

KEY PLAN: AREA OF WORK

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Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

ARCHITECTURAL

EDWARD J CUHACI & ASSOCIATES ARCHITECTS INC.

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- ARCHITECTURAL DRAWINGS - M2-5121 & M59-5123**
 A01- LEGEND, NOTES, WALL TYPES AND TYPICAL DETAILS
 A02 - ROOM FINISH AND DOOR SCHEDULE
 A03 - GROUND FLOOR REFLECTED CEILING PLANS
 A04 - MEZZANINE FLOOR PLANS
 A05 - MEZZANINE REFLECTED CEILING PLANS

MECHANICAL

GOODKEY WEEDMARK AND ASSOCIATES

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- MECHANICAL DRAWINGS**
 M1 - MECHANICAL DRAWING LIST, LEGENDS AND SCHEDULE
 M2 - M6 - GROUND FLOOR AND MEZZ WASHROOM PLUMBING DEMOLITION AND NEW WORK
 M3 - M6 - GROUND FLOOR AND MEZZ WASHROOM HVAC DEMOLITION AND NEW WORK

ELECTRICAL

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- ELECTRICAL DRAWINGS**
 E1 - ELECTRICAL LEGENDS, DRAWING LIST AND KEY PLANS
 E2 - SECOND FLOOR LIGHTING AND FIRE ALARM WORK
 E3 - SECOND FLOOR POWER AND SYSTEMS WORK

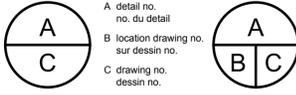
STRUCTURAL

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- STRUCTURAL DRAWINGS**
 S01 - GENERAL NOTES AND SPECIFICATIONS
 S02 - STRUCTURAL DETAILS

revisions	description	date
2	ISSUED FOR TENDER	2017/09/08
1	ISSUED FOR 99% REVIEW	2017/06/29



M6 WASHROOM RENOVATION

LIST OF DRAWINGS

Designed By	J.V.D. / J.J.	Conçu par	
Date	2016 03 04	(yyyy/mm/dd)	
Drawn By	A.W.	Dessiné par	
Date	2016 03 07	(yyyy/mm/dd)	
Reviewed By	J.J.	Examiné par	
Date	2016 03 09	(yyyy/mm/dd)	
Approved By	BRANDON LALONDE	Approuvé par	
Date	2016 06 22	(yyyy/mm/dd)	
Tender	ISABELLE D'AMOUR TANGUAY	Soumission	
Project Manager		Administrateur de projets	
W.O. no.		D.T. no.	

A1-010981-01

Drawing no. **5122-CS1** No. du dessin

TYPICAL GENERAL NOTES	
1.	ALL WALLS AND PARTITIONS SHALL EXTEND FROM FLOOR SLAB TO UNDER SIDE FLOOR SLAB ABOVE. ALLOW FOR FLOOR DEFLECTION. PACK TOP OF EACH WALL AND FLOOR SLAB WITH FIRE STOPPING ULC ASSEMBLY.
2.	INCREASE WALL THICKNESS LOCALLY FOR FULL HEIGHT OF WALL TO SUIT INSTALLATION OF MECHANICAL, ELECTRICAL, AND STRUCTURAL WORK.
3.	IN ADDITION TO SPECIFIC LOCATIONS IDENTIFIED BY "DRAWING NOTES" OR ELSEWHERE SHOWN OR NOTED ON DRAWINGS, WALLS AND PARTITIONS SHALL BE CONSTRUCTED OVER AND UNDER ALL OPENINGS FOR DOORS, WINDOWS, GLAZED METAL SCREENS, AND OPENINGS FOR MECHANICAL, ELECTRICAL AND STRUCTURAL ITEMS EQUAL TO THAT OF WALL CONSTRUCTION SHOWN ON EITHER SIDE OF OPENING. PROVIDE LINTELS TO SUIT OPENINGS.
4.	CO-ORDINATE AND ESTABLISH ON SITE THE EXACT LOCATION OF ALL OPENINGS IN WALLS PRIOR TO CONSTRUCTION. SEE ALSO MECHANICAL AND ELECTRICAL DOCUMENTS.
5.	IN THE EVENT OF DISCREPANCIES IN THE QUANTITY AND TYPE OF MECHANICAL, ELECTRICAL ITEMS, TO BE INCORPORATED, MECHANICAL AND ELECTRICAL DRAWINGS SHALL GOVERN. REFER ALSO TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR OTHER ITEMS TO BE INCORPORATED BUT NOT SHOWN ON ARCHITECTURAL DRAWINGS.
6.	ALL DIMENSIONS ARE TO FACE OF FINISH WALL UNLESS OTHERWISE NOTED.
7.	REPAIR AND MAKE GOOD EXISTING FLOOR, WALL AND CEILING FINISHES IN AREAS OF NEW WORK.

ABBREVIATIONS	
ATT	ALUMINUM FLOOR TRANSITION TRIM AT DOOR, LOCATE AT CENTRE OF DOOR
BFD	BARRIER FREE STALL DOOR, 900mm WIDE WITH SPRING TYPE OR GRAVITY HINGES WITH AUTOMATIC CLOSING. PULL ON BOTH SIDES NEAR LATCH, BOTTOM AT 900mm ABOVE FINISHED FLOOR.
BFS	BARRIER FREE WALL HUNG SINK
CH	COAT HOOK TYPE 1
CH2	COAT HOOK TYPE 2
CRB	100mm WIDE X 100mm HIGH CAST IN PLACE DOWELED IN CONCRETE CURB;
CS	STAINLESS STEEL CORNER SHELF
FD	FLOOR DRAIN
GB	SURFACE MOUNTED WASTE RECEPTACLE
HAN	42.2mm DIAM. X 3.18 STEEL HANDRAIL
HD	ELECTRIC HAND DRYER
HGB-1	HORIZONTAL GRAB BAR 1220mm LONG (48")
HGB-2	HORIZONTAL GRAB BAR 610mm LONG (24")
HGB-3	"L" SHAPE GRAB BAR MIN 760mm VERTICAL AND HORIZONTAL COMPONENT
MBT	MARBLE THRESHOLD 100mm WIDE WITH 12mm HIGH BEVELLED PROFILE; REFER TO DETAIL 5/A011
MIR	MIRROR 18" X 36"
MSH	MIRROR SHELF 18" LONG
MTC	METAL TOILET COMPARTMENT
MTCB	METAL TOILET COMPARTMENT DOOR
PTD	WALL MOUNTED PAPER TOWEL DISPENSER
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SDB	SHOWER DRESSING BENCH (SOLID PHENOLIC)
SFSB-C	BARRIER FREE SHOWER FIXTURE WITH VERTICAL SLIDING BAR AND SHOWER CONTROL WALL SHOWER HEAD
SH	SURFACE MOUNTED SOAP HOLDER
SS	SHOWER STALL UNIT REFER TO SPECIFICATIONS
ST	SOLID PHENOLIC OVERHEAD BRACED PARTITION
SPP	SOLID PHENOLIC PARTITION DOOR
SPPD	SOLID PHENOLIC PARTITION DOOR
SPUS	SOLID PHENOLIC URINAL SCREEN, WALL SCREEN 42" HIGH
TPD	TOILET PAPER DISPENSER
TMIR	TILTED MIRROR 18" X 36"
VGB-1	VERTICAL GRAB BAR 915mm LONG (36")
VGB-2	VERTICAL GRAB BAR 1220mm LONG (48")
VGB-3	VERTICAL GRAB BAR 610mm LONG (24")

TYPICAL DRAWING SYMBOLS	
GRAPHIC	DESCRIPTION
	VIEW NUMBER
	SHEET NUMBER
	DETAIL SECTION REFERENCE
	PLAN DETAIL REFERENCE
	DETAIL TITLE SCALE
	ELEVATION DATUM POINT
	ROOM NAME AND NUMBER
	NEW DOOR, HARDWARE AND FRAME
	EXISTING DOOR AND FRAME TO REMAIN
	DOOR NUMBER
	WINDOW NUMBER
	WALL FLAGS
	INTERIOR STUD
	INTERIOR CONCRETE
	INTERIOR MASONRY
	FLOOR DRAIN
	RECESSED FIRE EXTINGUISHER CABINET
	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
	AUTOMATIC DOOR OPENER

INTERIOR WALL TYPES		
WALL TYPE	ENLARGED GRAPHIC REPRESENTATION	DESCRIPTION
IS1 IS1*		16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD 92 METAL STUDS SOUND ATTENUATION BATT 16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD IS1* SEE TYPICAL NOTE BELOW
IS2 IS2*		16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD 152 METAL STUDS SOUND ATTENUATION BATT IS2* SEE TYPICAL NOTE BELOW
IS3 IS3*		16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD 152 METAL STUDS SOUND ATTENUATION BATT 16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD IS3* SEE TYPICAL NOTE BELOW
IS4 IS4*		16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD 152 METAL STUDS SOUND ATTENUATION BATT IS4* SEE TYPICAL NOTE BELOW
IS5 IS5*		16 TYPE "X" ABUSE RESISTANT GYPSUM BOARD 92 METAL STUDS SOUND ATTENUATION BATT IS5* SEE TYPICAL NOTE BELOW
IM1 IM1*		16mm TYPE "X" ABUSE RESISTANT GYPSUM BOARD 22mm STEEL FURRING AT 400 O.C. EXISTING MASONRY WALL IM1* SEE TYPICAL NOTE BELOW
FLOOR ASSEMBLY TYPES		
ULC BXUV.M511		24 GAUGE GALVANIZED SHEET METAL CLADDING SET IN FULL-BED OF CONSTRUCTION ADHESIVE FASTENED TO TONGUE AND GROOVE PLYWOOD FASTENED WITH ROUND HEAD STAINLESS STEEL SCREWS 19 TONGUE AND GROOVE PLYWOOD - PAINT FINISH 254 METAL STUD JOISTS @ 406 O.C. C/W METAL JOIST BLOCKING OR BRIDGING @ 1930 O.C. MAX. FILL WITH SOUND ATTENUATION BATT INSULATION 13 RESILIENT CHANNELS @ 300 O.C. MAX. 16 MOISTURE RESISTANT GYPSUM BOARD
FT1		

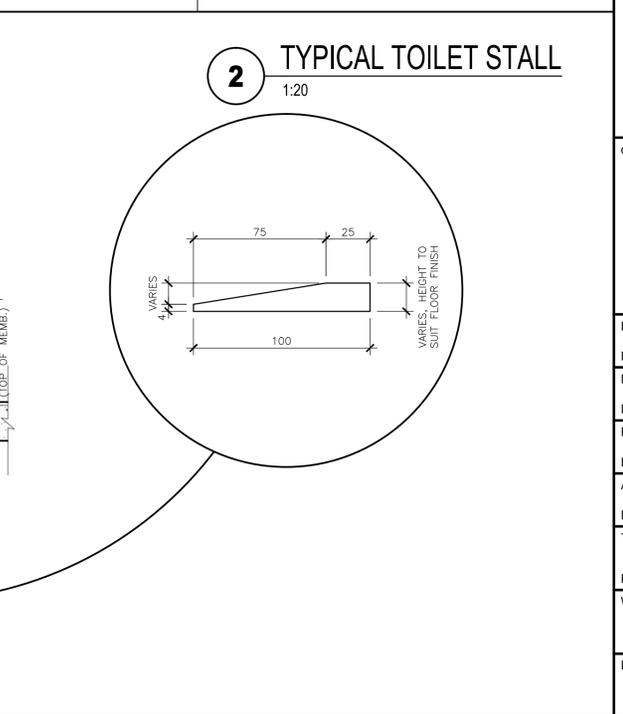
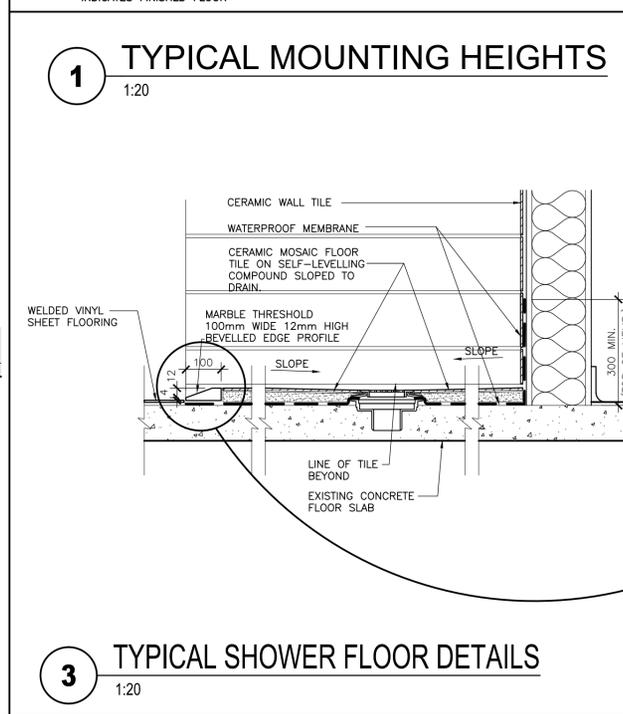
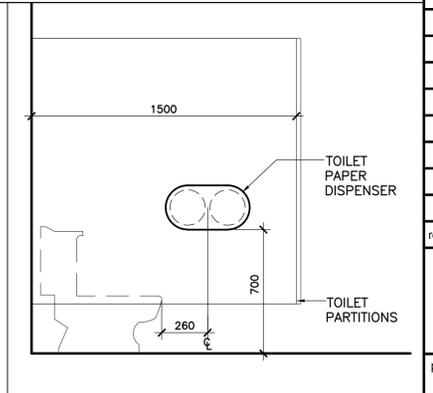
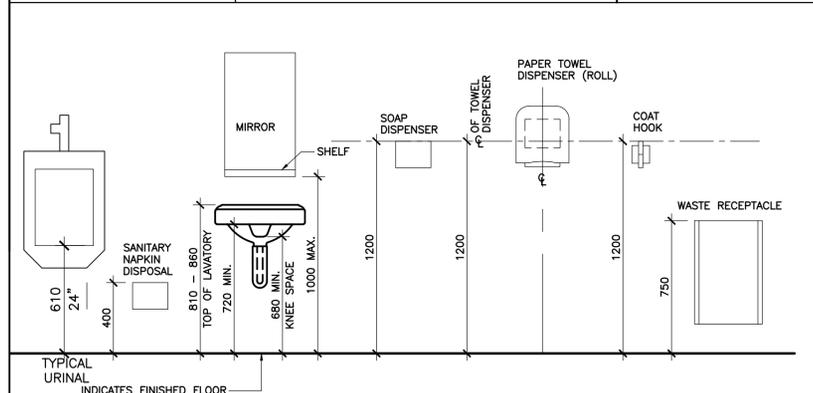
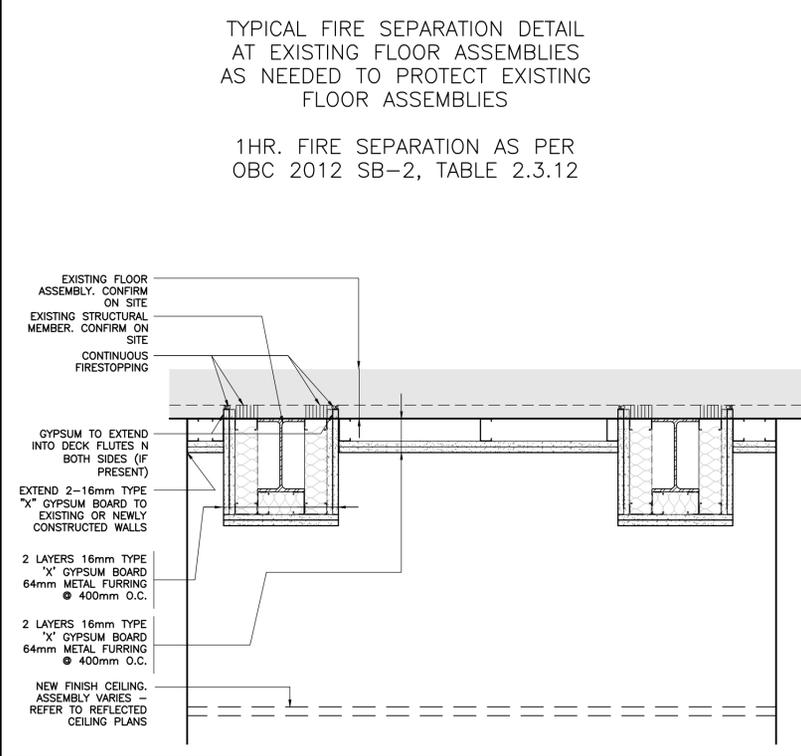
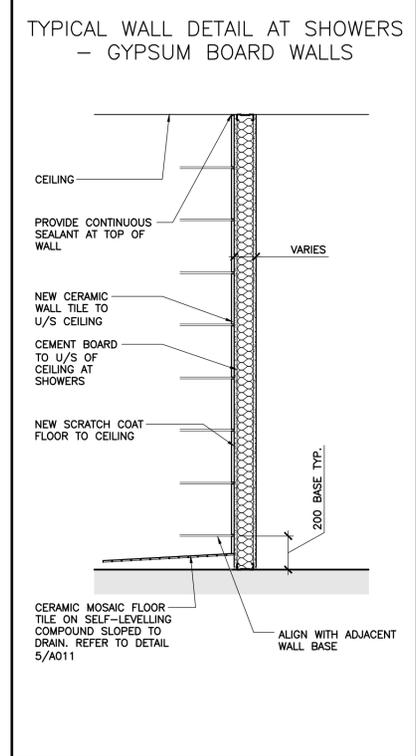
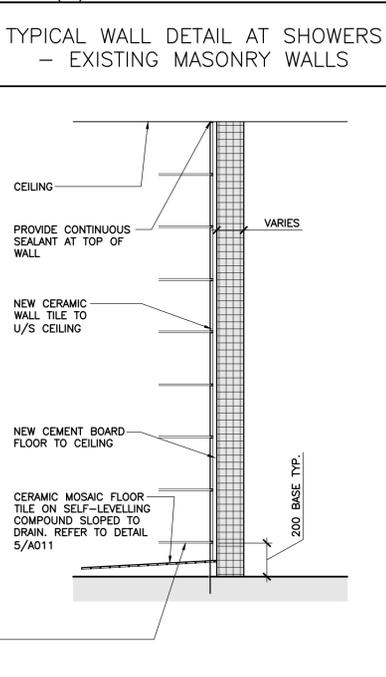
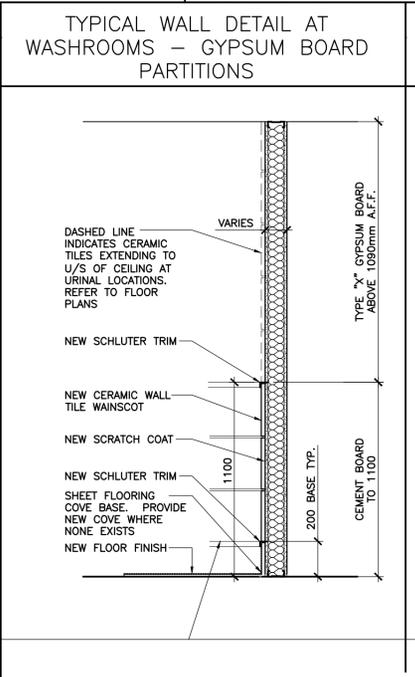
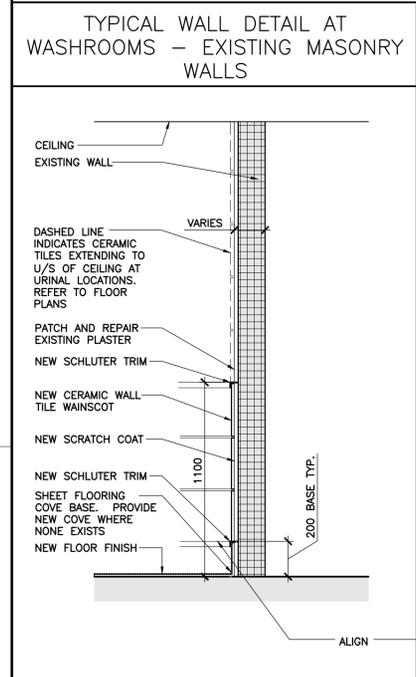
National Research Council Canada / Conseil national de recherches Canada
Administrative Services and Property Management Branch / Division des services administratifs et gestion de l'immobilier

