



CITY OF HAMILTON
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

WalterFedy Project No.: 2024-1007-10
ISSUED FOR BID AND PERMIT 2025-03-12

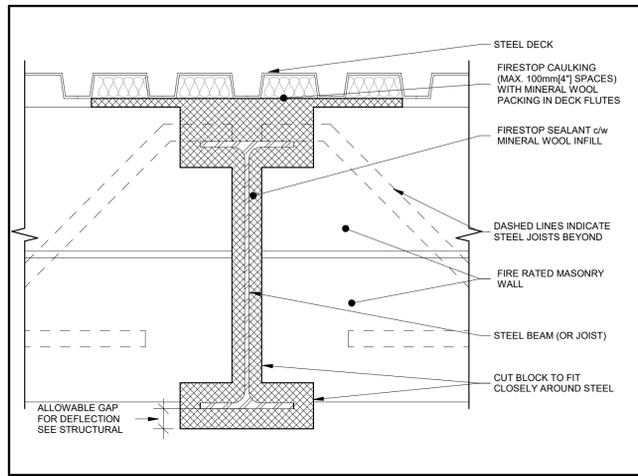
DRAWING LIST

ARCHITECTURE
A001 TYPICAL DETAILS - 4000 SERIES
A002 TYPICAL DETAILS - 6000 SERIES & MISCELLANEOUS
A003 TYPICAL DETAILS - 9000 SERIES
A004 TYPICAL DETAILS - 10000 SERIES
A101 OBC PLAN & MATRIX
A102 SITE PLAN
A103 DEMOLITION PLAN
A201 FLOOR PLAN
A202 REFLECTED CEILING PLAN
A203 ROOF PLAN
A204 FINISHES PLAN
A205 FURNITURE & EQUIPMENT PLAN, EQUIPMENT SCHEDULE
A301 EXTERIOR ELEVATIONS
A801 PLAN AND SECTION DETAILS
A801 ENLARGED WASHROOM PLANS & ELEVATIONS
A901 DOOR AND SCREEN SCHEDULE

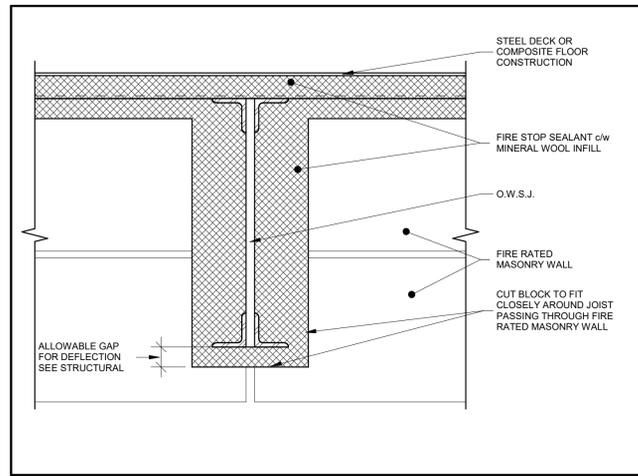
STRUCTURAL
S001 GENERAL NOTES & TYPICAL DETAILS
S002 LEGENDS AND TABLES
S201 GROUND FLOOR FRAMING PLAN
S202 ROOF FRAMING PLAN AND SECTION

MECHANICAL
M001 MECHANICAL DRAWING LIST, GENERAL NOTES, AND LEGENDS
M001 GROUND FLOOR PLUMBING AND PIPING DEMOLITION PLAN
M002 GROUND FLOOR MECHANICAL DEMOLITION PLAN
M003 ROOF MECHANICAL DEMOLITION PLAN
M201 GROUND FLOOR PLUMBING AND PIPING PLAN
M301 GROUND FLOOR H.V.A.C. PLAN
M302 ROOF MECHANICAL PLAN
M601 MECHANICAL SECTIONS
M701 DOMESTIC WATER PIPING SCHEMATIC
M702 GARAGE SERVICES AND GAS PIPING SCHEMATICS
M801 MECHANICAL STANDARD DETAILS
M901 MECHANICAL SCHEDULES
M902 GARAGE EQUIPMENT SCHEDULES

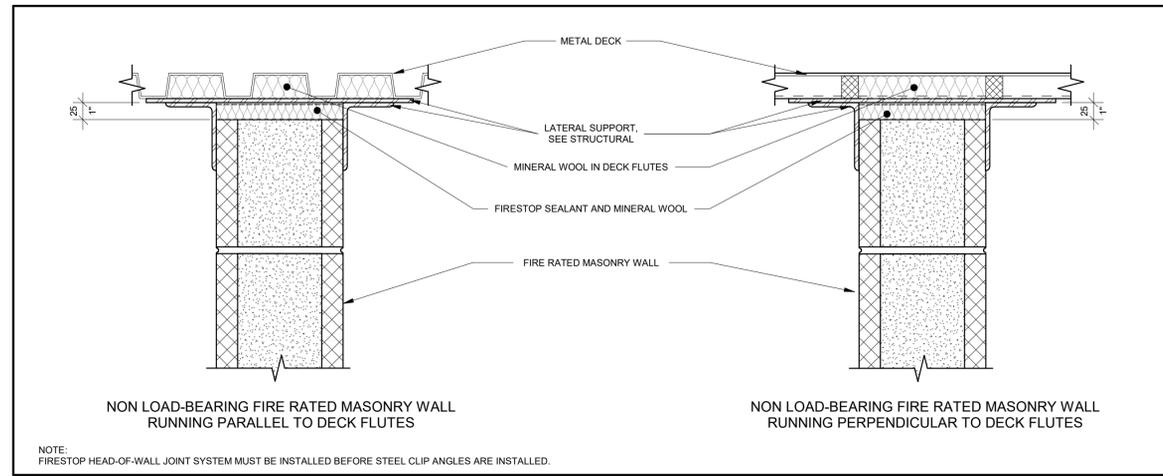
ELECTRICAL
E001 ELECTRICAL NOTES, LEGENDS, AND DRAWING LIST
E101 ELECTRICAL SITE PLAN
ED01 LIGHTING DEMOLITION LAYOUT
ED02 POWER AND SYSTEMS DEMOLITION LAYOUT
ED03 ROOF PLAN - DEMOLITION LAYOUT
E201 LIGHTING LAYOUT
E301 POWER AND SYSTEMS LAYOUT
E302 ROOF PLAN
E801 ELECTRICAL DETAILS AND SCHEDULES
E802 ELECTRICAL DETAILS
E901 SINGLE LINE DIAGRAM AND PANEL SCHEDULES
E902 ELECTRICAL SCHEDULES



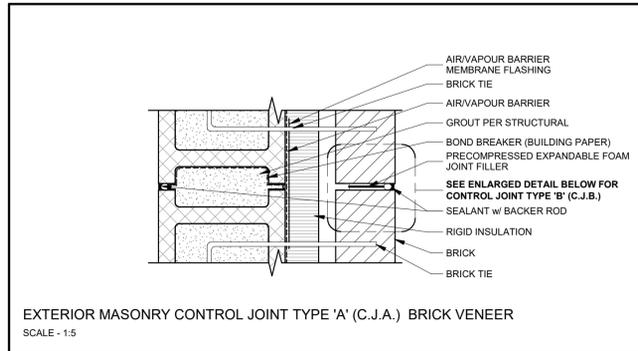
1 FIRESTOPPING: STL BEAM/JOIST @ RATED MASONRY WALL
A001 Scale: 1 : 5



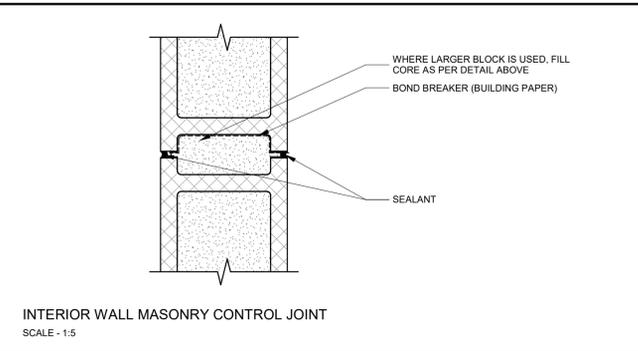
2 FIRE STOPPING: STEEL JOIST AT RATED MASONRY WALL
A001 Scale: 1 : 5



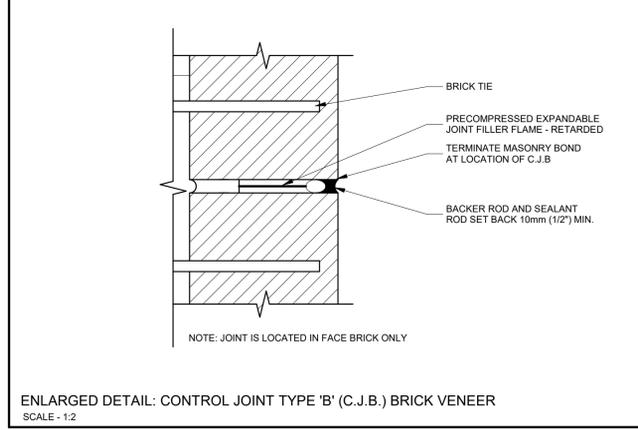
3 RATED MASONRY WALLS AT STEEL DECK/COMPOSITE FLOOR CONSTRUCTION
A001 Scale: 1 : 5



