ANIMAL SERVICES CENTRE

EXTERIOR & INTERIOR RENOVATION PHASE-02

735 CENTRAL PKWY W, MISSISSAUGA, ON L5C 4H4

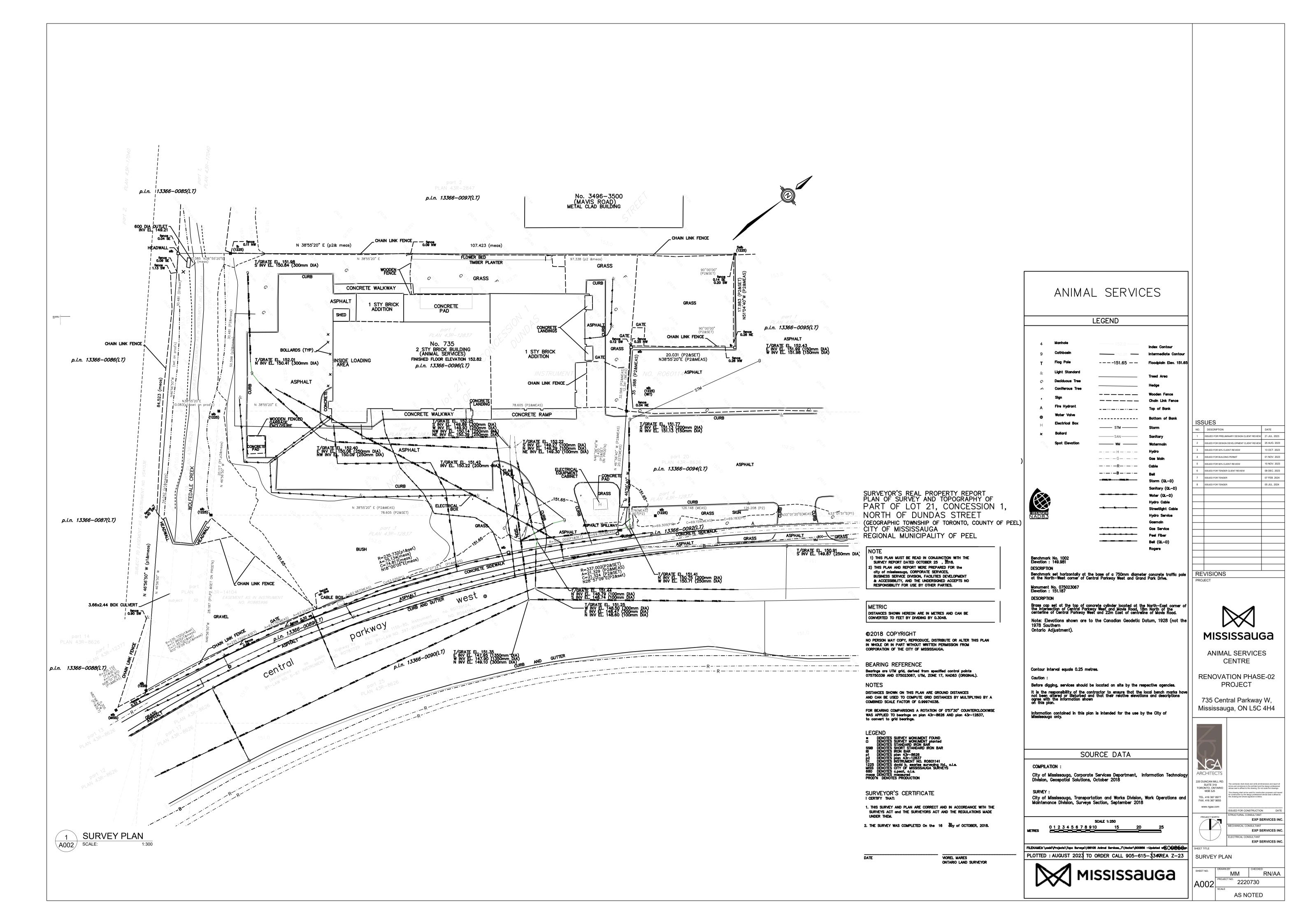


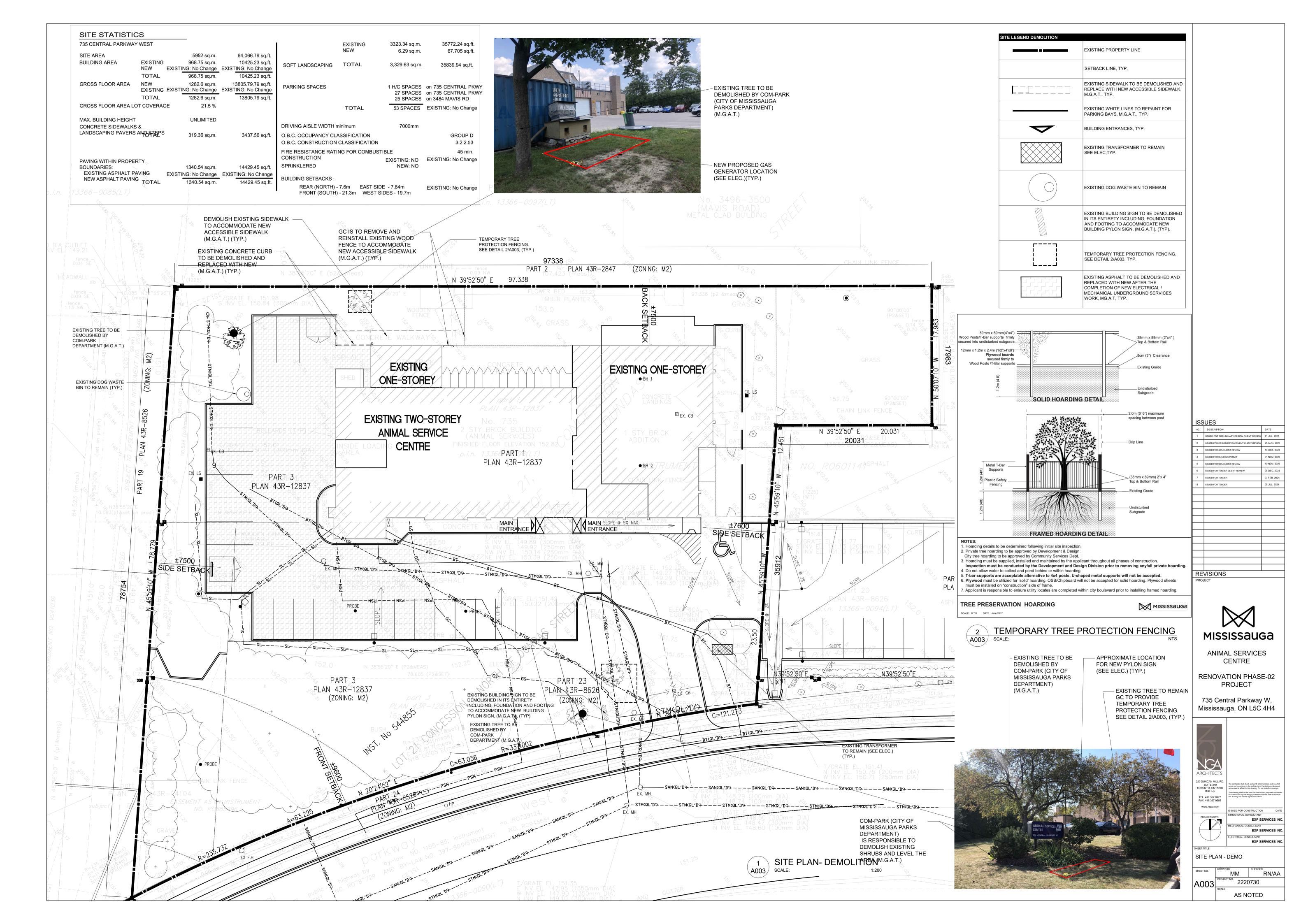
STRUCTURAL ENGINEER **EXP SERVICES INC.**

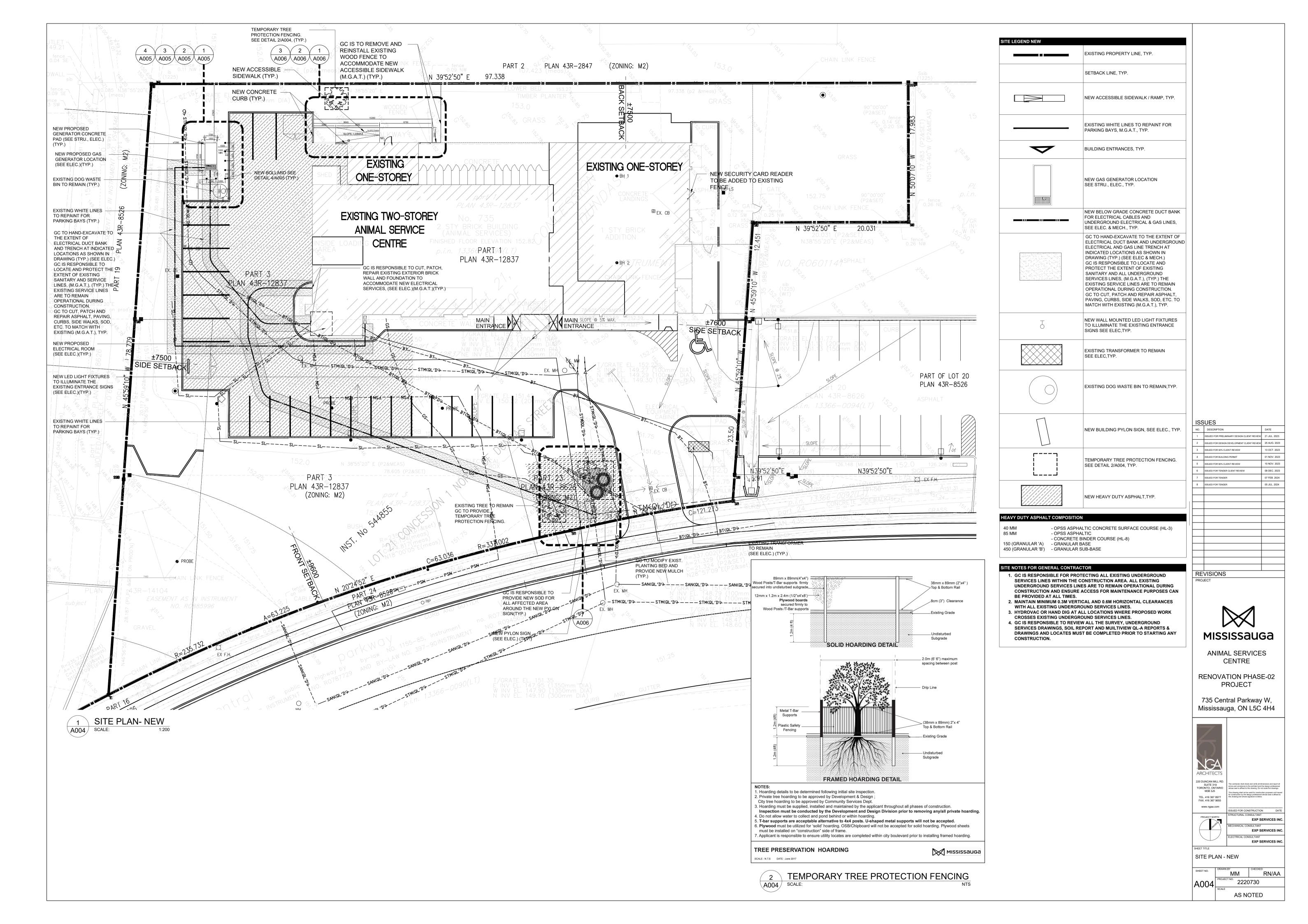
MECHANICAL ENGINEER **EXP SERVICES INC.**

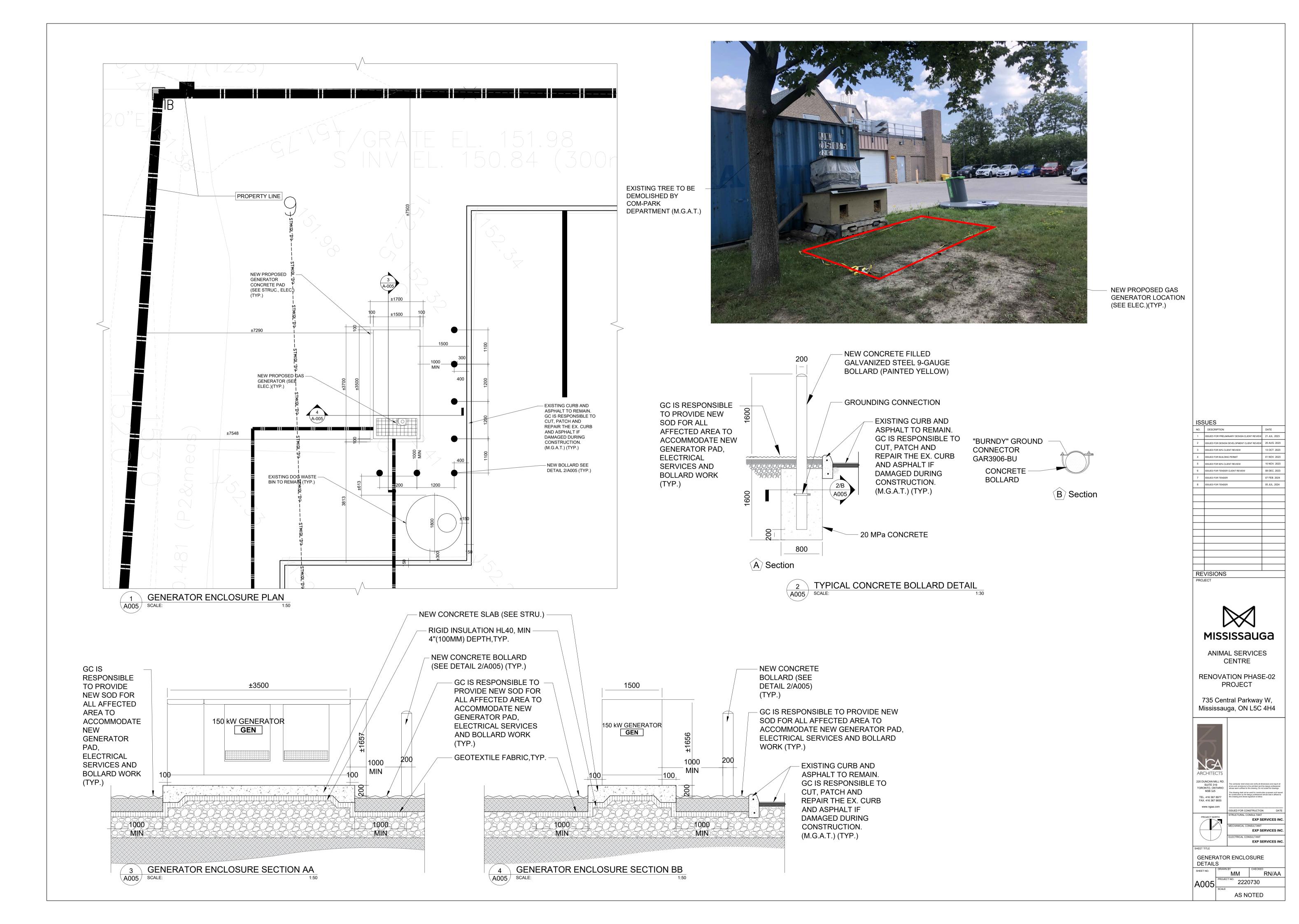
ELECTRICAL ENGINEER EXP SERVICES INC.

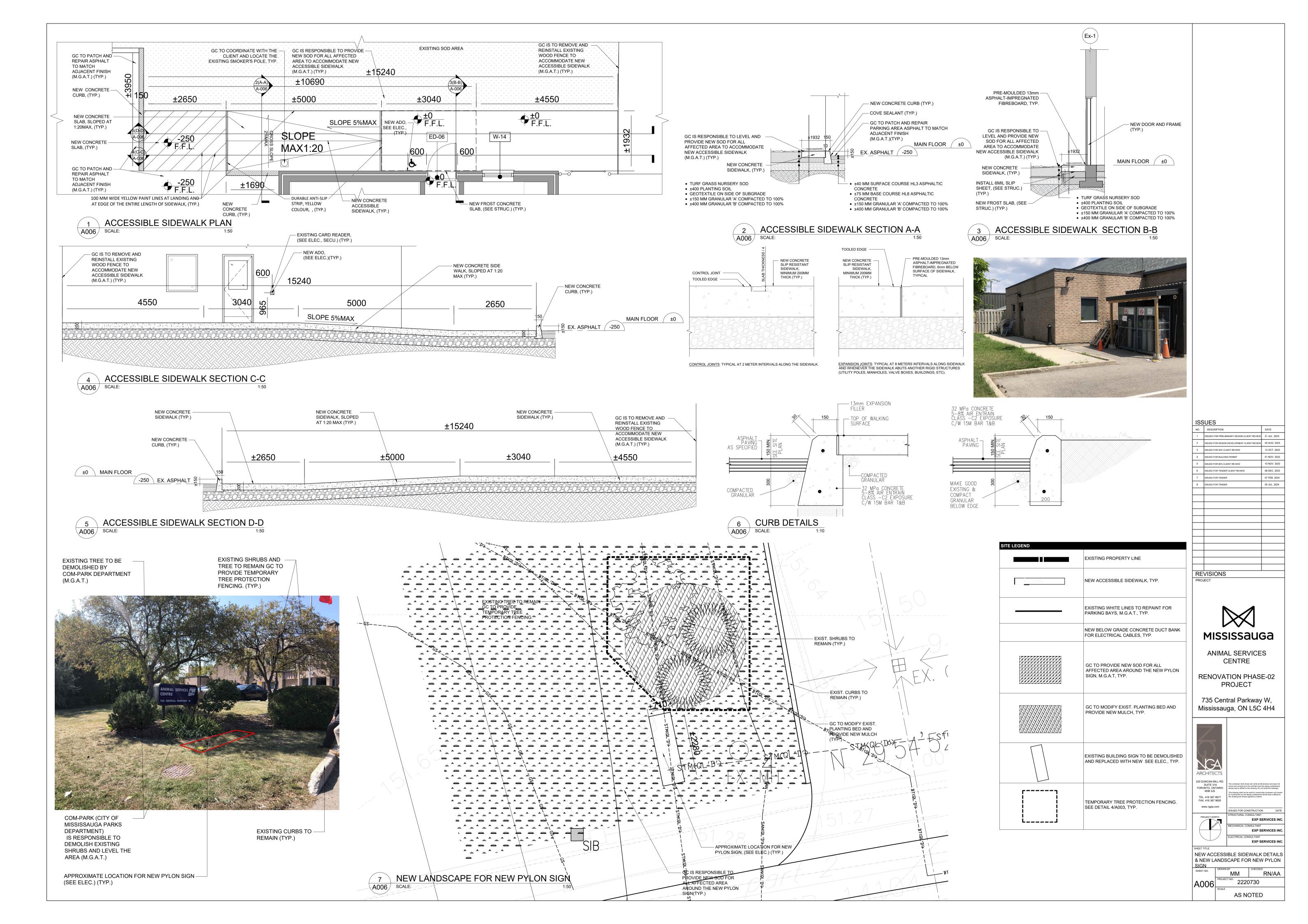
ISSUED FOR TENDER
JULY 05, 2024











FINAL ANIMAL SERVICES PYLON SIGN DESIGN GRAPHICS AND DIMENSIONS

37.625

1.375

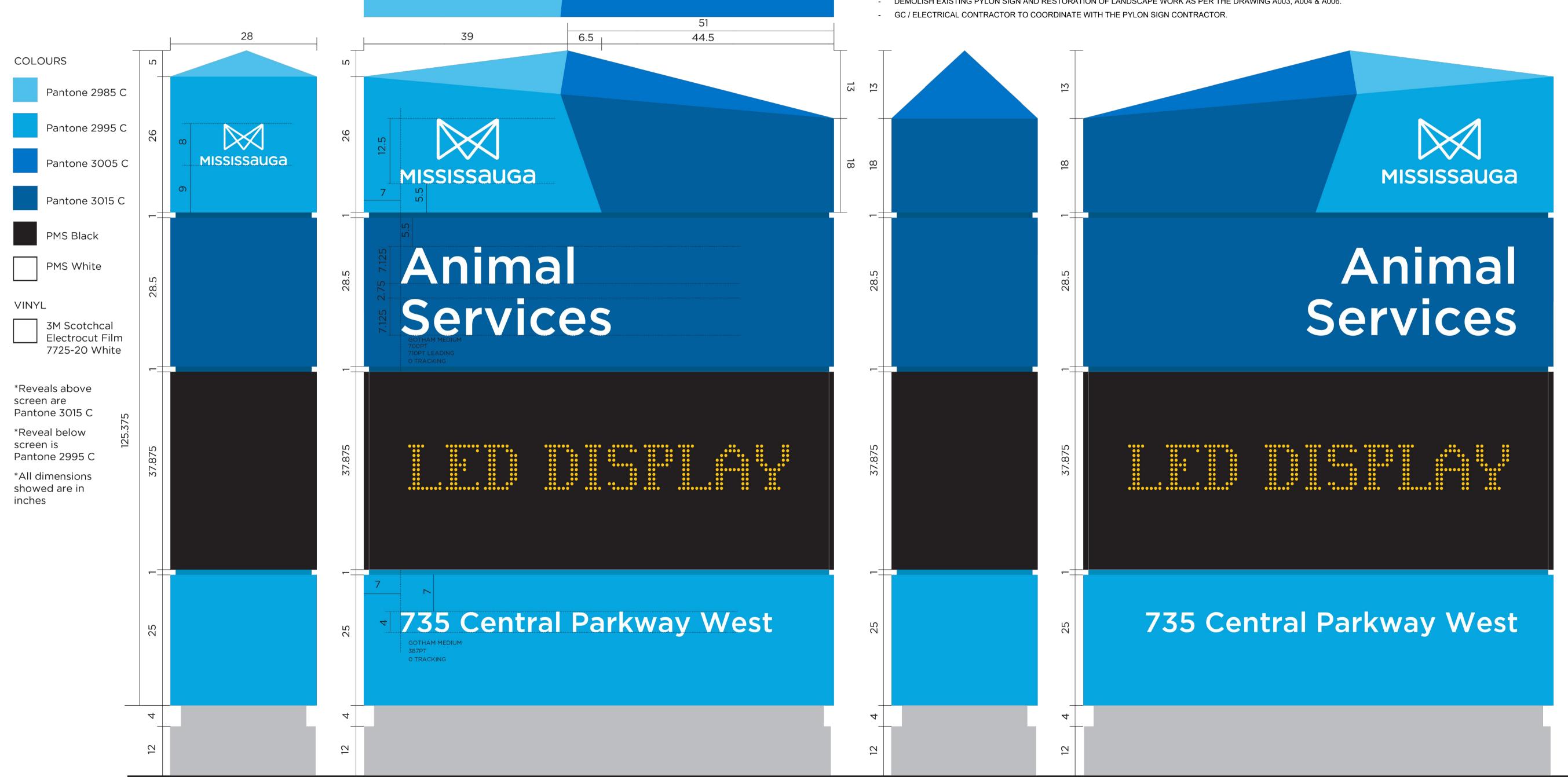
52.375

51

THE NEW PYLON SIGN TO BE COVERED UNDER CASH ALLOWANCES:

- APPLY AND OBTAIN CITY OF MISSISSAUGA SIGN PERMIT.
- SUPPLY AND INSTALLATION OF NEW PYLON SIGN.
- AND INSTALLATION OF PYLON SIGN STRUCTURAL FRAMING AND ASSOCIATED CONCRETE FOUNDATION

ANGLED PEAK FACES ROAD



NOTE:

- ALL EXPOSED HARDWARE TO BE PAINTED TO MATCH FACE COLOUR. COLOURS TO MATCH STANDARD PALETTE AS PROVIDED ABOVE.
- PROVIDE SAMPLES FOR APPROVAL BEFORE PRODUCTION.
- OUTLINE CABLING SCOPE: PYLON SIGN REQUIRES "SINGLE MODE" FIBRE CABLE WITH 2 SC FIBRE PORTS WITH A TERMINATED CABLE AT BOTH ENDS AND POWER IN SIGN.

ANGLED PEAK FACES ROAD

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PRELIMINARY DESIGN CLIENT REVIEW	21 JUL. 2023
2	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 2023
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4	ISSUED FOR BUILDING PERMIT	01 NOV. 2023
5	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 2023
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8	ISSUED FOR TENDER	05 JUL. 2024

MISSISSAUGA

CENTRE

735 Central Parkway W,

ANIMAL SERVICES

RENOVATION PHASE-02 PROJECT





www.ngaa.com

FINAL ANIMAL SERVICES PYLON **GRAPHICS AND DIMENSIONS**

AS NOTED

MM 2220730

FINAL ANIMAL SERVICES PYLON SIGN DIGITAL SCREEN REQUIREMENTS

ITEMS	QTY
TWO PIXELATED SIGN BOARDS MANUFACTURED BY MEDIA RESOURCES, MODEL: VISION IQ 2 UNISTRUT CABINET ASSEMBLY 10.67MM SMD.	QTY 2
MEDIA PLAYER	ADVANTECH ARK-1124
RECEIVER CARD (RXD201 V3.11 OR HIGHER) WITH HUB	QTY 1
LED CONTROLLER (K PLAYER)	QTY 1
MOXA REMOTE RELAY SYSTEM	QTY 1
CONTROL CABINET POWER SUPPLY (12V)	QTY 1
CORTEX BOX MOUNTED AT BASE OF SIGN (WATER REPELLENT CASE WITH PROPER AIRFLOW CONTROL, CSA CERTIFIED) WITH ACCESS HATCH FOR MAINTENANCE. TO BE REVIEWED AND APPROVED BY CITY. NOTE: CORTEX BOX NOT TO BE LOCATED INSIDE SCREEN (MRI: EXTERNAL CORTEX BOX).	QTY 1
120V QUAD OUTLET RECEPTACLE WITH WEATHERPROOF COVER AT THE BASE OF THE SIGN FOR IT SERVICING (THIS IS IN ADDITION TO THE RECEPTACLES REQUIRED FOR THE DIGITAL SCREEN). RESERVE 1 OUTLET FOR THE MEDIA PLAYER, 1 OUTLET FOR THE INTELLIGENT POWER SUPPLY AND 2 OUTLETS FOR IT SERVICING. NOTE: OUTLETS TO BE FULLY ACCESSIBLE AT THE BASE OF SIGN WITH ACCESS PANEL FOR SERVICING.	QUAD OUTLET
ELECTRICAL CONNECTION	NEW
DATA CONNECTION	NEW

CORTEX BOX TO CONTAIN:

- ADVANTECH MEDIA PLAYER
- MRI K-PLAYER
- IP ENABLED POWER SWITCH
- AC TO DC CONVERTER
- THE NECESSARY SIMPLE NETWORK SWITCHING MECHANISM FOR THE DEVICES TO TALK TO EACH OTHER WITHIN
- THE BOX ITSELF THAT IS WEATHERPROOF FOR CANADIAN OUTDOOR STRUCTURE, INCLUDING PROPER AIRFLOW CONTROL, PROPER WATER PREVENTION

CONNECTORS FOR 1 IN-COMING POWER CABLE; 2 IN-COMING DATA CABLES AND 2 OUT-GOING DATA CABLES.

MRI Screen Spec:

Specifications:

Remote Diagnostics

Webcam Monitoring

Smartlink Integration

Display Configuration
Total Number of Faces

Crating

Remote Power Cycling

Cabinet Size 4'2.4"H x 7'4.2"W x 9.125"D **LED Viewing Area** 4'2.4"H x 7'4.2"W SMD (3-in-1 RGB) >9,000 NITs Pixel configuration **Maximum Brightness** 160°H x 160°V Viewing Angle Power Input Per Face 2.23kW (Avg: 0.69kW) 20.3A (Avg:6.3A) 120 V Single Phase) 120 H x 210 W **Amp Input Per Face LED Display Matrix Pixels Per Face** 25200 **Thermal Management** Rear Vent and Fans System Service Front Service IP67 (front and rear) **Ingress Protection** Aluminum extrusion system with black powder coat trim and mill finish backing panel
Photocell auto-adjust **Box Construction Light Sensor** Weight (lbs) approx. 310 lbs *Requires a minimum 3" of space behind the display for venting Selected Options: 5 yr parts/ 10 yr parts availability (10 year parts availability guarantee)
1 Year On-Site Labor Warranty Parts Warranty **Onsite Labour Warranty** Included **Data Redundancy** Receiver Redundancy Included **Controller Redundancy** N/A **Photocell Redundancy Control System Option** Embedded PC* Connectivity Ethernet** Vision iQ Editor(Media Resources) Software Available On Request **AC Surge Protection**

52 Monitored Events+Alerting

GUARDIANiQ Watchdog

not ordered

Included

Double Face Display(s)

DIMENSIONS TO BE BASED ON NEW PYLON SIGN GRAPHICS DIMENSIONS AS SHOWED ON DRAWINGS A007

NEW DIGITAL SCREEN CABINET

/10.67mm SMD





ANIMAL SERVICES

CENTRE **RENOVATION PHASE-02**

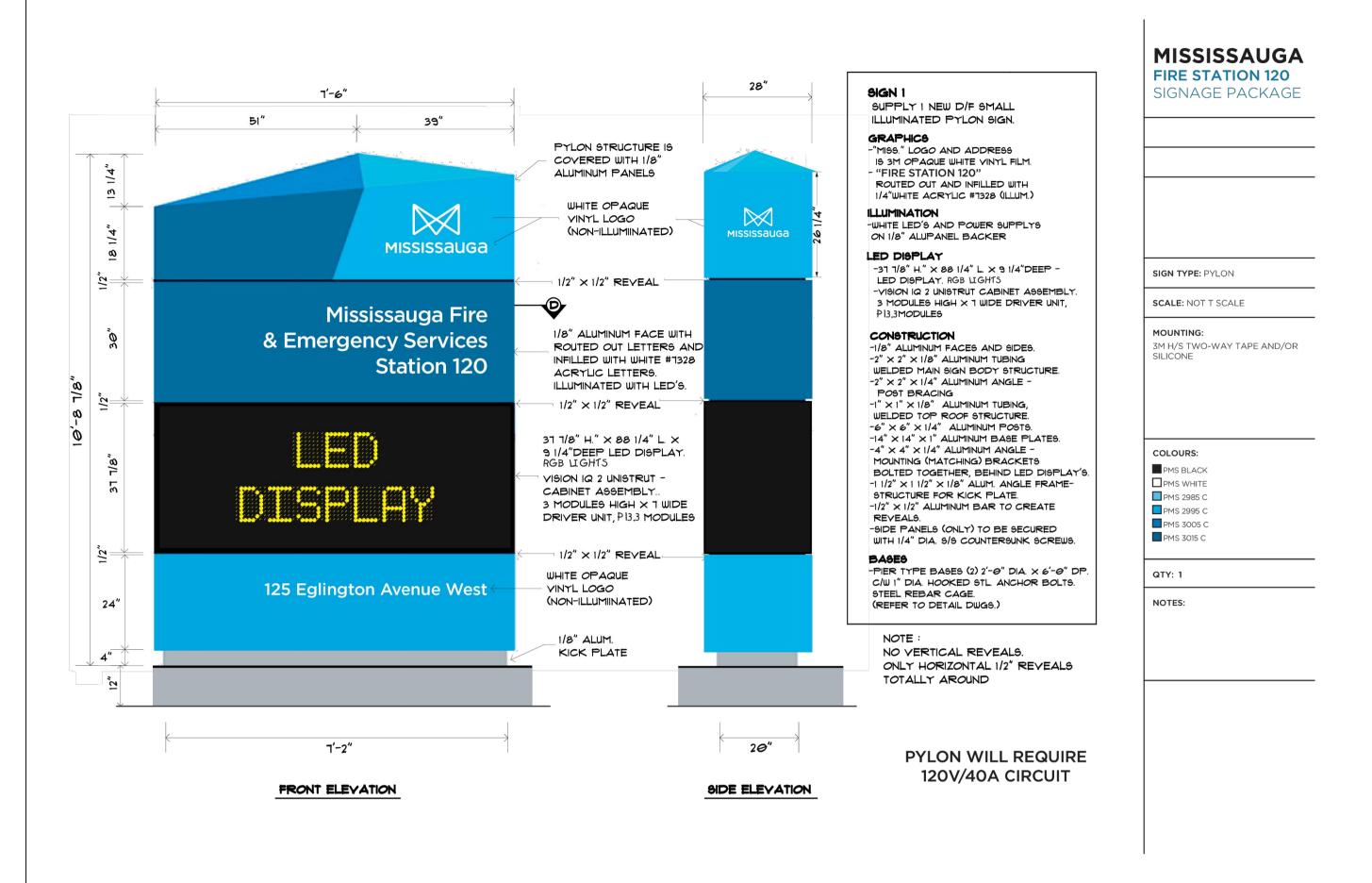
PROJECT 735 Central Parkway W,

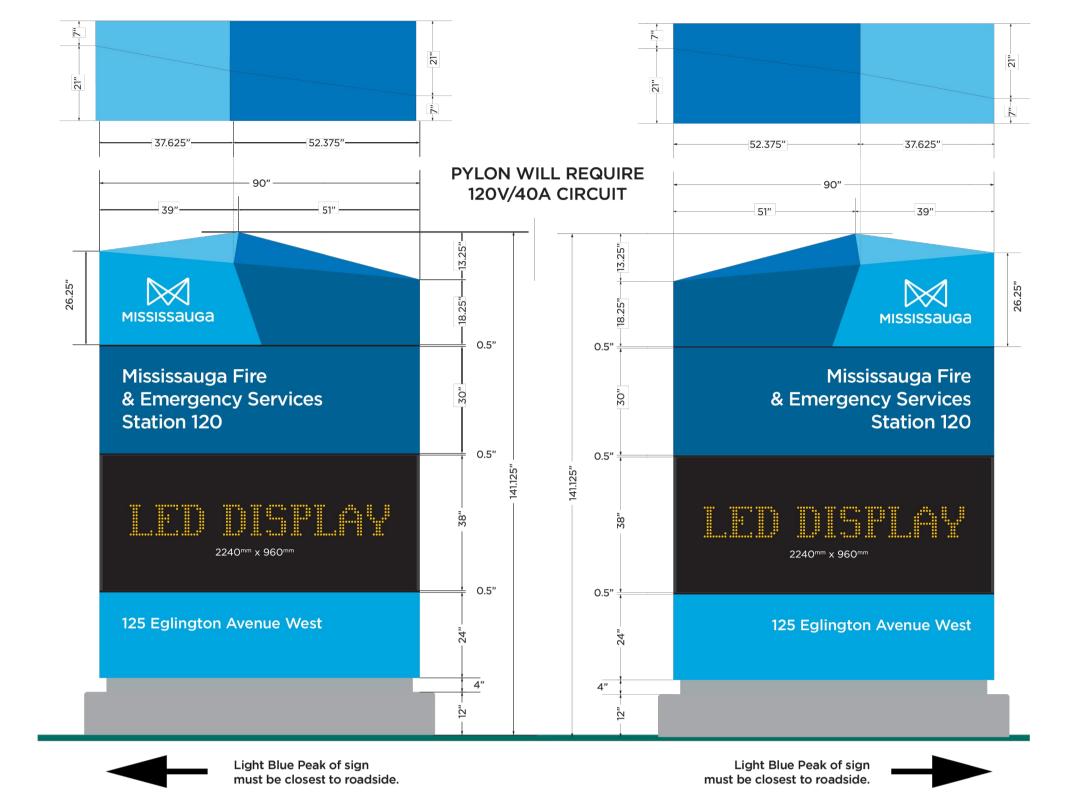
Mississauga, ON L5C 4H4

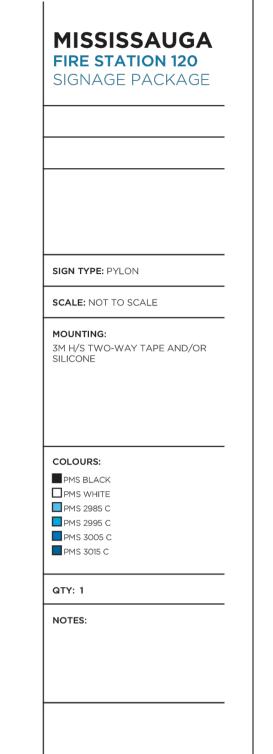


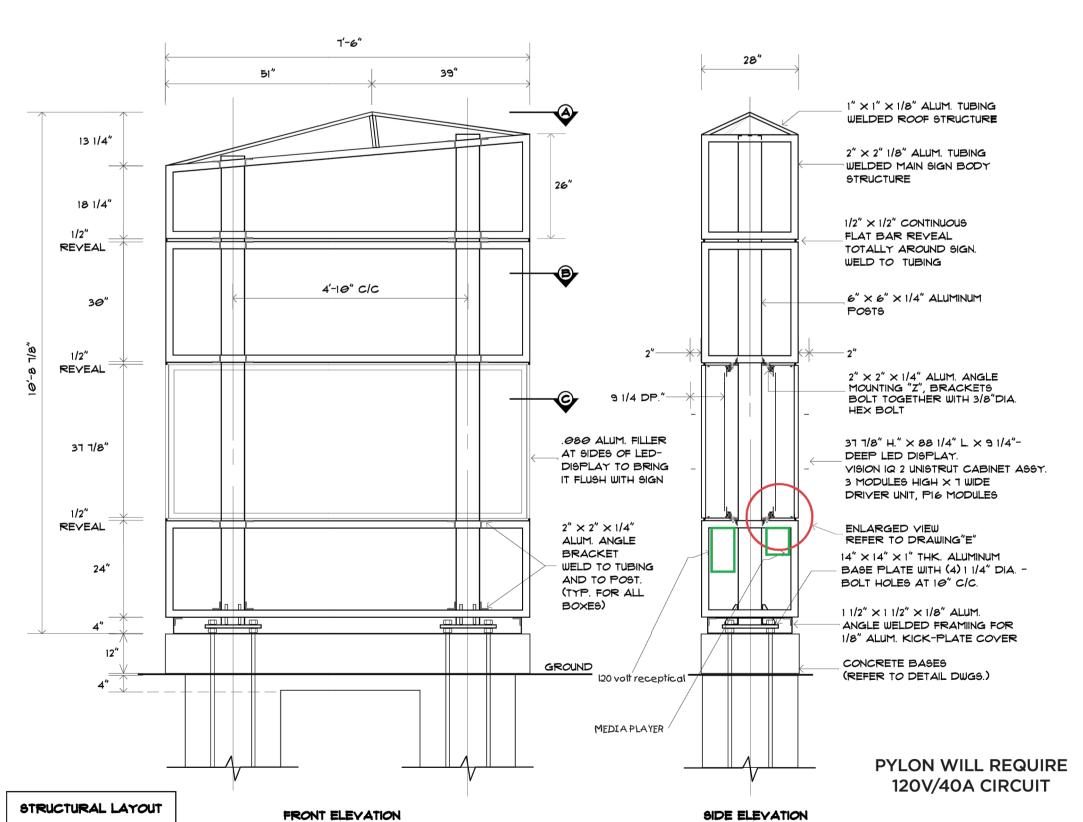
FINAL ANIMAL SERVICES PYLON SIGN DIGITAL SCREEN REQUIREMENTS

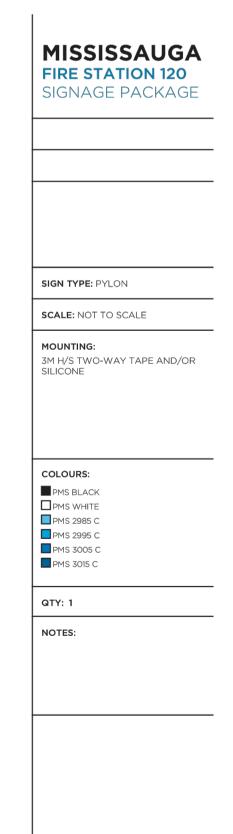
CITY OF MISSISSAUGA PYLON SIGN DESIGN TEMPLATE (FOR REFERENCE USE ONLY)

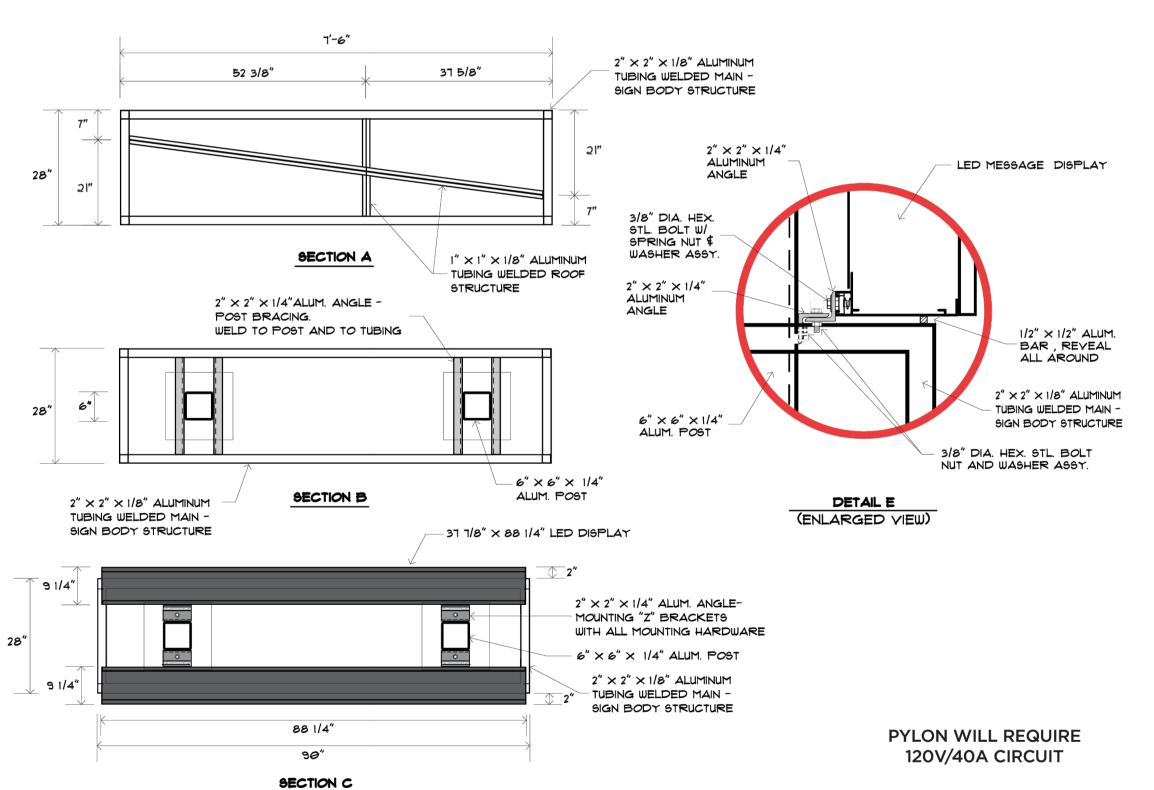


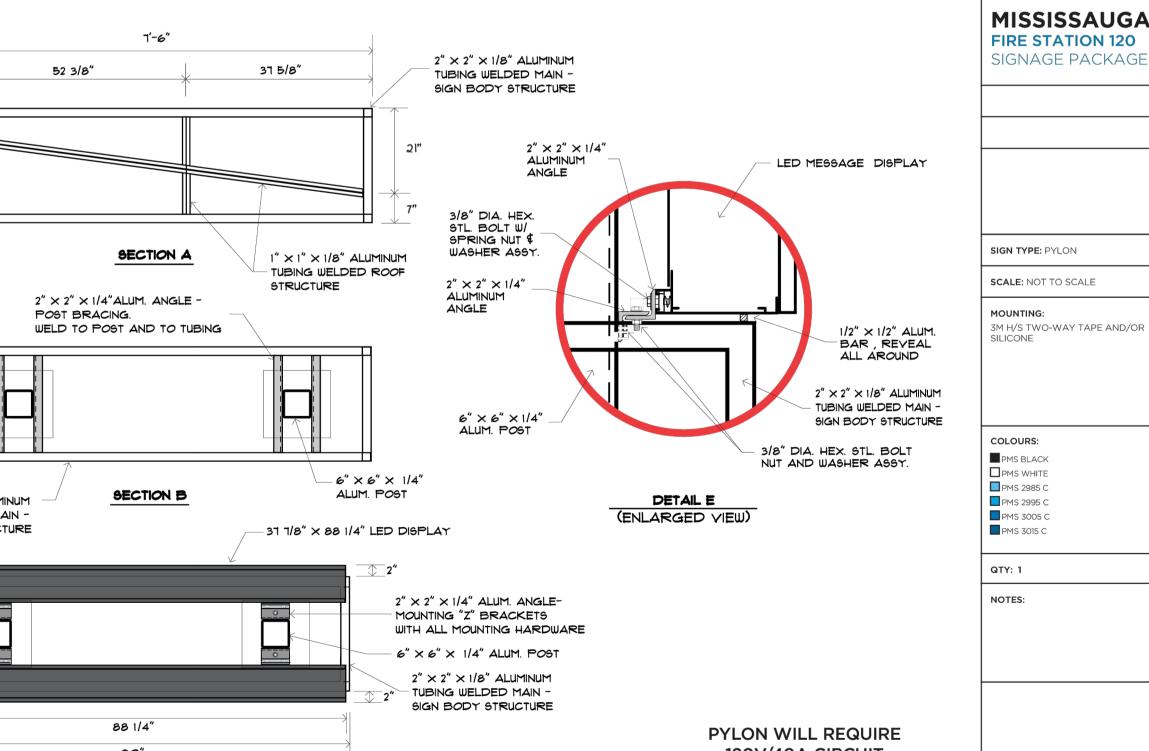












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	8	ISSUED FOR TENDER	05 JUL. 2024
SISSAUGA			
STATION 120			
AGE PACKAGE			
AOLTACKAOL			
		VISIONS	
	PRO	JECT	
PE: PYLON			
IOT TO SCALE			

MISSISSAUGA

CENTRE **RENOVATION PHASE-02**

PROJECT

ANIMAL SERVICES

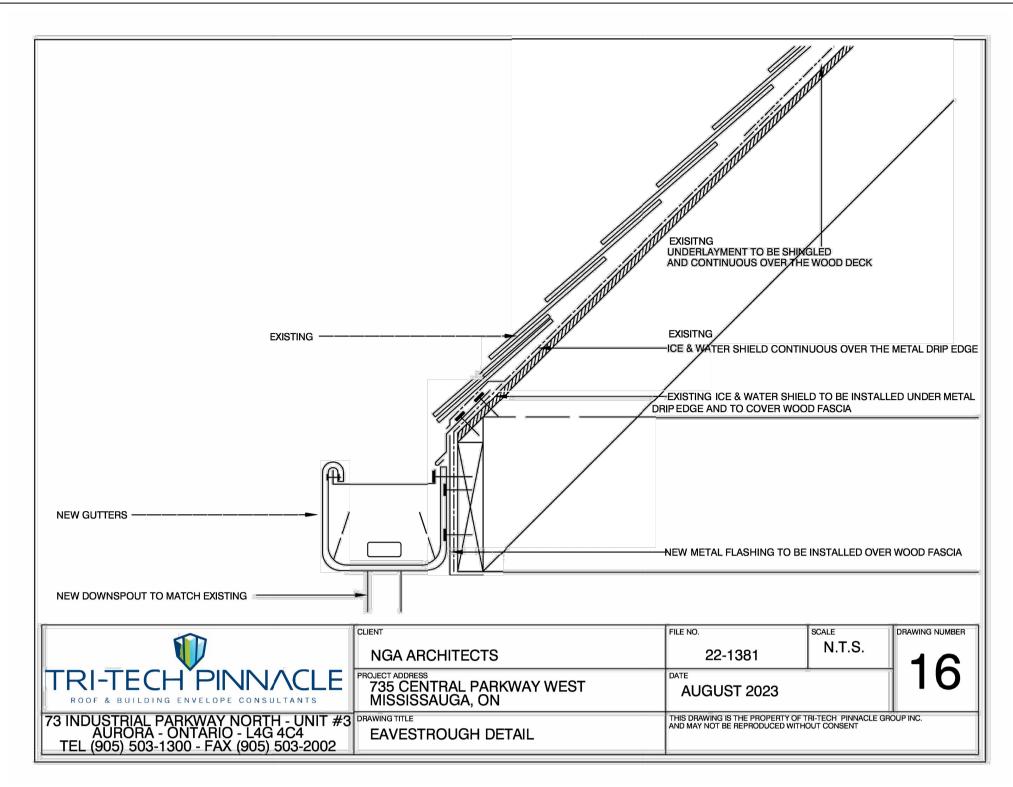
735 Central Parkway W, Mississauga, ON L5C 4H4

TEL. 416 367 8977 www.ngaa.com EXP SERVICES INC

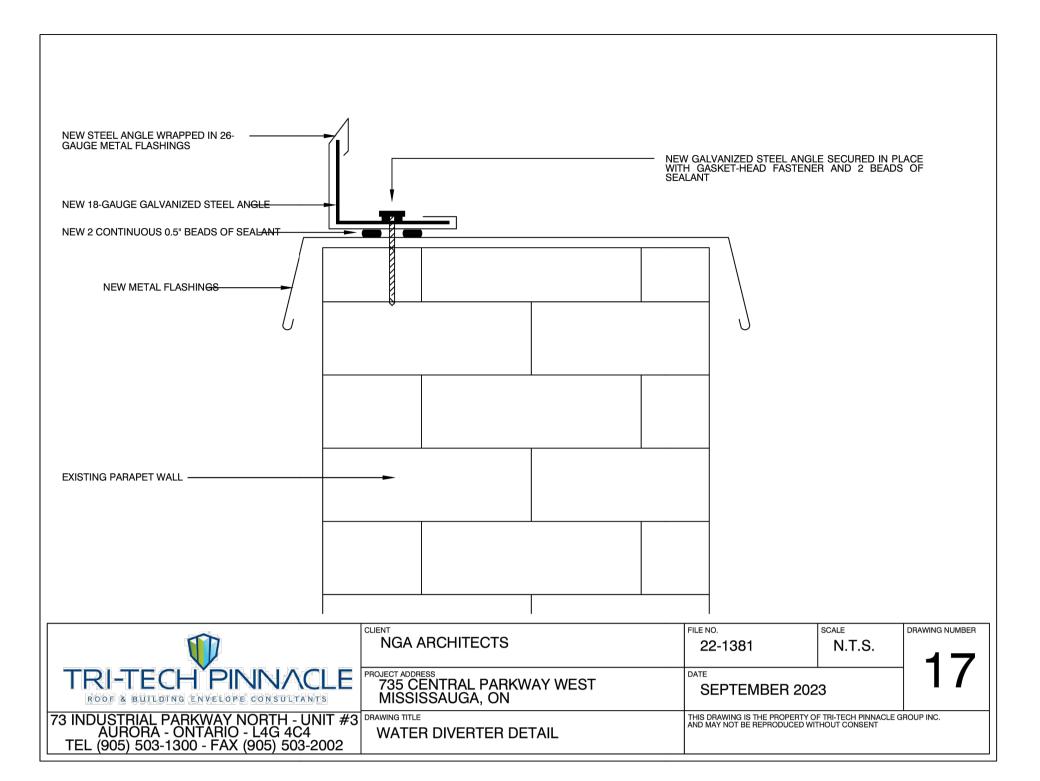
EXP SERVICES INC EXP SERVICES INC.

REFERENCE DRAWINGS FOR **NEW PYLON SIGN**

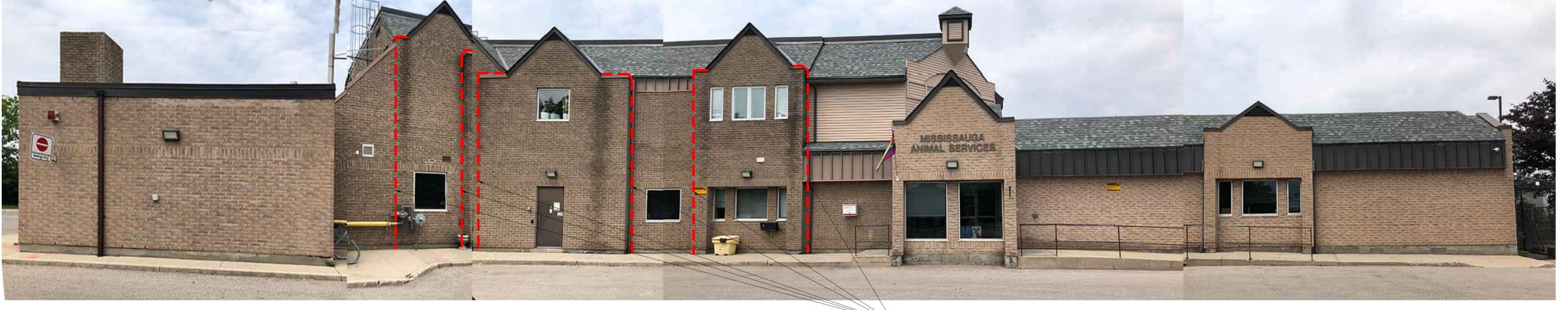
CITY OF MISSISSAUGA PYLON SIGN DESIGN TEMPLATE (FOR REFERENCE USE ONLY) **MISSISSAUGA** MISSISSAUGA **FIRE STATION 120 FIRE STATION 120** SIGNAGE PACKAGE SIGNAGE PACKAGE 4'-10" C/C 1'-6" TUBING STRUCTURE 6" × 6" × 1/4" ALUMINUM POST WHITE LED ILLUMINATION 5" H. × 3 1/2" W. × 1/2" THK. ALUM. GUSSETS 1/8" WHITE ALUPANEL LED PANEL **PYLON WILL REQUIRE** 14" × 14" × 1" ALUMINUM 120V/40A CIRCUIT 1/4" DIA. S/S COUNTERSUNK-BASE PLATE SCREW AT EACH CORNER. SLIGHT BEVEL ON EDGE OF CONCRETE (ON SIDE PANELS ONLY FOR ACCESS) SIGN TYPE: PYLON SIGN TYPE: PYLON SCALE: NOT TO SCALE SCALE: NOT TO SCALE 1/8" ALUMINUM SIDE PANELS TUBING STRUCT $2'-\theta'' \times 6'-\theta''$ DP. 3M H/S TWO-WAY TAPE AND/OR SILICONE 3M H/S TWO-WAY TAPE AND/OR $2'' \times 2'' \times 1/8''$ ALUMINUM CONCRETE BASE TUBING WELDED STRUCTURE 2 of 2" conduit 1 for main power 1 for data IOM HOR. STL. TIES COLOURS: 18" DIA. @ 16" O.C. -- 1 1/4" DIA. HOLES LED POWER SUPPLY 1/4" WHITE ACRYLIC #7328 PMS BLACK PMS BLACK - 1/8" ALUMINUM ROUTED OUT FACE INFILLED LETTERS ☐PMS WHITE ☐PMS WHITE PMS 2985 C MS 2985 C PMS 2995 C PMS 2995 C (4) 1" DIA. × 4' LONG $14'' \times 14'' \times 1''$ PMS 3005 C MS 3005 C **PYLON WILL REQUIRE** HOOKED STL. ANCHOR-ALUM. BASE-PMS 3015 C PMS 3015 C BOLTS C/W DBL. NUT 120V/40A CIRCUIT PLATE AND WASHER ASSEMBLY CROSS SECTION -D QTY: 1 QTY: 1 6" × 6" × 1/4" NOTES: (6) × 15M × 5'-6" STL. 5"H × 3 1/2" W. × 1/2" THK. VERT. REBARS (3" CLEARANCE ALL ALUMINUM GUSSETS AROUND) *** NOTE: all screw heads to be painted same color as pylon sign. BASE PLATE DETAIL NO VERTICAL REVEALS. ONLY HORIZONTAL 1/2" REVEALS *** NOTE: post to be welded through base plate TOTALLY AROUND CONC. BASE DETAIL **MISSISSAUGA FIRE STATION 120** OUNTING HARDWARE DETAIL SIGNAGE PACKAGE PAPER: LEDGER REVISIONS SECTION A-A SCALE 1:4 SIGN TYPE: PYLON REAR ISOMETRIC VIEW SCALE: NOT TO SCALE [2240] MOUNTING: 3M H/S TWO-WAY TAPE AND/OR [1953] **MISSISSAUGA** ANIMAL SERVICES **RENOVATION PHASE-02** COLOURS: PROJECT PMS BLACK [277] 1457 BLE IN UNISTRU PMS WHITE CHANNEL ALONG 735 Central Parkway W, PMS 2985 C THE VERTICAL EDGE Mississauga, ON L5C 4H4 OF THE CABINET PMS 2995 C PMS 3005 C MS 3015 C PROBE IS TYPICALLY AFFIXED TO PYLON QTY: 1 [919] NOTES: 14 13 19 SPRING NUT & MOUNTING BOLT POT P [960] TEL. 416 367 8977 FAX. 416 367 9655 MEDIA RES CES INTERNATIONAL DO NOT SCALE DRAWING OAKVILLE ONTARIO FAX: 1.905.337.9531 1387 CORNWALL N TEL: 1.800.667.4554 www.ngaa.com ™VISION IQ 2 UNISTRUT 🕏 DIMENSIONS ARE IN mm/INCHES **BINET ASSEMBLY** TOLERANCES APPLY AS SHOWN BELOW 3 MODULES HIGH MARK 3, DRIVER UNIT, P13.3 MODULES EXP SERVICES INC IG, AND THE INFORMATION CONTAINED THEREIN, IS THE CONFIDENTIAL PROPRIETARY INFORMATION OF MEDIA RESOURCES INTERNATIONAL AND REFERENCE DRAWINGS FOR T BE USED OR REPRODUCED WITHOUT APPROVAL OF MEDIA RESOURCES INTERNATIONAL. ALL RIGHTS RESERVED. **NEW PYLON SIGN** 2220730 AS NOTED



1 TYPICAL EVESTHROUGH (GUTTERS & DOWNSPOUT) DETAIL N.T.S



2 TYPICAL WATER DIVERTER DETAIL
A011 SCALE: N.T.S



3 SOUTH ELVATION- ROOF METAL DETAILS ADDITION
N.T.S



GC IS RESPONSIBLE TO SUPPLY & INSTALL THE NEW PRE-FINISHED METAL EVESTHROUGH (GUTTER & DOWNSPOT) AND WATER DIVERTER FOR EXISTING ROOF PARAPET (REFR TO DETAIL A011/1 & A011/2).

ALL METALS TO BE PRE FINISHED AND THE COLOUR TO MATCH WITH THE EXISTING ROOF METAL TRIM, GC TO CUT, PATCH & REPAIR ANY DAMAGE ROOF PARAPET TO ACCOMMODATE THESE DETAILS, M.G.A.T, TYP.



— GC IS RESPONSIBLE TO SUPPLY & INSTALL THE NEW PRE-FINISHED METAL EVESTHROUGH (GUTTER & DOWNSPOT) AND WATER DIVERTER FOR EXISTING ROOF PARAPET (REFR TO DETAIL A011/1 & A011/2).