NRC-CNRC

KEY PLAN: AREA OF WORK NTS

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Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.



revisions	description	date
2	ISSUED FOR TENDER	2017/09/08
1	ISSUED FOR 99% REVIEW	2017/06/29

A detail no. du detail
 B location drawing no. sur dessin no.
 C drawing no. dessin no.

project M6 WASHROOM RENOVATION projet

drawing 5122-A01 dessin

LEGEND, NOTES, WALL TYPES, AND TYPICAL DETAILS

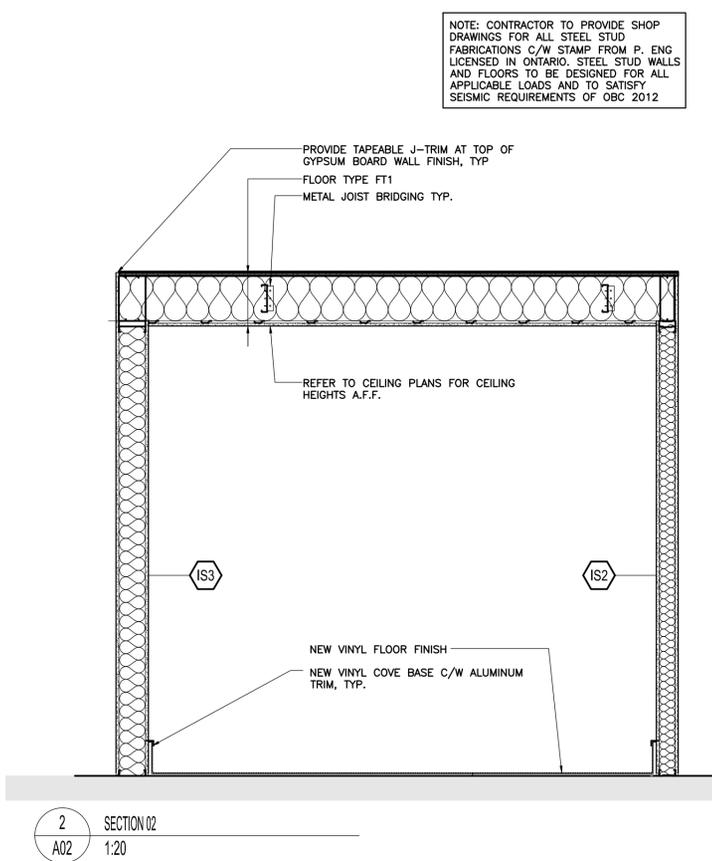
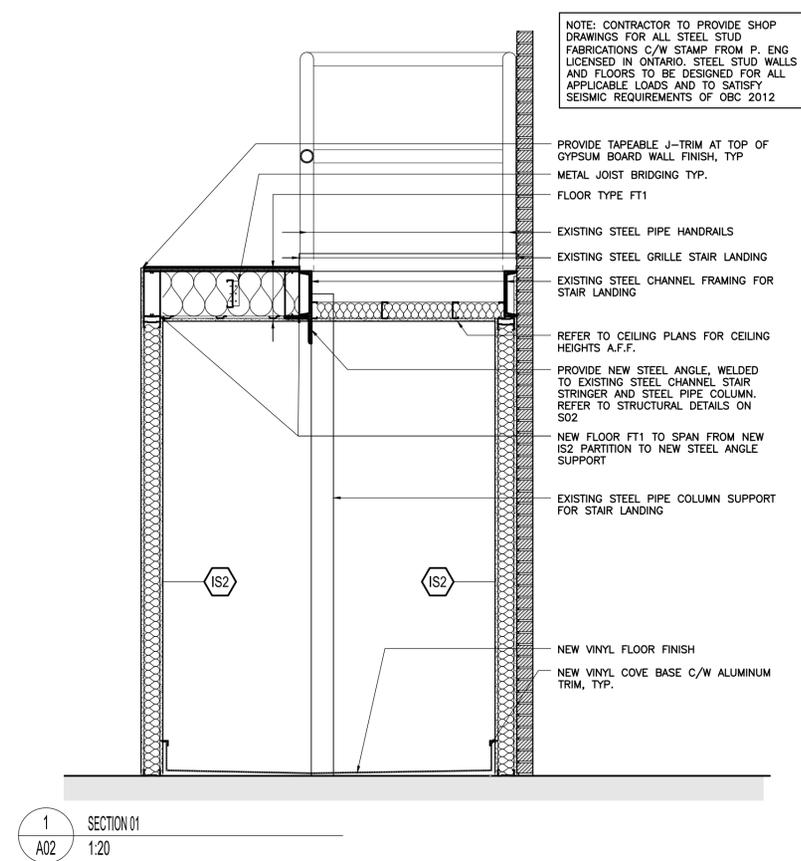
Designed By	J.V.D. / J.J.	Conçu par	
Date	2016 03 04	(yyyy/mm/dd)	
Drawn By	A.W.	Dessiné par	
Date	2016 03 07	(yyyy/mm/dd)	
Reviewed By	J.J.	Examiné par	
Date	2016 03 09	(yyyy/mm/dd)	
Approved By	BRANDON LALONDE	Approuvé par	
Date	2016 06 22	(yyyy/mm/dd)	
Tender	ISABELLE D'AMOUR TANGUAY	Soumission	
Project Manager		Administrateur de projets	
W.O. no.	A1-010981-01	D.T. no.	
Drawing no.	5122-A01	No. du dessin	

ROOM FINISH SCHEDULE (BUILDING M6)

BLDG	LOCATION	FLOOR	WALL	CEILING	REMARKS				
NO.	ROOM NO.	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
M6	106	-	-	EGB GB	P	EGB GB	P	-	GN-1, GN-2
M6	110	-	-	EGB GB	P	AT	-	-	GN-1, GN-2, GN-6
M6	112	-	-	EC EB	P	EC	P	-	GN-1, GN-2
M6	114	-	-	EC EB	P	EC	P	-	GN-1, GN-2
M6	117	-	-	EC EB	P	EC	P	-	GN-1, GN-2
M6	208	-	R	EGB GB	P	-	-	-	GN-1
M6	209A	SF	SFCB	EGB GB	P CT	GB	P	-	GN-1, GN-2, GN-3
M6	209B	SF CT	SFCB	EGB GB	P CT	GB	P	-	GN-1, GN-2, GN-3
M6	209C	SF	SFCB	GB	P	GB	P	-	GN-2, GN-3

REMARKS:
 GN-1 REPAIR AND MAKE GOOD EXISTING WALLS, FLOOR, AND CEILING FINISHES.
 GN-2 PAINT ALL EXPOSED ELECTRICAL AND MECHANICAL WORK, PAINT MATTE FINISH.
 GN-3 PAINT NEW DOOR AND FRAME.
 GN-4 NOT USED.
 GN-5 PAINT ALL ELECTRICAL AND MECHANICAL WORK ABOVE.
 GN-6 PAINT ALL EXISTING DOOR FRAMES

ROOM FINISH SCHEDULE ABBREVIATIONS:
 AT NEW ACOUSTICAL TILE AND T-BAR SYSTEM
 CB CONCRETE BLOCK
 CT CERAMIC FLOOR OR WALL TILE
 EAT EXISTING ACOUSTICAL TILE
 EB EXISTING BRICK
 EC EXISTING CONCRETE
 ECB EXISTING CONCRETE BLOCK
 ECONCF EXISTING CONCRETE FLOOR
 ECT EXISTING CERAMIC FLOOR OR WALL TILE
 EGB EXISTING GYPSUM BOARD
 ET EXISTING TERRAZZO FLOOR
 ETB EXISTING TERRAZZO FLOOR BASE
 EXVCT EXISTING VINYL COMPOSITE TILE
 EXP EXISTING PLASTER WALL
 ER EXISTING RUBBER BASE
 GB GYPSUM BOARD
 P PAINT SATIN FINISH
 R RUBBER BASE
 RT RUBBER STAIR TREADS
 SF WELDED VINYL SHEET FLOORING
 VCT VINYL COMPOSITE TILE
 SFCB WELDED VINYL SHEET FLOORING COVE BASE



NRC - CNRC
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KEY PLAN: AREA OF WORK
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Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

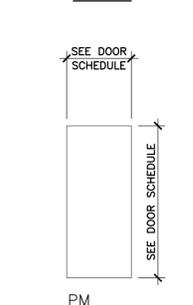
DOOR SCHEDULE

BLDG#	DOOR#	FROM	TO	HEAD	JAMB	TYPE	DEPTH	TYPE	WIDTH	HEIGHT	THICKNESS	ULC LABEL	REMARKS
M6	209A	208	209A	GB	GB	PM	184	PM	915	2150	45	-	SC, KP, FS, PP, DS, WS
M6	209B	209B	209A	GB	GB	PM	184	PM	915	2150	45	-	SC, KP, FS, PP, DS, 12X18 GRILLE
M6	209C	208	209C	GB	GB	PM	184	PM	830	2150	45	-	SC, KP, FS, PP, DS, WS
M6	209D	209D	209C	GB	GB	PM	184	PM	830	2150	45	-	SC, KP, FS, PP, DS, DB, 12X18 GRILLE

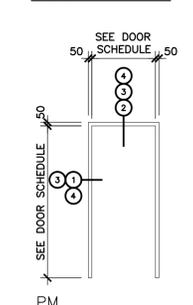
DOOR ABBREVIATIONS:
 ADO AUTOMATIC DOOR OPERATOR -
 BS BOTTOM SEAL
 C CONCRETE
 CB NEW CONCRETE BLOCK
 CBL NEW CONCRETE BLOCK LINTEL
 DB DEAD-BOLT W/ OCCUPIED/VACANT INDICATOR
 DS WASHROOM DOOR SIGNAGE- MOUNT AT 1600 AFF. ALL TEXT TO INCLUDE ENGLISH, FRENCH AND BRAILLE WRITING. TRIMCO MODEL NO'S 507 (MALE) AND 508 (FEMALE)
 EC EXISTING CONCRETE
 EX EXISTING
 EXM EXISTING MASONRY
 GB GYPSUM BOARD
 GL 12mm TEMPERED GLASS DOOR, SEE SPECIFICATIONS FOR DOOR HARDWARE
 KP KICK PLATE
 LS LOCKSET
 PM PRESSED STEEL
 PP PUSH AND PULL
 SC SELF CLOSING DEVICE
 TS ALUMINUM THRESHOLD
 OS OVERHEAD STOP
 FS FLOOR STOP
 WS WEATHER STRIPPING

ULC LABELLING/FIRE RATING:
 C 45 MINUTES
 D 90 MINUTES

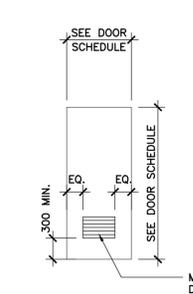
HOLLOW METAL DOOR



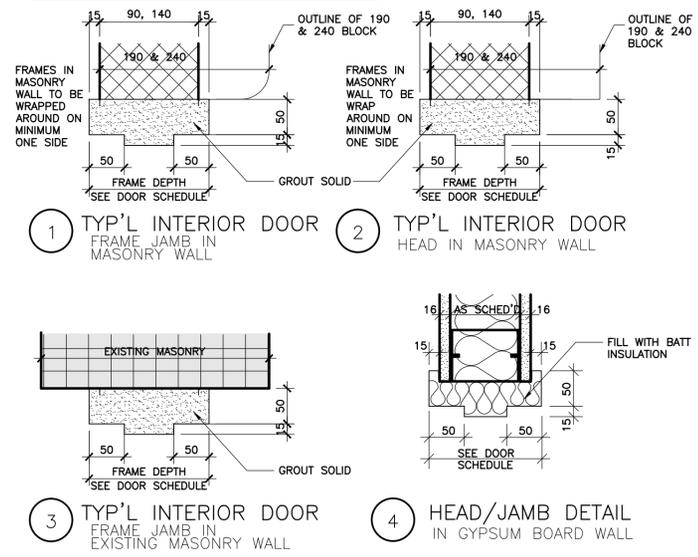
PRESSED STEEL DOOR FRAME



TYPICAL GRILLE DETAIL



PRESSED METAL FRAME DETAILS



2	ISSUED FOR TENDER	2017/09/08
1	ISSUED FOR 99% REVIEW	2017/06/29
revisions	description	date

project: M6 WASHROOM RENOVATION
 1200 Montreal Road, Ottawa, ON

drawing: ROOM FINISH & DOOR SCHEDULE SECTIONS

Designed By	J.V.D. / J.J.	Conçu par
Date	2016 03 04	(yyyy/mm/dd)
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Tender	ISABELLE D'AMOUR TANGUAY	Soumission
Project Manager	PROJECT_MAN	Administrateur de projets
W.O. no.	A1-010981-01	D.T. no.
Drawing no.	5122-A02	No. du dessin

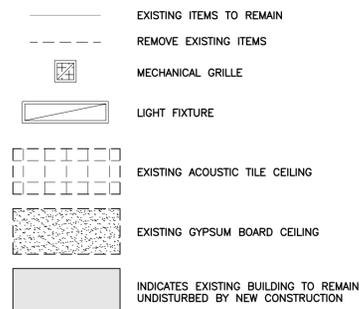
TYPICAL REFLECTED CEILING PLAN NOTES

1. IN THE EVENT OF DISCREPANCIES FOR THE LOCATION OF MECHANICAL OR ELECTRICAL ITEMS TO BE INCORPORATED, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
2. REFLECTED CEILING PLANS ARE TO BE READ IN CONJUNCTION WITH DETAILS AND INFORMATION SHOWN ELSEWHERE ON DRAWINGS. IN THE EVENT OF DISCREPANCIES THE MORE STRINGENT REQUIREMENT SHALL GOVERN (FOR EXAMPLE: DRYWALL BULKHEADS SHOWN ON REFLECTED CEILING PLANS MAY NOT APPEAR ON BUILDING SECTIONS BUT ARE REQUIRED TO BE INCORPORATED).
3. SEE FLOOR PLANS FOR ADDITIONAL TYPICAL NOTES.
4. COORDINATE LOCATION OF ACCESS DOORS WITH MECHANICAL TRADES TO PERMIT ACCESS TO EQUIPMENT BEHIND HARD SURFACES. ACCESS DOORS SUPPLIED BY MECHANICAL.