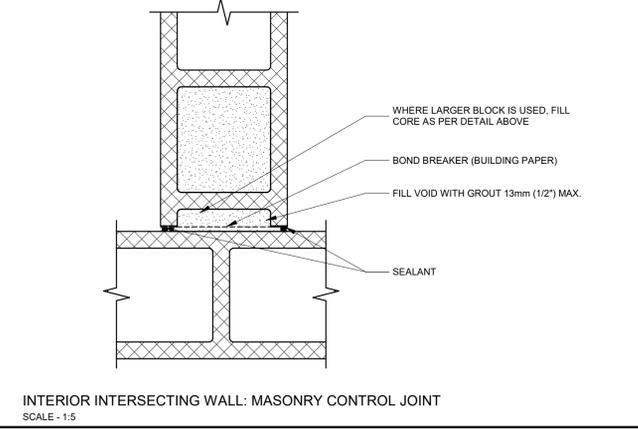
EXTERIOR MASONRY CONTROL JOINT TYPE 'A' (C.J.A.) BRICK VENEER
SCALE - 1:5



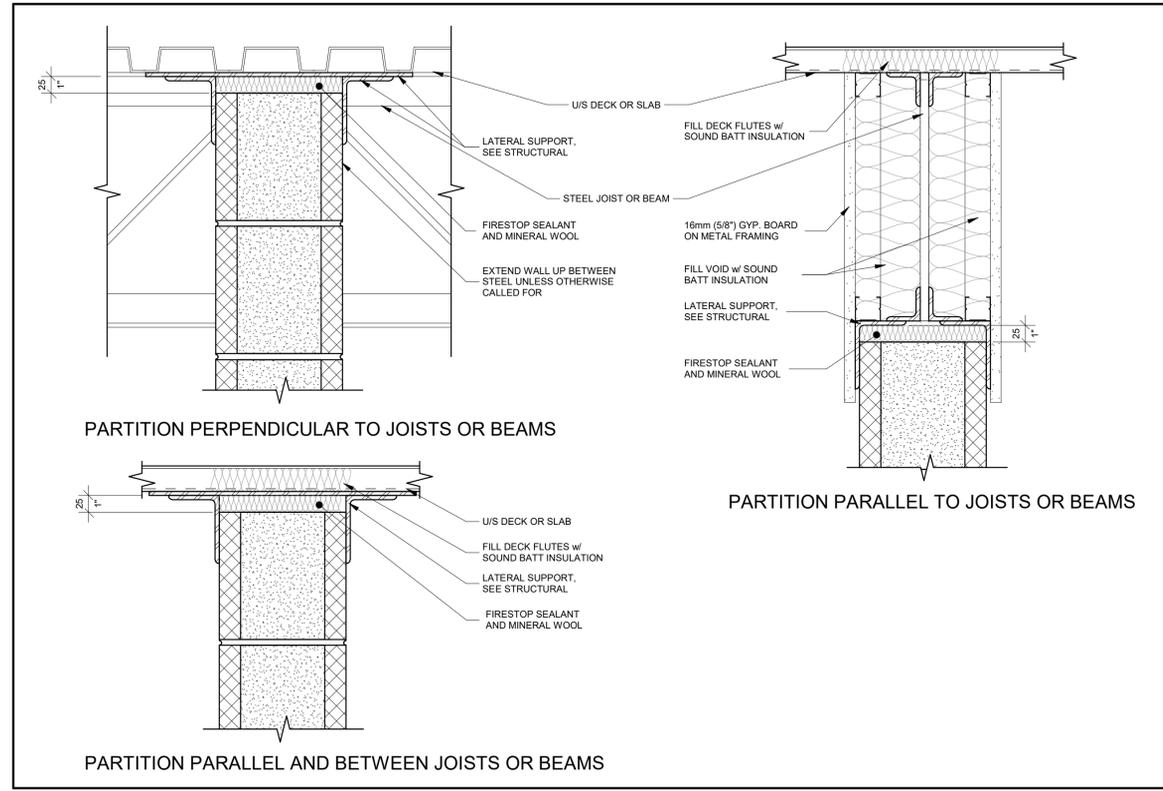
INTERIOR WALL MASONRY CONTROL JOINT
SCALE - 1:5



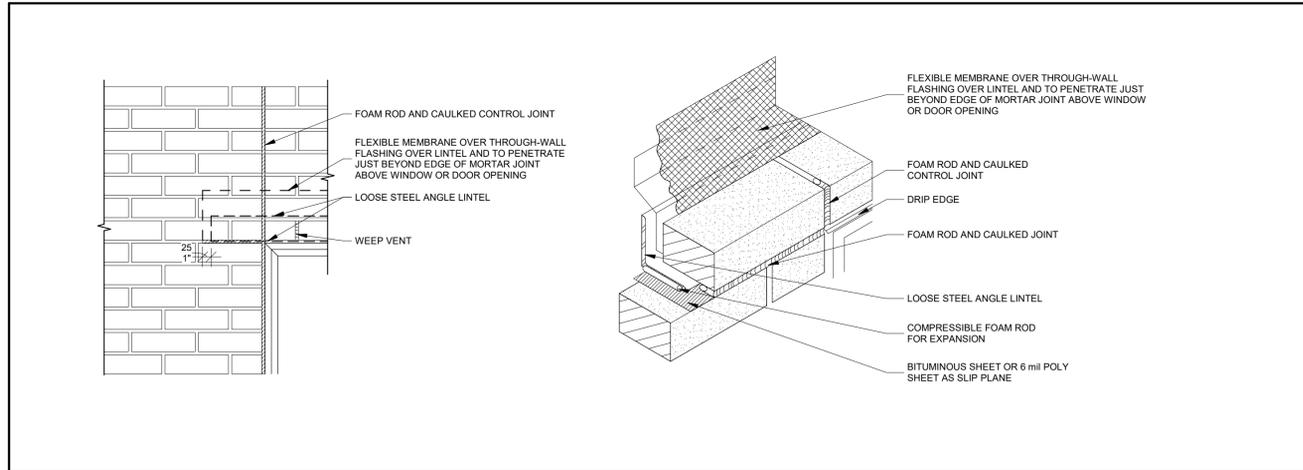
ENLARGED DETAIL: CONTROL JOINT TYPE 'B' (C.J.B.) BRICK VENEER
SCALE - 1:2



INTERIOR INTERSECTING WALL: MASONRY CONTROL JOINT
SCALE - 1:5



5 ANCHORAGE TOP OF NONRATED MASONRY WALL - SECTION VIEW
A001 Scale: 1 : 5



6 STEEL ANGLE LINTEL IN MASONRY AT WINDOW HEAD
A001 Scale: NTS



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
TYPICAL DETAILS - 4000 SERIES

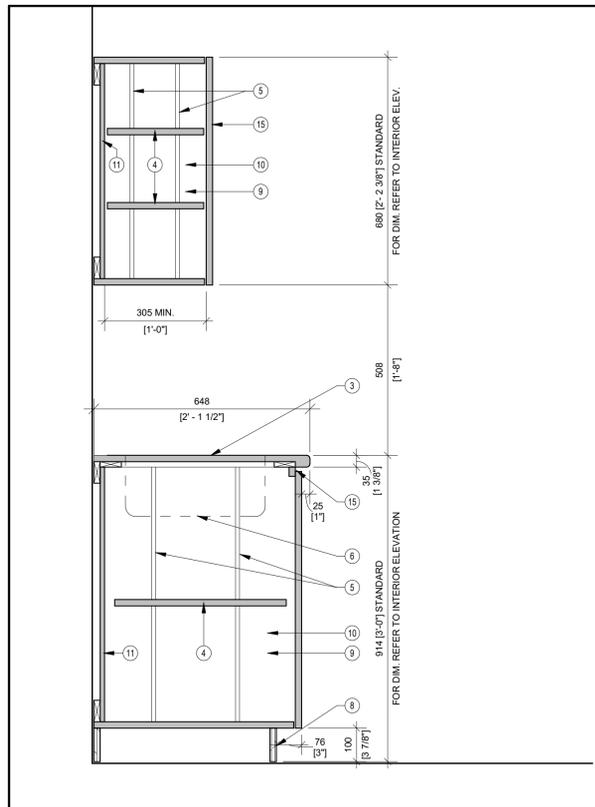
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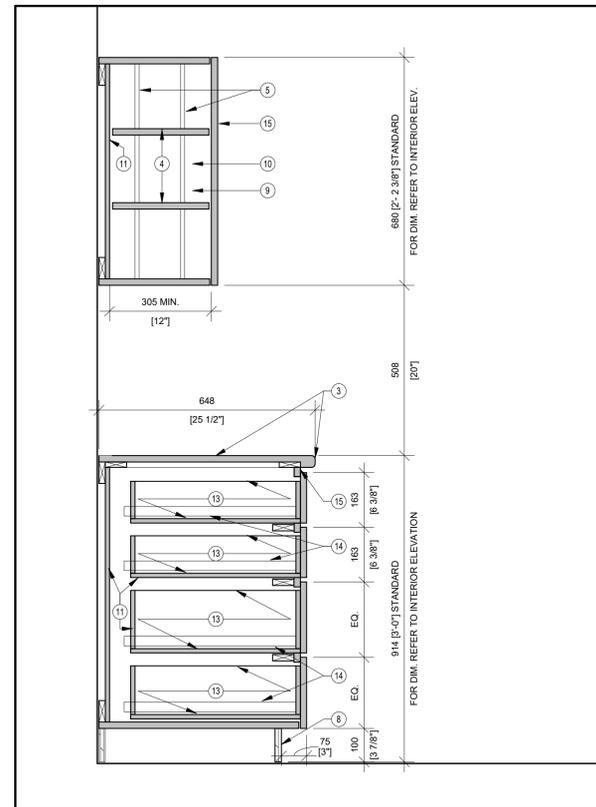
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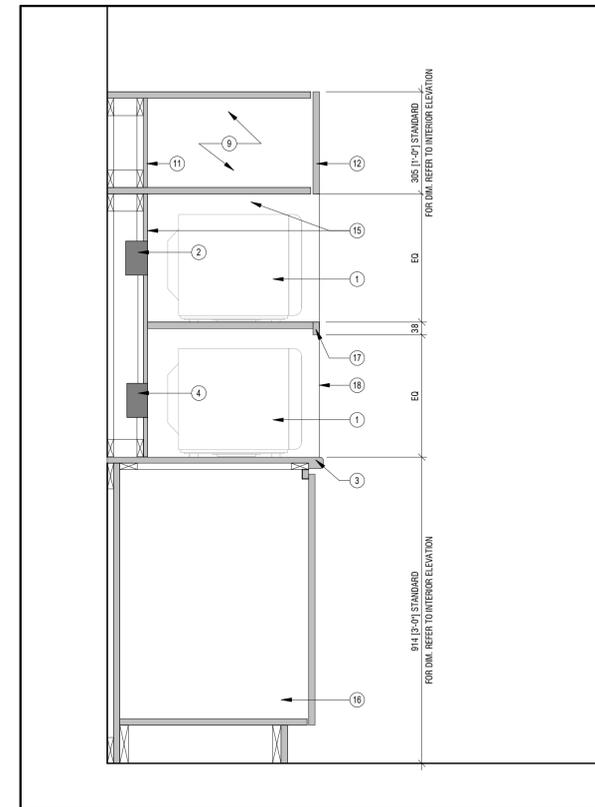
SCALE:	AS NOTED	SHEET NO.:
DATE:	2025-02-26	A001
PROJECT NO.:	2024-1007-10	
DRAWN BY:	MA+OTHERS	
CHECKED BY:	DE	



1 CABINET UPPER AND LOWER W/ DOORS
A002 Scale: 1 : 10



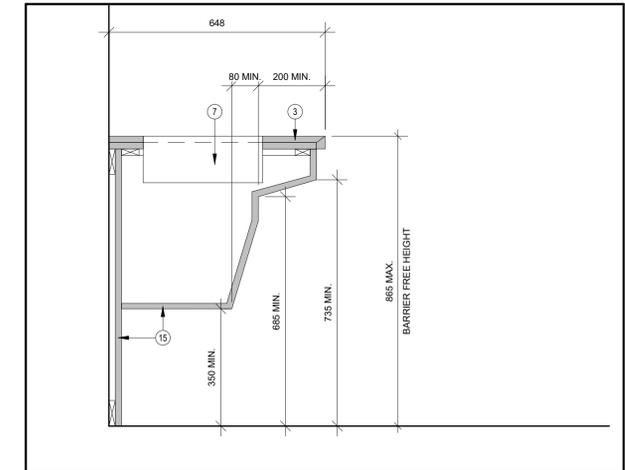
2 CABINET UPPER AND LOWER W/ DRAWERS
A002 Scale: 1 : 10



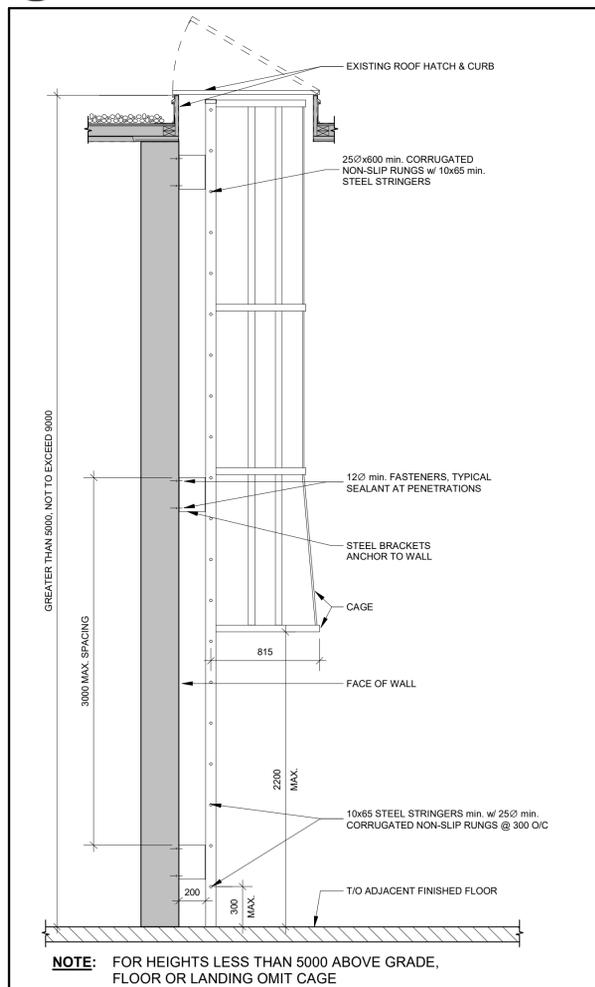
3 MICROWAVE STACK
A002 Scale: 1 : 10

MILLWORK DRAWING NOTES:

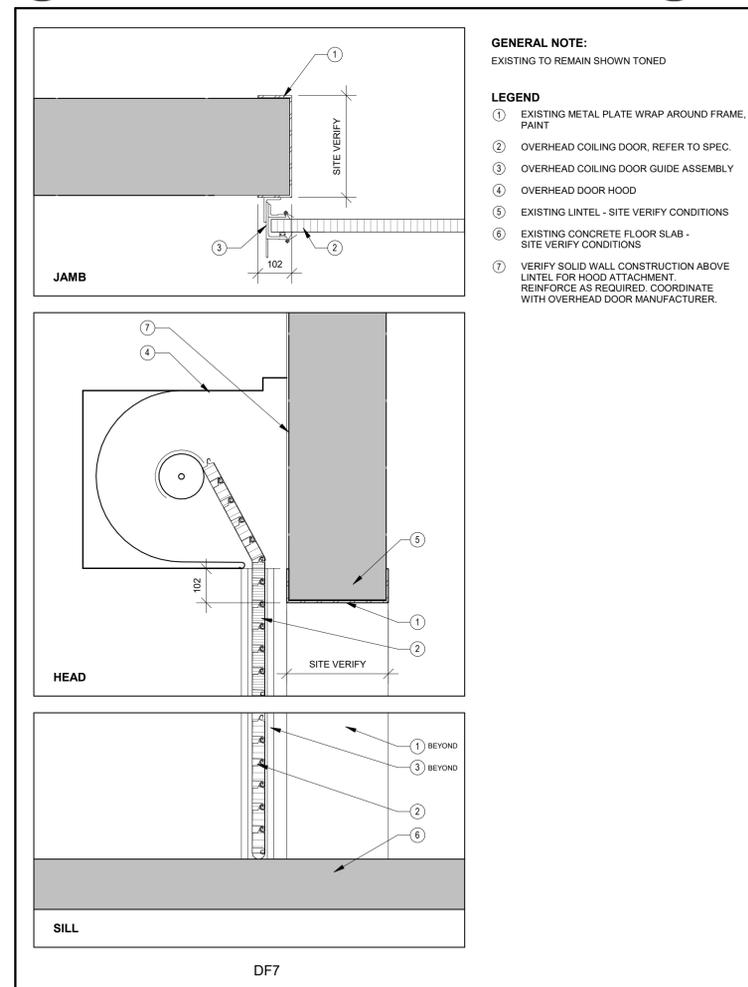
- 1 MICROWAVE. REFER TO EQUIPMENT SCHEDULE. VERIFY DIMENSIONS WITH DESIGNER PRIOR TO FABRICATION
- 2 POWER TO BE PROVIDED BEHIND MICROWAVE (TYP.). REFER TO ELECTRICAL DRAWINGS
- 3 COUNTERTOP. REFER TO ELEVATION FOR FINISH AND TO SPECIFICATION FOR NOSING DETAILS.
- 4 ADJUSTABLE SHELF
- 5 RECESSED SHELVING PILASTER AT 600 O.C. MAX.
- 6 SINK. REFER TO MECHANICAL FOR DETAILS INCLUDING MOUNTING TYPE.
- 7 BARRIER FREE SINK. REFER TO MECHANICAL FOR DETAILS INCLUDING MOUNTING TYPE.
- 8 PLASTIC LAMINATE FINISH ON 19 PLYWOOD BASE. P. LAM. COLOUR TO MATCH CABINET COLOUR
- 9 19 THICK MELAMINE INTERIOR CONSTRUCTION, WHITE FINISH
- 10 INTERIOR GABLES AT 600 O.C. MAX.
- 11 13 HIGH DENSITY P. BOARD ON WOOD FRAMING, WHITE MELAMINE FINISH
- 12 PLASTIC LAMINATE DOOR FRONT
- 13 DRAWER
- 14 SOFT CLOSING METAL DRAWER GUIDES
- 15 ALL EXTERIOR SURFACES EXPOSED TO VIEW TO BE FINISHED AS NOTED ON ELEVATION
- 16 REFER TO INTERIOR ELEVATION FOR BASE CABINET TYPE
- 17 BUILD-UP WITH MATCHING PLASTIC LAMINATE FINISH
- 18 LINE OF GABLE BEYOND, EDGE OF GABLE TO BE FLUSH WITH FACE OF UPPER CABINET



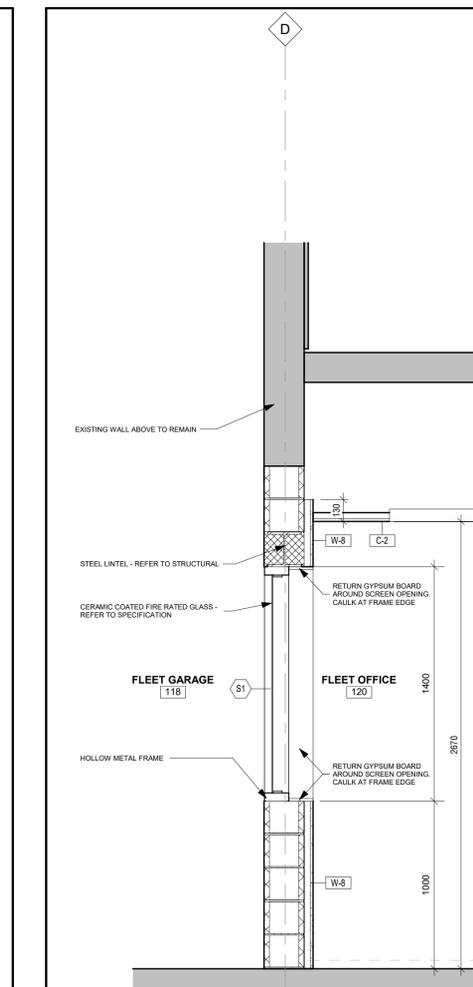
4 BARRIER-FREE ENCLOSED SINK
A002 Scale: 1 : 10



5 SIDE ELEV. - INTERIOR ROOF ACCES LADDER, ROOM
A002 Scale: 1 : 25



6 TYPICAL SECTION DETAIL - OH ROLLING DOOR
A002 Scale: 1 : 10



7 SECTION DETAIL - SCREEN S1
A002 Scale: 1 : 20

CLIENT LOGO

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION

371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
TYPICAL DETAILS - 6000 SERIES & MISCELLANEOUS

WALTERFEDY
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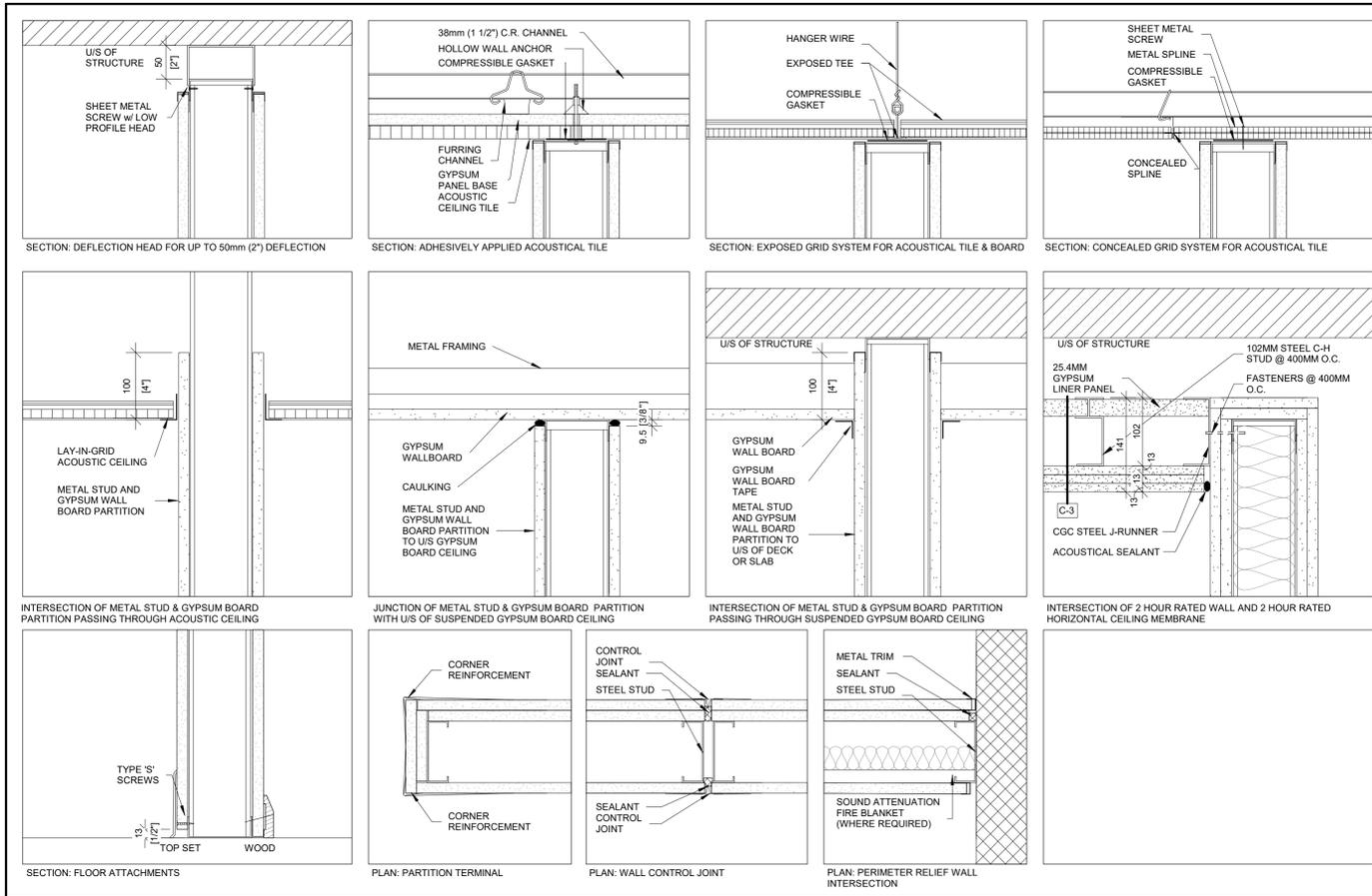
SEAL
ONTARIO ASSOCIATION OF ARCHITECTS
2025/12/03
LICENCE 9183

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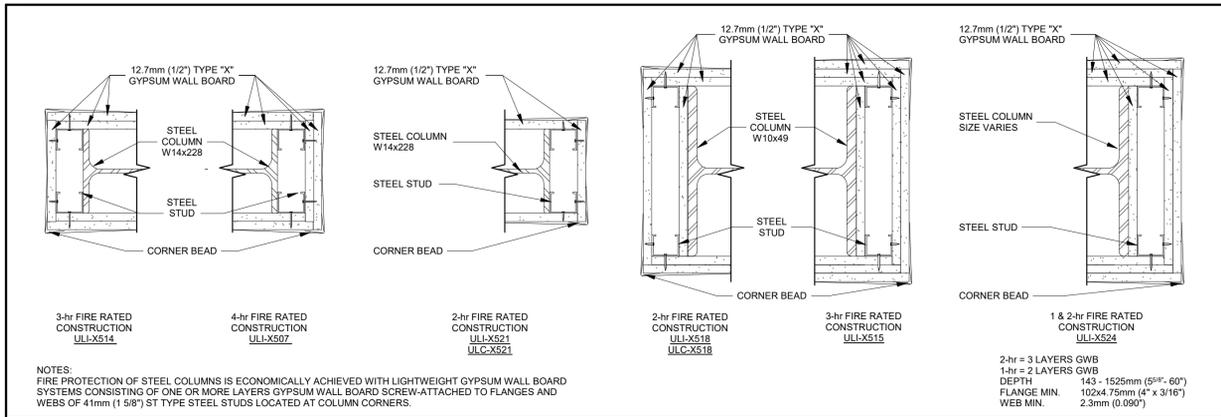
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DATE: 2025-06-25
PROJECT NO: 2024-1007-10
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CHECKED BY: DE