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4 NORTH ELVATION- ROOF METAL DETAILS ADDITION
N.T.S

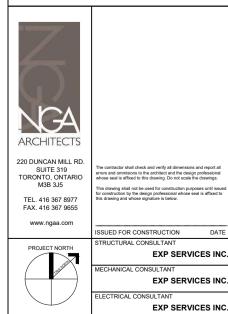


REVISIONS

05 JUL. 2024

CENTRE
RENOVATION PHASE-02
PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



NEW WATER DIVERTER AND EVESTHROUGH DETAILS FOR EXSITNG ROOF

AS NOTED

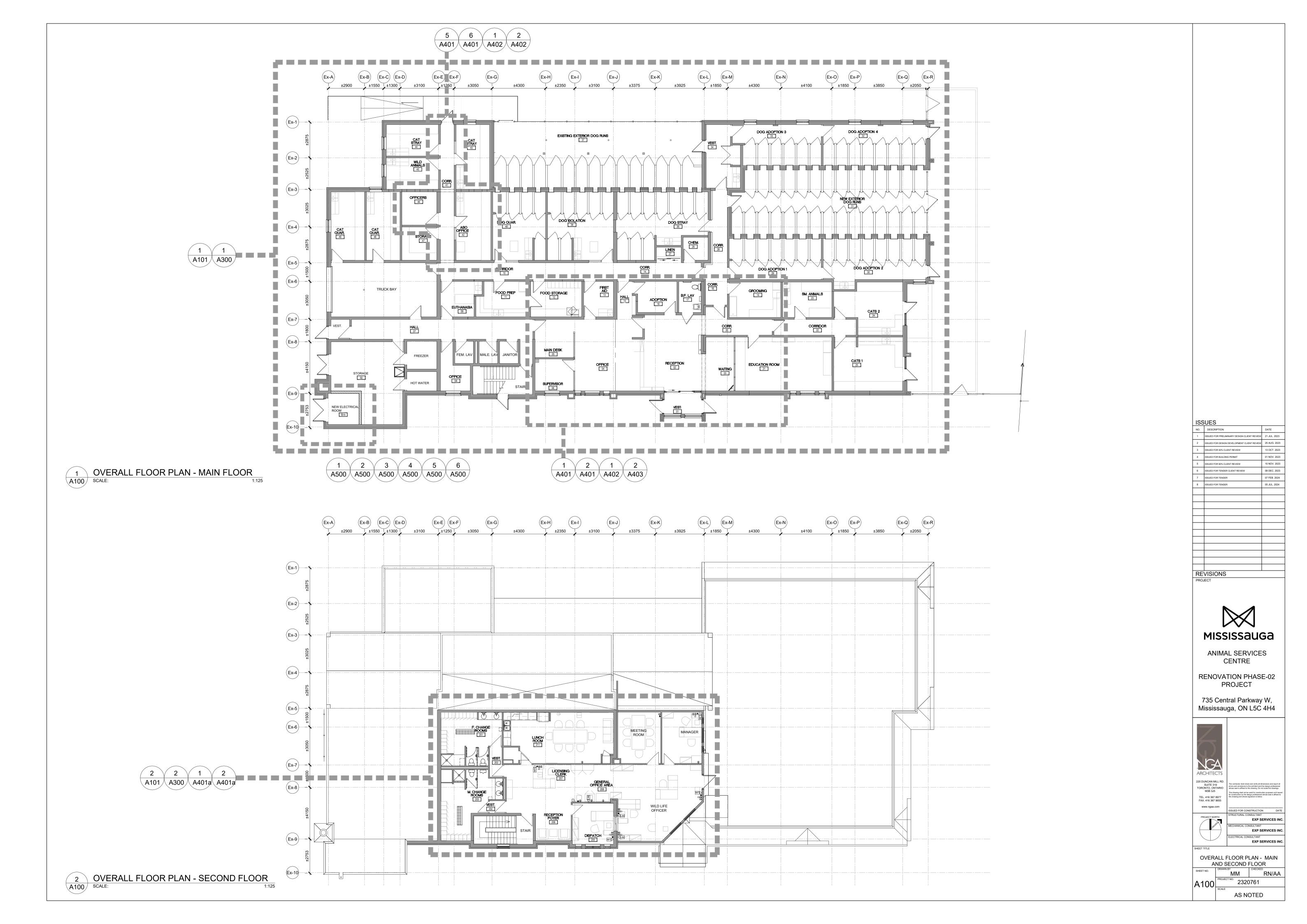
EXSITNG ROOF

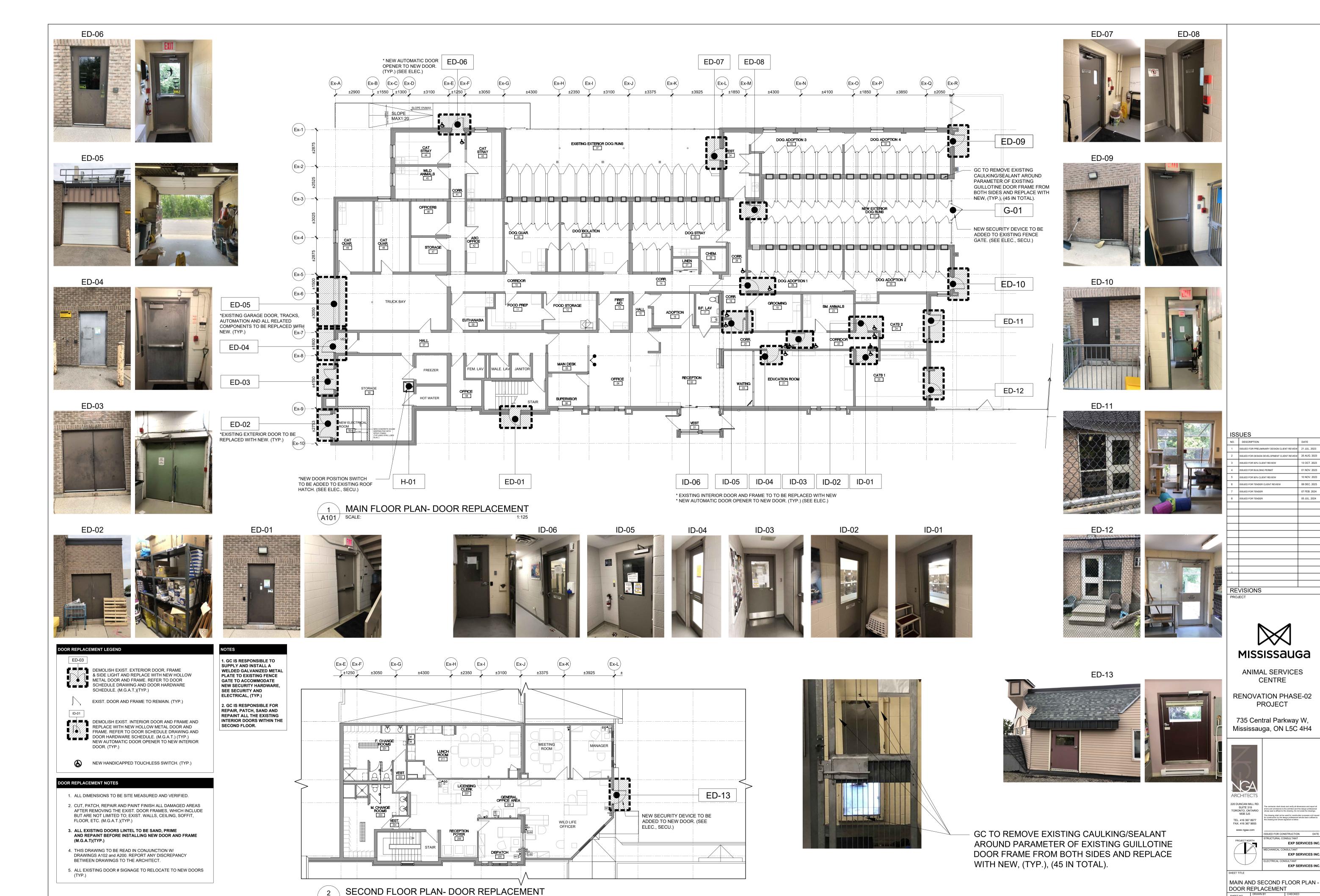
SHEET NO. DRAWN BY MM RN/AA

A011

PROJECT NO. 2220730

SCALE



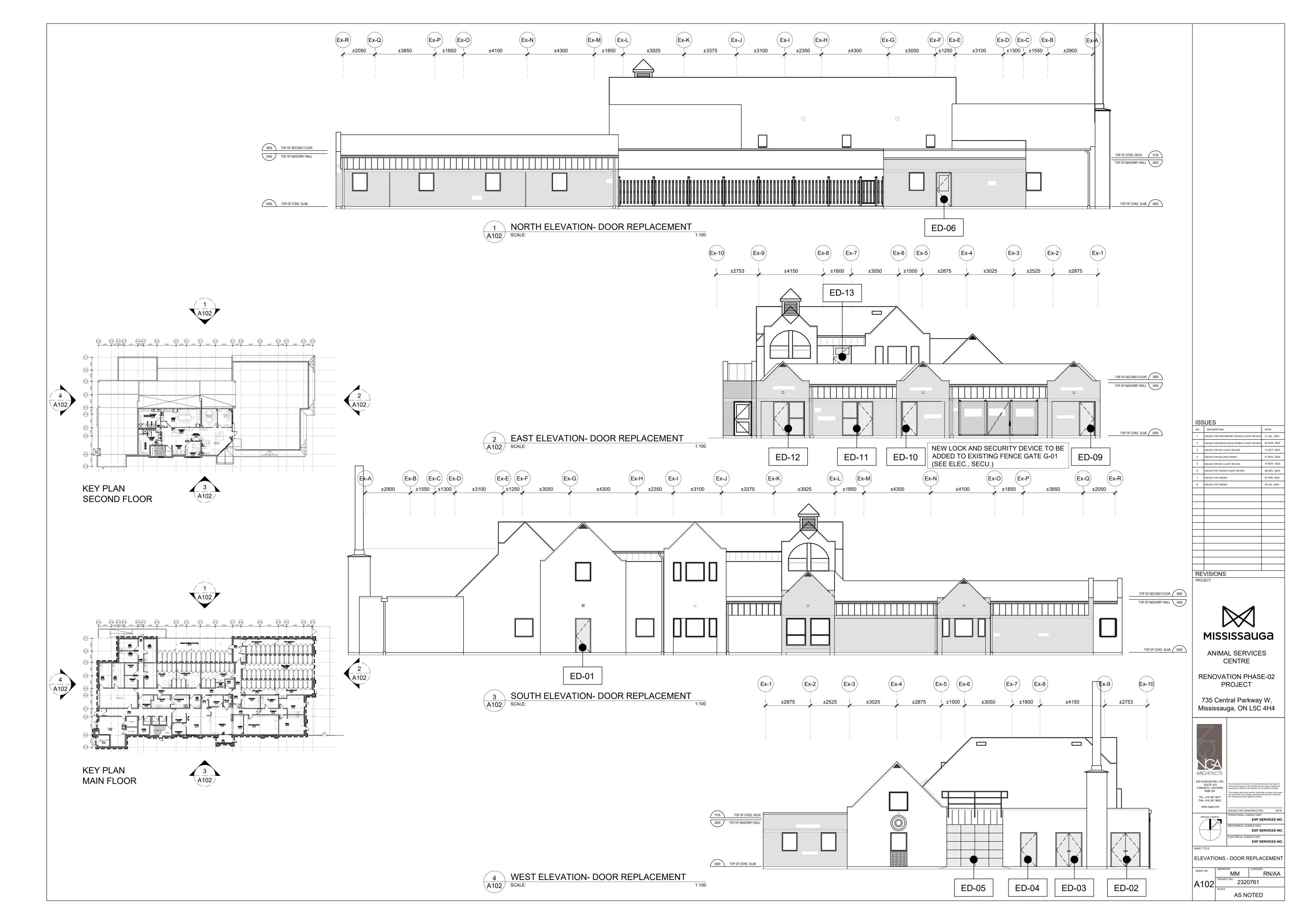


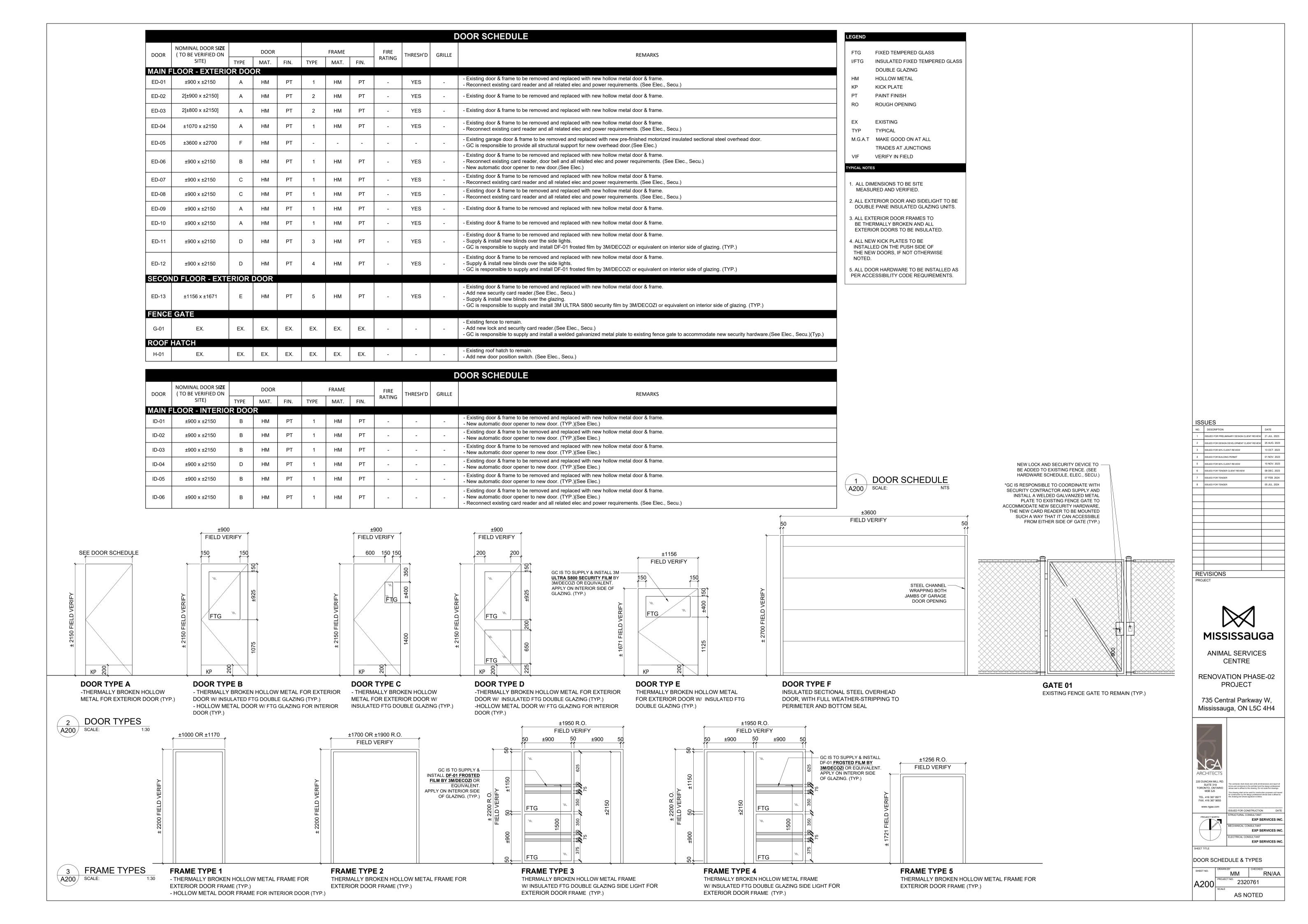
A101

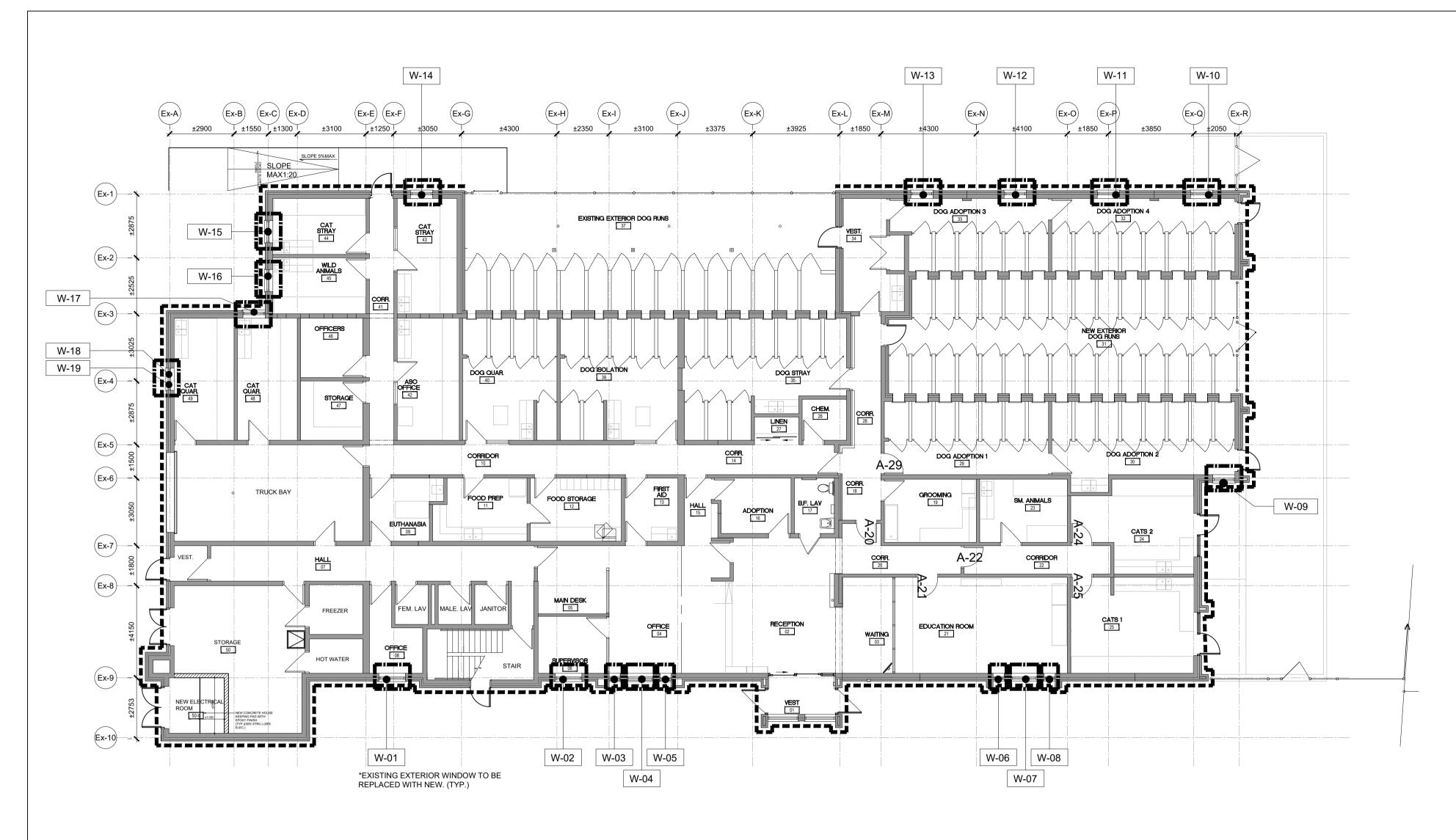
SCALE:

MM RN/AA

2320761

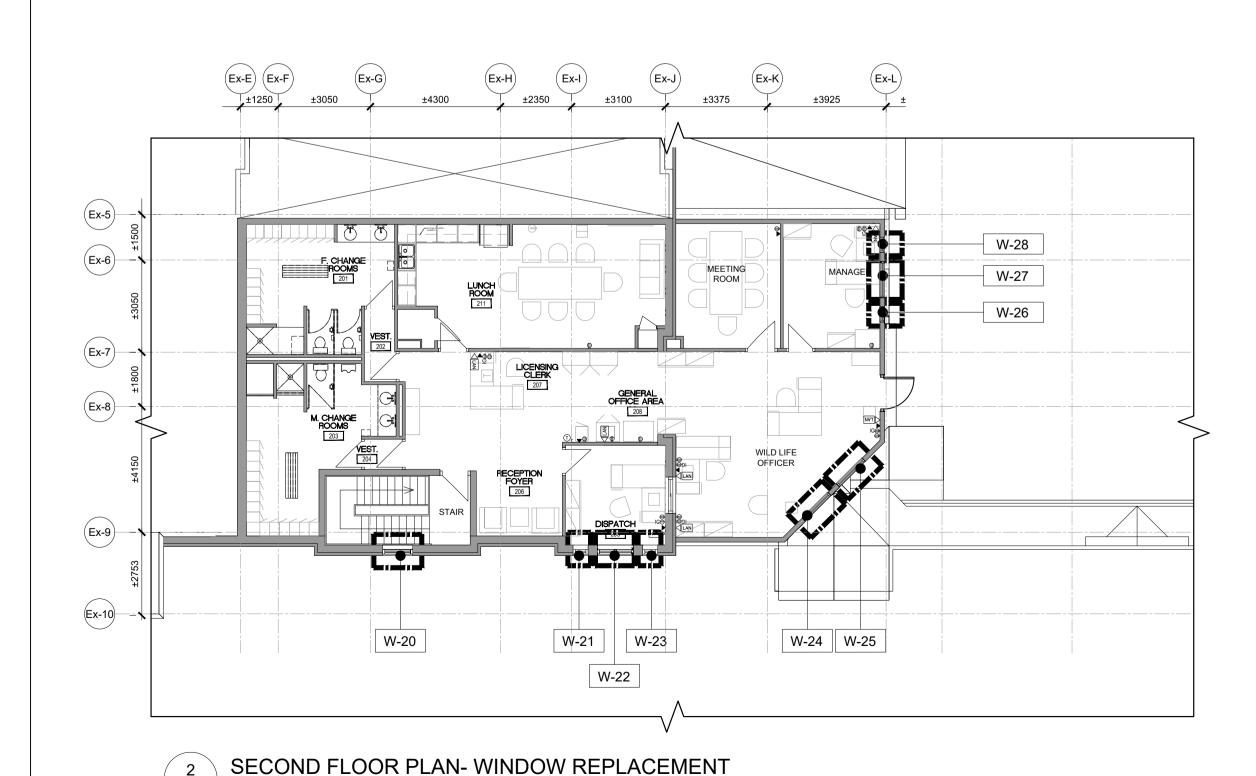






1 MAIN FLOOR PLAN- WINDOW REPLACEMENT A300 SCALE:

A300 SCALE:



GENERAL DEMOLITION LEGEND

EXIST. WALL / PARTITION TO REMAIN (TYP.)

EXISTING WINDOWS AND FRAMES TO REMAIN.

NEW WINDOWS & FRAMES.

REFERENCE WINDOW SCHEDULE W-01 FOR FULL DETAILS.

GC IS RESPONSIBLE TO REMOVE THE EXISTING CEMENT PARGING ■■■■ BELOW THE BRICK WALL AREA AROUND THE PERIMETER OF ENTIRE BUILDING ENVELOP AND REPLACED WITH NEW CEMENT PARGING, (M.G.A.T), (TYP.)



EXISTING WINDOWS & FRAMES AND WINDOW SILL TO BE REMOVED AND REPLACED WITH NEW. PATCH, REPAIR AND PAINT AROUND THE PERIMETER AS NECESSARY. DEMOLISH AND DISPOSE OF EXIST. BLINDS. (M.G.A.T)(TYP.)

EXIST./EX. EXISTING **TYPICAL VERIFY IN FIELD** M.G.A.T. MAKE GOOD ON AT ALL TRADES AT JUNCTIONS

GENERAL DEMOLITION NOTES

- 1. ALL DIMENSIONS TO BE SITE MEASURED AND VERIFIED.
- 2. GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH ALL DAMAGED AREAS AFTER REMOVING THE EXIST. WINDOWS, WHICH INCLUDE BUT ARE NOT LIMITED TO; EXIST. WALLS, CEILING, SOFFIT, SILL, ETC. (M.G.A.T.)(TYP.)
- 3. GC IS RESPONSIBLE TO SUPPLY AND INSTALL TEMPORARY SUPPORT AT ALL EXIST. T-BAR FRAMES AT EXIST. WINDOWS. (M.G.A.T.)(TYP.)
- 4. GC IS RESPONSIBLE TO REMOVE ALL EXIST. ACOUSTIC CEILING TILES BEFORE DEMOLITION OF WINDOWS START, AND REINSTALL SAID AC TILES BACK INTO THEIR ORIGINAL PLACE AFTER NEW WINDOWS ARE INSTALLED. (M.G.A.T.)(TYP.)
- 5. GC IS RESPONSIBLE TO WHERE EXIST. ACOUSTIC CEILING TILES ARE DISTURBED TO PERFORM NECESSARY ALTERATIONS, THEY MUST BE RETURNED TO A CONDITION **EQUIVALENT TO BEFORE THEY WERE** DISTURBED. ACOUSTIC CEILING TILES DAMAGED DURING THE ALTERATIONS MUST BE REPLACED. (M.G.A.T.)(TYP.).
- 6. GC IS RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED TEES, FRAMING SUPPORT, BRACING, MAIN TEES, CARRYING CHANNELS, ACCESSORIES AND ALL RELATED COMPONENTS. (M.G.A.T.)(TYP.)
- 7. GC IS RESPONSIBLE TO SUPPLY AND INSTALL THERMALLY BROKEN INSULATED PRE-FINISHED ALUMINUM TRIM PIECES (INTERIOR & EXTERIOR) AROUND NEW WINDOWS (TYP.)

REVISIONS

NO. DESCRIPTION ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023 ISSUED FOR 50% CLIENT REVIEW ISSUED FOR BUILDING PERMIT 07 FEB. 2024 05 JUL. 2024 8 ISSUED FOR TENDER



CENTRE

RENOVATION PHASE-02

PROJECT

ANIMAL SERVICES

735 Central Parkway W,

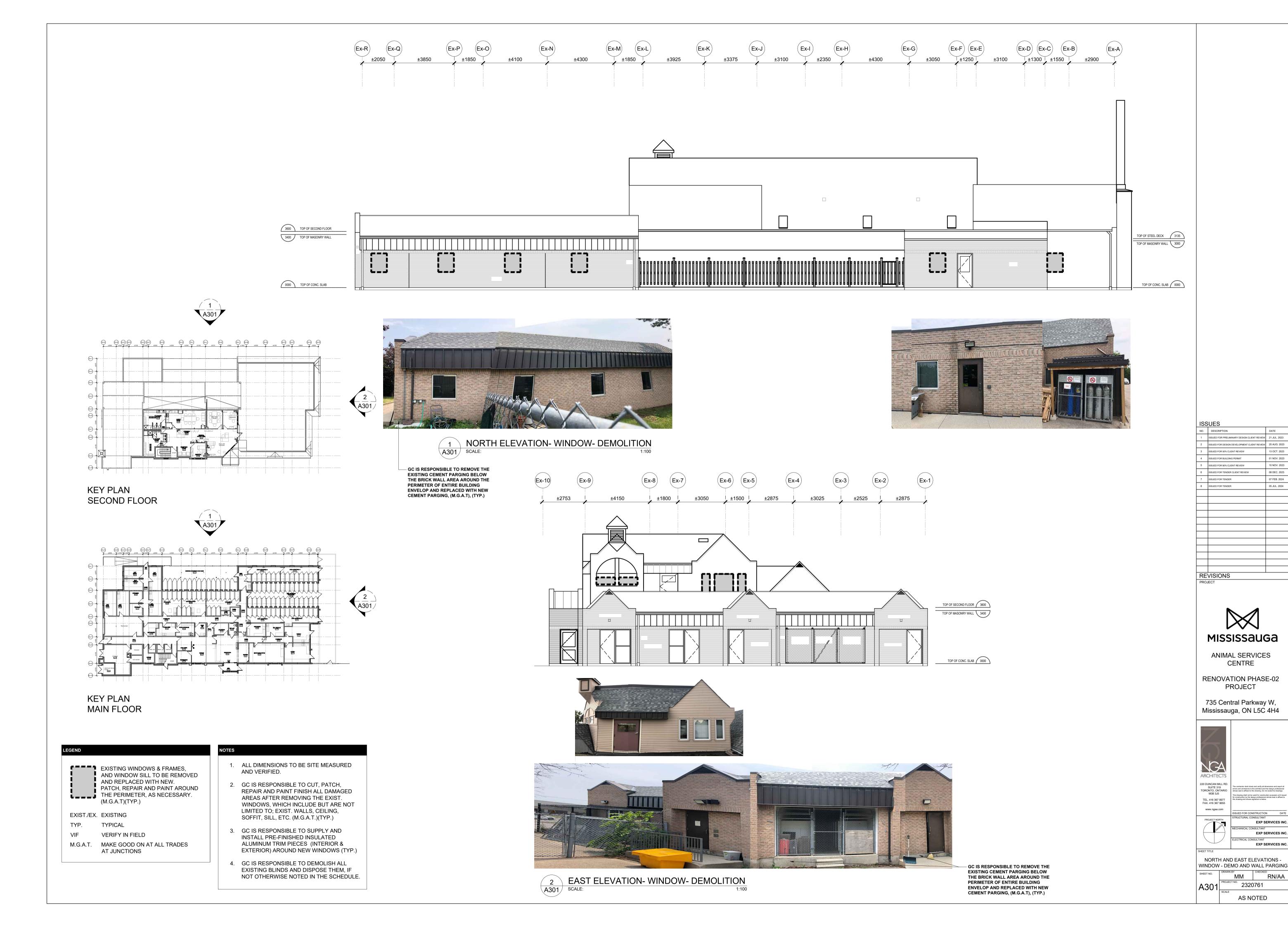
Mississauga, ON L5C 4H4

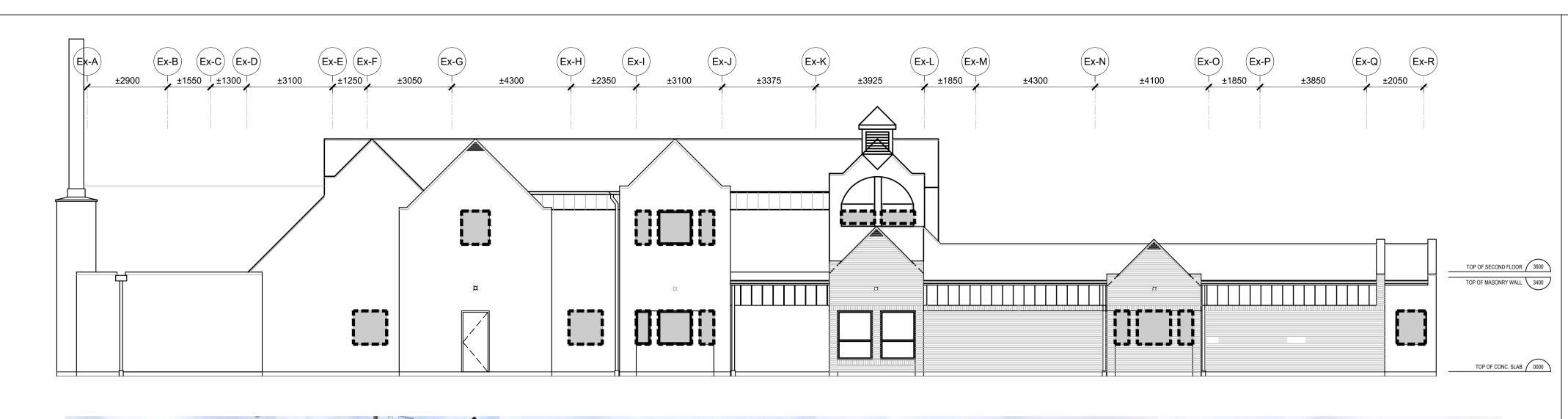


EXP SERVICES INC EXP SERVICES INC. EXP SERVICES INC.

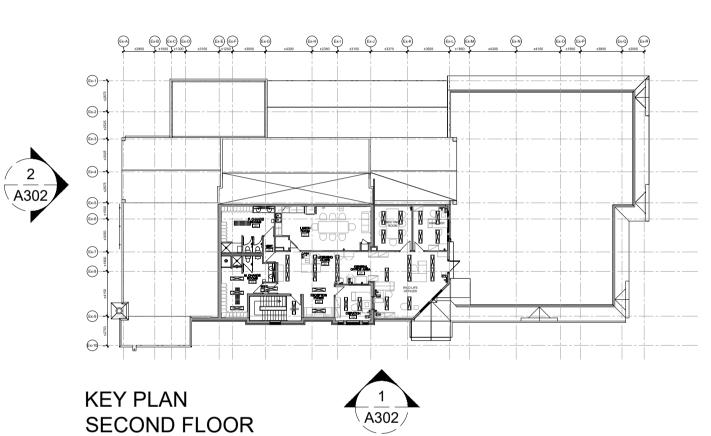
MAIN AND 2ND FLOOR PLAN - WINDOW REPLACEMENT AND WALL PARGING

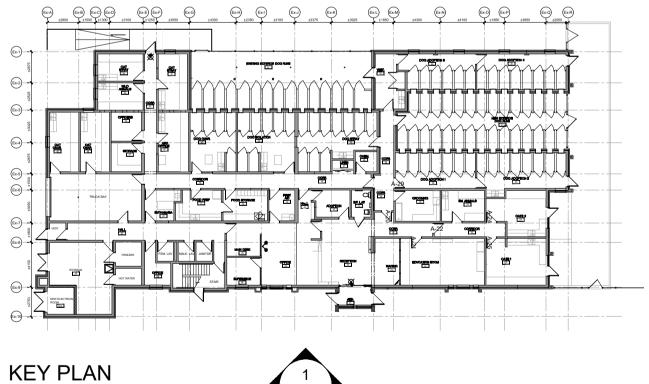
MM 2320761 A300 AS NOTED











EXISTING WINDOWS & FRAMES, AND WINDOW SILL TO BE REMOVED AND REPLACED WITH NEW. PATCH, REPAIR AND PAINT AROUND THE PERIMETER, AS NECESSARY.

EXIST./EX. EXISTING

 $\begin{array}{|c|} \hline 2 \\ \hline A302 \\ \hline \end{array}$

TYP. TYPICAL

VIF VERIFY IN FIELD

(M.G.A.T)(TYP.)

MAIN FLOOR

M.G.A.T. MAKE GOOD ON AT ALL TRADES AT JUNCTIONS

NOTES 1. ALL DIMENSIONS TO BE SITE MEASURED AND VERIFIED.

2. GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH ALL DAMAGED AREAS AFTER REMOVING THE EXIST. WINDOWS, WHICH INCLUDE BUT ARE NOT LIMITED TO; EXIST. WALLS, CEILING, SOFFIT, SILL, ETC. (M.G.A.T.)(TYP.)

3. GC IS RESPONSIBLE TO SUPPLY AND INSTALL PRE-FINISHED INSULATED ALUMINUM TRIM PIECES (INTERIOR & EXTERIOR) AROUND NEW WINDOWS (TYP.)

EXISTING BLINDS AND DISPOSE THEM, IF

NOT OTHERWISE NOTED IN THE SCHEDULE.

4. GC IS RESPONSIBLE TO DEMOLISH ALL

GC IS RESPONSIBLE TO REMOVE THE -EXISTING CEMENT PARGING BELOW THE BRICK WALL AREA AROUND THE PERIMETER OF ENTIRE BUILDING ENVELOP AND REPLACED WITH NEW CEMENT PARGING, (M.G.A.T), (TYP.)

GC IS RESPONSIBLE TO REMOVE THE

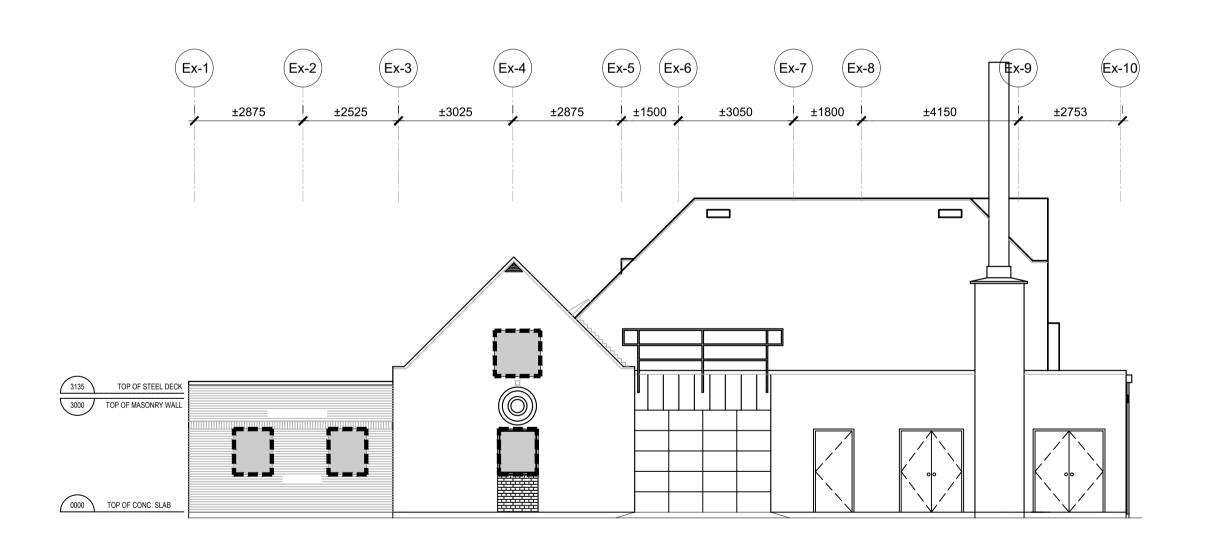
EXISTING CEMENT PARGING BELOW

THE BRICK WALL AREA AROUND THE

ENVELOP AND REPLACED WITH NEW

CEMENT PARGING, (M.G.A.T), (TYP.)

PERIMETER OF ENTIRE BUILDING





ISSUES				
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8	ISSUED FOR TENDER	05 JUL. 20		

REVISIONS

GC IS RESPONSIBLE TO REMOVE THE

THE BRICK WALL AREA AROUND THE

ENVELOP AND REPLACED WITH NEW

EXISTING CEMENT PARGING BELOW

PERIMETER OF ENTIRE BUILDING

CEMENT PARGING, (M.G.A.T), (TYP.)



ANIMAL SERVICES

CENTRE **RENOVATION PHASE-02 PROJECT**

735 Central Parkway W, Mississauga, ON L5C 4H4



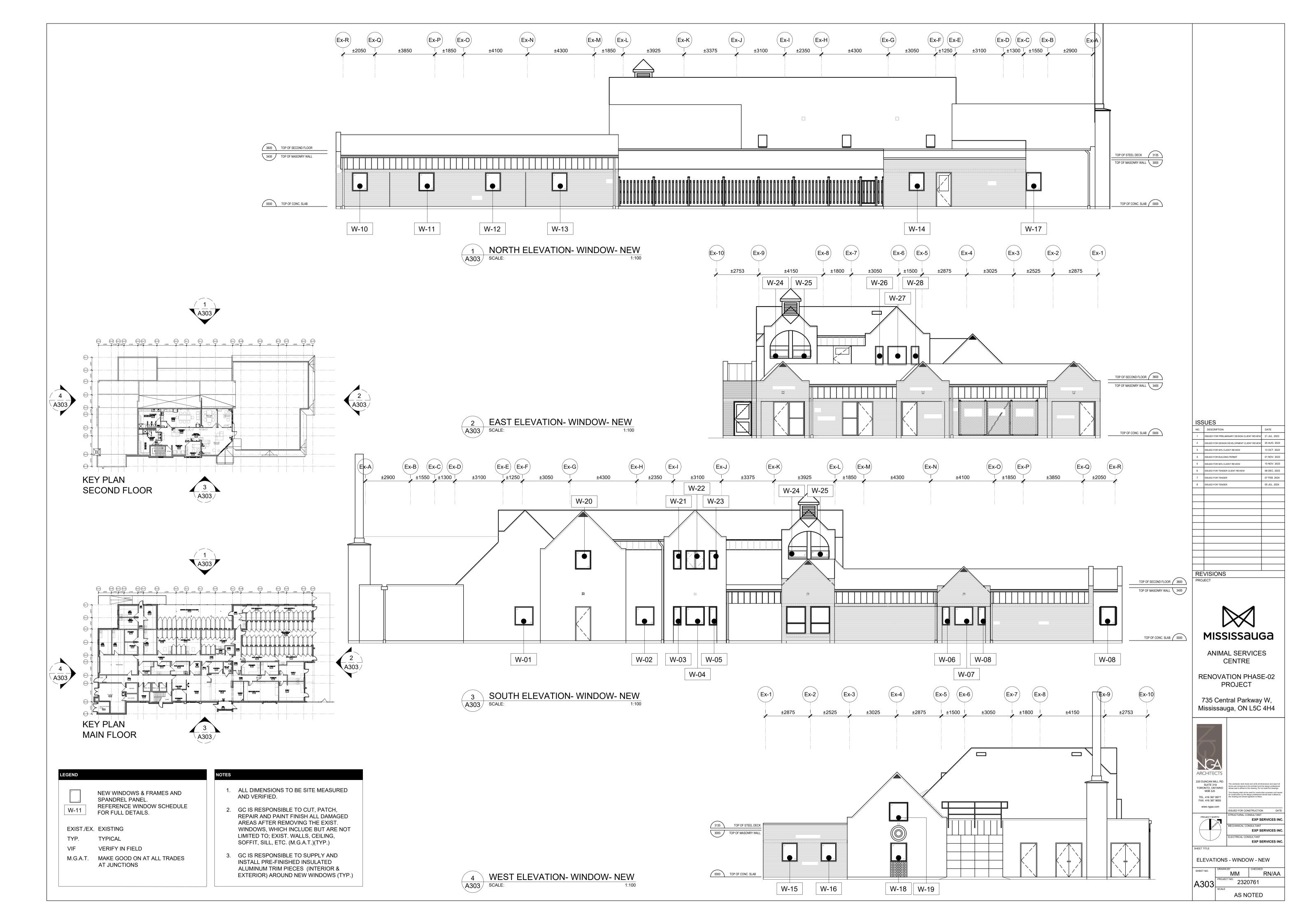
TEL. 416 367 8977 FAX. 416 367 9655 www.ngaa.com

EXP SERVICES INC EXP SERVICES INC EXP SERVICES INC.

SOUTH AND WEST ELEVATIONS -WINDOW - DEMO AND WALL PARGING

MM RN/AA 2320761 AS NOTED

2 WEST ELEVATION- WINDOW- DEMOLITION SCALE:



WINDOW SCHEDULE WINDOW NO. ROUGH OPENING TO BE VERIFIED ON SITE MAT. FINISH INSECT SCREEN BLIND MAIN FLOOR W-01 ± 1200W x ± 1200H A AL CA - FREMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	AL ALUMINUM CA CLEAR ANODIZED FTG FIXED TEMPERED GLASS HM HOLLOW METAL KP KICK PLATE PT PAINT FINISH RO ROUGH OPENING EX EXISTING
	RO ROUGH OPENING
W-01 ± 1200W x ± 1200H A AL CA - → REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
	EX EXISTING
W-02 ± 1200W x ± 1200H A AL CA - FEMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	TYP TYPICAL
W-03 ± 500W x ± 1200H B AL CA - ← REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	M.G.A.T MAKE GOOD ON AT ALL TRADES AT JUNCTIONS
W-04 ± 1200W x ± 1200H A AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	VIF VERIFY IN FIELD
W-05 ± 500W x ± 1200H B AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	NOTES
W-06 ± 500W x ± 1200H B AL CA - ← REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	- GC IS RESPONSIBLE TO SUPPLY AND INSTALL NEW 13 mm SOLID
W-07 ± 1200W x ± 1200H A AL CA - FEMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	SURFACE SILL ON 13 mm EXTERIOR GRADE MARINE PLYWOOD FOR ALL NEW
W-08 ± 500W x ± 1200H B AL CA - FEMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	WINDOWS. REFER TO DETAIL SECTION 3/A400.
W-09 ± 1000W x ± 1200H C AL CA - FEMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-10 ± 1000W x ± 1200H C AL CA	
W-11 ± 1000W x ± 1200H C AL CA	
W-12 ± 1000W x ± 1200H C AL CA	
W-13 ± 1000W x ± 1200H C AL CA	
W-14 ± 1000W x ± 1200H C AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-15 ± 1000W x ± 1200H C AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-16 ± 1000W x ± 1200H C AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-17 ± 1000W x ± 1200H C AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-18 ± 1000W x ± 1200H C AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-19 ± 1200W x ± 1200H A AL CA	Lonovo
SECOND FLOOR	
W-20	
W-21 ± 500W x ± 1200H B AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-22 ± 1200W x ± 1200H D AL CA ✓	
W-23 ± 500W x ± 1200H B AL CA - FEMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-24 ± 1200W x ± 450H E AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-25 ± 1200W x ± 450H E AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-26 ± 500W x ± 1200H F AL CA ✓ - REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-27 ± 1200W x ± 1200H A AL CA REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	
W-28 ± 500W x ± 1200H F AL CA ✓ - REMOVE EXISTING BLINDS AND REPLACE WITH NEW (M.G.A.T.)(TYP.)	

FIXED TEMPERED GLASS

GC IS RESPONSIBLE TO SAND, PRIME AND REPAINT ALL EXISTING EXPOSED LINTEL FROM EXTERIOR SIDE BEFORE INSTALLING NEW WINDOW (M.G.A.T.)(TYP.)

- GC IS TO DEMOLISH EXISTING PLAM TRIM AROUND WINDOW PERIMETER. GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH ALL DAMAGED MASONRY UNIT (M.G.A.T.)(TYP.)

GC IS RESPONSIBLE TO SAND, PRIME AND REPAINT ALL **EXISTING LINTEL BEFORE** INSTALLING NEW WINDOW

- GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH

ALL DAMAGED AREAS AFTER REMOVING THE EXIST. WINDOWS,

WHICH INCLUDE BUT ARE NOT

-GC IS TO DEMOLISH EXISTING

PLAM SILL AND REPLACE WITH

ON 13 mm EXTERIOR GRADE

LIMITED TO; EXIST. WALLS, CEILING, SOFFIT, SILL, ETC.

(M.G.A.T.)(TYP.)

(M.G.A.T.)(TYP.)

MARINE PLYWOOD.

(M.G.A.T.) (TYP.)

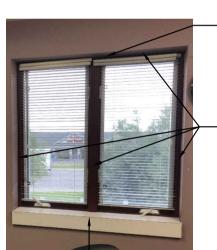
-GC IS TO DEMOLISH EXISTING PLAM SILL AND REPLACE WITH NEW 13 mm SOLID SURFACE SILL ON 13 mm EXTERIOR GRADE MARINE PLYWOOD, (M.G.A.T.) (TYP.)



GC IS RESPONSIBLE TO SAND, PRIME AND REPAINT ALL EXISTING EXPOSED LINTEL FROM EXTERIOR SIDE BEFORE INSTALLING NEW WINDOW (M.G.A.T.)(TYP.)

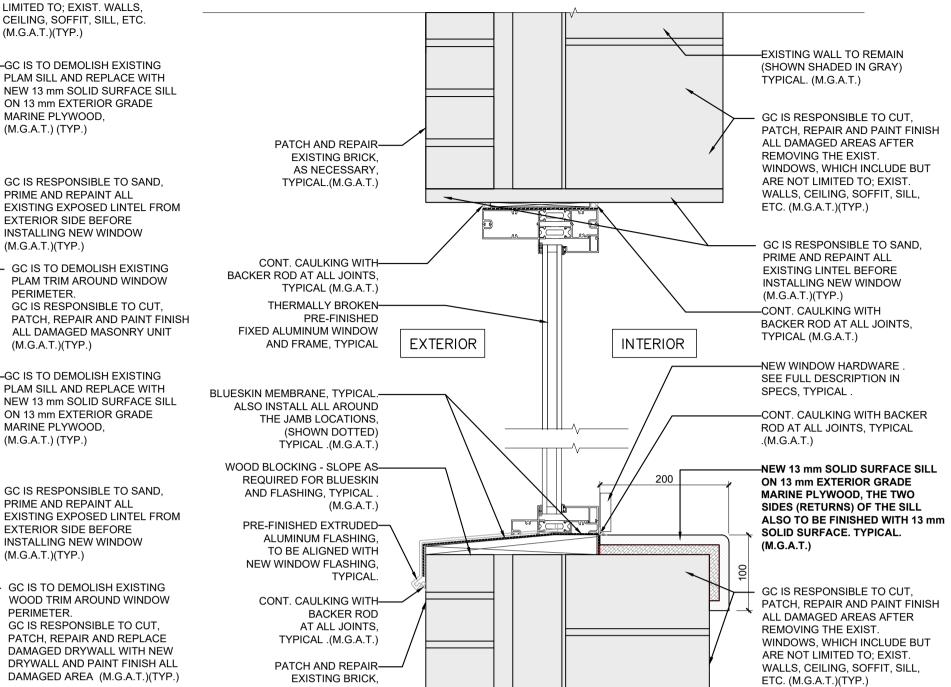
GC IS TO DEMOLISH EXISTING WOOD TRIM AROUND WINDOW PERIMETER GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND REPLACE DAMAGED DRYWALL WITH NEW DRYWALL AND PAINT FINISH ALL DAMAGED AREA (M.G.A.T.)(TYP.)

—GC IS TO DEMOLISH EXISTING PLAM SILL AND REPLACE WITH NEW 13 mm SOLID SURFACE SILL ON 13 mm EXTERIOR GRADE MARINE PLYWOOD, (M.G.A.T.) (TYP.)



- GC IS RESPONSIBLE TO SAND, PRIME AND REPAINT ALL EXISTING EXPOSED LINTEL FROM EXTERIOR SIDE BEFORE **INSTALLING NEW WINDOW** (M.G.A.T.)(TYP.)

GC IS RESPONSIBLE TO CUT. PATCH, REPAIR AND REPLACE DAMAGED DRYWALL AROUND PARAMETER WITH NEW DRYWALL VITH PAINT FINISH TO ACCOMMODATE NEW WINDOW WORK (M.G.A.T.)(TYP.)



DETAIL SECTION

EXISTING WALL TO REMAIN

(SHOWN SHADED IN GRAY)

TYPICAL.(M.G.A.T.)

—GC IS TO DEMOLISH EXISTING PLAM SILL AND REPLACE WITH NEW 13 mm SOLID SURFACE SILL ON 13 mm EXTERIOR GRADE MARINE PLYWOOD, (M.G.A.T.) (TYP.)

±500 R.O.

GENERAL NOTES

ALUMINUM: EXTRUDED ALLOY 6063-T5 & 6 FOR FRAMING MEMBERS, CLAMPING BARS, CAPS, ETC. FLASHINGS, FORMED LUGS, ETC. TO BE #3003-H14 UTILITY GRADE SHEET FOR PAINT

- EXTERIOR CLOSURE FLASHINGS - 1mm THK.

AS NECESSARY. TYPICAL.(M.G.A.T.)

- INTERIOR CLOSURE FLASHINGS - 1mm THK.

(WHERE EXPOSED TO BE FINISHED TO MATCH SKYLIGHT FRAMING MEMBERS & CAPS)

GLAZING GASKETS: TYPICALLY, EXTRUDED EPDM GASKET (BLACK) FOR INTERIOR & EXTERIOR SEALS - POLYSHIM TAPE REQUIRED AT ALL SLOPED CLAMPING BARS

SEALANT: MEDIUM MODULUS, NEUTRAL CURE SILICONE SEALANT FOR GENERAL USE & AT ALL CLAMPING BAR JOINTS (3mm GAPS TYPICALLY) - TREMSIL 600

AIRSEALS: PURLIN TO RAFTER NOTCH - TREMCO TRS-600

ALUMINUM FLASHINGS PERIMETER SEAL @ GUTTER- TREMCO TRS-600 152mm LAP JOINTS AT ALL INTERIOR & EXTERIOR FLASHINGS - TREMCO TRS-600 RAFTER CONNECTIONS INTO CURB-SILL NOTCH - TREMCO TRS-600 EPDM JOINTS @ CORNERS & NOTCHES - TO BE SEALED WITH TREMSIL 600

BACKER ROD: CLOSED CELL POLYETHYLENE ROPE BACK-UP WHERE JOINT BACK-UP IS REQUIRED - NOT BY IBG (TREMCO "SOF " ROD RECOMMENDED)

SETTING BLOCKS: 51mm LG. HARD NEOPRENE BLOCKS LOCATED AT 1/4 PTS. ON THE DOWNSLOPE SIDE OF GLASS UNITS

ALL DOUBLE-GLAZED INSULATING UNITS TO BE NOMINAL THICKNESS 25mm TO MEET REQUIREMENT OF CGSB CAN2-12.8-97. HEAT REFLECTING GLASS: VITRO ARCHITECTURAL GLASS SOLARBAN 70XL ON NO. 2 SURFACE WITH WARM EDGE SPACER AT PERIMETER OF GLASS UNITS, WITH SOLAR CONTROL LOW E GLASS, ARGON FILLED SPACE BETWEEN GLASS, AS MANUFACTURED BY VAG OR EQUIVALENT APPROVED BY CONSULTANT.

SPACER BLOCKS: EXTRUDED RIGID POLYSTYRENE INSULATION IN THICKNESS REQUIRED TO FILL GAPS BETWEEN EXTERIOR FLASHINGS & EXTRUSION'S GLASS SEAT - TO HAVE A COMPRESSIVE STRENGTH OF 2.8MPa (400 PSI)

SEPARATION OF DISSIMILAR MATERIALS: TO BE ACCOMPLISHED THRU THE USE OF NEOPRENE/PVC SHIMS OR BITUMINOUS PAINT APPLIED IN THE FIELD

HARDWARE: SELF TAPPING SCREWS, MACHINE BOLTS/NUTS AND SELF DRILLING FASTENERS TO BE STAINLESS STEEL OR DOUBLE CADMIUM PLATED FOR STRENGTH REASONS TO AVOID SHEARING IN SOME LOCATIONS (SPECIFICALLY TEKS AND PURLINS SCREWS)

FINISH: EXPOSED INTERIOR/EXTERIOR COMPONENTS TO BE .0004 CLEAR ANODIZED

MISSISSAUGA

NO. DESCRIPTION

ISSUED FOR 50% CLIENT REVIEW

ISSUED FOR BUILDING PERMIT

ISSUED FOR TENDER

8 ISSUED FOR TENDER

REVISIONS

ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023

13 OCT. 2023

10 NOV. 2023

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05 JUL. 2024

ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4

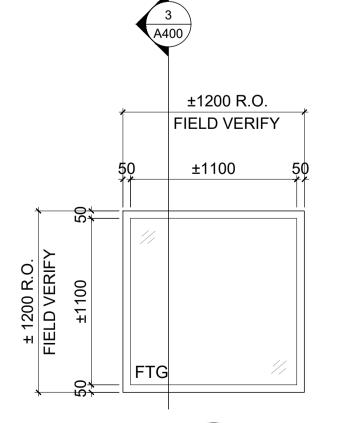


EXP SERVICES IN

EXP SERVICES INC EXP SERVICES INC

WINDOW SCHEDULE AND TYPES DETAIL SECTION

MM RN/AA 2320761 A400 AS NOTED

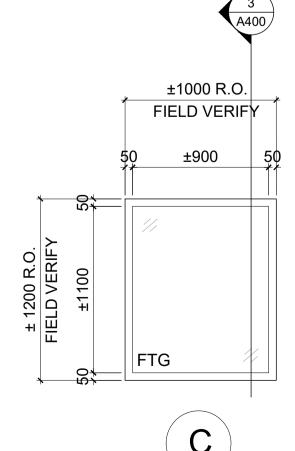


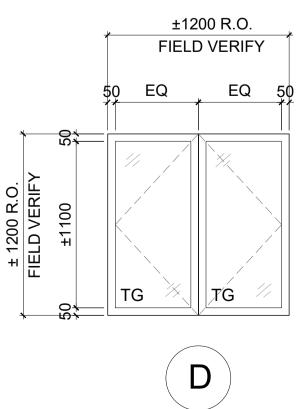
WINDOW SCHEDULE

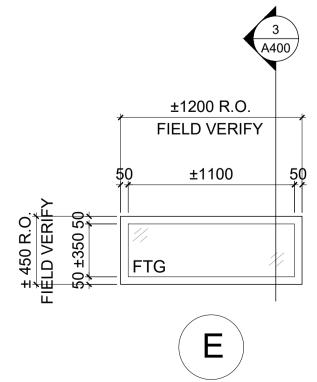
A400

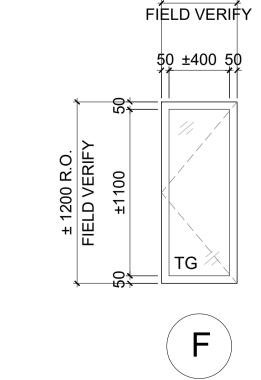
SCALE:

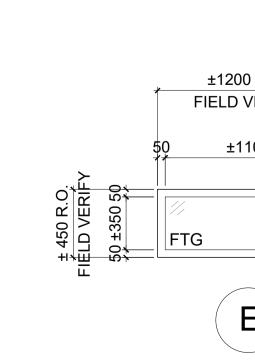
±500 R.O. FIELD VERIFY 50 ±400 50 ± 1200 R.O. FTG В



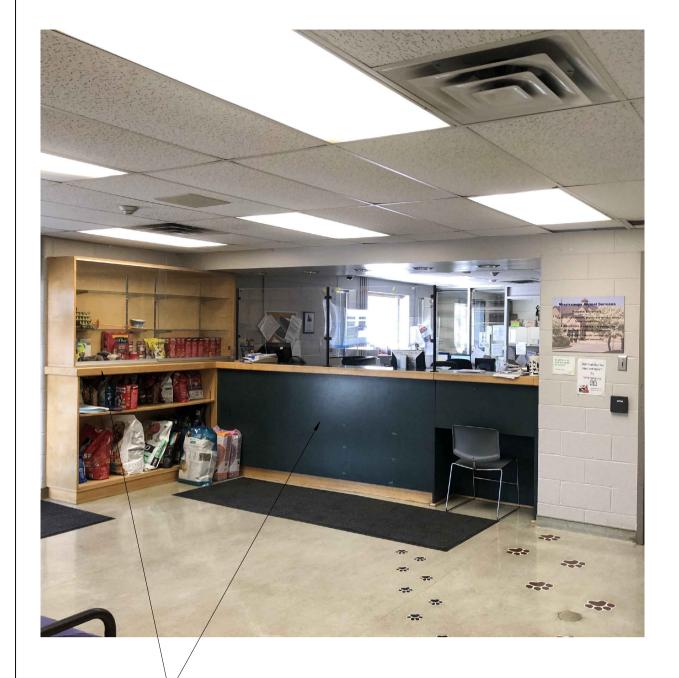




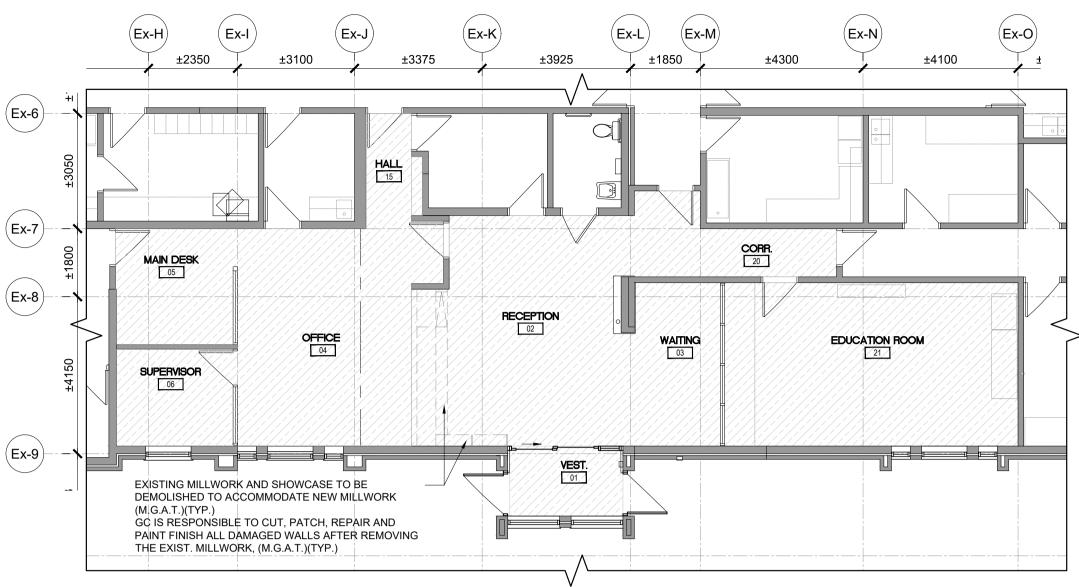




WINDOW TYPES \A400 SCALE:

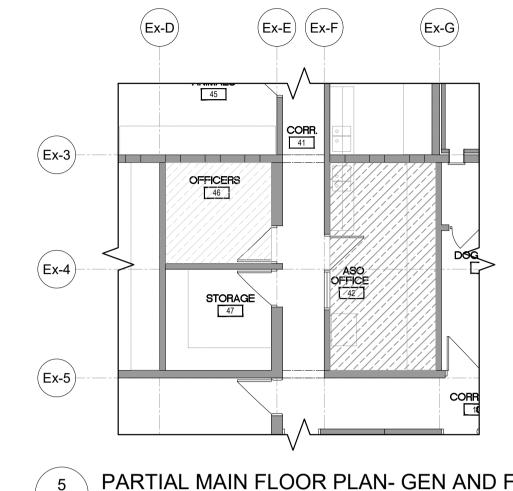


EXISTING MILLWORK AND SHOWCASE TO BE DEMOLISHED AND REPLACED WITH NEW MILWORK (TYP.) GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH ALL DAMAGED WALLS AFTER REMOVING THE EXIST. MILLWORK AND SHOWCASE, (M.G.A.T.)(TYP.)

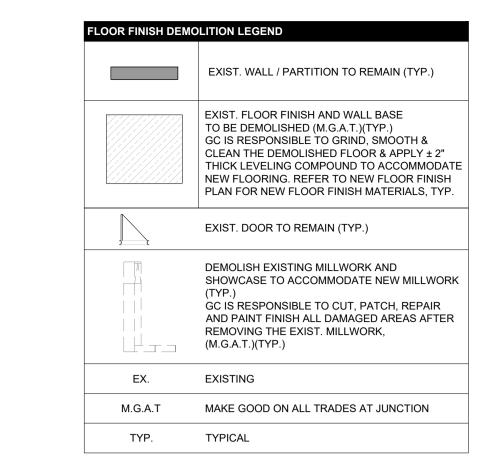


PARTIAL MAIN FLOOR PLAN- GENERAL AND FLOOR FINISH- DEMO

\A401/



5 PARTIAL MAIN FLOOR PLAN- GEN AND FF- DEMO 1:100



FLOOR FINISH DEMOLITION NOTES

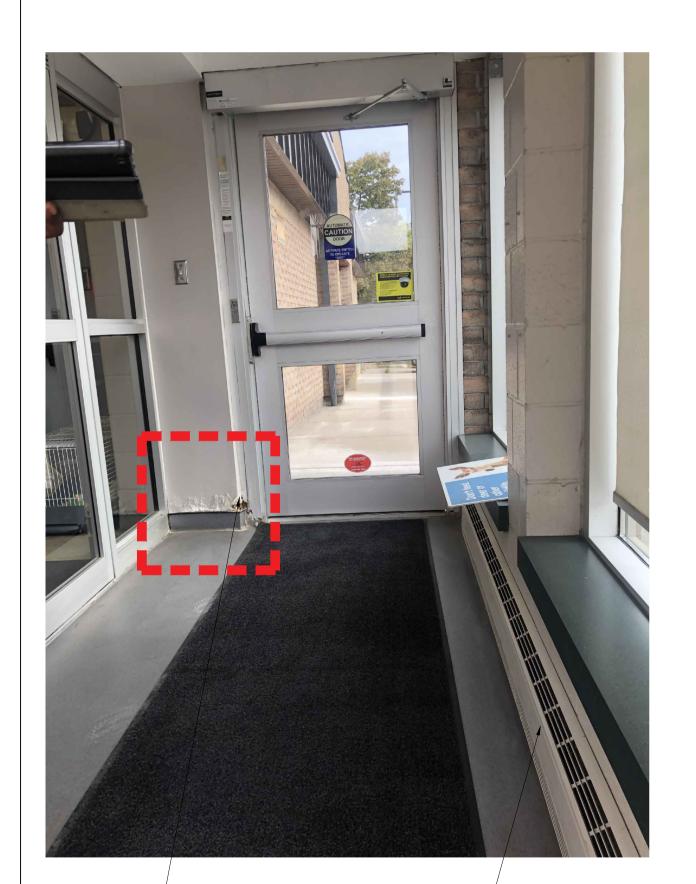
- 1. ALL DIMENSIONS TO BE SITE MEASURED AND VERIFIED.
- 2. THIS DRAWING TO BE READ IN CONJUNCTION W/ FLOOR FINISH NEW + ROOM FINISH SCHEDULE DRAWINGS. REPORT ANY DISAGREEMENTS OR CONFLICTS BETWEEN CONSULTANT'S DRAWINGS TO THE ARCHITECT.
- 3. ALL FLOOR AREAS WHERE EXIST. FLOOR FINISH HAS BEEN REMOVED TO ACCOMMODATE NEW FINISHES TO BE PROPERLY PREPARED WITH LEVELLING COMPOUND UP TO ±3" THICK, SMOOTH & CLEAN TO RECEIVE NEW FLOOPING.
- SMOOTH & CLEAN TO RECEIVE NEW FLOORING.

 4. REPAIR, PATCH, MAKE GOOD AT WALL AND FLOOR JUNCTIONS AND PAINT FINISH TO ALL RELATED EXIST. AREAS TO ACCOMMODATE NEW

MECHANICAL & ELECTRICAL MODIFICATIONS,

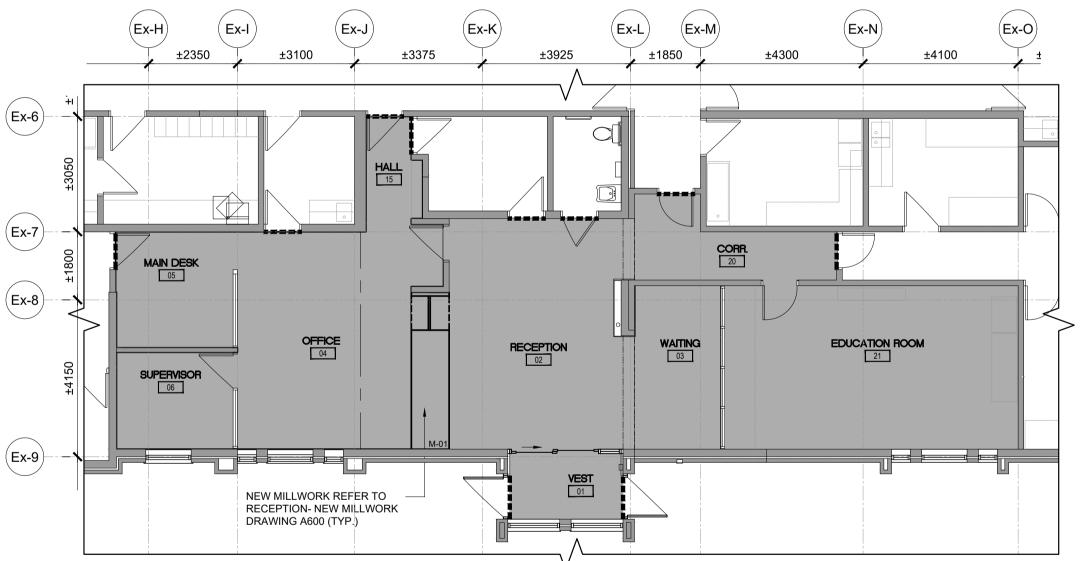
FIXTURES AND NEW CONNECTIONS.

- 5. CONTRACTOR IS RESPONSIBLE FOR X-RAY STUDY OF EXISTING CONCRETE FLOOR SLAB BEFORE CUTTING TO ENSURE STRUCTURAL INTEGRITY OF THE / FLOOR SLAB AND NO EXIST. UNDERGROUND SERVICES TO BE AFFECTED.
- 6. CONTRACTOR TO SUPPLY AND INSTALL TEMPORARY PLYWOOD SHEETING TO PROTECT NEW FLOORING BEING INSTALLED IN ALL AREAS WHERE PUBLIC ACCESS MUST BE MAINTAINED DURING CONSTRUCTION.

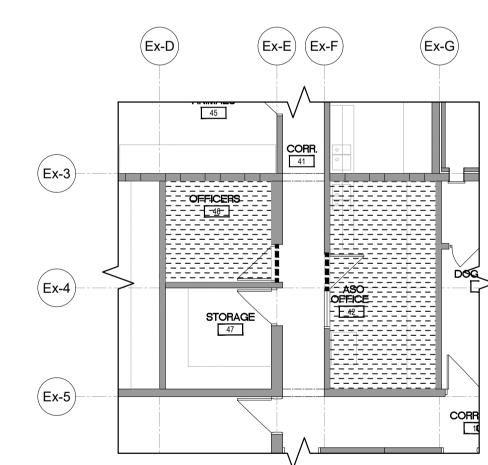


GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH THE DAMAGED DRYWALL AND BASE BEFORE INSTALLATION OF NEW FLOOR FINISH AND COVEBASE, (M.G.A.T.)(TYP.)

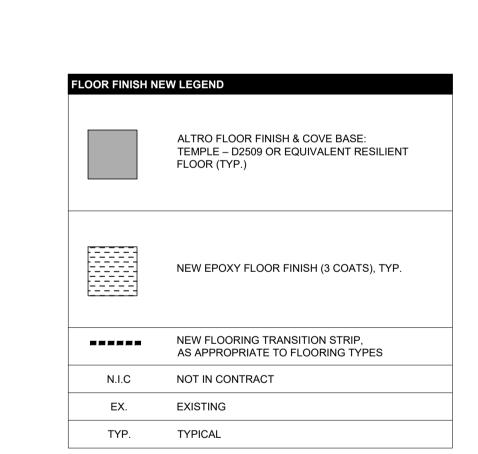
EXISTING HEATER TO BE REMOVE AND— REINSTALL TO ACCOMMODATE NEW FLOOR FINISH AND COVE BASE, (M.G.A.T.)(SEE MECH.)(TYP.)



PARTIAL MAIN FLOOR PLAN- GENERAL AND FLOOR FINISH- NEW
1:100



6 PARTIAL MAIN FLOOR PLAN- GEN AND FF- NEW 1:100





ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023

07 FEB. 2024 05 JUL. 2024

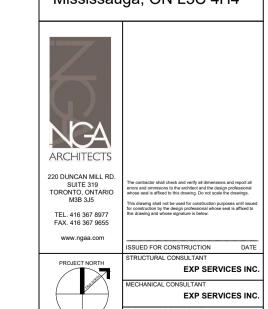
ISSUED FOR 50% CLIENT REVIEW

8 ISSUED FOR TENDER

REVISIONS

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



EXP SERVICES INC.

SHEET TITLE

PARTIAL MAIN FLOOR PLAN - GENERAL
AND FLOOR FINISH - DEMO AND NEW

AND FLOOR FINISH - DEMO AND NEW

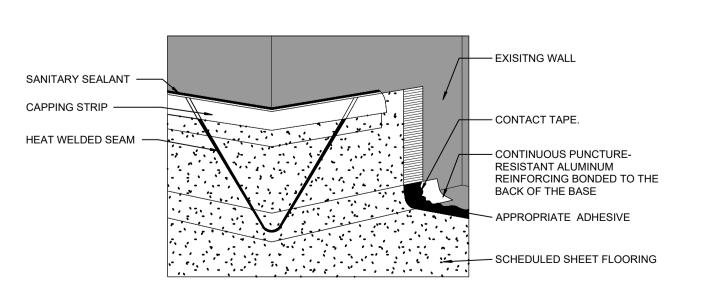
SHEET NO.

DRAWN BY MM RN/AA

PROJECT NO. 2320761

SCALE

AS NOTED



3 TYPICAL BUTTERFLY CORNER DETAIL N.T.S



— EXISTING WALL

- CONTINUOUS PUNCTURE-RESISTANT ALUMINUM

BACK OF THE BASE

ALTRO SHEET —

HEAT WELD

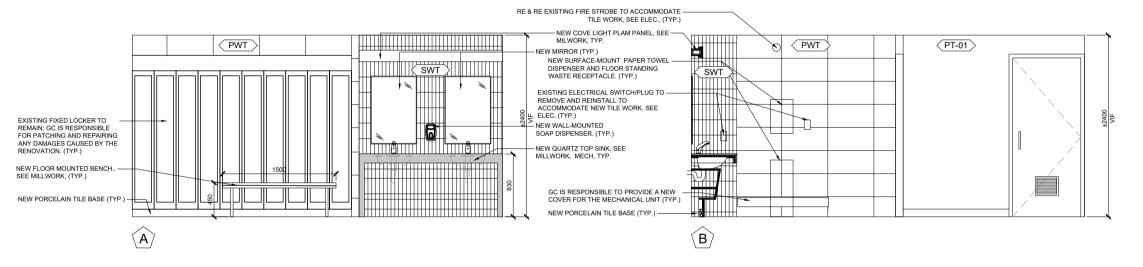
ALL SEAMS

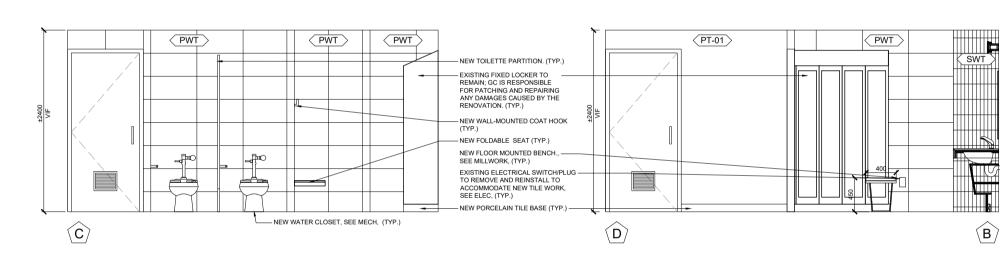
REINFORCING BONDED TO THE

PREFABRICATED COVE BASE

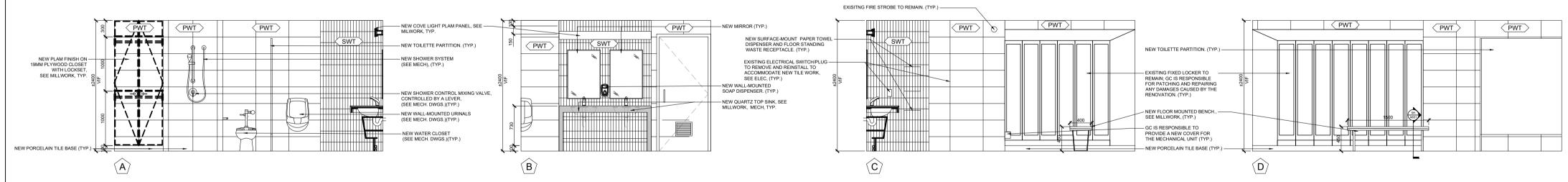
— CAP STRIP







FEMALE CHANGE ROOM - NEW INTERIOR ELEVATIONS A401a SCALE:



MALE CHANGE ROOM - NEW INTERIOR ELEVATIONS A401a SCALE:

	CLEAN THE DEMOLISHED FLOOR & APPLY ± 2" THICK LEVELING COMPOUND TO ACCOMMODATE NEW FLOORING. REFER TO NEW FLOOR FINISH PLAN FOR NEW FLOOR FINISH MATERIALS, TYP.
	EXISTING CEILING TO REMAIN, GC TO CUT, PATCH & REPAIR ANY DAMAGE CEILING TO ACCOMMODATE NEW WORK,SEE MECH, ELEC, TYP.
	GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND CUT EXISTING PARTITION WALL TO ±2'-0" A.F.F. FOR PART OF THE WALL TO ACCOMMODATE ALL PLUMBING REPLACEMENT WORK. (M.G.A.T.)
	GENERAL CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL NECESSARY SHORING AND SUPPORT TO THE DEMOLISHED CONCRETE BLOCK WALL.
	GC TO INFILL OPENING WITH NEW CONCRETE BLOCK UNITS. (TYP.)
	EXIST. DOOR TO REMAIN (TYP.)
	DEMOLISH EXISTING MILLWORK AND SHOWCASE TO ACCOMMODATE NEW MILLWORK (TYP.) GC IS RESPONSIBLE TO CUT, PATCH, REPAIR AND PAINT FINISH ALL DAMAGED AREAS AFTER REMOVING THE EXIST. MILLWORK, (M.G.A.T.)(TYP.)
EX.	EXISTING
M.G.A.T	MAKE GOOD ON ALL TRADES AT JUNCTION

EXIST. WALL / PARTITION TO REMAIN (TYP.)