DEMOLITION NOTES - CEILING PLAN

- 1 REMOVE EXISTING GYPSUM BOARD OR PLASTER CEILING, INCLUDING ASSOCIATED SUSPENSION SYSTEM. REMOVE LOOSE DEBRIS ABOVE AS REQUIRED TO FACILITATE NEW WORK. PROVIDE TEMPORARY SUPPORT AS REQUIRED
- 2 REMOVE EXISTING ACOUSTICAL TILE CEILING AND ASSOCIATED SUSPENSION SYSTEM. REMOVE PLASTER CEILING ABOVE. REMOVE ALL LOOSE DEBRIS IN CEILING SPACE TO FACILITATE NEW WORK
- 3 PROVIDE OPENING IN MASONRY WALL ABOVE AS REQUIRED FOR NEW MECHANICAL PIPING. REFER TO MECHANICAL. PATCH REPAIR AND MAKE GOOD WALL, INCLUDING PAINT FINISH TO MATCH ADJACENT EXISTING
- 4 REMOVE EXISTING GYPSUM/ PLASTER CEILING. REMOVE LOOSE DEBRIS ABOVE AS REQUIRED TO FACILITATE NEW WORK. PROVIDE TEMPORARY SUPPORT AS REQUIRED
- 5 CORE EXISTING FLOOR SLAB ABOVE AS REQUIRED FOR NEW MECHANICAL PIPING. REFER TO MECHANICAL. FIRESTOP AND SEAL ALL PENETRATIONS AFTER MECHANICAL INSTALLATIONS COMPLETED
- 6 REMOVE GYPSUM BOARD AND CERAMIC WALL FINISH AS REQUIRED TO COMPLETE NEW MECHANICAL PIPING INSTALLATIONS
- 7 REMOVE EXISTING CONCRETE SLAB INFILL. PREPARE OPENING FOR INFILL AS PER STRUCTURAL DETAILS ON S02. REFER TO STRUCTURAL

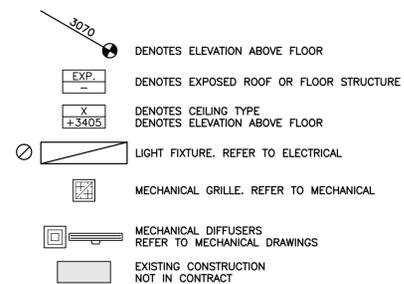
REFLECTED CEILING PLANS DEMOLITION LEGEND



CEILING TYPE SCHEDULE

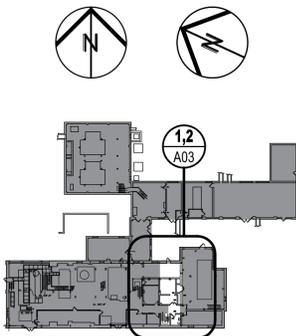
CEILING TYPE	INDICATION	DESCRIPTION
A		16mm SUSPENDED MOISTURE RESISTANT GYPSUM BOARD CEILING
B		2' X 4' (610mm X 1220mm) SUSPENDED ACOUSTICAL TILES CEILING
C		16mm SUSPENDED GYPSUM BOARD CEILING OR BULKHEAD

REFLECTED CEILING PLAN LEGEND



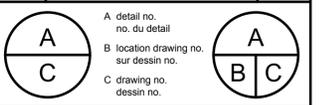
DRAWING NOTES

- 1 16mm GYPSUM BOARD BULKHEAD
- 2 COORDINATE NEW CONSTRUCTION WITH EXISTING MECHANICAL EQUIPMENT, PIPES AND DUCTS. MAINTAIN REQUIRED ACCESS TO MECHANICAL VALVES
- 3 EXISTING STAIR TO REMAIN
- 4 EXISTING LADDER TO REMAIN
- 5 HIGH WALL WITH 16mm MOISTURE RESISTANT GYPSUM BOARD
- 6 INSTALL NEW GYPSUM BOARD CEILING ON STEEL STUD SUSPENSION SYSTEM. HEIGHT TO MATCH ADJACENT GYPSUM/ PLASTER CEILING
- 7 RADIANT HEAT PANEL. REFER TO MECHANICAL
- 8 REPLACE DEMOLISHED SUSPENDED PLASTER OR GYPSUM BOARD CEILING WITH GYPSUM BOARD CEILING AND ASSOCIATED SUSPENSION SYSTEM
- 9 CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS OF STEEL STUD CEILING ASSEMBLY. ALL STEEL STUD FRAMING TO BE DESIGNED TO MEET SEISMIC REQUIREMENTS OF OBC 2012
- 10 REINSTATE FIREPROOFING ON STEEL STRUCTURE SUPPORTING MEZZANINE FLOOR SLAB. REFER TO TYPICAL FIREPROOFING DETAIL ON A010
- 11 PROVIDE NEW GYPSUM BOARD AND CERAMIC TILE WALL FINISH TO MATCH ADJACENT EXISTING
- 12 PATCH REPAIR AND MAKE GOOD TRANSITION TO EXISTING GYPSUM BOARD / PLASTER CEILING. PAINT TO MATCH EXISTING
- 13 NEW ACOUSTICAL TILE CEILING TO BE INSTALLED AT HEIGHT OF DEMOLISHED ACOUSTICAL TILE CEILING. PATCH REPAIR AND MAKE GOOD ADJACENT DAMAGED FINISHES.
- 14 INFILL EXISTING CONCRETE SLAB AS PER STRUCTURAL DETAILS ON S02. REFER TO STRUCTURAL



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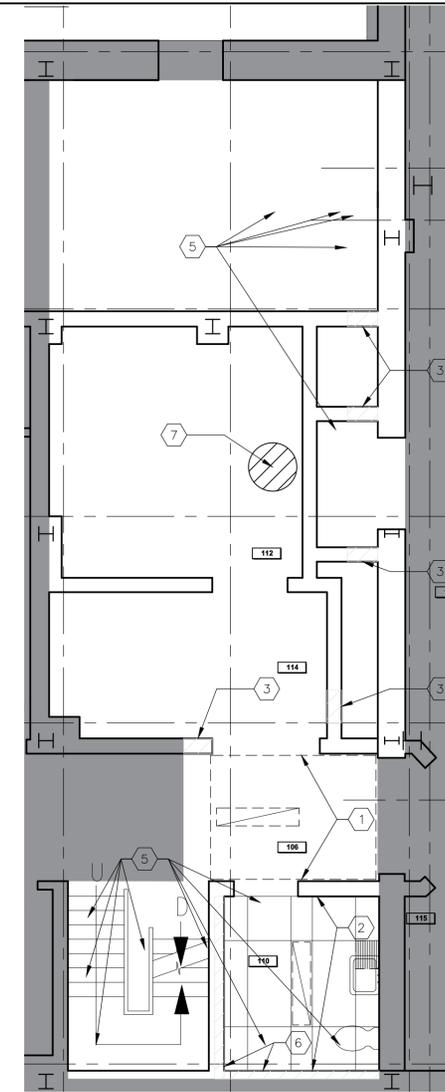
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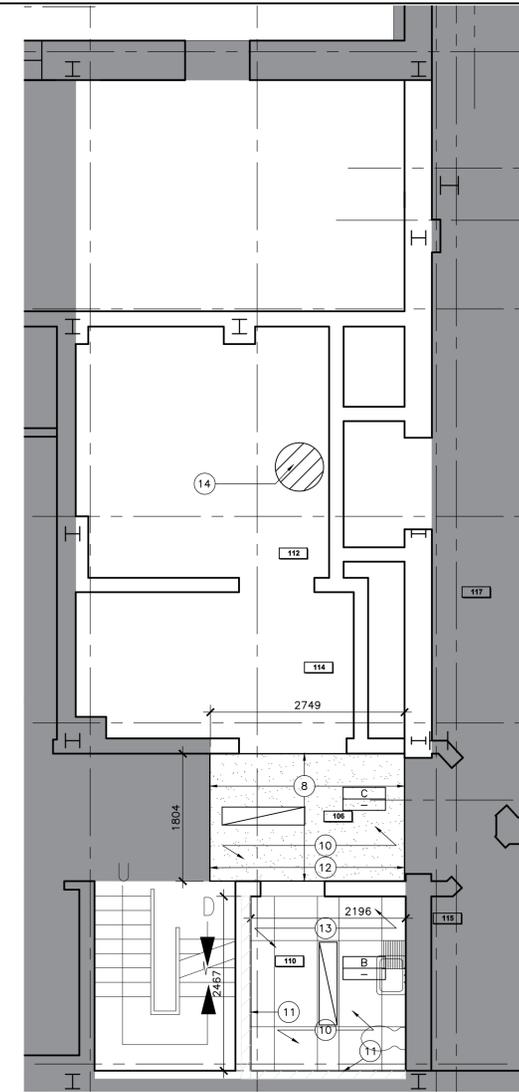
project / projet
M6 WASHROOM RENOVATION
 PROJECT_ADDRESS
 drawing / dessin

Designed By	DESIGNED_BY	Conçu par
Date	DATE_DESIGNED	(yyyy/mm/dd)
Drawn By	J.V.D.	Dessiné par
Date	2016 04 08	(yyyy/mm/dd)
Reviewed By	REVIEWED_BY	Examiné par
Date	DATE_REVIEWED	(yyyy/mm/dd)
Approved By	APPROVED_BY	Approuvé par
Date	DATE_APPROVED	(yyyy/mm/dd)
Tender	TENDER	Soumission
Project Manager	PROJECT_MAN	Administrateur de projets

W.O. no. / D.T. no.
A1-010981-01
 Drawing no. / No. du dessin
5122-A03



1 GROUND FLOOR CEILING PLAN - DEMOLITION
 1:20



2 GROUND FLOOR CEILING PLAN - NEW WORK
 1:20

GENERAL DEMOLITION NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS OF NEW WORK.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
- WHERE NEW OPENINGS ARE TO BE PROVIDED IN EXISTING WALL OR FLOOR ASSEMBLIES, OR EXISTING OPENINGS ARE TO BE FILLED IN, REPAIRS AND INFILL MATERIAL SHALL MATCH EXISTING WALL CONSTRUCTION IN DETAIL, MATERIAL THICKNESS AND FINISHES. IN FIRE-RATED FLOOR OR WALL ASSEMBLIES NEW INFILL ASSEMBLY SHALL COMPLY WITH FIRE-RATING AND ULC REQUIREMENTS.
- WALLS INDICATED FOR DEMOLITION SHALL BE DEMOLISHED TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED. PATCH AND MAKE GOOD ALL SURFACES AFFECTED BY WORK.

DRAWING NOTES

- EXISTING LADDER TO REMAIN.
- COORDINATE LOCATION OF ACCESS DOORS WITH MECHANICAL TRADES TO PERMIT ACCESS TO EQUIPMENT BEHIND GYPSUM BOARD OR PLASTER SURFACES. ACCESS DOORS SUPPLIED BY MECHANICAL.
- REINSTATE LOCKERS. PROVIDE NEW 14 GA. STEEL "Z" - BASE, POWDER COATED TO MATCH EXISTING LOCKERS.
- PROVIDE NEW VINYL COMPOSITE TILE FLOORING TO MATCH EXISTING.
- PROVIDE NEW RUBBER BASE TO MATCH EXISTING.
- NEW WALL THICKNESS TO MATCH EXISTING ADJACENT WALL.
- PATCH REPAIR AND MAKE GOOD EXISTING WALL AND/OR DOOR AND/OR FRAME FINISH TO RECEIVE NEW PAINT FINISH.
- REINSTATE FIREPROOFING ON STEEL STRUCTURE SUPPORTING MEZZANINE FLOOR SLAB. REFER TO TYPICAL FIREPROOFING DETAIL ON A010
- INSTALL NEW T-BAR CEILING, LAYOUT AND HEIGHT TO MATCH DEMOLISHED CEILING.
- INSTALL NEW GYPSUM BOARD CEILING ON STEEL STUD SUSPENSION SYSTEM. HEIGHT TO MATCH ADJACENT GYPSUM/ PLASTER CEILING.
- EXTEND NEW GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STAIR.
- PROVIDE NEW FILLER PANELS AND END PANELS AS REQUIRED FOR REINSTATED LOCKER LAYOUTS SHOWN. REFER TO SPECIFICATIONS.

DEMOLITION NOTES - FLOOR PLAN

- REMOVE ALL EXISTING WASHROOM STALL PARTITIONS.
- REMOVE EXISTING WALL MOUNTED MIRROR.
- NOT USED
- REMOVE ALL EXISTING STEEL LOCKERS. RETAIN FOR REINSTATEMENT AT NEW LOCATIONS SHOWN ON DRAWINGS
- REMOVE EXISTING BENCHES.
- REMOVE EXISTING SOAP DISPENSERS.
- REMOVE EXISTING TILE WALL FINISH FROM ALL WALLS. WINDOW SILLS AND WINDOW JAMBS THROUGHOUT ROOM AND PATCH AND MAKE GOOD EXISTING SUBSTRATE WALL TO RECEIVE NEW TILE.
- CONSTRUCT TEMPORARY 6mil POLY DUST / CONSTRUCTION DROP SHEET BARRIER AROUND EXISTING DOORWAY. BARRIER IS TO BE SEALED ON ALL SIDES AS TO PREVENT ANY DUST FROM REACHING OTHER AREAS OF THE BUILDING. INSTALL ACCESS DOORWAY USING HEAVY DUTY ZIPWALL ZIPPERS. REFER TO SPECIFICATIONS.
- EXISTING VINYL COMPOSITE TILE FLOORING THROUGHOUT TO BE REMOVED. REMOVE FLOOR AND WALL BASE THROUGHOUT. CONCRETE SLAB BENEATH TO BE PATCHED AND MADE GOOD AND PREPARED TO RECEIVE NEW WELDED VINYL FLOORING. PROVIDE SELF-LEVELLING SUB-BASE
- EXISTING CERAMIC TILE FLOORING THROUGHOUT TO BE REMOVED. CONCRETE SLAB BENEATH TO BE PATCHED AND MADE GOOD AND PREPARED TO RECEIVE NEW WELDED VINYL FLOORING. PROVIDE SELF-LEVELLING SUB-BASE
- REMOVE EXISTING CERAMIC TILE RAISED CONCRETE FLOOR PODIUM AND WAJNSCOT AT URINALS. PATCH AND MAKE GOOD EXISTING FLOOR TO RECEIVE NEW FLOORING. PROVIDE SELF-LEVELLING SUB-BASE WHERE AND AS REQUIRED.
- REMOVE EXISTING GYPSUM BOARD WALL IN FULL HEIGHT.
- REMOVE MARBLE THRESHOLD.
- BREAK OUT EXISTING MASONRY WALL AS NEEDED TO GAIN ACCESS TO INSTALL NEW PLUMBING. DO NOT PUNCTURE BACK FACE OF WALL DURING DEMOLITION. COORDINATE W/ NEW CONSTRUCTION
- REMOVE EXISTING LOW WALL, INCLUDING TILE FINISH. PATCH AND MAKE GOOD EXISTING MASONRY WALL TO RECEIVE NEW TILE.
- REMOVE EXISTING DOOR, FRAME AND THRESHOLD. REMOVE EXISTING WALL ASSEMBLY ON EITHER SIDE OF DOOR FRAME AS NEEDED FOR FRAME REMOVAL AND INSTALLATION OF NEW DOOR FRAME.
- REMOVE EXISTING PLASTIC LAMINATE WAJNSCOT/ BACKSPLASH
- REMOVE EXISTING TILE WAJNSCOT AND GYPSUM BOARD FINISH FROM INTERIOR SIDE OF EXISTING PARTITION ONLY
- EXISTING STORAGE TANK TO BE REMOVED. RETAIN FOR REINSTALLATION
- PATCH EXISTING CONCRETE FLOOR SLABS (MEZZANINE FLOOR SLAB AND FLOOR SLAB FOR INTERSTITIAL FLOOR SPACE BELOW). REFER TO STRUCTURAL DETAILS ON S02
- EXISTING STAIR AND SUPPORTING STEEL STRUCTURE TO REMAIN