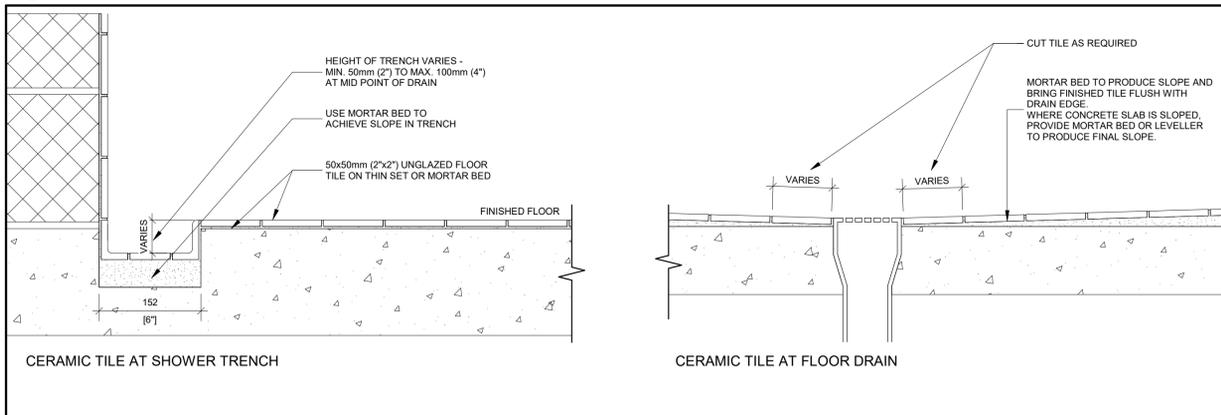
A002



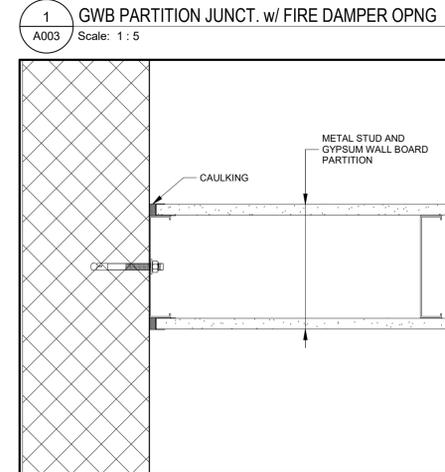
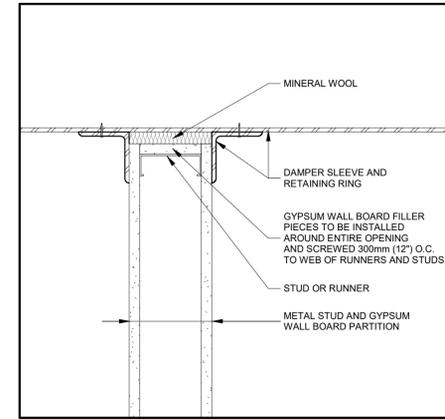
2 GYPSUM BOARD PARTITION DETAILS
A003 Scale: 1:5



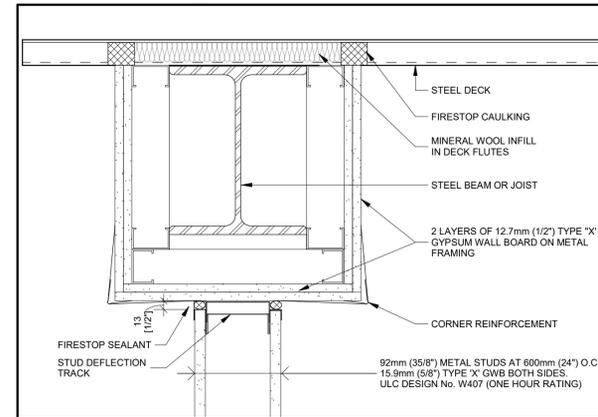
5 GYPSUM WALL BOARD COLUMN FIREPROOFING DETAILS
A003 Scale: 1:5



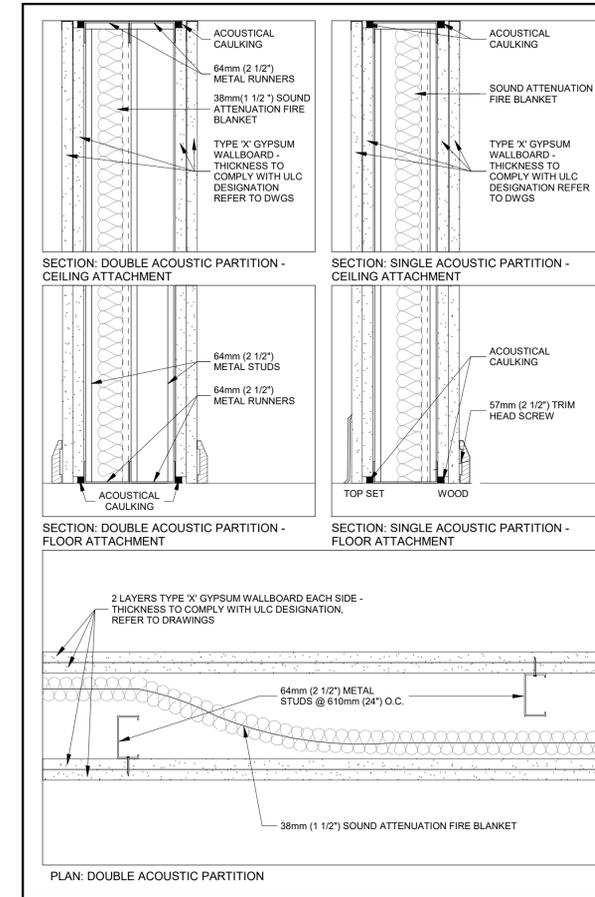
8 CERAMIC TILE AT SHOWER TRENCH AND FLOOR DRAIN SECTION DETAILS
A003 Scale: 1:5



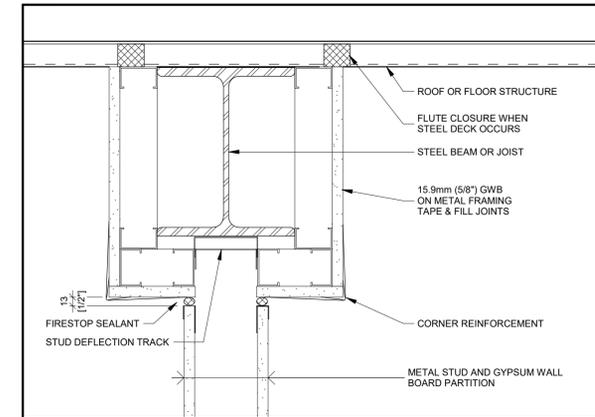
3 GWB PARTITION JUNCT. @ WALL OF ANOTHER MAT.
A003 Scale: 1:5



6 GWB PARTITION UNDER STEEL FRAMING - 1 HOUR RATED
A003 Scale: 1:5



4 GYP. WALL BD. PARTITION ACOUSTIC SEPARATION DETS.
A003 Scale: 1:5



7 GWB PARTITION UNDER STEEL FRAMING - NON-RATED
A003 Scale: 1:5



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CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
TYPICAL DETAILS - 9000 SERIES

WALTERFEDY
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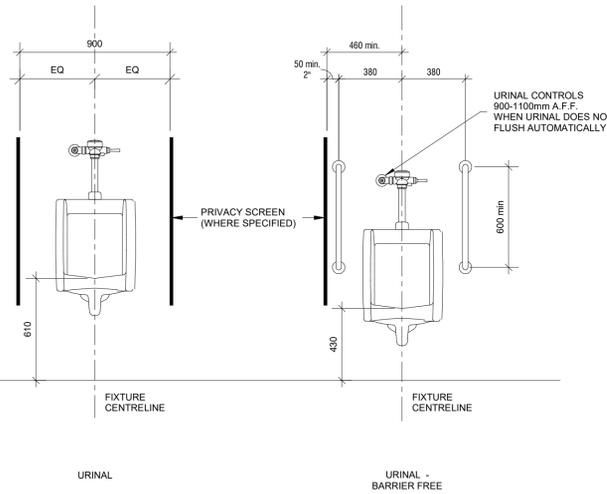


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AS NOTED	
DATE: 2025-02-26	A003
PROJECT NO: 2024-1007-10	
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NOTE: WHERE MORE THAN ONE URINAL PROVIDED IN A WASHROOM - AT LEAST ONE URINAL SHALL BE BARRIER FREE.



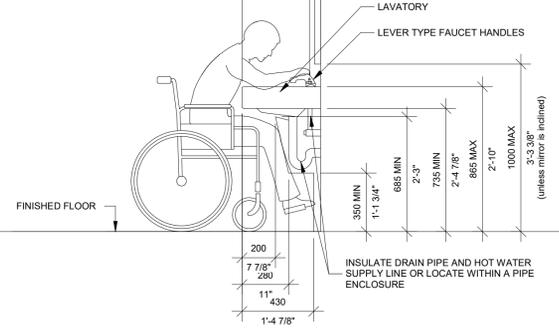
GENERAL NOTES:

- ALL GRAB BARS INSTALLED SHALL RESIST A VERTICAL OR HORIZONTAL LOAD OF AT LEAST 1.3KN (300lb).
- ALL GRAB BARS SHALL HAVE SLIP RESISTANCE SURFACE
- DISTANCE IN PLAN VIEW FROM CENTRELINE OF FIXTURE TO WALL SHALL BE 460min.-480max. (18 1/8" - 18 7/8"max.)
- GRAB BAR TO BE 30 - 40mm OUTSIDE DIAMETER
- GRAB BAR CLEARANCE OF 38 - 50mm FROM WALL TO INSIDE SURFACE OF THE BAR

1 ELEVATION: URINAL MOUNTING HEIGHTS
A004 Scale: 1 : 20

GLASS MIRROR MOUNTED ON CENTRE-LINE OF BARRIER-FREE WALL MOUNTED FIXTURE (REFER TO INTERIOR DESIGN DRAWINGS).

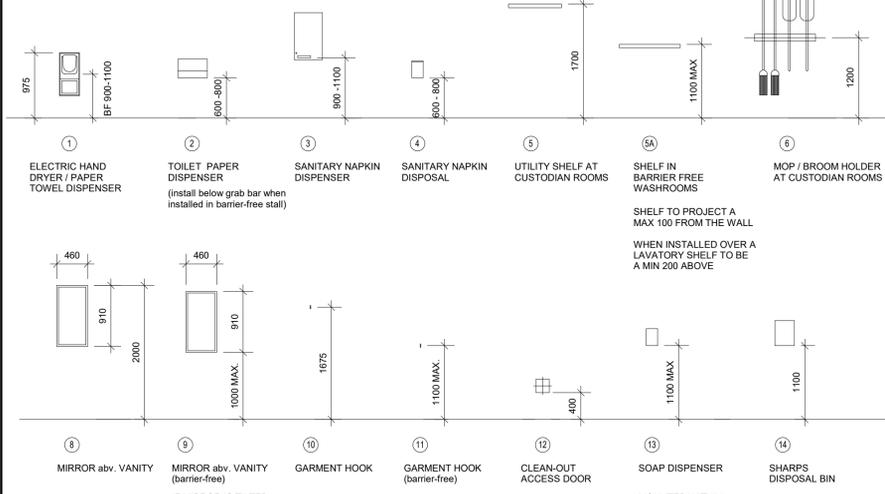
WHERE MORE THAN ONE MIRROR IS PROVIDED ONLY ONE IS REQUIRED TO BE BARRIER FREE.



GENERAL NOTES:

- CENTRELINE OF LAVATORY AND SIDE WALL NOT LESS THAN 460mm.
- LAVATORY MAY BE MOUNTED IN A VANITY PROVIDED THE ABOVE CLEARANCES ARE MAINTAINED AND A MINIMUM 920mm WIDE x 1370mm DEEP FLOOR SPACE TO ALLOW FORWARD APPROACH, OF WHICH MAXIMUM 500mm IS LOCATED UNDER LAVATORY IS PROVIDED.
- CONTROLS ARE TO BE LOCATED SO AS TO BE ADJACENT TO AND CENTRED ON EITHER THE LENGTH OR THE WIDTH OF A CLEAR FLOOR SPACE OF 810mm x 1370mm.
- UNLESS OTHERWISE REQUIRED MOUNTING HEIGHTS ARE MEASURED TO CENTRE OF OPERABLE PORTIONS OF CONTROLS AND OPERATING MECHANISMS SUCH AS DISPENSERS AND RECEPTACLES.