NEW FLOORING. REFER TO NEW FLOOR FINISH PLAN FOR NEW FLOOR FINISH MATERIALS, TYP.

MILLWORK, BENCHES, HOOKS, ACCESSORIES, WOOD TRIMS, TOILET PARTITION AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS. (SEE MECH.) (SEE

CUT, PATCH & REPAIR THE WALL AND CEILING, MAKE IT READY TO RECEIVE NEW FLOOR / WALL

FINISHES AND PAINT FINISH. (M.G.A.T.)(TYP.)

EXIST. FLOOR FINISH AND WALL BASE TO BE DEMOLISHED (M.G.A.T.)(TYP.) GC IS RESPONSIBLE TO GRIND, SMOOTH &

EXTENT OF THE AREA TO BE DEMOLISHED,

SANITARY / PLUMBING AS NECESSARY),

INCLUDING BUT NOT LIMITED TO; FIXTURES (CUT AND CAP ALL RELATED

ELEC.)(M.G.A.T.)(TYP.)

EXIST. FLOOR FINISH AND WALL BASE TO BE DEMOLISHED (M.G.A.T.)(TYP.) GC IS RESPONSIBLE TO GRIND, SMOOTH & CLEAN THE DEMOLISHED FLOOR & APPLY ± 2" THICK LEVELING COMPOUND TO ACCOMMODATE

FLOOR FINISH DEMOLITION NOTES

TYPICAL

- 1. ALL DIMENSIONS TO BE SITE MEASURED AND VERIFIED. 2. THIS DRAWING TO BE READ IN CONJUNCTION W/ FLOOR FINISH NEW + ROOM FINISH SCHEDULE DRAWINGS. REPORT ANY DISAGREEMENTS OR CONFLICTS BETWEEN CONSULTANT'S DRAWINGS TO THE ARCHITECT.
- 3. ALL FLOOR AREAS WHERE EXIST. FLOOR FINISH HAS BEEN REMOVED TO ACCOMMODATE NEW FINISHES TO BE PROPERLY PREPARED WITH LEVELLING COMPOUND UP TO ±3" THICK, SMOOTH & CLEAN TO RECEIVE NEW FLOORING.
- 4. REPAIR, PATCH, MAKE GOOD AT WALL AND FLOOR JUNCTIONS AND PAINT FINISH TO ALL RELATED EXIST. AREAS TO ACCOMMODATE NEW MECHANICAL & ELECTRICAL MODIFICATIONS, FIXTURES AND NEW CONNECTIONS.
- 5. CONTRACTOR IS RESPONSIBLE FOR X-RAY STUDY OF EXISTING CONCRETE FLOOR SLAB BEFORE CUTTING TO ENSURE STRUCTURAL INTEGRITY OF THE / FLOOR SLAB AND NO EXIST. UNDERGROUND SERVICES TO BE AFFECTED.
- 6. CONTRACTOR TO SUPPLY AND INSTALL TEMPORARY PLYWOOD SHEETING TO PROTECT NEW FLOORING BEING INSTALLED IN ALL AREAS WHERE PUBLIC ACCESS MUST BE MAINTAINED DURING CONSTRUCTION.

ALL FINISHES PLAN LEGEND				
SWT	SUBWAY WALL TILE, 50 mm X 200 mm, TYP.			
PWT	PORCELAIN WALL TILE, 305 mm X 610 mm, TYP.			
(PT-01)	PAINT FINISH - TYPE 1			
LOOR FINISH NEV	W LEGEND			
	NEW NON-SLIP PORCELAIN FLOORING TILE 610 mm X 610 mm FLOOR FINISH WITH PORCELAIN TILE BASE, TYP.			
	NEW MOSAIC FLOOR TILE FOR SHOWER AREA 305 mm X 305 mm FLOOR FINISH, TYP.			
	NEW WOOD-LOOK LUXURY VINYL TILE FLOORING 153 mm X 1219 mm WITH RUBBER WALL BASE, TYP.			
	NEW FLOORING TRANSITION STRIP, AS APPROPRIATE TO FLOORING TYPES			
N.I.C	NOT IN CONTRACT			
EX.	EXISTING			
	+			

TYPICAL

TYP.

VISIONS	
ECT	

ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023

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ISSUED FOR 50% CLIENT REVIEW

ISSUED FOR BUILDING PERMIT

ISSUED FOR TENDER

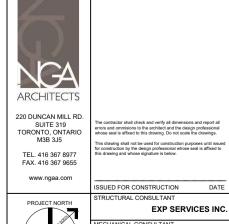
8 ISSUED FOR TENDER



RENOVATION PHASE-02 PROJECT

ANIMAL SERVICES CENTRE

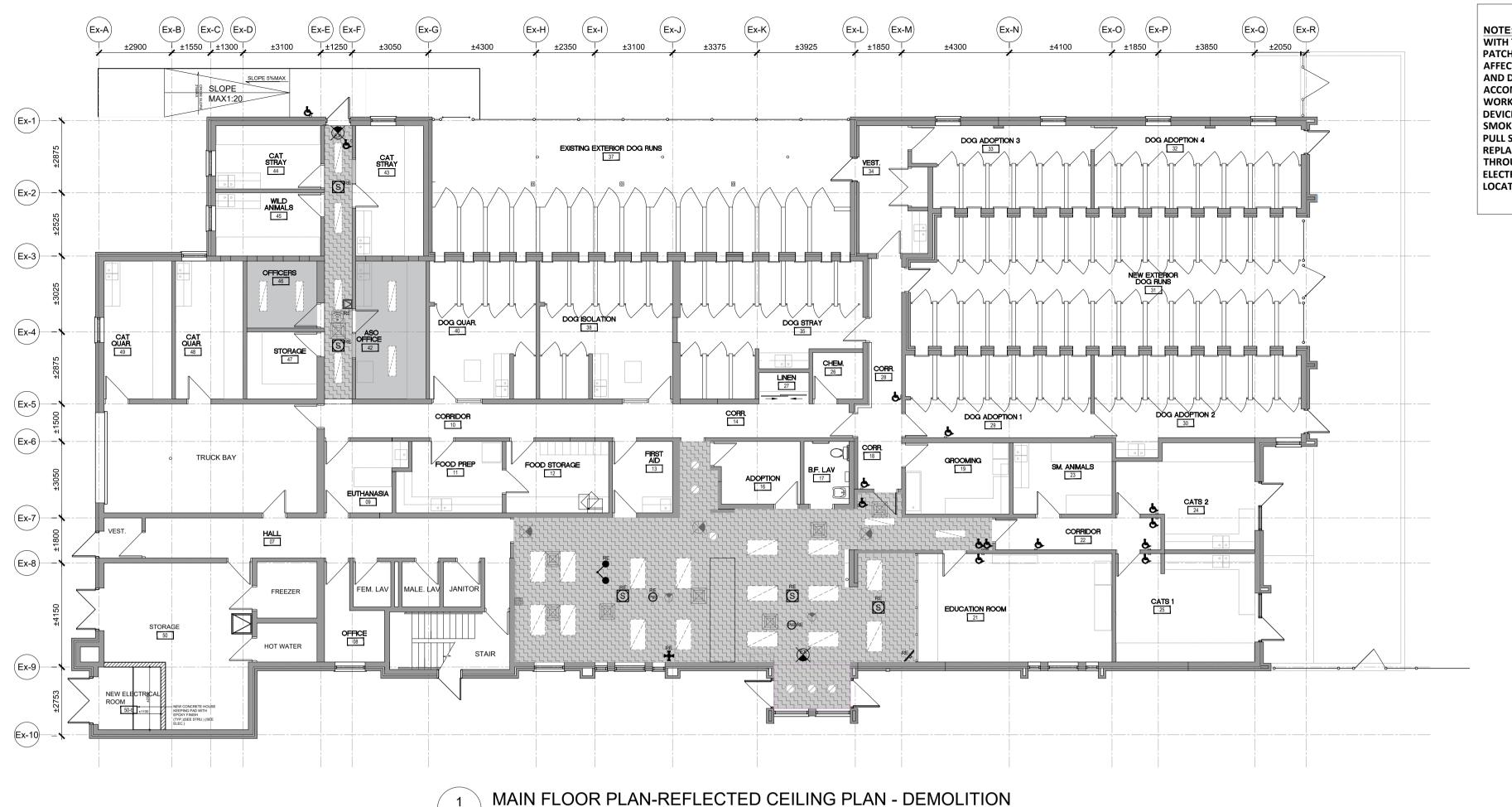
735 Central Parkway W, Mississauga, ON L5C 4H4



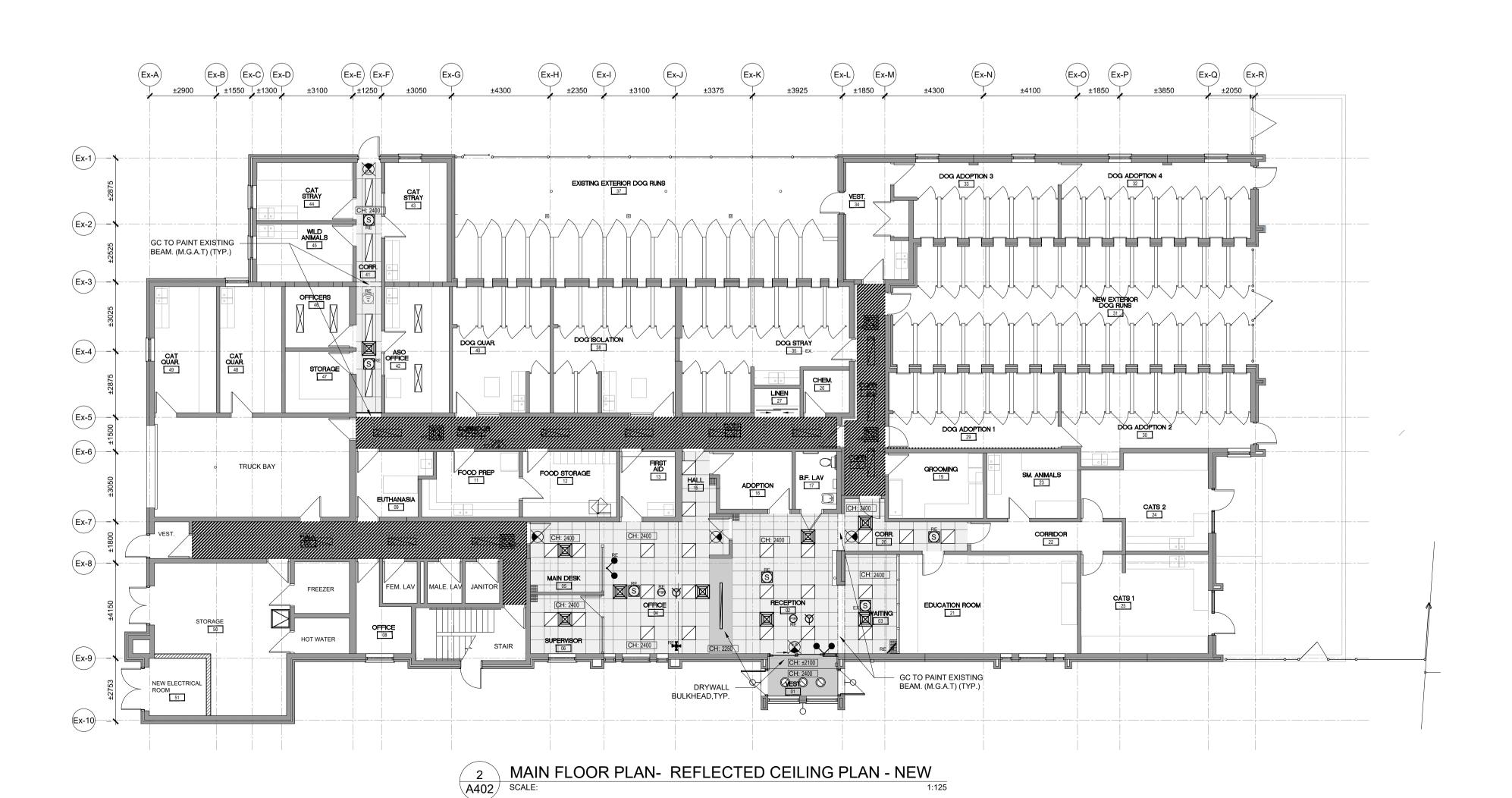
EXP SERVICES INC. PARTIAL SECOND FLOOR PLAN -

EXP SERVICES INC

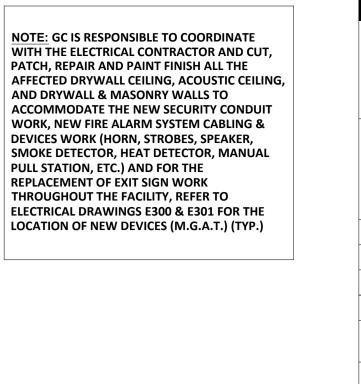
GENERAL AND FLOOR FINISH - DEMO AND NEW MM RN/AA



A402 SCALE:



PATCH, REPAIR AND PAINT FINISH ALL THE AND DRYWALL & MASONRY WALLS TO DEVICES WORK (HORN, STROBES, SPEAKER, PULL STATION, ETC.) AND FOR THE REPLACEMENT OF EXIT SIGN WORK THROUGHOUT THE FACILITY, REFER TO



REFLE	CTED CEILING PLAN D	EMOLITION LEGEND
		DEMOLISH EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP.
		EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS TO REMAIN ONLY THE LIGHTING FIXTURES TO BE DEMOLISH AND REPLACED WITH NEW. UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP.
	EX.	EXISTING
	M.G.A.T	MAKE GOOD ON ALL TRADES AT JUNCTION
	TYP.	TYPICAL
		EXISTING WALL OR PARTITION TO REMAIN, TYP.
		EXIST. DOOR TO REMAIN (TYP.)
		NEW DOOR , SEE DOOR SCHEDULE, TYP.
		REMOVE EXIST. SUPPLY, RETURN GRILLE AND REPLACE WITH NEW, SEE MECH, TYP.
	\heartsuit	REMOVE EXIST. CARBON MONOXIDE / SMOKE ALARM AND REPLACE WITH NEW, SEE ELEC, TYP.
(REMOVE EXIST. LIGHT FIXTURE, SEE ELEC,TYP.
RE S	RE S RE	REMOVE AND REINSTALL EXISTING. ELEC AND SECU DEVICES, SEE ELEC., TYP.

1. REPAIR, PATCH, MAKE GOOD AT CEILING, WALL AND FLOOR JUNCTIONS AND PAINT TO ALL RELATED EXISTING AREA AS TO ACCOMMODATE NEW MECHANICAL & ELECTRICAL MODIFICATIONS, FIXTURES AND NEW CONNECTIONS.

CEILING DEMOLITION NOTES

1. THIS DRAWING IS TO BE COORDINATED WITH MECHANICAL & ELECTRICAL DRAWINGS. ANY DISCREPANCIES IN THE DRAWINGS TO BE REPORTED TO ARCHITECT/ENGINEER.

2. REFER TO REFLECTED CEILING PLAN TO MAKE NECESSARY CHANGES OR DEMOLITION TO MATCH NEW LAYOUT AND FRAMES.

3. REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO DEVICES, LIGHT FIXTURES, RECEPTACLES, CONDUITS, SWITCHES, ETC.

4. REFER TO MECHANICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO MECHANICAL EQUIPMENTS, CONTROLS, DUCTS, PIPING, PLUMBING FIXTURES, ETC.

5. WHERE EXISTING SUSPENDED ACOUSTIC CEILING TILES ARE DISTURBED TO PERFORM NECESSARY ALTERATIONS, THEY MUST BE RETURNED TO A CONDITION EQUIVALENT TO

BEFORE THEY WERE DISTURBED. ACOUSTIC CEILING TILES DAMAGED DURING THE ALTERATIONS MUST BE REPLACED. 6. WHERE EXISTING DUCTWORK IS ALTERED, ALL NECESSARY CUTTING & PATCHING OF

EXISTING BULKHEADS, WALLS & CEILINGS REQUIRED SHALL BE PERFORMED UNDER THIS CONTRACT, SO AS TO LEAVE THE ENTIRE WORK IN A FINISHED AND WORKMAN LIKE CONDITION.

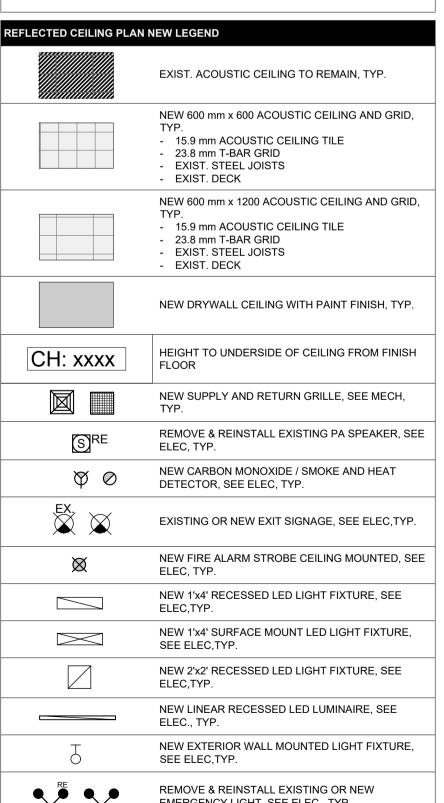
7. REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS TO ALL RELATED EXISTING AREAS WHERE

NEW STRUCTURAL FRAMES CONNECT 8. REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS ALL RELATED EXISTING AREAS TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL MODIFICATIONS AND NEW

9. CUT AND MAKE GOOD EXIST. CEILING WHERE TO RECEIVE NEW PARTITION. MODIFY AND PROVIDE ALL REQUIRED CEILING COMPONENTS TO INCLUDE BUT NOT LIMITED TO: HANGERS.

EXPOSED MAIN TEE, EXPOSED CROSS TEE, WALL MOULDING LAY-IN PANELS AND HOLD DOWN CLIPS WHERE REQUIRED. 10. GENERAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED TEES,

FRAMING SUPPORT, BRACING, MAIN TEES, CARRYING CHANNELS, ACCESSORIES AND ALL RELATED COMPONENTS, TYP.



EMERGENCY LIGHT, SEE ELEC., TYP.

CEILING BULKHEAD TO ACCOMMODATE

RELOCATION M.G.A.T, TYP.

DETECTORS, SEE ELEC., TYP.

CEILING WORK, SEE ELEC., TYP.

RE/

REMOVE AND REINSTALL EXIST. WIFI, SEE ELEC,

TYP. MAKE GOOD AT NEW CEILING TILES, T-BAR,

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REMOVE AND REINSTALL EXIST. CEILING

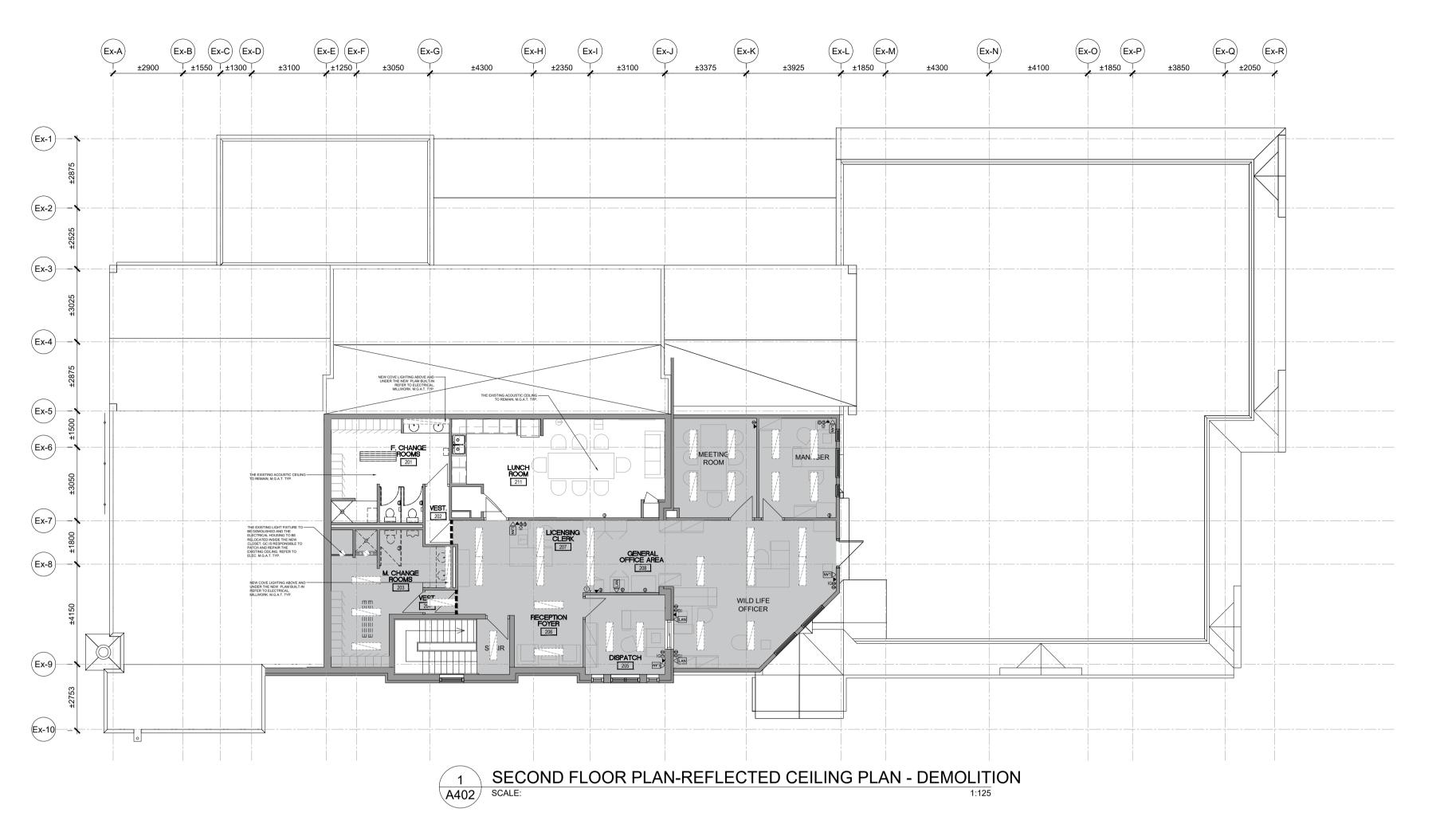
MOUNTED SCREEN TO ACCOMMODATE NEW

MOUNTED SECURITY CAMERA, SECURITY MOTION

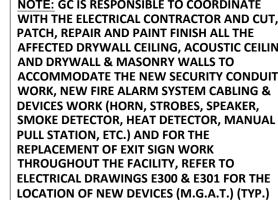
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ISSUES

NO. DESC		
	RIPTION	DATE
1 ISSUED	FOR PRELIMINARY DESIGN	CLIENT REVIEW 21 JUL. 2023
2 ISSUED	FOR DESIGN DEVELOPMENT	CLIENT REVIEW 25 AUG. 2023
3 ISSUED	FOR 50% CLIENT REVIEW	13 OCT. 2023
	FOR BUILDING PERMIT	01 NOV. 2023
	FOR 90% CLIENT REVIEW	10 NOV. 2023
6 ISSUED	FOR TENDER CLIENT REVIEW	v 08 DEC. 2023
7 ISSUED	FOR TENDER	07 FEB. 2024
8 ISSUED	FOR TENDER	05 JUL. 2024
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NOTE: GC IS RESPONSIBLE TO COORDINATE AFFECTED DRYWALL CEILING, ACOUSTIC CEILING, ACCOMMODATE THE NEW SECURITY CONDUIT



DEMOLISH EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP. EXISTING T-BAR/DRYWALL CEILING AND ALL RELATED MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS TO REMAIN ONLY THE LIGHTING FIXTURES TO BE DEMOLISH AND REPLACED WITH NEW. UNLESS OTHERWISE NOTED. SEE MECHANICAL AND ELECTRICAL, M.G.A.T., TYP. **EXISTING** EX. MAKE GOOD ON ALL TRADES AT JUNCTION M.G.A.T TYP. TYPICAL EXISTING WALL OR PARTITION TO REMAIN, TYP. EXIST. DOOR TO REMAIN (TYP.) NEW DOOR, SEE DOOR SCHEDULE, TYP. REMOVE EXIST. SUPPLY, RETURN GRILLE AND REPLACE WITH NEW, SEE MECH, TYP. REMOVE EXIST. CARBON MONOXIDE / SMOKE ALARM AND REPLACE WITH NEW, SEE ELEC, TYP. REMOVE EXIST. LIGHT FIXTURE, SEE ELEC, TYP. REMOVE AND REINSTALL EXISTING. ELEC AND SECU DEVICES, SEE ELEC., TYP.

REFLECTED CEILING PLAN DEMOLITION LEGEND



1. REPAIR, PATCH, MAKE GOOD AT CEILING, WALL AND FLOOR JUNCTIONS AND PAINT TO ALL RELATED EXISTING AREA AS TO ACCOMMODATE NEW MECHANICAL & ELECTRICAL MODIFICATIONS, FIXTURES AND NEW CONNECTIONS.

CEILING DEMOLITION NOTES

1. THIS DRAWING IS TO BE COORDINATED WITH MECHANICAL & ELECTRICAL DRAWINGS. ANY DISCREPANCIES IN THE DRAWINGS TO BE REPORTED TO ARCHITECT/ENGINEER.

2. REFER TO REFLECTED CEILING PLAN TO MAKE NECESSARY CHANGES OR DEMOLITION TO MATCH NEW LAYOUT AND FRAMES.

3. REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO DEVICES, LIGHT FIXTURES, RECEPTACLES, CONDUITS, SWITCHES, ETC.

4. REFER TO MECHANICAL DRAWINGS FOR DEMOLITION OF EXISTING BUT NOT LIMITED TO MECHANICAL EQUIPMENTS, CONTROLS, DUCTS, PIPING, PLUMBING FIXTURES, ETC.

5. WHERE EXISTING SUSPENDED ACOUSTIC CEILING TILES ARE DISTURBED TO PERFORM NECESSARY ALTERATIONS, THEY MUST BE RETURNED TO A CONDITION EQUIVALENT TO BEFORE THEY WERE DISTURBED. ACOUSTIC CEILING TILES DAMAGED DURING THE ALTERATIONS MUST BE REPLACED.

6. WHERE EXISTING DUCTWORK IS ALTERED, ALL NECESSARY CUTTING & PATCHING OF EXISTING BULKHEADS, WALLS & CEILINGS REQUIRED SHALL BE PERFORMED UNDER THIS CONTRACT, SO AS TO LEAVE THE ENTIRE WORK IN A FINISHED AND WORKMAN LIKE

7. REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS TO ALL RELATED EXISTING AREAS WHERE NEW STRUCTURAL FRAMES CONNECT

8. REPAIR, PATCH, AND MAKE GOOD AT JUNCTIONS ALL RELATED EXISTING AREAS TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL MODIFICATIONS AND NEW CONNECTIONS.

9. CUT AND MAKE GOOD EXIST. CEILING WHERE TO RECEIVE NEW PARTITION. MODIFY AND PROVIDE ALL REQUIRED CEILING COMPONENTS TO INCLUDE BUT NOT LIMITED TO; HANGERS, EXPOSED MAIN TEE, EXPOSED CROSS TEE, WALL MOULDING LAY-IN PANELS AND HOLD DOWN CLIPS WHERE REQUIRED.

10. GENERAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED TEES, FRAMING SUPPORT, BRACING, MAIN TEES, CARRYING CHANNELS, ACCESSORIES AND ALI RELATED COMPONENTS, TYP.

REFLECTED CEILING PLAN N	IEW LEGEND
CH: xxxx	HEIGHT TO UNDERSIDE OF CEILING FROM FINISH FLOOR
	NEW 1'x4' SURFACE MOUNT LED LIGHT FIXTURE, SEE ELEC,TYP.
8	NEW SURFACE MOUNT LED POT LIGHT FIXTURE, SEE ELEC,TYP.

1	ISSUED FOR PRELIMINARY DESIGN CLIENT REVIEW	21 JUL. 2023
2	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 2023
3	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 2023
4	ISSUED FOR BUILDING PERMIT	01 NOV. 2023
5	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 2023
6	ISSUED FOR TENDER CLIENT REVIEW	08 DEC. 2023
7	ISSUED FOR TENDER	07 FEB. 2024
8	ISSUED FOR TENDER	05 JUL. 2024
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CENTRE

ANIMAL SERVICES

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4

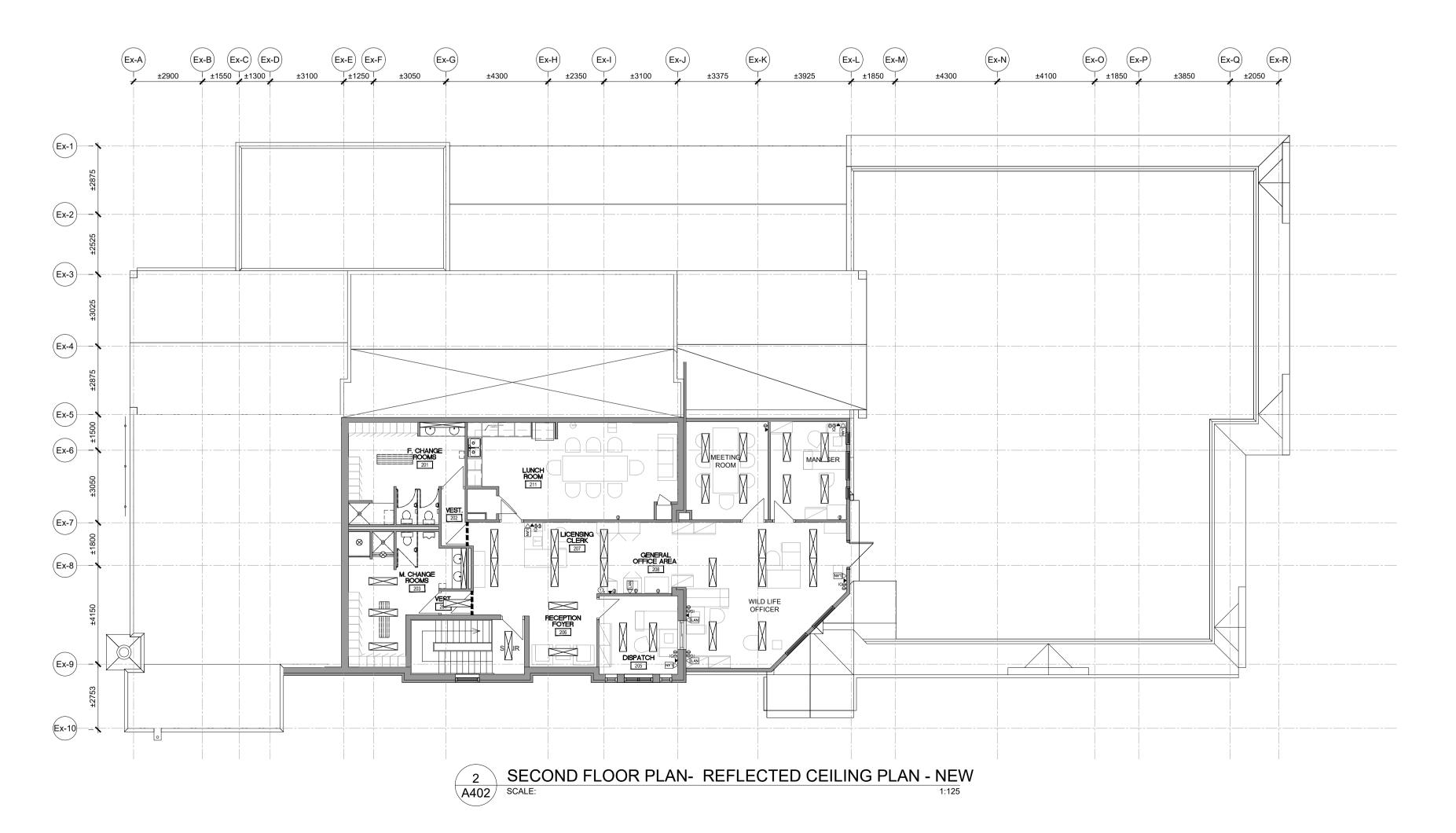


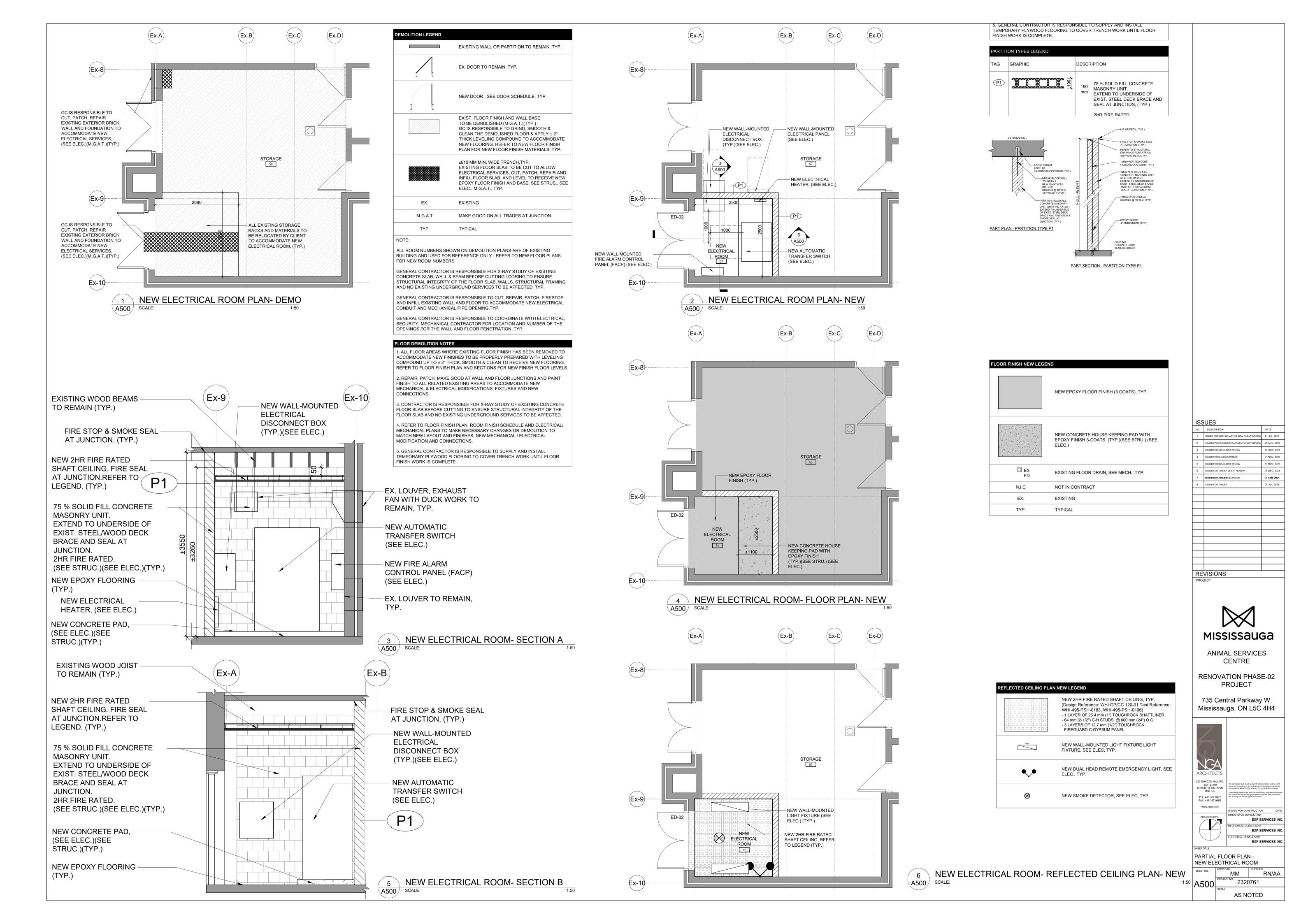
EXP SERVICES INC. SECOND FLOOR - REFLECTED CEILING

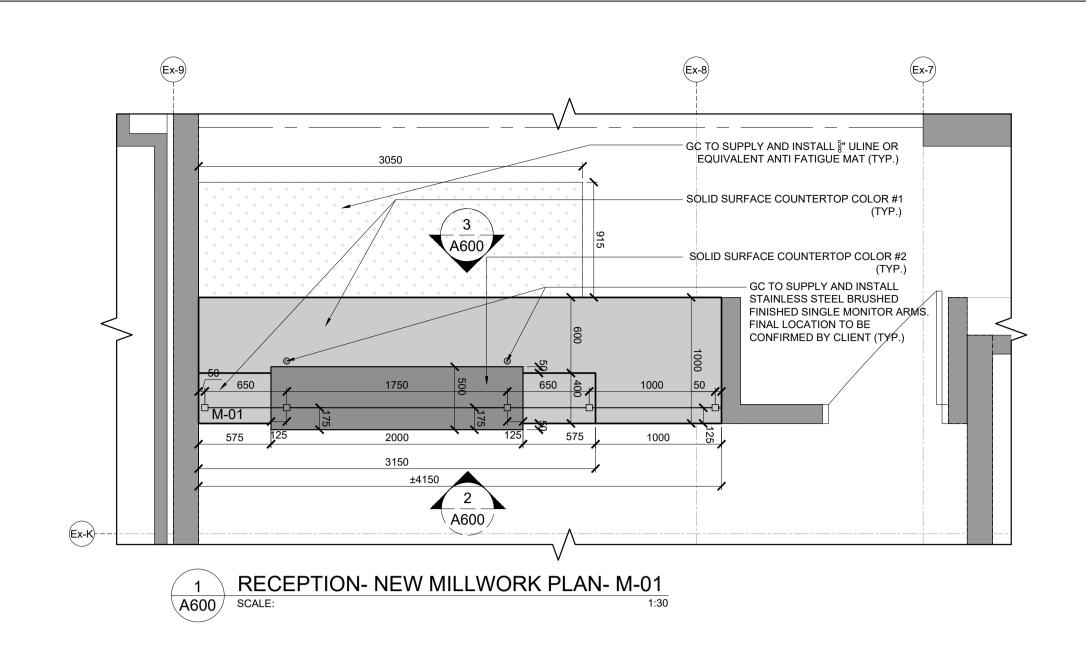
EXP SERVICES INC

MM RN/AA 2320761 AS NOTED

PLAN - DEMO AND NEW

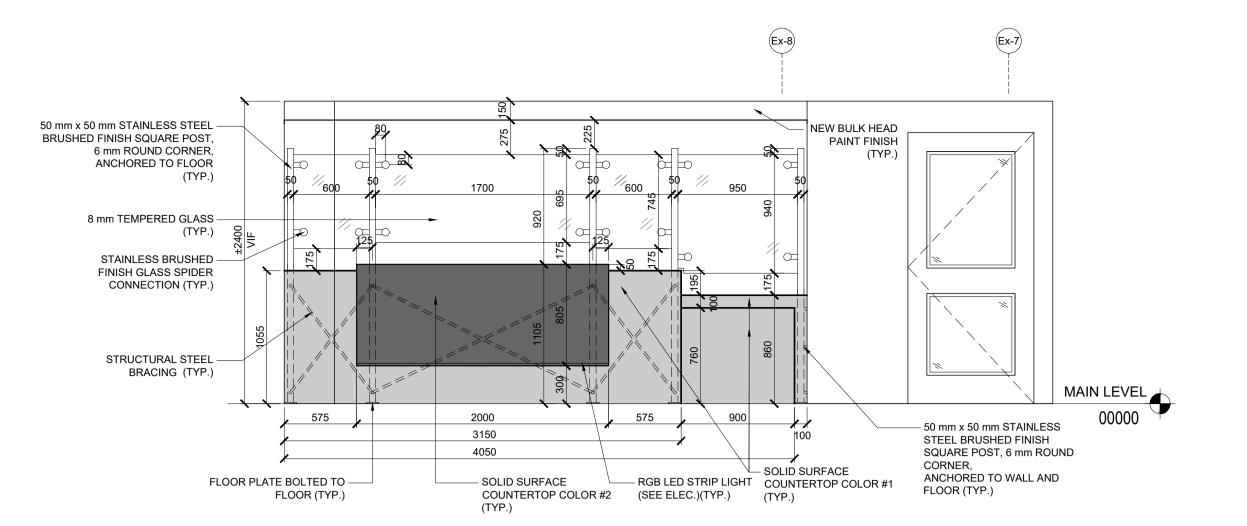




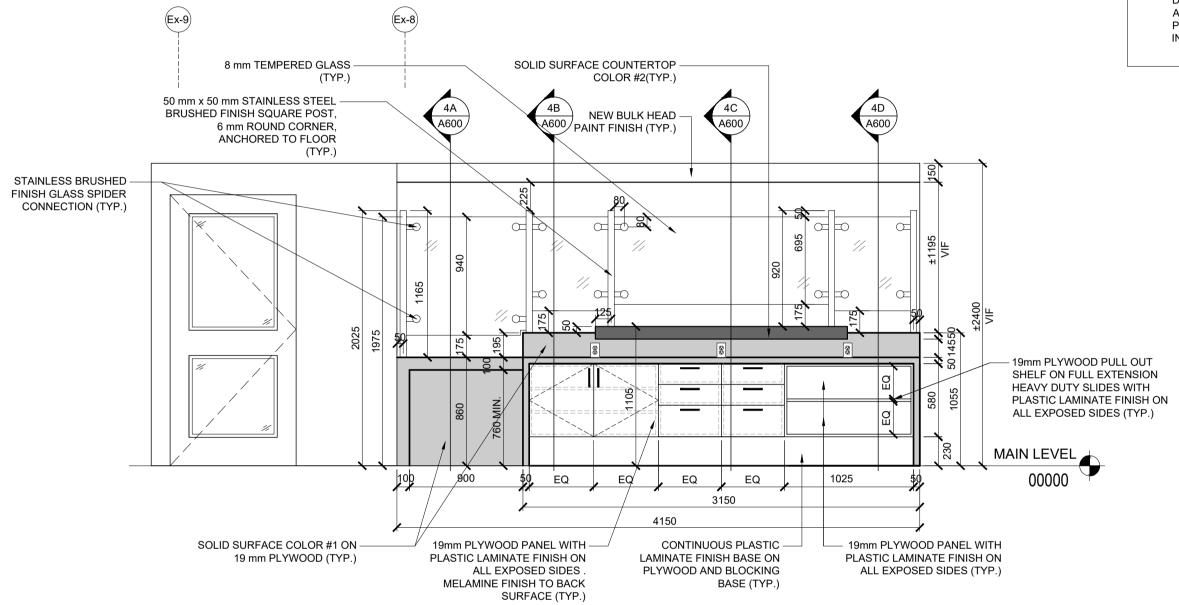




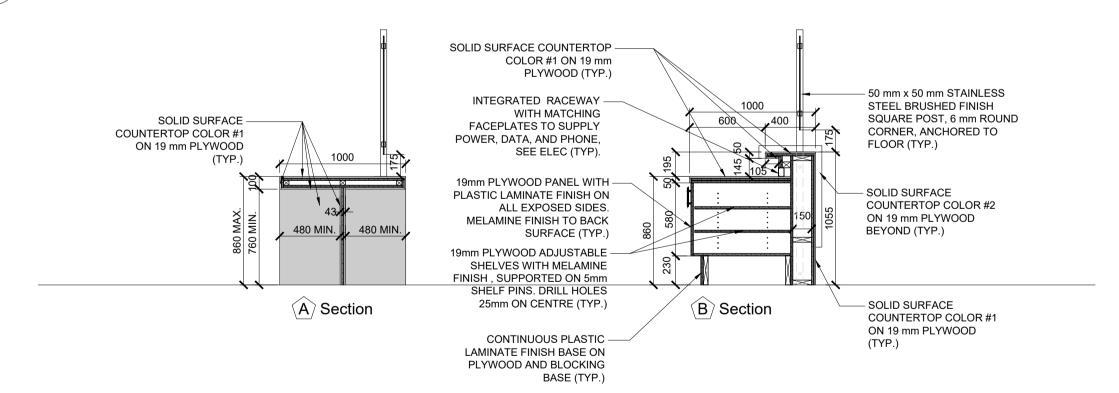


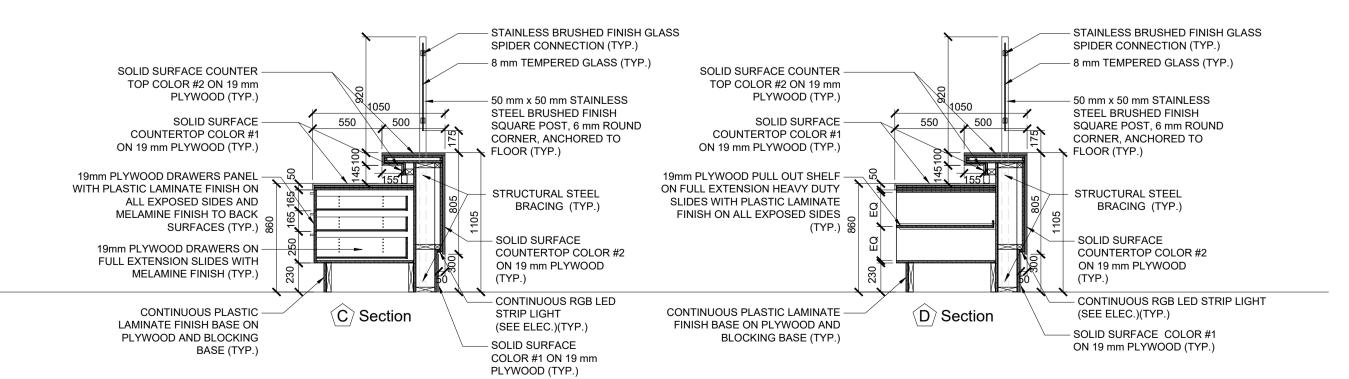


RECEPTION- NEW MILLWORK ELEVATION- M-01



RECEPTION- NEW MILLWORK ELEVATION- M-01 3 REC A600 SCALE:

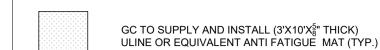




RECEPTION- NEW MILLWORK SECTIONS- M-01 A600 SCALE:

SOLID SURFACE COUNTERTOP COLOR #1: CORIAN-SILVER GREY (TYP.)

SOLID SURFACE COUNTERTOP COLOR #2: CORIAN-LAVA ROCK (TYP.)



GC IS RESPONSIBLE TO COORDINATE WITH MILLWORK CONTRACTOR AND SUPPLY & INSTALL TWO (2) STAINLESS STEEL BRUSHED FINISHED SINGLE MONITOR ARMS. FINAL LOCATION TO BE CONFIRMED WITH CLIENT (TYP.)

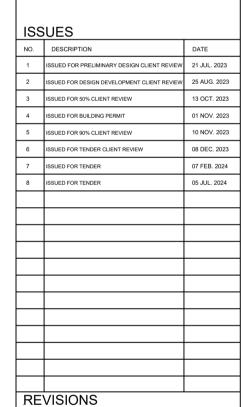
GC IS RESPONSIBLE TO COORDINATE WITH MILLWORK CONTRACTOR AND SUPPLY & INSTALL THE RECEPTION GLAZING SYSTEM (INCLUDING POST, GLASS, SPIDER CONNECTION, ETC.) WITH PROPER POST ANCHORING / BRACING AS REQUIRED TO SUPPORT THE GLAZING SYSTEM

LED STRIP LIGHT (SEE ELEC.)(TYP.)

MILLWORK NEW NOTES

MILLWORK NEW LEGEND

- 1. MILLOWRK PLAM FINISH: WILSONART-DAINTREE 8235K-05
- 2. MONITOR ARMS MUST HAVE AN ADJUSTABLE SWIVEL ROTATION LIMITER CAPABLE OF ADJUSTING TO DESIRED ANGELS SETTINGS TO INCLUDE 120° AND 180° WITH A STOP TO PREVENT INTERFERENCE WITH BACK PANEL AND OBSTACLES BEHIND THE ARM. MUST NOT INTERFERE. (TYP.)





ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4

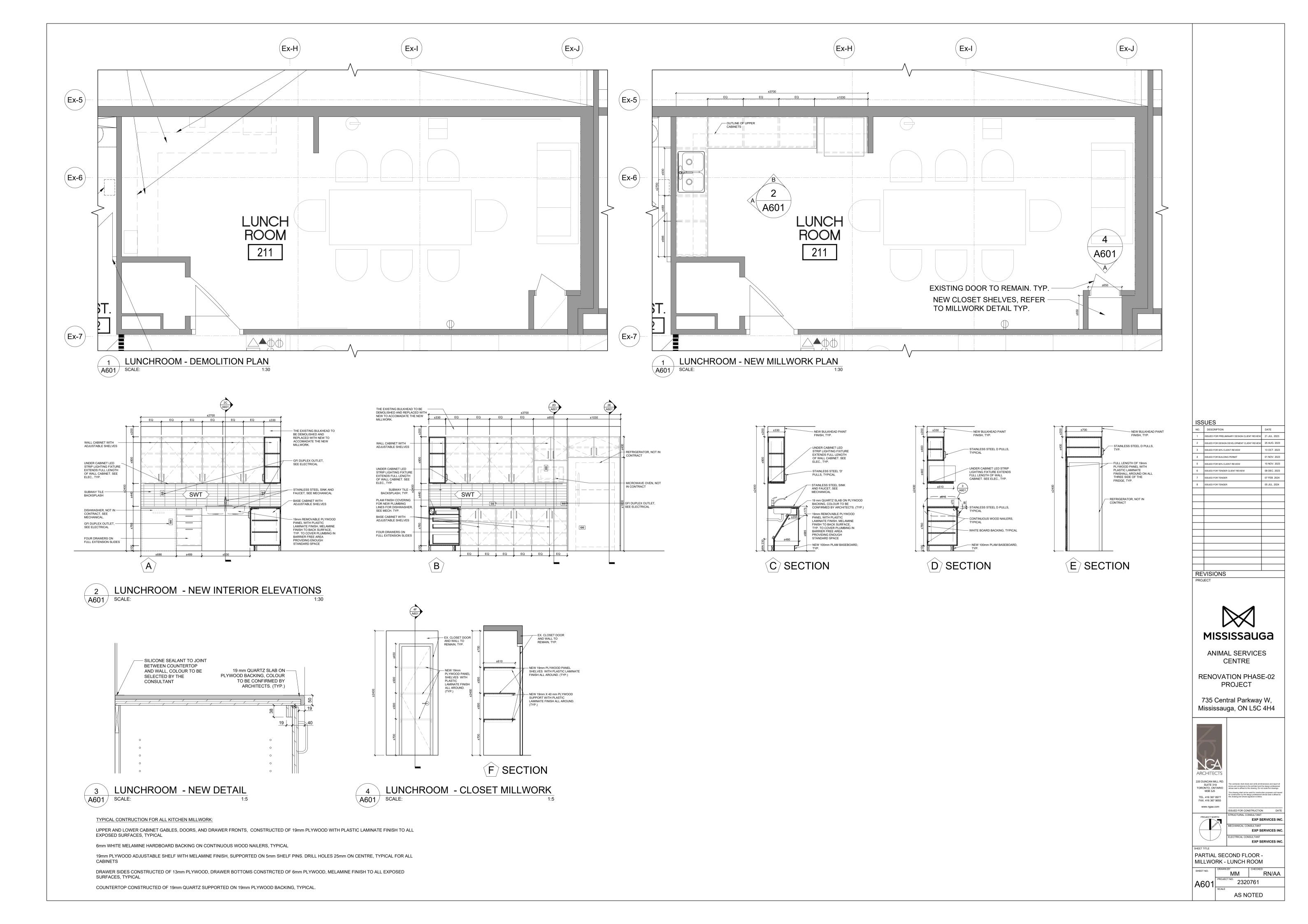


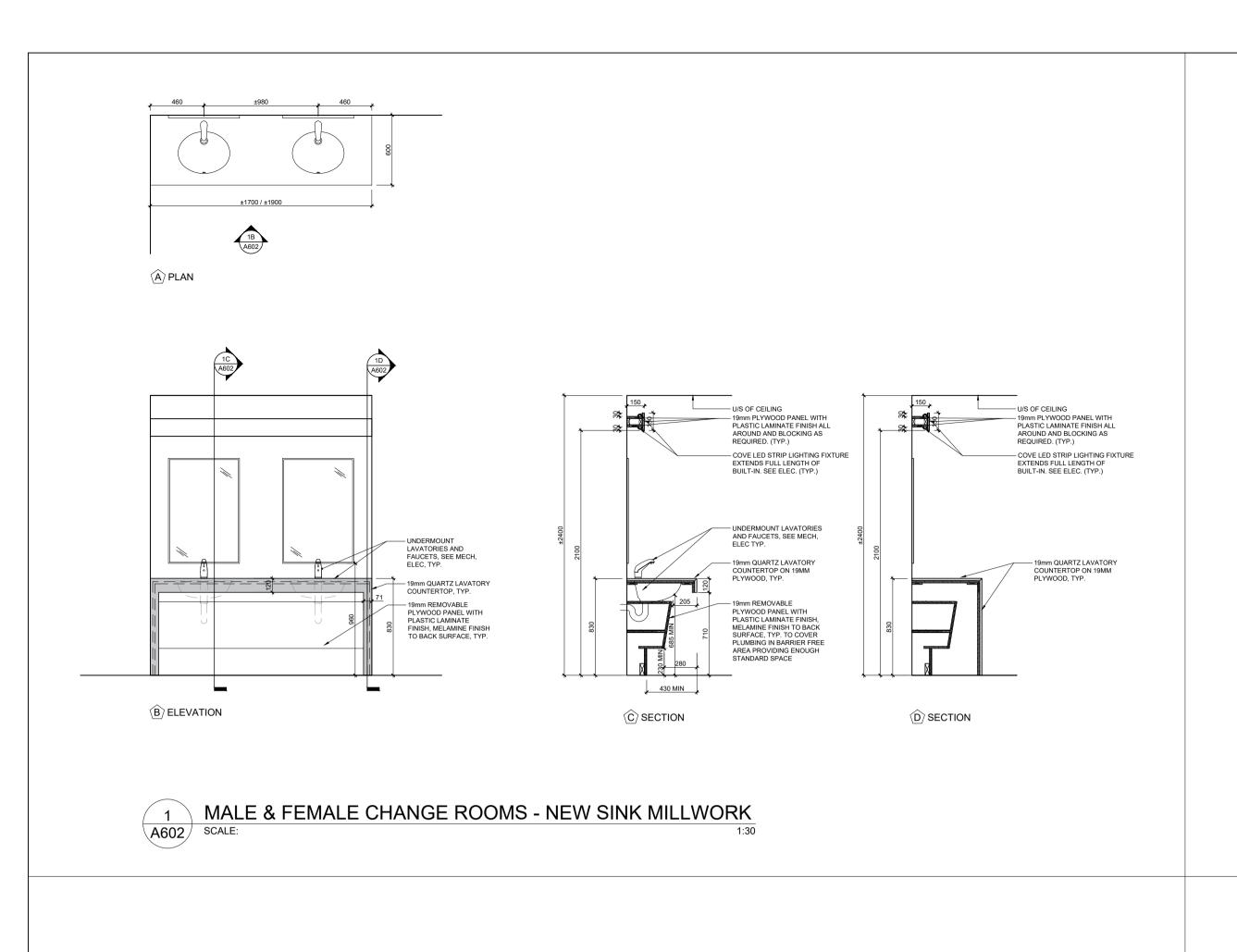
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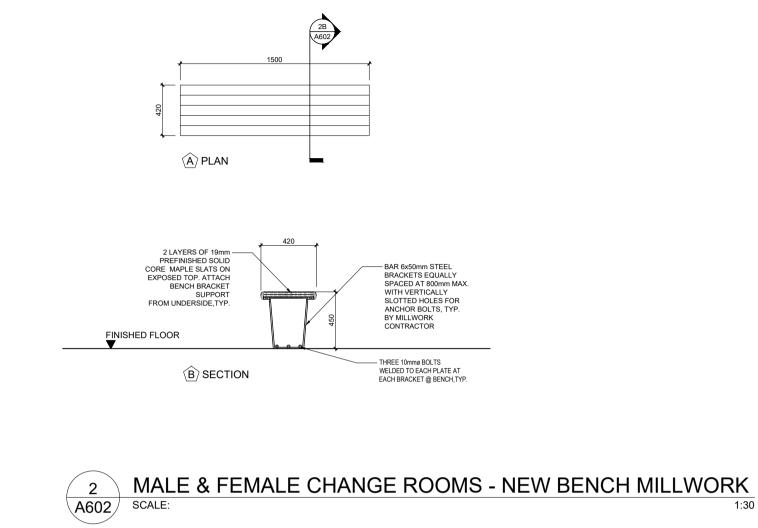
PARTIAL MAIN FLOOR -

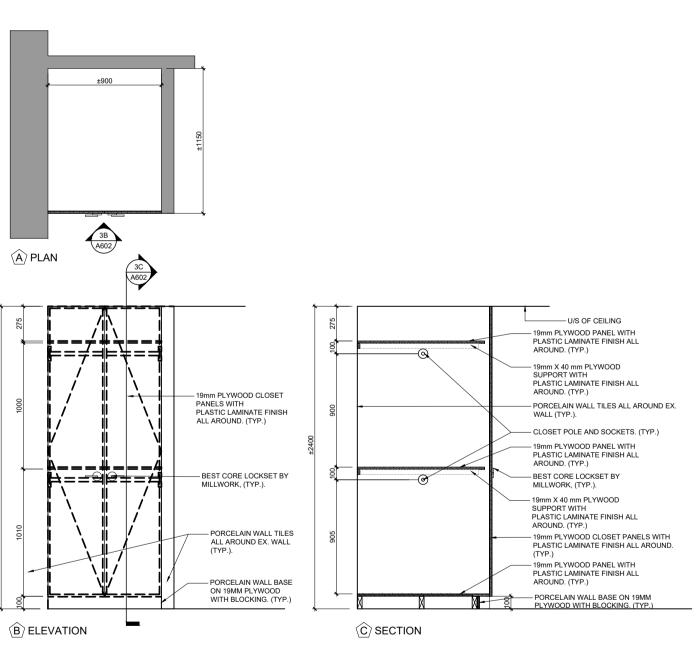
MILLWORK - RECEPTION MM

RN/AA 2320761 A600 AS NOTED









3 MALE CHANGE ROOM - NEW CLOSET MILLWORK
A602 SCALE:

REVISIONS

NO. DESCRIPTION

3 ISSUED FOR 50% CLIENT REVIEW 4 ISSUED FOR BUILDING PERMIT

8 ISSUED FOR TENDER

07 FEB. 2024

05 JUL. 2024

MISSISSAUGA ANIMAL SERVICES

CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



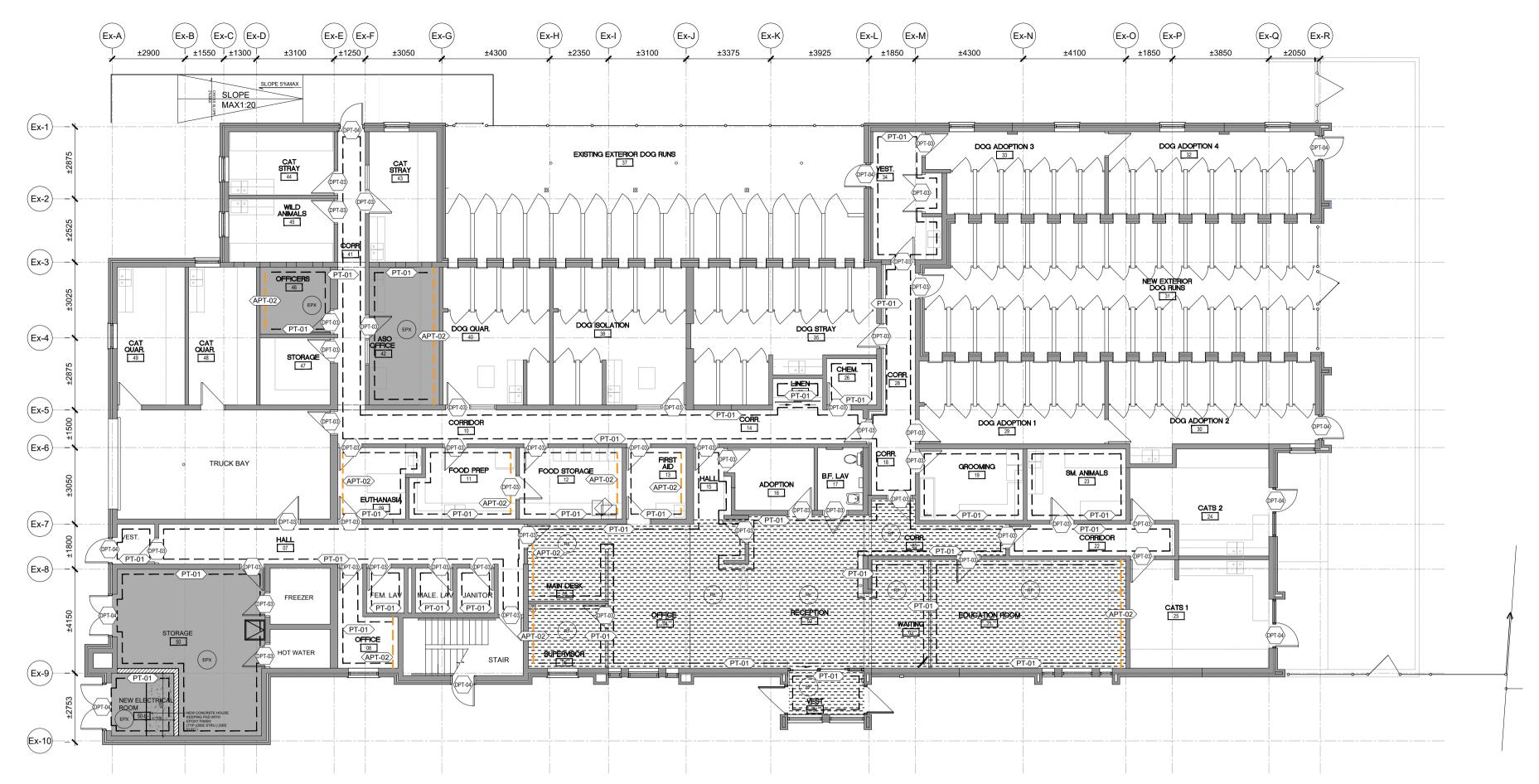
220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5 TEL. 416 367 8977 FAX. 416 367 9655



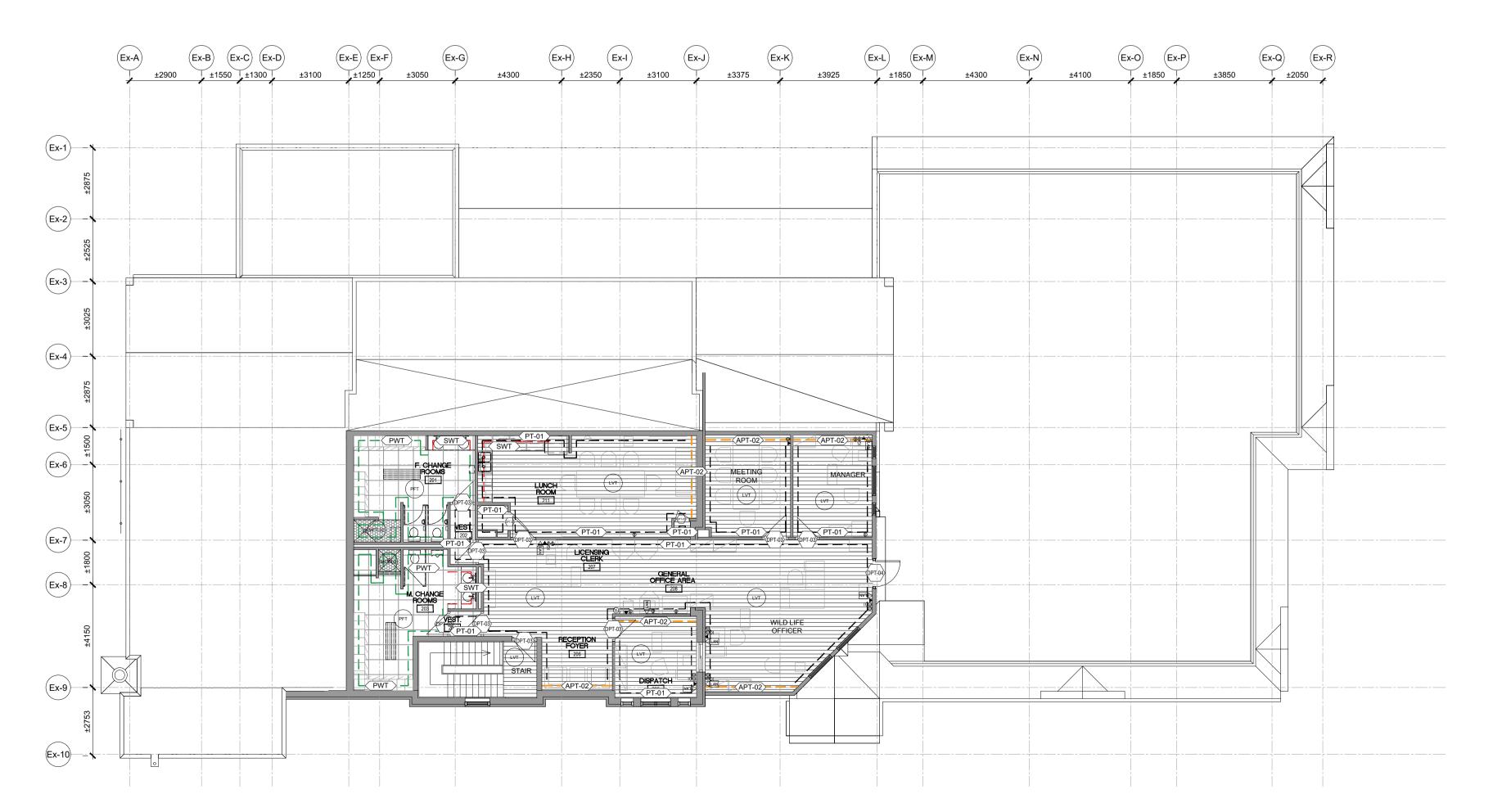
EXP SERVICES INC. EXP SERVICES INC. EXP SERVICES INC.