ABBREVIATIONS

ATT ALUMINUM FLOOR TRANSITION TRIM AT DOOR. LOCATE AT CENTRE OF DOOR
 BFD BARRIER FREE STALL DOOR, 900mm WIDE WITH SPRING TYPE OR GRAVITY HINGES WITH AUTOMATIC CLOSING. PULL ON BOTH SIDES NEAR LATCH, BOTTOM AT 900mm ABOVE FINISHED FLOOR.
 BFS BARRIER FREE WALL HUNG SINK
 CH COAT HOOK TYPE 1
 CH2 COAT HOOK TYPE 2
 CRB 100mm WIDE X 100mm HIGH CAST IN PLACE DOWELED IN CONCRETE CURB; REFER TO DETAIL 6/A011
 CS STAINLESS STEEL CORNER SHELF
 FD FLOOR DRAIN
 GB SURFACE MOUNTED WASTE RECEPTACLE
 HAN 42.2mm DIAM. X 3.18 STEEL HANDRAIL
 HD ELECTRIC HAND DRYER
 HGB-1 HORIZONTAL GRAB BAR 1220mm LONG (48")
 HGB-2 HORIZONTAL GRAB BAR 610mm LONG (24")
 HGB-3 'L' SHAPE GRAB BAR MIN 760mm VERTICAL AND HORIZONTAL COMPONENT
 MBT MARBLE THRESHOLD 100mm WIDE WITH 12mm HIGH BEVELED PROFILE; REFER TO DETAIL 5/A011
 MIR MIRROR 18" X 36"
 MSH MIRROR SHELF 18" LONG
 MTC METAL TOILET COMPARTMENT
 PTD WALL MOUNTED PAPER TOWEL DISPENSER
 SC SHOWER CURTAIN
 SD SOAP DISPENSER
 SDB SHOWER DRESSING BENCH (SOLID PHENOLIC)
 SFSB-C BARRIER FREE SHOWER FIXTURE WITH VERTICAL SLIDING BAR AND SHOWER CONTROL
 SH WALL SHOWER HEAD
 SS SURFACE MOUNTED SOAP HOLDER
 ST SHOWER STALL UNIT REFER TO SPECIFICATIONS
 SPP SOLID PHENOLIC OVERHEAD BRACED PARTITION
 SPPD SOLID PHENOLIC PARTITION DOOR
 SPUS SOLID PHENOLIC URINAL SCREEN, WALL SCREEN 42" HIGH
 TPD TOILET PAPER DISPENSER
 TMIR TILTED MIRROR 18" X 36"
 VGB-1 VERTICAL GRAB BAR 915mm LONG (36")
 VGB-2 VERTICAL GRAB BAR 1220mm LONG (48")
 VGB-3 VERTICAL GRAB BAR 610mm LONG (24")
 WMFSS WALL MOUNTED FOLDING SHOWER SEAT

LEGEND

INDICATES PORCELAIN MOSAIC TILES, WATERPROOFING MEMBRANE AND SELF-LEVELLING COMPOUND AS REQUIRED FOR SLOPE TO DRAIN

INDICATES EXISTING MASONRY WALL PATCH AND REPAIR AND MAKE GOOD AS REQUIRED FOR INSTALLATION OF NEW FINISH

INDICATES EXISTING BUILDING TO REMAIN UNDISTURBED BY NEW CONSTRUCTION

INDICATES WALL TILE CT-1 TO U/S OF CEILING. SEE TYPICAL DETAILS ON A010

INDICATES WALL TILE CT-1 1100 HIGH. SEE TYPICAL DETAILS ON A010

DEMOLITION LEGEND

EXISTING CONCRETE WALLS TO REMAIN

EXISTING CONCRETE BLOCK WALLS TO REMAIN

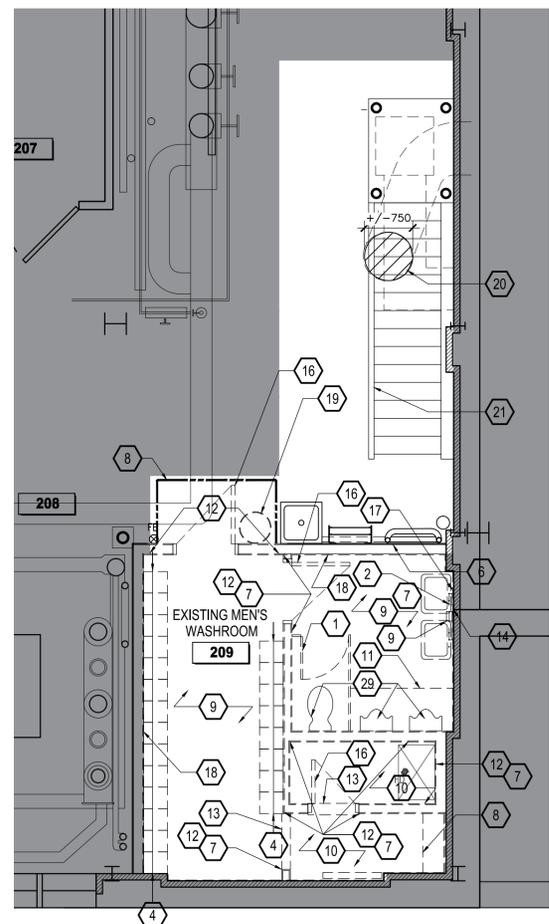
EXISTING BRICK WALLS TO REMAIN

REMOVE EXISTING WALL FROM FLOOR TO U/S OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE

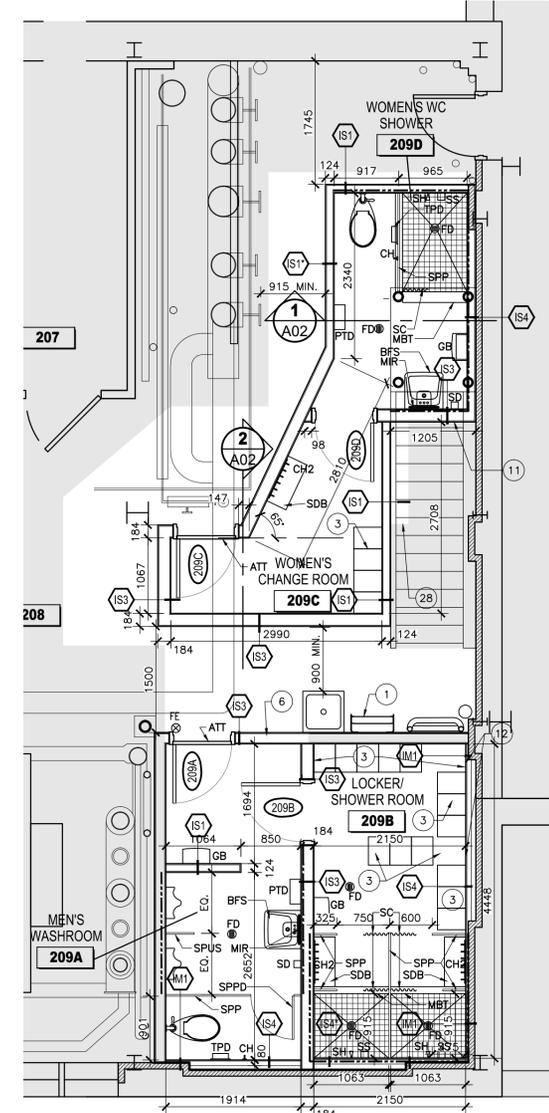
EXISTING DOOR TO REMAIN

REMOVE EXISTING DOOR, FRAME AND HARDWARE

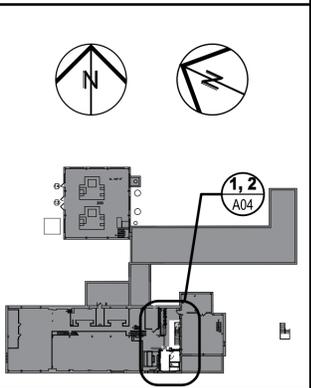
INDICATES EXISTING BUILDING TO REMAIN UNDISTURBED BY NEW CONSTRUCTION



1 MEZZANINE FLOOR PLAN - DEMOLITION
1:50



2 MEZZANINE FLOOR PLAN - NEW WORK
1:50



KEY PLAN: AREA OF WORK NTS

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
2	ISSUED FOR TENDER	2017/09/08
1	ISSUED FOR 99% REVIEW	2017/06/29

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project **M6 WASHROOM RENOVATION** projet

PROJECT_ADDRESS

drawing **MEZZANINE FLOOR PLANS** dessin

Designed By	DESIGNED_BY	Conçu par
Date	DATE_DESIGNED	(yyyy/mm/dd)
Drawn By	J.V.D.	Dessiné par
Date	2016 04 08	(yyyy/mm/dd)
Reviewed By	REVIEWED_BY	Examiné par
Date	DATE_REVIEWED	(yyyy/mm/dd)
Approved By	APPROVED_BY	Approuvé par
Date	DATE_APPROVED	(yyyy/mm/dd)
Tender	TENDER	Soumission
Project Manager	PROJECT_MANAGER	Administrateur de projets
W.O. no.		D.T. no.

A1-010981-01
 Drawing no. 5122-A04 No. du dessin

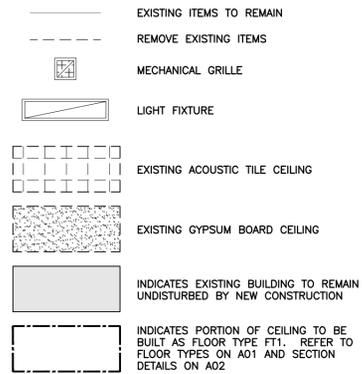
TYPICAL REFLECTED CEILING PLAN NOTES

- IN THE EVENT OF DISCREPANCIES FOR THE LOCATION OF MECHANICAL OR ELECTRICAL ITEMS TO BE INCORPORATED, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
- REFLECTED CEILING PLANS ARE TO BE READ IN CONJUNCTION WITH DETAILS AND INFORMATION SHOWN ELSEWHERE ON DRAWINGS. IN THE EVENT OF DISCREPANCIES THE MORE STRINGENT REQUIREMENT SHALL GOVERN (FOR EXAMPLE: DRYWALL BULKHEADS SHOWN ON REFLECTED CEILING PLANS MAY NOT APPEAR ON BUILDING SECTIONS BUT ARE REQUIRED TO BE INCORPORATED).
- SEE FLOOR PLANS FOR ADDITIONAL TYPICAL NOTES.
- COORDINATE LOCATION OF ACCESS DOORS WITH MECHANICAL TRADES TO PERMIT ACCESS TO EQUIPMENT BEHIND HARD SURFACES. ACCESS DOORS SUPPLIED BY MECHANICAL.

DEMOLITION NOTES - CEILING PLAN

- REMOVE EXISTING GYPSUM BOARD OR PLASTER CEILING, INCLUDING ASSOCIATED SUSPENSION SYSTEM. REMOVE LOOSE DEBRIS ABOVE AS REQUIRED TO FACILITATE NEW WORK. PROVIDE TEMPORARY SUPPORT AS REQUIRED.
- REMOVE EXISTING ACOUSTICAL TILE CEILING AND ASSOCIATED SUSPENSION SYSTEM. REMOVE PLASTER CEILING ABOVE. REMOVE ALL LOOSE DEBRIS IN CEILING SPACE TO FACILITATE NEW WORK.
- PROVIDE OPENING IN MASONRY WALL ABOVE AS REQUIRED FOR NEW MECHANICAL PIPING. REFER TO MECHANICAL. PATCH REPAIR AND MAKE GOOD WALL, INCLUDING PAINT FINISH TO MATCH ADJACENT EXISTING.
- REMOVE EXISTING GYPSUM/ PLASTER CEILING. REMOVE LOOSE DEBRIS ABOVE AS REQUIRED TO FACILITATE NEW WORK. PROVIDE TEMPORARY SUPPORT AS REQUIRED.
- CORE EXISTING FLOOR SLAB ABOVE AS REQUIRED FOR NEW MECHANICAL PIPING. REFER TO MECHANICAL. FIRESTOP AND SEAL ALL PENETRATIONS AFTER MECHANICAL INSTALLATIONS COMPLETED.
- REMOVE GYPSUM BOARD AND CERAMIC WALL FINISH AS REQUIRED TO COMPLETE NEW MECHANICAL PIPING INSTALLATIONS.

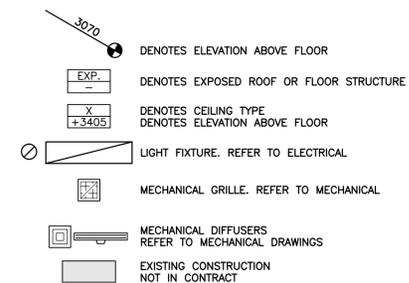
REFLECTED CEILING PLANS DEMOLITION LEGEND



CEILING TYPE SCHEDULE

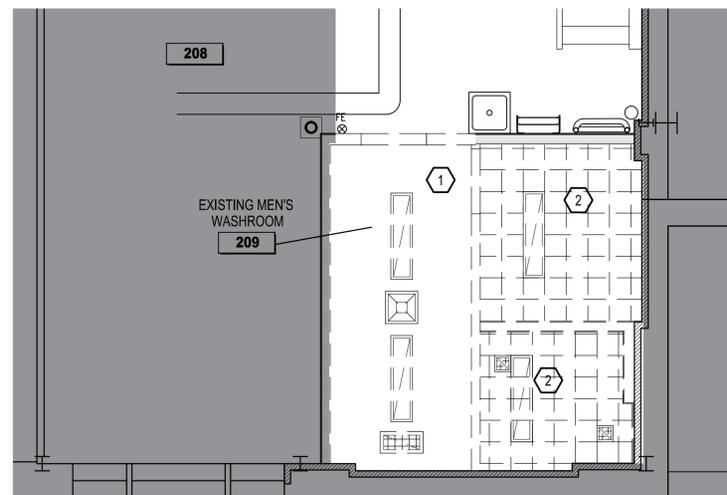
CEILING TYPE	INDICATION	DESCRIPTION
A		16mm SUSPENDED MOISTURE RESISTANT GYPSUM BOARD CEILING
B		2' X 4' (610mm X 1220mm) SUSPENDED ACOUSTICAL TILES CEILING
C		16mm SUSPENDED GYPSUM BOARD CEILING OR BULKHEAD

REFLECTED CEILING PLAN LEGEND

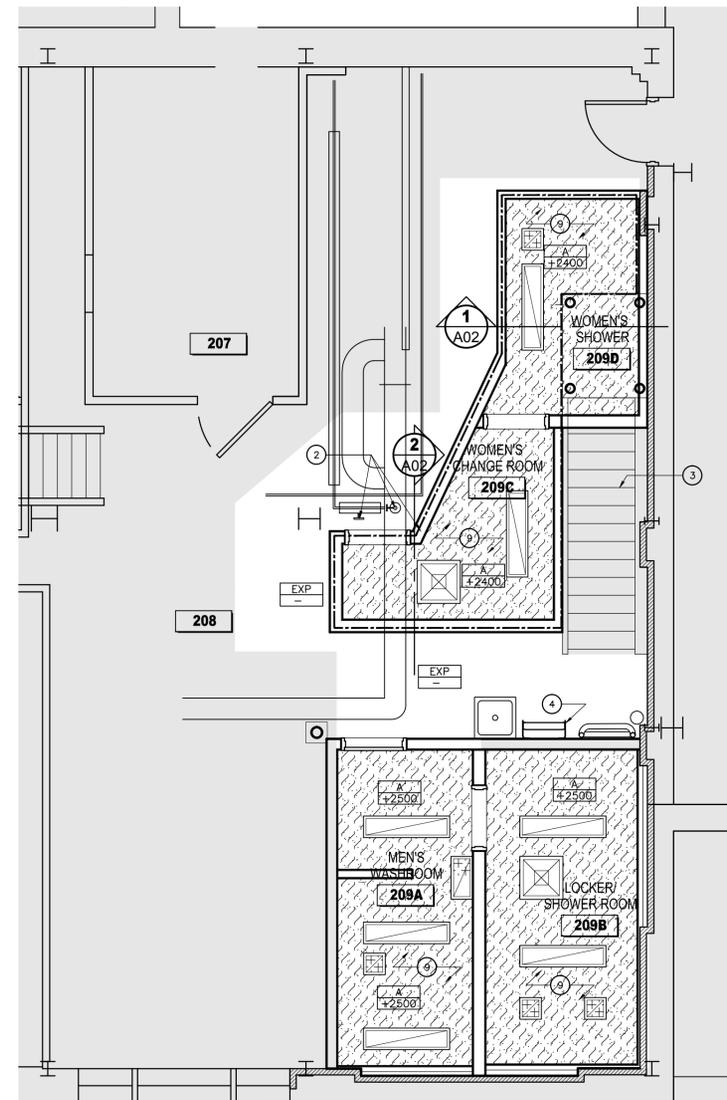


DRAWING NOTES

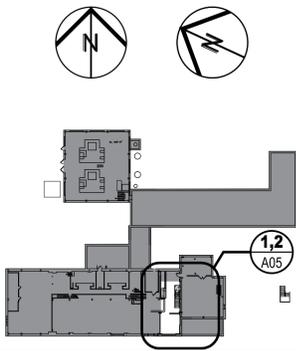
- 16mm GYPSUM BOARD BULKHEAD
- COORDINATE NEW CONSTRUCTION WITH EXISTING MECHANICAL EQUIPMENT, PIPES AND DUCTS. MAINTAIN REQUIRED ACCESS TO MECHANICAL VALVES
- EXISTING STAIR TO REMAIN
- EXISTING LADDER TO REMAIN
- HIGH WALL WITH 16mm MOISTURE RESISTANT GYPSUM BOARD
- INSTALL NEW GYPSUM BOARD CEILING ON STEEL STUD SUSPENSION SYSTEM. HEIGHT TO MATCH ADJACENT GYPSUM/ PLASTER CEILING
- RADIANT HEAT PANEL. REFER TO MECHANICAL
- REPLACE DEMOLISHED SUSPENDED PLASTER OR GYPSUM BOARD CEILING WITH GYPSUM BOARD CEILING AND ASSOCIATED SUSPENSION SYSTEM
- CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS OF STEEL STUD CEILING ASSEMBLY. ALL STEEL STUD FRAMING TO BE DESIGNED TO MEET SEISMIC REQUIREMENTS OF OBC 2012
- REINSTATE FIREPROOFING ON STEEL STRUCTURE SUPPORTING MEZZANINE FLOOR SLAB. REFER TO TYPICAL FIREPROOFING DETAIL ON A010
- PROVIDE NEW GYPSUM BOARD AND CERAMIC TILE WALL FINISH TO MATCH ADJACENT EXISTING
- PATCH REPAIR AND MAKE GOOD TRANSITION TO EXISTING GYPSUM BOARD / PLASTER CEILING. PAINT TO MATCH EXISTING
- NEW ACOUSTICAL TILE CEILING TO BE INSTALLED AT HEIGHT OF DEMOLISHED ACOUSTICAL TILE CEILING. PATCH REPAIR AND MAKE GOOD ADJACENT DAMAGED FINISHES.
- INFILL EXISTING CONCRETE SLAB AS PER STRUCTURAL DETAILS ON S02. REFER TO STRUCTURAL.