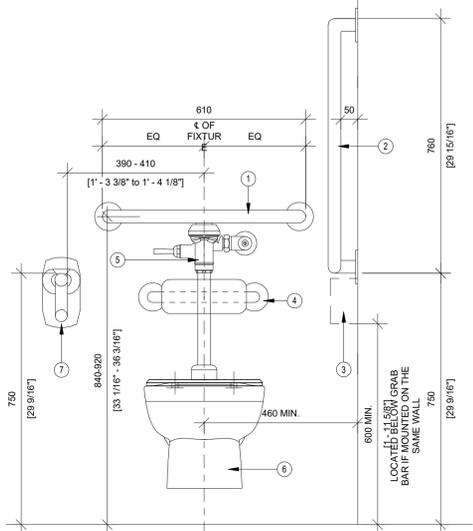
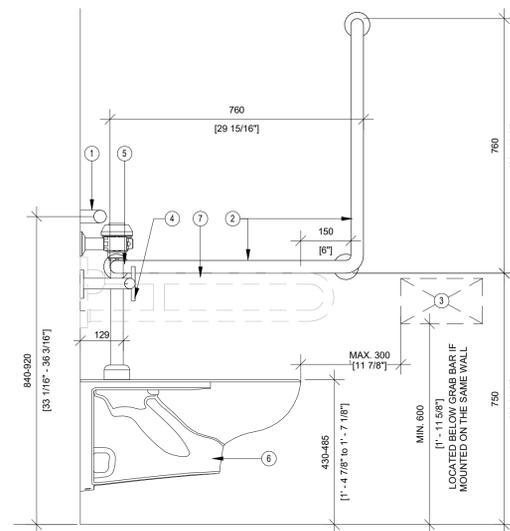
2 ELEV.: ACCESSIBLE LAVATORY MOUNTING HEIGHTS & DISTANCES
A004 Scale: 1 : 20



GENERAL NOTES:

- ACCESSORIES WITH CONTROLS/OPERATING MECHANISMS ARE TO BE LOCATED WITH A 1370mm DEEP FLOOR SPACE IN FRONT OF THE ACCESSORY TO ALLOW FOR A FRONT APPROACH
- UNLESS OTHERWISE REQUIRED MOUNTING HEIGHTS ARE MEASURED TO CENTRE OF OPERABLE PORTIONS OF CONTROLS AND OPERATING MECHANISMS AND/OR DISPENSING HEIGHT OF ACCESSORY
- ALL OTHER DISPENSING/HAND OPERATED WASHROOM ACCESSORIES TO BE MOUNTED SO DISPENSING HEIGHT/CONTROLS OR OPERATING MECHANISM HEIGHT IS BETWEEN 900 - 1200mm AFF

3 ELEVATION: TYPICAL WASHROOM/CUSTODIAN ACCESSORIES MOUNTING HEIGHTS
A004 Scale: 1 : 50

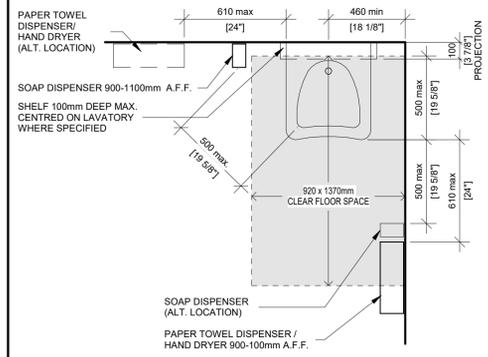


GENERAL NOTES:

- ALL GRAB BARS INSTALLED SHALL RESIST A VERTICAL OR HORIZONTAL LOAD OF AT LEAST 1.3KN (300lb).
- ALL GRAB BARS SHALL HAVE SLIP RESISTANCE SURFACES.
- DISTANCE IN PLAN VIEW FROM CENTRELINE OF TOILET TO WALL SHALL BE MIN. 460 - 480mm MAX. (18 1/8" - 18 7/8"max.)
- GRAB BAR TO BE 30 - 40mm OUTSIDE DIAMETER.
- GRAB BAR CLEARANCE OF 38 - 50mm FROM WALL TO INSIDE SURFACE OF THE BAR.
- AT LEAST ONE COAT HOOK MOUNTED AT MAX. 1200mm HIGH FROM FLOOR, ON A SIDE WALL AND PROJECTING 50mm MAX. FROM MOUNTING SURFACE.

NOTES LEGEND:

- HORIZONTAL GRAB BAR 610mm (24") LONG, CENTRED OVER TOILET. IN NO CASE SHALL THE BAR INTERFERE WITH THE TOILET SEAT LID IN THE UP POSITION.
- L' SHAPED GRAB BAR 760mm (30") LONG HORIZONTAL AND VERTICAL COMPONENTS.
- LOCATE TOILET PAPER DISPENSER WITHIN AREA SHOWN BY DASHED LINES. CLOSEST EDGE OF DISPENSER SHOULD BE 305mm (12") FROM FRONT EDGE OF WATER CLOSET. TOILET PAPER DISPENSER TO BE LOCATED BELOW THE L-SHAPED GRAB BAR WHEN INSTALLED ON THE SAME WALL.
- BACK REST AS CAN/CSA-B651-M95. BACKREST TO BE CUSTOM MODIFIED FOR A TOTAL PROJECTION OF 165mm OVERALL.
- FLUSH CONTROL TO BE OPERABLE FROM THE TRANSFER SIDE AND OPERATED WITH A CLOSED FIST AND A MAX. FORCE OF 22.2 N.
- WATER CLOSET AS SPECIFIED.
- FOLD-DOWN GRAB BAR 760mm (30") LONG HORIZONTAL COMPONENT, MAX. FORCE OF 22.2 N.



7 PLAN: ACCESSIBLE LAV. AND ACCESSORIES LAYOUT
A004 Scale: 1 : 20

5 B.F. 'L' GRAB BAR, FOLD-DOWN GRAB BAR AND TOILET ACCESSORIES FOR MANUAL TOILETS
A004 Scale: 1 : 10



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71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
TYPICAL DETAILS - 10000 SERIES

WALTERFEDY
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DATE:	2025-06-26	A004
PROJECT NO.:	2024-1007-10	
DRAWN BY:	MA+OTHERS	
CHECKED BY:	DE	



1 OBC FLOOR PLAN
A101 Scale: 1:100

DRAWING LEGEND

- 40m [131'-3"] TRAVEL DISTANCE (MAX. 40m)
- EXISTING 0 HOUR FIRE SEPARATION - PROVIDE SMOKE SEALS
- EXISTING 1 HOUR FIRE SEPARATION
- EXISTING 2 HOUR FIRE SEPARATION
- BUILDING EXIT
- CARD READER
- BARRIER FREE ENTRANCE DOOR OPERATOR PUSH BUTTON CENTRE OF BUTTON MOUNTED 1100 AFF
- DOT DENOTES ACTIVE LEAF OF DOOR
- SURFACE MOUNTED FIRE EXTINGUISHER T/O EXTINGUISHER MOUNTED MAX. 1220 AFF
- HATCHED AREA DENOTES F2 OCCUPANCY (STORAGE & GARAGE AREA)

ROOM LEGEND

- 100 VESTIBULE
- 101 UNIFORMS
- 102 CHANGE RM
- 103 CHANGE (BF)
- 104 OFFICE
- 105 HOTEL OFFICE
- 106 VESTIBULE
- 107 CORRIDOR
- 108 IT ROOM
- 109 BREAK ROOM
- 110 EXIST. ELEC ROOM
- 111 EXIST. MECH. ROOM
- 112 VESTIBULE
- 113 WOMENS W/R
- 114 JANITOR
- 115 STORES
- 116 MENS LOCKER
- 117 MENS W/R
- 118 FLEET GARAGE
- 119 FLEET STORAGE
- 120 FLEET OFFICE
- 121 VESTIBULE
- 122 SHIPPING RECEIVING
- 123 FLEET
- 124 S&R CLERK
- 125 VESTIBULE
- 126 CORRIDOR
- 127 FITNESS AREA
- 128 UNIVERSAL W/R
- 129 MULTI-PURPOSE ROOM
- 130 LUNCHROOM
- 132 ROOF ACCESS/STOR.

2024 Ontario Building Code Data Matrix Part 11 - Renovation				Building Code Reference ¹
11.00	Building Code Version: <u>O.Reg. 163/24</u> Last Amendment: <u>O.Reg. 447/24</u>			
11.01	Project Type: <input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and renovation <input type="checkbox"/> Change of use Description: <u>INTERIOR RENOVATION</u>			(A)133.38
11.02	Major Occupancy Classification: <u>F2 - MEDIUM HAZARD INDUSTRIAL (REPAIR GARAGE & STORAGE)</u> <u>D - BUSINESS AND PERSONAL SERVICES</u>	Use: <u>F2</u>	312.1(1), 214.1(1) and 112.1	
11.03	Superimposed Major Occupancies: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Description:			11.2, 322.5 to 322.8, and 221
11.04	Building Area (m ²): Description: <u>F2 GARAGE & STORAGE</u> Existing: <u>882</u> New: <u>0</u> Total: <u>0</u> <u>D OFFICE AREA</u> Existing: <u>493</u> New: <u>0</u> Total: <u>0</u> Insert additional lines as needed			(A)141.2, 112.1, and 113
11.05	Building Height: <u>1</u> Storeys above grade (m) Above grade: <u>0</u> <u>0</u> Storeys below grade			(B)14.2, 321.1, 222.2, and 113
11.06	Number of Streets/Firefighter Access: <u>1</u> street(s)			322.10, 325.2, 24.1, and 113
11.07	Building Size: <input type="checkbox"/> Small <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> > Large			11.2.1.1, and 112.11.8-N
11.08	Existing Building Classification: Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: <u>0</u> Hazard Index: <u>0</u> Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Post-disaster			10.1.2, 112.1.1, 112.1.1.A, 112.11.8 to N, 412.1.0.8, 231, and 222.1.0.2
11.09	Renovation Type: <input type="checkbox"/> Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation			11.3.2.1, and 11.3.3.2
11.10	Occupant Load: Floor Level/Area: <u>Garage/Storage</u> Occupancy Type: <u>F2</u> Based On: <u>design</u> Occupant Load (Persons): <u>9</u> <u>Office</u> <u>493 m²</u> <u>0</u> <u>14 m²</u> <u>35</u> Insert additional lines as needed			3.1.7, 2.1.2.2, and 114.2.2
11.11 a	Plumbing Fixture Requirements: Ratio: <u>M:F = 50:50</u> Except as otherwise noted Floor Level/Area: <u>Garage/Storage</u> Occupant Load: <u>9</u> OBC Reference: <u>3.7.4.9</u> WCs Required: <u>1 PER SEX</u> WCs Provided: <u>3 F, 5 M</u> <u>Office</u> <u>35</u> <u>3.7.4.7 (1)</u> <u>3 PER SEX</u> <u>3 F, 5 M</u> Insert additional lines as needed			3.7.4, 11.3.4, 11.3.5, 11.4.2.1, and 11.4.2.5
11.11 b	Plumbing Fixture Requirements (repeated): Floor Level/Area: <u>MENS WC</u> Barrier-free WCs Required: <u>1</u> Barrier-free WCs Provided: <u>1</u> Universal Washrooms Required: <u>1</u> Universal Washrooms Provided: <u>1</u> <u>WOMENS WC</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> Insert additional lines as needed			Tables 3.8.2.3.4 and 3.8.2.3.8
11.12	Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation: Barrier-free Entrances: Number: <u>0</u> Explanation:			11.3.1.2, 11.3.2, 11.3.3.2
11.13	Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			11.4.2.1, 11.4.2.2, 11.4.2.3, 11.4.2.4, 11.4.2.5, 11.4.2.6
11.14	Compensating Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe): Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe): Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe): Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe): Sewage systems: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe): Extension of buildings of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Describe):			11.4.3.1, 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.3.5, 11.4.3.6, 11.4.3.7
11.15	Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (list numbers and describe): Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (list numbers and describe): Insert additional lines as needed			11.5.1
11.16	Alternative Solutions: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (list numbers and describe): Insert additional lines as needed			(A)12.1.1, and 918.5
11.17	Notes: Insert additional lines as needed			

1 All references are to Division B of the OBC, unless preceded by (A) for Division A and (C) for Division C.

CLIENT LOGO:

KEYPLAN:

TRUE NORTH PROJECT NORTH

No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-02-25
2	ISSUED FOR SD REPORT	2025-03-19
3	ISSUED FOR REVIEW	2025-06-17
4	ISSUED FOR BID REVIEW	2025-08-22
5	ISSUED FOR BID PERMIT	2025-09-05
6	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT: CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT: HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE: OBC PLAN & MATRIX

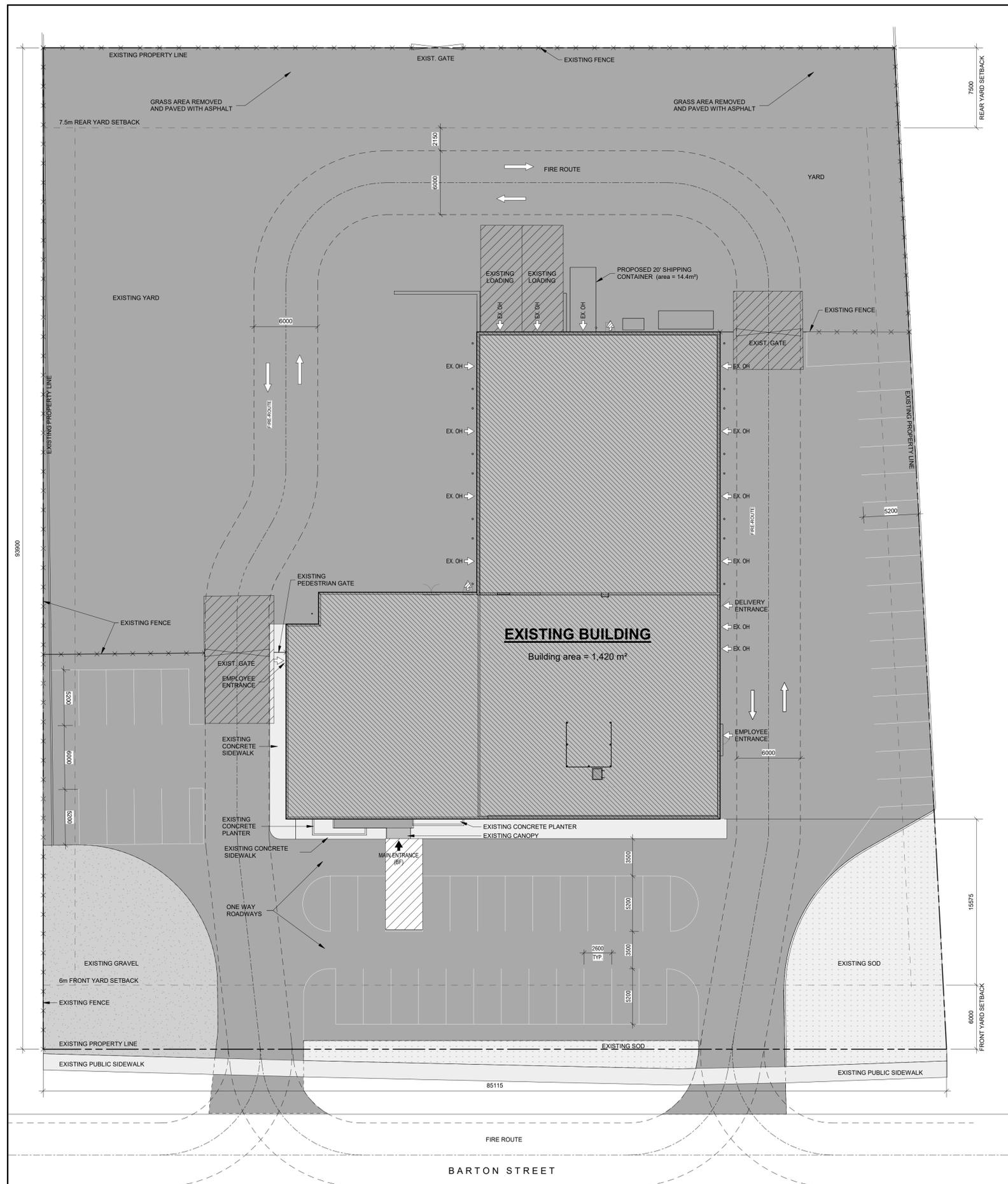
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SCALE: AS NOTED	SHEET NO: A101
DATE: 2025-02-05	
PROJECT NO: 2024-1007-10	
DRAWN BY: EL	
CHECKED BY: DE	



1 SITE PLAN
A102 Scale: 1 : 200

SITE PLAN DATA CHART			
PLANNING INFORMATION			
Assigned Address	371 BARTON ST., HAMILTON, ONTARIO		
Legal Description			
Zoning Designation	M3 – Prestige Business Park		
Site Specific Zoning			
SITE DATA			
Lot Area	100%	Metric	Imperial
Building Coverage	18%	1,424 m ²	15,330 ft ²
Sidewalks	0%	0 m ²	0 ft ²
Pavement	#DIV/0!	0 m ²	0 ft ²
Landscaped Area (10% min.)	#DIV/0!	0 m ²	0 ft ²
Lot Frontage	#DIV/0!	85 m	278.87 ft
SETBACKS			
Front Yard (min.)	Required	6 m	Provided 6 m
Front Yard (max.)		m	0 m
Side Yard Abutting Street (min.)		6 m	6 m
Side Yard (min.)		3 m	3 m
Rear Yard (min.)		7.5 m	7.5 m
SETBACKS FOR ACCESSORY BUILDING			
Rear Lot Line abutting laneway	Required	0 m	Provided 0 m
Rear Lot Line not abutting laneway (min.)		6 m	6 m
Side Lot Line abutting laneway		0 m	0 m
Side Lot Line not abutting laneway (min.)		6 m	6 m
Flankage Lot Line: Accessory buildings shall conform to the regulations for the principal use. In addition to Subsection 4.8f, all accessory buildings having a gross floor area greater than 18m ² shall conform to the regulations for the principal use.			
BUILDING DATA			
Building Gross Area	Required	1424 m ²	Provided 15330 ft ²
Building Height (637R)	(1 storey)	11 m	11 m
Floor Space Ratio		4.0	0.2
Accessory Building Size - (Sea Can)		18 m ²	14.4 m ²
PARKING DATA			
Parking Space	Required	35	Provided
Type A Barrier-Free (3.4m x 5.5m)		2	
Type B Barrier-Free (2.4m x 5.5m)		0	
Visitor Parking		7	
Loading Bay			
Bicycle Parking			
Total Parking Provided		42	

SITE PLAN LEGEND:

- ▲ MAIN ENTRANCE (EXISTING)
- ◁ ▷ BF SECONDARY ENTRANCE (EXISTING)
- ◁ ▷ BUILDING EXIT (EXISTING)
- ◁ ▷ EX. OH OVERHEAD DOOR / LOADING (EXISTING)
- ▨ EXISTING BUILDING(S) TO REMAIN
- ▨ EXISTING BUILDING(S) TO BE DEMOLISHED
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- GRAVEL
- FIRE ACCESS ROUTE
- × × × CHAIN LINK FENCE (EXISTING)
- - - SETBACKS
- - - PROPERTY LINES (LEGAL METES & BOUNDS)
- - - EASEMENT
- EXISTING CURB TO REMAIN
- - - EXISTING CURB TO BE DEMOLISHED
- EXTENT OF PROPOSED CURB
- - - EXTENT OF OVERHEAD CANOPY ABOVE
- ▲ FDC FIRE DEPARTMENT CONNECTION
- FH FIRE HYDRANT - REFER TO CIVIL
- EX. FH EXISTING FIRE HYDRANT - REFER TO CIVIL
- CB CATCH BASIN - REFER TO CIVIL
- LIGHT STANDARD - REFER TO ELEC
- 200mm Ø CONCRETE FILLED STEEL PIPE BOLLARD, PAINTED YELLOW
- EV ELECTRICAL VEHICLE CHARGING STATION
- 150 Ø x 1000mm HIGH CONCRETE FILLED STEEL BOLLARDS
- ⊗ SITE PLAN DRAWING NOTE

CLIENT LOGO

KEYPLAN

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CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES BUILDING RENOVATION

371 BARTON ST. E., HAMILTON, ONTARIO

TITLE

SITE PLAN

WALTERFEDY

TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON

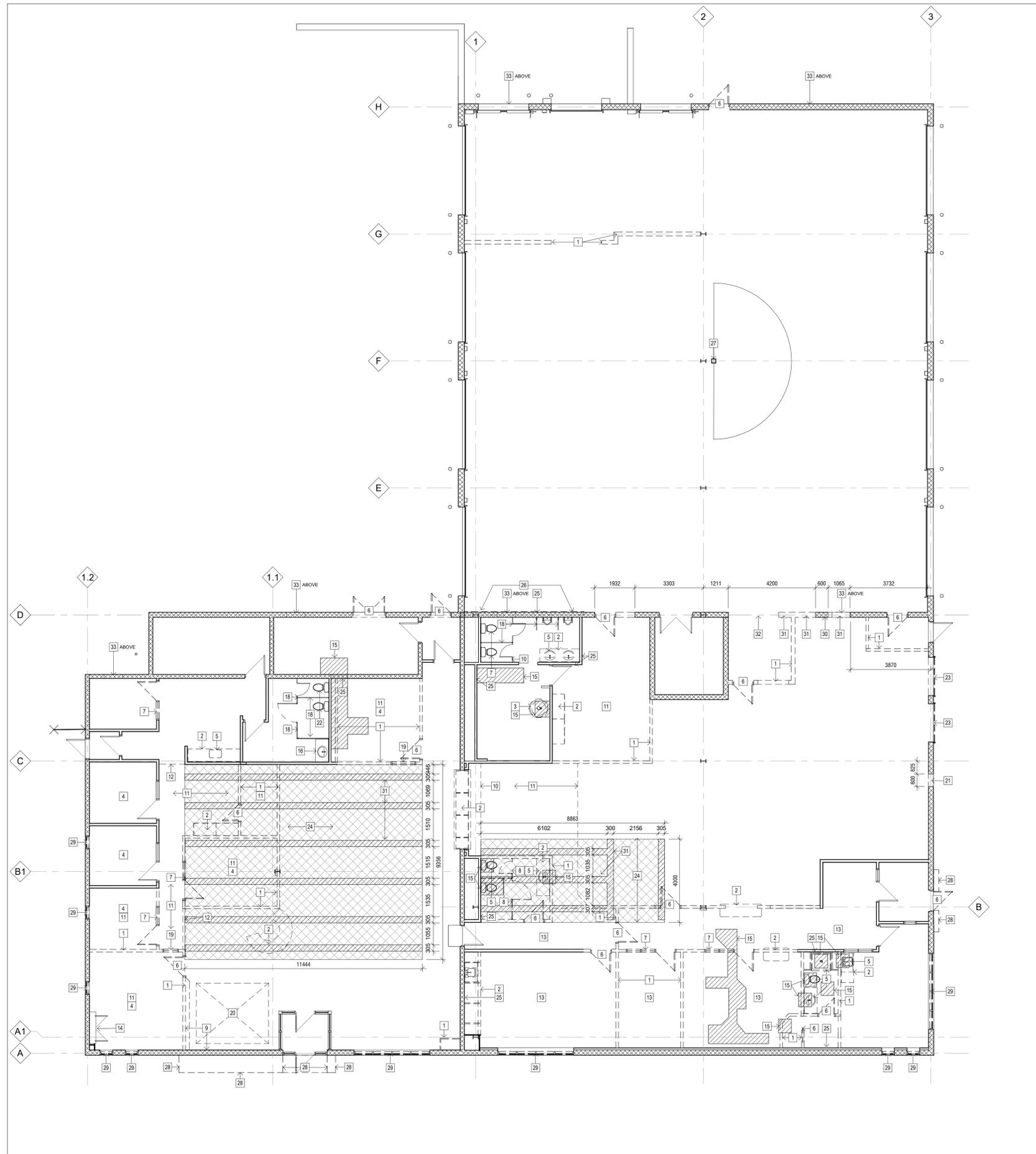
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SCALE:	AS NOTED	SHEET NO.:
DATE:	2025-01-25	A102
PROJECT NO.:	2024-1007-10	
DRAWN BY:	MA	
CHECKED BY:	DE	