PARTIAL SECOND FLOOR -MILLWORK - MALE & FEMALE

CHANGEROOMS
SHEET NO. DRAWN BY MM RN/AA ° 2320761 A602



1 MAIN FLOOR - WALL AND FLOOR FINISH FINISH PLAN - NEW SCALE:



WALL FINISHES NEW LEGEND — PAINT FINISH - TYPE 1 APT-02 — 2 DIFFERENT TYPE ACCENT PAINT FINISH - TYPE 2 PAINT FINISH - INTERIOR DOOR - TYPE 3 DOOR, FRAME AND TRIMS TO BE SAND AND PAINTED FROM THE BOTH SIDE, TYP. PAINT FINISH - EXTERIOR DOOR - TYPE 2 DOOR, FRAME AND TRIMS TO BE SAND AND PAINTED FROM THE BOTH SIDE, TYP. — SWT — SUBWAY WALL TILE, 50 mm X 200 mm, TYP. — PORCELAIN WALL TILE, 305 mm X 610 mm, TYP. OOR FINISHES NEW LEGEND NEW NON-SLIP PORCELAIN FLOORING TILE 610 mm X 610 mm FLOOR FINISH WITH PORCELAIN TILE BASE, TYP. NEW MOSAIC FLOOR TILE FOR SHOWER AREA 305 mm X 305 mm FLOOR FINISH, TYP. NEW WOOD-LOOK LUXURY VINYL TILE FLOORING 153 mm X 1219 mm WITH RUBBER WALL BASE, TYP. NEW EPOXY FLOOR FINISH (3 COATS) WITH RUBBER WALL BASE, TYP. ALTRO FLOOR FINISH & COVE BASE: TEMPLE – D2509 OR EQUIVALENT RESILIENT FLOOR WITH RESILIENT COVE BASE, TYP. EX. **EXISTING**

M.G.A.T.

EVEN THOUGH THE FINISHES HAS BEEN SELECTED, GC IS TO PROVIDE MINIMUM 4 SAMPLES OPTIONS FOR PAINT, WALL AND FLOOR FINISHES FOR

CLIENT FINAL APPROVAL BEFORE PROCEEDING, TYP.

MAKE GOOD ON ALL TRADES AT JUNCTION

ISSUES

100	JOEO	
NO.	DESCRIPTION	DATE
1	ISSUED FOR PRELIMINARY DESIGN CLIENT REVIEW	21 JUL. 2
2	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. :
3	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 2
4	ISSUED FOR BUILDING PERMIT	01 NOV.
5	ISSUED FOR 90% CLIENT REVIEW	10 NOV.
6	ISSUED FOR TENDER CLIENT REVIEW	08 DEC. 2
7	ISSUED FOR TENDER	07 FEB. 2
8	ISSUED FOR TENDER	05 JUL. 2

REVISIONS



CENTRE **RENOVATION PHASE-02** PROJECT

ANIMAL SERVICES

735 Central Parkway W, Mississauga, ON L5C 4H4

NGA	
ARCHITECTS	
220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5	The co errors: whose
TEL. 416 367 8977 FAX. 416 367 9655	for cor this dr

EXP SERVICES INC.

AS NOTED

FLOOR FINISH AND WALL FINISH

MM RN/AA 2320761

SECOND FLOOR - WALL AND FLOOR FINISH FINISH PLAN - NEW 2 SEC A700 SCALE:

KOOW F	ROOM	FLO	OR	WALL E	BASE	N V	VALL	E V	VALL	S_W	ALL	w v	WALL	CEILI	ING		ROOM FINISH SCHEDULE LEGEND
MAIN FLO						_		_		_		_					ACT NEW SUSPENDED ACOUSTIC CEILING TIL CMU NEW 75 % SOLID FILL CONCRETE MASON
NUMBER		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT ROOM_REMARKS	DWC NEW DRYWALL CEILING
01	VESTIBULE	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	DWC	PT	±2400 MM	EPX NEW EPOXY FLOOR
02	RECEPTION	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT, DWC	PT	±2400 MM, ±2250MM	FRC NEW FIRE RATED SHAFT CEILING
03	WAITING	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT	-	±2400 MM	LVT NEW LUXURY VINYL TILE
04	OFFICE	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT	-	±2400 MM	MFT NEW MOSAIC FLOOR TILE
05	MAIN DESK	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT	-	±2400 MM	PFT NEW PORCELAIN FLOOR TILE (NON-SLIP
06	SUPERVISOR	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT	-	±2400 MM	PORB NEW PORCELAIN TILE BASE
07	HALL	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	PWT NEW PORCELAIN WALL TILE
08	OFFICE	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT NEW PAINT FINISH RB NEW RUBBER BASE
09	EUTHANASIA	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	NEW RESILIENT FLOOR (ALTRO OR
10	CORRIDOR	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	_	EX	RF-CB REQUIVALENT) RF-CB EQUIVALENT)
11	FOOD PREP	EX	_	EX	_	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	SWT NEW SUBWAY WALL TILE
			-		-												EX. EXISITNG
12	FOOD STORAGE	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	NOTES
13	FIRST AID	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	GC TO SAND AND PAINT ALL THE EXISTING AND NEW HOL METAL DOORS & FRAMES AND TRIMS FROM BOTH SIDES A
14	CORRIDOR	EX	-	EX	-	EX	РТ	EX	PT	EX	PT	EX	PT	EX. ACT	-	EX	THE WALL / FLOOR FINISH PLAN. (TYP.) GC TO SAND AND PAINT EX. EXPOSED BEAM FROM BOTH:
15	HALL	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	±2400 MM	(TYP.)
18	CORRIDOR	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	-	EX	
19	GROOMING	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
20	CORRIDOR	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	ACT	-	±2400 MM	
21	EDUCATION ROOM	RF	-	RF-CB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	-	±2400 MM	
22	CORRIDOR	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
23	SMALL ANIMALS	EX	-	EX	-	EX	РТ	EX	PT	EX	PT	EX	PT	EX	PT	EX	
26	СНЕМ	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
27	LINEN	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
28	CORRIDOR	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	-	EX	
34	VESTIBULE	EX	_	EX	_	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	_	EX	
						FX	PT						PT			±2400 MM	
41	CORRIDOR	EX	-	EX	-			EX	PT	EX	PT	EX		ACT	-		
42	ASO OFFICE	EPX	-	EPX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
46	OFFICERS ROOM	EPX	-	EPX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
50	STORAGE ROOM	EPX	-	EX	-	EX	PT	EX	PT	CMU	PT	CMU	PT	EXPOSED	-	-	
50-b	NEW ELECTRICAL ROOM	EPX	-	RB	-	CMU	PT	CMU	PT	EX	PT	EX	PT	FRC	PT	±2400 MM	
	VESTIBULE (#07)	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
	FEMALE LAVATORY	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
	MALE LAVATORY	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
	JANITOR	EX	-	EX	-	EX	PT	EX	PT	EX	PT	EX	PT	EX	PT	EX	
SECOND																	
201	FEMALE CHANGE ROOM	PFT/MFT	-	PORB	-	EX	PWT/SWT	EX	POR	EX	POR	EX	POR	EX.DWC	PT	±2400 MM	
		PFT											PT				
202	VESTIBULE		-	PORB	-	EX	PT	EX	PT	EX	PT	EX		EX.DWC	PT	±2400 MM	
203	MALE CHANGE ROOM	PFT/MFT	-	PORB	-	EX	PWT/SWT	EX	POR	EX	POR	EX	POR	EX. ACT	-	±2400 MM	
204	VESTIBULE	PFT	-	PORB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX. ACT	-	±2400 MM	
205	DISPATCH ROOM	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
206	RECEPTION FOYER	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
207	LICENSING CLERK	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
208	GENERAL OFFICE AREA / WILD LIFE OFFICE	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
209	MANAGER ROOM	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
	MEETING ROOM	LVT	-	RB	-	EX	PT	EX	PT	EX	PT	EX	PT	EX.DWC	PT	±2400 MM	
210	WILLING ROOM	LV I	-				PT	EX	PT								
210 	LUNCH ROOM	LVT	_	RB	_	EX			1	EX	PT	EX	PT	EX. ACT	_	±2400 MM	

ROO	M FINISH SCHEDULE LEGEND
ACT	NEW SUSPENDED ACOUSTIC CEILING TILE
CMU	NEW 75 % SOLID FILL CONCRETE MASONRY UNIT
DWC	NEW DRYWALL CEILING
EPX	NEW EPOXY FLOOR
FRC	NEW FIRE RATED SHAFT CEILING
LVT	NEW LUXURY VINYL TILE
MFT	NEW MOSAIC FLOOR TILE
PFT	NEW PORCELAIN FLOOR TILE (NON-SLIP)
PORB	NEW PORCELAIN TILE BASE
PWT	NEW PORCELAIN WALL TILE
PT	NEW PAINT FINISH
RB	NEW RUBBER BASE
RF	NEW RESILIENT FLOOR (ALTRO OR EQUIVALENT)

> 2 ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023 3 ISSUED FOR 50% CLIENT REVIEW 4 ISSUED FOR BUILDING PERMIT
> 5 ISSUED FOR 90% CLIENT REVIEW
> 6 ISSUED FOR TENDER CLIENT REVIEW 8 ISSUED FOR TENDER 05 JUL. 2024

REVISIONS PROJECT



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5 TEL. 416 367 8977 FAX. 416 367 9655

EXP SERVICES INC.

www.ngaa.com SSUED FOR CONSTRUCTION DATE
STRUCTURAL CONSULTANT

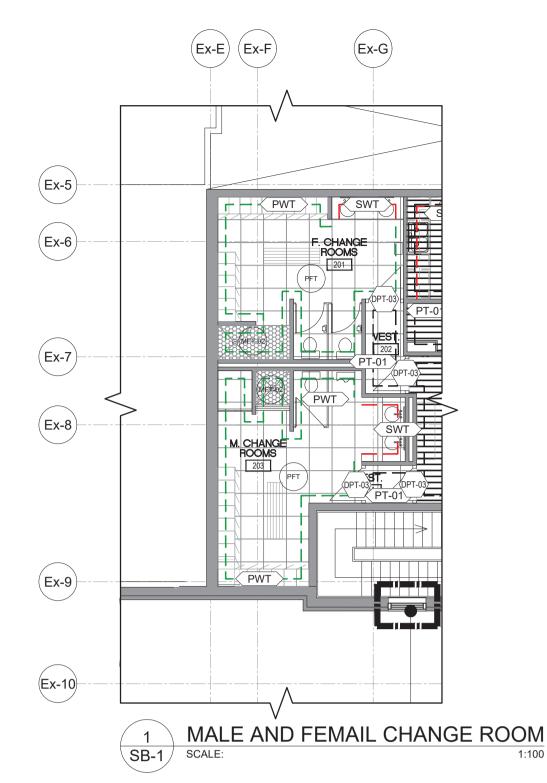
EXP SERVICES INC. CHANICAL CONSULTANT

EXP SERVICES INC.

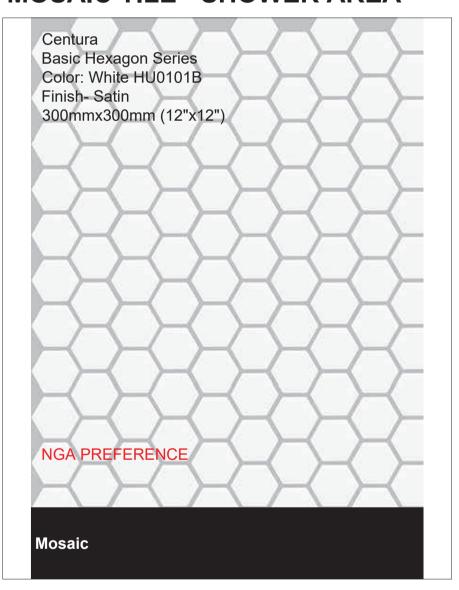
ROOM SCHEDULE

MM RN/AA
PROJECT NO. 2320761 AS NOTED

SAMPLE BOARD - CHANGE ROOMS

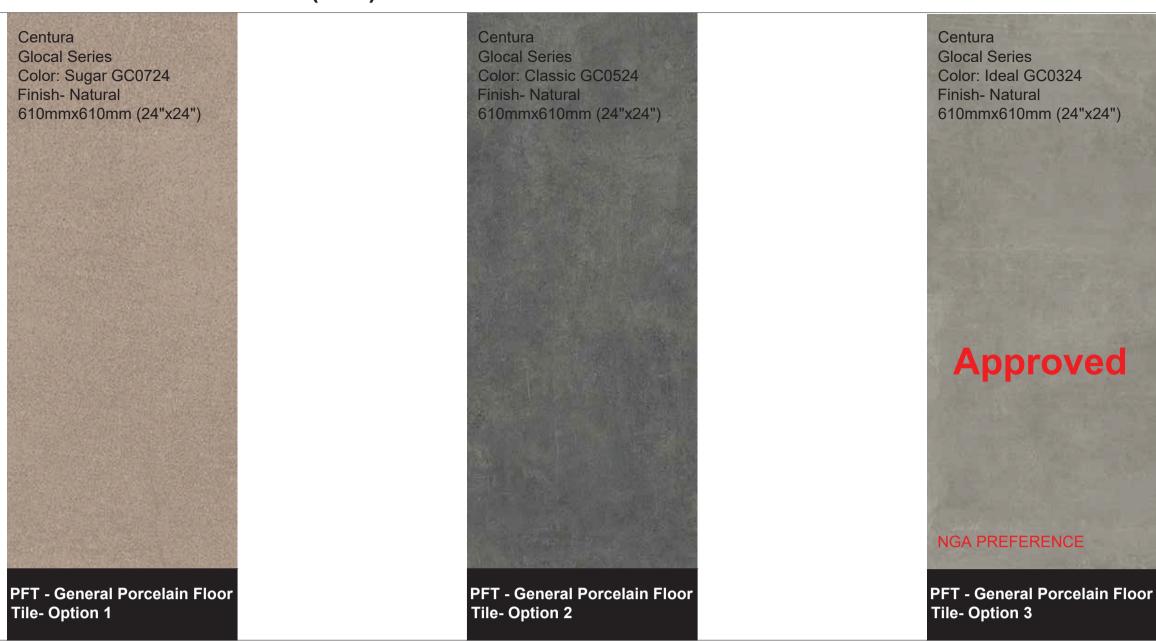


MOSAIC TILE - SHOWER AREA





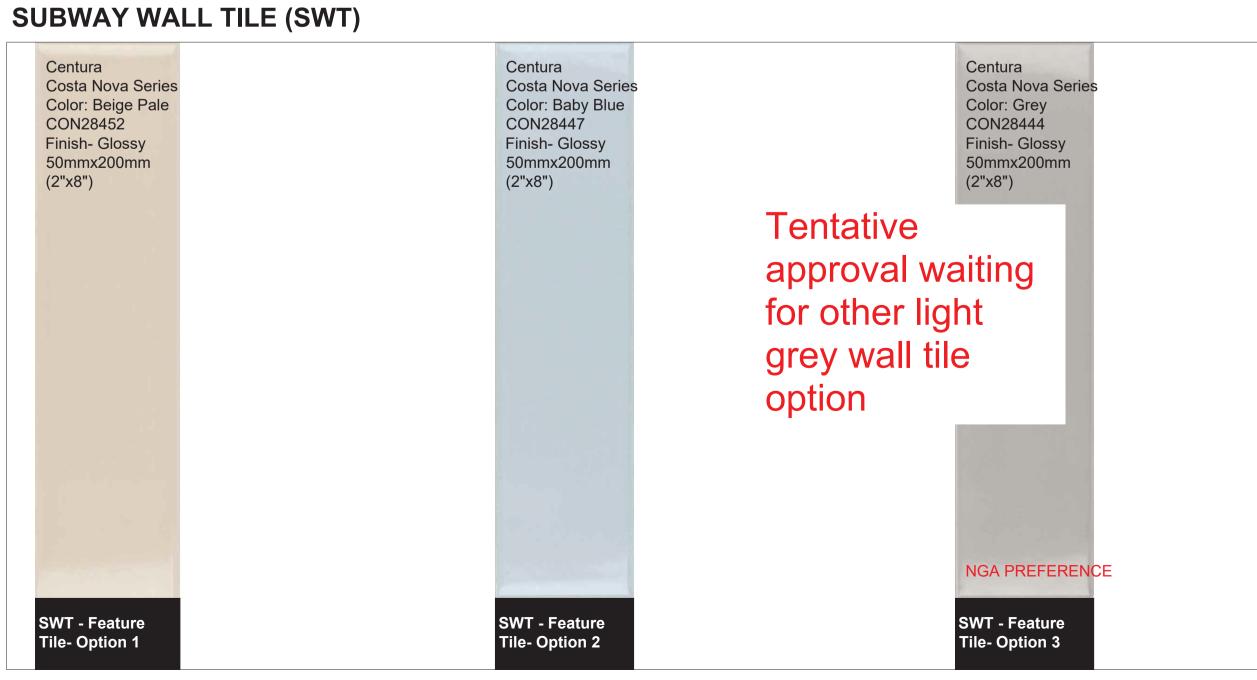
PORCELAIN FLOOR TILE (PFT)



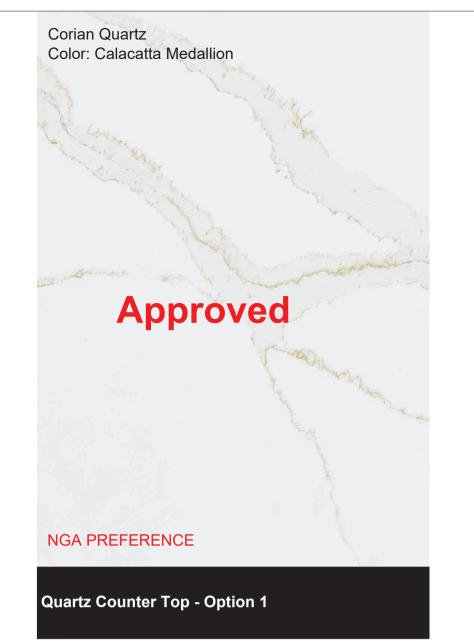
PORCELAIN WALL TILE (PWT)



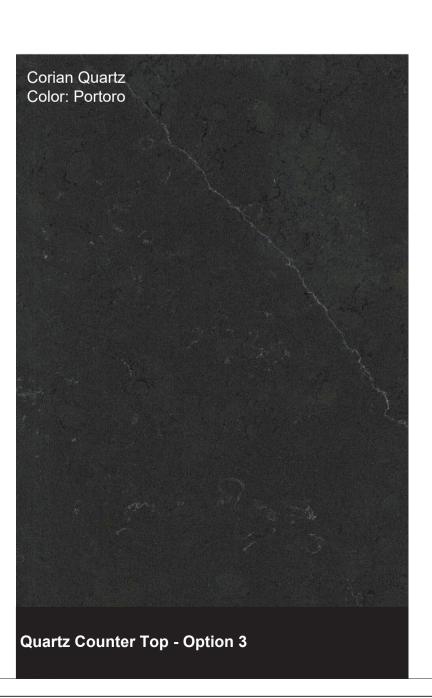
Approved



QUARTZ COUNTERTOP FINISH









ANIMAL SERVICES CENTRE

REVISIONS

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



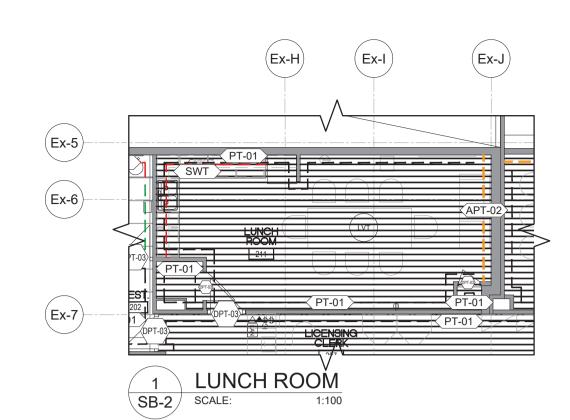
EXP SERVICES INC. EXP SERVICES INC.

AS NOTED

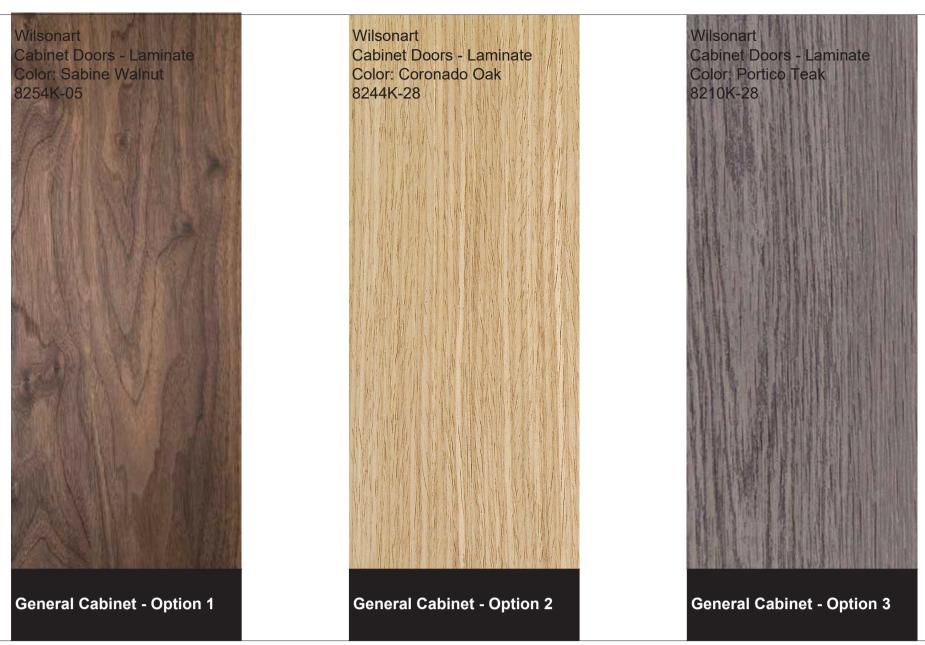
SAMPLE BOARD - CHANGE ROOMS

MM RN/AA 2320761

SAMPLE BOARD - LUNCH ROOMS



GENERAL CABINET



QUARTZ COUNTERTOP FINISH

Vilsonart

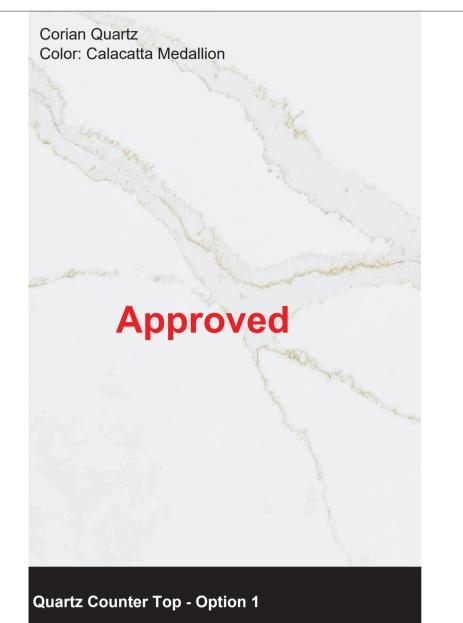
8235K-05

Color: Daintree

Cabinet Doors - Laminate

Approved

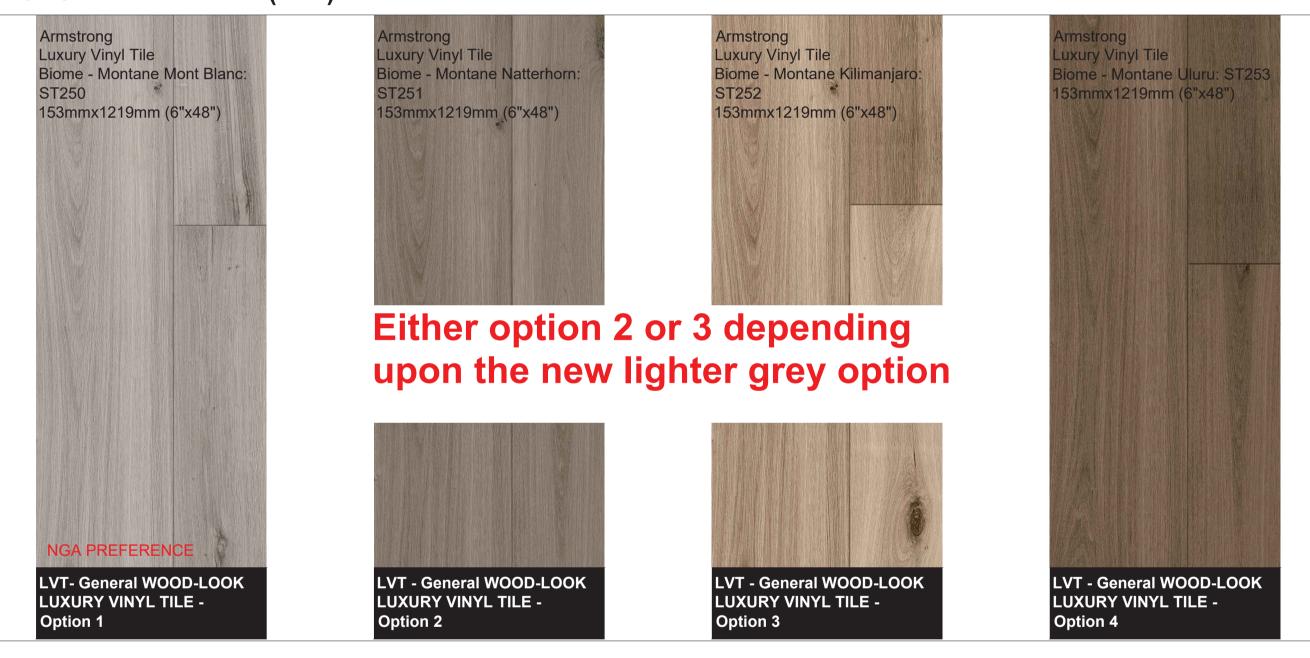
General Cabinet - Option 4



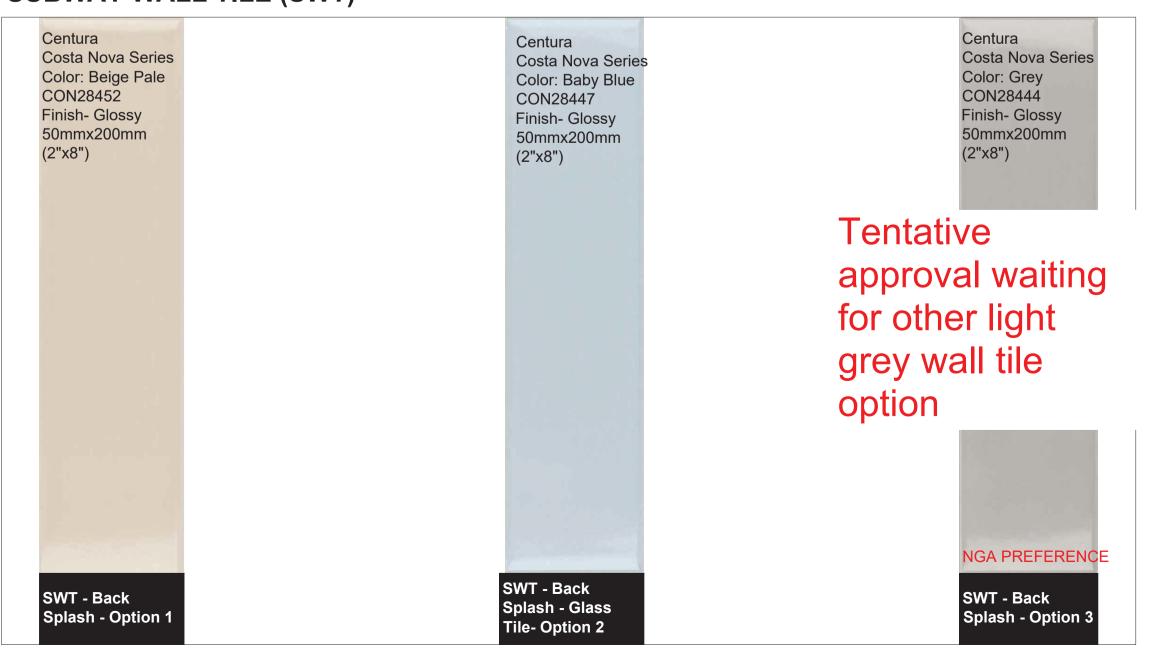




LUXURY VINYL TILE (LVT)



SUBWAY WALL TILE (SWT)





ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

REVISIONS

735 Central Parkway W, Mississauga, ON L5C 4H4



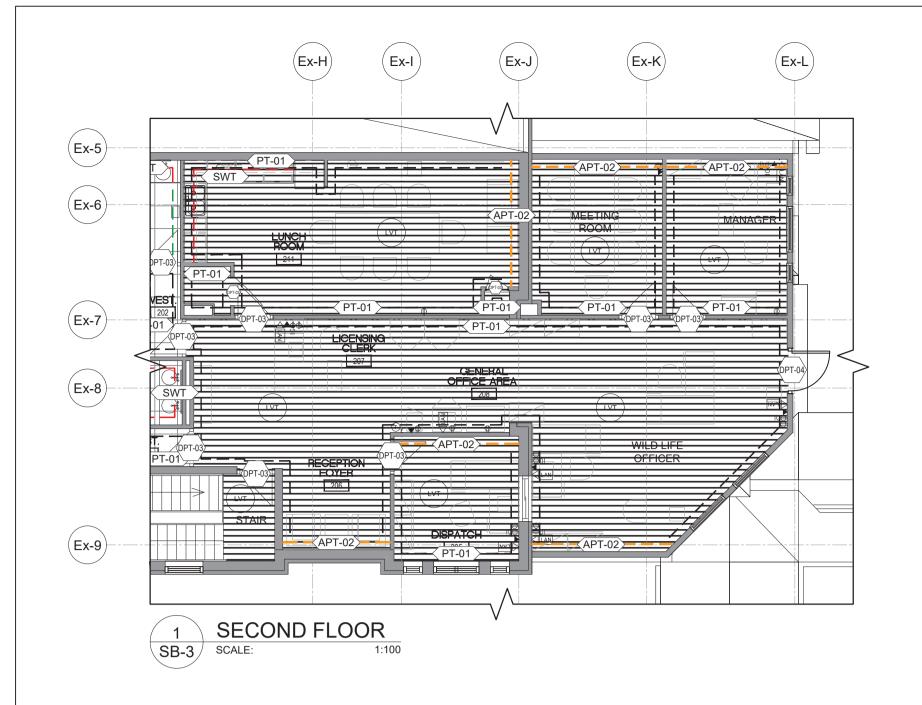
MECHANICAL CONSULTANT

EXP SERVICES INC.

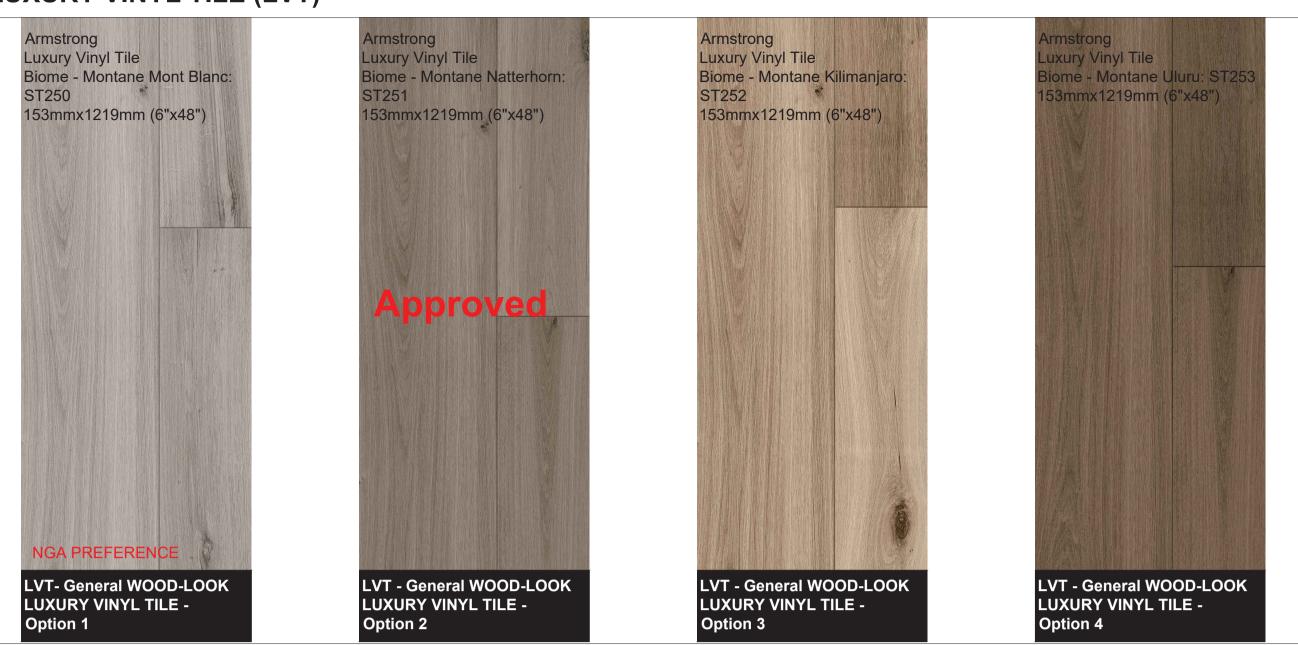
ELECTRICAL CONSULTANT

EXP SERVICES INC.

SAMPLE BOARD - KITCHEN

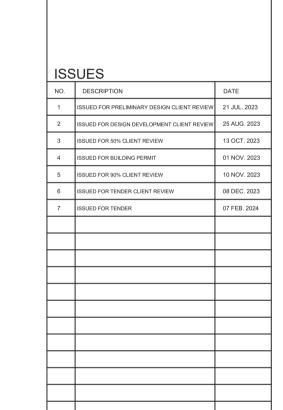


LUXURY VINYL TILE (LVT)



Finishes Approval

- Once additional Grey Subway tile option is provided final review of finishes to be completed
- Once project has been awarded and schedule provided with lead times for finishes reviewed and on site review of finishes completed final approval will be provided
- Each space will have one accent wall colour and remaining walls to be white
- There will be 2 accent wall colours along with the white paint, final options will be provided once on site review of finishes complete.





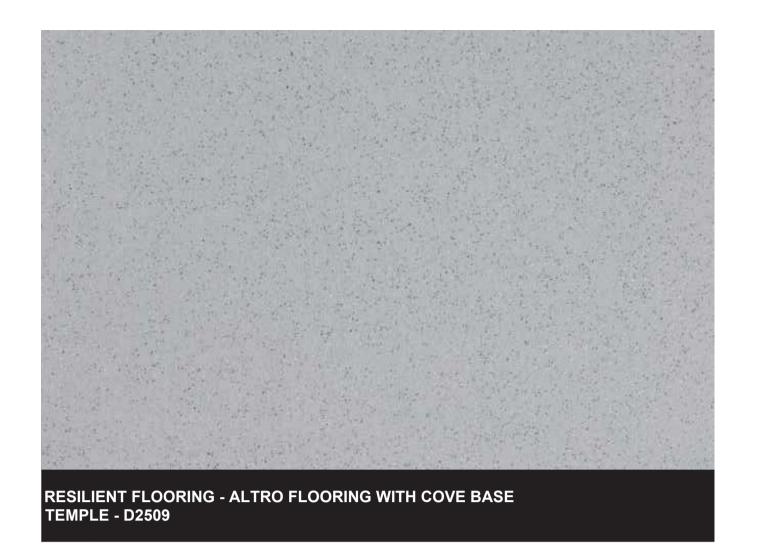
ANIMAL SERVICES

RENOVATION PHASE-02

735 Central Parkway W, Mississauga, ON L5C 4H4



GROUND FLOOR RECEPTION AREA CoM APPROVED FINISHES



Anti-fatigue matte along standing portion of

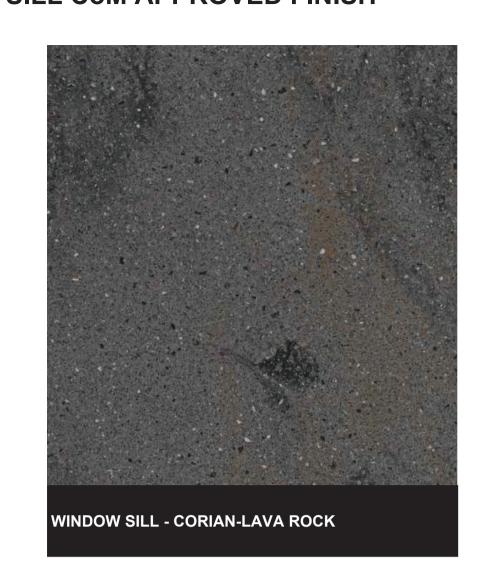


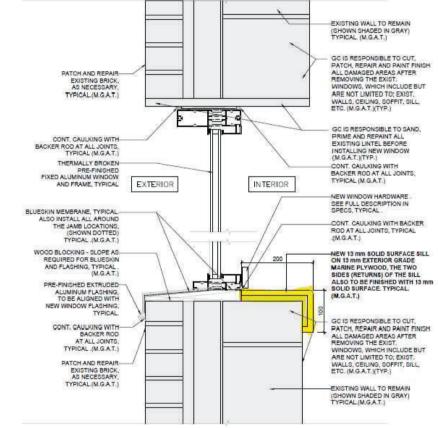
Glass to be across the entire counter with 7" opening from counter to underside of glass

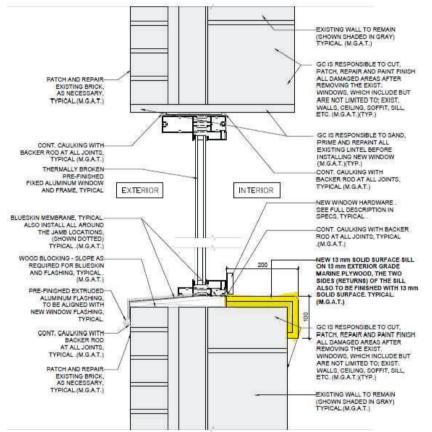


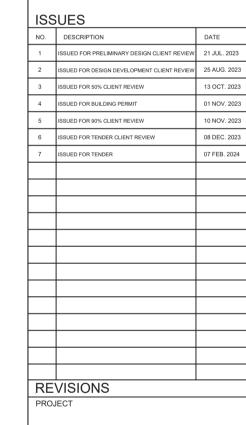


WINDOW SILL COM APPROVED FINISH











ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 **PROJECT**

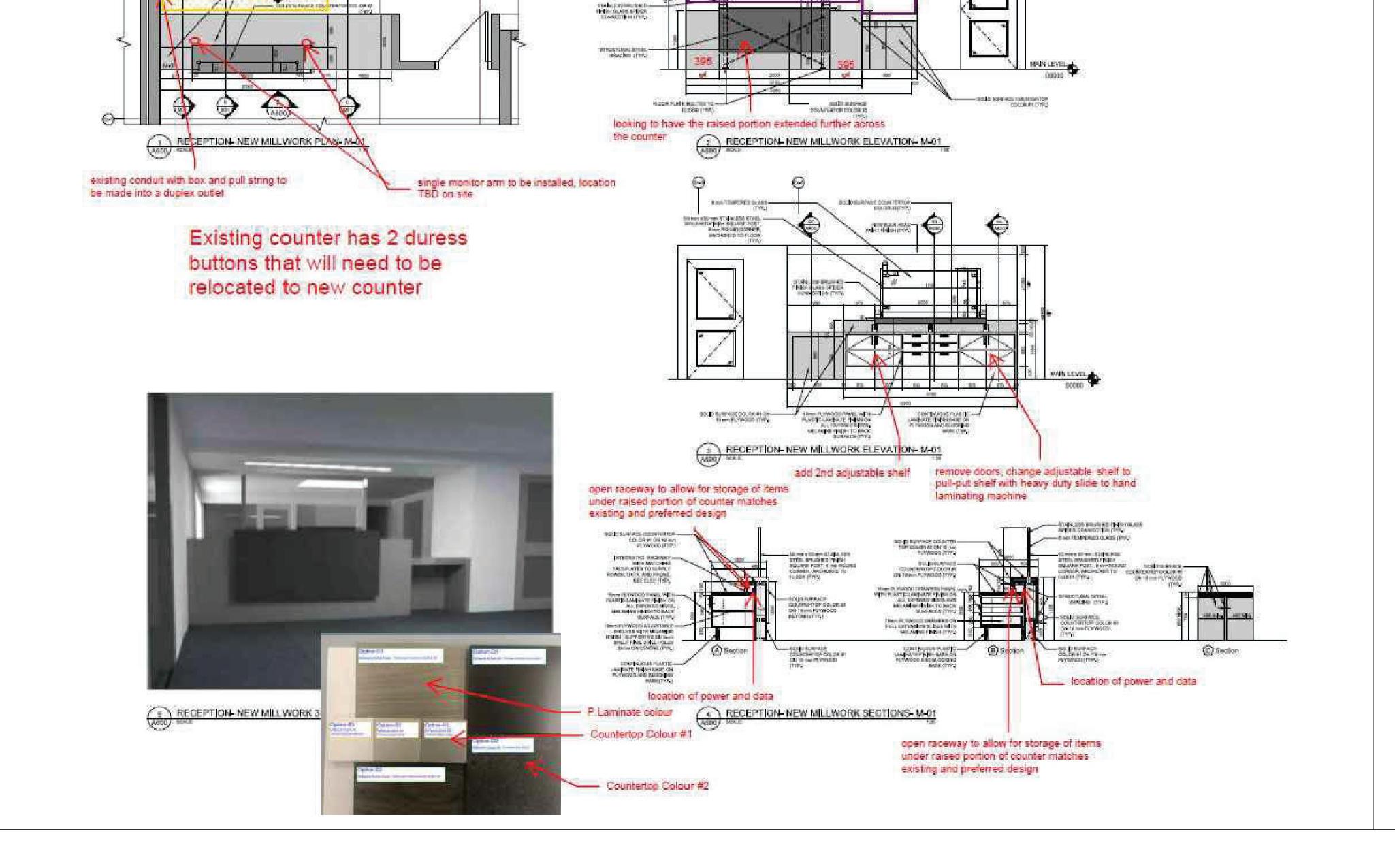
735 Central Parkway W, Mississauga, ON L5C 4H4



EXP SERVICES INC EXP SERVICES INC. EXP SERVICES INC.

SAMPLE BOARD - MAIN FLOOR

MM RN/AA 2320761 SB-4 AS NOTED



DESIGN LOAD GN-002CS UNIT FLOOR AND ROOF LOADINGS, SOIL BEARING PRESSURES AND FOUNDATION LOADS GIVEN ON PLANS ARE UNFACTORED. MEMBER FORCES GIVEN ON DRAWINGS ARE FACTORED. GRAVITY LOADS: SUPERIMPOSED DEAD LOADS AND LIVE LOADS ARE GIVEN ON PLANS. LIVE LOAD REDUCTIONS IN ACCORDANCE WITH OBC CLAUSE 4.1.5.8 HAVE BEEN TAKEN FOR DESIGN OF COLUMNS, FOUNDATIONS AND BEAMS. SNOW LOAD PARAMETERS, OBC 2012 (R2019) - MISSISSAUGA, ONTARIO Sr = 0.4Is ULS = 1.0 Is SLS = 0.9RAIN LOAD PARAMETER, OBC 2012 (R2019) - MISSISSAUGA, ONTARIO ONE DAY RAINFALL = 113 mm WIND LOAD PARAMETERS, OBC 2012 (R2019) - MISSISSAUGA, ONTARIO g(1/10) = 0.34 kPaq(1/50) = 0.44 kPaIw ULS = 1.0 lw SLS = 0.75SEISMIC LOAD PARAMETERS, OBC 2012 (R2019) - MISSISSAUGA, ONTARIO Sa (5.0) = 0.0068 Sa(0.2) = 0.219Sa(0.5) = 0.115Sa (10.0) = 0.0027 Sa(1.0) = 0.058PGA = 0.141 Sa(2.0) = 0.028PGV = 0.09SITE CLASSIFICATION = D Fa= 1.22 Fv = 1.53leFaSa(0.2)= 0.27

GN-004CS **EXCAVATION AND BACKFILL** GENERAL THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN THE WORK OF THIS SECTION: 1.1.1 OPSS 1010, MATERIAL SPECIFICATION FOR AGGREGATES – BASE, SUBBASE, SELECT SUBGRADE PRODUCTS: 2.1 MATERIAL 2.1.1 BACKFILL AROUND FOOTINGS, FOUNDATION WALLS, RETAINING WALLS TO OPSS GRANULAR B TYPE II 2.1.2 GRANULAR UNDERBED FOR SLABS-ON-GRADE (Select .1 or .2) 20 mm CLEAR LIMESTONE.

20 mm CRUSHER RUN LIMESTONE TO OPSS 1010 GRANULAR A, BUT WITH 100% PASSING 19 mm SIEVE. EXECUTION EXCAVATE TO FOOTING ELEVATIONS INDICATED ON DRAWINGS AND OBTAIN VERIFICATION FROM INSPECTION AND TESTING 3.1 COMPANY THAT BEARING MATERIAL IS AS ANTICIPATED. REMOVE UNSUITABLE MATERIAL AS INSTRUCTED. 3.2.1 PLACE GRANULAR MATERIAL SPECIFIED IN 2.1.1.1 EXCAVATED MATERIAL MAY BE USED AS BACKFILL PROVIDED THAT IT IS TESTED TO VERIFY THAT IT MEETS THE REQUIREMENTS FOR GRADING AND CLEANLINESS ACCORDING TO THE GEOTECHNICAL REPORT.

3.2.3 PLACE BACKFILL IN 150 mm (6") LAYERS AND COMPACT TO 95% SPMDD. GRANULAR UNDERBED FOR SLAB-ON-GRADE OBTAIN GEOTECHNICAL CONSULTANT'S WRITTEN CONFIRMATION THAT PREPARED SUBGRADE IS ACCEPTABLE FOR PLACEMENT OF GRANULAR UNDERBED.

PLACE GRANULAR MATERIAL SPECIFIED IN PER 2.1.2.1 PLACE 150 mm (6") THICK UNDERBED AND COMPACT TO 100% SPMDD.

4 FIELD QUALITY CONTROL

INSPECTION AND TESTING COMPANY SHALL PERFORM: 4.1.1 VERIFICATION OF FOUNDATION BEARING MATERIAL

4.1.2 TESTING OF GRANULAR MATERIALS TO CONFIRM THEY MEET GRADING AND COMPACTION REQUIREMENTS.

GENERAL NOTES GN-001CS

GENERAL

CHECK DIMENSIONS ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS. REPORT INCONSISTENCIES TO CONSULTANT BEFORE PROCEEDING WITH THE WORK.

READ DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS. DO NOT EXCEED DURING CONSTRUCTION DESIGN LOADS SHOWN ON PLANS REDUCED AS NECESSARY

UNTIL MATERIALS REACH DESIGN STRENGTH. DO NOT SCALE DRAWINGS.

DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.ELEVATIONS ARE IN METRES UNLESS NOTED

DESIGN

DESIGN IS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, 2012 EDITION.

2.2.1 CONCRETE MEMBERS ARE DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3-14.

MATERIALS

CONCRETE: SEE SCHEDULE OF CONCRETE PROPERTIES AND SPECIFICATION. REINFORCING STEEL: UNLESS NOTED OTHERWISE TO CSA G30. 18-09 GRADE 400W REINFORCING BAR AREA ARE 100, 200, 300, 500, 700, 1000, 1500 AND 2500 SQ. mm FOR BAR DESIGNATIONS 10M, 15M, 20M, 25M, 35M, 45M AND 55M RESPECTIVELY.

DEFORMED REINFORCING BARS: 400 MPa WELDED WIRE FABRIC: 440 MPa

STRUCTURAL ADEQUACY OF EXISTING BUILDING

STRENGTH:

UPON COMPLETION OF THE STRUCTURAL MODIFICATIONS AND UPGRADES DETAILED ON THE DRAWINGS AND SPECIFICATIONS PREPARED FOR THIS PROJECT. THE EXISTING REINFORCED STRUCTURE AND SUPPORTING MEMBERS WILL HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOADS IMPOSED BY THE PROPOSED RENOVATIONS.

WHERE SUPPLEMENTARY REINFORCING HAS NOT BEEN SPECIFIED TO EXISTING STRUCTURAL MEMBERS. THESE MEMBERS ARE EITHER NOT AFFECTED BY THE PROPOSED RENOVATIONS OR THEY HAVE BEEN ANALYZED AND CONFIRMED TO BE ADEQUATE AS-IS.

ABBREVIATIONS GN-010

		F'c	COMPRESSIVE STRENGTH		
AB	ANCHOR BOLT		OF CONCRETE	P,T,C,V,M,R	UNFACTORED LOADS
ADD	ADDITIONAL	FF	FAR FACE	PC	PRECAST
AESS	ARCHITECTURALLY		PARTAGE	PL	PLATE
	EXPOSED STRUCTURAL	GALV	GALVANIZED	PSL	PARALLEL STRAND
	STEEL	GALV	GALVANIZED		LUMBER
AIFB	ASPHALT IMPREGNATED	LID	LUCITETAM	PVC	POLYVINYL CHLORIDE
	FIBERBOARD	HB	HIGH BEAM		
ALT	ALTERNATIVE	HD	HANGER DOWN	REINF	REINFORCEMENT
AR	ANCHOR ROD	HEF	HORIZONTAL EACH FACE	RE	RIGHT END
ARCH	ARCHITECTURAL	HH	HOOK-HOOK	RTU	ROOF TOP UNIT
			(HOOK EACH END)		
B, BOTT	BOTTOM	HIF	HORIZONTAL INSIDE FACE	S	STANDARD BEAM
BC	BOTTOM ELEVATION OF	HL	HIGH LINE	SECT	SECTION
	CAISSON	HOF	HORIZONTAL OUTSIDE	SF	SPRAY FIRE PROOFED
BEW	BOTTOM EACH WAY	FACE		SDF	STEP DOWN FOOTING
BLL	BOTTOM LOWER LAYER	HOR	HORIZONTAL	SIM	SIMILAR
BM	BEAM	HP	HIGH POINT	SJ	STEEL JOIST
BMB	BENDING MOMENT BAR	HSC	HORIZONTALLY SLOTTED	SL	SLAB
	BEARING/BASE PLATE		CONNECTION		
BPL		HSS	HOLLOW STRUCTURAL	SOG	SLAB ON GRADE
BRG	BEARING	1100	SECTION	SP	SPANDREL, SPRUCE
BSMT	BASEMENT	HU	HANGER UP	SPF	SPRUCE PINE FIR
BUL	BOTTOM UPPER LAYER	110	HANGER OF	ST	STRAIGHT
		ID	INSIDE DIAMETER	STIRR	STIRRUP
C	STANDARD CHANNEL			STRUCT	STRUCTURAL
C/C	CENTRE TO CENTRE	IF	INSIDE FACE		
C/W	COMPLETE WITH	1.00	14155 BB 1 05	t	THICKNESS
CA	COLUMN ABOVE	KB	KNEE BRACE	T	TOP
СВ	COLUMN BELOW	kN	KILOWNEWTON	TC	TOP ELEVATION OF
CANT/CANTIL	CANTILEVER	kPa	KILOPASCAL		CAISSON
CF	CONCRETE			TCAP	TOP ELEVATION OF CAP
	FIREPROOFED	L	SINGLE ANGLE	TDL	TENSION DEVELOPMENT
CJ	CONTROL JOINT	2L	DOUBLE ANGLES	IDL	LENGTH
CL	CLEAR	LB	LOWER BEAM	TEW	TOP EACH WAY
C.L.	CENTRE LINE	LE	LEFT END	T&J	
		LG	LONG/LENGTH		TONGUE AND GROOVE
COMP	COMPOSITE	LL	LIVE LOAD	TJ	TIE JOIST
COL	COLUMN	LL	LOW LINE	TLE	TOP LEFT END
CONC	CONCRETE	LLV	LONG LEG VERTICAL	TLL	TOP LOWER LAYER
CONN	CONNECTION	LLH	LONG LEG HORIZONTAL	TOC	TOP OF CONCRETE
CONST JT	CONSTRUCTION JOINT	LP	LOW POINT	TOS	TOP OF STEEL
CONT	CONTINUOUS			TRE	TOP RIGHT END
		LSSJ	LONG SPAN STEEL JOIST	TSA	TENSION LAP SPLICE
DET	DETAIL	LVL	LAMINATED VENEER		CLASS 'A'
D FIR	DOUGLAS FIR		LUMBER	TSB	TENSION LAP SPLICE
DIA	DIAMETER				CLASS 'B'
DIM	DIMENSION	MAX	MAXIMUM	TUL	TOP UPPER LAYER
DL	DEAD LOAD	MC	MOMENT CONNECTION	TYP	TYPICAL
DP	DEEP	MC	MISCELLANEOUS CHANNEL		
DWG	DRAWING	MIN	MINIMUM	UB	UPPER BEAM
DWL	DOWEL	m	METER	U/S	UNDERSIDE
2112	DOWLL	m2	SQUARE METER	USD	UNDERSIDE OF DECK
EA	EACH	mm	MILLIMETER	UL	UPPER LAYER
ECR	EPOXY COATED	mm2	SQUARE MILLIMETER	U/N	UNLESS NOTED
ECR		MECH	MECHANICAL		
	REINFORCEMENT	MPa	MEGAPASCAL	UNO	UNLESS NOTED
EE	EACH END		11120/11/100/12		OTHERWISE
EF	EACH FACE	NBCC	NATIONAL BUILDING CODE	UPT	UPTURNED
EJ, EXP. JT	EXPANSION JOINT	NDOO	OF CANADA		
EL, ELEV	ELEVATION	NCB	NO COLUMN BELOW	VERT	VERTICAL
ELECT	ELECTRICAL	NF NF	NEAR FACE	VBF	VERTICAL BRACED
EMBED	EMBEDMENT				FRAME
EQ	EQUAL	NIC	NOT IN CONTRACT	VEF	VERTICAL EACH FACE
EW	EACH WAY	No	NUMBER	VIF	VERTICAL INSIDE FACE
EX, EXIST	EXISTING	NTS	NOT TO SCALE	VOF	VERTICAL OUTSIDE FACE
,				VSC	VERTICAL SLOTTED
FIN	FINISHED	OBC	ONTARIO BUILDING CODE		CONNECTION
FL	FLOOR	OC	ON CENTRE		
FTG	FOOTING	OD	OUTSIDE DIAMETER	W	WIDE FLANGE BEAM
FMC	FULL MOMENT	OF	OUTSIDE FACE	WP	WALL PLATE
1 WIO	CONNECTION	OPNG	OPENING	WT	STRUCTURAL TEE
Fy	YIELD STRENGTH	OWSJ	OPEN WEB STEEL JOIST	WWF	WELDED WIRE FABRIC
' ^y	HELD STRENGTH	Pf;Cf;Tf,Mf.Vf,Rf	FACTORED LOADS	WWF	WELDED WIRE FABRIC WELDED WIDE FLANGE
			-	AAAAL	WELDED WIDE FLANGE

CONCRETE & REINFORCING STEEL & FORMWORK

GENERAL THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN THE WORK OF THIS SECTION: 1.1.1 CSA A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION CSA A23.2, METHODS OF TEST FOR CONCRETE 1.1.3 CSA A3000, CEMENTITIOUS MATERIALS COMPENDIUM ASTM A1064/A1064M STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR 1.1.5 CSA G30.18, CARBON STEEL BARS FOR CONCRETE REINFORCEMENT CSA W186, WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION ASTM D3963/D3963M, STANDARD SPECIFICATION FOR FABRICATION AND JOBSITE HANDLING OF EPOXY-COATED STEEL REINFORCEMENT BARS 1.1.8 ACI 315, MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES 1.1.9 RSIC REINFORCING STEEL MANUAL OF STANDARD PRACTICE, 2006. 1.1.10 ACI 117, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY 1.1.11 CSA S269.1, FALSEWORK AND FORMWORK SUBMITTALS

1.2.1 SUBMIT CONCRETE MIX DESIGNS 1.2.2 SUBMIT REINFORCING STEEL SHOP DRAWINGS PREPARE PLACING DRAWINGS AND BAR LISTS INDICATING REINFORCING, DOWELS, CONCRETE COVER, CONSTRUCTION JOINTS

PRODUCTS

PLYWOOD: DOUGLAS FIR, MINIMUM THICKNESS17 mm TO CSA 0121, FINISHED ONE SIDE, FABRICATED SPECIALLY FOR USE AS CONCRETE FORM PANELS WITH SEALED EDGES.

ROUND COLUMN FIBRE FORMS: TO PRODUCE SMOOTH SURFACE WITHOUT FINS VOIDFORM: HONEYCOMB CELLULAR CORE STRUCTURE MANUFACTURED FROM KRAFT FIBRE.

REINFORCING BARS: TO CAN/CSA-G30.18, GRADE 400W WELDED WIRE FABRIC: TO ASTM A1064/A1064M AND IN FLAT SHEETS NOT ROLLS

VAPOUR BARRIER FOR SLABS ON GRADE: POLYETHYLENE MEMBRANE, 0.25 MM THICK TO ASTM E1745

EPOXY COATED REINFORCEMENT: FROM MINISTRY OF TRANSPORTATION APPROVED SOURCES TO ASTM D3963/D3963M CEMENTING MATERIALS

2.7.1 PORTLAND CEMENT: TO CSA A3000 TYPE GU OR GUL 2.7.2 CEMENTITIOUS HYDRAULIC SLAG AND FLY ASH: TO CSA A3000

AGGREGATE 2.8.1 FINE AGGREGATE FOR SLABS ON GRADE: FINENESS MODULUS BETWEEN 2.6 AND 3.1 2.8.2 COARSE AGGREGATE: 20 mm TO 5 mm UNLESS OTHERWISE SPECIFIED CORROSION INHIBITOR: CALCIUM NITRITE MEETING THE REQUIREMENTS OF CSA S413, APPENDIX C

CONTROL JOINT FILLER: SEMI-RIGID JOINT FILLER : QWIKJOINT UVR, BY EUCLID CANADA INC., TORONTO, ON. : LOADFLEX, BY SIKA CANADA INC., MISSISSAUGA, ON.

: PLANIBOND JF, BY MAPEI INC., BRAMPTON, ON.

2.12 PREMIXED GROUT: DRYPACK NON-SHRINK NON-METALLIC EXECUTION

CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

LOCATION	CLASS OF EXPOSURE	MIN. 28 DAY STRENGTH (MPa)	CEMENT SYMBOL	MAX. AGGREGATE SIZE (mm)	SLUMP (mm)	% AIR ENTRAINMENT
EXTERIOR MECHANICAL PADS	C1 (NOTE 1)	35	GU or GUL	20	80	5-8
INTERIOR MECHANICAL PADS	N	25	GU or GUL	20	80	5-8

Note 1: FOR CLASS C1, REPLACE A PORTION OF PORTLAND CEMENT WITH CEMENTITIOUS HYDRAULIC SLAG TO ACHIEVE 1500 COULOMB RATING AND INCORPORATE CALCIUM NITRITE CORROSION INHIBITOR, 15 LITRES/CUBIC METRE. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE. PROVIDE CHAIRS, TIES, SPACERS, ADDITIONAL

SUPPORT BARS AND STIRRUPS AS MAY BE REQUIRED. PROVIDE OPENINGS IN SLABS AND WALLS AS SHOWN ON STRUCTURAL DRAWINGS OR OTHERWISE REQUIRED BY VARIOUS TRADES. OBTAIN CONSULTANT'S APPROVAL FOR LOCATIONS AND SIZES OF OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. FORM ALL OPENINGS BEFORE

CONCRETE IS PLACED; DO NOT CUT OR CORE ANY OPENINGS AFTER CONCRETING UNLESS APPROVED BY THE CONSULTANT. PROVIDE SLEEVES IN SLABS AND WALLS FOR MECHANICAL PIPING WHEREVER POSSIBLE: AVOID CREATING OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. OBTAIN CONSULTANT'S APPROVAL FOR ALL SLEEVES. SUBMIT SLEEVING DRAWINGS FOR APPROVAL A MINIMUM TWO WEEKS PRIOR TO ELECTRICAL CONDUIT IN SLABS, BEAMS, WALLS AND COLUMNS SHALL BE APPROVED BY THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.

REFER TO TYPICAL DETAILS FOR GUIDELINES. CONSTRUCTION JOINTS FOR SLABS, BEAMS AND WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE CONSULTANT BEFORE CONSTRUCTION. REFER TO TYPICAL DETAILS.

COORDINATE AND INSTALL ALL REQUIRED EMBEDDED ITEMS, SLEEVES, INSERTS, FASTENING DEVICES ETC, BEFORE PLACING CONCRETE. INSTALL THESE ITEMS IN A MANNER THAT DOES NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM. DO NOT CUT OR BEND OR DISPLACE REINFORCEMENT OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS.

3.10.1 SEE FOUNDATION PLAN NOTES FOR BEARING CONDITIONS.

WHERE FLOOR DEPRESSIONS OCCUR MAINTAIN SLAB THICKNESS SPECIFIED ON THE FOUNDATION PLANS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND AREAS.

EACH POUR SHALL BE CONTAINED BY A VERTICAL BULKHEAD OR ABUTTING CONSTRUCTION JOINT. REFER TO TYPICAL DETAILS FOR CONSTRUCTION JOINTS AND CONTROL JOINTS.

DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIAL. ASCERTAIN THAT FORMS, REINFORCING STEEL AND ADJACENT CONCRETE SURFACES ARE ENTIRELY FREE OF FROST, SNOW AND ICE BEFORE PLACING CONCRETE. BEFORE PLACING SLAB-ON-GRADE VERIFY THAT:

SUBGRADE HAS BEEN COMPACTED TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT;

TRENCHES, HOLES ETC. THAT WERE DUG AFTER THE PREPARATION OF THE SUBGRADE HAVE BEEN FILLED WITH NEW GRANULAR MATERIAL AND COMPACTED TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT;

REINFORCING STEEL IS PROPERLY CHAIRED AND HELD SECURELY IN PLACE; ALL EQUIPMENT FOR THE FINISHING OF CONCRETE AND THE SAW CUTTING OF CONTROL JOINTS IS ON SITE AND WORKING

USE EARLY ENTRY SAW (SOFF-CUT, BY HUSQVARNA). COMMENCE SAWCUTTING AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF

SAW AND OPERATOR WITHOUT MARRING CONCRETÉ SURFACE AND WITHIN 2 HOURS OF COMPLETION OF FINAL FINISHING; FLOOR FINISH: HARD, SMOOTH, DENSE TROWELED SURFACE FREE FROM BLEMISHES.

FIELD QUALITY CONTROL

INSPECTION AND TESTING COMPANY SHALL PERFORM:

4.1.1 SAMPLING, INSPECTION AND TESTING IN ACCORDANCE WITH CSA A23.2 AND TO INCLUDE:

MAKING STANDARD SLUMP TESTS; OBTAINING OF THREE STANDARD SPECIMENS FOR STRENGTH TESTS FROM EACH 100 CUBIC METRES OF CONCRETE, OR FRACTION

THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED IN ANY ONE DAY; MAKING COMPRESSION TESTS OF EACH SET OF THREE SPECIMENS, ONE AT 7 DAYS AND TWO AT 28 DAYS;

VERIFICATION OF AIR CONTENT OF AIR-ENTRAINED CONCRETE;

VERIFICATION THAT CONCRETE CONTAINS CORROSION INHIBITOR WHERE SPECIFIED. DETERMINE CHLORIDE ION CONTENT IN ACCORDANCE WITH CSA STANDARDA23.2 TEST METHOD 4B.

INSPECTION OF TOLERANCES.

NON-STRUCTURAL ELEMENTS

GN-011CS

GN-003CS

"NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE STRUCTURAL DRAWINGS BY exp. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY DOCUMENTATION REQUIRED BY BUILDING PERMIT AUTHORITIES.

EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:

ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, MISCELLANEOUS STEEL STAIRS, FLAG POLES, CANOPIES, CEILINGS, MILLWORK, ETC.

LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.

CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS. ARCHITECTURAL PRECAST, PRECAST CLADDING.

SKYLIGHTS. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS. CONNECTIONS

DESIGNED SEISMIC RESTRAINT ACCORDING TO OBC 2012 CLAUSE 4.1.8.18 OR NBC 2015 CLAUSE 4.1.8.18.

WINDOW WASHING EQUIPMENT, FALL ARREST ANCHORS AND THEIR ATTACHMENTS.

ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS. GLASS BLOCK AND ITS ATTACHMENTS.

BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS. NON-LOAD BEARING MASONRY

NON-STRUCTURAL CONCRETE TOPPINGS.