1 MEZZANINE CEILING PLAN - DEMOLITION
1:50



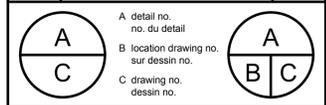
2 MEZZANINE CEILING PLAN - NEW WORK
1:50



KEY PLAN: AREA OF WORK NTS

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
2	ISSUED FOR TENDER	2017/09/08
1	ISSUED FOR 99% REVIEW	2017/06/29



project M6 WASHROOM RENOVATION
PROJECT_ADDRESS

MEZZANINE REFLECTED CEILING PLAN

Designed By	DESIGNED_BY	Conçu par
Date	DATE_DESIGNED	(yyyy/mm/dd)
Drawn By	J.V.D	Dessiné par
Date	2017 04 08	(yyyy/mm/dd)
Reviewed By	REVIEWED_BY	Examiné par
Date	DATE_REVIEWED	(yyyy/mm/dd)
Approved By	APPROVED_BY	Approuvé par
Date	DATE_APPROVED	(yyyy/mm/dd)
Tender	TENDER	Soumission
Project Manager	PROJECT_MAN	Administrateur de projets

W.O. no. A1-010981-01 D.T. no.
Drawing no. 5122-A05 No. du dessin

NRC MONTREAL ROAD CAMPUS BUILDINGS M6 WASHROOMS RENOVATION

1200 MONTREAL ROAD, OTTAWA



GOODKEY WEEDMARK & ASSOCIATES LIMITED
 1688 Woodward Dr. Ottawa Ontario Canada K2C 3R8
 613 727-5111 Fax 613 727-5115
 www.gwal.com Web GWAL Project: 2016-187 GWA# 2017-201



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

DRAWING LIST	
SYMBOL	DESCRIPTION
M1	MECHANICAL DRAWING LIST, LEGENDS & SCHEDULE
M2	M6 - GROUND FLOOR & MEZZ WASHROOM - PLUMBING DEMOLITION & NEW WORK
M3	M6 - GROUND FLOOR & MEZZ WASHROOM - HVAC DEMOLITION & NEW WORK

GENERAL LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING PIPING/DUCTWORK/EQUIPMENT
----	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
---	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(N)	DENOTES NEW EQUIPMENT
(X)	DENOTES EXISTING TO BE REMOVED

PLUMBING/FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
---	PIPING BELOW GRADE/SLAB
DCW	DOMESTIC COLD WATER PIPING
DHW	DOMESTIC HOT WATER PIPING
SAN	SANITARY PIPING
V	VENT PIPING
○	PIPING OFFSET
—	BRANCH PIPING DOWN
—	PIPING DOWN
—	PIPING UP
—	PIPE REDUCER
⊔	CAP
⌋	P-TRAP
—	CLEAN OUT
⊘	ISOLATION VALVES
—	HOSE BIBB
⊘	FLOOR DRAIN
PT	PETE'S PLUG (PRESSURE & TEMPERATURE TEST PORT)
⊙ FE1	FIRE EXTINGUISHER C/W MOUNTING BRACKET

HVAC LEGEND	
SYMBOL	DESCRIPTION
▭	RECTANGULAR DUCTWORK
○	ROUND DUCTWORK
▭	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
⊠	MOTORIZED DAMPER
○	ROUND DUCTWORK OFFSET
▭	RECTANGULAR DUCTWORK OFFSET
⊠	DUCTWORK UP
⊠	DUCTWORK DOWN
▭	RECTANGULAR TO ROUND TRANSITION
⊠	TAKE-OFF C/W BALANCING DAMPER
⊠	TAKE-OFF
⊠ EG	EXHAUST GRILLE (EG)
⊠ TG	TRANSFER GRILLE (TG)
SD1	GRILLE TAG
200#95	GRILLE TYPE
	AIRFLOW (L/S)
	SIZE (mm)

CONTROLS LEGEND	
SYMBOL	DESCRIPTION
—	CONTROL WIRING
⊠	THERMOSTAT - PNEUMATIC
⊠	THERMOSTAT - DDC (LOW VOLTAGE)
⊠	SPEED CONTROLLER

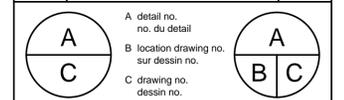
PLUMBING FIXTURES							
PRODUCT TAG NO	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL	COLOUR	TRIM MANUFACTURER & MODEL	ACCESSORIES
L1	WALL HUNG LAVATORY	AS INDICATED	AMERICAN STANDARD	0954 004EC + 0062.000EC	WHITE	FAUCET: AMERICAN STANDARD ELECTRONIC 6055.202, BATTERY POWERED	ANTI-SCALD MIXING VALVE (605XTMV), FLOOR MOUNT WALL CARRIER, SHROUD/KNEE CONTACT GUARD, P-TRAP W/ CLEAN-OUT
WC1	FLOOR MOUNT WATER CLOSET	AS INDICATED	AMERICAN STANDARD	3483.001	WHITE	TANK TYPE	ELONGATED BOWL HEAVY DUTY, OPEN FRONT, LESS COVER - CENTOCO 500STSCC
U1	URINAL	AS INDICATED	AMERICAN STANDARD	6590 001	WHITE	AMERICAN STANDARD SELECTRONIC URINAL FLUSH VALVE 6063.101.002, TOP SPUD, BATTERY POWERED	WATTS CA-321 FIXTURE CARRIER, WALL ACCESS CLEANOUT
SH1	SHOWER	AS INDICATED	DELTA	-	-	DELTA T17TH135 R10000-UNWS	THERMOSTATIC MIXING VALVE, SHOWER DRAIN - WATTS WSD-SQNB-2T
FD1	FLOOR DRAIN	AS INDICATED	WATTS	FD-200-FC	-	-	EPOXY COATED CAST IRON FLOOR DRAIN WITH SURFACE MEMBRANE CLAMP, ROUND NICKEL BRONZE STAINLESS STEEL STRAINER

NOTES:
 1. COORDINATE EXACT PIPING LOCATION ON SITE AND WITH ARCHITECTURAL DOCUMENTS.
 2. VENT TO MEET OBC REQUIREMENTS. VENTING THROUGH SLOPED ROOFS NOT PERMITTED.
 3. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY. ALTERNATIVE MATERIALS MAY BE APPROVED AFTER REVIEW OF TECHNICAL INFORMATION BY ENGINEER DURING TENDER AND APPROVED VIA ADDENDUM.
 4. MINIMUM UNDERGROUND SANITARY PIPING SIZE TO BE 50#. ALL SANITARY PIPING TO BE INSTALLED TO MAXIMIZE PIPE SLOPE. CAREFUL ATTENTION SHALL BE MADE WHILE JOINING PIPE SECTIONS AND FITTINGS TO ENSURE INTERIOR OF PIPE IS SMOOTH AND WILL PREVENT UNACCEPTABLE AMOUNT OF CLOGS DUE TO HAIR BUILD UP.

FAN SCHEDULE													
UNIT NO.	ID. NO.	LOCATION	FUNCTION	FAN DATA					ELECTRICAL DATA		BASIS OF DESIGN	REMARKS	
				TYPE	DRIVE (BELT/DIRECT)	AIR FLOW (L/s)	ESP (Pa)	FAN SPEED (RPM)	SONES	V/PH/Hz			WATTS/FLA
EF1	-	M6-MEZZANINE	EXHAUST FAN	INLINE CABINET	DIRECT	165	62	779	0.3	120/1/60	104/4.4	GREENHECK CSP-A710	C/W SPEED CONTROLLER, BACKDRAFT DAMPER, LOUVER
TF1	-	M6-MEZZANINE	TRANSFER FAN	INLINE CABINET	DIRECT	140	32	988	3.3	120/1/60	75/2.6	GREENHECK SQ-90-VG	C/W ECM CONTROLLER

NOTES:
 1. FOR DETAILS REFER TO SPECIFICATIONS.

9		
8		
7		
6		
5		
4	ISSUED FOR TENDER	28/08/17
3	RE-ISSUED FOR 100% REVIEW	21/08/17
2	ISSUED FOR 100% REVIEW	16/05/17
1	ISSUED FOR 60% REVIEW	20/03/17
revisions	description	date

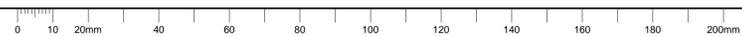


project project
**NRC BUILDINGS M6
 M6 WASHROOM
 RENOVATION**
 1200 MONTREAL ROAD, OTTAWA

drawing dessin
**MECHANICAL
 DRAWING LIST,
 LEGENDS &
 SCHEDULES**

Designed By	S.VALLIER	Conçu par
Date	2016-04-13	(yyyy/mm/dd)
Drawn By	S.VALLIER	Dessiné par
Date	2016-04-13	(yyyy/mm/dd)
Reviewed By	R.LEONARD	Examiné par
Date	2016-04-13	(yyyy/mm/dd)
Approved By	R.LEONARD	Approuvé par
Date	2016-04-13	(yyyy/mm/dd)
Tender		Soumission
Project Manager		Administrateur de projets
W.O. no.		D.T. no.

5122
 Drawing no. No. du dessin
M1





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9		
8		
7		
6		
5		
4	ISSUED FOR TENDER	28/08/17
3	RE-ISSUED FOR 100% REVIEW	21/08/17
2	ISSUED FOR 100% REVIEW	16/05/17
1	ISSUED FOR 60% REVIEW	20/03/17
revisions	description	date

A	A detail no.	A
C	no. du detail	C
	B location drawing no.	B
	sur dessin no.	
	C drawing no.	C
	dessin no.	

project _____ projet _____

**NRC BUILDINGS M6
 M6 WASHROOM
 RENOVATION**

1200 MONTREAL ROAD, OTTAWA

drawing _____ dessin _____

**M6 - GROUND FLOOR &
 MEZZ WASHROOM
 HVAC DEMOLITION &
 NEW WORK**

Designed By S.VALLIER Conçu par
 Date 2016-04-13 (yyyy/mm/dd)

Drawn By S.VALLIER Dessiné par
 Date 2016-04-13 (yyyy/mm/dd)

Reviewed By R.LEONARD Examiné par
 Date 2016-04-13 (yyyy/mm/dd)

Approved By R.LEONARD Approuvé par
 Date 2016-04-13 (yyyy/mm/dd)

Tender _____ Soumission _____

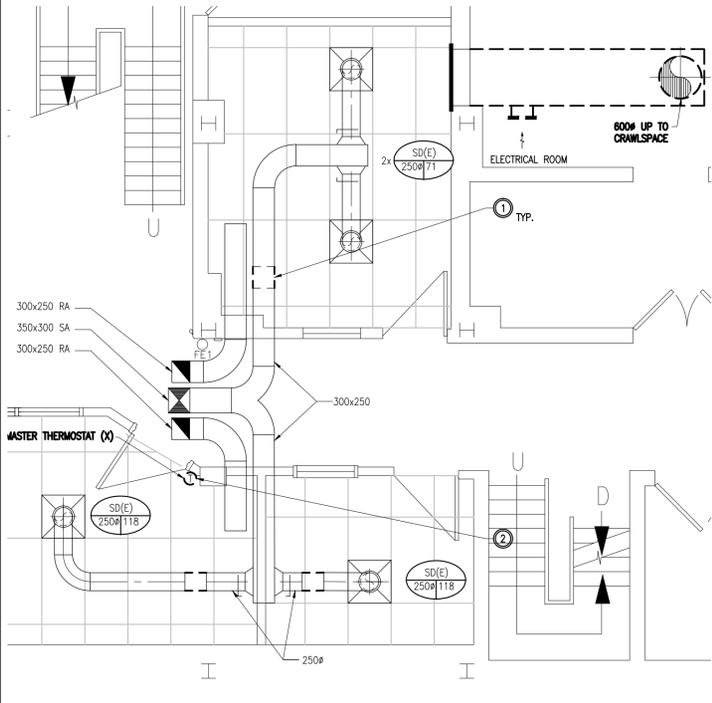
Project Manager Administrateur de projets

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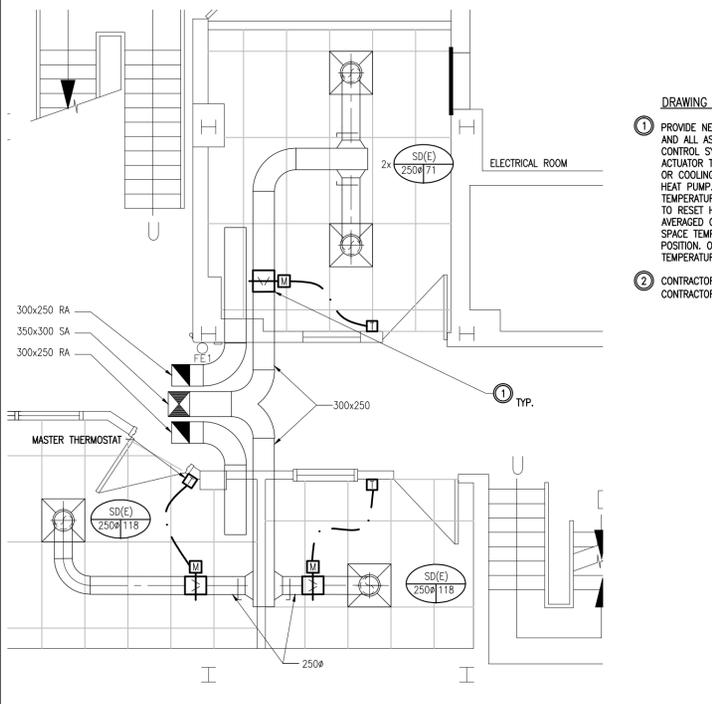
M3



DRAWING NOTES - HVAC DEMOLITION

- REMOVE EXISTING DUCTWORK AS INDICATED.
 - REMOVE EXISTING MASTER THERMOSTAT C/W CONTROL WIRING AND ALL ASSOCIATED ACCESSORIES. RETURN THERMOSTAT TO OWNER. ALL CONTROLS WORK TO BE PROVIDED BY AIRTRON.
- REMOVE EXISTING DUCTWORK C/W GRILLES AND ALL ASSOCIATED ACCESSORIES AS INDICATED.