1 GROUND FLOOR - DEMOLITION PLAN
A103 Scale: 1:100

GENERAL DEMOLITION NOTES

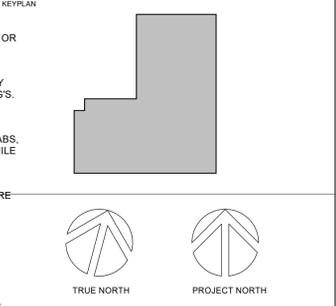
1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW GENERAL SCOPE OF DEMOLITION ONLY. THESE DRAWINGS HAVE BEEN DEVELOPED FROM REFERENCE FILES WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR TO VERIFY THESE DRAWINGS, INCLUDING ALL DIMENSIONS, AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BEFORE PROCEEDING WITH DEMOLITION & CONSTRUCTION. THE CONTRACTOR SHALL VERIFY AND CONFIRM THE COMPLETE SCOPE OF WORK DURING THE TENDER PERIOD BY ATTENDING SITE VISITS AND ALLOW FOR A REASONABLE QUANTITY OF UNFORESEEN HIDDEN DEMOLITION AND REMOVAL NOT SHOWN ON THESE DRAWINGS.
2. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES. REFER TO SPECIFICATIONS FOR INTERIM LIFE SAFETY MEASURES.
3. THE CONTRACTOR SHALL EXECUTE ALL DEMOLITION WORK AS REQUIRED TO FACILITATE THE NEW WORK AND COORDINATE ACTIVITIES ACCORDINGLY WITH THE WORK OF THE TRADES.
4. EXECUTE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ADJACENT STRUCTURES AND FINISHES. REPLACE OR REPAIR FINISHES TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION (I.E. CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.). CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR, AND MAKE GOOD ALL DAMAGE TO ADJACENT FINISHED SURFACES AND ASSEMBLIES.
5. AS THE AREAS OF THE BUILDING PROPOSED FOR RENOVATION MAY CONTAIN DESIGNATED SUBSTANCES, SPECIAL PRECAUTIONS ARE REQUIRED FOR THE REMOVAL OF SPECIFIC DESIGNATED SUBSTANCES. COMPLETE REMOVAL OF ALL ASBESTOS-CONTAINING MATERIALS MUST PRECEDE ANY WORK THAT IS LIKELY TO DISTURB THESE MATERIALS. ALL DESIGNATED SUBSTANCES MUST BE HANDLED IN ACCORDANCE WITH THE APPROPRIATE FEDERAL, PROVINCIAL AND LOCAL GUIDELINES AND REGULATION 278/05. FOLLOW PROPER METHODS AND PROCEDURES FOR DISPOSAL, WITH THE ONTARIO MINISTRY OF ENVIRONMENT. OTHER DESIGNATED SUBSTANCES MAY ALSO BE REQUIRED TO BE REMOVED WHICH MAY BE OBSTRUCTED UNTIL THE WORK OF THE NEW CONSTRUCTION COMMENCES. IN THE EVENT THAT DESIGNATED SUBSTANCES OR ACM (ASBESTOS CONTAINING MATERIAL) IS ENCOUNTERED DURING THE WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY AND TAKE NECESSARY PRECAUTIONS TO ENSURE SAFETY OF WORKERS AND PUBLIC.
6. REPAIR ANY DAMAGED FIRE-RATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION, UNLESS OTHERWISE NOTED. VERIFY THAT CONSTRUCTION OF WALLS WITHIN THE AREA OF RENOVATION (SMOKE COMPARTMENT) MEETS THE FIRE PROTECTION RATINGS DESIGNATED ON THE LIFE SAFETY PLANS. MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO BRING WALLS, DOORS, DUCTS, ETC. UP TO THE PROPER FIRE PROTECTION RATING. DOORS AND/OR FRAMES SHALL HAVE THE PROPER LABELING. WHERE REMOVAL OF PIPES, CONDUITS AND ELECTRICAL SERVICES WITHIN EXISTING FIRE RATED ASSEMBLIES ARE IDENTIFIED ON MECHANICAL AND ELECTRICAL DRAWINGS, CONTRACTOR SHALL REPAIR AND MAKE GOOD TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLY.
7. REMOVE CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL INCLUDES FINISHES AND MECHANICAL PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN FLOORS OR WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS, FLOORS AND DECK, AND PREPARE SURFACES TO RECEIVE NEW FINISHES PER FINISH SCHEDULE OR PER INTERIOR FINISH PLANS.
8. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE TEMPORARY REMOVAL OF ALL EQUIPMENT, FIXTURES, ACCESSORIES, ETC. PRIOR TO START OF ANY DEMOLITION WORK. COORDINATE WITH MECHANICAL & ELECTRICAL DWGS. HANDLE ALL COMPONENTS OF EQUIPMENT CAREFULLY, CLEAN & STORE FOR RE-INSTALLATION UPON COMPLETION OF WORK AS REQUIRED (COORDINATE WITH OWNER).
9. REFER TO MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES. FOR EXTENT AND LOCATION OF CHANNELING OF FLOOR SLABS, REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. IF PIPING OR CONDUIT WORK (OTHER THAN THE DESIRED CONNECTION) IS ENCOUNTERED WHILE CHANNELING, NOTIFY THE ARCHITECT BEFORE CONTINUING.
10. CONTRACTOR TO ENSURE ALL EXIT SIGNAGE TO REMAIN AS INSTALLED AND ENSURE FIXTURES ARE OPERATIONAL. CONTRACTOR TO PROVIDE RE-SUPPORT AS REQUIRED. CONTRACTOR TO VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION, AND ENSURE ALL EMERGENCY LIGHT FIXTURES TO REMAIN CONNECTED ALONG EGRESS ROUTES.
11. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF THE REMAINING STRUCTURE, INCLUDING ALL NECESSARY BRACING OR SHORING THAT IS REQUIRED. BRACE ALL STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
12. WHEREVER POSSIBLE, RETAIN REMOVED MASONRY, TO BE USED TO FILL WALL OPENINGS OF SIMILAR CONSTRUCTION.
13. WHERE CORE DRILLING ACTIVITIES ARE REQUIRED TO ACCOMMODATE SEEING OF NEW SERVICE PENETRATIONS THROUGH THE CONCRETE FLOOR SLAB, THESE AREAS SHALL BE MARKED OUT ON SITE WITH LOCATIONS DIMENSIONED AND SUBMITTED TO THE CONSULTANT FOR REVIEW/APPROVAL PRIOR TO COMMENCEMENT OF STRUCTURAL OPENINGS IN CONCRETE DEMISING WALLS AND FLOOR SLAB SHALL BE MADE BY AN EXPERIENCED AND PROFESSIONAL CORE DRILLING AND CUTTING SUB-CONTRACTOR. THE CONTRACTOR SHALL INFILL OPENINGS IN SLABS WHERE CONDUITS HAVE BEEN REMOVED OR RELOCATED.
14. PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES, CONTRACTOR SHALL ARRANGE WITH THE APPROPRIATE TRADE FOR THE DISCONNECTION OF UTILITY SERVICES AFFECTING THE WORK. PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES TO REMAIN FUNCTIONAL DURING THE COURSE OF THE WORK. DISCONNECT AND TEMPORARILY RELOCATE EXISTING SERVICES WHERE AFFECTED BY THE SCOPE OF DEMOLITION WORK, AND WHERE NECESSARY, RECONNECT AS REQUIRED TO MAINTAIN NORMAL OPERATIONS OF THE BUILDING. THIS WORK SHALL INCLUDE, WITHOUT BEING LIMITED TO PLUMBING, DRAINAGE, HEATING, VENTILATION AND ELECTRICAL SERVICES.
15. DASHED LINES INDICATE WORK THAT SHALL BE REMOVED UNLESS INDICATED OTHERWISE. ANY EXISTING WORK THAT IS INTENDED TO REMAIN UNDISTURBED AND IS DAMAGED RESULTING FROM THE COURSE OF THE WORK DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION THAT MATCHES EXISTING AND AT A LEVEL ACCEPTABLE TO THE STANDARD OF THE OWNER. ALL REPAIR WORK SHALL HAVE A NEAT AND CLEAN APPEARANCE AND BE COMPATIBLE WITH EXISTING FINISHES TO MATCH. INDIVIDUAL ITEMS IDENTIFIED AS PART OF A GENERAL INSTRUCTION, SUCH AS "ALL EXISTING", ARE TO BE UNDERSTOOD TO ILLUSTRATE THE GENERAL INSTRUCTION AND NOT LIMITED TO JUST THOSE ITEMS IDENTIFIED ON DRAWING.
16. CONCRETE SLAB PREPARATION: PREPARE EXISTING CONCRETE SLAB IN ACCORDANCE WITH ASTM D4259 STANDARD PRACTICE FOR ABRADING CONCRETE & ASTM D 4258 - STANDARD PRACTICE FOR SURFACE CLEANING CONCRETE FOR COATING TO REMOVE ALL LAITANCE, COATING, ADHESIVES, SEALERS AND SURFACE CONTAMINANTS.

DEMOLITION NOTES

1. EXISTING PARTITION TO BE REMOVED FULL HEIGHT
2. EXISTING MILLWORK CABINETS/UPPERS/COUNTERS TO BE REMOVED AND DISPOSED OF
3. EXISTING HANDWASH SINK TO BE REMOVED AND DISPOSED OF. REFER TO MECH DRAWINGS FOR ADDITIONAL NOTES
4. REMOVE EXISTING CARPET TILE, TRANSITION AND WALL BASE IN ITS ENTIRETY INCLUDING ADHESIVE FROM EXISTING CONCRETE SLAB TO EXTENT SHOWN ON PLAN.
5. EXISTING PLUMBING FIXTURES (SHOWER, SINK, TOILET) TO BE REMOVED AND DISPOSED OF. REFER TO MECH DRAWINGS FOR ADDITIONAL NOTES
6. REMOVE AND DISPOSE OF EXISTING DOOR & FRAME IN ITS ENTIRETY
7. EXISTING SCREEN: DOOR, FRAME AND SIDELIGHT COMPLETE TO BE REMOVED AND DISPOSED OF
8. EXISTING WASHROOM PARTITIONS TO BE REMOVED AND DISPOSED OF
9. EXISTING MILLWORK WALL CLADDING & LIGHTING FEATURE TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF
10. EXISTING BULKHEAD ABOVE TO BE DEMOLISHED FULL HEIGHT
11. EXISTING ACT CEILING TO BE DEMOLISHED. SALVAGE TEES AND CEILING TILES FOR RE-USE.
12. REMOVE EXISTING ACT CEILING UP TO THIS POINT. NEW TRIM & BULKHEAD TO BE BUILT TO FINISH. REFER TO REFLECTED CEILING PLAN.
13. REMOVE EXISTING VCT TILE, TRANSITION AND WALL BASE IN ITS ENTIRETY INCLUDING ADHESIVE FROM EXISTING CONCRETE SLAB TO EXTENT SHOWN ON PLAN.
14. ENCLOSURE FOR EXISTING SERVICES TO REMAIN
15. HATCH AREA DENOTES TO SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. EXCAVATE AND TRENCH AS REQUIRED FOR MECHANICAL/ARCHITECTURAL SCOPE. SIZE OF TRENCH TO BE DETERMINED ON SITE & TO ACCOMMODATE REPAIR DETAIL XXX
16. EXISTING VANITY COUNTERS/SINK/FAUCET TO REMAIN. PROTECT DURING DEMOLITION & CONSTRUCTION
17. EXISTING TOILET PARTITIONS TO REMAIN. PROTECT DURING DEMOLITION & CONSTRUCTION.
18. EXISTING SCREEN TO BE REMOVED AND DISPOSED OF COMPLETE
19. EXISTING SUSPENDED CEILING ABOVE TO BE REMOVED AND DISPOSED OF COMPLETE
20. SAW-CUT OPENING IN EXISTING WALL FOR PROPOSED WINDOW
21. EXISTING PLUMBING FIXTURES TO REMAIN. REFER TO MECHANICAL
22. REMOVE AND DISPOSE OF EXISTING OVERHEAD ROLL-UP DOOR AND ALL ASSOCIATED HARDWARE AND FASTENERS. PREPARE OPENING TO RECEIVE NEW OVERHEAD ROLL-UP DOOR ON THE INTERIOR SIDE OF THE OPENING.
23. REMOVE EXISTING CERAMIC TILE FLOOR FINISH IN THIS LOCATION, FOR INSTALLATION OF HIGH DENSITY STORAGE UNIT RAILS. REFER TO FURN & EQUIP PLAN FOR LOCATION. COORDINATE EXACT LOCATION ON SITE.
24. BREAK OUT EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW PLUMBING AND/OR DEMOLITION OF PLUMBING
25. WALL FURR OUT TO BE DEMOLISHED FULL HEIGHT
26. EXISTING CRANE TO REMAIN. PROTECT DURING DEMOLITION & CONSTRUCTION
27. REMOVE AND DISPOSE OF EXISTING METAL SIDING - ALL FACES, INCLUDING ALL FASTENERS AND TRIM. EXISTING SUPPORTING STRUCTURE TO REMAIN.
28. EXISTING WINDOW UNIT TO BE REMOVED AND DISPOSED OF. c/w ALL MISC. FASTENERS, ANCHORS, SHIMS AND CEILING LANT. INCLUDING EXISTING WINDOW UNITS. PREPARE OPENING TO RECEIVE NEW WINDOW. PATCH AND MAKE GOOD EXISTING ADJACENT WALLS. PREPARE TO RECEIVE NEW COAT OF PRIMER AND PAINT.
29. 400mm OF BLOCK WALL TO REMAIN. REFER TO STRUCTURAL
30. HATCH AREA DENOTES TO SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. EXCAVATE AND TRENCH AS REQUIRED FOR INSTALLATION OF HIGH DENSITY STORAGE UNIT RAILS. SIZE & EXACT LOCATION OF RAILS TO BE COORDINATED ON SITE WITH HIGH DENSITY STORAGE SUPPLIER. REFER TO STRUCTURAL FOR REPAIRS/AB THICKENING DETAIL.
31. SAWCUT AND REMOVE PORTION OF EXISTING RATED BLOCK WALL AS REQUIRED TO CREATE OPENING FOR SCREEN / DOOR
32. EXISTING OPENING - TO BE INFILLED AROUND PROPOSED SCREEN IN EXISTING RATED WALL
33. SAWCUT AND REMOVE PORTION OF EXISTING EXTERIOR WALL AS REQUIRED TO CREATE OPENING FOR LOUVER. REFER TO ELEVATIONS AND MECHANICAL DRAWINGS.