SUBMIT SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM TO exd. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE LOAD EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM. NO. DESCRIPTION DATE ISSUED FOR 50% CLIENT REVIEW 01 NOV. 2023 ISSUED FOR 90% CD 10 NOV. 2023 ISSUED FOR TENDER 05 JUL. 2024 REVISIONS

ISSUES



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

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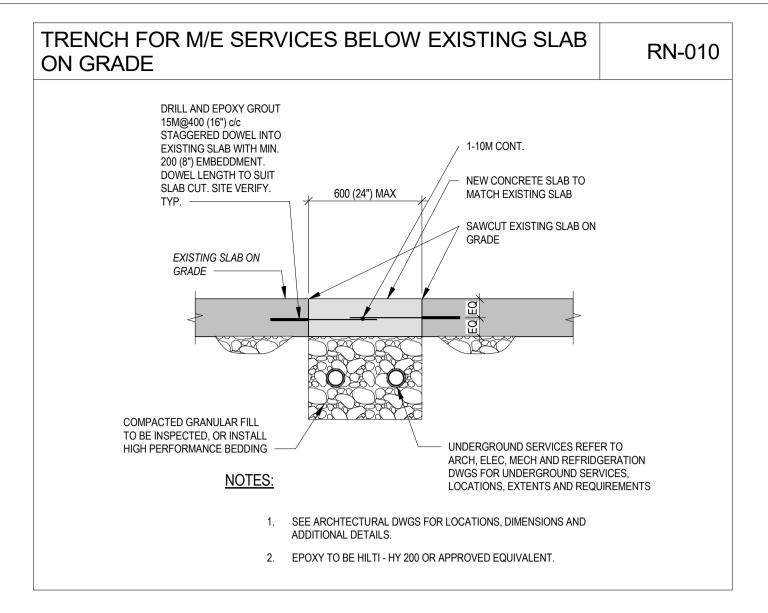
220 DUNCAN MILL RI SUITE 319 TORONTO, ONTARIO M3B 3J5 TEL. 416 367 8977 FAX. 416 367 9655

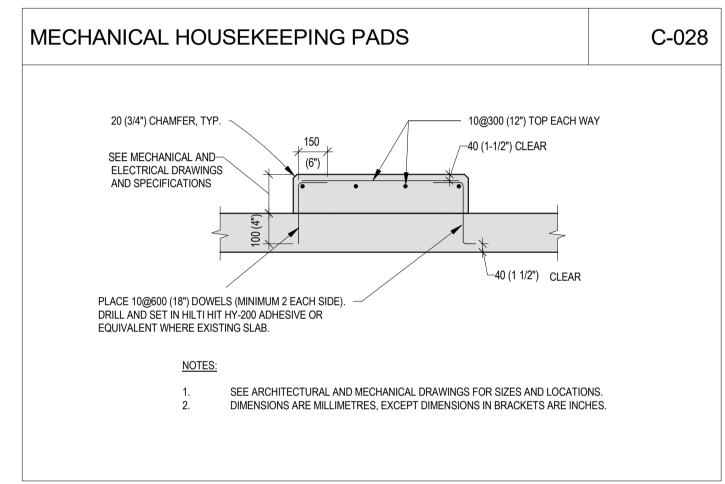
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> MECHANICAL CONSULTANT EXP SERVICES INC ELECTRICAL CONSULTANT EXP SERVICES INC.

GENERAL NOTES

MRK-23007421-A0

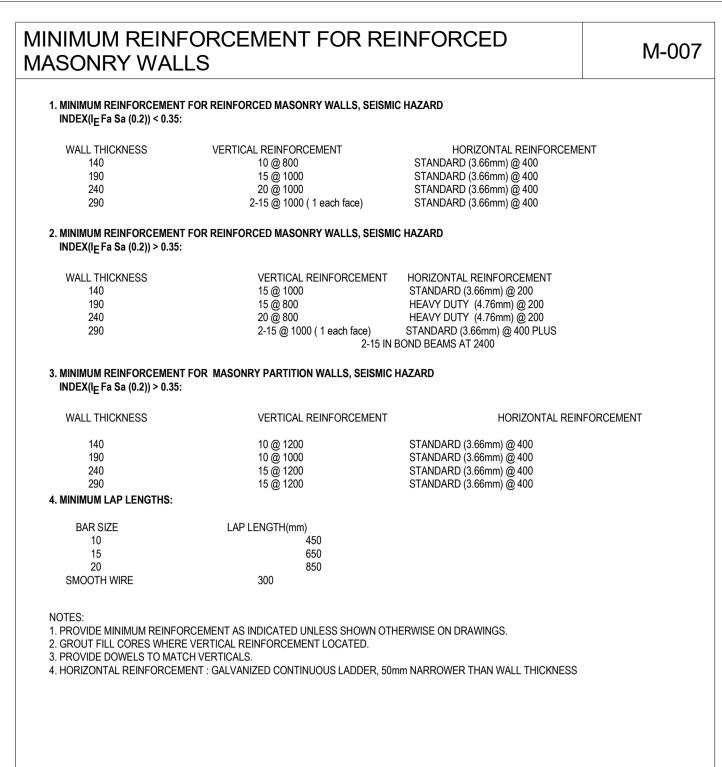


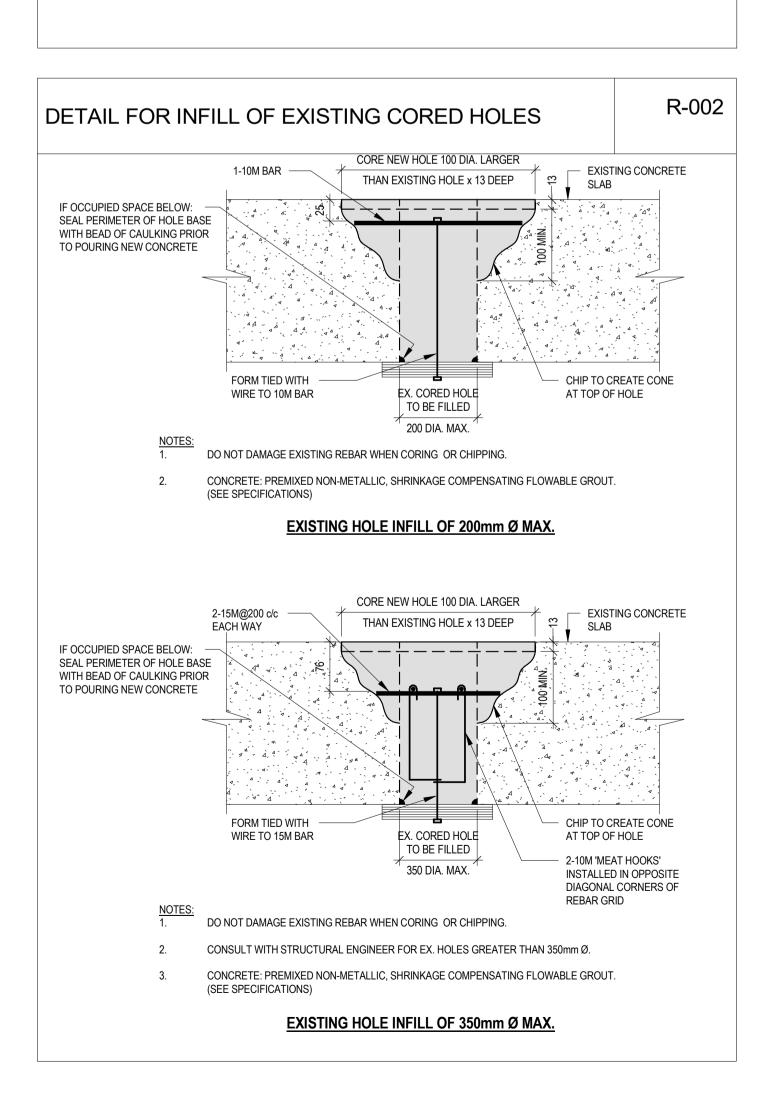


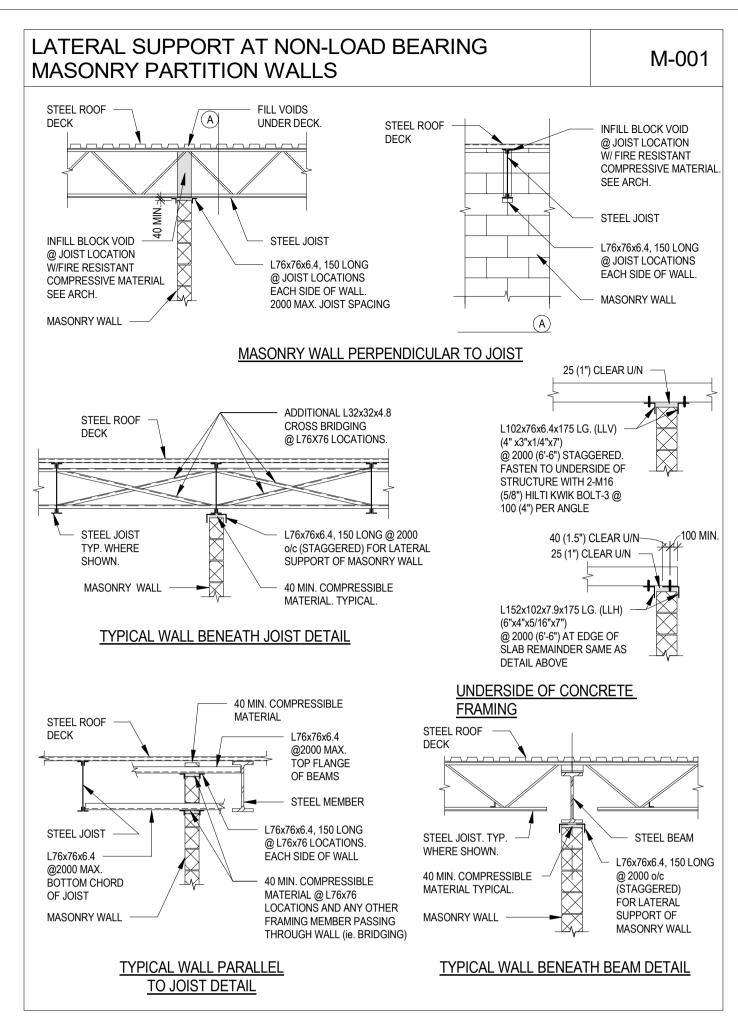
STRUCTURAL GUIDELINES FOR DRILLING, CUTTING & CORING THROUGH EXISTING CONCRETE STRUCTURE

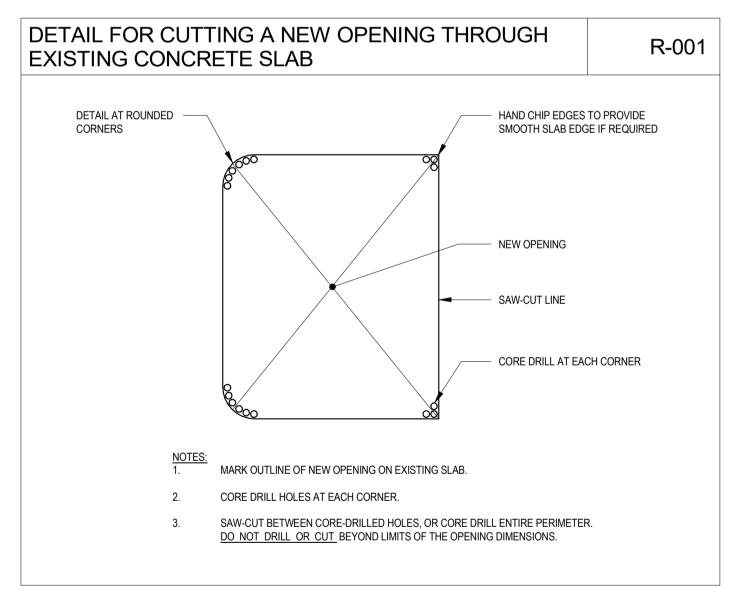
R-003

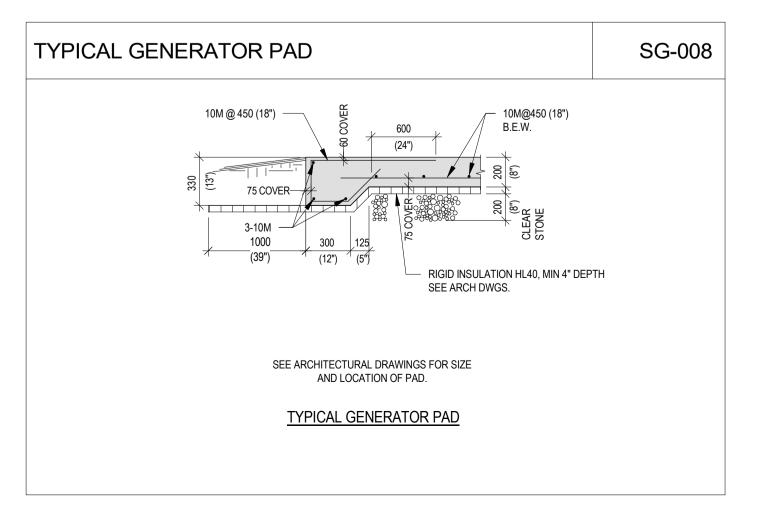
- **GENERAL**
 - ALL OPENINGS THROUGH EXISTING STRUCTURE REQUIRED FOR MECHANICAL AND ELECTRICAL SERVICES ARE TO BE LOCATED AND CUT IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED HEREIN. ALL PROPOSED NEW CORES AND OPENINGS THROUGH EXISTING STRUCTURE MUST BE REVIEWED ON SITE BY THE STRUCTURAL CONSULTANT PRIOR TO PROCEEDING WITH CUTTING OR CORING.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING COORDINATED SLEEVING AND CORING DRAWINGS SHOWING LOCATION, SIZE AND SPACING FOR PROPOSED NEW OPENINGS FOR ALL MECHANICAL AND ELECTRICAL SERVICES AND ALL EXISTING OPENINGS WITHIN THREE FEET OF NEW ONES. THE COORDINATED DRAWINGS SHALL BE PREPARED ON STRUCTURAL FRAMING PLAN BACKGROUNDS. ALL OPENINGS TO BE REFERENCED TO GRID LINES. INDIVIDUAL SUBMISSIONS OF DRAWINGS SHOWING MECHANICAL CORES ONLY OR ELECTRICAL CORES ONLY WILL NOT BE ACCEPTED. DO NOT DRILL OR CUT HOLES THROUGH EXISTING STRUCTURE PRIOR TO SUBMISSION OF SLEEVING DRAWINGS AND FINAL REVIEW BY STRUCTURAL CONSULTANT.
 - PRIOR TO DRILLING FOR ANCHOR BOLTS OR CUTTING HOLES IN EXISTING REINFORCED CONCRETE STRUCTURES LOCATE ALL TOP AND BOTTOM EXISTING REINFORCING STEEL USING 'HILTI FERROSCAN' OR 'GRAFSCAN RADAR' RADAR DETECTION SYSTEMS. RESULTS OBTAINED BY X-RAY WILL NOT BE ACCEPTED. ALLOW CONSULTANT TO REVIEW ALL RESULTS BEFORE PROCEEDING.
 - CUTTING NEW RECTANGULAR OPENINGS THROUGH EXISTING STRUCTURE: CORE DRILL AT CORNERS OF OPENING AND SAW CUT OR CORE DRILL AROUND PERIMETER. DO NOT OVER CUT BEYOND MINIMUM DIMENSION REQUIRED.
 - WHERE HOLES ARE IN A GROUP, SPACE AT LEAST 3 TIMES THE DIAMETER OF THE LARGER ADJACENT HOLE, CENTER TO CENTER.
- 1.6 DO NOT CUT ANY EXISTING REINFORCING STEEL WITHOUT WRITTEN AUTHORIZATION BY STRUCTURAL CONSULTANT.
- PROCEDURE FOR REVIEW OF NEW OPENINGS THROUGH EXISTING STRUCTURE
- 2.1 GENERAL CONTRACTOR TO SUBMIT COORDINATED CORING DRAWINGS TO ALL CONSULTANTS FOR REVIEW.
- MARK PROPOSED CORE LOCATION ON EXISTING STRUCTURE.
- SCAN EXISTING STRUCTURE TO IDENTIFY ALL REINFORCING STEEL IN AREA OF PROPOSED CORES. SCANNING CONTRACTOR SHALL CLEARLY MARK AND DISTINGUISH BETWEEN ALL TOP AND BOTTOM BARS.
- ALLOW STRUCTURAL CONSULTANT TO REVIEW EACH PROPOSED CORE LOCATION AND REINFORCING STEEL SCAN RESULTS ON SITE. ADJUSTMENTS TO FINAL POSITION OF CORE MAY BE NECESSARY TO MINIMIZE EFFECTS TO EXISTING REINFORCING STEEL

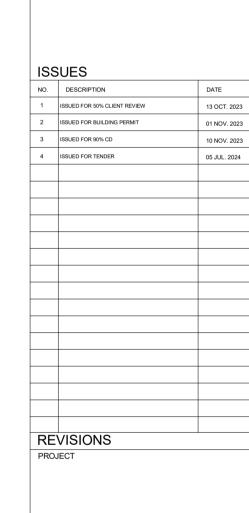














CENTRE

ANIMAL SERVICES

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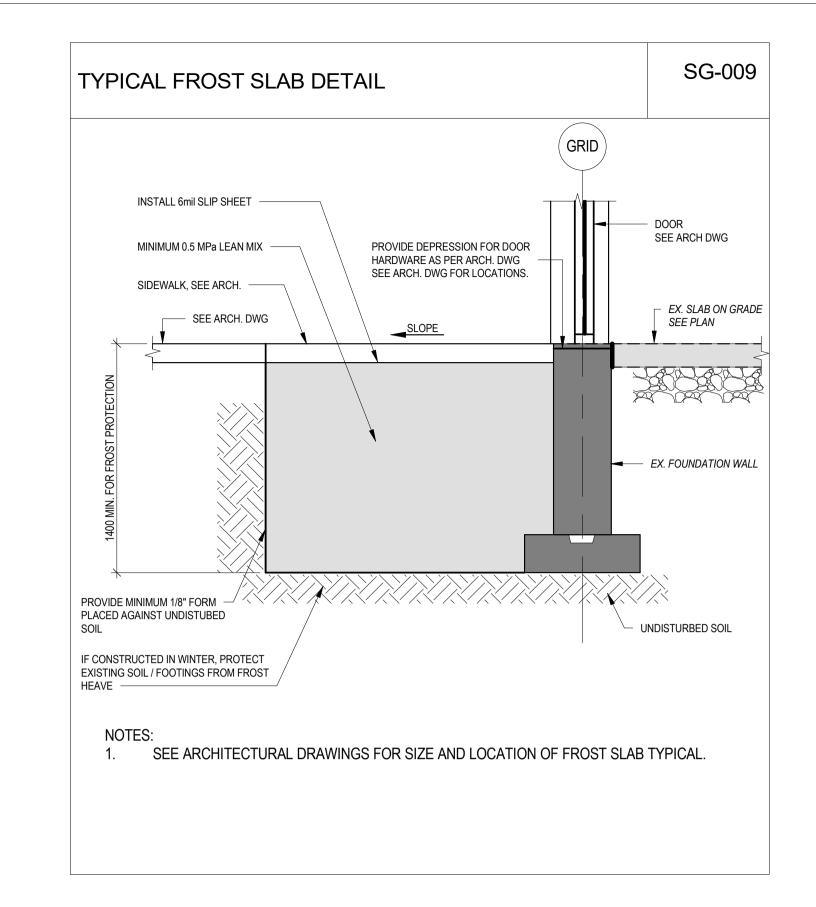


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TYPICAL DETAILS

MRK-23007421-A0 AS SHOWN



NO.	DESCRIPTION	DAT
1	ISSUED FOR 50% CLIENT REVIEW	13 0
2	ISSUED FOR BUILDING PERMIT	01 N
3	ISSUED FOR 90% CD	10 N
4	ISSUED FOR TENDER	05 J



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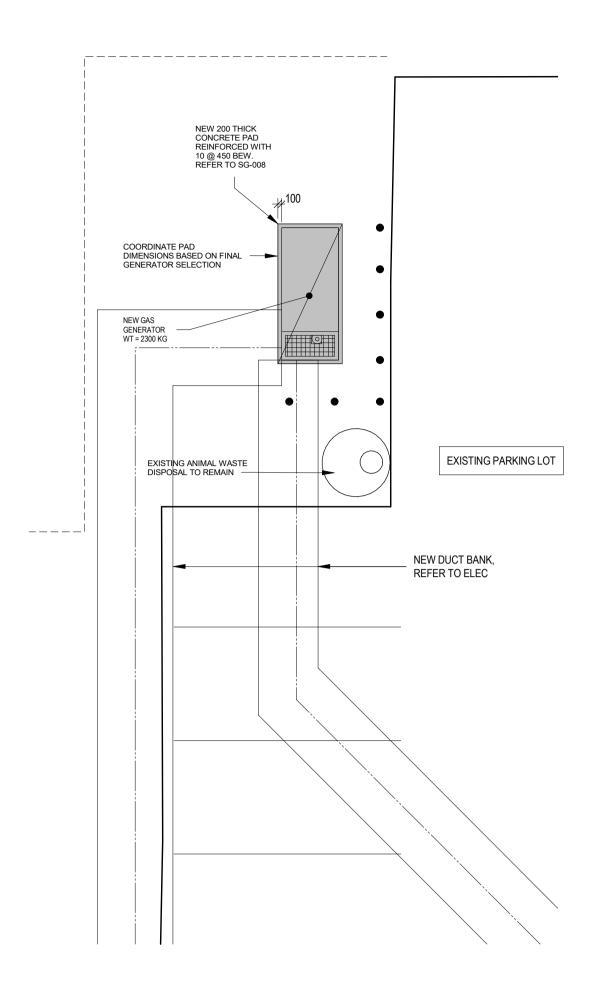
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TYPICAL DETAILS

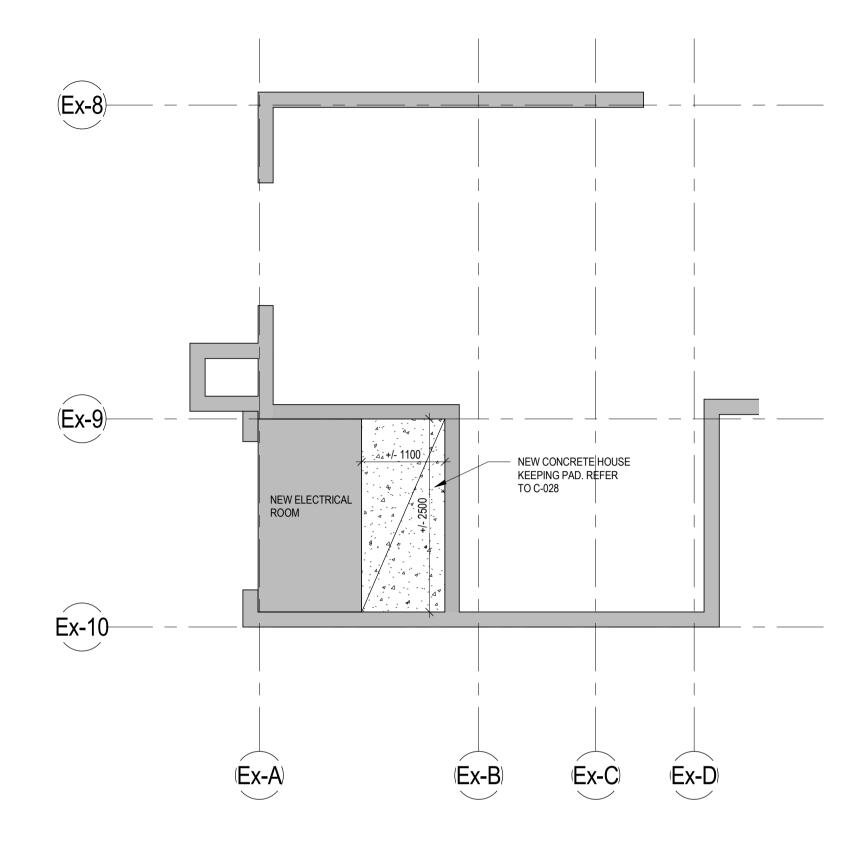
S103 MRK-23007421-A0

SCALE AS SHOWN AS SHOWN

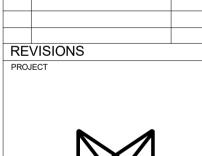


GENERATOR PAD PLAN

- 1. BEFORE PLACING SLAB ON GRADE VERIFY THAT BEARING CAPACITY OF SUB-GRADE AND COMPACTION OF SLAB-BASE ARE ADEQUATE TO SUPPORT 25 kPa UNIFORMLY DISTRIBUTED LOAD ON SLAB ON GRADE.
- 2. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF NEW GENERATOR PAD.
- 3. SEE GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS S101 AND S102



NEW ELECTRICAL ROOM FLOOR PLAN



DATE

01 NOV. 2023

10 NOV. 2023

ISSUES

3 ISSUED FOR 90% CD

4 ISSUED FOR TENDER

MISSISSAUGA

ANIMAL SERVICES CENTRE

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GENERATOR PAD PLAN & ELECTRICAL ROOM PLAN

S201 PROJECT NO. MRK-23007421-A0 AS SHOWN

GENERAL ABBREVIATIONS					
°F	DEGREES FAHRENHEIT	MBH	THOUSAND BRITISH THERMAL UNITS PER		
°C	DEGREES CELSIUS		HOUR		
Ø	DIAMETER	MCA	MINIMUM CIRCUIT AMPS		
AD	ACCESS DOOR	MCC	MOTOR CONTROL CENTER		
ADJ	ADJUSTABLE	ME	MOISTURE ELIMINATOR		
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL		
AFG	ABOVE FINISHED GRADE	MEZZ	MEZZANINE		
ARCH	ARCHITECT	MFR	MANUFACTURER		
ATC	AUTOMATIC TEMPERATURE CONTROL	MIN	MINIMUM		
ATV	ATMOSPHERIC VENT	MOCP	MAXIMUM OVERCURRENT PROTECTION		
BFF	BELOW FINISHED FLOOR	MTD	MOUNTED		
BHP	BRAKE HORSEPOWER	N/A	NOT APPLICABLE		
BOD	BOTTOM OF DUCT	NC	NORMALLY CLOSED OR NOISE CRITERIA		
BMS	BUILDING MANAGEMENT CONTROL SYSTEM	NIC	NOT IN CONTRACT		
ВОР	BOTTOM OF PIPE	NO	NORMALLY OPEN OR NUMBER		
BTU	BRITISH THERMAL UNIT	NOM	NOMINAL		
BTUH	BRITISH THERMAL UNIT PER HOUR	NTS	NOT TO SCALE		
CLG	CEILING	ОВ	OCTAVE BAND		
CL	CENTERLINE	ОС	ON CENTER		
COL	COLUMN	ODP	OPEN DRIP PROOF		
CONC	CONCRETE	OFCI	OWNER FURNISHED CONTRACTOR INSTALI		
CUF	CUBIC FEET	OFOI	OWNER FURNISHED OWNER INSTALLED		
CYL	CYLINDER	OV	OUTLET VELOCITY		
DB	DRY BULB TEMPERATURE	PCF	POUNDS PER CUBIC FOOT		
DDC	DIRECT DIGITAL CONTROL	PD	PRESSURE DROP		
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	PH	PHASE		
DIM	DIMENSION	PLBG	PLUMBING		
DN	DOWN	POC	POINT OF CONNECTION		
DP	DIFFERENTIAL PRESSURE	POD	POINT OF DEMARCATION		
DWG	DRAWING	POS	POSITION OR POSITIVE		
EA	EACH	PSIA	POUNDS PER SQUARE INCH ABSOLUTE		
EFF	EFFICIENCY	PSID	POUNDS PER SQUARE INCH DIFFERENTIA		
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE		
ELEV	ELEVATION	RC			
EMER			ROOM CRITERIA (NOISE)		
	EMERGENCY	RET	RETURN		
ENT	ENTERING	REQD	REQUIRED RELATIVE HUMBITY		
EQUIP	EQUIPMENT	RH	RELATIVE HUMIDITY		
EXH	EXHAUST	RM	ROOM		
EXP	EXPANSION	RPM	REVOLUTIONS PER MINUTE		
(E)	EXISTING EXISTING TO BE DEMOVED	SC	SENSIBLE COOLING		
EXTRM	EXISTING TO BE REMOVED	SCH	SCHEDULE SENCIPLE HEAT		
ETR	EXISTING TO REMAIN	SH	SENSIBLE HEAT		
FA	FIRE ALARM	SHT	SHEET		
FD	FLOOR DRAIN	SPEC	SPECIFICATION		
FFOP	FIREFIGHTERS OVERRIDE PANEL	SQ	SQUARE		
FLR	FLOOR	SQFT	SQUARE FEET		
FP	FIRE PROTECTION	SS	STAINLESS STEEL		

STD

SUP

TOD

TOP

STANDARD

TEMPERATURE

TOP OF DUCT

TOP OF PIPE

UNO UNLESS NOTED OTHERWISE

UTR UP THROUGH ROOF

VENT

VEL VELOCITY

W/O WITHOUT

VAV VARIABLE AIR VOLUME

WIDTH

WITH

WG WATER GAUGE

XFMR TRANSFORMER

WB WET BULB TEMPERATURE WIDE FLANGE

THERMOSTATIC AIR VENT

TONS OF REFRIGERATION

VARIABLE FREQUENCY DRIVE

VENT THROUGH ROOF

TOTALLY ENCLOSED FAN COOLED

SUPPLY

FEET PER MINUTE

FEET

FT/SEC FEET PER SECOND

GAUGE

GALV

GPM

GYP

GALLONS

GALVANIZED

GALLONS PER HOUR

GYPSUM BOARD

HORSEPOWER

INSIDE DIAMETER

KILOVOLT AMPERE

HOUR

HERTZ

INCHES

POUND

LEAVING

MAXIMUM

KILOWATT

GALLONS PER MINUTE

FURNISHED

FULL VOLTAGE NON-REVERSING

	AIR SIDE SYSTEM ABBREVIATIONS						
AC	AIR CONDITIONING	LAT	COIL LEAVING AIR TEMPERATURE				
ACD	AUTOMATIC CONTROL DAMPER	MA	MIXED AIR				
AF	AIR FOIL	MAT	MIXED AIR TEMPERATURE				
APD	AIR PRESSURE DROP	MAU	MAKE UP AIR				
AT	AIR TERMINAL	OA	OUTSIDE AIR				
AVS	AIR VOLUME TRAVERSE STATION	OAI	OUTSIDE AIR INTAKE				
BI	BACKWARD INCLINE	OBD	OPPOSED BLADE DAMPER				
BDD	BACKDRAFT DAMPER	OED	OPEN END DUCT				
CD	CEILING DIFFUSER (SUPPLY)	P.E.	PNEUMATIC - ELECTRIC				
CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR				
CV	CONSTANT VOLUME	RAT	RETURN AIR TEMPERATURE				
DL/ UC	DOOR LOUVER / UNDERCUT DOOR	RG	RETURN AIR GRILLE OR REGISTER				
DWDI	DOUBLE WIDTH DOUBLE INLET	RLF	RELIEF				
DWSI	DOUBLE WIDTH SINGLE INLET	RV	ROOF VENT				
EA	EXHAUST AIR	SA	SUPPLY AIR				
EAT	COIL ENTERING AIR OR EXHAUST AIR TEMP.	SAT	SUPPLY AIR TEMPERATURE				
EG	EXHAUST AIR GRILLE OR REGISTER	SI	DUCT WITH LINING OR SOUND INSULATION				
EP	ELECTRIC - PNEUMATIC	SP	STATIC PRESSURE				
ESP	EXTERNAL STATIC PRESSURE	SS	STAINLESS STEEL DUCT				
F&B	FACE AND BYPASS	SWDI	SINGLE WIDTH DOUBLE INLET				
FC	FOWARD CURVE OR FLEXIBLE CONNECTION	SWSI	SINGLE WIDTH SINGLE INLET				
FA	FREE AREA	TG	TRANSFER AIR GRILLE				
FPI	FINS PER INCH	TSP	TOTAL STATIC PRESSURE				
GE	GENERAL EXHAUST	VAV	VARIABLE AIR VOLUME				
HEGA	HIGH EFFICIENCY GAS ABSORBER AIR FILTE	R WMS	WIRE MESH SCREEN				
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER						

HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER		WIRE WESH SCREEN				
ПЕГА	HIGH EFFICIENCY PARTICULATE AIR FILTER						
	PLUMBING SYMBOL LEGEND						
G	— PIPING TURN DOWN OR DROP	#	WALL HYDRANT				
	PIPING TURN UP OR RISE	l —⊣⊩	— UNION				
	PIPING TEE DOWN OR DROP	<u> </u>	FLOW SWITCH				
<u> </u>	PIPING TEE UP OR RISE	4	PRESSURE SWITCH				
œ	P-TRAP	EJ	EXPANSION JOINT				
$ \bowtie$	— GATE VALVE		AUTOMATIC AIR VENT				
7	— CHECK VALVE	<u></u>	PRESSURE GAUGE WITH GAUGE COO				
—ю-	— BALL VALVE	4 — 4 □	VALVE ON PIPING RISE OR DROP				
— ⋈—	— MIXING VALVE		TRAP PRIMER				
—- <i>∞</i> -	BUTTERFLY VALVE	<u> </u>	THERMOMETER				
— >∞	— GLOBE VALVE	•	WATER HAMMER ARRESTOR				
 ₩-	PRESSURE REDUCING VALVE		DIRECTION OF FLOW				
	BACKFLOW PREVENTER		SLOPE & DIRECTION OF FALL				
─ ₩	— BALANCING VALVE	—⊳—	- REDUCER OR INCREASER				
—≌	— AUTOMATIC FLOW CONTROL VALVE	l +	POINT OF CONNECTION				
	TEMP. & PRESSURE RELIEF VALVE		POINT OF DEMARCATION				
	PRESSURE RELIEF VALVE	ø	DIAMETER				
——	MOTORIZED SHUT-OFF VALVE	≠	SQUARE FEET				
——奥	SOLENOID VALVE	(S)	DRAIN RECEPTOR				
	STRAINER	•	FLOOR DRAIN				
Ø	— FLOOR CLEAN OUT		AREA DRAIN				
I——	WALL CLEAN OUT		FLOOR SINK				
Ø	— EXTERIOR CLEAN OUT		ROOF DRAIN				
E	CAPPED PIPE / CLEAN OUT	●	SECONDARY ROOF DRAIN				
—— XXX —	— FLEXIBLE CONNECTION (PIPE)	(E)	EXISTING				
+	HOSE BIBB						

PIPING SYSTEM ABBREVIATIONS					
AV	AUTOMATIC AIR VENT	MBFV	MOTORIZED BUTTERFLY VALVE		
BBD	BOILER BLOW DOWN	NPSH	NET POSITIVE SUCTION HEAD		
BF	BOILER FEEDWATER	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE		
BFV	BUTTERFLY VALVE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED		
BV	BALL VALVE	OS&Y	OUTSIDE STEM AND YOKE		
CBST	COMBO. BALANCING/ SHUTOFF VALVE	PG	PRESSURE GAUGE		
	W/PRESS. TAPS	PRV	PRESSURE REDUCING VALVE		
CHV	CHECK VALVE	RED	REDUCER		
CO	CLEAN OUT	SOV	SHUT-OFF VALVE		
CV	FLOW COEFFICIENT OR CONTROL VALVE	SRV	SAFETY RELIEF VALVE		
DOV	DRAIN OFF VALVE	ST	STEAM TRAP		
DX	DIRECT EXPANSION	STR	STRAINER		
EWT	ENTERING WATER TEMPERATURE	SV	SOLENOID VALVE		
FC	FLEXIBLE CONNECTION	S(XXX)	SECONDARY (SYSTEM DEPENDENT PREF		
FCV	FLOW CONTROL VALVE	TAV	THERMOSTATIC AIR VENT (STEAM ONLY)		
FM	FLOW METER	TDH	TOTAL DYNAMIC HEAD		
GLV	GLOBE VALVE	TH	THERMOMETER		
GV	GATE VALVE	TW	TEST WELL (PETE'S PLUG)		
HD	HEAD	T(XXX)	TERTIARY (SYSTEM DEPENDENT PREFIX)		
ISV	ISOLATION VALVE	WPD	WATER PRESSURE DROP		
LWT	LEAVING WATER TEMPERATURE				
MAV	MANUAL AIR VENT				

CONNECTIONS ON SITE. COORDINATE WITH THE EQUIPMENT MANUFACTURER AND PROVIDE REQUIRED FITTINGS FOR THE CONNECTION. REFER TO AND FOLLOW MANUFACTURER'S RECOMMENDATION FOR INSTALLATIONS.

17. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THROUGH FIRE RATED ASSEMBLY/SEPARATIONS, INCLUDING BUT NOT LIMITED TO WHAT IS

20. PRIOR TO FINAL DEFICIENCY REVIEW, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED TO TEST AND VERIFY FINAL ROOM PRESSURIZATION, PROPER AIR FLOW BALANCING, COMMISSIONING AND PRESSURE MONITOR CALIBRATION. CONTRACTOR SHALL ENSURE ALL WALL

LENGTH OF THE CONSTRUCTION. THIS INCLUDE BUT NOT LIMITED TO, FIRE PROTECTION COVERAGE, HEATING AND VENTILATION.

PENETRATIONS ARE SEALED. INCLUDE FOR MINIMUM THREE(3) ADDITIONAL SITE VISITS FOR THE AIR & WATER BALANCER.

16. PROVIDE FIRE STOPPING FOR ALL PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLY/SEPARATIONS.

22. CONTRACTOR TO QUICK SHIP ALL LONG LEAD EQUIPMENT TO SUIT PROJECT COMPLETION TIMELINE.

SHOWN ON THE FLOOR PLAN DRAWING.

TO ENGINEER FOR RECORD PURPOSE.

GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. ALL ROUTING OF SERVICES ARE APPROXIMATE, AND CONTRACTOR IS RESPONSIBLE 14. CONTRACTOR SHALL COORDINATE WITH ALL NEW AND EXISTING MECHANICAL AND ELECTRICAL SERVICES WHEN MAKING THE EQUIPMENT

CONTRACTOR MUST PERFORM A SITE INSPECTION DURING THE TENDER PERIOD AND ENSURE THAT ALL WORK THAT IS VISIBLE IS INCLUDED AND 15. CONTRACTOR SHALL MODIFY SUPPORTS, PAINT AND FINISH TO SUIT CONDITION FOR ALL WORK DONE. RE-INSULATE AS REQUIRED.

(AS REQUIRED) EXISTING SERVICES ON WALL/CEILING. RE-INSTALLATION SHALL BE IN ACCORDANCE WITH THE EXISTING STANDARDS. COORDINATE WORK WITH OTHER TRADES. PRIOR TO START OF ANY RELOCATION WORK, IDENTIFY TO OWNER/CONSULTANT AND OBTAIN APPROVAL.

18. PROVIDE FIRE-STOPPING ON HOLES THAT RESULT FROM REMOVAL OF EXISTING SERVICES THROUGH A FIRE-RATED WALL OR FLOOR. FIRE-STOPPING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

4. AS A RESULT OF NEW WORK IN EXISTING AREA, REMOVE ALL ABANDONED SERVICES, DEVICES, AND EQUIPMENT, CUT BACK SERVICES TO SOURCE & 19. PROVIDE TEMPORARY LIFE SAFETY MECHANICAL SERVICES AS PER THE MUNICIPALITY REQUIREMENT WITHIN CONSTRUCTION ZONE FOR THE

6. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH LOCATION OF ALL EXISTING UTILITIES STUB-OUTS, PIPING, EQUIPMENT,
ETC., AND/OR ANY CONDITION THAT MAY AFFECT HIS WORK. ALL THE NECESSARY RE-ROUTING, RELOCATING AND/OR REMOVAL OF EXISTING PIPING, 21. ALL DUCTWORK IS TO BE CLEANED AFTER CONSTRUCTION IS COMPLETE TO REMOVE ANY DUCT AND/OR DEBRIS. PROVIDE DUCT CLEANING REPORT

ABV	ABOVE	HR	HOUR
A/C	ABOVE CEILING	HVAC	HEATING, VENTILATION, & AIR CONDITIO
ACFM	ACTUAL CUBIC FEET PER MINUTE	IE IE	INVERT ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT	ID ID	INSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	INV	INVERT
AFG	ABOVE FINISHED GRADE	IN. HG	INCHES MERCURY
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE		INCHES WATER COLUMN
AP	ACCESS PANEL	IVTR	INDUSTRIAL VENT THROUGH ROOF
ARCH	ARCHITECT OR ARCHITECTURAL	I/W	IN WALL
		"	KILOWATT
ASTM BFF	AMERICAN SOCIETY OF TESTING MATERIAL BELOW FINISHED FLOOR	LWVTR	LABORATORY WASTE VENT THROUGH R
	BUTTERFLY VALVE	LB	POUND
BFV		MAX	MAXIMUM
BHP B/G	BRAKE HORSEPOWER	MECH	
	BELOW GRADE		MECHANICAL
B/F	BELOW FLOOR	MH	MANHOLE
B/S	BELOW SLAB	MFR	MANUFACTURER
BP	REDUCED PRESSURE TYPE BACKFLOW	MIN	MINIMUM
	PREVENTER	NC 	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
BV	BALL VALVE	NPSH	NET POSITIVE SUCTION HEAD
°C	DEGREES CELSIUS	NTS	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CLG	CEILING	OFCI	OWNER FURNISHED CONTRACTOR INSTA
CONC	CONCRETE	PSIG	POUNDS PER SQUARE INCH GAUGE
CONN	CONNECT OR CONNECTION	PLBG	PLUMBING
CONT	CONTINUATION	POC	POINT OF CONNECTION
CONTR	CONTRACTOR	PRV	PRESSURE REDUCING VALVE
DEG	DEGREE	PVC	POLYVINYL CHLORIDE
DFU	DRAINAGE FIXTURE UNITS	P&TV	PRESSURE AND TEMPERTURE RELIEF VA
DN	DOWN	PV	PRESSURE RELIEF VALVE
DWG	DRAWING	QTY	QUANTITY
EA	EACH	RM	ROOM
ECO	EXTERIOR CLEAN OUT	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	SCFM	STANDARD CUBIC FEET PER MINUTE
ELECT	ELECTRICAL	SHT	SHEET
ELEV	ELEVATION	sov	SHUT OFF VALVE
EQUIP	EQUIPMENT	ST STL	STAINLESS STEEL
EXIST	EXISTING	SPEC	SPECIFICATION
' F	DEGREES FAHRENHEIT	STRUCT	STRUCTURAL
FCO	FLOOR CLEAN OUT	TEMP	TEMPERATURE
FFE	FINISH FLOOR ELEVATION	TYP	TYPICAL
FLR	FLOOR	UNO	UNLESS NOTED OTHERWISE
FT	FEET	UV	ULTRA VIOLET
FU	FIXTURE UNITS	VFD	VARIABLE FREQUENCY DRIVE
GAL	GALLONS	VOL	VOLUME
GALV	GALVANIZED	VTR	VENT THROUGH ROOF
GLV	GLOBE VALVE	V/PH/HZ	VOLTS/PHASE/HERTZ
GPF	GALLONS PER FLUSH	WCO	WALL CLEAN OUT
GPH	GALLONS PER HOUR	W/	WITH
GPM	GALLONS PER MINUTE	WHA	WATER HAMMER ARRESTOR (P.D.I. SIZ
GV	GATE VALVE	WSFU	WATER SUPPLY FIXTURE UNITS
HD	HEADER	WT	WEIGHT
HDR	HEADER	YB	YARD BOX
HP	HORSEPOWER	I	

TAGS AND CALL OUT SYMBOLS							
# QUIP	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	#	REVISION CALLOUT KEYNOTE CALLOUT				
EQUIP #	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS. SECTION CALLOUT	•	POINT OF CONNECTION POINT OF DEMARCATION				
1 M3.1	SECTION DESIGNATION SHEET NUMBER						
M3.1	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER						

	DEMOLITION								
< C >	CAP EXISTING	+++++	DEMOLITION PIPING						
< X >	EXISTING TO REMAIN	<i>9</i> 444,	DEMOLITION EQUIPMENT OR DUCT						
< R >	EXISTING TO BE REMOVED								
< NL >	EXISTING - NEW LOCATION								

	PIPING LEGEND					PLUMBING PIPIN	IG LEGEI	ND
—CHWS—	CHILLED WATER SUPPLY		PIPE ANCHOR			COLD WATER	—-іw—	INDUSTRIAL WASTE ABOVE FLOOR (
CHWR	CHILLED WATER RETURN		PIPE GUIDE		— CA —	COMPRESSED AIR COMPRESSED AIR INTAKE		GROUND INDUSTRIAL WASTE BELOW FLOOR
СТВО—	COOLING TOWER BLOW DOWN	EJ—	EXPANSION JOINT		cww	CLEAR WATER WASTE ABOVE FLOOR	,,,	OR GROUND
		SLOPE	PIPE SLOPE (REFER TO PLANS FOR			OR GROUND	—кw—	KITCHEN WASTE ABOVE FLOOR/GRO
—CTWS—	COOLING TOWER WATER SUPPLY		SLOPE)		cww	CLEAR WATER WASTE BELOW FLOOR	—кw—	KITCHEN WASTE BELOW FLOOR/GRO
CTWR	COOLING TOWER WATER RETURN		AUTOMATIC AIR VENT			OR GROUND	—_LPG—_	LIQUID PETROLEUM GAS
—cws—	CONDENSER WATER SUPPLY	≱ —	ANGLE VALVE - ELEVATION		cwv	CLEAR WATER WASTE VENT	G	NATURAL GAS
	CONDENSER WATER SUPPLY	4	ANGLE VALVE - ELEVATION		— DI —	DEIONIZED WATER SUPPLY	— нс —	NATURAL GAS - HIGH PRESSURE
CWR	CONDENSER WATER RETURN	—≪—	ANGLE VALVE - PLAN		— DIR —	DEIONIZED WATER RETURN	— мG —	NATURAL GAS - MEDIUM PRESSURE
—GWS—	GEOTHERMAL WATER SUPPLY	 	BALL VALVE		GW—	GRAY WATER ABOVE FLOOR OR GROUND		PUMP DISHARGE
	GEOTHERWINE WITERCOST ET		Brief Wieve		GW	GRAY WATER BELOW FLOOR OR GROUND		RECLAIMED WATER
GWR	GEOTHERMAL WATER RETURN	—ф—	BALL VALVE W/ MEMORY STOP		— HW —	HOT WATER HOT WATER (140°F)	— RO — — ROR—	REVERSE OSMOSIS WATER REVERSE OSMOSIS WATER RETURN
——GS——	GLYCOL SUPPLY	— ø⊢—	BUTTERFLY VALVE		—HW140— —HWR140—	HOT WATER (140 F)		SANITARY SEWER ABOVE FLOOR/GRO
0.0	OLYGOL BETURN	, E,	BUTTERE VALVE WAS MEMORY OF OR		— HW160 —	HOT WATER (160°F)		SANITARY SEWER BELOW FLOOR/GRO
GR	GLYCOL RETURN	&	BUTTERFLY VALVE W/ MEMORY STOP		—HWR160—	HOT WATER RETURN (160°F)	v	SANITARY SEWER VENT
—HWS—	HEATING HOT WATER SUPPLY	—⊮—	MOTORIZED BUTTERFLY VALVE		——HWR—	HOT WATER RETURN	— SD —	STORM DRAIN ABOVE FLOOR/GROUI
—HWR—	HEATING HOT WATER RETURN	_₩	PRESSURE INDEPENDENT CONTROL		scw	SOFT COLD WATER	— SD —	STORM DRAIN BELOW FLOOR/GROU
			VALVE		—	SOFT HOT WATER	—SSD—	SECONDARY STORM DRAIN ABOVE
—HPWS—	HEAT PUMP WATER SUPPLY	—⋈—	CIRCUIT BALANCING/ SHUTOFF VALVE		—SHWR—	SOFT HOT WATER RETURN		FLOOR OR GROUND
HPWR	HEAT PUMP WATER RETURN		CONTROL VALVE - 2 WAY		—_FOR—	FUEL OIL RETURN	——SSD——	SECONDARY STORM DRAIN BELOW
—HCS—	HOT OR COLD WATER SUPPLY (DUAL	 	CONTROL VALVE - 3 WAY		— F0 —	FUEL OIL SUPPLY		FLOOR OR GROUND
	TEMP) HOT OR COLD WATER RETURN (DUAL				— ICW —	INDUSTRIAL NONPOTABLE COLD WATER INDUSTRIAL NONPOTABLE HOT WATER	——SUB—— —— TP ——	SUBSURFACE STORM DRAIN TRAP PRIMER
HCR	TEMP)		CHECK VALVE			INDUSTRIAL NONPOTABLE HOT WATER	тw	TEMPERED WATER
—HTWS—	HIGH TEMPERATURE WATER SUPPLY	 0 ≯	DRAIN OFF VALVE (BALL VALVE W/ HOSE BIBB, CAP, & CHAIN)		*****	WATER RETURN	TWR	TEMPERED WATER RETURN
HTWR	HIGH TEMPERATURE WATER RETURN	₩	FLOAT OPERATED VALVE		iscw	INDUSTRIAL NONPOTABLE SOFT		VACUUM
						COLD WATER	——VEX——	VACUUM EXHAUST
—MTWS—	MEDIUM TEMPERATURE WATER SUPPLY	—≌—	FLOW CONTROL VALVE		——ISHW——	INDUSTRIAL NONPOTABLE SOFT	— wo —	WASTE OIL
MTWR	MEDIUM TEMPERATURE WATER RETURN	ı <u>(F</u> W)	FLOW METER			HOT WATER	wov	WASTE OIL VENT
MUW	MAKE UP WATER	_⇔	FLOW METER - VENTURI		ISHWR	INDUSTRIAL NONPOTABLE SOFT	11/1//	DEMOLITION PIPING
	PROCESS CHILLED WATER SUPPLY				IV	HOT WATER RETURN INDUSTRIAL VENT	<i>144</i> ,	DEMOLITION EQUIPMENT
—PCHWS—	PROCESS CHILLED WATER SUPPLY		FLOW SWITCH					
—PCHWR—	PROCESS CHILLED WATER RETURN		GATE VALVE			AIR SYSTE	M LEG	END
RD	REFRIGERANT DISCHARGE	─ ₩	GLOBE VALVE			RECTANGULAR SUPPLY/ OUTSIDE AIR	→	SPACE PRESSURIZATION ARROW
RL	REFRIGERANT LIQUID	————	ISOLATION VALVE		4	DUCT UP RECTANGULAR SUPPLY/ OUTSIDE AIR	CFM DL/ UC -	DOOR LOUVER / UNDERCUT DOOR
—RG—	REFRIGERANT GAS	<u></u>	MANUAL AIR VENT			DUCT DOWN RECTANGULAR RETURN/ RELIEF AIR	55,00	
—_LPS—_	LOW PRESSURE STEAM	—₩—	PRESSURE REDUCING VALVE		7 1	DUCT UP RECTANGULAR RETURN/ RELIEF		SUPPLY AIRFLOW ARROW
1			1	1	-			

	RECTANGULAR SUPPLY/ OUTSIDE AIR	M LEGI →	SPACE PRESSURIZATION ARROW
	DUCT UP RECTANGULAR SUPPLY/ OUTSIDE AIR	CFM	SEAGE FRESSURIZATION ARROW
7	DUCT DOWN	DL/ UC —	DOOR LOUVER / UNDERCUT DOOR
	RECTANGULAR RETURN/ RELIEF AIR DUCT UP	-	SUPPLY AIRFLOW ARROW
	RECTANGULAR RETURN/ RELIEF AIR DUCT DOWN		RETURN OR EXHAUST AIRFLOW ARROW
	RECTANGULAR EXHAUST AIR DUCT		AIR VOLUME TRAVERSE STATION
	RECTANGULAR EXHAUST AIR DUCT DOWN	\boxtimes	CEILING DIFFUSER (SUPPLY)
	ROUND SUPPLY/ OUTSIDE AIR DUCT UP		RETURN AIR GRILLE OR REGISTER
≠ □⊗	ROUND SUPPLY/ OUTSIDE AIR DUCT DOWN		EXHAUST AIR GRILLE OR REGISTER
	ROUND RETURN/ RELIEF AIR DUCT UP	^	DIFFUSER WITH FLOW DIRECTION. NO FLOW ARROWS
	ROUND RETURN/ RELIEF AIR DUCT DOWN	₩	INDICATES STANDARD 4-WAY PATTERN.
	ROUND EXHAUST AIR DUCT UP		SIDE WALL GRILLE
	ROUND EXHAUST AIR DUCT DOWN	$\bigoplus \overline{X}$	HUMIDITY SENSOR OR HUMIDISTAT AND NUMBER
	DUCT WITH LINING OR SOUND INSULATION	<u> S</u> <u>x</u>	SENSOR AND NUMBER
	STAINLESS STEEL DUCT	§₩ <u>×</u>	SWITCH AND NUMBER
7	PVC COATED DUCT	⊕x	TEMPERATURE SENSOR OR THERMOSTAT & ZONE NUMBER
7	DOUBLE WALL DUCT	ΣX	TEMPERATURE SENSOR OR THERMOSTA' W/ VANDAL GUARD & ZONE NUMBER
ACD	AUTOMATIC CONTROL DAMPER FOR ROUND AND RECTANGULAR DUCT	$\bigvee \!$	REMOTE DAMPER OPERATOR
BDD	BACKDRAFT DAMPER FOR ROUND AND RECTANGULAR DUCT	(DP)	DIFFERENTIAL PRESSURE SENSOR
† III	FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT	(SD)	DUCT SMOKE DETECTOR
† III †	SMOKE DAMPER FOR ROUND AND RECTANGULAR DUCT	SP	STATIC PRESSURE SENSOR
SFD	COMBINATION SMOKE/FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT		CARBON MONOXIDE SENSOR
SGD	SLIDE GATE DAMPER FOR ROUND AND RECTANGULAR DUCT	<u></u>	CARBON DIOXIDE SENSOR
VD	MANUAL VOLUME DAMPER FOR ROUND AND RECTANGULAR DUCT	-	
- 11 -	FLEXIBLE CONNECTION		
1	REHEAT COIL		
1			

SCALE

N.T.S.

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ISS	SUES	
NO.	DESCRIPTION	DATE
1	SSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 2023
2	SSUED FOR 50% CLIENT REVIEW	13 OCT. 2023
3	SSUED FOR BUILDING PERMIT	01 NOV. 2023
4	SSUED FOR 90% CLIENT REVIEW	10 NOV. 2023
5	SSUED FOR TENDER	05 JUL. 2024
RE	VISIONS	

 BUILDINGS EARTH & ENVIRONMENT ENERGY • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

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DRAWING LIST MECHANICAL LEGEND, GENERAL NOTES & DRAWING LIST KT ML MRK-23007421-A0

N.T.S.

SITE PLAN ANIMAL FACILITY

—_LPR—_

——HPR——

——PC——

——HPS—— HIGH PRESSURE STEAM

DOUBLE LINE PIPE RISE

SINGLE LINE PIPE RISE

DOUBLE LINE PIPE DROP

PIPE TEE OFF THE TOP

PIPE TEE OFF THE BOTTOM

PIPE BREAK

DIRT LEG

CLEAN OUT

DIRECTION OF FLOW

REDUCER - CONCENTRIC

REDUCER - ECCENTRIC

FLEXIBLE CONNECTION

BLIND FLANGE

■ END CAP

 \longrightarrow

PIPE TEE OFF THE SIDE

SINGLE LINE PIPE DROP

LOW PRESSURE CONDENSATE RETURN

HIGH PRESSURE CONDENSATE RETURN

PUMPED STEAM CONDENSATE

PRESSURE SUSTAINING VALVE

PRESSURE GAUGE W/ COIL SIPHON

PUMP (TRIANGLE INDICATES FLOW DIRECTION)

PRESSURE GAUGE

QUICK CLOSING VALVE, FUSIBLE LINK

SAFETY RELIEF VALVE

STRAINER W/ DRAIN VALVE, HOSE BIBB & CAP (USE GATE VALVE FOR STEAM)

VALVE, HOSE BIBB, & CAP

TEST WELL (PETE'S PLUG)

THERMOSTATIC AIR VENT (STEAM ONL)

MECHANICAL DRAWING LIST

DESCRIPTION

MECHANICAL DRAWING LIST, SYMBOL, LEGEND, NOTES

MAIN FLOOR - DEMOLITION AND NEW HVAC LAYOUT

SECOND FLOOR - DEMOLITION AND NEW MECHANICAL LAYOUT

NEW SITE PLAN - NATURAL GAS

MECHANICAL SCHEDULES

MECHANICAL DETAILS

MECHANICAL SPECIFICATIONS 1

MECHANICAL SPECIFICATIONS 2

STRAINER - BASKET TYPE W/ DRAIN
VALVE HOSE BIRD * CAS

STEAM TRAP

THERMOMETER

VACUUM BREAKER

DWG. NO.

M001

M100

M401

UNION

SOLENOID VALVE

QUICK OPENING VALVE

8 STRAINER - DUPLEX

STRAINER

—⊗—

—|⊢— |

,	CONTRACT	OR IS RESPONSIBLE FOR ANY DAMAGES CAUSED TO BUILDING COMPONENTS DUE TO WORK OPERATIONS PATCH AND REPAIR EXISTING DAMAGED AS REQUIRED TO MATCH ADJACENT SURFACES.	23.	FOR ALL OWNER SUPPLIED EQUIPMENT, CONTRACTOR SHALL REVIEW AND PROVIDE ALL ADDITIONAL ACCESSORIES, INSTALLATION, ETC. IN ORDER TO PROVIDE FULL INSTALLATION AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE WARRANTY FOR THE INSTALLATION AND EQUIPMENT.
8	SURVEY PE MANDATOR CONDITION	N DRAWINGS INDICATE VISIBLE/KNOWN DEVICES AND/OR SERVICES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILED SITE RIOR TO SUBMITTING THE BID, AND SHALL INCLUDE FOR ALL COSTS ASSOCIATED WITH DEMOLITION SCOPE OF WORK IN THE BID PRICE. BY SITE WALKTHROUGHS SHALL BE ARRANGED BY THE CONSULTANT TO ALLOW CONTRACTORS TO INVESTIGATE AND RECORD EXISTING IS PRIOR TO SUBMITTING THE BID. OR SHALL BE RESPONSIBLE FOR:	24.	NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.
	8.1. REVIE	W OF EXISTING MECHANICAL SERVICES PRESENTLY SERVING EXISTING AREAS AS AFFECTED BY THE PROPOSED SCOPE OF WORK. IT		
	SHALL	BE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL EXISTING EQUIPMENT, DEVICES, AND SERVICES WHICH ARE TO		
	REMA	IN AND WHICH ARE PRESENTLY FED FROM THE AREAS WHICH ARE DESIGNATED TO BE DELETED. MECHANICAL CONTRACTOR SHALL BE		
	RESP	ONSIBLE FOR REINSTALLATION AND RECONNECTION OF ALL SUCH SERVICES TO MATCH EXISTING STANDARDS. CONTRACTOR SHALL		
	INCLU	DE ALL COSTS FOR SITE INVESTIGATION TO SOURCE DELETE SERVICES REQUIRED FOR RE-CONNECTION OF EXISTING SERVICES THAT		
	MUST	REMAIN. INCLUDE IN YOUR BID ALL COSTS ASSOCIATED WITH SITE INVESTIGATION, ETC, AND ALL REQUIRED COSTS FOR THIS WORK.		
	REVIE	W AND NOTE EXISTING CONDITIONS AND CONFIRM EXACT SITE CONDITIONS.		
	8.2. RECO	RDING OF ANY EXISTING SERVICES, DEVICES, ETC, WHICH MAY BE REQUIRED TO BE RETAINED AND/OR RELOCATED TO SUIT NEW WORK;		
	8.3. ENSU	RING THAT ALL TRADES BEARING UPON THE SCOPE OF WORK OF THIS PROJECT PERFORM DETAILED SITE INVESTIGATIONS REGARDING		
	DEMO	LITION AND NEW SCOPE OF WORK PRIOR TO SUBMISSION OF THE BID.		

FOR COORDINATION WITH OTHER DISCIPLINES AND PERFORMING SITE SURVEY FOR EXACT ROUTING OF SERVICES PRIOR TO SUBMITTING BID.

CONSIDERED UNDER SCOPE OF WORK OF THIS PROJECT. ALL EXISTING DEVICES AND SERVICES THAT PASS THROUGH THE AREAS OF WORK ARE TO

2. PRIOR TO SUBMITTING THE BID, CONTRACTOR SHALL CAREFULLY REVIEW THE EXISTING SITE CONDITIONS AND THE SCOPE OF WORK. THE

BE MAINTAINED WITHOUT INTERRUPTION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK WITH OTHER TRADES, CONSULTANT, AND THE OWNER. CONTRACTOR SHALL PROVIDE TEMPORARY COOLING OR HEATING TO THE AFFECTED AREA DURING THE

3. WHERE WORK INVOLVES INTERRUPTION TO EXISTING SERVICES, INCLUDE FOR ALL COST TO TEMPORARILY OR PERMANENTLY RELOCATE/RE-ROUTE

MAKE SAFE. INCLUDE FOR REMOVAL AND RE-INSTALLATION OF EXISTING DEVICES & EQUIPMENT AS REQUIRED. INCLUDE FOR ANY CUTTING &

EQUIPMENT, ETC., SHALL BE INCLUDED IN THE SCOPE OF WORK. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF

5. FOR ALL DELETED EXISTING EQUIPMENT AND MATERIALS, COORDINATE WITH OWNER IF THEY WISH TO KEEP SOME FOR SPARE.

7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PROPERTY IN AREAS WHERE WORK IS BEING CONDUCTED. THE

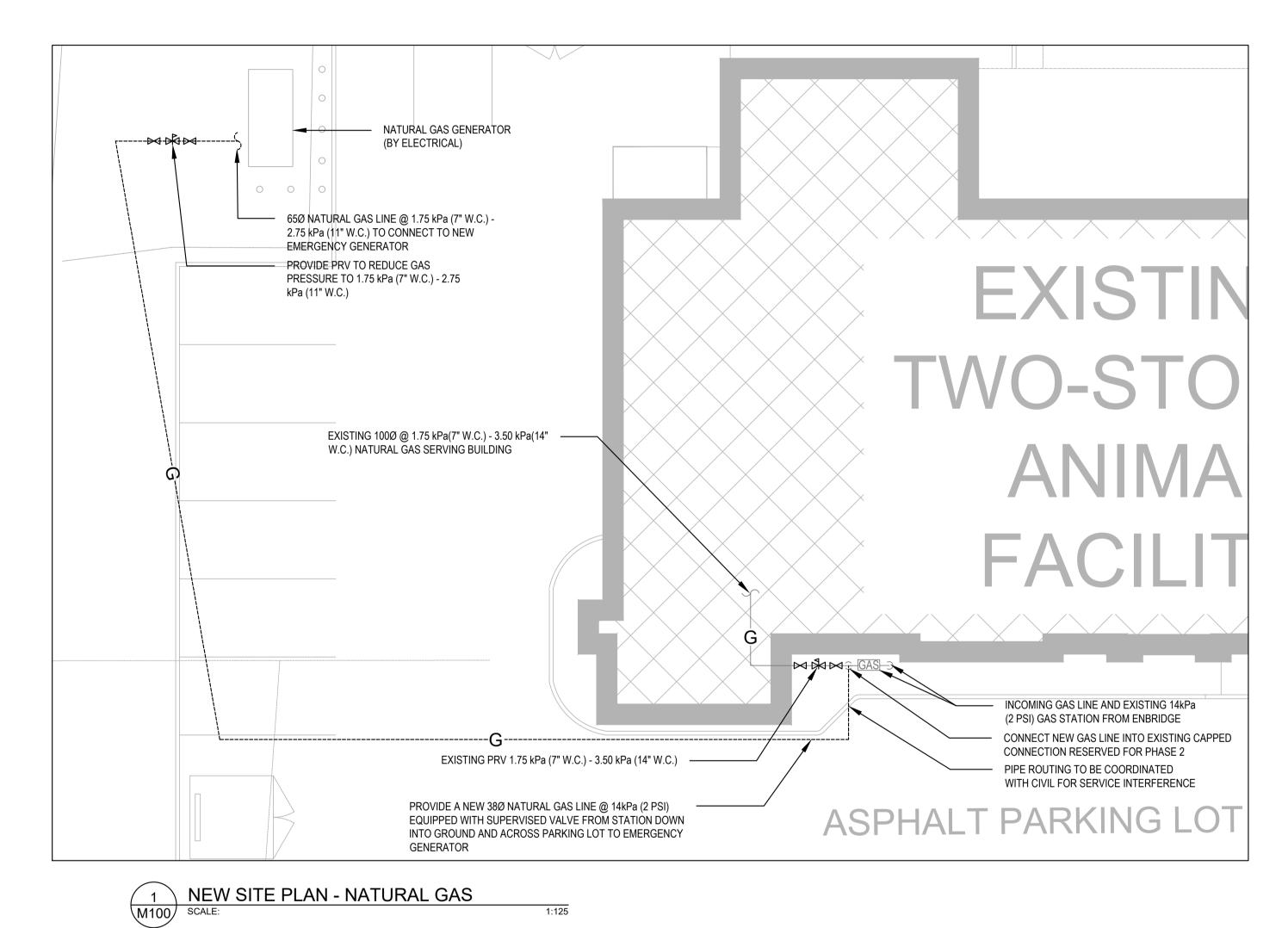
- 9. ALL 90° MITERED DUCT ELBOW SHOWING IN PLAN DRAWINGS SHALL BE C/W TURNING VANE..

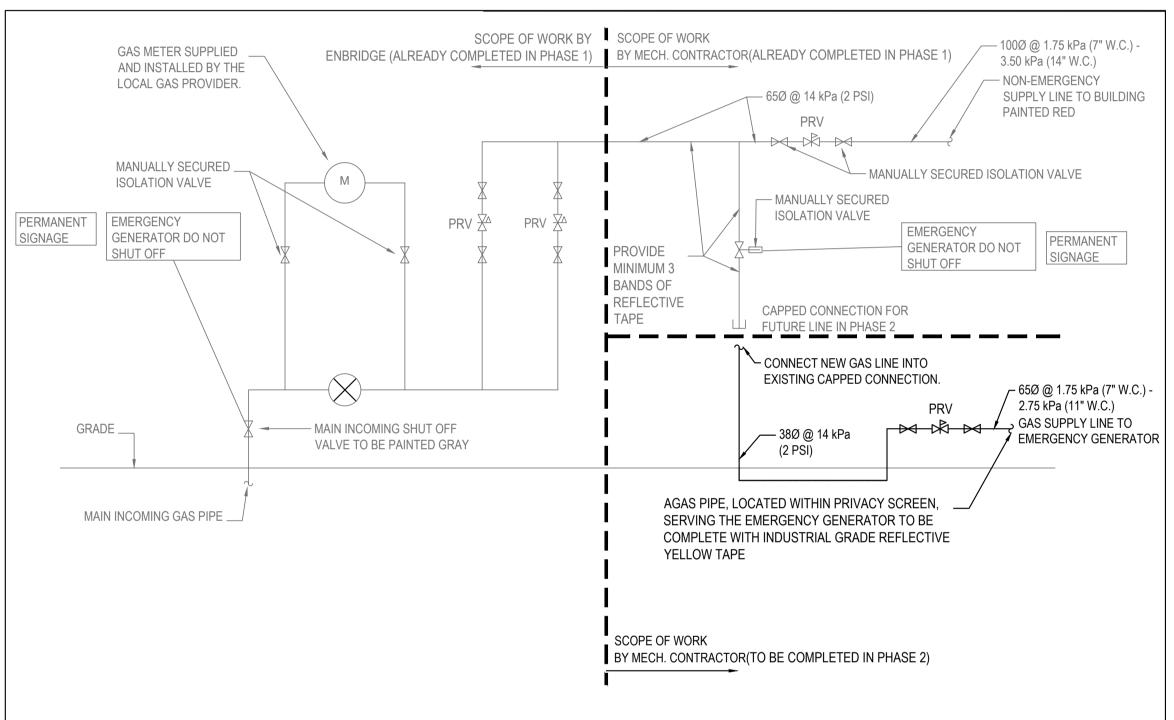
PATCHING OF EXISTING SERVICES AS REQUIRED TO REMOVE ABANDONED SERVICES.