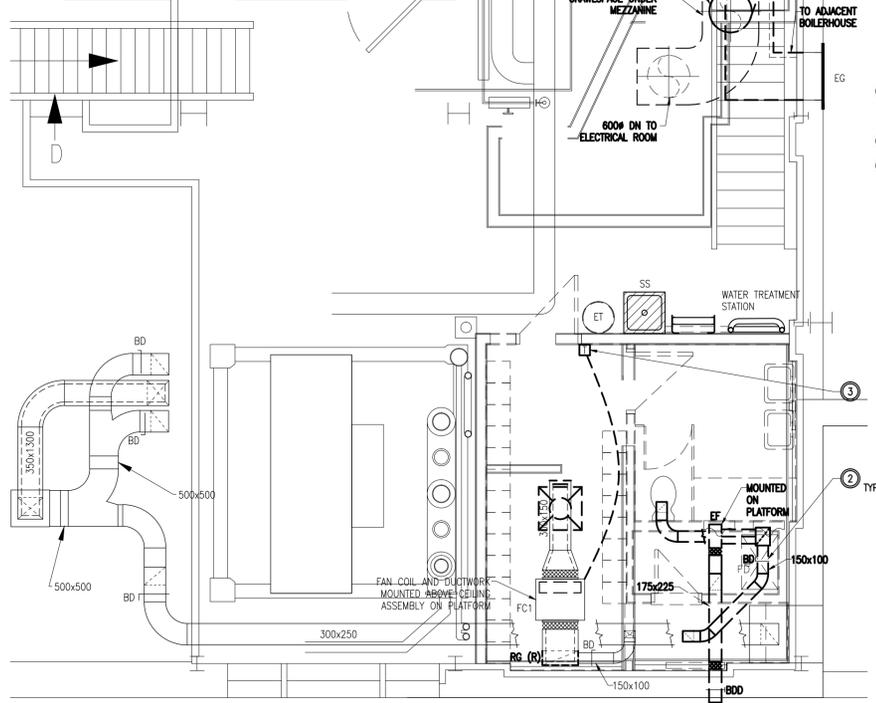
**M6 - GROUND FLOOR
 HVAC DEMOLITION WORK**
 1 M3 1:50



DRAWING NOTES - HVAC NEW WORK

- PROVIDE NEW MOTORIZED DAMPER AS INDICATED C/W TEMPERATURE SENSOR AND ALL ASSOCIATED DUCTWORK. CONNECT TO EXISTING BASE BUILDING CONTROL SYSTEM. ALL CONTROLS WORK TO BE PROVIDED BY AIRTRON. ACTUATOR TO BE REVERSE ACTING BASED ON WHETHER FAN COIL IS IN HEATING OR COOLING MODE. PROVIDE NEW CONTROLLER AND INTEGRATE WITH EXISTING HEAT PUMP. UPDATE GRAPHICS AND PROGRAMMING ACCORDINGLY. NEW TEMPERATURE SENSORS TO HAVE OCCUPANCY SENSORS AND OVERRIDE BUTTONS TO RESET HEAT PUMP SUPPLY AIR TEMPERATURE SETPOINT TO MEET DEMAND AVERAGED OVER ALL OCCUPIED SPACES. OTHERWISE HEAT PUMP TO CONTROL SPACE TEMPERATURE AT MASTER STAT WITH ASSOCIATED DAMPER AT FULL POSITION. OTHER SPACE DAMPERS TO MODULATE TO MAINTAIN INDIVIDUAL SPACE TEMPERATURES.
- CONTRACTOR TO BALANCE ALL DIFFUSERS TO AIR FLOWS INDICATED. CONTRACTOR TO SUBMIT BALANCING REPORT FOR ENGINEER'S REVIEW.

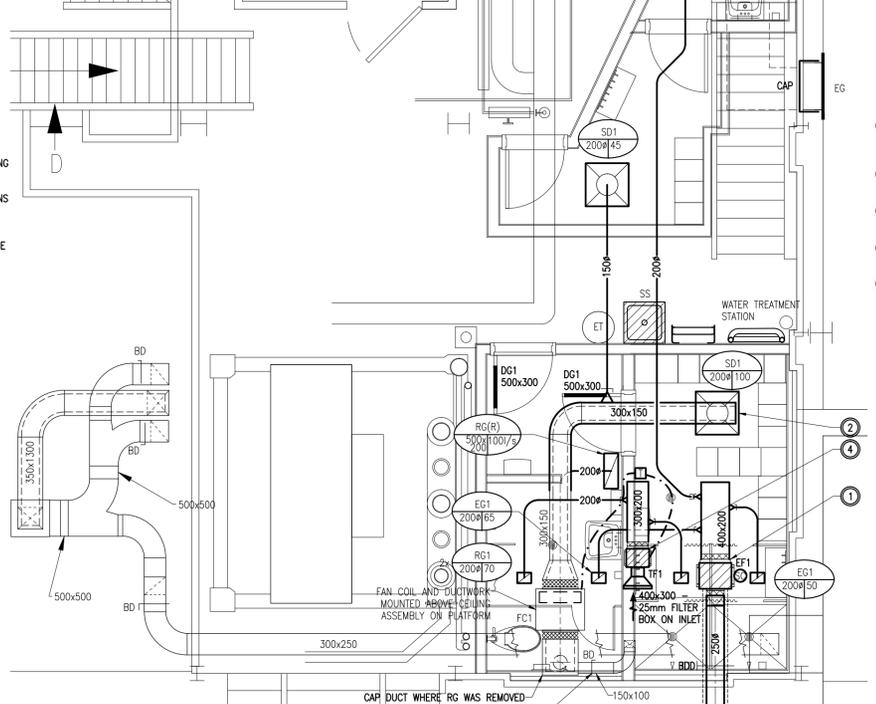
**M6 - GROUND FLOOR
 HVAC NEW WORK**
 3 M3 1:50



DRAWING NOTES - HVAC DEMOLITION

- REMOVE EXISTING EXHAUST FAN (EF) AS INDICATED C/W ALL DUCTWORK AND ALL ASSOCIATED ACCESSORIES INCLUDING PORTION THAT IS LOCATED IN ELECTRICAL ROOM AND INTERSTITIAL SPACE BELOW. LOUVER LOCATED IN ELECTRICAL ROOM TO REMAIN EXISTING.
- REMOVE EXISTING DUCTWORK C/W GRILLE AS INDICATED.
- REMOVE EXISTING THERMOSTAT AS INDICATED. RETAIN FOR REUSE IN NEW LAYOUT. ALL CONTROLS WORK TO BE PROVIDED BY AIRTRON.

**M6 - MEZZANINE
 HVAC DEMOLITION WORK**
 2 M3 1:50



DRAWING NOTES - HVAC NEW WORK

- PROVIDE NEW EXHAUST FAN (EF1) AS INDICATED C/W DUCTWORK, SPEED CONTROLLER, GRILLES, LOUVER AND ALL ASSOCIATED ACCESSORIES. MODIFY EXTERIOR PENETRATION TO NEW LOUVER AND SEAL. BALANCE GRILLES TO FLOWS INDICATED. SUBMIT BALANCING REPORT FOR ENGINEER'S REVIEW.
- PROVIDE NEW SUPPLY DIFFUSER AND DUCTWORK AS INDICATED. MODIFY DUCTWORK AS REQUIRED.
- CONTRACTOR TO BALANCE ALL DIFFUSERS TO AIR FLOWS INDICATED. CONTRACTOR TO SUBMIT BALANCING REPORT FOR ENGINEER'S REVIEW.
- PROVIDE NEW TRANSFER FAN (TF1) AS INDICATED C/W DUCTWORK, GRILLES AND ALL ASSOCIATED ACCESSORIES. BALANCE GRILLES TO FLOWS INDICATED. SUBMIT BALANCING REPORT FOR ENGINEER'S REVIEW.
- PROVIDE NEW THERMOSTAT AND INTEGRATION TO NEW AND EXISTING EQUIPMENT AS INDICATED TO ACCOMMODATE THE FOLLOWING SEQUENCE:
 - EF1 TO RUN CONTINUOUSLY ON SCHEDULE.
 - FC1 (EXISTING CHILLED WATER FAN COIL) TO OPERATE CONTINUOUSLY ON SCHEDULE AND CHILLED WATER VALVE TO MODULATE ON CALL FOR COOLING.
 - TF1 TO OPERATE ON CALL FOR HEATING.

**M6 - MEZZANINE
 HVAC NEW WORK**
 4 M3 1:50

NRC MONTREAL ROAD CAMPUS BUILDINGS M6 WASHROOM RENOVATION

1200 MONTREAL ROAD, OTTAWA
ELECTRICAL



GOODKEY WEEDMARK & ASSOCIATES LIMITED
1688 Woodward Dr. Ottawa Ontario Canada K2C 3R8
GVAL Project: 2016-187
613 727-5111
613 727-5115
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GWA# 2017-201



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE - TYPE AS SHOWN
	FLUORESCENT LIGHT FIXTURE EMERGENCY POWER - DO NOT SWITCH
	CEILING MOUNTED LIGHT FIXTURE - TYPE AS SHOWN
	WALL MOUNTED LIGHT FIXTURE - TYPE AS SHOWN
	WALL MOUNTED SWITCH - M.H. 1100mm A.F.F.
	WALL MOUNTED 3 WAY SWITCH - M.H. 1100mm A.F.F.
	WALL MOUNTED OCCUPANCY SENSOR - M.H. 1100mm A.F.F.
	CEILING MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED POWER PACK
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	FIRE ALARM CONTROL PANEL
	FIRE ALARM BELL
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE LIGHT - CEILING MOUNTED
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM PULL STATION
	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
	15A, 120V WALL MOUNTED DEDICATED RECEPTACLE
	RECEPTACLE INSTALLED OVER COUNTER
	5-20R RECEPTACLE
	QUADRUPLEX RECEPTACLE
	SPECIAL RECEPTACLE
	PUSHBUTTON
	MOTOR RATED SWITCH
	FLEXIBLE CONDUIT
	CONDUIT DOWN
	SINGLE PHASE ELECTRIC MOTOR
	DISCONNECT SWITCH
	MANUAL MOTOR STARTER
	SURFACE MOUNTED ELECTRICAL PANEL
	RECESSED MOUNTED ELECTRICAL PANEL
	TRANSFORMER
	JUNCTION BOX
	HARDWIRE CONNECTION
	COMBINATION VOICE/DATA OUTLET

DRAWING LIST	
SYMBOL	DESCRIPTION
E1	ELECTRICAL LEGENDS, DRAWING LIST AND KEY PLANS
E2	SECOND FLOOR LIGHTING AND FIRE ALARM WORK
E3	SECOND FLOOR POWER AND SYSTEMS WORK
E4	ELECTRICAL SINGLE LINE DIAGRAM

DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, MATERIALS FOR REMOVAL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE TAKEN FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
- DISCONNECT AND MAKE SAFE ALL SYSTEMS TO BE DEMOLISHED INCLUDING PANELS, FEEDERS, BRANCH CIRCUITS AND EQUIPMENT BY OTHER DIVISIONS. COORDINATE WITH OTHER DIVISIONS.
- MAINTAIN EXISTING REMAINING CIRCUITS, SYSTEMS, ETC., WHICH PASS THROUGH AREA OF CONSTRUCTION AND IN CLOSE PROXIMITY. PROVIDE NECESSARY COMPONENTS TO MAINTAIN SYSTEMS. ENSURE COMPONENTS WILL BE CONCEALED WHEN CONSTRUCTION IS COMPLETE.
- REINSTATE IMMEDIATELY ANY REMAINING EXISTING SYSTEMS IN-ADVERTENTLY INTERRUPTED DURING CONSTRUCTION.
- THE DRAWINGS INDICATE KNOWN CONDITIONS AND MAY NOT INDICATE ALL DEMOLITION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDER SUBMISSION AND VERIFY REQUIREMENTS AND INCLUDE ALL COSTS IN TENDER.
- REMOVE REDUNDANT CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
- DEVICES FROM DEMOLITION ARE NOT TO BE REUSED UNLESS NOTED OTHERWISE. NEW DEVICES SHALL BE SUPPLIED WHERE NECESSARY.
- ALL FIRE ALARM DEVICES TO REMAIN IN OPERATION. PROTECT SMOKE DETECTORS FROM DUST EXPOSURE DURING CONSTRUCTION.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH SHIFT.
- AFTER DEMOLITION WORK IS COMPLETE AND MINIMUM THREE (3) WORKING DAYS PRIOR TO PROCEEDING WITH NEW WORK, NOTIFY ENGINEER FOR INSPECTION.

GENERAL NOTES:

- ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE OF ONTARIO, AND WITH NEW ARCHITECTURAL/INTERIOR DESIGNER'S LAYOUT (LOCATION/MOUNTING HEIGHTS). CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, PAY ALL APPLICABLE FEES AND INSPECTION COSTS.
- COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE.
- ENSURE ELECTRICAL COMPONENTS (E. WIRING, CONDUIT, ETC.) RELATING TO THE AREA OF WORK ARE INDEPENDENTLY SECURED TO COMPLY WITH CODE REQUIREMENTS. IT IS NOT ACCEPTABLE TO SECURE THE COMPONENTS TO DUCTWORK, DUCT WORK TO CONDUIT, OR ANY OTHER SYSTEMS.
- ENSURE ALL EXISTING CEILING MOUNTED BOXES ARE CLOSED PRIOR TO COMPLETION OF PROJECT. PROVIDE LABELLED AND COLOUR CODED COVER PLATES (E. PANEL NAME AND CIRCUIT NUMBER) AS REQUIRED.
- MINIMUM THREE (3) WORKING DAYS PRIOR TO CLOSING CEILING, NOTIFY THE ENGINEER FOR CEILING INSPECTION.

LIGHTING NOTES:

- CLEAN LAMPS, LENSES, INTERIOR AND VISIBLE SURFACES OF LUMINAIRES. REPLACE DEFECTIVE LAMPS, BALLAST AND DAMAGED LENSES.
- LUMINAIRES IN CONSTRUCTION AREA ARE TO BE INDEPENDENTLY SUPPORTED, INCLUDING EXISTING TO REMAIN, RELOCATED AND NEW, TO COMPLY WITH CODE REQUIREMENTS.
- ADD, RELOCATE AND CONNECT LIGHT FIXTURES TO SUIT INDICATED LAYOUT. EXTEND CONDUIT AND WIRING AS NECESSARY AND CONNECT LUMINAIRES TO EXISTING CIRCUITS. TURN OVER SURPLUS FIXTURES TO OWNER.
- WHERE AIR SUPPLY TROFFER ARE BEING RELOCATED BY MECHANICAL CONTRACTOR TO EXISTING LIGHT FIXTURE, ELECTRICAL CONTRACTOR TO COORDINATE DISCONNECTION AND RECONNECTION AS REQUIRED.
- MODIFY ALL AFFECTED (RELOCATED OR REWIRED) 347V LIGHT FIXTURES TO PROVIDE BALLAST DISCONNECTS AS PER DESC.

EXIT LIGHTS:

- CONNECT EXIT LIGHTS TO AC AND DC SUPPLIES.
- ADD/REMOVE DIRECTIONAL ARROWS TO SUIT FLOOR PLAN LAYOUT.
- IN OPEN AREA ENSURE THE DEVICE HAS 610mm CLEARANCE FROM ANY SPRINKLER HEAD.

FIRE ALARM NOTES:

- PROVIDE NEW CIRCUITS AS REQUIRED FOR AUDIBLE AND ALARM CIRCUITS.
- ADJUST FIRE ALARM SPEAKER TAP SETTING TO MEET APPLICABLE CODES FOR SOUND LEVELS WITHIN THE AFFECTED SPACE. ADVISE ENGINEER OF ANY ISSUES WHICH ARISE FROM CONFLICT WITH THE CODES PRIOR TO COMMENCING THE WORK.
- TEST FINAL INSTALLATION AND PROVIDE VERIFICATION OF FIRE ALARM SYSTEMS IN ACCORDANCE WITH CAN/ULC S537 LATEST EDITION. VERIFICATION REPORT SHALL INCLUDE MEASURED dB LEVELS.

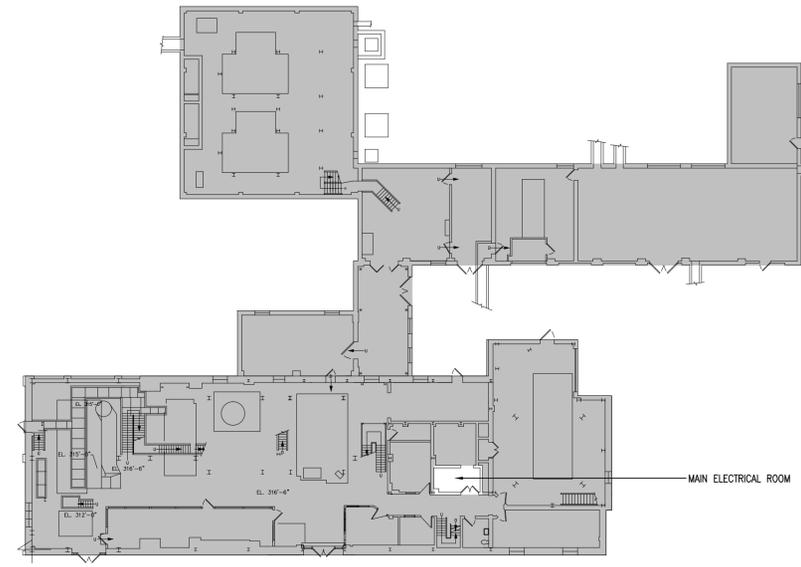
POWER NOTES:

- ENSURE EXISTING REMAINING OUTLETS IN AFFECTED AREA ARE FUNCTIONAL.
- DO NOT MOUNT WALL OUTLETS BACK TO BACK. LEAVE MINIMUM 300mm SPACE BETWEEN OUTLETS. STAGGER OUTLETS WITHIN ALTERNATE STUD CAVITIES. DO NOT ANCHOR BACK TO BACK OUTLETS TO THE SAME STUD.

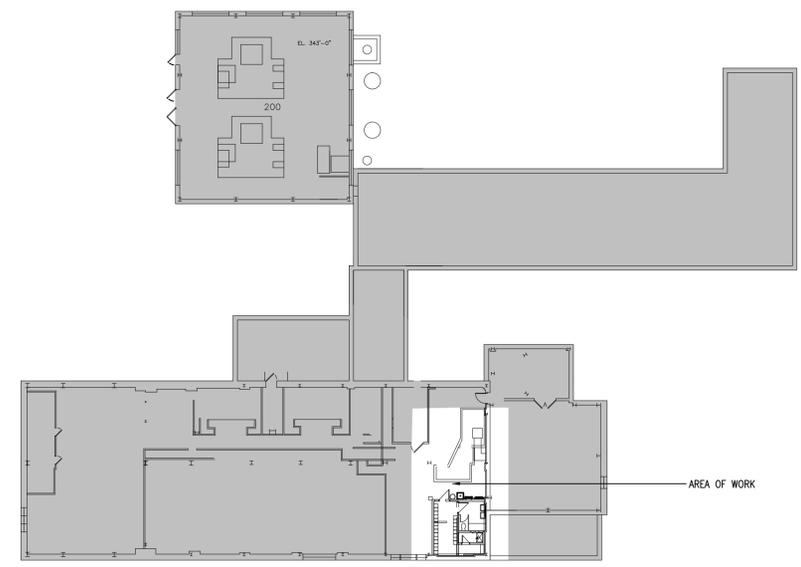
OUTLETS LOCATION:

- EXACT LOCATION AND MOUNTING HEIGHTS OF OUTLETS TO BE COORDINATED WITH INTERIOR DESIGNER/ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. REFER TO ARCHITECTURAL/DESIGNER DRAWINGS FOR MILLWORK, FURNITURE, SCREENS, COMPONENTS (I.E. TV, DRINKING FOUNTAIN, ETC.) FOR REQUIREMENTS.
- BRING TO THE ATTENTION OF THE ARCHITECT / INTERIOR DESIGNER AND ENGINEER ANY CONFLICTS OR REQUIRED CLARIFICATION.
- FAILING TO COORDINATE, THE CONTRACTOR WILL MODIFY THE INSTALLATION AT HIS EXPENSE, IF REQUIRED.

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS PER FIXTURE			VOLT	MOUNTING	REMARKS	
			QTY	TYPE	WATTS				COLOUR
1	305mm X 1220mm LED TROFFER SUITABLE FOR DAMP LOCATION	LITHONIA LIGHTING GTL-4-40L-LP840	1	LED	47W	4000K	120V	RECESSED DRYWALL	
2	NEW 152mm ROUND LED DOWNLIGHT SUITABLE FOR WET LOCATION	LITHONIA LIGHTING REAL6C6D-MW-ESL-1500L-35K-95SC-120	1	LED	19W	4000K	120V	SURFACE	
3	NEW 1220mm LED STRIP LIGHT	PHILIPS FLUXSTREAM LF-4-FR-39-40-U-LAG	1	LED	32W	4000K	120V	SUSPENDED	



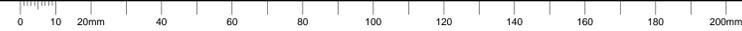
1
GROUND FLOOR KEY PLAN
E1 1:300



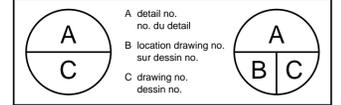
2
SECOND FLOOR KEY PLAN
E1 1:300

ABBREVIATION LEGEND	
SYMBOL	DESCRIPTION
B	BLANK WALL PLATE
C	CEILING MOUNTED
E	EXISTING, TO REMAIN
ER	EXISTING, TO BE RELOCATED
EN	EXISTING, SHOWN IN NEW LOCATION
GFI	GROUND FAULT INTERRUPTER
R	EXISTING, TO BE DISCONNECTED AND REMOVED
OC	INSTALLED OVER COUNTER TOP
S	SURFACE MOUNTED
WP	WEATHERPROOF
N	NEW

LINETYPE LEGEND	
LINETYPE	DESCRIPTION
—	EXISTING
—	NEW WORK
- - - - -	DEMOLITION WORK
— · — · —	ARCHITECTURAL GRID LINES
· · · · ·	CEILING GRID



revisions	description	date
9		
8		
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4	ISSUED FOR TENDER	28/08/17
3	RE-ISSUED FOR 100% REVIEW	21/08/17
2	ISSUED FOR 100% REVIEW	16/05/17
1	ISSUED FOR 60% REVIEW	20/03/17



project		project	
NRC BUILDINGS M6 M6 WASHROOM RENOVATION			
1200 MONTREAL ROAD, OTTAWA			
drawing		dessin	
ELECTRICAL LEGENDS, DRAWING LIST AND KEY PLANS			
Designed By	A. GIRARD	Conçu par	
Date	2016-04-13	(yyyy/mm/dd)	
Drawn By	A. GIRARD	Dessiné par	
Date	2016-04-13	(yyyy/mm/dd)	
Reviewed By	R. BOIVIN	Examiné par	
Date	2016-04-13	(yyyy/mm/dd)	
Approved By	R. BOIVIN	Approuvé par	
Date	2016-04-13	(yyyy/mm/dd)	
Tender		Soumission	
Project Manager		Administrateur de projets	
W.O. no.		D.T. no.	
5122			
Drawing no.		No. du dessin	
E1			



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
9		
8		
7		
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5		
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A C	A detail no. no. du detail	A B C
	B location drawing no. sur dessin no.	
	C drawing no. dessin no.	

project projet

**NRC BUILDINGS M6
 M6 WASHROOM
 RENOVATION**

1200 MONTREAL ROAD, OTTAWA

drawing dessin

**SECOND FLOOR
 LIGHTING AND FIRE
 ALARM WORK**

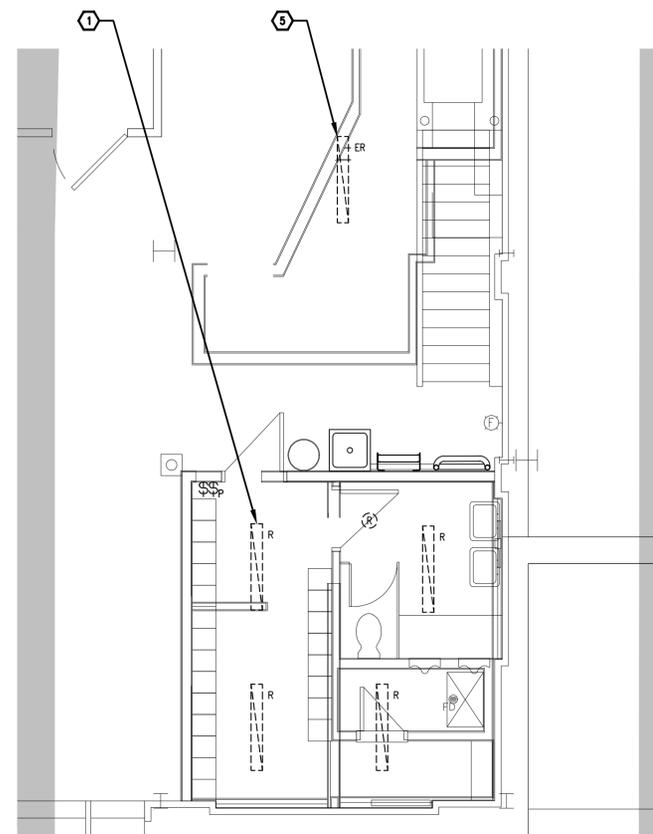
Designed By Date	A. GIRARD 2016-04-13	Conçu par (yyyy/mm/dd)
Drawn By Date	A. GIRARD 2016-04-13	Dessiné par (yyyy/mm/dd)
Reviewed By Date	R. BOIVIN 2016-04-13	Examiné par (yyyy/mm/dd)
Approved By Date	R. BOIVIN 2016-04-13	Approuvé par (yyyy/mm/dd)
Tender		Soumission

Project Manager Administrateur de projets
 W.O. no. D.T. no.

5122

Drawing no. No. du dessin

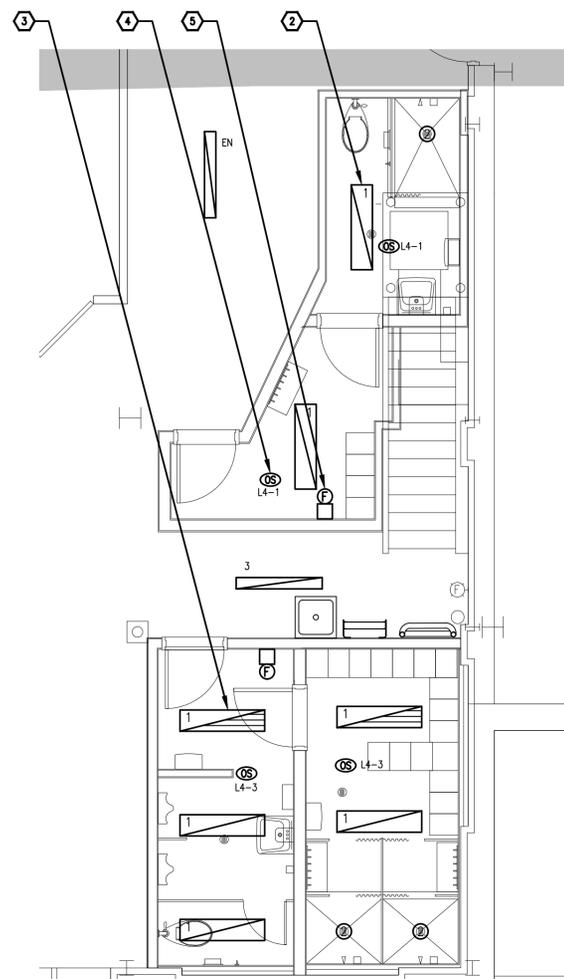
E2



**M6 - SECOND FLOOR
 LIGHTING AND FIRE ALARM DEMOLITION WORK**

1
E2

1:50



**M6 - SECOND FLOOR
 LIGHTING AND FIRE ALARM NEW WORK**

2
E2

1:50

- DRAWING NOTES**
- TYPICAL:** DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE AS SHOWN. REMOVE CONDUIT AND WIRING BACK TO NEAREST CEILING JUNCTION BOX AND MAKE SAFE. RETAIN CIRCUIT FOR USE IN NEW LAYOUT.
 - TYPICAL:** PROVIDE NEW LIGHT FIXTURE, TYPE AS INDICATED. CONNECT TO EXISTING LIGHTING CIRCUIT FEEDING THE AREA. REFERENCE LIGHT FIXTURE SCHEDULE ON DRAWING E1. CONNECT TO EXISTING LIGHTING CIRCUIT FREED FROM DEMOLITION.
 - TYPICAL:** CONNECT NEW FIXTURE TO NEAREST EMERGENCY CIRCUIT FEEDING THE AREA.
 - TYPICAL:** PROVIDE NEW LINE VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR AS INDICATED EQUAL TO DIVERSA WOR SERIES. CONNECT TO LOCAL FIXTURES.
 - TYPICAL:** PROVIDE NEW FIRE ALARM BELL AS INDICATED TO MATCH BASE BUILDING STANDARDS. CONNECT TO EXISTING FIRE ALARM CIRCUIT FEEDING THE AREA.



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

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revisions	description	date

A	A detail no. no. du detail
C	B location drawing no. sur dessin no.
	C drawing no. dessin no.

project projet

**NRC BUILDINGS M6
 M6 WASHROOM
 RENOVATION**

1200 MONTREAL ROAD, OTTAWA

drawing dessin

**SECOND FLOOR
 POWER AND SYSTEMS
 WORK**

Designed By	A. GIRARD	Conçu par
Date	2016-04-13	(yyyy/mm/dd)
Drawn By	A. GIRARD	Dessiné par
Date	2016-04-13	(yyyy/mm/dd)
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Approved By	R. BOIVIN	Approuvé par
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Tender		Soumission

Project Manager Administrateur de projets

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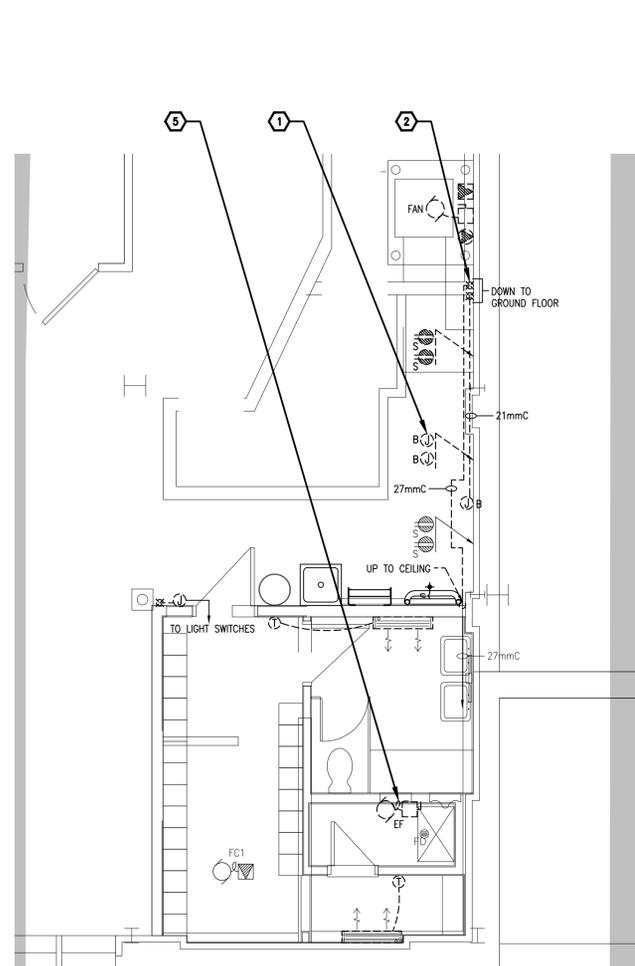
E3

GENERAL NOTES

- CONTRACTOR SHALL SOURCE ALL EXISTING CIRCUITS PRIOR TO AND AFTER DEMOLITION AND UTILIZE EXISTING PANEL SPACES AND SPARES AND PROVIDE NEW BREAKER AS REQUIRED TO SERVICE REQUIRED CIRCUITS.

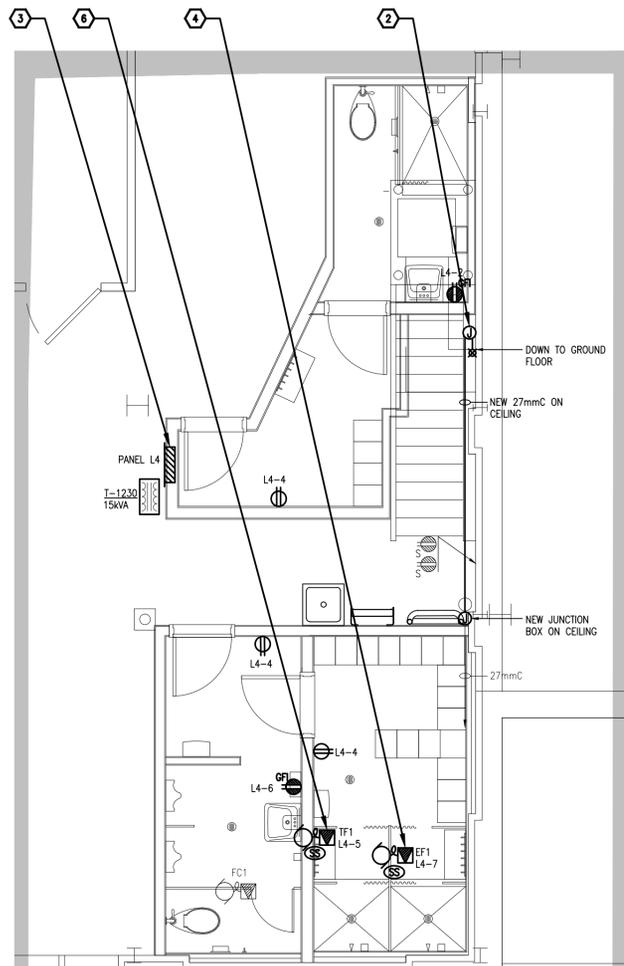
DRAWING NOTES

- TYPICAL:** DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES AS INDICATED. REMOVE CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING JUNCTION BOX AND MAKE SAFE.
- EXISTING SURFACE MOUNTED JUNCTION BOX LOCATED ON WALL C/W 21mm CONDUIT DOWN TO GROUND FLOOR ELECTRICAL ROOM TO BE DISCONNECTED AND REMOVE TO ACCOMMODATE NEW WASHROOM. CONTRACTOR TO RUN NEW FEEDER WITHIN THE NEW WALL UP TO CEILING MOUNTED OCCUPANCY SENSOR.
- PROVIDE NEW 120/208V, 3ø, 4W, 100A RECESS MOUNTED ELECTRICAL PANEL L4 AS INDICATED. PROVIDE NEW 15kVA, 600-120/208V TRANSFORMER (T-1230) C/W 3ø12-21mmc PRIMARY FEEDER AND 4ø6+GND-27mmc SECONDARY FEEDER. CONNECT TO EXISTING SPARE 20A-3P BREAKER IN PANEL "PDP2" IN MAIN ELECTRICAL ROOM. SUSPEND NEW TRANSFORMER ON WALL ABOVE NEW PANEL C/W ALL REQUIRED SUPPORTS AND SEISMIC BRACING.
- PROVIDE NEW MANUAL MOTOR STARTER EQUAL TO SQUARE D 2510K SERIES AND CONNECTION TO NEW 120V, 1ø, 4.6FLA EXHAUST FAN EF1 AND UNIT MOUNT SPEED CONTROLLER. CONNECT TO INDICATED CIRCUIT. EXHAUST FAN TO BE SUPPLIED AND INSTALLED BY MECHANICAL TRADES. SPEED CONTROLLER TO BE SUPPLIED BY MECHANICAL TRADES. INSTALLED AND WIRED BY THIS CONTRACTOR. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL TRADES.
- TYPICAL:** EXISTING EXHAUST FAN TO BE REMOVED BY MECHANICAL TRADES. DISCONNECT AND REMOVE EXISTING WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX AND MAKE SAFE. RETAIN CIRCUIT FOR USE IN NEW LAYOUT. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL TRADES.
- PROVIDE NEW MANUAL MOTOR STARTER EQUAL TO GREENHECK MS-1P SERIES AND CONNECTION TO NEW 120V, 1ø, 2.6FLA TRANSFER FAN TF1 AND UNIT MOUNT SPEED CONTROLLER. CONNECT TO INDICATED. TRANSFER FAN TO BE SUPPLIED AND INSTALLED BY MECHANICAL TRADES. SPEED CONTROLLER TO BE SUPPLIED BY MECHANICAL TRADES. INSTALLED AND WIRED BY THIS CONTRACTOR. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL TRADES.