THE OBLIGATIONS AND RESPONSIBILITIES ASSUMED UNDER THIS CONTRACT.

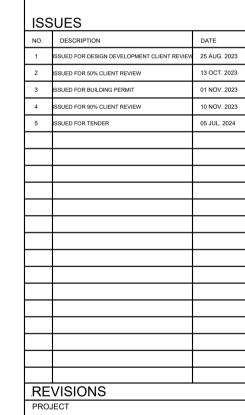
- 10. CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWING PRIOR TO CONSTRUCTION AND COORDINATE THE EXISTING CONDITION WITH NEW DESIGN. 11. CONTRACTOR SHALL INCLUDE FOR ALL CUTTING AND PATCHING FOR THE INSTALLATION OF HIS WORK. EMPLOY THE SERVICES OF THE GENERAL
- 12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONSTRUCTION PHASING AND HOARDING PLAN. RECOMMENDED CONSTRUCTION PHASING AND HOARDING PLAN PRESENTED ON THE ARCHITECTURAL DRAWING IS FOR RECOMMENDATION PURPOSES ONLY.
- 13. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE ANIMAL SERVICES CENTER THE DATE AND PERIOD OF TIME REQUIRED FOR DISCONNECTING AND MAKING NEW CONNECTIONS IN ORDER TO KEEP THE INTERRUPTIONS OF THE ANIMAL SERVICES CENTER DAILY OPERATIONS AS MINIMAL AS POSSIBLE. CONTRACTOR TO INCLUDE FOR ALL TEMPORARY FREEZING/HOT TAPPING WHEN MAKING CONNECTION TO EXISTING MAIN. APPROPRIATE METHODS TO BE DETERMINED BY THE CONTRACTOR.







NEW SITE PLAN - NATURAL GAS SCHEMATIC
N.T.S





ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4

Mississaa	ga, 011 200 1111
ARCHITECTS 220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M38 J.35 TEL. 416 367 8977 FAX. 416 367 9655	The contractor shall check and welfy all dimensions and report a more analysis of the shall be a sh
www.ngaa.com	ISSUED FOR CONSTRUCTION DA
PROJECT NORTH	STRUCTURAL CONSULTANT
	EXP SERVICES IN
	MECHANICAL CONSULTANT EXP SERVICES IN
	ELECTRICAL CONSULTANT EXP SERVICES IN
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NEW SITE PLAN - NATURAL GAS

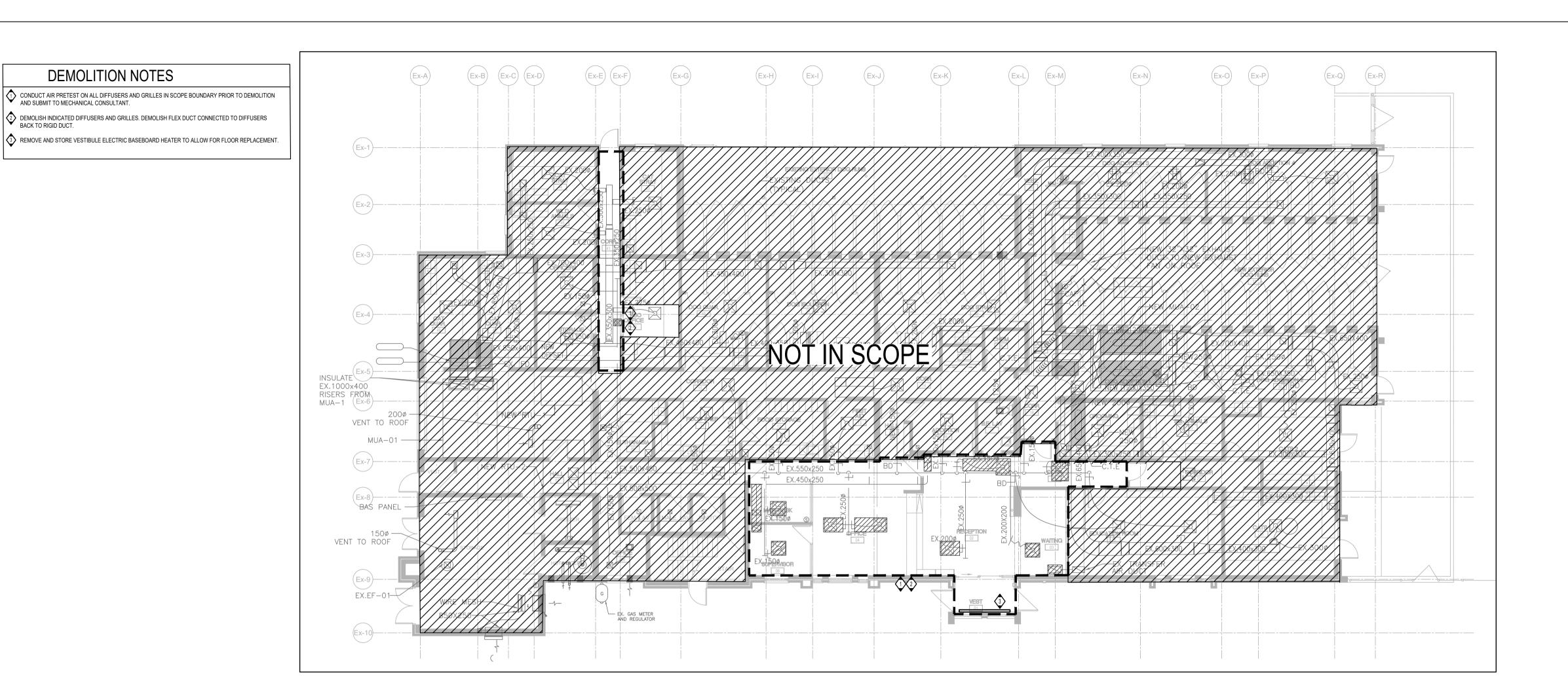
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MRK-23007421-A0

SCALE

1:125



CONSTRUCTION NOTES

install new diffuser/grille and provide new flex duct connections as shown.

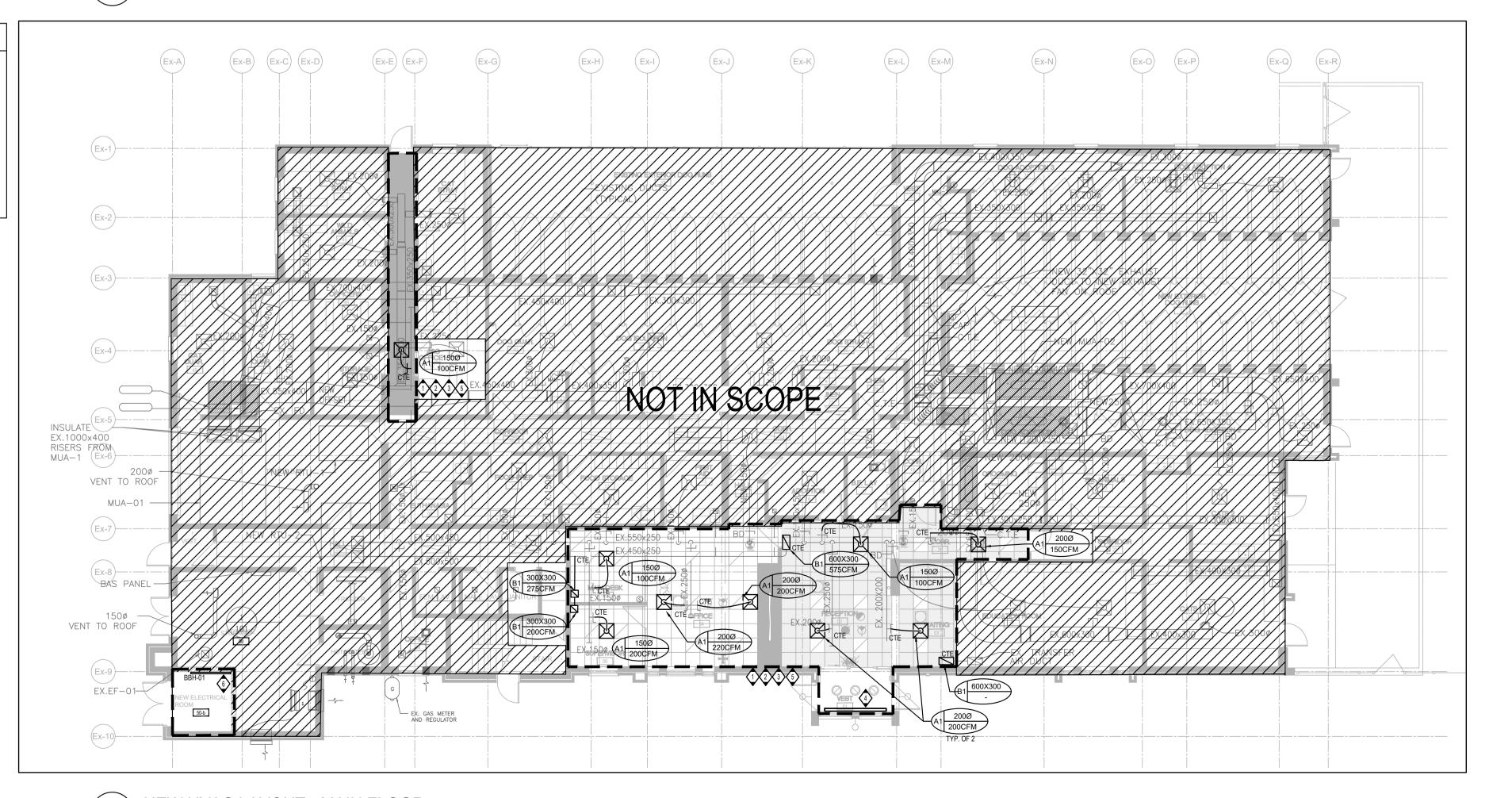
Modify existing duct connections as required for proper installation.

REBALANCE DAMPERS TO MEET PREDEMOLITION AIR FLOW CONDITIONS

REINSTATE VESTIBULE ELECTRIC BASEBOARD HEATER AFTER FLOOR REPLACEMENT IS COMPLETE. RECONNECT BACK INTO EXISTING CONTROLS.

PERFORM DUCTWORK CLEANING IN SCOPE OF WORK AREA AFTER CONSTRUCTION. PROVIDE DUCT CLEANING REPORT TO ENGINEER UPON COMPLETION

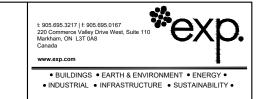
install new electric baseboard heater at low level C/W all accessories and supports as required.



NEW HVAC LAYOUT - MAIN FLOOR

M200 SCALE: 1:125

DEMO HVAC LAYOUT - MAIN FLOOR



NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG
2	ISSUED FOR 50% CLIENT REVIEW	13 OC
3	ISSUED FOR BUILDING PERMIT	01 NO\
4	ISSUED FOR 90% CLIENT REVIEW	10 NO\
5	ISSUED FOR TENDER	05 JUL



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



DRAWING LIST

MAIN FLOOR - DEMOLITION AND NEW
HVAC LAYOUT

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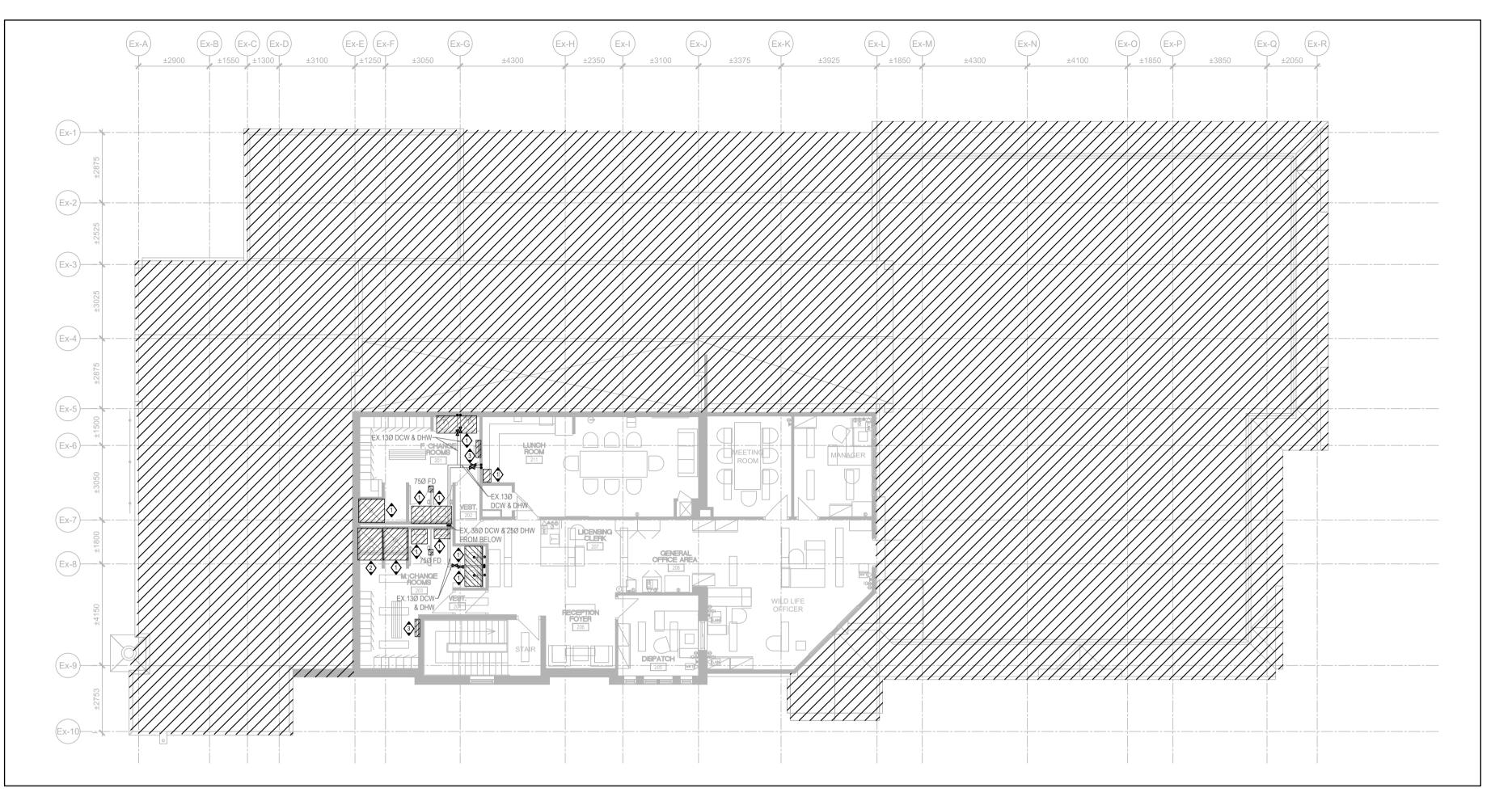
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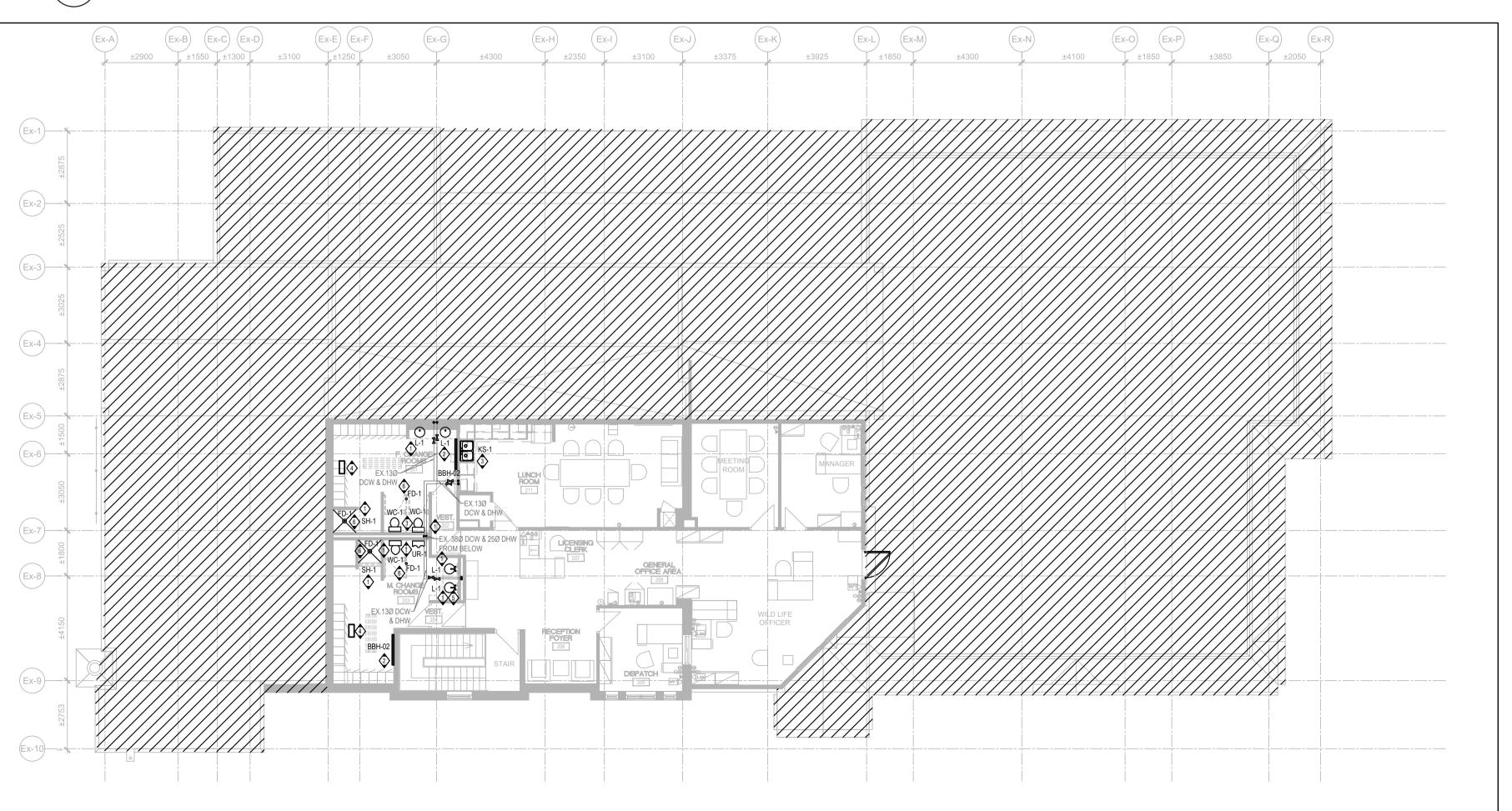
- (1) EXISTING PLUMBING FIXTURE TO BE DISCONNECTED AND REMOVED. CUT BACK EXISTING SANITARY AND/OR DOMESTIC WATER CONNECTIONS AND PREPARE FOR NEW CONNECTIONS TO NEW PLUMBING FIXTURE. ALLOW FOR WALL/FLOOR CHIPPING REPAIR AND MAKE GOOD FINISH WHEN COMPLETED. REFER TO DRAWING 2-M201 FOR CONTINUATION.
- 2 EXISTING SHOWER TO BE REMOVED AND EXISTING SANITARY AND DOMESTIC WATER CONNECTIONS TO BE CUT BACK AND CAPPED BEHIND THE WALL. ALLOW FOR ALL PATCH WORK AND REPAIR AS
- REMOVE EXISTING ELECTRIC BASEBOARD HEATER TO ALLOW FOR FLOOR REPLACEMENT.



DEMO MECHANICAL LAYOUT - SECOND FLOOR

CONSTRUCTION NOTES

- WATER CONNECTIONS. CONTRACTOR TO COORDINATE INSTALLATION AND ALLOW FOR PIPE MODIFICATION IF REQUIRED. REPORT BACK TO MECHANICAL ENGINEER FOR ANY SITE DISCREPANCIES.
- PROVIDE NEW ELECTRIC BASEBOARD HEATER C/W CONTROL WIRING AND SUPPORTS.
- PROVIDE NEW SINK FIXTURE IN LUNCHROOM AND RECONNECT EXISTING DOMESTIC WATER AND SANITARY CONNECTIONS. PROVIDE NEW ROUGHIN 15MM DCW CONNECTION FOR FUTURE DISHWASHER AND SAN DRAIN BACK TO SINK. REFER TO DETAIL 5 ON DRAWING M-301. COORDINATE WITH MILLWORK FOR SINK OPENING.
- PROVIDE NEW FLOOR COVER FOR EXISTING LOUVRE OPENING. COORDINATE FINISH WITH ARCHITECT.
- contractor to check condition of existing trap seal primer and report back to engineer. Allow for provision of New Electric trap seal primer if required.
- PROVIDE NEW FLOOR DRAIN AT RAISED ELEVATION TO MATCH NEW FINAL FLOOR HEIGHT. ALLOW FOR ANY MODIFICATIONS REQUIRED TO RECONNECT TO EXISITING SANITARY DRAINAGE PIPE.



NEW MECHANICAL LAYOUT - SECOND FLOOR



05 JUL. 2024 REVISIONS



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



EXP SERVICES INC EXP SERVICES INC. EXP SERVICES INC.

DRAWING LIST SECOND FLOOR - DEMOLITION AND NEW MECHANICAL LAYOUT

KT ML MRK-23007421-A0 1:125

DIFFUSER & GRILLE SCHEDULE									
REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE	NECK SIZE (mm)	DAMPER	REMARKS		
A1	E.H. PRICE	SCD	SQUARE CONE SUPPLY AIR DIFFUSER	600 x 600	SHOWN ON PLAN	Υ	CEILING MOUNTED, TO BE COMPATIBLE WITH T-BAR CEILING		
B1	E.H. PRICE	80	EGGCRATE RETURN	SHOWN ON PLAN	-	-	CEILING MOUNTED (DUCT MOUNTED AS REQUIRED, SEE FLOOR PLANS)		
NOTEO									

NOTES:
- GRILLE / DIFFUSER AND LOUVER TO BE PAINTED AS PER ARCHITECTURAL REQUIREMENT. FINISH TO BE CLAR
- PROVIDE VOLUME DAMPER FOR RETURN GRILLE DUCTED BACK TO THE UNIT.
- REFER TO FLOOR PLANS FOR EXACT QUANTITIES

JSER & GRILLI	SCHEDU	ILE					ELE	ECTRIC BASEBOAR	D HEATER	SCHEDU	LE				
ZE NECK SIZE (mm)	DAMPER	REMARKS	REFERENCE TAG	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	HEATING CAPACITY (KW)		EMERGENCY POWER (Y/N)	LENGTH (MM)	DIMENSION WIDTH (MM)	S HEIGHT (MM)	WEIGHT (KG)	REMARKS
SHOWN ON PLAN	Y	CEILING MOUNTED, TO BE COMPATIBLE WITH T-BAR CEILING	BBH-01	ELECTRICAL ROOM	HEATING	OUELLET	OFM1508	1.5	208/1/60	N	1668	62	148	5.5	C/W BUILT-IN THERMOSTAT.
ON _		CEILING MOUNTED (DUCT MOUNTED AS REQUIRED, SEE FLOOR PLANS)	BBH-02	MALE/FEMALE CHNAGEROOMS	HEATING	OUELLET	OFM1002	1	120/1/60	N	1200	62	148	4	C/W BUILT-IN THERMOSTAT.
E CLARIFIED PRIOR TO	ORDERING														
LIMBING FIXT	LIRE SCH	EDIJI E													

PLUMBING FIXTURE SCHEDULE								
YMBOL	FIXTURE TYPE	DESCRIPTION	REMARKS	OWNFR	SUPPLIED I	BY OTHERS		
<u>WC-1</u>	WATER CLOSET	SEAT: CENTOCO - 440STSFE-001 - FAST-N-LOCK, FOR ROUND BOWL, CLOSED FRONT, HEAVY-DUTY, FOR COMMERICAL APPLICATIONS, POLYPROPYLENE, TOILET SEAT WITH SEAT COVER, WHITE FINISH, PLASTIC COMMERICAL CHECK HINGES, AND STAINLESS STEEL HINGE PIN. SUPPLY: MCGUIRE LFBV172 - LEAD FREE, SHALL BE CONSTRUCTED FROM POLISHED BRASS W/ CHROME-PLATED FINISH. 12MM I.P.S. INLET, 10MM O.D OUTLET.	CONTRACTOR TO VISIT SITE PRIOR TO ISSUING SHOP DRAWINGS TO ENSURE THE SELECTED PLUMBING FIXTURE DIMENSIONS MATCH	OWNER	•	OTTLINE		
		TOILET: AMERICAN STANDARD - 215DA104.020 - TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, HIGH EFFICIENCY HET 4.8 LPF (1.28 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN® ANTIMICROBIAL SURFACE, ROUND FRONT BOWL, MINIMUM 305 MM (12") ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, SIPHON JET FLUSH ACTION, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381231-200.0020A), TANK NOT LINED, WITHOUT TANK COVER LOCKING DEVICE, GRAVITY-ASSISTED FLUSH, CADET® FLUSHING SYSTEM, 76 MM (3") FLUSH VALVE, METAL SHANK FILL VALVE, TANK COUPLING COMPONENTS, FULLY-GLAZED 54 MM (2-1/8") TRAPWAY, POWERWASH™ RIM SCRUBS BOWL WITH PRESSURIZED WATER EVERY FLUSH, INCLUDES EZ-INSTALL TOOLS, TRADE EXCLUSIVE TANK. TOILET SEAT NOT INCLUDED, COLOUR-MATCHED BOLT CAPS, CONSISTING OF: 3517D101 BOWL, 4188A104 TANK TANK.	EXISTING FIXTURES (DRAIN LOCATION ETC).					
		ASME A112.19.2 COMPLIANT, CSA B45.1 COMPLIANT, EPA WATERSENSE® COMPLIANT						
<u>UR-1</u>	URINAL	FLUSH VALVE: SLOAN - SL-ECOS-186-0.13-OR-HW - AUTOMATIC NO-TOUCH EXPOSED URINAL FLUSHOMETER, 19 MM (3/4") SPUD COUPLING FOR TOP SPUD URINAL, HARDWIRED, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 0.5 LPF (0.125 GPF), CHLORAMINE RESISTANT PERMEX® SYNTHETIC RUBBER DIAPHRAGM, SMART SENSE TECHNOLOGY™ SELF-ADAPTIVE INFRARED SENSOR, SENSOR LOCATED ON ENGINEERED METAL COVER WITH REPLACEABLE LENS WINDOW, COURTESY FLUSH® ELECTRICAL OVERRIDE BUTTON, FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, 19 MM (3/4") I.P.S. SCREWDRIVER BAK-CHEK® ANGLE CONTROL STOP WITH VANDAL-RESISTANT STOP CAP, SWEAT SOLDER ADAPTER KIT WITH COVER TUBE, HIGH BACK PRESSURE VACUUM BREAKER, 19 MM (3/4") SUPPLY PIPE, CAST WALL FLANGE WITH SET SCREW, 6 VAC			•			
		CARRIER: WATTS - CA-321 - EPOXY COATED, FLOOR MOUNTED URINAL CARRIER WITH BEARING PLATE, WALL PLATE, WELDED FEET, UNIVERSAL STEEL HANGAR SUPPORT PLATE, BOTTOM BEARING PLATE, HEAVY GAUGE STEEL OFFSET UPRIGHTS, INTEGRAL MOUNTING BRACKETS, PLATED HARDWARE.						
		URINAL: AMERICAN STANDARD - 6590001.020 - WALL-HUNG, FLUSH VALVE URINAL, TOP SPUD, VITREOUS CHINA, WHITE FINISH, URINAL OPERATES IN THE RANGE OF 0.5 TO 3.8 LPF (0.125 - 1.0 GPF). POWERFUL WASHDOWN FLUSH ACTION, 51 MM (2") NPT FEMALE OUTLET, 19 MM (3/4") SPUD CONNECTION. THE FLUSH VALVE CAN BE INSTALLED EITHER ON LEFT OR RIGHT SIDE. VANDAL-RESISTANT STAINLESS STEEL STRAINER. CSA B45.4-08 compliant, ANSI A117.1 compliant, ASME A112.19.2 compliant.						
		CLEANOUT: WATTS - CO-380-RD - NON-ADJUSTABLE WALL CLEANOUT, CAST IRON, NO-HUB OUTLET, ROUND STAINLESS STEEL ACCESS COVER, REMOVABLE GAS TIGHT GASKETED CLEANOUT PLUG FOR URINAL						
		COUPLING: MISSION - HEAVYWEIGHT SERIES - HEAVYWEIGHT SHIELDED HEAVY-DUTY NO-HUB (MJ) COUPLING. FOR NON-PRESSURE GRAVITY FLOW APPLICATIONS ONLY. RECOMMENDED FOR ABOVE AND UNDERGROUND INSTALLATIONS, (4 OR 6) HEAVY-DUTY TYPE 304 STAINLESS STEEL WORM DRIVE CLAMPS, HEAVY-DUTY TYPE 304 CORRUGATED STAINLESS STEEL SHIELD, ONE-PIECE MOLDED ELASTOMERIC SEALING GASKET, TIGHTENED TO 92 KGF.CM (80 LBF.IN) MAX. TORQUE.						
<u>L1</u>	UNDERMOUNT LAVATORY	FAUCET: SLOAN - SF-2400-PLG-CP-0.5GPM-MLM-IR-FCT - COUNTER MOUNTED, AUTOMATIC NO-TOUCH, PLUG-IN LAVATORY FAUCET, POLISHED CHROME FINISH, 102 MM (4") CENTERSET, BRASS CONSTRUCTION, 610 MM (24") FLEXIBLE HOSE, 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, MULTI-LAMINAR SPRAY OUTLET, 0.175 GPC (0.66 LPC) FACTORY DEFAULT, INTEGRATED PEDESTAL SPOUT, 119 MM (4-3/4") SPOUT REACH, 117 MM (4-5/8") HIGH, INFRARED SENSOR WITH ADJUSTABLE RANGE, FILTERED SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER, FOUR (4) AA-SIZE BATTERY BACK-UP POWER SOURCE, MIXING VALVE ORDERED SEPARATELY, SLOAN TRANSFORMER RECOMMENDED.			•			
		MIXING VALVE: LAWLER - 570-86820 - POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, LEAD FREE BRASS BODY CONSTRUCTION, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE, TO ADJUST THE MIXED OUTLET TEMPERATURE OF THE VALVE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 (PSI PRESSURE DROP). THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 4-7/8" (124 MM) HEIGHT, THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 3/8" MNPT (9.5 MM) INLET, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, NICKEL PLATED FINISH, THERMOSTATIC MASTER WATER CONTROLLED FIXTURES, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3						
		LAVATORY: AMERICAN STANDARD - 9482000.020 - VITREOUS CHINA, WHITE FINISH, REAR OVERFLOW, MOUNTING KIT SUPPLIED (047194-0070A).						
		OVERALL DIMENSIONS: 489 MM (19-1/4") LONG, 400 MM (15-3/4") WIDE, 140 MM (5-1/2") HIGH						
		BOWL DIMENSIONS: 425 MM (16-3/4") LONG, 337 MM (13-1/4") WIDE, 102 MM (4") DEEP FIXTURE DRAIN: MCGUIRE - 155A - STRAIGHT DRAIN, CAST BRASS, CHROME-PLATED FINISH, OPEN GRID PO PLUG, 7/32" (5.5MM) DIA HOLE SIZES, 17 GAUGE						
		32MM TAILPIECE DIAMETER, 17 GAUGE 152MM LONG.						
		SUPPLY: MCGUIRE - LFBV170 - LEAD FREE, SHALL BE CONSTRUCTED FROM POLISHED BRASS WITH CHROME-PLATED FINISH, 12MM I.P.S. INLET, 10MM O.D. INLET						
		P-TRAP: MCGUIRE - 8872CB - HEAVY CAST BRASS, 292MM DISTANCE, WITH CLEANOUT PLUG, STEEL BOX FLANGE, NEOPRENE GASKET, SLIPBUTS, 17 GAUGE SEAMLESS TUBULAR WALL BEND, ASME A112.18.2 CSA B125.2 CSA COMPLIANT						
<u>SH-1</u>	SHOWER KIT	TRIM VALVE: AMERICAN STANDARD - TU064500.002 - 9.3 LPM MAX FLOWRATE, METAL WALL VALVE TRIM, METAL LEVER HANDLE, PRESSURE BALANCE, INCLUDES INTEGRATED CHECK VALVES, DOUBLE CERAMIC PRESSURE BALANCE, WASHERLESS CERAMIC DISCS PROVIDE SMOOTH HANDLE MOVEMENT AND ARE UNAFFECTED BY HARSH WATER CONDITIONS. COMPLIANT WITH ASSE 1016, ASME A112.18.1016, CSA B125.16, ASME A112.18.1, CSA B125.1 SHOWER VALVE: RU101SS, CAST BRASS CONSTRUCTION, SHOWER VALVE, PRESSURE BALANCE ROUGH VALVE BODY ONLY, LESS TRIM, ONE-HALF INLETS AND OUTLETS, UNIVERSAL INLETS/OUTLETS, WITH A PRE-INSTALLED TEST CAP WITH STAINLESS STEEL RETAINING RING WITH FLATS, FEATURES BACK TO			•			
		BACK CAPABILITY SHOWER HEAD: AMERICAN STANDARD 1660.652.002 WATER SAVING MULTIFUNCTION RAIN, CHROME FINISH, RAIN SHOWERHEAD ONLY, 3-FUNCTION RAIN SHOWERHEAD, ALLOWS THE USER THE TYPE OF SPRAY, SPRAY PATTERN ADJUSTABLE FROM GENTLE RAIN, HARD RAIN, AND MASSAGE. INCLUDE PRESSURE COMPENSATING FLOW CONTROL DEVICE. 1/2" NPT CONNECTION, 6.6L/IMN MAX FLOW RATE. SHOWER ARM: AMERICAN STANDARD 1660240.002 WALL HUNG, BRASS CONSTRUCTION, SHOWER ARM, STANDARD, POLISHED CHROME FINISH 140MM, 13MM NPT THREAD						
		HAND SHOWER: AMERICAN STANDARD 1660766.002 POLISHED CHROME, 3 FUNCTION HAND SHOWER WITH PAUSE FEATUIRE, PROVIDES CONSISTEN FLOW OVER A WIDE PRESSURE RANGE, 5.7 L/MIN INCLUDES CHECK VALVE. SHOWER HOSE: AMERICAN STANDARD 8888.053.002 METAL SHOWER HOSE, POLISHED CHROME FINISH, 2007MM						
		DIVERTER VALVES: AMERICAN STANDARD R422 SOLID BRASS CONSTRUCTION, 2 DISCRETE FUNCTIONS, ROUGH VALVES, ROTATIONAL CONTROL ALTERNATES WATER FLOW BETWEEN TWO DIFFERENT SHOWER OUTLETS (SHOWERHEAD, HANDSPRAY, TUB SPOUT). FORGED BRASS VALVE BODY. 13MM NPT INLETS/OUTLETS						
		VACUUM BREAKER: AMERICAN STANDARD 1660.400.002 VACUUM BREAKER, POLISHED CHROME FINISH FOR INLINE WITH 13MM SIZE. SLIDE BAR: AMERICAN STANDARD 1660.236.002 STANDARD SLIDE BAR, POLISHED CHROME FINISH, 64MM WIDE, 600-899MM HIGH DIVERTER VALVE TRIM: AMERICAN STANDARD T064.430.295 IN-WALL DIVERTER VALVES, SOLID BRASS CONSTRUCTION, POLISHED CHROME FINISH,						
		STAMPED BRASS ESCUTCHEON, ROTATIONAL CONTROL ALTERNATES WATER FLOW BETWEEN DIFFERENT SHOWER OUTLETS, 1/2" NPT CONNECTIONS.						
<u>KS-1</u>	LUNCHROOM SINK	FAUCET: CHICAGO FAUCETS - 431-ABCP - COUNTER MOUNTED, MANUAL, SINGLE HANDLE, SINK FAUCET, POLISHED CHROME FINISH, 203 MM (8") CENTERSET, LEAD FREE ANSI/NSF 61 COMPLIANT, ECAST® BRASS CONSTRUCTION, CERAMIC CARTRIDGE, 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING NON-AERATED LAMINAR SPRAY OUTLET, TUBULAR CAST BRASS SPOUT, 229 MM (9") SPOUT REACH, 152 MM (6") HIGH, LEVER HANDLE, 13 MM (1/2") NPSM SUPPLY INLET.			•			
		MIXING VALVE: LAWLER - 570-86820 -POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, LEAD FREE BRASS BODY CONSTRUCTION, 1.9 - 30 LPM (0.5 - 8 GPM) RANGE FOR FLOWRATE. THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 4-7/8" (124 MM) HEIGHT, THE TEMPERATURE IS ADJUSTED WITH THE HELP OF SPINDLE, 3/8" MNPT (9.5 MM) INLET, 3/8" MNPT (9.5 MM) INLET, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, THERMOSTATIC MASTER WATER WIXING CONTROL VALVE, NICKEL PLATED FINISH, THERMOSTATIC MASTER WATER CONTROLLED						
		FIXTURES, ASSE 1070 APPROVED CERTIFIED TO CSA B125.3 BASIN: FRANKE - ALBD6406P-1-3 - 203 MM (8") CENTERSET, WITH FAUCET LEDGE,18 GAUGE TYPE 304 STAINLESS STEEL POLISHED #4 SATIN FINISH, FACTORY INSTALLED EZ TORQUE™ FASTENERS, FACTORY APPLIED RIM SEAL, CENTER BACK WASTE LOCATION, 38 MM (1-1/2") DRAIN, CRUMB CUP STRAINER, WASTE FITTING INCLUDED, UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE.						
		ANSI A117.1 COMPLIANT, ASME A112.19.3 COMPLIANT, CSA B45.4 COMPLIANT						
		SUPPLY: MCGUIRE - LFH165 - LEAD FREE, SHALL BE CONSTRUCTED FROM CAST BRASS VALVE, WITH CHROME-PLATED FINISH, 10MM(3/8") I.P.S. INLET, 10MM (3/8") O.D. OUTLET. P-TRAP: MCGUIRE - PW8089 - MOLDED CLOSED CELL VINYL (ANTI-MICROBIAL) WRAPPED CAST BRASS, GLOSSY WHITE, WITH CLEANOUT, ASME A112.18.2, CSA B125.2.						
		DRAIN: WATTS - FD-200NH-5-1-6 FLOOR DRAIN, ROUND HEAVY DUTY STRAINER, EPOXY COATED CAST IRON, NO HUB (MJ) OUTLET, UNSIZED PIPE, 75MM			•			



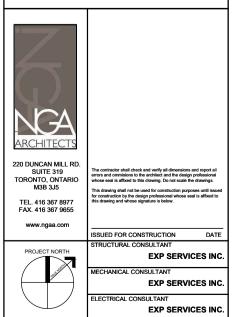
NO. DESCRIPTION 1 ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023 3 ISSUED FOR BUILDING PERMIT 4 ISSUED FOR 90% CLIENT REVIEW 10 NOV. 2023 05 JUL. 2024 5 ISSUED FOR TENDER REVISIONS PROJECT



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



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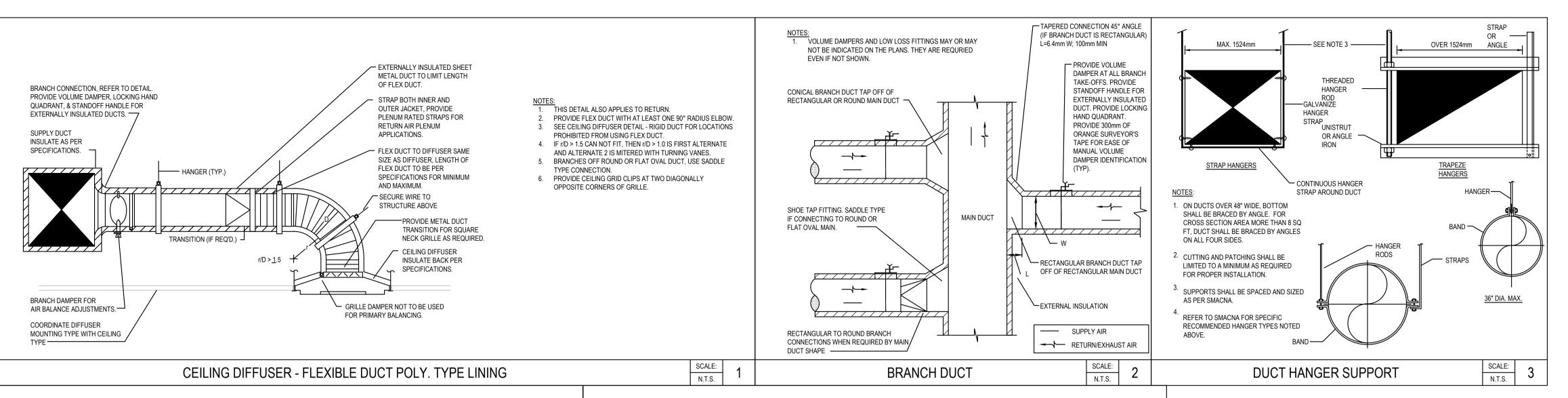
MECHANICAL SCHEDULES

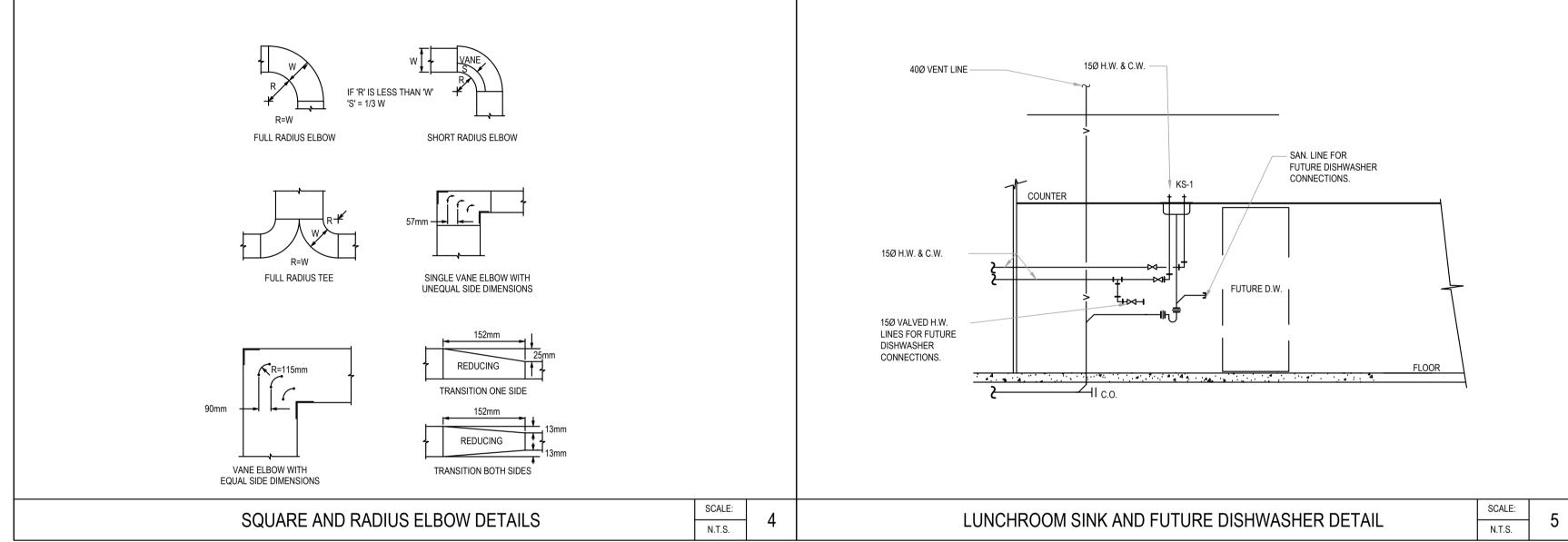
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PROJECT NO.
MRK-23007421-A0

SCALE N.T.S





NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	05 JUL. 2024



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4

ARCHITECTS 220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5 TEL 416 367 8977 FAX. 416 367 9655 www.ngaa.com	The contractor shall check and verify all errors and commissions to the architect an whose seals affixed to this drawing. Do This distrating shall not be used for construction by the design profession this drawing and whose signature is beld
	ISSUED FOR CONSTRUCTION STRUCTURAL CONSULTAN
	STRUCTURAL CONSULTAN

y all dimensions and report all tt and the design professional. Do not scale the drawings. onstruction purposes until issued ssional whose seal is affixed to below.

EXP SERVICES INC. EXP SERVICES INC. EXP SERVICES INC.

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MECHANICAL DETAILS

KT CHECKED ML MRK-23007421-A0 N.T.S

GENERAL CONDITIONS

GENERAL REQUIREMENTS

- THE WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE, THE MINISTRY OF LABOUR, THE CITY AND ALL CODES HAVING JURISDICTION, WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT 1.2. MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND / OR NEW WORK.
- PAY FOR AND OBTAIN ALL REQUIRED PERMITS, FEES. LICENSES, CERTIFICATES OF INSPECTION, ETC. PROVIDE AND SUBMIT REQUIRED DRAWINGS TO THE AUTHORITIES HAVING JURISDICTION.
- 1.4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS & SHALL MEET WITH THE APPROVAL OF THE CITY & PROVINCIAL FIRE MARSHAL
- ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS . THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING & ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, & AT NO EXPENSE TO THE OWNER.
- DO NOT SCALE DRAWINGS ALL DIMENSIONS & JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
- 1.7. CONTRACTOR TO PROVIDE ANY TEMPORARY HEATING AND OR COOLING MEASURES FOR SPACES THAT REQUIRE THE SHUTDOWN OF AN EQUIPMENT SERVING MULTIPLE AREAS.
- 1.8. CONTRACTOR TO KEEP A RECORD SET OF DRAWINGS ON SITE AT ALL TIMES. ANY CHANGES SHALL BE RECORDED ON THIS SET FOR AS-BUILT DRAWINGS
- PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

2. INTERRUPTION OF SERVICES

- 2.2. ALL INTERRUPTIONS OF EXISTING MECHANICAL SYSTEMS MUST BE APPROVED BY AND CO-ORDINATED WITH THE OWNER.
- DISRUPTION OF NORMAL OPERATIONS WILL NOT BE ALLOWED. ALL INTERRUPTIONS SHALL OCCUR AFTER THE CLOSE OF NORMAL HOURS. PREMIUM TIME TO BE INCLUDED IN THE TENDER PRICE.
- CONTRACTOR TO ARRANGE WITH THE OWNER FOR NECESSARY SHUTDOWNS FOR ALL SYSTEMS THAT REQUIRE TIE-INS AND WORK WITHIN OTHER TENANT SPACES. SCHEDULING OF THIS WORK TO BE COORDINATED WITH THE OWNER AND OTHER TENANTS.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MAJOR EQUIPMENT:

SUCH ITEMS PRIOR TO INSTALLATION OF NEW WORK.

- SUPPLY/NOZZLE AIR DIFFUSERS
- RETURN/EXHAUST GRILLES 3.1.2.
- 3.1.3. SPRINKLER HEADS
- ALTERNATE EQUIPMENT MAY BE SPECIFIED, PROVIDED THAT THE SPACE REQUIREMENTS, QUALITY AND PERFORMANCE CHARACTERISTICS, AIR AND FLUID FLOW REQUIREMENTS, WEIGHTS AND POWER REQUIREMENTS ARE EQUAL TO THE SPECIFIED EQUIPMENT. ACCEPTANCE OF ANY ALTERNATE EQUIPMENT SHALL BE BY THE CONSULTANT.

COORDINATION

- COORDINATE AND VERIFY EXACT LOCATIONS, SIZES, POINTS OF CONNECTION AND INVERT ELEVATIONS OF NEW AND EXISTING BUILDING PLUMBING SERVICE LATERALS ON SITE PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. MAKE FINAL CONNECTIONS TO
- 4.2. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR INCLUDING POWER LOADS OF NEW EQUIPMENT, FIXTURES AND APPLIANCES.
- COORDINATE LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES AND PENETRATIONS THRU WALLS, FLOORS, BEAMS (INCLUDING GRADE BEAMS/FOOTINGS) AND SLABS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- 4.4. COORDINATE AND PROVIDE PIPING ROUGH-INS AND CONNECTIONS TO EQUIPMENT, FIXTURES AND APPLIANCES THRU PRE MANUFACTURED CABINET
- FRAMING SYSTEMS (CHASES). 4.5. THE LOCATION, QUANTITIES AND SIZES OF EXISTING PIPING, FIXTURES, EQUIPMENT, SHUT-OFF VALVES, ETC. INDICATED ON THE PLANS HAS BEEN DERIVED FROM AVAILABLE RECORD DRAWINGS AND FIELD INVESTIGATIONS AND ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL VERIFY ALL
- 4.6. WHERE EXISTING/UNDOCUMENTED PIPING SYSTEMS ARE INSTALLED IN WALLS THAT ARE TO BE REMOVED OR REMODELED, THE CONTRACTOR SHALL IMMEDIATELY IDENTIFY SUCH SYSTEMS TO THE ARCHITECT FOR REVIEW PRIOR TO DEMOLITION OR REPOUTE. IF REPOUTE IS DEEMED NECESSARY TO
- 4.7. CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.

MAINTAIN OTHER BUILDING SYSTEM OPERATIONS, THE CONTRACTOR SHALL PROVIDE A SOLUTION TO THE REPOUTE FOR REVIEW BY THE ARCHITECT.

4.8. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.

SLEEVES, CUTTING AND PATCHING

- 5.1. INSTALL SLEEVES AND FRAMES FOR PIPING AND SIMILAR EQUIPMENT TO BE BUILT INTO THE BUILDING AS THE CONSTRUCTION PROGRESSES. IF THESE ARE NOT INSTALLED AT THE TIME OF CONSTRUCTION, THE COST OF CUTTING AND PATCHING AT A LATER DATE, WILL BE AT THE EXPENSE OF THIS
- THE PRIME MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL HOLES AND OPENINGS UP TO AND INCLUDING 200 mm 5.2.
- THE PRIME MECHANICAL CONTRACTOR IS TO LOCATE THE EXACT POSITIONS AND DIMENSIONS OF LARGER OPENINGS FOR CUTTING BY THE GENERAL DIVISION.
- SEAL AROUND SERVICES PASSING THROUGH CUT OPENINGS WITH MATERIALS EQUIVALENT TO THE FIRE RATING OF THE WALL FLOOR OR ROOF. ENSURE SEALING IS WEATHERPROOF FOR OPENINGS THROUGH EXTERIOR WALLS AND ROOFS. PROVIDE ANY PAINTING ON REPAIRED SURFACES IF REQUIRED BEFORE SEALING.
- PROVIDE SLEEVES FOR ALL NEW PIPING PASSING THROUGH FLOOR AND ROOF SLABS, BEAMS, CONCRETE WALLS AND SLAB TO SLAB PARTITIONS, ETC.
- SEAL TO BE AIR-TIGHT AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH PARTITIONS, BAFFLES ABOVE CEILINGS, AND THROUGH FLOORS THAT ARE NOT FIRE RATED.
- PROVIDE ALL SLEEVES REQUIRED FOR DUCTWORK, PIPING AND ACCESS OPENINGS.
- FOR INTERIOR WALLS, EXTERIOR WALLS ABOVE GRADE, NON WATERPROOF FLOORS, PROVIDE SCHEDULE 40 STEEL PIPE, MEDIUM CAST IRON OR 18 GAUGE GALVANIZED STEEL.

COMMISSIONING AND CLOSEOUT

- 6.1. CONTRACTOR PROVIDES COMMISSIONING AND REPORT FOR ALL THE NEW EQUIPMENT AND ANY ON-SITE TRAINING REQUIRED FOR OPERATION.
- 6.2. CLEAN ALL EQUIPMENT AND THE OVERALL INSTALLATION. FOLLOW INITIAL MAINTENANCE INSTRUCTIONS FROM THE MANUFACTURER.
- GUARANTEE IN WRITING FOR THE MATERIAL AND WORKMANSHIP INCLUDING THE MANUFACTURER'S GUARANTEE FOR THE PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE
- CERTIFY IN WRITING FOR ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. SUBMIT AS-BUILT DRAWINGS INDICATING ACTUAL LOCATION OF INSTALLED SERVICES AND EQUIPMENT

PLUMBING AND DRAINAGE

GENERAL

- THESE DRAWINGS ARE DIAGRAMMATIC WHEREIN THE POSITIONING OF PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH WORK BY OTHER TRADES AND BUILDING DESIGN/ CONSTRUCTION CONDITIONS PRIOR TO INSTALLATION.
- WORK REQUIRED BY THESE DOCUMENTS SHALL CONFORM TO APPLICABLE CODES AND STANDARDS. WHERE CONFLICTS OCCUR WITH CODES, DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL PREVAIL.
- PROVIDE SLEEVING, CUTTING, CORING AND PATCHING OF WALLS, FLOORS, ROOFS, FOOTINGS AND GRADE BEAMS AS REQUIRED TO FACILITATE THE WORK
- PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER DISSIMILAR METALS ARE JOINED.
- PIPING AND CONDUIT PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE INSTALLED WITH U.L.C. LISTED FIRESTOP SYSTEMS.
- REMOVE AND REINSTALL FIXTURES AND EQUIPMENT THAT ARE INDICATED TO BE RELOCATED. PROVIDE NEW VALVES, HOSES, ADAPTORS, CONNECTORS. AND OTHER MISCELLANEOUS DEVICES NECESSARY FOR COMPLETE INSTALLATION.

PIPING

- EXTEND EXISTING PIPING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS.
- OVERHEAD PIPING IN SHALL BE INSTALLED AS HIGH TO STRUCTURE AS POSSIBLE TO ALLOW FOR INSTALLATION OF FUTURE TENANT IMPROVEMENT WORK. INSTALL ALL VERTICAL PIPING AS CLOSE TO STRUCTURAL COLUMNS AS POSSIBLE TO MINIMIZE FURRING AROUND COLUMNS.
- DO NOT ROUTE PIPING OVER ELECTRIC ROOMS, TELECOMMUNICATION/ DATA ROOMS, ELEVATOR EQUIPMENT ROOMS OR EXIT PASSAGEWAYS FROM STRUCTURAL FLOOR TO STRUCTURAL CEILING UNLESS PIPING IS DEDICATED TO SERVE THAT ROOM. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL PANELS.
- PIPING SHALL HAVE ALL BURRS REMOVED, PIPE ENDS REAMED, AND CHIPS REMOVED, PLASTIC PIPING INSTALLED ON PRESSURIZED SYSTEMS SHALL BE CUT WITH PROPER TOOL CUTTERS PER THE MANUFACTURERS INSTRUCTIONS. SAW CUTTING OF PIPE PRODUCING SHAVINGS AND BURRS IS NOT ACCEPTABLE.
- BURIED METALLIC PIPING (E.G. CAST IRON, STEEL, COPPER, ETC.) SHALL BE INSTALLED WITHIN A MINIMUM 8 MIL. THICK POLYETHYLENE SLEEVE OR SEALED SHEET PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

HANGERS

- 3.1. PROVIDE HANGERS, BRACES, INTERMEDIATE FRAMING SUPPORTS, ANCHORS AND MISCELLANEOUS DEVICES REQUIRED FOR PIPE AND EQUIPMENT INSTALLATIONS.
- ALL HORIZONTAL PIPING SHALL BE SUPPORTED AT LEAST EVERY 10'-0" (3000 MM), EXCEPT FOR PIPE 1-1/4" (32 MM) AND SMALLER WHERE 8'-0" (2400 MM) SPACING IS REQUIRED.
- PIPE HANGERS FOR COPPER PIPING SHALL BE ADJUSTABLE CLEVIS TYPE ANVIL FIG. 260 COMPLETE WITH INSULATION SHIELD SIMILAR TO ANVIL FIG. 168.
- HANGER ROD SHALL BE STEEL WITH COPPER NUT.
- CLEVIS HANGERS TO BE OUTSIDE PIPE INSULATION. BETWEEN THE SHIELD AND THE PIPE, INSTALL A SECTION OF HIGH DENSITY INSULATION EQUAL TO FOAMED GLASS (3.75 TO 5.0 LB DENSITY MATERIAL) COMPLETE WITH CONTINUOUS VAPOUR BARRIER. EXTEND HIGHER DENSITY INSULATION 2" (50 MM)
- PIPE HANGERS AND SUPPORTS SHALL BE SECURED TO BEAMS, STEEL JOISTS, WALLS, FLOORS, ETC. DO NOT SUPPORT FROM METAL DECK.
- PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

AS BUILT DRAWINGS

PROVIDE RECORD AS-BUILT DRAWINGS FOR ALL WORK PERFORMED, DRAWINGS SHALL CONSIST OF REPRODUCIBLE PLANS WITH ALL INSTALLATION CHANGES INDICATED.

PIPE INSULATION

5.3.

5.16.

- INSULATION SHALL CONFORM TO ASHRAE STANDARD 90.1 (LATEST EDITION).
- ALL NEW DOMESTIC WATER PIPING AND FITTINGS SHALL BE INSULATED WITH INORGANIC GLASS FIBRES. BONDED WITH A THERMOSETTING RESIN COMPLETE WITH SELF SEALING LAP, "ASJ" ALLL SERVICE JACKET AND 3" (80 MM) WIDE "ASJ" BUTT STRIPS.
- DOMESTIC COLD AND HOT WATER PIPING INSULATION THICKNESS TO BE 1/2" (15 MM) FOR PIPE SIZES 1/2" TO 3" (13 MM TO 80 MM), COMPLETE WITH VAPOUR 5.5.
- BARRIER, USING INSULATION K FACTOR .24 AT 75°F (24°C) ACCEPTABLE PRODUCTS: .1 KNAUF .2 MANVILLE SCHULLER INTERNATIONAL .3 MANSON
- 5.8. ALL INSULATION SHALL BE APPLIED OVER A CLEAN, DRY SURFACE, AFTER ALL PRESSURE TESTING HAS BEEN CARRIED OUT AND REVIEWED BY THE CONSULTANT.
- 5.9. INSTALL INSULATION SHIELDS. THE INSULATION JOINTS SHALL BE BUTTED TIGHTLY. ADHERE THE VAPOUR BARRIER JACKET LAP WITH VAPOUR BARRIER 5.10.
- ADHESIVE AND ADHERE THE 3" (80 MM) WIDE BUTT JOINT STRIPS OVER ALL END JOINTS WITH ADHESIVE TO ENSURE CONTINUOUS VAPOUR BARRIER.
- 5.12. INSULATE ALL FITTINGS UP TO 2" (50 MM) WITH MITRE-CUT PIECES OF INSULATION AND PRESSURE-SENSITIVE, COLOUR-MATCHING TAPE.
- 5.13. 5.14. ALL EXPOSED FITTINGS 2" (50 MM) AND LARGER SHALL HAVE PRE-MOLDED "PVC" INSULATING FITTINGS COVERS.
- 5.15.
 - ALL EXPOSED INSULATED PIPING AND FITTINGS SHALL BE FINISHED WITH A FIRE RETARDANT PVC JACKET. NO ADDITIONAL FINISH NEED BE APPLIED TO

PIPE AND FITTINGS

1. STEEL PIPE AND FITTINGS

- SERVICE: NATURAL GAS
- 1.2. WELDED OR SEAMLESS SCHEDULE 40 ASTM-A53 STEEL PIPE AND FITTINGS, ALL TO CSA B149.1-10.
- 1.3. JOINTS: BLACK MALLEABLE IRON SCREWED UP TO 50mm (2"Ø) AND STEEL WELDED 65mm (2 1/2"Ø) AND LARGER.
- 1.4. VALVES: CGA CERTIFIED PLUG-COCK TYPE OR BALL VALVES INSTALLED WHERE SHOWN OR REQUIRED, WITH ONE FOR EACH APPLIANCE.

COPPER PIPE AND FITTINGS

- SERVICE: ALL DOMESTIC WATER PIPING
- 2.2. PIPING: PLAIN END TYPE "L" HARD DRAWN COPPER
- FITTINGS: SOLDER END WROUGHT COPPER. 2.3.
- JOINTS: ALL DOMESTIC HOT AND COLD POTABLE WATER PIPING SHALL BE JOINED USING 95/5 SOLDER CONTAINING NO LEAD COMPOUNDS (95% TIN/5% ANTIMONY). NON-POTABLE WATER PIPING SHALL BE JOINED USING A STANDARD 50/50 TIN/LEAD COMPOUND SOLDER.
- 2.5. VALVES: MINIMUM CERTIFIED RATING OF 200 psi (1380 kPa)
- 2.5.1. BALL: 1/2" TO 2-1/2" (15 MM TO 65 MM) STANDARD PORT BRONZE BODY, BRONZE FITTED SOLDER ENDS, PTFE SEATS AND PACKING, LEVER HANDLE.
 - ACCEPTABLE PRODUCTS: CRANE 9322
 - JENKINS 902
- GLOBE VALVES: 2" AND SMALLER (50 MM OR LESS) ACCEPTABLE PRODUCTS:
 - CRANE 7
 - JENKINS 106B
- GLOBE VALVES: 2-1/2" AND LARGER (65 MM OR MORE) IRON BODY, BRONZE SEAT AND DISC. ACCEPTABLE PRODUCTS:
 - CRANE 351 JENKINS 234J
 - CHECK VALVES: 2" AND SMALLER (50 MM OR LESS)
 - ACCEPTABLE PRODUCTS CRANE 37
 - JENKINS 4092

3. SANITARY DRAINAGE - BURIED INTERNAL

- SERVICE: ALL BURIED INTERNAL PIPING
- PIPING: CAST IRON PIPE OR IF APPROVED PVC OR ABS PIPE
- FITTINGS: COMPLIANT WITH CSA B70 OR CSA CAN 3-B181.1-M85 FOR ABS; CAN 3-B181.2-M85 FOR PVC

4. SANITARY DRAINAGE - SUSPENDED INTERNAL

- SERVICE: ALL SUSPENDED INTERNAL PIPING
- PIPING: CAST IRON PIPE OR DWV COPPER TO ASTM B306
- 4.3. FITTINGS: COMPLIANT WITH CSA B70 OR 50-50 SOLDERED CAST BRASS DRAINAGE FITTINGS TO CSA B158.1

PIPING INSTALLATION

5.18.

5.19.

5.20.

- PROVIDE ALL NECESSARY PIPING INCLUDING FITTINGS AND UNIONS TO COMPLETE SYSTEMS SHOWN. CUT PIPES TRUE AND SQUARE, REAM FILE ENDS TO SMOOTH SURFACE, ALL TO PIPE MANUFACTURER'S AND ACCEPTED TRADE STANDARDS. FITTINGS SHALL BE OF EQUIVALENT BORE AS PIPE. OF EQUAL STRENGTH AND WEIGHT. INSTALL PIPING TO MANUFACTURER'S SPECIFICATIONS AND PUBLISHED DIRECTIONS. INSTALL PIPING TO CONFORM TO ONTARIO BUILDING CODE (CHAPTER 7).
- INSTALL ABOVE GROUND PIPING TO CLEAR OTHER PIPING, INSULATION, OBSTRUCTIONS, ACCESS DOORS AND CONTROLS. TAKE BRANCHES OFF MAINS WITH FITTINGS AND 45° AND 90° ELBOWS. LOCATE VALVES FOR EACH OPERATION. LOCATE CLEANOUTS IN ACCESSIBLE LOCATIONS TO APPROVAL AND TO SUIT ACCESS.
- DO NOT USE FERROUS PIPING. FITTINGS. BUSHINGS. NIPPLES OR PLUGS IN COPPER PIPING. PROVIDE DIELECTRIC 5.3. BUSHINGS AT CONNECTIONS TO FERROUS MATERIALS OR EQUIPMENT ON WATER SYSTEMS.
- PROVIDE CHROME PLATED PIPES, FITTINGS AND VALVES WHERE EXPOSED IN WASHROOMS AND OTHER OCCUPIED 5.5. SUPPLY AND INSTALL FLANGES, UNIONS OR COMPRESSION FITTINGS ON EQUIPMENT SIDE OF SHUT-OFF VALVES IN PIPING
- CONNECTIONS TO EQUIPMENT, TANKS AND FIXTURES SO SAME CAN BE DISCONNECTED FOR SERVICE. FLANGES AND UNIONS SHALL BE OF SAME MATERIAL AS PIPING.
- 5.6. SUPPLY AND INSTALL COMPRESSION TYPE SHUT-OFF VALVES UNDER EACH FIXTURE AND WHERE EXPOSED TO VIEW. OF CHROME PLATED SCREWDRIVER TYPE.
- CO-ORDINATE ROUTING OF PIPING WITH OTHER TRADES. PROVIDE INTERFERENCE DRAWINGS AS REQUIRED.
- REFER TO MANUFACTURER'S INSTALLATION DRAWINGS. 5.8.
- 5.9. INSTALL SYSTEMS SO THAT THEY CAN BE THOROUGHLY DRAINED AND ALL AIR ELIMINATED.
- 5.10. DURING WELDING OR SOLDERING PROCEDURES, PROVIDE A FIRE RETARDANT CLOTH, MAT OR BLANKET TO PROTECT THE STRUCTURE, AND ADEQUATE FIRE PROTECTION EQUIPMENT AT ALL LOCATIONS WHERE WORK IS BEING DONE.
- PLUG AND/OR CAP ALL PIPE OPENINGS/FITTINGS DURING CONSTRUCTION. 5.11.
- CAST IRON PIPE TO HAVE ANTHES RUBBER GASKET MECHANICAL JOINTS, PC4 COLD CAULKING COMPOUND HUB AND 5.12. SPIGOT JOINTS, CAULKED LEAD JOINTS WITH OAKUM AND SOFT PIG LEAD, OR BIBBY BISEAL. CONFINED SPACES TO BE
- 5.13. THREADED PIPE JOINTS TO BE TRUE AND ROUND WITH FULL CUT THREADS, ENDS REAMED AND FILED WITH ALL BURRS REMOVED IRON TO IRON WITH A FILLER OF GRAPHITE AND OIL.
- 5.14. SOLDER JOINTS SHALL BE CAREFULLY CLEANED WITH EMERY CLOTH. USE "SILFOS" SILVER SOLDER FOR BURIED PIPING. SEE SECTION 15700 FOR TYPE OF SOLDER TO BE USED ON VARIOUS PIPING SYSTEMS.
- 5.15. MAKE JOINTS IN COPPER PIPING WITH 95/5 TIN/ANTIMONY SOLDER WITH NON-CORROSIVE SOLDERING FLUX. CLEAN, REAM AND THOROUGHLY TIN EACH JOINT AND REMOVE EXCESS SOLDER AND FLUX.
- GRADE VENT PIPING UP FROM FIXTURES SO IT IS SELF DRAINING. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION COMPLETE WITH SWING JOINTS,
- 5.17. EXPANSION LOOPS, AND ANCHORS AS NECESSARY. SILVER SOLDER EACH JOINT IN EXPANSION LOOPS WHERE USED.