**M6 - SECOND FLOOR
 POWER AND SYSTEMS DEMOLITION WORK**

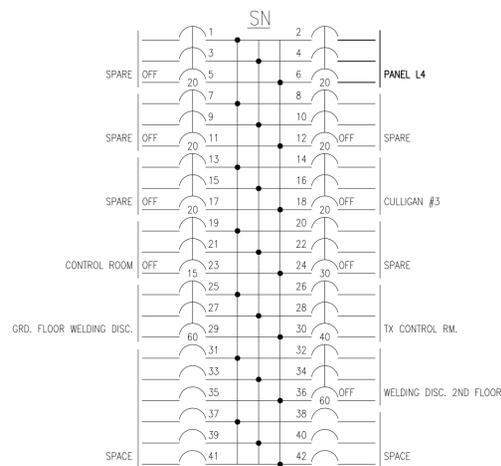
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 E3 1:50



**M6 - SECOND FLOOR
 POWER AND SYSTEMS NEW WORK**

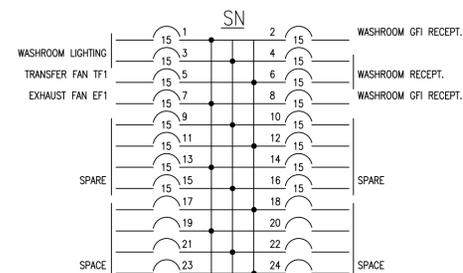
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 E3 1:50

EXISTING PANEL	PDP2
VOLTAGE	347/600V
PHASE	3ø
WIRE	4W
RATING AMPS	225A
TRIM	SURFACE



* PROVIDE NEW BREAKER TO MATCH EXISTING

NEW PANEL	L4
VOLTAGE	120/208V
PHASE	3ø
WIRE	4W
RATING AMPS	100A
TRIM	RECESSED





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project project

**NRC BUILDINGS M6
 M6 WASHROOM
 RENOVATION**

1200 MONTREAL ROAD, OTTAWA

drawing dessin

**ELECTRICAL SINGLE
 LINE DIAGRAM**

Designed By	A. GIRARD	Conçu par	
Date	2016-04-13	(yyyy/mm/dd)	
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Reviewed By	R. BOIVIN	Examiné par	
Date	2016-04-13	(yyyy/mm/dd)	
Approved By	R. BOIVIN	Approuvé par	
Date	2016-04-13	(yyyy/mm/dd)	
Tender		Soumission	

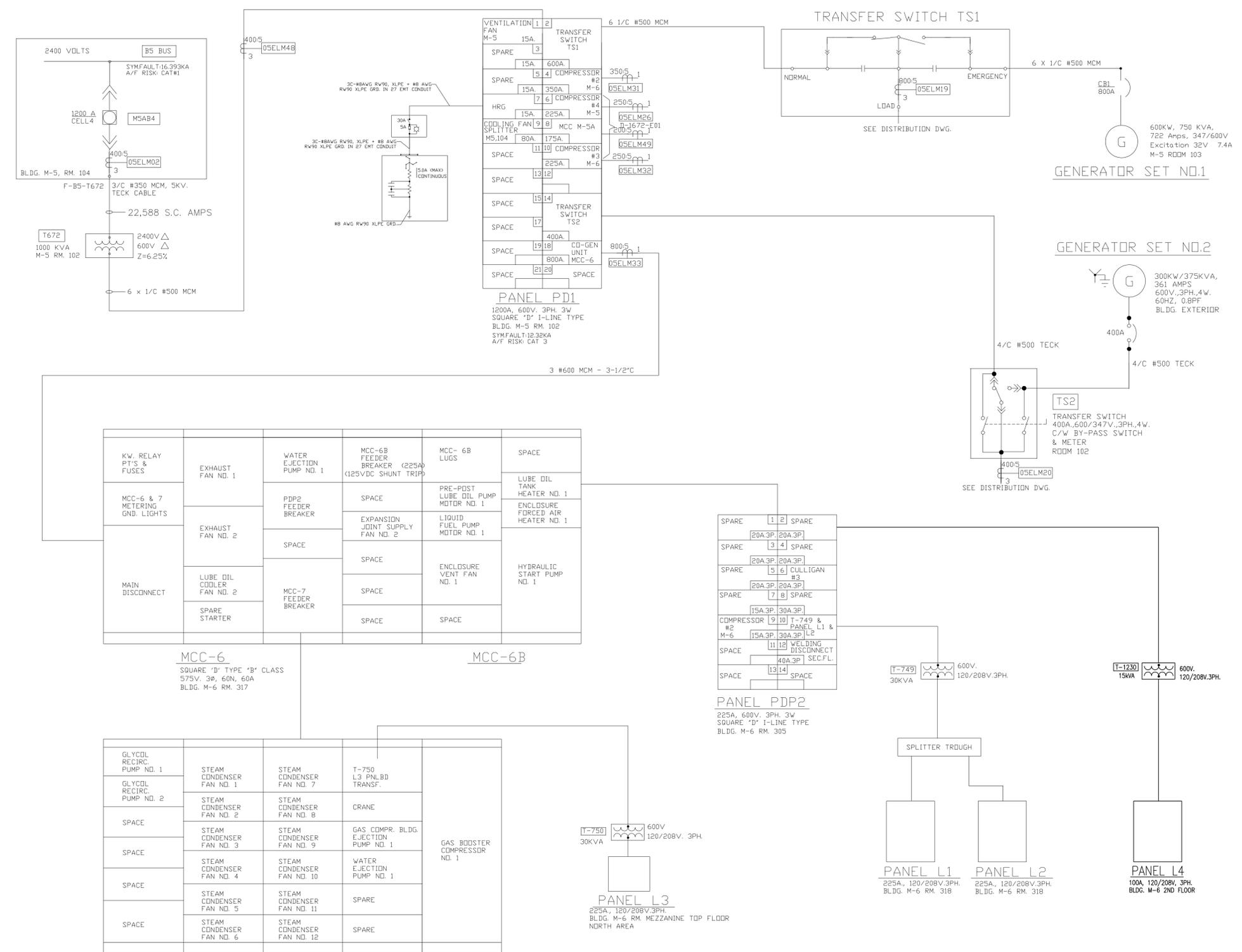
Project Manager Administrateur de projets

W.O. no. D.T. no.

5122

Drawing no. No. du dessin

E4



GENERAL

THE GENERAL NOTES AND TYPICAL DETAILS ARE APPLICABLE TO ALL STRUCTURAL CONDITIONS NOT SPECIFICALLY DETAILED OR REFERENCED ON STRUCTURAL DRAWINGS.

THESE NOTES, DETAILS AND DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.

THESE DRAWINGS ARE FOR THE USE OF THE CONSULTANT'S CLIENT ONLY. ALL INFORMATION SHOWN APPLIES TO THIS PROJECT ONLY AND REFLECTS THE BEST JUDGEMENT OF THE CONSULTANT IN LIGHT OF THE AVAILABLE INFORMATION AT THE TIME OF PREPARATION. DECISIONS OR ACTIONS MADE BY THIRD PARTIES BASED ON THE DRAWINGS ARE THE SOLE RESPONSIBILITY OF SUCH PARTIES.

THESE DRAWINGS ARE THE PROPERTY OF ADJELEIAN ALLEN RUBELI LTD. AND MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

CODES AND STANDARDS

DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012, AND THE TERM "BUILDING CODE" THROUGHOUT THESE DRAWINGS MEANS THAT CODE.

SHOP DRAWINGS

STRUCTURAL STEEL CONNECTIONS:

STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED TO RESIST THE INDICATED FACTORED MEMBER REACTIONS BY A PROFESSIONAL ENGINEER WHO WILL ALSO SEAL AND SIGN THE SHOP DRAWINGS.

DIMENSIONS

CHECK DIMENSIONS ON THESE DRAWINGS AGAINST DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE USING THEM FOR FABRICATION OR CONSTRUCTION. REPORT DISCREPANCIES IMMEDIATELY UPON DISCOVERY.

DRAWINGS HAVE BEEN MADE REASONABLY TO SCALE BUT CONTRACTOR MUST NOT SCALE THE DRAWINGS.

CONTRACTOR TO CONFIRM EXISTING BUILDING LOCATION AND TIE-IN POINTS BEFORE CONSTRUCTION.

RECORD DRAWINGS

CONTRACTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS, SHOWING AS-BUILT CONDITIONS OF ALL ASPECTS OF THE STRUCTURE, AVAILABLE FOR REVIEW DURING CONSTRUCTION, AND FOR SUBMISSION TO THE CONSULTANT AND THE OWNER UPON PROJECT COMPLETION.

STRUCTURAL STEEL:

STRUCTURAL STEEL DESIGN AND CONSTRUCTION SHALL COMPLY WITH CSA S16, UNLESS OTHERWISE NOTED.

ITEM	APPLICABLE MATERIAL SPECIFICATION
C	CSA G40.20/G40.21 - 300W

ALL STRUCTURAL STEEL TO BE PRIME PAINTED EXCEPT STEEL RECEIVING GALVANIZING, OR STEEL TO BE CAST-IN CONCRETE.

DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

INSPECTIONS AND TESTING

THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/ TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

CONCRETE:

CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2 LATEST EDITION AND THE SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE BEFORE BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED WITH LOCATION AND TEST RESULTS FOR ALL ITEMS POURED.

TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE OR DEFECTS MAY BE DEEMED REJECTABLE. CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

STRUCTURAL STEEL & CONNECTIONS:

WELDING INSPECTIONS TO BE VISUAL, EXCEPT WHERE NON-DESTRUCTIVE TESTING IS DEEMED NECESSARY BY THE TESTING AGENCY OR ENGINEER. NON-DESTRUCTIVE TESTING TO VERIFY THE QUALITY OF WELDING, WHERE DEEMED QUESTIONABLE BY VISIBLE DEFECTS OR WHERE REQUIRED BY THE ENGINEER.

REINFORCING STEEL

DETAIL AND PLACE REINFORCING STEEL IN ACCORDANCE WITH THE R.S.I.C. "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" AND CSA-A23.1 UNLESS OTHERWISE NOTED.

REINFORCING BAR SHALL BE DEFORMED GRADE 400W AS PER CSA G30.18.

PROVIDE WELDED WIRE FABRIC AS SPECIFIED IN CSA G30.5M - FLAT SHEETS ONLY.

OPENINGS

REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND TO SHOP DRAWINGS OF ALL TRADES FOR EXACT LOCATION AND EXTENT OF OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SCAN AREA FOR EXISTING REINFORCING STEEL. OBTAIN THE APPROVAL OF THE STRUCTURAL ENGINEER FOR OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT CORE DRILL, SAWCUT OR OTHERWISE PRODUCE OPENINGS OF ANY SIZE, IN ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

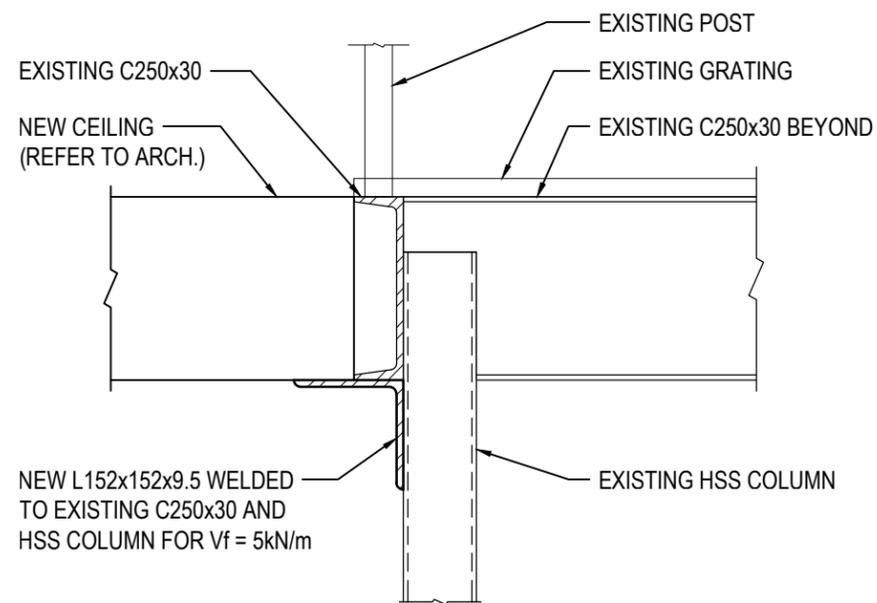
CONCRETE

ALL CONCRETE WORK TO BE IN ACCORDANCE WITH CSA-A23.1 AND CSA-A23.3

APPEARANCE OF EXPOSED CONCRETE SHALL BE TO THE APPROVAL OF THE ARCHITECT.

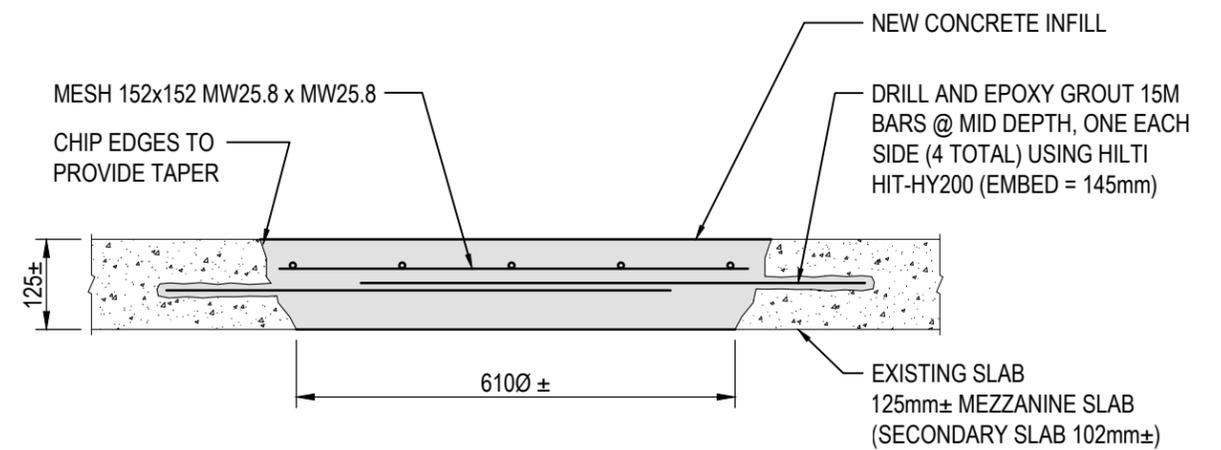
NEW CONCRETE TO BE KING FA-S10 (OR APPROVED EQUIVALENT).

			Project:		Drawn:	Project No.
			NRC M6 BUILDING SLAB INFILL		J.M.	5564-11
0	2017-09-06	ISSUED FOR TENDER		Adjeleian Allen Rubeli Limited Consulting Engineers 75 Albert Street, Suite 1005, Ottawa, Ontario	Scale:	Drawing
No	Date	Revision			AS NOTED	S01
					Date:	
					SEPT. 2017	



NEW CEILING CONNECTION @ STAIRS

1:10



TYPICAL SLAB INFILL DETAIL

1:10 REFER TO ARCH. FOR LOCATIONS

			Project:			Drawn:	J.M.	Project No.	5564-11
0	2017-09-06	ISSUED FOR TENDER	NRC M6 BUILDING SLAB INFILL	Adjeleian Allen Rubeli Limited Consulting Engineers 75 Albert Street, Suite 1005, Ottawa, Ontario		Scale:	AS NOTED	Drawing	S02
No	Date	Revision					Date:		