IN ADDITION TO TESTS REQUIRED BY LOCAL AUTHORITIES, TEST PIPING AND DRAINS IN THE PRESENCE OF CONSULTANT

NOTIFY THE CONSTRUCTION MANAGER IN WRITING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF TESTS.

EQUIPMENT, PIPING, DUCTING OR ANY OTHER MECHANICAL COMPONENTS ARE NOT TO BE SUSPENDED FROM FORMED

- AS HEREINAFTER DESCRIBED.
- FAILURE TO DO SO MAY REQUIRE TEST TO BE RE-DONE.
- HOLLOW STEEL DECKING.
- INSTALL VALVES IN AN UPRIGHT POSITION ON HORIZONTAL PIPING FOR EASY ACCESS. IF THERE ARE SPACE 5.21. CONSTRAINTS, MOUNT VALVES AT A 45°.
- MAKE ALL THREADED PIPE JOINTS ON WATER PIPING USING A THREAD PASTE OR TEFLON TAPE SUITABLE FOR THE SERVICE FOR WHICH PIPE IS TO BE USED. THE USE OF HEMP OR SIMILAR MATERIALS ON THE THREADED JOINTS WILL NOT BE ACCEPTED.



• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

REVISIONS MISSISSAUGA

NO. DESCRIPTION

ISSUED FOR 90% CLIENT REVIEW

ISSUED FOR TENDER

UED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023

05 JUL. 2024

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AIR DISTRIBUTION

DUCTWORK

- VERIFY LOCATION OF ALL EXISTING PIPING AND DUCTWORK PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO ARCHITECT.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND/OR NEW WORK.
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED & TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS & PROCEDURES DETAILED IN THE A.S.H.R.A.E. HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY S.M.A.C.N.A.
- 1.5. ALL DUCTWORK TO 2" (500 PA) MAXIMUM STATIC PRESSURE SHALL BE FABRICATED TO SMACNA DUCT CONSTRUCTION STANDARDS, SECTION NO. 1
- 1.6. DUCTWORK SHALL BE FABRICATED FROM BEST QUALITY LOCK-FORMING GALVANIZED STEEL SHEETS, OF THE FOLLOWING THICKNESS:

12" (300 MM) OR LESS NO. 26 U.S. 13" TO 29" (325 MM TO 725 MM) NO. 24 U.S. 30" TO 54" (750 MM TO 1375 MM) NO. 22 U.S. 55" TO 84" (1400 MM TO 2130 MM) NO. 20 U.S.

- 1.7. ALL DUCT JOINTS DURING MANUFACTURE SHALL BE SEALED WITH 3M HIGH VELOCITY SEALER, TOUGH BOND, OR DURO DYNE S-2 HIGH VELOCITY SEALER, AND ON THE FACES OF THE JOINTS AFTER CLEATS ARE INSTALLED.
- LONGITUDINAL SEAMS SHALL BE MADE WITH PITTSBURGH LOCK OR BUTTON PUNCH SEAMS IN ALL SIZES. ALL DUCTWORK SHALL BE CROSS-BROKEN OR BEADED 12" (300 MM) O.C. FOR RIGIDITY.
- PROVIDE BALANCING VOLUME DAMPERS IN EACH BRANCH DUCT AND IN EACH MAIN DUCT TO PROVIDE FOR COMPLETE AIR BALANCING. PROVIDE ADEQUATE ACCESS. OPPOSED BLADE DAMPERS (OBD'S) ARE NOT CONSIDERED BALANCING DAMPERS.
- 1.10. DAMPERS INSIDE DUCTWORK TO BE SUITABLY REINFORCED TO PREVENT VIBRATION.
- 1.11. PROVIDE SPIN-ON CONNECTORS C/W BALANCING DAMPER AT TAKE-OFF FROM MAIN DUCT PROVIDED ON DIFFUSER BRANCH DUCTS.
- 1.14. ALL FLEXIBLE CONNECTIONS TO BE ULC LISTED AND LABELLED, NEOPRENE COATED, GLASS FABRIC, FACTORY FABRICATED AS APPROVED BY LOCAL AUTHORITIES.
- 1.15. ALL FLEX DUCTS SHALL BE CONSTRUCTED WITH EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1-1/2" THICK FIBERGLASS INSULATION (k-.25 at 75^F.). ENCAPSULATED SPRING STEEL WIRE HELIX, AND IMPERVIOUS SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
- 1.16. FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH TWO INCH WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS.
- 1.17. FLEXIBLE DUCTWORK SHALL NOT EXCEED 1.8M (6') IN LENGTH. CONNECT DUCTWORK TO DIFFUSERS AND RIGID DUCTWORK WITH A MINIMUM OF 3 SELF-TAPPING SCREWS, SEAL WITH DUCT SEALER AND WRAP WITH GLASS FAB TAPE.
- 1.18. ALL CEILING DIFFUSERS SHALL BE 4 WAY THROW UNLESS SHOWN OTHERWISE.
- 1.19. ADJUST PATTERN DEVICES OF ALL AIR OUTLETS AS INDICATED ON DRAWINGS AND/OR FOR PROPER AIR DISTRIBUTION WITH CONSIDERATION FOR COMFORT AND SOUND CONDITIONS.
- 1.20. FIRE DAMPERS TO BE PROVIDED AS PER WALL TYPE. PROVIDE ULC LISTED AND LABELED TYPE B OR C, NON-ASBESTOS. LATCHED ACCESS DOORS TO BE PROVIDED IN DUCTWORK TO ALL FIRE DAMPERS.
- 1.21. MINIMUM OUTDOOR AIR REQUIREMENTS HAVE BEEN CALCULATED BASED ON ASHRAE 62.1-2013 BASED ON THE ASSUMPTION THAT OUTSIDE AIR IS PROVIDED TO HEAT PUMPS BY THE BASE BUILDING MAKE UP AIR UNIT AT A RATE OF 20% OF THE TOTAL HEAT PUMP FLOW. BALANCE BASE BUILDING OUTSIDE AIR SYSTEM TO ACHIEVE THESE QUANTITIES.
- 1.22. BALANCE ALL DIFFUSERS AND REGISTERS TO QUANTITIES SHOWN. SUBMIT TO ARCHITECT A WRITTEN BALANCE REPORT. THE AIR BALANCE CONTRACTOR MUST BE INDEPENDENT OF THE MECHANICAL CONTRACTORS & MUST BE A.A.B.C. OR N.E.B.B. QUALIFIED.

HANGERS

- DUCTWORK SHALL HAVE SUBSTANTIAL HANGERS ATTACHED TO THE STRUCTURE TP SECURE THE DUCTS IN PLACE AND PREVENT VIBRATION. NO CADDY CLIPS OR PLUMBERS TAPE PERMITTED FOR HANGING DUCTS.
- HORIZONTAL DUCTWORK UP TO 30" (760 MM) WIDE OR 24"Ø SHALL BE SUPPORTED BY GALVANIZED 1" (25 MM) 16 GAUGE OR HEAVIER HANGERS PLACED NOT OVER 6'-0" (1800 MM) APART, WITH ENDS TURNED UNDER THE DUCT. SECURE TO DUCT WITH SHEET METAL SCREWS, TWO (2) PER SIDE, AND ONE(1) IN
- 2.3. HORIZONTAL DUCTWORK OVER 30" (760 MM) WIDE SHALL REST ON GALVANIZED ANGLE IRON SUPPORTS OR UNISTRUT CHANNELS, WITH ROD HANGERS AT 6'-0" (1800 MM) SPACING AS FOLLOWS:

DUCT SIZE ROD ANGLE 30" TO 48" 1/4" 1-1/2" X 1-1/2" X 1/8" (750 MM TO 1200 MM) (6 MM) (40 MM X 40 MM X 3 MM) 49" TO 72" 3/8" 1-1/2" X 1-1/2" X 1/8" (1225 MM TO 1825 MM) (9 MM) (40 MM X 40 MM X 3 MM) 73" TO 84" 3/8" 1-5/8" X 1-5/8" X 3/16" (1850 MM TO 2130 MM) (9 MM) (45 MM X 45 MM X 5 MM)

3.7. PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

4. INSULATION

- 4.1. ANY SUPPLY AIR DUCTWORK THAT IS CONCEALED IN CEILING SPACES IS TO BE INSULATED.
- 4.2. INSULATION, ADHESIVES, VAPOR-BARRIER MATERIALS, AND OTHER ACCESSORIES SHALL BE NONCOMBUSTIBLE. THE MATERIALS SHALL NOT HAVE A ULC FLAMESPREAD RATING MORE THAN 25 AND A SMOKE DEVELOPED RATING NOT MORE THAN 50.
- 4.3. INSULATE ALL SUPPLY AIR DUCTWORK WITH OWENS/CORNING TYPE 75 FIBERGLASS INSULATION WITH VAPOR BARRIER, 2" THICK AND AN AVERAGE INSTALLED "R" VALUE OF 5.8. INSULATION MATERIAL SHALL MEET THE REQUIREMENTS OF ASHRAE 90.1-2010.
- 4.4. EXTERNAL DUCT INSULATION IS NOT REQUIRED WHEN THE SUPPLY AIR DUCTWORK IS INSTALLED EXPOSED IN A CONDITIONED SPACE.
- 4.5. INTERNALLY LINED DUCTWORK: LINING TO BE 25MM (1") THICK, 25 kg/m3 (1.5 lb/ft3) DENSITY FIBREGLASS WITH NEOPRENE COATING. SEAL ALL CUT EDGES OF INSULATION WITH BAKELITE 200-32 OR EQUIVALENT.
- 4.6. WHERE INTERNAL INSULATION IS INDICATED, DUCT DIMENSIONS ARE NET CLEAR e.g. AFTER INSULATION HAS BEEN INSTALLED.

AS BUILT DRAWINGS

5.1. PROVIDE RECORD AS-BUILT DRAWINGS FOR ALL WORK PERFORMED, DRAWINGS SHALL CONSIST OF REPRODUCIBLE PLANS WITH ALL INSTALLATION CHANGES INDICATED.

TESTING AND ADJUSTING

- .1 ALL PIPING IS TO BE TESTED BEFORE COVERING IS APPLIED, AND BEFORE BACKFILLING OR
- .2 ALL TESTING SHALL BE DONE TO THE SATISFACTION AND APPROVAL OF THE CONSULTANT AND THE
- DIVISION SHALL NOTIFY THE CONSULTANT FORTY-EIGHT (48) HOURS PRIOR TO TESTING. .3 ALL TESTS MUST BE WITNESSED BY THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR
- .4 TEST ALL DOMESTIC WATER PIPING TO A PRESSURE OF 150psi AND PROVE TIGHT FOR A PERIOD OF 8 HOURS. TESTING WITH NITROGEN IS ALSO ACCEPTABLE PROVIDED

COMMISSIONING AGENT. FAILURE TO DO SO WILL RESULT IN A RE-TEST.

A PRESSURE OF 200psi IS USED. NATURAL GAS PIPING IS TO BE TESTED AS REQUIRED BY

FIRE RATED WALLS & FIRE STOPPING

1. ESCUTCHEONS AND PLATES

- .1 PROVIDE ON EXPOSED PIPES PASSING THROUGH FINISHED WALLS, PARTITIONS, FLOOR AND
- .2 USE CHROME OR NICKEL-PLATED BRASS, SOLID TYPE WITH SET SCREWS FOR CEILING OR WALL
- .3 INSIDE DIAMETER SHALL FIT AROUND FINISHED PIPE. OUTSIDE DIAMETER SHALL COVER SLEEVE.
- .4 WHERE SLEEVE EXTENDS ABOVE FINISHED FLOOR, ESCUTCHEONS OR PLATES SHALL CLEAR SLEEVE
- .5 COVER SLEEVES AND OPENINGS AROUND EXPOSED PIPING IN ALL FINISHED AREAS WITH CHROME PLATED ESCUTCHEONS. COVER ALL EXPOSED DUCT SLEEVES IN FINISHED AREAS WITH AN 18 GAUGE GALVANIZED STEEL COLLAR FIXED TO WALL OR FLOOR.
- 6 SEAL ALL SLEEVES THRU FIRE RATED WALLS, FLOORS AND WITHIN MECHANICAL ASSEMBLIES. STOP INSULATION FLUSH WITH WALL AND FLOOR SURFACES AND SEAL SPACE BETWEEN DUCT/PIPE AND SLEEVE WITH ULC APPROVED AND LISTED FIRE STOPPING MATERIAL.
- 7 SEAL ALL SLEEVES THRU NON FIRE RATED WALLS, FLOORS. STOP INSULATION AT WALL AND FLOOR SURFACES RAM PACK ULC LABELLED MINERAL WOOL MATERIALS AROUND PIPING AND AND DUCTWORK. APPLY AN APPROVED CAULKING COMPOUND OVER THE RAM PACKED MATERIAL
- .8 FOR FOUNDATION WALLS APPLY AN APPROVED CAULKING COMPOUND OVER RAM PACKED MINERAL WOOL ON BOTH SIDES. APPLY A LAYER OF GLASSFAB EMBEDDED IN TWO COATS OF AN APPROVED MASTIC COMPOUND.

ELECTRIC BASEBOARD HEATER

- 1.1. ELECTRIC HEATERS ARE TO BE CERTIFIED AND LABELLED IN ACCORDANCE WITH CSA-C22.2 NO. 46. ELECTRIC AIR-HEATERS, AND ARE TO BE COMPLETE WITH AUTOMATIC RESET HIGH LIMIT TEMPERATURE CONTROL, BAKED EPOXY/POLYESTER POWDER COAT WHITE OR ALMOND FINISH AS SELECTED, AND IN ACCORDANCE WITH THE DRAWING SCHEDULE.
- 2. ACCEPTABLE MANUFACTURERS ARE:
- 2.1. OUELLET CANADA INC.;
- 2.2. CHROMALOX INC.;
- 2.3. STELPRO DESIGN INC.
- BASEBOARD HEATERS
- 3.1. LOW PROFILE WALL MOUNT BASEBOARD HEATERS, EACH APPROXIMATELY 150 MM (6") HIGH, 65 MM (2½") DEEP. COMPLETE WITH:
- 3.1.1.ENCLOSURE: #22 GAUGE STEEL BODY WITH #20 GAUGE STEEL CONNECTION BOX AT BOTH ENDS OF THE HEATER, TWO ROWS OF MOUNTING HOLES, SINGLE SCREW BUILT-IN WIRE HOLDER, AND #20 GAUGE STEEL REMOVABLE FRONT PANEL WITH ROUNDED UPPER CORNERS:
- 3.1.2. HEATING ELEMENT: STANDARD WATT DENSITY (900 W/M) TUBULAR STEEL HEATING ELEMENT WITH ALUMINIUM FINS. NOISE FREE AND FLOATING ON HIGH TEMPERATURE NYLON BUSHINGS:
- 3.1.3.INTEGRAL THERMOSTAT: FACTORY INSTALLED, TAMPERPROOF, ADJUSTABLE BI-METAL THERMOSTAT; 3.1.4.ENCLOSURE ACCESSORIES: FACTORY SUPPLIED ENCLOSURE ACCESSORIES AS INDICATED ON THE FLOOR PLAN DRAWINGS AND/OR HEATER SCHEDULE;
- 4. INSTALLATION OF ELECTRIC HEATERS
- 4.1. SUPPLY ELECTRIC HEATERS WHERE SHOWN, COMPLETE WITH ALL REQUIRED ACCESSORIES AS INDICATED. HAND HEATERS, IN ORIGINAL PACKAGING, TO THE ELECTRICAL TRADE AT THE SITE IN THE ROOM/AREA WHERE THEY ARE TO BE INSTALLED.
- 4.2. LOCATE ALL ELECTRIC HEATERS FOR THE ELECTRICAL TRADE SO THAT ACCURATE ELECTRICAL ROUGH-IN CAN BE MADE. CONFIRM EXACT LOCATIONS PRIOR TO ELECTRICAL ROUGH-IN.
- 4.3. ENSURE THAT ALL HEATERS ARE PROPERLY INSTALLED.
- 4.4. WHERE REMOTE THERMOSTATS ARE INDICATED, PROVIDE THE THERMOSTATS AND ALL REQUIRED CONTROL WIRING AND ACCESSORIES. UNLESS OTHERWISE INDICATED, LOCATE THERMOSTATS 1.4 M (5') ABOVE THE FLOOR, AND CONFIRM EXACT THERMOSTAT LOCATIONS PRIOR TO ROUGHING-IN.
- 4.5. START-UP: REFER TO THE ARTICLE ENTITLED EQUIPMENT AND SYSTEM START-UP IN THE MECHANICAL WORK SECTION ENTITLED MECHANICAL WORK GENERAL INSTRUCTIONS.
- 4.6. DEMONSTRATION AND TRAINING: REFER TO THE ARTICLE ENTITLED EQUIPMENT AND SYSTEM O&M DEMONSTRATION & TRAINING IN THE MECHANICAL WORK SECTION ENTITLED MECHANICAL WORK GENERAL INSTRUCTIONS. INCLUDE FOR A FOUR HOUR ON-SITE HEATER OPERATION DEMONSTRATION AND TRAINING SESSION. THE TRAINING IS TO BE A FULL REVIEW OF ALL COMPONENTS INCLUDING BUT NOT LIMITED TO CONSTRUCTION DETAILS, OPERATION, AND MAINTENANCE.



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NO. DESCRIPTION SSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023 ISSUED FOR BUILDING PERMIT ISSUED FOR 90% CLIENT REVIEW ISSUED FOR TENDER 05 JUL. 2024 REVISIONS



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



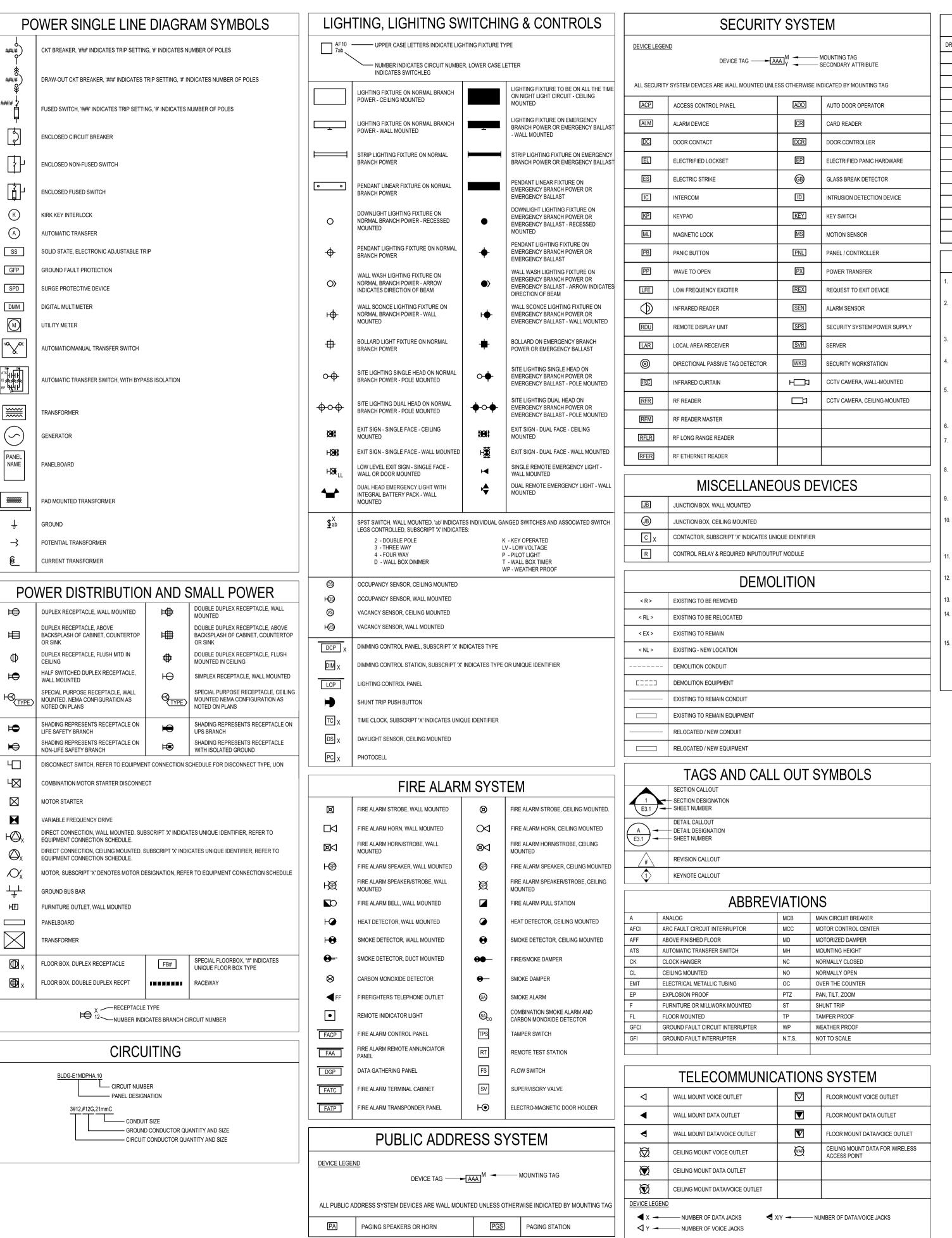
EXP SERVICES INC

EXP SERVICES INC

DRAWING LIST

KT | ML MRK-23007421-A0 N.T.S

MECHANICAL SPECIFICATIONS 2



NO SUBSCRIPT = (1) DATA/VOICE

OUTLET MOUNTING HEIGHTS TO BE COORDINATED WITH INTERIOR DESIGNER DURING DD PHASE

1	DRAWING LIST	
DRAWING NO.	DRAWING TITLE	SCALE
E-001	ELECTRICAL LEGEND, GENERAL NOTES & DRAWING LIST	N.T.S.
E-100	DEMOLITION SITE PLAN - POWER, SYSTEM & LIGHTING	1:200
E-101	PROPOSED SITE PLAN - POWER, SYSTEM & LIGHTING	AS SHOWN
E-102	ELECTRICAL SITE DETAILS	N.T.S
E-200	OVERALL DEMOLITION LIGHTING LAYOUT	1:125
E-201	OVERALL DEMOLITION POWER AND SYSTEMS LAYOUT	1:125
E-300	OVERALL PROPOSED LIGHTING LAYOUT	1:125
E-301	OVERALL PROPOSED POWER AND SYSTEMS LAYOUT	1:125
E-501	FIRE ALARM ZONING AND SCHEDULE	1:125
E-601	LUMINAIRE SCHEDULE	N.T.S.
E-602	PANEL SCHEDULES	N.T.S.
E-702	DOOR DETAILS	N.T.S.
E-801	ELECTRICAL SINGLE LINE DIAGRAM	N.T.S.
E-802	FIRE ALARM RISER DIAGRAM	N.T.S.
-	ANIMAL SERVICES - PSN REQUEST (CITY OF MISSISSAUGA DRAWING)	N.T.S.
-	ANIMAL SERVICES - PSN CABLE (CITY OF MISSISSAUGA DRAWING)	N.T.S.

DRAWING LIST

GENERAL NOTES

ELECTRICAL DOCUMENTS ARE BASED ON AVAILABLE INFORMATION AND SHALL BE READ IN CONTUNCTION WITH OTHER CONSULTANTS' DOCUMENTS INCLUDING ARCHITECTURAL. MECHANICAL AND STRUCTURAL.

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENTS OF ELECTRICAL AND SYSTEM

- DEVICES. THE FINAL LOCATION AND ELEVATION OF ALL ELECTRICAL AND SYSTEMS DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL PACKAGE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND EQUIPMENT. REPORT ANY DISCREPANCIES TO CONSULTANT.
- ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, DEVICES AND CONNECTIONS. SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
- DURING CONSTRUCTION IF REQUIRED/IMPACTED BY OTHER WORKS, CONTRACTOR TO TEMPORARILY REMOVE/RELOCATE ELECTRICAL SYSTEM AND/OR PROVIDE TEMPORARY CONNECTIONS ON SITE TO ALLOW OTHERS'
- MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, REPORT TO LANDLORD, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
- CONTRACTOR TO PROVIDE WRITTEN NOTICE TO OWNER FOR ANY SHUTDOWN REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF THIS PROJECT. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIR/REPLACES WITHOUT EXTRA COST, AND TO THE SATISFACTION OF THE OWNER.
- ALL OPENINGS. IF APPLICABLE. SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL, ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL, AND SHALL BE
- INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
- CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REUSED IN THIS PROJECT.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICE, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMACOID TYPE, COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO INCLUDE FOR PAYMENT OF REQUIREMENT PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION, ETC. IF REQUIRED.
- CONTRACTOR TO REPORT BACK TO THE ENGINEER AND OWNER ON ANY ELECTRICAL AND COMMUNICATION SYSTEM FAILURES THAT OCCUR DURING CONSTRUCTION PHASE.
- CONTRACTOR SHALL CONDUCT ARC FLASH STUDY FOR THE NEW EQUIPMENT AND PROVIDE LABELS AS REQUIRED.
- DOOR HARDWARE SCHEDULE BY DOOR HARDWARE CONSULTANT. REFER TO ARCHITECTURAL FLOOR PLANS AND DOOR HARDWARE SCHEDULE FOR DOOR DEVICE LOCATIONS. REQUIREMENTS AND OTHER DOOR HARDWARE INFORMATION AND PROVIDE ELECTRICAL POWER, ROUGH-IN ETC. ACCORDINGLY.
- ALL THE SECURITY RELATED WORK TO BE PERFORMED BY THE BASE BUILDING SECURITY VENDOR (SECURITAS). SECURITAS TO PROVIDE ALL THE SECURITY AND ACCESS CONTROL DEVICES INCLUDING BUT NOT LIMITED TO CARD READERS, RELAYS & INTERLOCKING BETWEEN CARD READERS AND AUTOMATIC DOOR OPERATORS AND REQUIRED CABLING FOR ALL THE SECURITY DEVICES. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-INS AND JUNCTION BOXES TO SUIT. ELECTRICAL CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS AS REQUIRED. ALL WORK SHALL BE COMPLETED UNDER CASH ALLOWANCE.



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NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 202
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 202
3	ISSUED FOR BUILDING PERMIT	01 NOV. 202
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 202
5	ISSUED FOR TENDER	05 JUL. 2024

REVISIONS



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



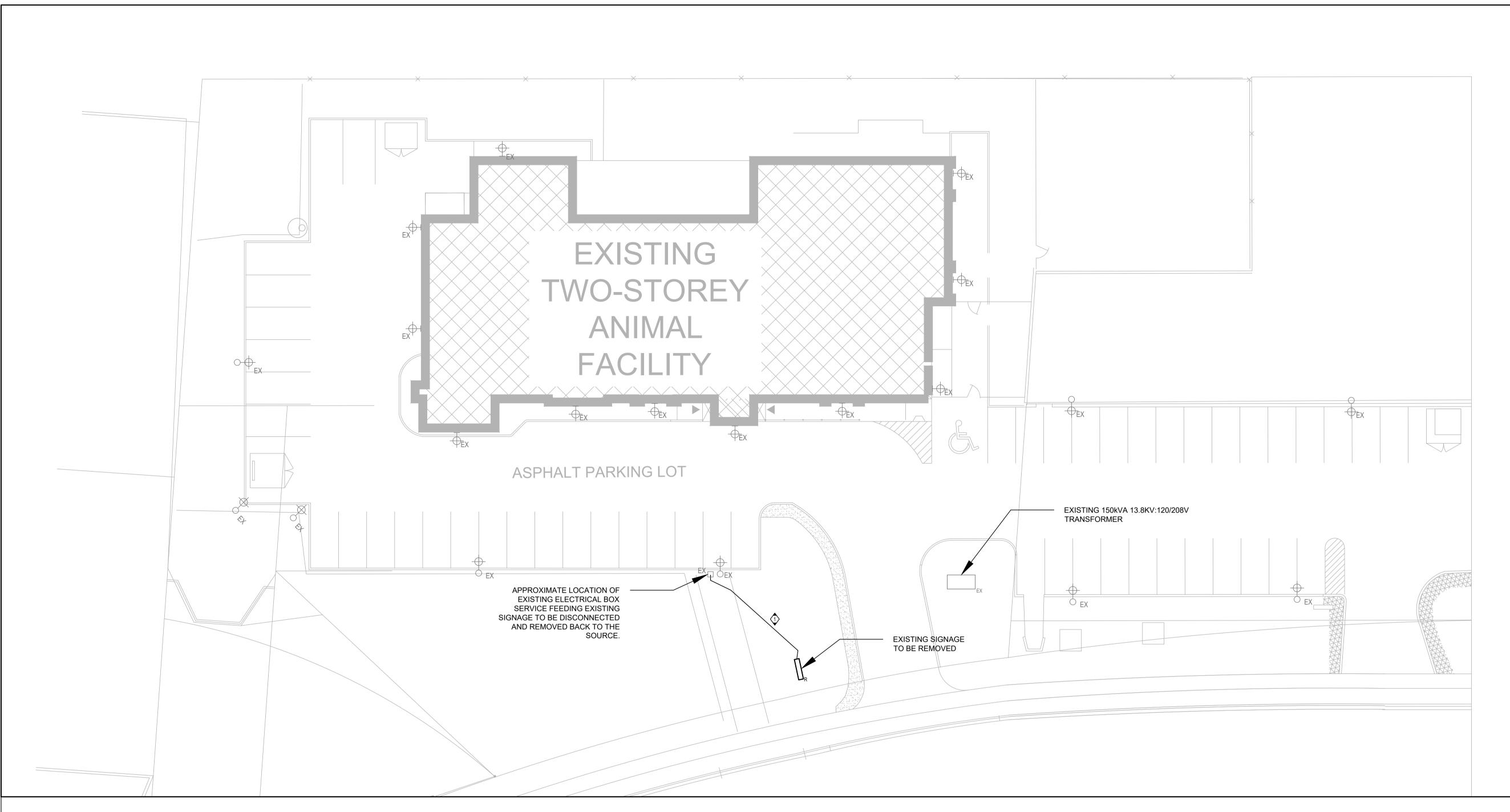
220 DUNCAN MILL RI SUITE 319 TORONTO, ONTARIO M3B 3J5 TEL. 416 367 897 FAX. 416 367 965

EXP SERVICES IN EXP SERVICES INC EXP SERVICES INC

DRAWING LIST ELECTRICAL LEGEND, GENERAL NOTES & DRAWING LIST

JT DL/SL MRK-23007421-A0 E-001

N.T.S.



1 SITE PLAN - DEMOLITION

GENERAL NOTES:

1. ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.

2. GENERAL CONTRACTOR SHALL COORDINATE WITH SERVICE LOCATING CONTRACTOR (MULTIVIEW) BEFORE EXCAVATION. MAKE SURE THE EXISTING LINE AND SERVICES ARE NOT INTERRUPTED AND REMAIN FUNCTIONAL DURING CONSTRUCTION. RESTORE CONCRETE AND ASPHALT TO MATCH THE EXISTING. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION DURING EXCAVATION.

KEY NOTES:

EXISTING SERVICES FEEDING SIGNAGE SHALL BE DISCONNECTED SAFELY AND REMOVED BACK TO THE SOURCE.

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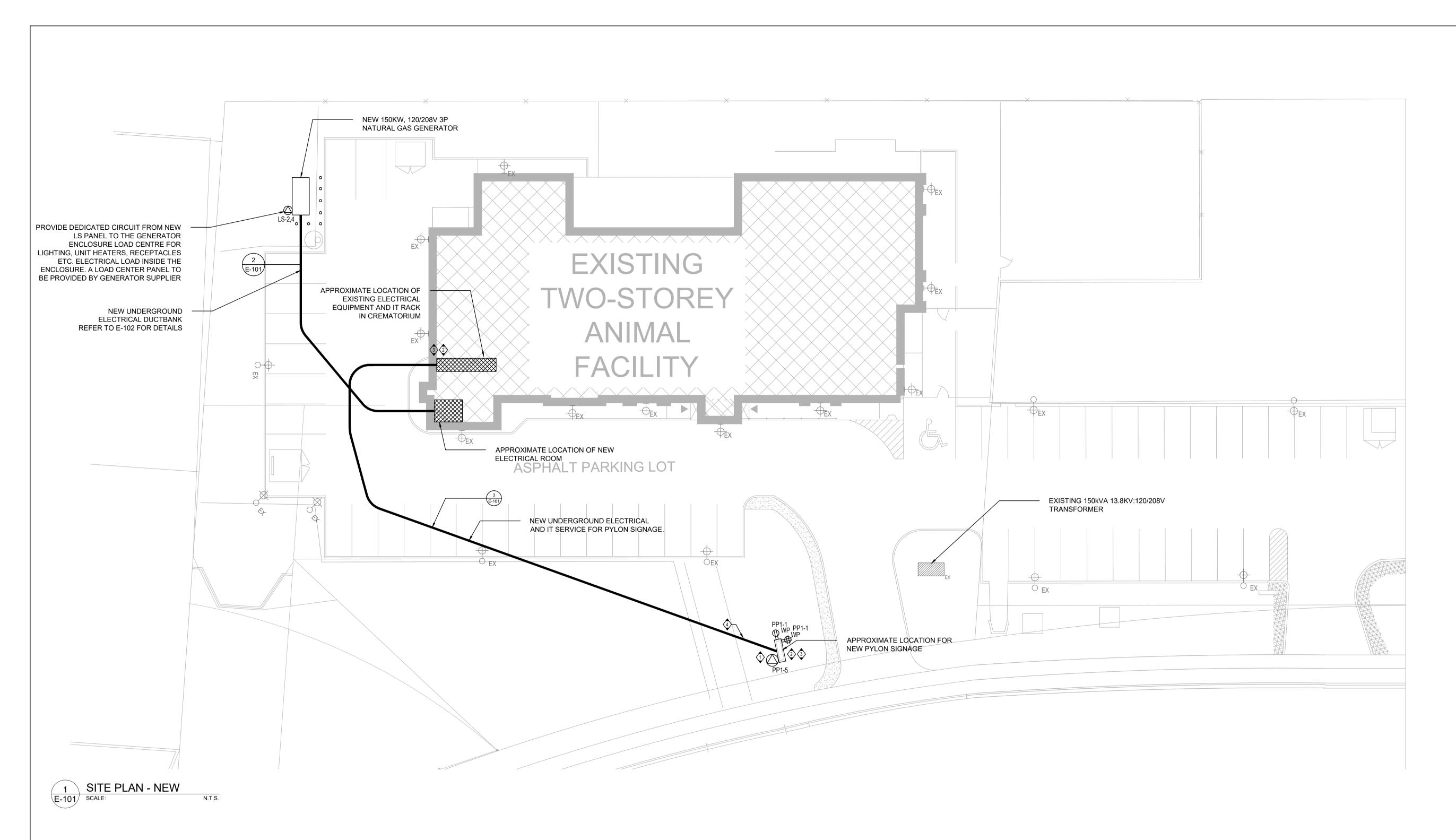
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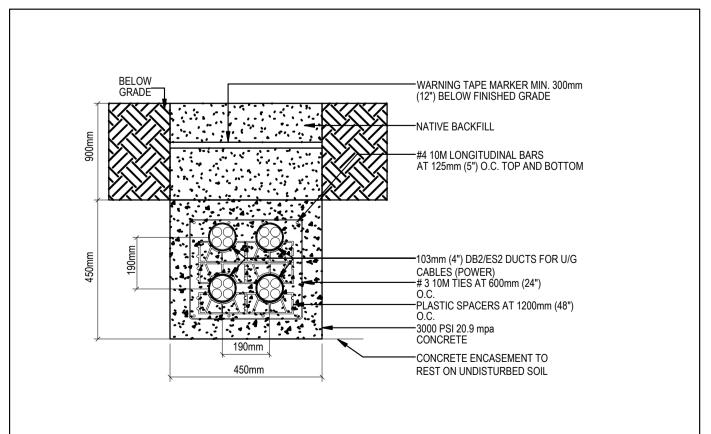
DRAWING LIST DEMOLITION SITE PLAN - POWER,
SYSTEMS & LIGHTING

SHEET NO.

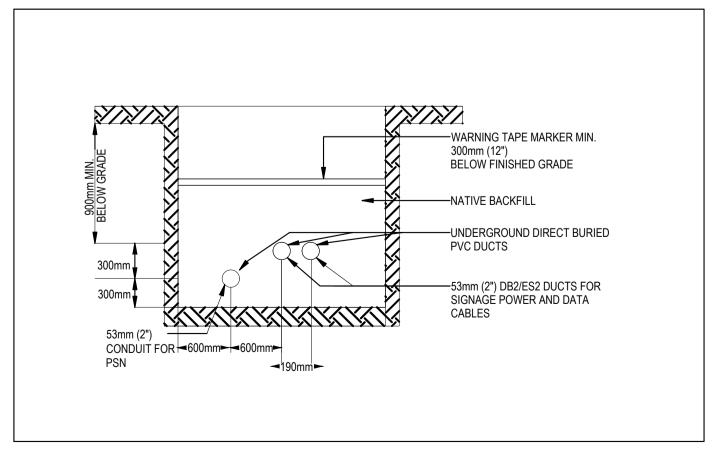
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PROJECT NO. MRK-23007421-A0 1:200





UNDERGROUND DUCT BANK DETAILS



UNDERGROUND DIRECT BURIED DETAILS 3 UND SCALE:

KEY NOTES:

- in addition to power connection, contractor shall provide two (2) 53mm EMPTY CONDUITS WITH PULL STRINGS FROM PYLON SIGNAGE TO EXISTING ELECTRICAL ROOM FOR DATA AND PSN SERVICES. EXACT CONDUIT TERMINATION LOCATION IN BUILDING TO BE COORDINATED WITH CLIENT
- © CONTRACTOR SHALL PROVIDE ONE(1) 6 STRAND OUTDOOR RATED SINGLE MODE FIBRE CABLE FOR PYLON SIGNAGE. PROVIDE TWO(2) SPH PATCH PANELS - ONE (1) FOR THE PYLON SIGNAGE AND ONE (1) IN ELECTRICAL ROOM AND CONNECT TO THE EXISTING IT RACK IN THE ELECTRICAL ROOM.
- GATORLINK MEDIA CONVERTOR SUPPLIED BY OTHERS. ELECTRICAL CONTRACTOR SHALL INSTALL IN PYLON SIGN AND CONNECT TO EXISTING IT RACK IN THE ELECTRICAL ROOM.
- PSN CONDUIT SHALL BE CAPPED AT THIS APPROXIMATE LOCATION WITH TRACER WIRE TO BE LOCATABLE FOR FUTURE CONNECTION.

GENERAL NOTES:

- ROUTING OF ELECTRICAL SITE SERVICES SHOWN ON THIS DRAWING IS DIAGRAMMATIC ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PSN INFRASTRUCTURE WITHIN THE CONSTRUCTION AREA AND ENSURE ACCESS FOR MAINTENANCE PURPOSES CAN BE PROVIDED AT ALL TIMES.
- MAINTAIN MINIMUM 0.3M VERTICAL AND 0.6M HORIZONTAL CLEARANCES WITH PSN INFRASTRUCTURE.
- HYDROVAC OR HAND DIG AT ALL LOCATIONS WHERE PROPOSED WORK CROSSES PSN INFRASTRUCTURE.
- LOCATES MUST BE COMPLETED PRIOR TO STARTING ANY CONSTRUCTION.
- HYDROVAC OR HAND DIG WHEN WORKING WITHIN 1.0M OF PSN
- ALL EXISTING SERVICES AND EQUIPMENT ON SITE SHALL REMAIN EXISTING
- UNLESS OTHERWISE NOTED.
- FOR NEW UNDERGROUND SERVICES, CONTRACTOR TO COORDINATE ON-SITE WITH THE EXISTING UNDERGROUND SERVICES AND ENSURE NO INTERFERENCE.
- ELECTRICAL CONTRACTOR TO PROVIDE CABLES AND BURY THE CABLES WITHIN THE DUCT AS SHOWN IN THE DETAILS. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION TO BURY.



NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AL
2	ISSUED FOR 50% CLIENT REVIEW	13 00
3	ISSUED FOR BUILDING PERMIT	01 NC
4	ISSUED FOR 90% CLIENT REVIEW	10 NO
5	ISSUED FOR TENDER	05 JU

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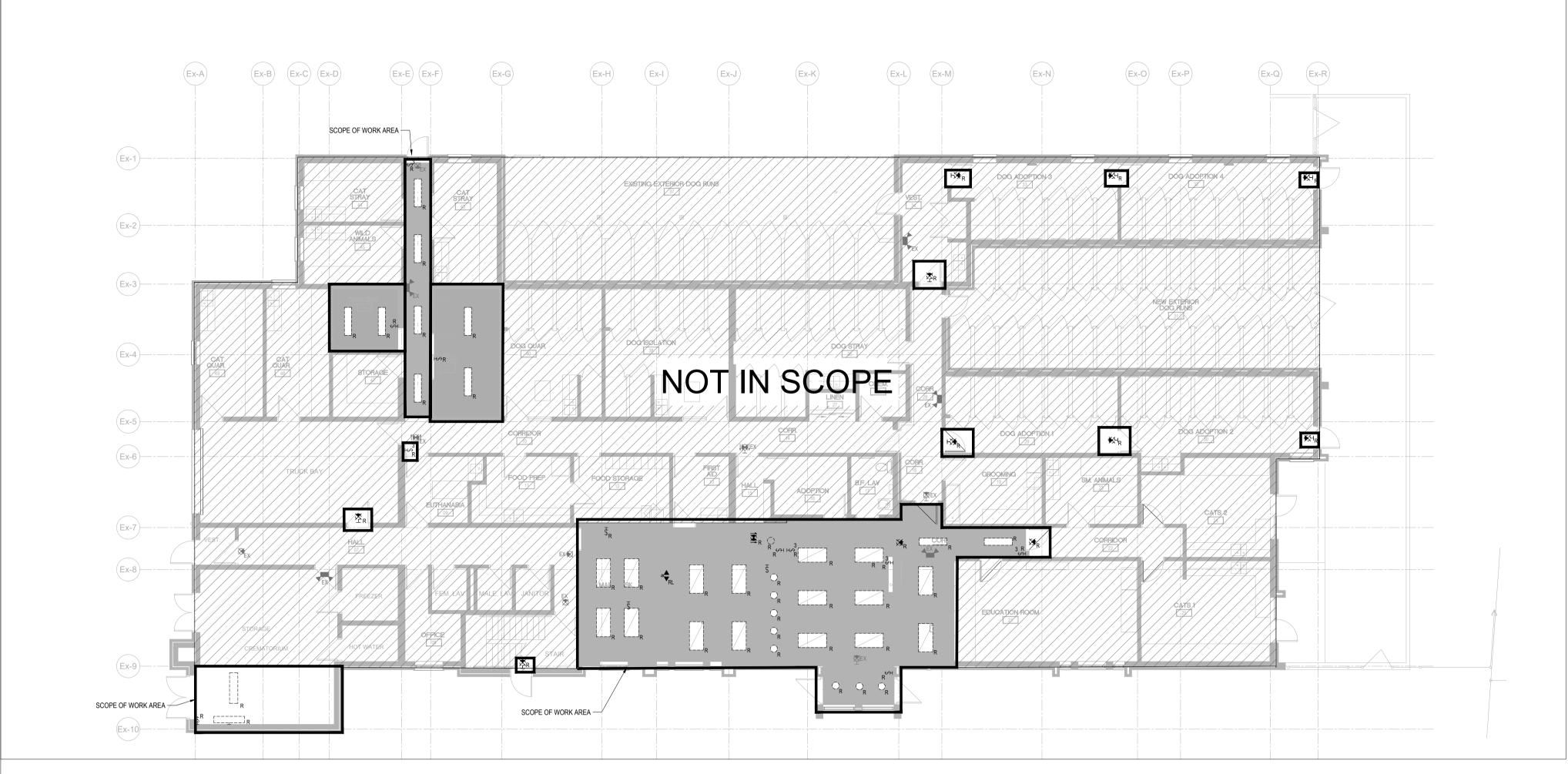
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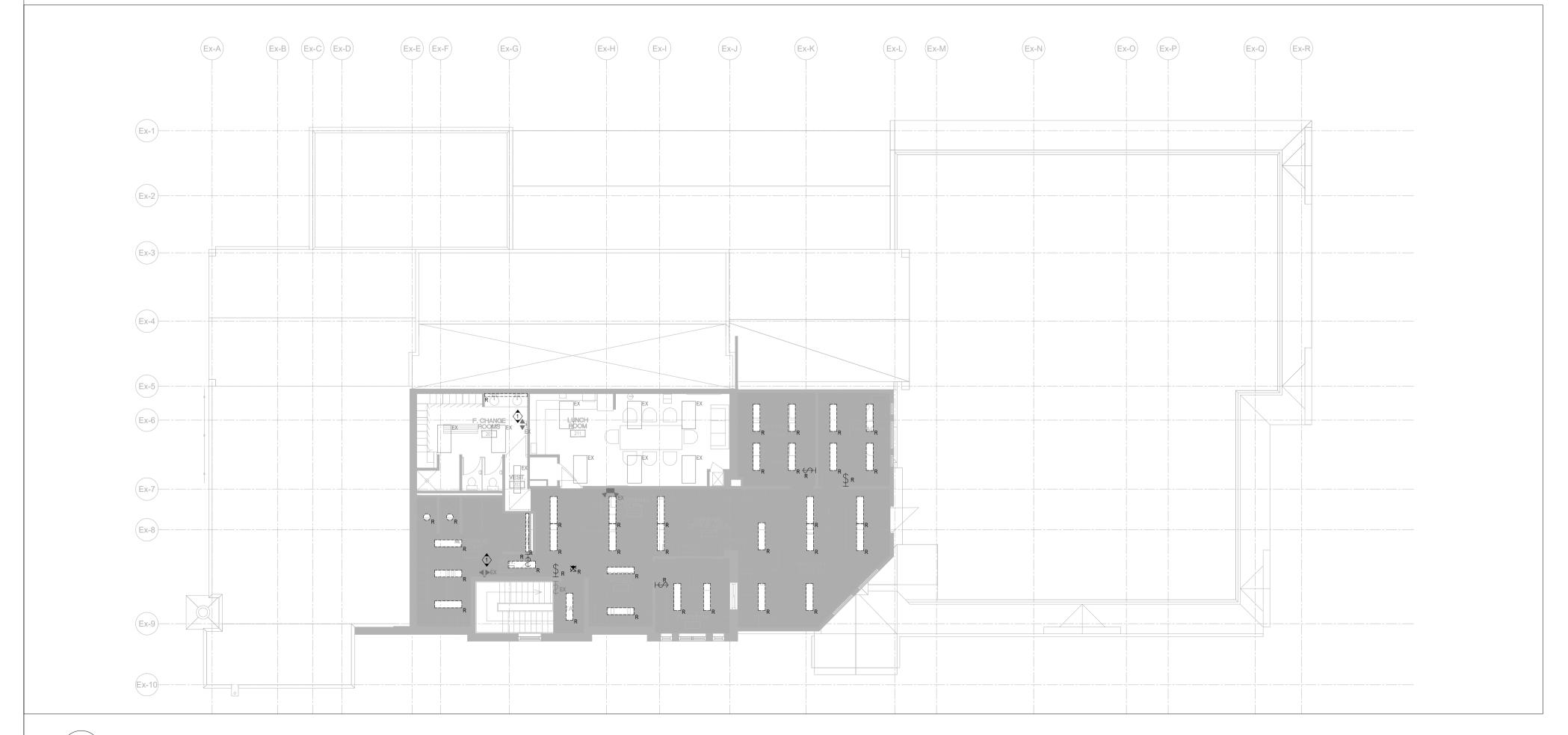
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PROPOSED SITE PLAN - POWER,
SYSTEM & LIGHTING MRK-23007421-A0

AS SHOWN



1 GROUND FLOOR DEMOLITION LIGHTING LAYOUT
E-200 SCALE: 1-42E



2 SECOND FLOOR DEMOLITION LIGHTING LAYOUT
E-200 SCALE:

GENERAL NOTES

- ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.
- ALL THE LIGHTING FIXTURES BEING DEMOLISHED SHALL BE SAFELY REMOVED AND MADE SAFE. WIRING AND CONDUITS SHALL BE REUSED TO CONNECT NEW LIGHTING FIXTURE AS SHOWN ON DRAWING E-300.
- ALL THE LIFE SAFETY EQUIPMENT INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING AND EXIT SIGNAGE TO BE DISCONNECTED FROM EXISTING PANEL AND RE-CONNECTED TO THE NEW LIFE SAFETY PANEL 'LS'.

KEY NOTES:

EXISTING REMOTE HEADS SHALL BE TEMPORARILY DISCONNECTED TO ACCOMODATE ARCHITECTURAL SCOPE OF WORK AND RECONNECTED AT THE



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153	ISSUES				
NO.	DESCRIPTION	DATE			
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 202			
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 202			
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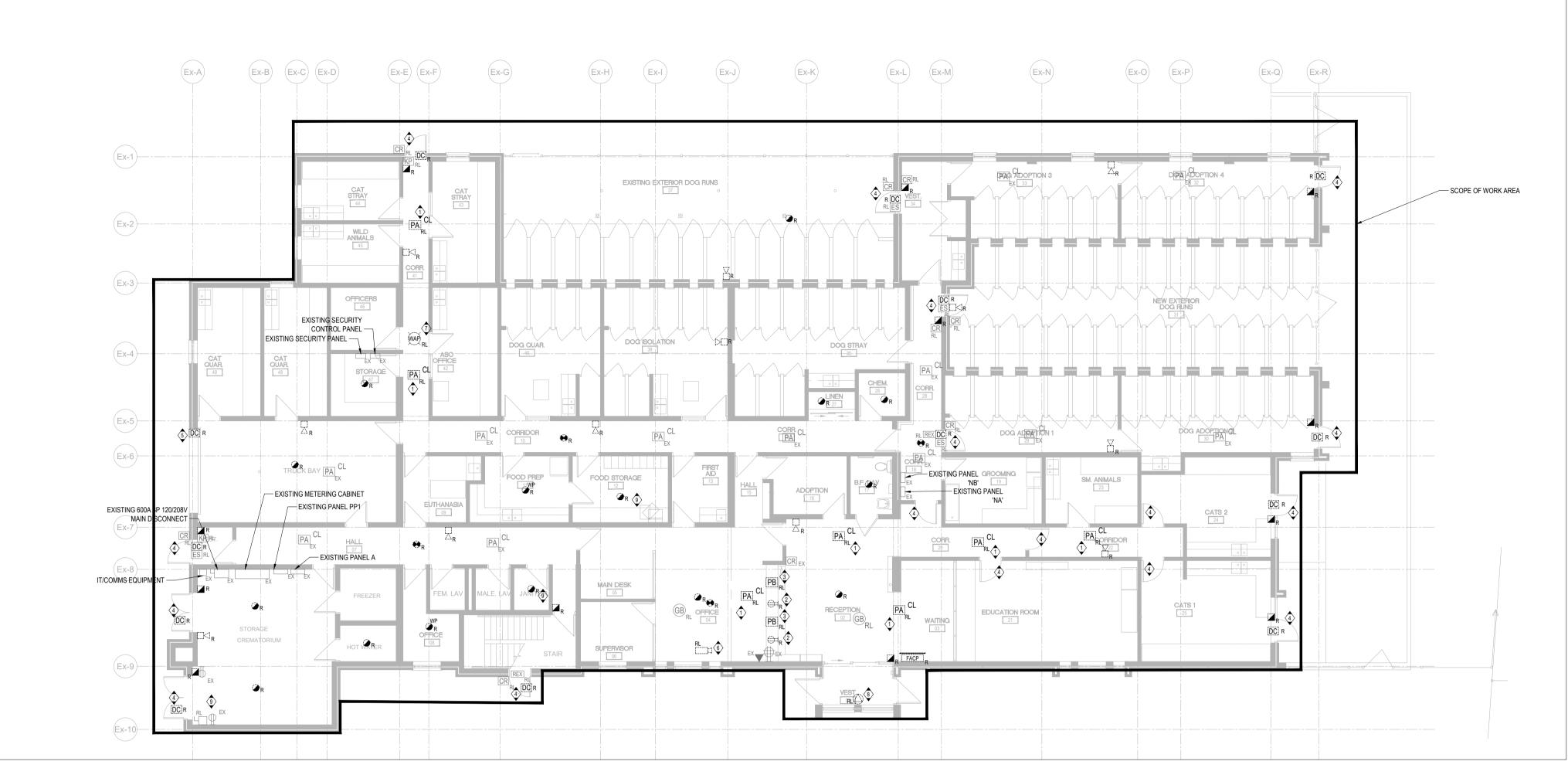
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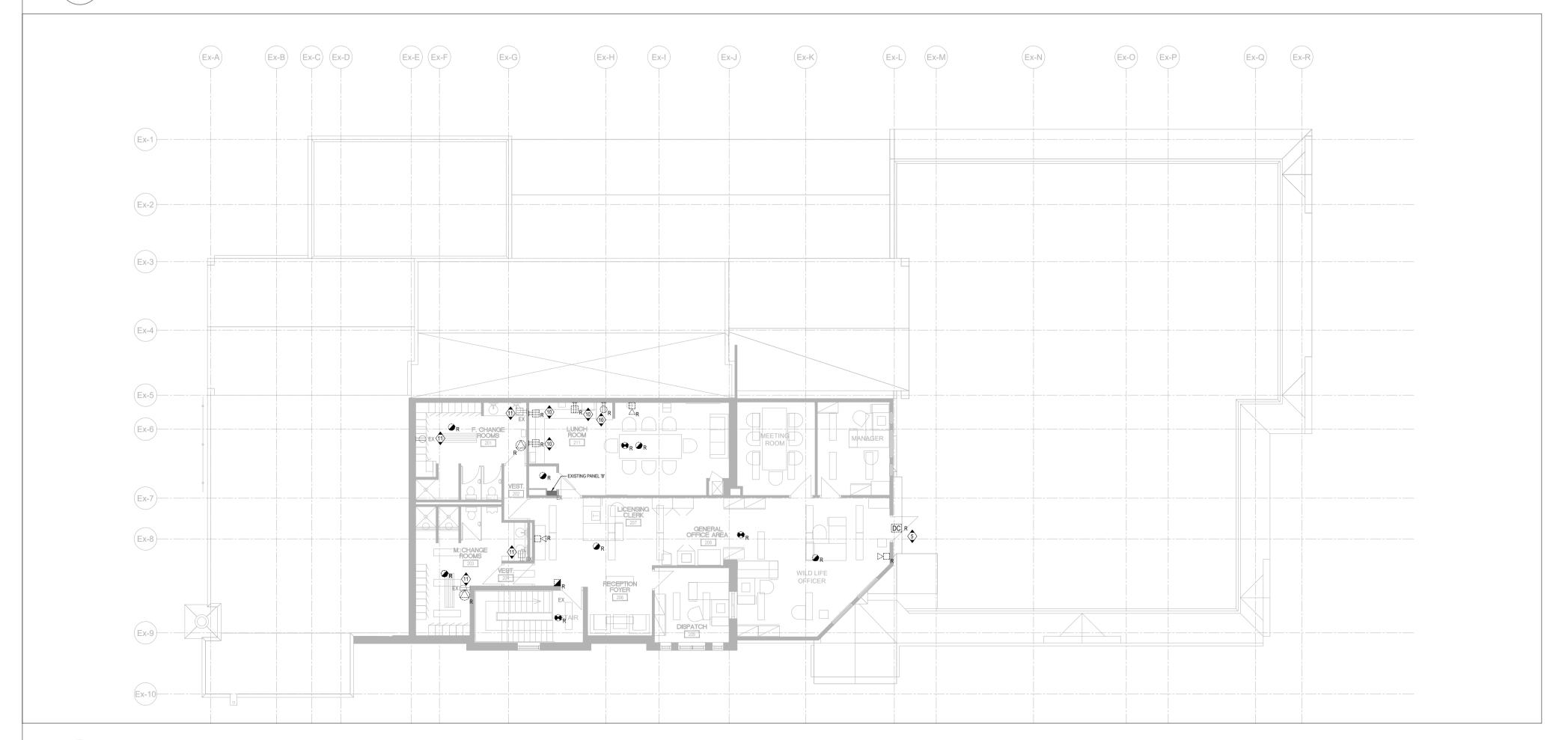
EXP SERVICES INC.

DRAWING LIST

DEMOLITION LIGHTING LAYOUT JT DL/SL
PROJECT NO. MRK-23007421-A0



GROUND FLOOR DEMOLITION POWER AND SYSTEMS LAYOUT E-201 SCALE:



SECOND FLOOR DEMOLITION POWER AND SYSTEMS LAYOUT E-201 SCALE:

GENERAL NOTES:

- ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN EXISTING UNLESS NOTED OTHERWISE.
- ALL EXISTING POWER , DATA, COMMUNICATIONS, SECURITY, AV ETC. SERVICES AND DEVICES TO REMAIN AS EXISTING IN ALL THE AREAS UNLESS SPECIFICALLY NOTED TO BE REMOVED/RELOCATED.
- SECURITY VENDOR (SECURITAS) TO TEMPORARILY DISCONNECT EXISTING SECURITY DEVICES FROM ALL THE EXISTING DOORS BEING REPLACED AND RECONNECT TO THE NEW DOORS AT THE SAME LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF THE DOORS.
- ALL THE LIFE SAFETY EQUIPMENT, INCLUDING EMERGENCY LIGHTING, EXIT SIGNS, SHALL BE DISCONNECTED FROM EXISTING PANEL AND RECONNECTED TO THE LIFE SAFETY PANEL 'LS'.
- ALL THE SECURITY RELATED WORK SHALL BE PERFORMED BY SECURITAS. CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS.
- 6. ALL FIRE ALARM DEVICES SHALL BE REMOVED UNLESS NOTED OTHERWISE.

KEY NOTES:

- (1) EXISTING AV SPEAKERS SHALL BE DISCONNECTED AND REMOVED TEMPORARILY AND TO BE RE-INSTALLED IN THE NEW CEILING AS SHOWN ON DRAWING E-301. EXTEND WIRING/CONDUIT AS REQUIRED.
- ② EXISTING POWER OUTLETS UNDER MILLWORK SHALL BE DISCONNECTED AND WIRING SHALL BE REMOVED TO THE NEAREST JUNCTION BOX AND MADE SAFE.
- 3 EXISTING PANIC BUTTON UNDER THE MILLWORK TO BE TEMPORARILY DISCONNECTED, MADE SAFE AND RELOCATED TO NEW MILLWORK AS SHOWN ON DRAWING E-301. CONTRACTOR TO EXTEND WIRING/CONDUIT TO SUIT.
- EXISTING ELECTRICAL CONNECTIONS (IF ANY) FOR SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THIS DOOR SHALL BE DISCONNECTED AND MADE SAFE. CONTRACTOR TO RECONNECT EXISTING SERVICES TO THE NEW DOOR AS SHOWN ON DRAWING E-301.
- EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THE OVERHEAD DOOR TO BE DISCONNECTED AND MADE SAFE. CONTRACTOR TO RECONNECT EXISTING CONNECTIONS TO THE NEW DOORS AS SHOWN ON DRAWING E-301.
- EXISTING CAMERA TO BE DISCONNECTED TEMPORARILY AND RECONNECTED AT THE NEW CEILING AT SAME LOCATION.
- (7) EXISTING WIFI ROUTERS TO BE DISCONNECTED BY OTHERS AND RELOCATE TO THE NEW CEILING AS SHOWN ON DRAWING E-301.
- (8) EXISTING ELECTRICAL CONNECTION FOR ELECTRIC BASEBOARD HEATER TO BE TEMPORARILY DISCONNECTED AND RE-INSTALLED AS SHOWN IN DRAWING E-301. COORDINATE WITH MECHANICAL CONTRACTOR.
- CONTRACTOR TO VERIFY ON-SITE IF THIS DISCONNECT IS OPERATIONAL AND SERVING ANY EXISTING OPERATIONAL EQUIPMENT. IF NOT, CONTRACTOR TO DISCONNECT AND REMOVE BACK TO THE SOURCE, OTHERWISE RELOCATE THE DISCONNECT TO EXISTING STORAGE 50.
- © EXISTING POWER OUTLET ON THE MILLWORK SHALL BE DISCONNECTED AND WIRING SHALL BE REMOVED TO THE NEAREST JUNCTION BOX AND MADE SAFE.
- EXISTING POWER OUTLETS IN THE CHANGEROOM SHALL BE TEMPORARILY DISCONNECTED TO ACCOMMODATE ARCHITECTURAL SCOPE OF WORK AND RECONNECTED AT THE SAME LOCATION.

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

ISSUES

NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 2
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 2
3	ISSUED FOR BUILDING PERMIT	01 NOV. 2
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 2
5	ISSUED FOR TENDER	05 JUL. 20

REVISIONS



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



ARCHITECTS 220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5

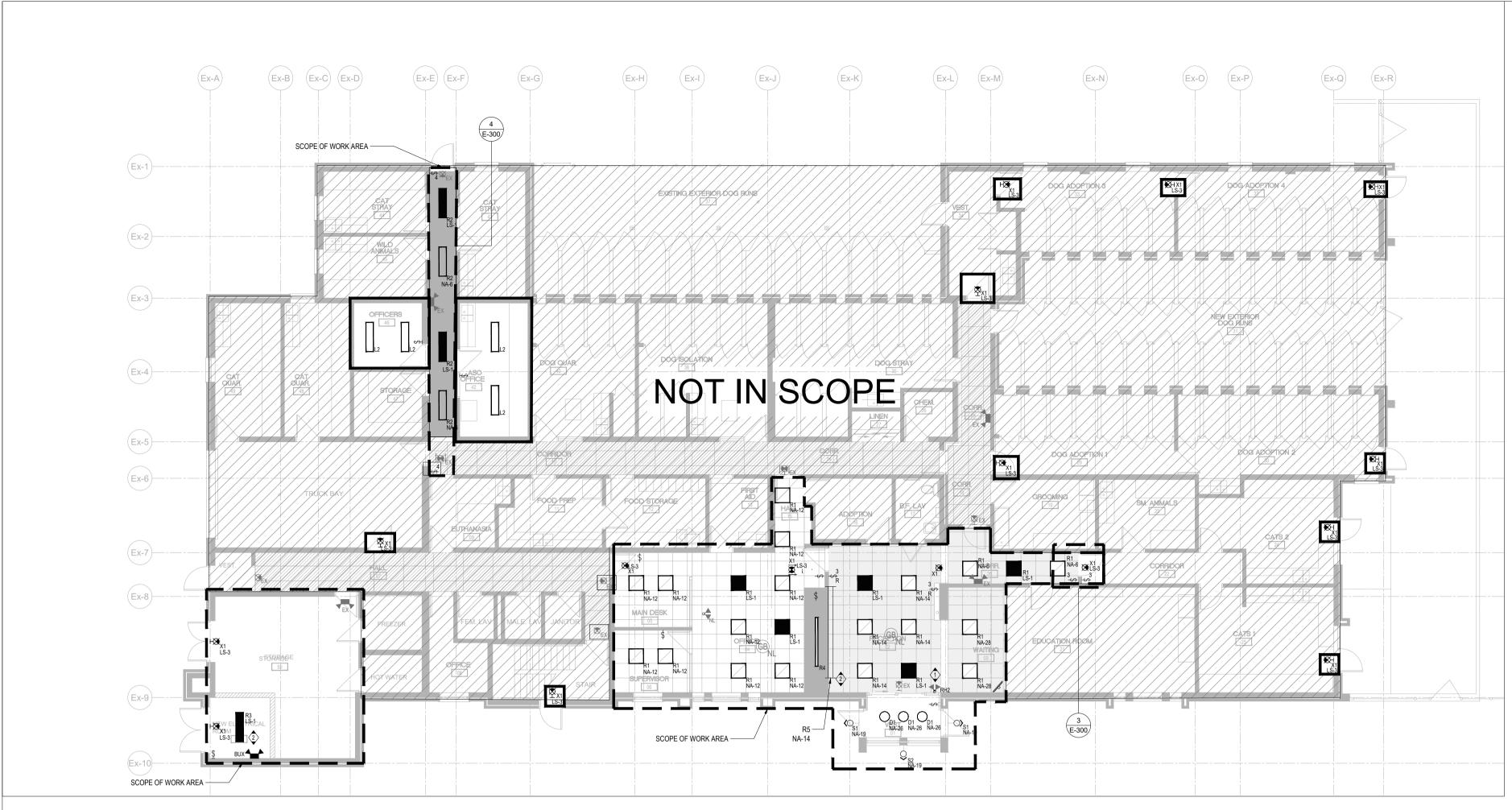


EXP SERVICES INC. EXP SERVICES INC.

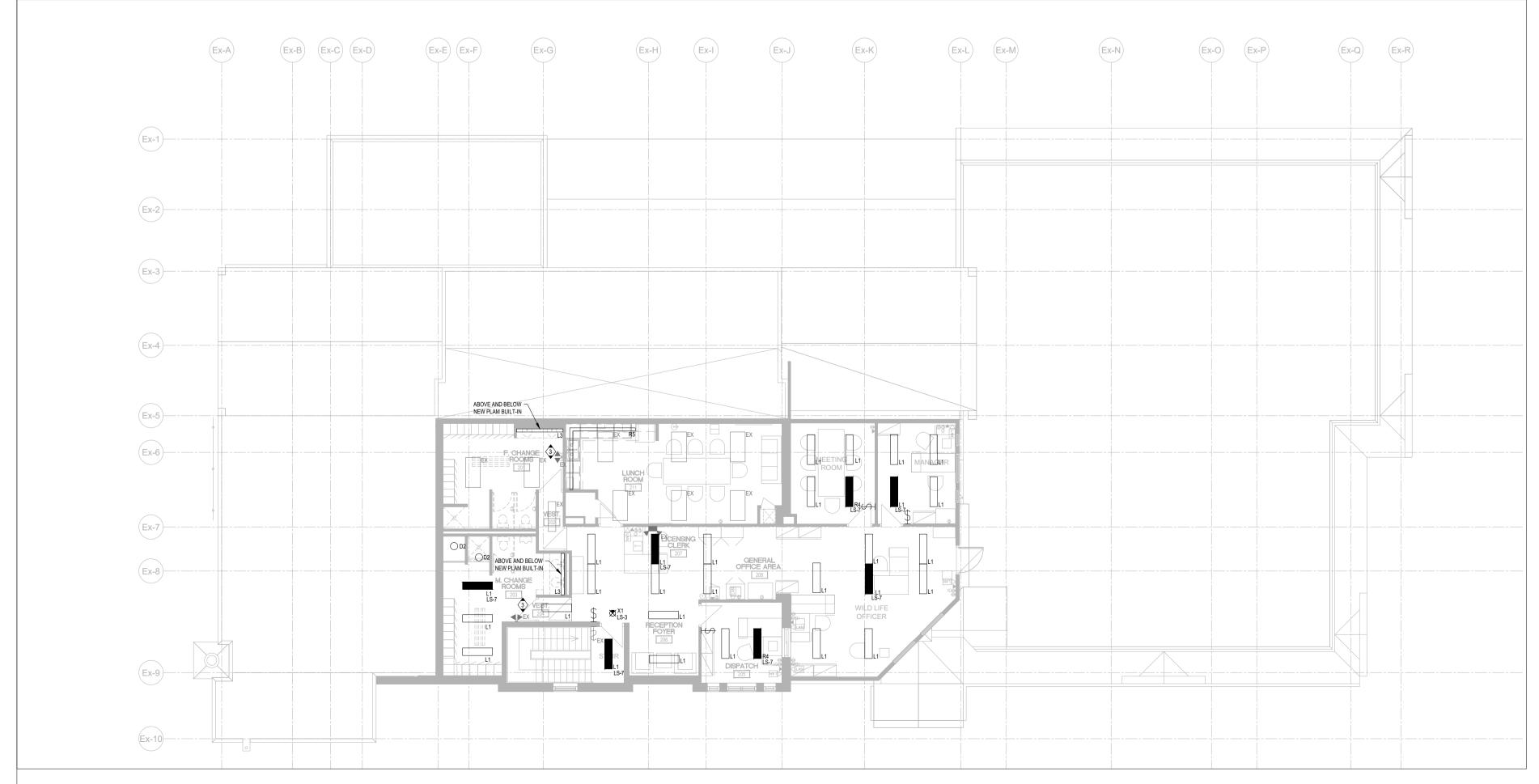
DRAWING LIST **DEMOLITION POWER & SYSTEM**

LAYOUT JT DL/SL PROJECT NO. MRK-23007421-A0

1:125



1 GROUND FLOOR PROPOSED LIGHTING LAYOUT
E-300 SCALE:



2 SECOND FLOOR PROPOSED LIGHTING LAYOUT SCALE:

GENERAL NOTES:

- ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN UNLESS NOTED OTHERWISE.
- NEW LIGHTING FIXTURES TO BE CONNECTED TO THE EXISTING WIRING AND CONTROLS. CONTRACTOR TO EXTEND WIRING AND CONDUIT TO SUIT NEW LAYOUT.
- ALL THE LIFE SAFETY EQUIPMENT INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING AND EXIT SIGNAGE TO BE CONNECTED TO THE NEW LIFE SAFETY PANEL 'LS'. CONTRACTOR TO EXTEND BRANCH WIRING AND CONDUITS TO SUIT.
- REUSE CIRCUIT OBTAINED FROM DEMOLITION OF LIGHTING FOR NEW LIGHT FIXTURE AND BATTERY UNIT. REWORK AND EXTEND CONDUIT AND WIRING AS REQUIRED.

KEYNOTES:

- REMOTE HEAD SHALL BE CIRCUITED TO EXISTING BATTERY UNIT CIRCUIT IN THE
- R5 STRIP LIGHTING TO BE INSTALLED AROUND RAISED COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS.
- 3 REINSTALL EXISTING REMOTE HEADS IN THE SAME LOCATION AFTER COMPLETION OF ARCHITECTURAL WORK.



3 CORRIDOR 20 EXIT SIGN (REFERENCE PHOTO)

E-300 SCALE:



4 CORRIDOR 10 & 41 EXIT SIGN (REFERENCE PHOTO)
SCALE:



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ISSUES NO. DESCRIPTION ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW 25 AUG. 2023 ISSUED FOR 50% CLIENT REVIEW 13 OCT. 2023 ISSUED FOR 90% CLIENT REVIEW 10 NOV. 2023 05 JUL. 2024 ISSUED FOR TENDER

REVISIONS

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ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



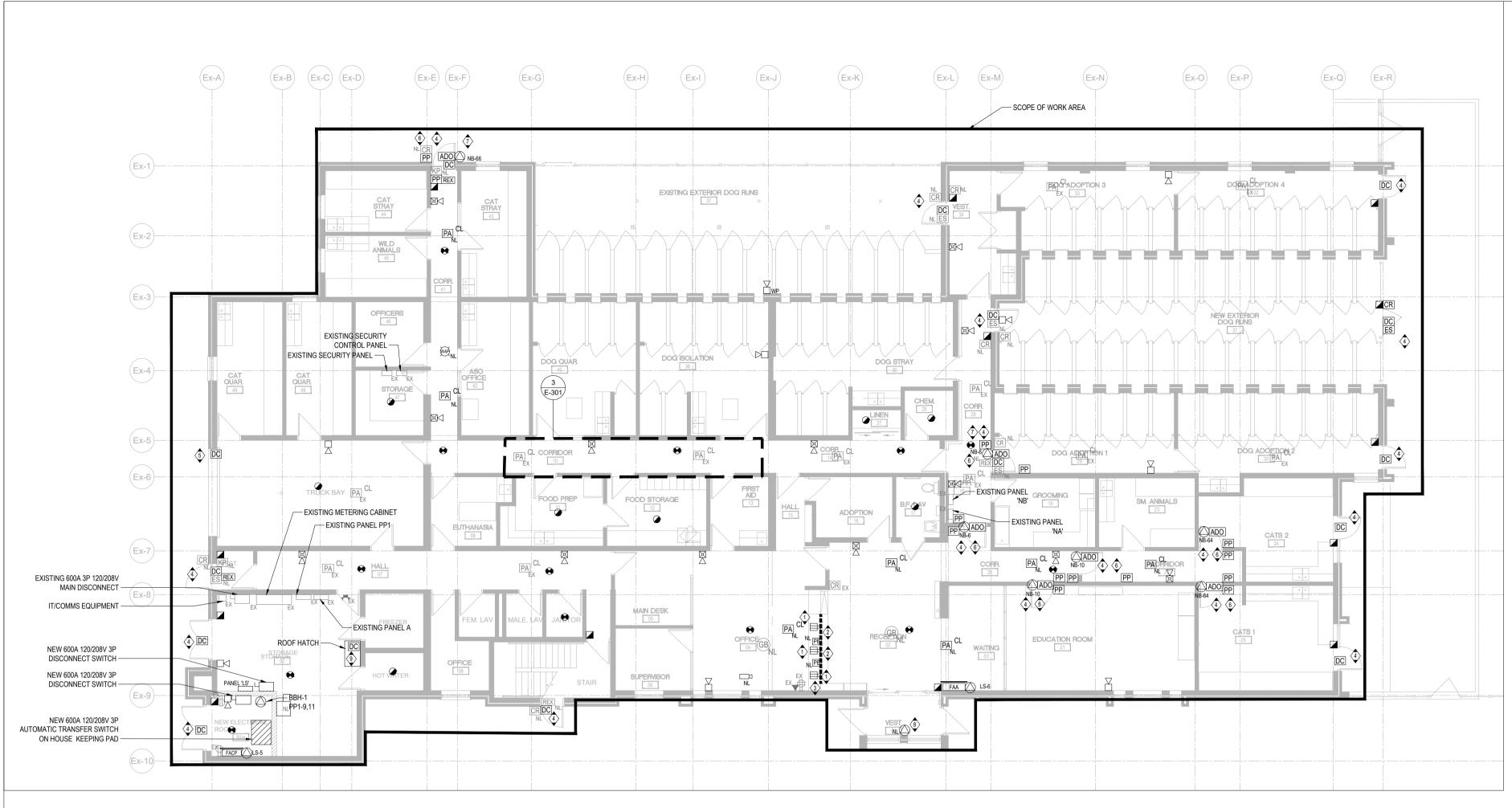
220 DUNCAN MILL RD. SUITE 319 TORONTO, ONTARIO M3B 3J5

EXP SERVICES INC. EXP SERVICES INC.

DRAWING LIST

PROPOSED LIGHTING LAYOUT

PROJECT NO. MRK-23007421-A0 E-300 SCALE AS SHOWN



GROUND FLOOR PROPOSED POWER AND SYSTEMS LAYOUT E-301 SCALE:



SECOND FLOOR PROPOSED POWER AND SYSTEMS LAYOUT E-301 SCALE:

GENERAL NOTES:

- ALL EXISTING SERVICES AND EQUIPMENT SHALL REMAIN UNLESS NOTED OTHERWISE.
- ALL EXISTING POWER, DATA, COMMUNICATIONS, SECURITY, AV ETC. SERVICES AND DEVICES TO REMAIN AS EXISTING IN ALL THE AREAS UNLESS SPECIFICALLY NOTED TO BE REMOVED/RELOCATED/UPGRADED.
- SECURITY VENDOR (SECURITAS) TO RECONNECT ALL THE EXISTING SECURITY DEVICES FOR THE DOORS BEING REPLACED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF THE DOORS.
- ELECTRICAL CONTRACTOR TO ENGAGE THE BASE BUILDING SECURITY CONTRACTOR (SECURITAS) FOR ANY SECURITY/ACCESS CONTROL WORK WITHIN THE SCOPE OF THIS PROJECT. PROVIDE POWER CONNECTIONS AND ROUGH-INS FOR NEW SECURITY EQUIPMENT INCLUDING CARD READER, ELECTRICAL STRIKE, DOOR CONTACT AND REQUEST TO EXIT. COORDINATE WITH DOOR HARDWARE CONSULTANT AND SECURITY CONTRACTOR FOR EXACT REQUIREMENTS AND PROVIDE PROVISIONS ACCORDINGLY.
- ALL THE SECURITY RELATED WORK TO BE PERFORMED BY SECURITAS. CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS. ALL NEW SECURITY DEVICES TO BE CONNECTED TO THE EXISTING SECURITY HEAD END EQUIPMENT LOCATED IN STORAGE ROOM 47.

KEY NOTES:

- PROVIDE NEW WIRING FOR THE NEW POWER OUTLETS IN THE MILLWORK. CONTRACTOR TO EXTEND CONDUIT FROM EXISTING JUNCTION BOX TO SUIT.
- EXISTING PANIC BUTTON TO BE RECONNECTED AT THIS LOCATION UNDER THE MILLWORK. CONTRACTOR TO EXTEND WIRING/CONDUITS TO SUIT. EXACT LOCATION OF PANIC BUTTON TO BE COORDINATED WITH CLIENT ON-SITE.
- CONTRACTOR TO PROVIDE NEW FACEPLATE FOR THE DATA OUTLETS AND ENSURE DATA OUTLETS ARE OPERATIONAL, OTHERWISE RE-WORK TO MAKE THE DATA OUTLETS OPERATIONAL.
- EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER LOW VOLTAGE DEVICES ON THIS DOOR TO BE RECONNECTED TO THE NEW DEVICES. EXACT LOCATION OF THE DEVICES TO BE COORDINATED ON-SITE. EXTEND WIRING/CONDUITS AS REQUIRED TO MAKE ALL THE NEW DEVICES OPERATIONAL.
- EXISTING ELECTRICAL CONNECTIONS FOR POWER, SECURITY, ACCESS CONTROL AND OTHER ASSOCIATED DEVICES FOR THE OVERHEAD DOOR TO BE RECONNECTED TO THE NEW OVERHEAD DOOR. CONTRACTOR TO COORDINATE WITH SUPPLIER FOR POWER REQUIREMENTS AND PROVIDE ACCORDINGLY. EXTEND CONDUIT, WIRING AND PROVIDE ASSOCIATED EQUIPMENT TO MAKE THE NEW OVERHEAD DOOR OPERATIONAL PER CLIENT'S NEEDS. EXACT LOCATION OF DEVICES TO BE COORDINATED ON-SITE.
- PROVIDE NEW POWER CONNECTION FOR AUTOMATIC DOOR OPERATION. PROVIDE ROUGH-INS FOR WAVE TO OPEN BUTTON FOR NEW ADO. EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND CLIENT ON-SITE.
- NEW AUTOMATIC DOOR OPERATOR SHALL BE INTEGRATED BY SECURITAS WITH EXISTING CARD READER AND ELECTRICAL STRIKE RELAYS. CONTRACTOR TO PROVIDE A 21mm CONDUIT ALONG WITH PULL STRING FROM HEAD END EQUIPMENT IN STORAGE ROOM 47 TO THIS DOOR. PROVIDE A 4"X4" JUNCTION BOX ABOVE DOOR AND TERMINATE THE CONDUIT IN THE JUNCTION BOX.
- 8 EXISTING ELECTRIC BASEBOARD HEATER TO BE RECONNECTED AT THIS LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR ON SITE.
- (9) CONTRACTOR TO PROVIDE 21mm CONDUIT ALONG WITH PULL STRING AND 4"X4" JUNCTION BOX FROM THE ROOF HATCH TO SECURITY PANEL IN STORAGE ROOM
- REUSE EXISTING CIRCUIT FOR THE NEW RECEPTACLES IN THE NEW MILLWORK, CONTRACTOR SHALL PROVIDE NEW WIRING AND CONDUIT FROM THE NEAREST JUNCTION BOX TO SUIT.
- REINSTALL EXISTING POWER OUTLETS WITH NEW FACEPLATES IN THE SAME LOCATION AFTER COMPLETION OF ARCHITECTURAL WORK.



CORRIDOR 10 SMOKE DETECTOR (REFERENCE PHOTO) E-301



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4	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 20
5	ISSUED FOR TENDER	05 JUL. 202

REVISIONS



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



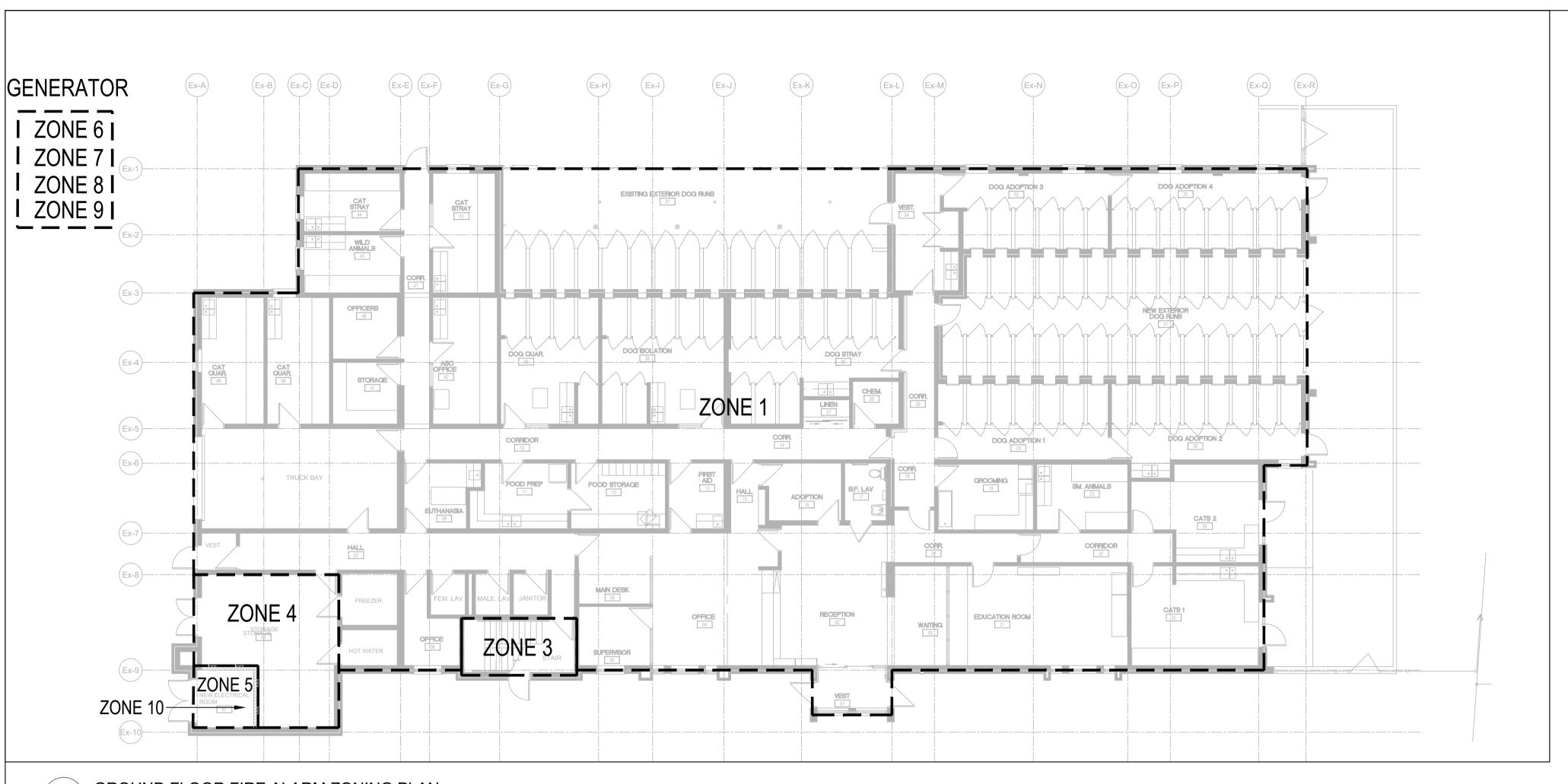
220 DUNCAN MILL RE SUITE 319 TORONTO, ONTARIO M3B 3J5



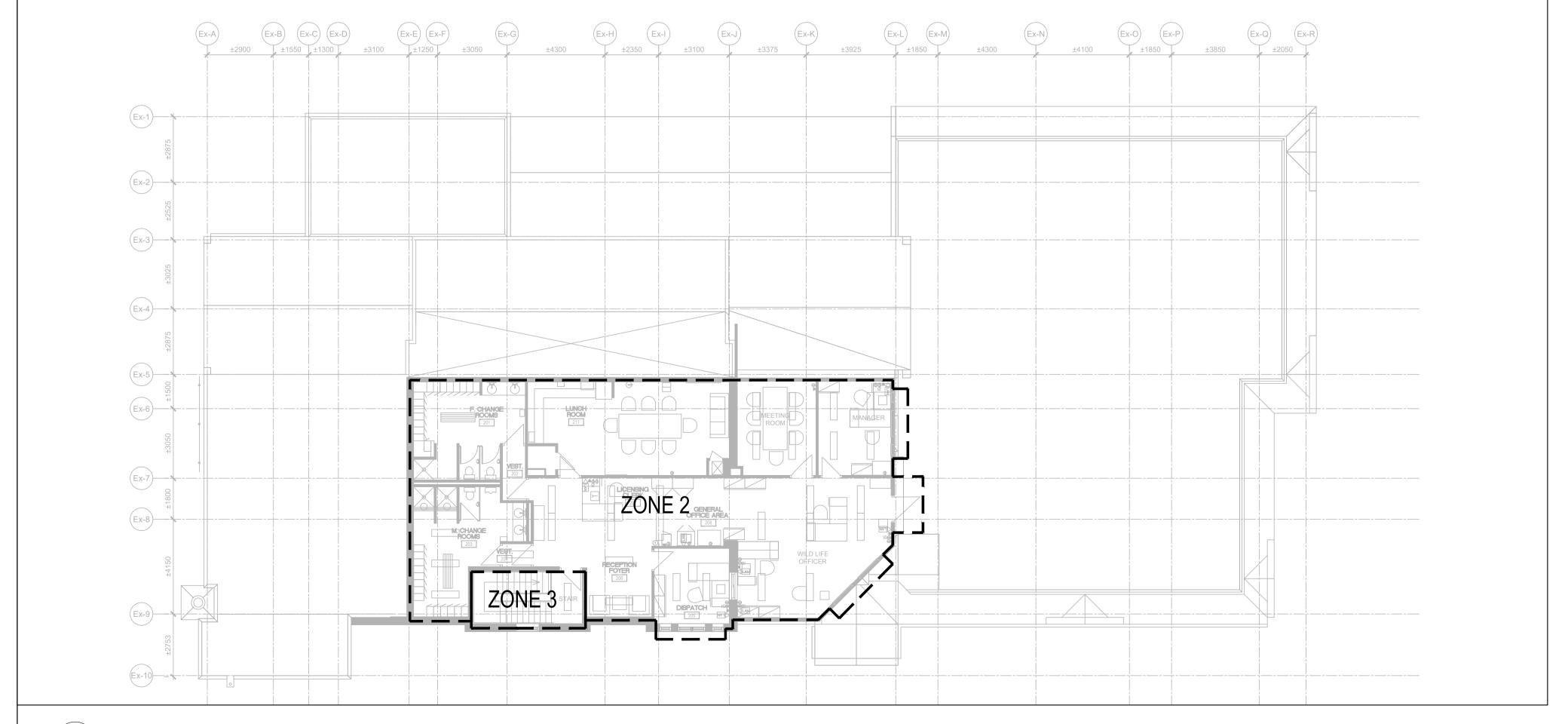
EXP SERVICES INC EXP SERVICES INC.

DRAWING LIST PROPOSED POWER AND SYSTEM LAYOUT

MRK-23007421-A0 AS SHOWN



1 GROUND FLOOR FIRE ALARM ZONING PLAN
E-501 SCALE: 1:125



2 SECOND FLOOR FIRE ALARM ZONING PLAN
E-501 SCALE: 1:125

		FIRE	E ALA	ARM S	CHE	DULE
	ALARM INITIA	ATION ZONE	NOTIFICAT	TION ZONE	Щ	
ZONING	HEAT/SMOKE DETECTOR	MANUAL PULL STATION	EVC HORN/ SPEAKER	STROBE LIGHT	AUXILIARY CONTACTS/TROUBLE	DESCRIPTION
ZONE 1	Х	Х	Х	Х		GROUND FLOOR
ZONE 2	Х	Х	Х	Х		SECOND FLOOR
ZONE 3	Х	Х	Х	Х		STAIRCASE
ZONE 4	Х	Х				STORAGE ROOM
ZONE 5	X	Х				ELECTRICAL ROOM
ZONE 6					Х	GENERATOR NOT ON AUTO
ZONE 7					Х	GENERATOR LOW BATTERY
ZONE 8					Х	GENERATOR FAILURE TO START
ZONE 9					Х	SUPERVISORY FOR MAIN GENERATOR GAS VALVE
ZONE 10					Х	ATS SUPERVISORY

- FIRE ALARM ZONE SCHEDULE IS SCHEMATIC ONLY. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORK FOR FULL ZONES BASED ON COORDINATION FOR ALL THE REQUIRED SYSTEMS.
- INCLUDE ALL ITEMS NECESSARY TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION AND NECESSARY FOR COMPLETE AND OPERATION FIRE ALARM SYSTEM.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL NEW SYSTEM IS COMPLETELY INSTALLED, VERIFIED AND OPERATIONAL. AFTER NEW SYSTEM IS OPERATIONAL, REMOVE REDUNDANT PANELS, DEVICES, WIRING
- PROVIDE 20% SPARE ZONES FOR FUTURE PROVISIONS.



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ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4





EXP SERVICES INC EXP SERVICES INC.

DRAWING LIST

FIRE ALARM ZONING

MRK-23007421-A0 1:125

					LI	GHT	ING I	LUMI	NAIR	E SC	HED	ULE				
					CEILIN OUNT		WAL	L MOL	INTED	ED	<u> </u>			VOL	TAGE	
TYPE/ SYMBOL	BASE MANUFACTURER (AS SPECIFIED)	LOCATION	CATALOGUE NUMBER	SURFACE	RECESSED	SUSPENDED	SURFACE	RECESSED	BRACKET	FLOOR MOUNTED	POLE MOUNTED	WATTAGE	COLOUR TEMP.	120V	347V	REMARKS
R1	SIGNIFY	ENTRANCE LOBBY, OFFICES AND CORRIDOR	2FPZ38L840-2-DS-UNV-DIM		Х							34W 3800LUMENS	4000K 80CRI	х		
R2	SIGNIFY	CORRIDOR	1FPZ38B840-4-DS-UNV-DIM		X							30W 3800LUMENS	4000K 80CRI	X		
₹3	PEERLESS	ELECTRICAL ROOM	AP2W-4-42-40-A2-LA-P-S-MV			Х						34W 4200LUMENS	4000K 80CRI	X		
₹4	SIGNIFY	COUNTER	1FPZ38B840-8-DS-UNV-DIM	Х	Х							30W 3800LUMENS	4000K 80CRI	х		
₹5	ELITE	COUNTER	LB102-XX-24V-RGB/W-LB-2819S-ELG-200				Х					9W/FT		Х		
S1	LUMINII	ENTRANCE ABOVE SIGNAGE	RUNWW-30-HE48MO-40K-C-4-SA				Х					8.75W 617.5LUMENS	4000K 92CRI	Х		
S2	LUMINII	ENTRANCE ABOVE SIGNAGE	RUNWW-70-HE48MO-40K-C-4-SA				Х					20.5W 1440LUMENS	4000K 92CRI	х		
_1	SIGNIFY	GENERAL AREAS	OWL440L840-UNV-DIM	Х								30W 4200LUMENS	4000K 80CRI	X		
_2	VISIONEERING	GENERAL AREAS	LSVA24-LED840K042LUNV-XXXXX	Х								47W 4000LUMENS	4000K 80CRI	X		
L3	LUMINII	MALE CHANGE ROOM	LL30-41K-F-M-XX	Х								2.5W/FT 200LUMEN/FT	4000K 80CRI	Х		
D1	LITELINE	ENTRY VESTIBULE	SLMPRO8-40K-C-WH		Х							33W 3130LUMENS	4000K 80CRI	X		
02	LITELINE	MALE CHANGEROOM	DL4-12W-WH	Х								12W 900LUMENS	4000K 80CRI	X		
X1	LUMACELL	THROUGHOUT THE BUILDING	LA3WS	Х			х					2.5W		X		EXIT SIGN TO BE SELF POWERED WITH 120 MINUTES BACK UP
RH2	BEGHELLI	DUAL REMOTE HEADS	BTMR-MR16 LED				Х					7W		X		
BUX	BEGHELLI	BATTERY PACK WITH DUAL REMOTE HEADS	NV-6-72-2BTMR-LED-MR16-120/347 V				Х					72W		X		

NOTES:

- 1. ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/DESIGNER PRIOR TO ORDERING LUMINAIRES.
- 2. ALL LUMINAIRES SHALL BE CSA APPROVED.
- CONTRACTOR TO PROVIDE MOUNTING ACCESSORIES AND HARDWARE TO SUIT CEILING AND WALL FINISHES.
 PROVIDE APPROVED EQUAL FOR ENGINEER'S REVIEW DURING SHOP DRAWINGS REVIEW.
- 5. PROVIDE ACCESSORIES INCLUDING DRIVERS AND STEP-DOWN TRANSFORMERS AS REQUIRED TO MAKE A WORKING SYSTEM.

ISS	SUES	
NO.	DESCRIPTION	DATE
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2	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 202
3	ISSUED FOR BUILDING PERMIT	01 NOV. 202
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REVISIONS PROJECT



ANIMAL SERVICES CENTRE

RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



EXP SERVICES INC. EXP SERVICES INC.

DRAWING LIST

LUMINAIRE SCHEDULE

JT CHECKED DL/SL E-601

PROJECT NO. MRK-23007421-A0 N.T.S.

JPPLY FROM: 600A MAIN DISCONNED JOUNTING: SURFACE NCLOSURE: ESCRIPTION YLON SIGNAGE RECEPTACLES ECEPTACLE RM 08 EW OUTDOOR PYLON SIGNAGE PARE BH-1	LOAD 0.5 kW	BKR	PHASES: WIRES:		3ф 4W			MAIN TYPE:
NCLOSURE: ESCRIPTION YLON SIGNAGE RECEPTACLES ECEPTACLE RM 08 EW OUTDOOR PYLON SIGNAGE PARE	0.5 kW				4W			
ESCRIPTION YLON SIGNAGE RECEPTACLES ECEPTACLE RM 08 EW OUTDOOR PYLON SIGNAGE PARE	0.5 kW							MAINS RATING: 600A
YLON SIGNAGE RECEPTACLES ECEPTACLE RM 08 EW OUTDOOR PYLON SIGNAGE PARE	0.5 kW							MCB RATING: N/A
ECEPTACLE RM 08 EW OUTDOOR PYLON SIGNAGE PARE			CCT		CCT	BKR		DESCRIPTION
EW OUTDOOR PYLON SIGNAGE PARE	2.5.1-34/		1	Α	2	15 A	(GARAGE DOOR
PARE		15 A	3	В	4		— —.	DOOF TOD COMPENSING UNIT HOU SH
	2.5 kW		5	Α	6	80 A		ROOF TOP CONDENSING UNIT "CU-2"
BH-1		20 A	7	В	8			
	1.5 kW	15 A	9	Α	10	15 A		SPARE
			11	В	12	15 A		SPARE
0.140.05550.0		20.4	13	Α	14	20 A	9	SPARE
OMPRESSOR		20 A	15	В	16			
			17	Α	18			
KHAUST FAN 'EF-4A'		15 A	19	В	20	80 A		ROOF TOP CONDENSING UNIT "CU-1"
REMATORIUM COMPUTRER		20 A	21	Α	22			
LECTRIC FAN FORCED HEATER WEST		20 A	23	В	24	15 A		CREMATORIUM CONTROL PANEL &
EST			25	Α	26			EXHAUST FAN (ROOF)
OOFTOP MAINTENANCE RECEPTACLE		20 A	27	В	28	15 A		WALK-IN FREEZER DRAIN LINE HEAT TR
ANEL IN CREMATORIUM		30A	29	Α	30	15 A	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WALK-IN FREEZER DOOR PANEL INCLU
			31	В	32		,	WALK-IN FFREEZER REMOTE
LECTRIC FAN FORCED HEATER STAIR		15 A	33	Α	34	15 A		CONDENSING UNIT
			35	В	36			
			37	Α	38	15 A		WALK-IN FREEZER EVAPORATOR
			39	В	40	1371		COIL/FANS
ANEL "B"		150 A	41	Α	42		9	SPACE
		1507	43	В	44			
			45	Α	46	60 A		OUTSIDE TRAILER
			47	В	48			
			49	Α	50			
			51	В	52	60 A		OUTSIDE TRAILER
ANEL "NB"		150 A	53	Α	54			
ANLE IND		130 A	55	В	56			
			57	Α	58	60 A		CREMATORIUM MAIN POWER
			59	В	60			
			61	Α	62			
			63	В	64	40		ROOF TOP UNIT 'RTU-1'
ANEL "NA"		150 A	65	Α	66			
NITE IN		1507	67	В	68			
			69	Α	70	70		ROOF TOP UNIT 'RTU-2'
			71	В	72			
			73	Α	74			
			75	В	76	50	r	MAKEUP AIR UNIT 'MUA-1'
ANEL "A"		150 A	77	Α	78			
TIVEL A		130 A	79	В	80			
			81	Α	82	50	r	MAKEUP AIR UNIT 'MUA-2'
			83	В	84			
		TO	ΓAL LOAD :		4.5 kW			

LOCATION:	GROUND FLOOR - CORR	IDOR 18		VOLTS:		120/208V			A.I.C. RATING: 22K
SUPPLY FROM:	PANEL PP1			PHASES:		3ф			MAIN TYPE:
MOUNTING:	SURFACE			WIRES:		4W			MAINS RATING: 225A
ENCLOSURE:									MCB RATING: N/A
DESCRIPTION		LOAD	BKR	ССТ		ССТ	BKR	LOAD	DESCRIPTION
PARKING AREA I	IGHTING		20 A	1	Α	2	15 A		NIGHT LIGHTING
PARKING AREA I	IGHTING		20 A	3	В	4	15 A		LIGHTING FOR OFFICES
SPARE			20 A	5	Α	6	15 A		LIGHTING FOR ALL CORRIDORS
PARKING AREA I	IGHTING		20 A	7	В	8	15 A		LIGHTING FOR OFFICES #26, 35, 38, 40
PARKING AREA I	IGHTING		15 A	9	Α	10	15 A		LIGHTING FOR OFFICES
EXTERIOR LIGHT	ING		15 A	11	В	12	15 A		LIGHTING FOR OFFICES #04, 05, 06
EXTERIOR LIGHT	ING		15 A	13	Α	14	15 A		LIGHTING FOR OFFICE #02 (RECEPTION)
PRINTER			15 A	15	В	16	15 A		LIGHTING FOR OFFICES #03, 21
POWER FOR SEC	URITY CAMERA		15 A	17	Α	18	15 A		LIGHTING FOR OFFICES #19, 23, 24, 25
VESTIBULE WAL	L WASH		15 A	19	В	20	20 A		RECEPTACLES
PHOTOCELL			15 A	21	Α	22	15 A		LIGHTING FOR OFFICES #29, 30, 32, 33
SPACE				23	В	24	15 A		LIGHTING FOR OFFICE #31
SPACE				25	Α	26	15 A		LIGHTING FOR OFFICE #01 (WEST)
SPACE				27	В	28	15 A		EXIT LIGHTING 08, 10, 14, 41, TRUCK BAY
SPACE				29	Α	30	15 A		EXIT LIGHTING 18, 20, 22, 29, 30, 32, 33, 34
SPACE				31	В	32			SPACE
SPACE				33	Α	34			SPACE
SPACE				35	В	36			SPACE
SPACE				37	Α	38			SPACE
SPACE				39	В	40			SPACE
SPACE				41	Α	42			SPACE
			TOT	AL LOAD :		0.0 kW			

LOCATION: GROUND FLOOR - CRI	EMATORIUN	√l	VOLTS:		120/208V			A.I.C. RATING: 10K
SUPPLY FROM: PANEL PP1			PHASES:		3ф			MAIN TYPE:
MOUNTING: SURFACE			WIRES:		4W			MAINS RATING: 225A
ENCLOSURE:								MCB RATING: N/A
DESCRIPTION	LOAD	BKR	ССТ		CCT	BKR	LOAD	DESCRIPTION
LIGHTING		15 A	1	Α	2	15 A		RECEPTABLE
TELEPHONE PLUG		15 A	3	В	4	15 A		SPLIT RECEPTACLE GARAGE
TELEPHONE PLOG		13 A	5	Α	6	15 A		SPLIT RECEPTACLE GARAGE
LT PLUG IN BACK HALLWAY		15 A	7	В	8	20 A		FREEZER
SPARE		15 A	9	Α	10	20 A		FREEZER
INCINERATOR ROOM LIGHTS		15 A	11	В	12	20 A		SPARE
SPARE		15 A	13	Α	14	20 A		GARAGE PLUG
SPARE		15 A	15	В	16	20 A		FREEZER GARAGE
TIMER OUTDOOR LIGHTS		15 A	17	Α	18	15 A		SPARE
TIMER OUTDOOR LIGHTS		15 A	19	В	20			
EXTERIOR WALL LIGHTS ABOVE DOOR		15 A	21	Α	22	20 A		GARAGE PLUG
SPARE		15 A	23	В	24			
BACK DOOR HEATERS		30 A	25	Α	26	15 A		EVAPORATOR FANS
BACK DOOK HEATERS		30 A	27	В	28	15 A		EVAPORATOR FANS
HEATERS		30A	29	Α	30	15 A		RESEPTIC
HEATERS		SUA	31	В	32	15 A		EXHAUST FANS
FRONT DOOR HEATERS		30 A	33	Α	34	15 A		NIGHT LITE #1
FRONT DOOR HEATERS		30 A	35	В	36	15 A		SPARE
EXHAUST FAN #5		15 A	37	Α	38	15 A		EAST EXIT
TA CONTROLS		15 A	39	В	40	15 A		RED LTS
FMC		15 A	41	Α	42			SPACE
		TO	TAL LOAD :		0.0 kW			
NOTES:								

LOCATION: GROUND FLOOR - CORRI	DOR 18		VOLTS:		120/208V			A.I.C. RATING: 22K
SUPPLY FROM: PANEL PP1			PHASES:		3ф			MAIN TYPE:
MOUNTING: SURFACE			WIRES:		4W			MAINS RATING: 225A
ENCLOSURE:								MCB RATING: N/A
DESCRIPTION	LOAD	BKR	ССТ		ССТ	BKR	LOAD	DESCRIPTION
SECURITY PANELS		20 A	1	Α	2	15 A		RECEPTACLES GFCI OFFICE
SECURITY PANELS		20 A	3	В	4	15 A		RECEPTACLES GFCI OFFICE 28,34,CORR.1
RECEPTACLES GFCI OFFICE 44,45,48,49		20 A	5	Α	6	15 A		ADO
RECEPTACLES GFCI OFFICE 09,42,43		20 A	7	В	8	20 A		RECEPTACLES OFFICE 19,29,30
KENNEL #4		15 A	9	Α	10	15 A		ADO
RECEPTACLES OFFICE 46, 47, CORRIDOR 44		15 A	11	В	12	15 A		RECEPTACLES GFCI WEST 34
RECEPTACLES GFCI OFFICE 19		15 A	13	Α	14	15 A		RECEPTACLES OFFICE 21
EXHAUST FAN 'EF-5A'		20 A	15	В	16	15 A		RECEPTACLES GFCI OFFICE
CAT STRAY RECEPTACLE		15 A	17	Α	18	15 A		RECEPTACLES GFCI CORR.20 OFFICE
RECEPTACLES OFFICE 12		15 A	19	В	20	20 A		RECEPTACLES IG OFFICE 16(COUNTER),2
RECEPTACLES OFFICE 26,35,38,40		15 A	21	Α	22	15 A		RECEPTACLES OFFICE 21
RECEPTACLES OFFICE 12,13,14,CORRIDOR		15 A	23	В	24	15 A		RECEPTACLES IG OFFICE 08,03,04,TV
RECEPTACLES OFFICE 11(S.C.) KITCHEN		15 A	25	Α	26	15 A		RECEPTACLES IG OFFICE 04,05,06
RECEPTACLES SPLICE. OFFICE #11		15 A	27	В	28	15 A		RECEPTACLES OFFICE 04
RECEPTACLES SPLICE. OFFICE #11		15 A	29	Α	30	15 A		RECEPTACLES OFFICE 04,05,06
RECEPTACLES GFCI OFFICE 11		15 A	31	В	32	15 A		HEATER FOR MAIN ENTRANCE
RECEPTACLES SPLICE. OFFICE #11		15 A	33	Α	34	15 A		HEATER FOR MAIN ENTRANCE
RECEPTACLES SPLICE. OFFICE #11		15 A	35	В	36	15 A		EF OFFICE 17,19
RECEPTACLES OFFICE 11(S.C.)		15 A	37	Α	38			
HOT WATER HEATER 'DHWT-1' & BOILER 'BLR-1'		15 A	39	В	40	15 A		HEATER FOR CORR. 41
PUMPS 'P-1' & 'P-2'		15 A	41	Α	42	15 A		BAZZER
DOOR OPERATOR OFFICE 01		15 A	43	В	44	30 A		HEATER FOR WEST 34
DOOR OPERATOR OFFICE 01		15 A	45	Α	46	30 A		HEATER FOR WEST 54
SPARE		30 A	47	В	48	20 A		DRYER
3171112			49	Α	50	2071		DITTER
SPARE		15 A	51	В	52	20 A		SPARE
CAT ROOM AC-1		20 A	53	A	54			
			55	В	56	20 A		SPARE
CAT ROOM AC-2		20 A	57	A	58			
			59 61	В	60 62	20 A		SPARE
DOG AC-1		20 A	63	A B	64	15 A		ADO
KENNEL #2 GFI RECEPTACLES		20 A	65	A	66	15 A		ADO
			AL LOAD :		0.0 kW			1
NOTES:					0.0 KVV			

EXISTING PANEL B LOCATION: SECOUND FLOOR			VOLTS:		120/208V			A.I.C. RATING: 10K
SUPPLY FROM: PANEL PP1			PHASES:		3φ			MAIN TYPE:
MOUNTING: SURFACE			WIRES:		4W			MAINS RATING: 225A
ENCLOSURE:								MCB RATING: N/A
DESCRIPTION	LOAD	BKR	ССТ		ССТ	BKR	LOAD	DESCRIPTION
LIGHTING		15 A	1	Α	2	15 A		RECEPTABLE
LIGHTING		15 A	3	В	4	15 A		RECEPTABLE
LIGHTING		15 A	5	Α	6	15 A		RECEPTABLE
RECEPTION (COPY) & LIGHTING		20 A	7	В	8	15 A		RECEPTABLE
EXHAUST FAN 'EF-2'		15 A	9	Α	10	15.4		COLINTER BLLIC
MICROWAVE		15 A	11	В	12	15 A		COUNTER PLUG
EMERGENCY BATTERY		15 A	13	Α	14	15 A		COUNTER PLUG
DISHWASHER		15 A	15	В	16	15 A		COUNTER PLOG
BASEBOARD HEATER		15 A	17	Α	18	15 A		GFI PLUG
BASEBOARD HEATER		15 A	19	В	20	15 A		EXHAUST FAN 'EF-3'
SPARE		15 A	21	Α	22	15 A		HEATER
ELECTRIC HEAT		30 A	23	В	24	15 A		HEATER
ELECTRIC HEAT		30 A	25	Α	26	15 A		A/C UNIT DOG
ELECTRIC HEAT		20 A	27	В	28	15 A		A/C UNIT CAT
ELLETRIC FILAT		20 A	29	Α	30	15 A		SPARE
SPARE		30 A	31	В	32	15 A		ADMIN OFFICE PLUGS
or And		307	33	Α	34	137		SPARE
SPARE		15 A	35	В	36	15 A		SPLIT COUNTER PLUG
		137	37	Α	38	137		S. E. GOONTENT LOG
AUTOMATIC FAUCETS & FLUSH		15 A	39	В	40	15 A		SPLIT COUNTER PLUG
SPARE		15 A	41	Α	42	107		J. 2 3332
		TO	ΓAL LOAD :		0.0 kW			
NOTES: 1. CIRCUITS IN BOLD ARE NEW BREAKEI	oc .		<u> </u>		<u> </u>			

NEW PANEL LS	CE EO		VOLTS.		120/2004			A LC DATING. 10K
LOCATION: GROUND FLOOR - STORA	AGE 50		VOLTS:		120/208V			A.I.C. RATING: 10K
SUPPLY FROM: PANEL PP1			PHASES:		1ф			MAIN TYPE:
MOUNTING: SURFACE			WIRES:		3W			MAINS RATING: 100A
ENCLOSURE:								MCB RATING: N/A
DESCRIPTION	LOAD	BKR	CCT		ССТ	BKR	LOAD	DESCRIPTION
GROUND FLOOR EMERGENCY LIGHTING		20 A	1	Α	2	40.4		CENTERATOR LOAD CENTRE
EXIT SIGNS		15 A	3	В	4	40 A		GENERATOR LOAD CENTRE
FACP		15 A	5	Α	6	15 A		FAA
SECOND FLOOR EMERGENCY LIGHTING		20 A	7	В	8			SPACE
SPARE		15 A	9	Α	10			SPACE
SPARE		20 A	11	В	12			SPACE
SPARE		20 A	13	Α	14			SPACE
SPACE			15	В	16			SPACE
SPACE			17	Α	18			SPACE
SPACE			19	В	20			SPACE
SPACE			21	Α	22			SPACE
SPACE			23	В	24			SPACE
		TOT	AL LOAD :		0.0 kW	•		•
NOTES:								



ISS	SUES	
NO.	DESCRIPTION	DATE
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AU
2	ISSUED FOR 50% CLIENT REVIEW	13 OC
3	ISSUED FOR BUILDING PERMIT	01 NO
4	ISSUED FOR 90% CLIENT REVIEW	10 NO
5	ISSUED FOR TENDER	05 JUL

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RENOVATION PHASE-02 PROJECT

735 Central Parkway W, Mississauga, ON L5C 4H4



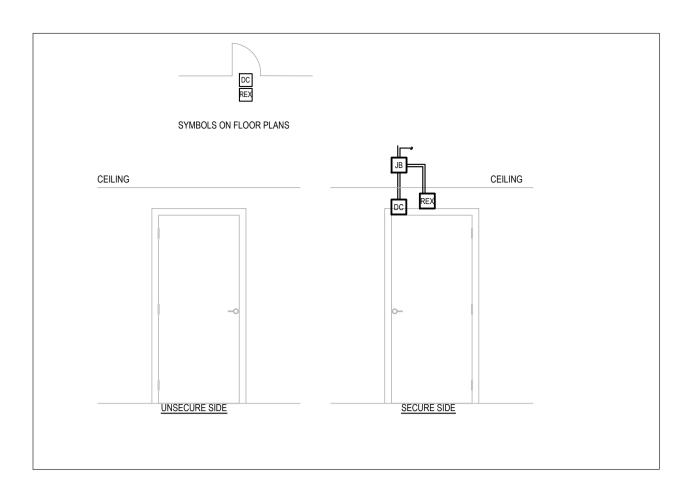
EXP SERVICES INC. MECHANICAL CONSULTANT

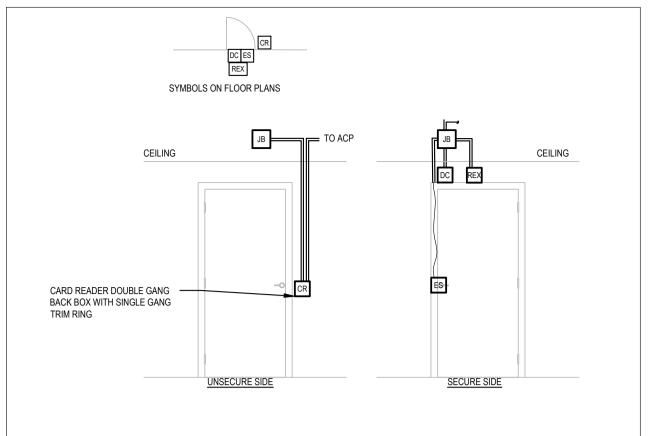
EXP SERVICES INC.

DRAWING LIST

PANEL SCHEDULE

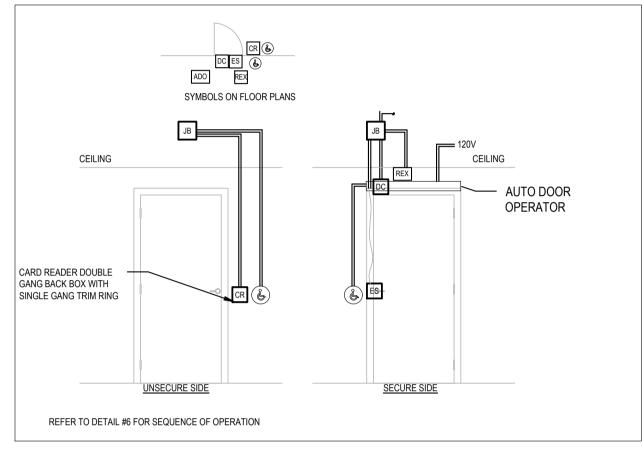
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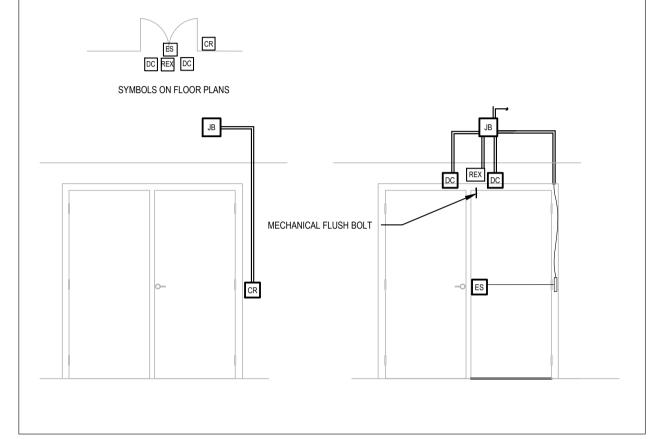


TYPICAL MONITORED DOOR

E-702 NTS

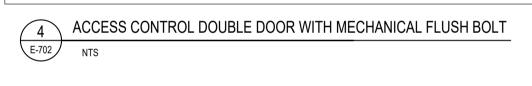


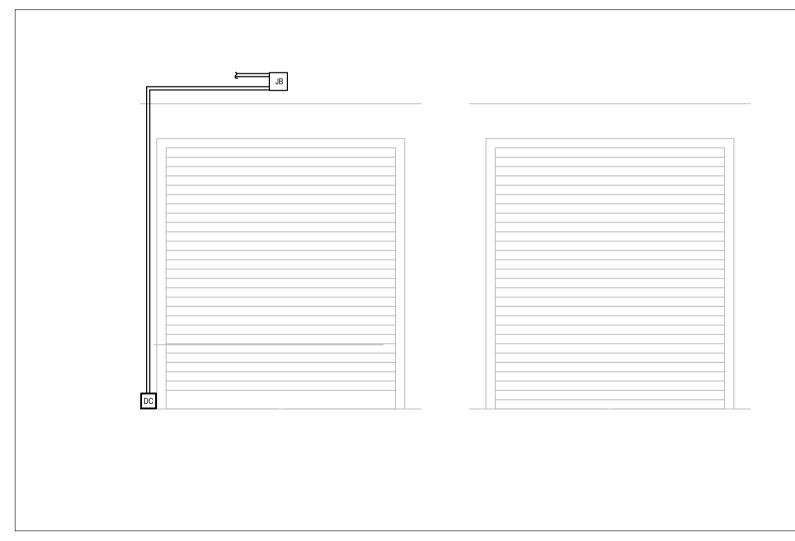
2 TYPICAL ACCESS CONTROL DOOR
E-702 NTS



TYPICAL ACCESS CONTROL AND ADO, SINGLE

E-702 NTS





5 OVERHEAD MONITORING DOOR DETAIL

E-702 NTS

GENERAL NOTES: ALL THE SECURITY RELATED WORK TO BE PERFORMED BY THE BASE BUILDING SECURITY VENDOR (SECURITAS). SECURITAS TO PROVIDE ALL THE SECURITY AND ACCESS CONTROL DEVICES INCLUDING BUT NOT LIMITED TO CARD READERS, RELAYS & INTERLOCKING BETWEEN CARD READERS AND AUTOMATIC DOOR OPERATORS AND REQUIRED CABLING FOR ALL THE SECURITY DEVICES. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-INS AND JUNCTION BOXES TO SUIT. ELECTRICAL CONTRACTOR TO COORDINATE AND SCHEDULE FOR DISCONNECTION AND RECONNECTION OF SECURITY DEVICES WITH SECURITAS AS REQUIRED.

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

ISSUES				
NO.	DESCRIPTION	DATE		
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG.		
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT.		
3	ISSUED FOR BUILDING PERMIT	01 NOV.		
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV.		
5	ISSUED FOR TENDER	05 JUL. 2		

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RENOVATION PHASE-02 PROJECT

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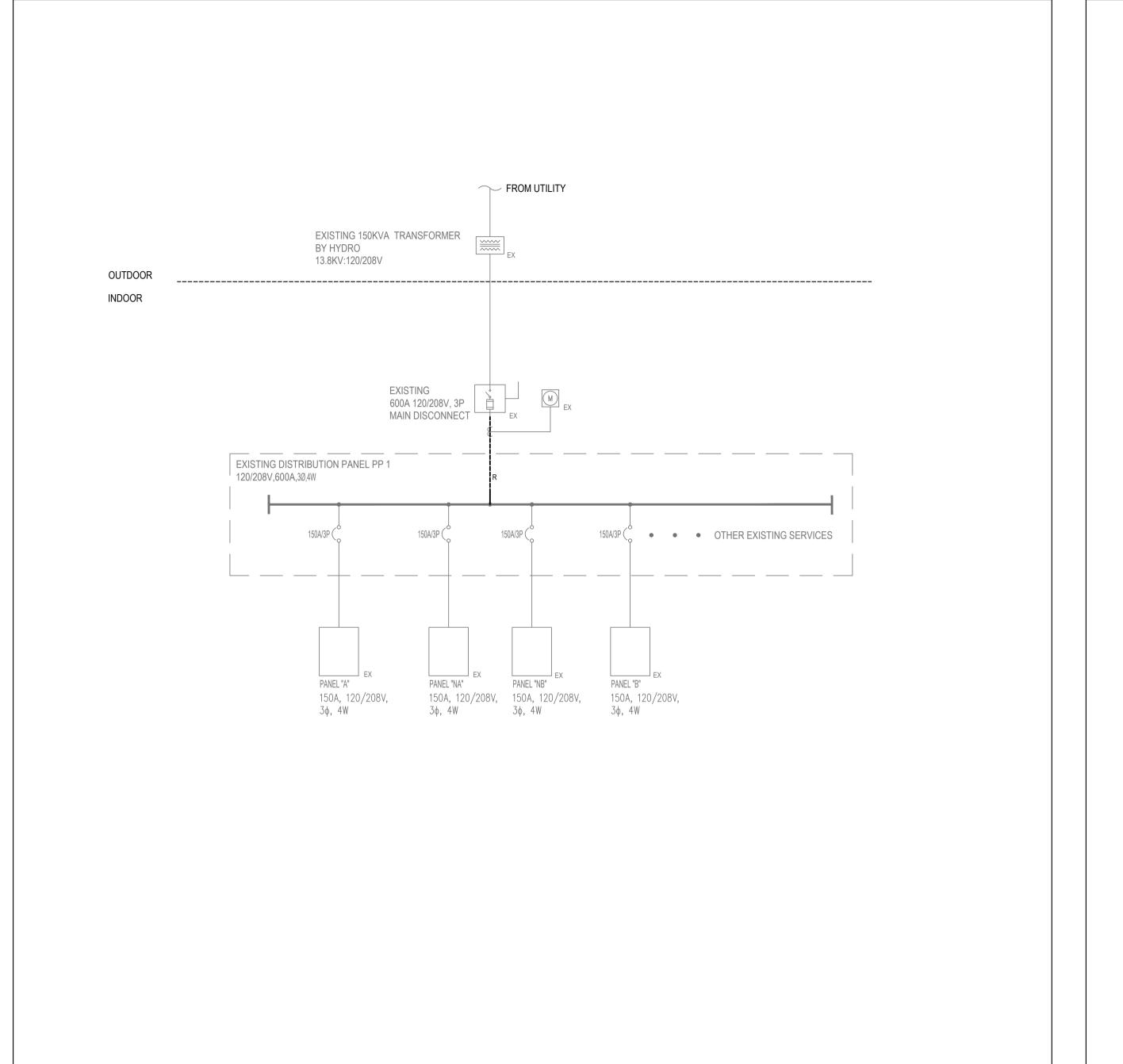


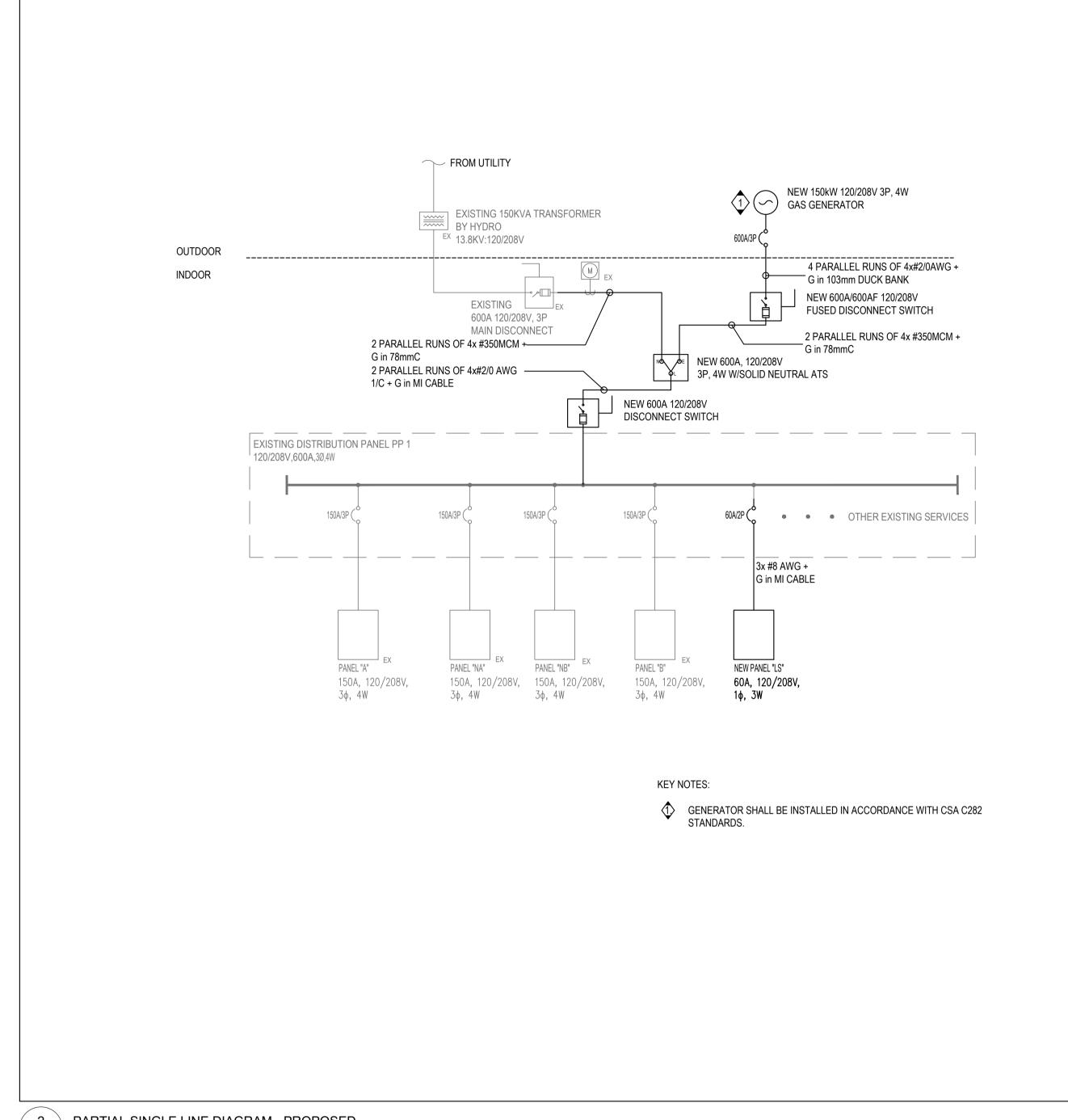
EXP SERVICES INC. EXP SERVICES INC. EXP SERVICES INC.

DRAWING LIST

DOOR DETAILS

JT DL/SL MRK-23007421-A0 AS SHOWN





1 PARTIAL SINGLE LINE DIAGRAM - DEMOLITION

SCALE: N.T.S.

2 PARTIAL SINGLE LINE DIAGRAM - PROPOSED N.T.S

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

ISSUES				
NO.	DESCRIPTION	DATE		
1	ISSUED FOR DESIGN DEVELOPMENT CLIENT REVIEW	25 AUG. 2023		
2	ISSUED FOR 50% CLIENT REVIEW	13 OCT. 2023		
3	ISSUED FOR BUILDING PERMIT	01 NOV. 2023		
4	ISSUED FOR 90% CLIENT REVIEW	10 NOV. 2023		
5	ISSUED FOR TENDER	05 JUL. 2024		
6	RE-ISSUED FOR BUILDING PERMIT	03 JAN. 2024		

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RENOVATION PHASE-02 PROJECT

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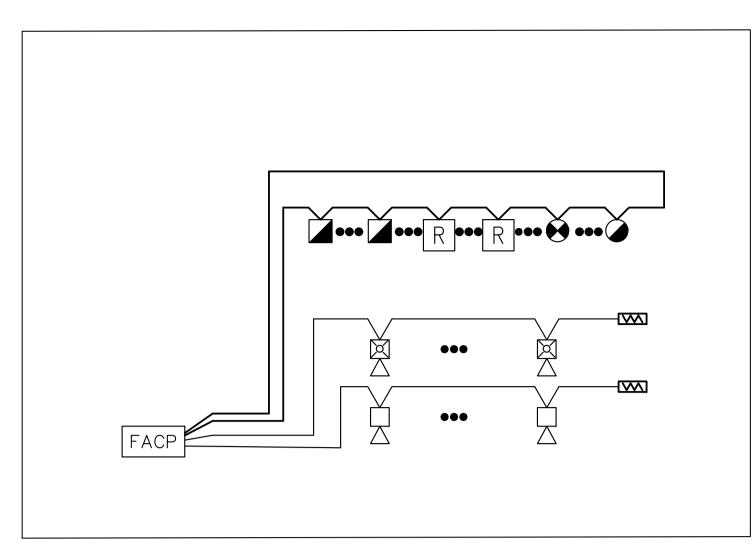
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ELECTRICAL SINGLE LINE DIAGRAM JT DL/SL MRK-23007421-A0

AS SHOWN



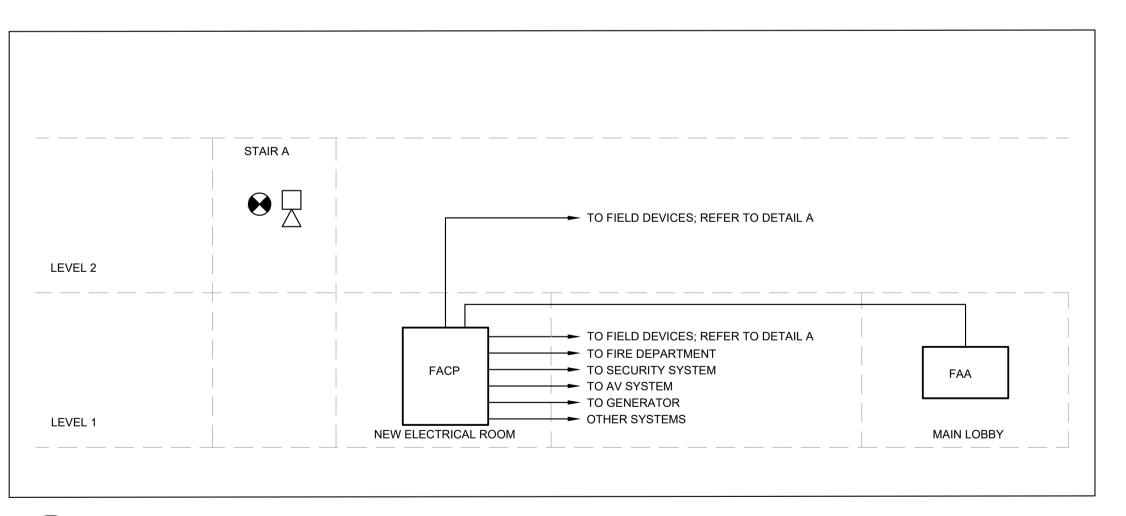
DETAIL A: TYPICAL FIRE ALARM CIRCUIT - PROPOSED

GENERAL NOTES:

- 1. FIRE ALARM SYSTEM TO BE FULLY FUNCTIONAL, INTELLIGENT REPORTING ADDRESSABLE SINGLE STAGE FIRE ALARM AND DETECTION SYSTEM.
- 2. CONTRACTOR TO PROVIDE FIRE ALARM CONTACTS AND DETECTORS AS REQUIRED BY THE CODE.
- 2. CONTRACTOR TO PROVIDE FIRE ALARM CONTACTS FOR GENERATOR.
- 3. PROVIDE 2-HR FIRE-RATED MI CABLE OR LOCATE CABLE IN 2-HR FIRE
- RATED SERVICE SPACE FOR FOLLOWING; 3.1. FEEDERS FOR FIRE ALARM CONTROL PANEL
- 3.2. FEEDERS FOR FIRE ALARM ANNUNCIATOR 3.3. FEEDERS AS REQUIRED BY THE CODES AND STANDARDS

DEMOLITION NOTES:

 THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL NEW SYSTEM IS COMPLETELY INSTALLED, VERIFIED AND OPERATIONAL. AFTER NEW SYSTEM IS OPERATIONAL, REMOVE REDUNDANT PANELS, DEVICES, WIRING AND CONDUIT.







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ISS	SUES	
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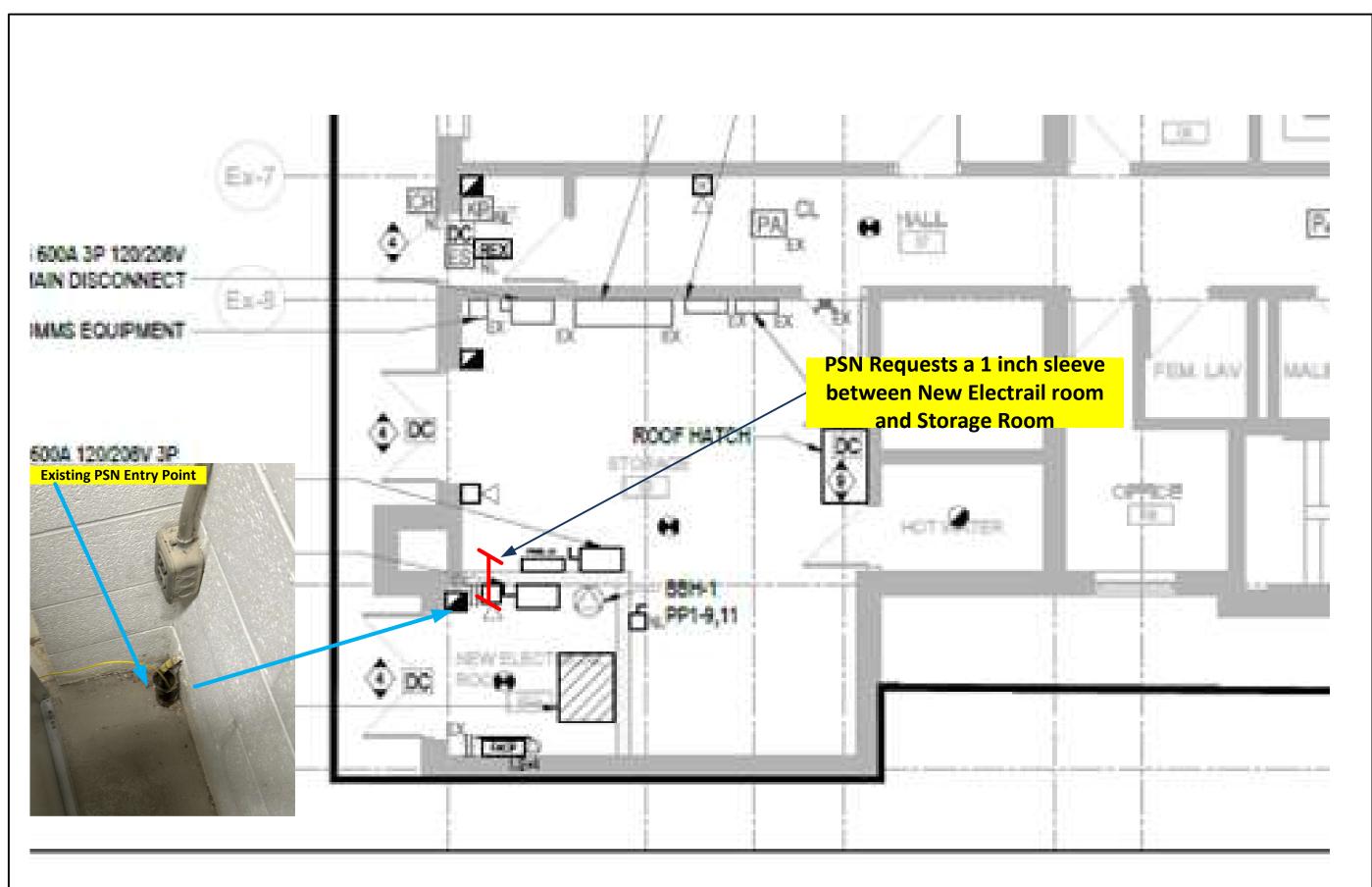
EXP SERVICES INC. EXP SERVICES INC.

DRAWING LIST

FIRE ALARM RISER DIAGRAM

JT CHECKED DL/SL
PROJECT NO. MRK-23007421-A0

N.T.S.







Drawing Title

Animal Services - PSN REQUEST

Drawn By:	Drawing #:
MF	
Reviewed By:	Revision Date:
MF	2/8/2024