TRENCHING LEGEND:

1. ALL TRENCHING DIMENSIONS ARE APPROXIMATE. GC TO SITE VERIFY TRENCHING REQUIRED TO MINIMIZE DEMOLITION OF FLOOR SLAB TYPICAL
- SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. EXCAVATE AND TRENCH AS REQUIRED FOR ELECTRICAL AND ARCHITECTURAL SCOPE. APPROXIMATE EXTENT SHOWN HATCHED.
 - NEATLY CUT AND REMOVE EXISTING CERAMIC TILE AND MORTAR BASE FROM EXISTING CONCRETE SLAB



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HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

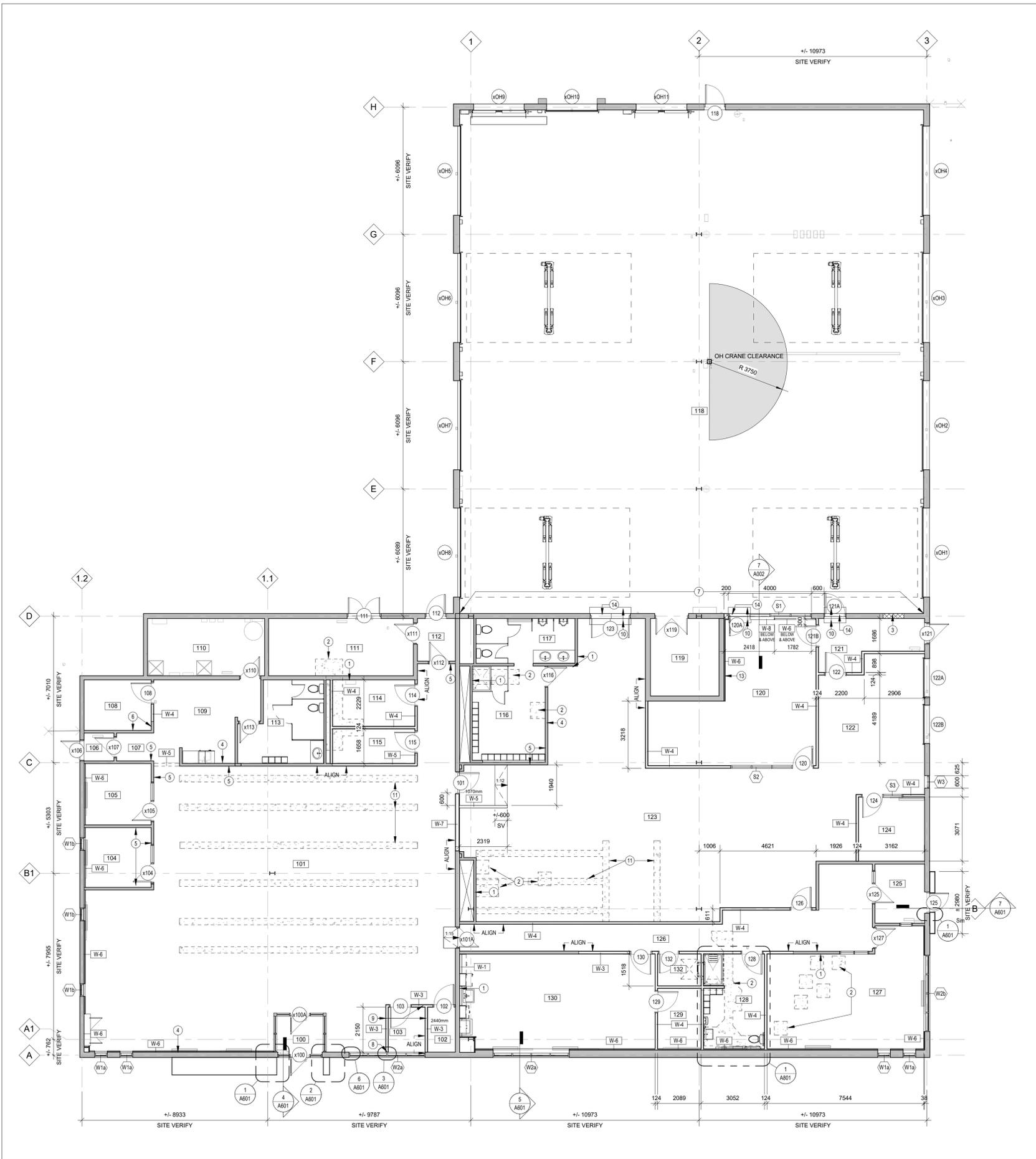
TITLE
DEMOLITION PLAN

WALTER FEDDY
TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON
800.685.1378 walterfeddy.com



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DATE: 2025-03-13	A103
PROJECT NO: 2024-1007-10	
DRAWN BY: EL, MA	
CHECKED BY: DE	



GENERAL NOTES:

- A. READ ASSEMBLY CONSTRUCTION FROM TAG SIDE OF ASSEMBLY
- B. ALL DOOR INSTALLATIONS SHALL BE IN NEW WALL CONSTRUCTION UNLESS OTHERWISE NOTED.
- C. ALL WALLS EXTEND TO U/S STRUCTURAL DECK / EXISTING CONC. SLAB UNLESS OTHERWISE NOTED ON PLAN.
- D. DIMENSIONING TO/FROM EXISTING CONDITIONS SHALL BE AT FACE OF EXISTING WALL ASSEMBLY.
- E. PROVIDE CONTROL JOINTS FOR WALLS CONSTRUCTED WITH GYPSUM WALL BOARD AND METAL STUDS. REFER TO SPECIFICATION.
- F. PROVIDE BLOCKING IN WALLS AS REQUIRED TO ANCHOR WALL HUNG EQUIPMENT, MILLWORK, ETC.
- G. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- H. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS / FINISHES
- I. ALIGN TRANSITIONS OF FLOOR MATERIAL WITH CENTRE OF HINGE IN DOORWAY.
- J. FEATHER FLOOR AS REQUIRED TO PROVIDE FLUSH FLOORING TRANSITION.
- K. INFILL / PATCH ALL AREAS DISTURBED IN DEMOLITION SCOPE TO MATCH EXIST. ADJACENT.
- L. FIRESTOP AND SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES EQUAL TO ASSEMBLY RATING.
- M. ASSEMBLIES IDENTIFIED AS 'RATED' CONSTRUCTED TO ULC DESIGNS NOTED, REFER TO DRAWING A1-- FOR GRAPHICAL LOCATIONS AND RATING TYPES

FLOOR PLAN LEGEND:

- 0000 ROOM NUMBER
- W-X WALL ASSEMBLY TYPE
- 0000 DOOR NUMBER
- W1 WINDOW NUMBER
- S1 SCREEN NUMBER
- EXISTING DOOR
- NEW DOOR
- CR CARD READER
- EX. CR EXISTING CARD READER TO REMAIN
- PDO POWER DOOR OPERATOR
- FB NEW RECESSED FLOOR BOX
- FE RELOCATED FIRE EXTINGUISHER, T/O EXTINGUISHER MOUNTED 1220mm AFF.
- ▲ SURFACE MOUNTED FIRE EXTINGUISHER T/O EXTINGUISHER MOUNTED 1220 AFF
- ▲ RECESSED FIRE EXTINGUISHER T/O EXTINGUISHER MOUNTED 1220 AFF
- ↻ ACTIVE LEAF
- EXISTING WALL ASSEMBLY TO REMAIN
- Ref SHEET CROSS REFERENCE MARKER - SIMILAR FOR ELEVATIONS, SECTIONS, AND DETAILS
- HATCHED AREA DENOTES AREA NOT IN SCOPE
- HATCHED AREA DENOTES CONCRETE INFILL OF TRENCHING (APPROX. 178 THICK), FINISH FLUSH WITH ADJACENT EXISTING CONCRETE SLAB. PATCH AND MAKE GOOD WITH EXISTING ADJACENT. REFER TO STRUCTURAL FOR SLAB ON GRADE REPAIR DETAIL TYPICAL.

FLOOR PLAN NOTES

- 1 PATCH AND REPAIR EXISTING WALL WHERE DEMO TOOK PLACE. MATCH ADJACENT WALL AND MAKE GOOD TO RECEIVE NEW FINISH
- 2 HATCHED AREA DENOTES EXTENT OF CONCRETE INFILL (APPROX. 7" THICK). FINISH FLUSH WITH EXISTING ADJACENT CONCRETE. TYP. HATCH REFLECTS LARGE INFILL AREAS FOR INFORMATION PURPOSES. ALL FLOORS TO BE MADE READY TO RECEIVE NEW FINISH, INCLUDING SMALL FLOOR PATCHES. REFER TO STRUCTURAL FOR REPAIR DETAIL.
- 3 PATCH/REPAIR EXISTING WALL WHERE DEMO TOOK PLACE WITH GYPSUM BOARD AND METAL STUD INFILL. MATCH ADJACENT WALL AND MAKE GOOD TO RECEIVE NEW FINISH
- 4 REPAIR EXISTING WALLS WHERE DEMO TOOK PLACE. MILLWORK HAS BEEN REMOVED
- 5 EXTEND EXISTING STUDS AND GWS TO UNDERSIDE OF DECK AS REQUIRED. ADD NEW SOUND ATTENUATION BLANKETS TO WALL AROUND PRIVATE OFFICES, WASHROOMS AND MEETING ROOMS.
- 6 EXTEND EXISTING STUDS AND GWS. 1HR F.R.R. REQUIRED AS PER ULC W463
- 7 REPAIR EXISTING WALL AND FIRESTOP ALL EXISTING AND NEW PENETRATIONS TO MEET 2HR F.R.R.
- 8 CENTRE WALL ON WINDOW MULLION
- 9 PROVIDE PARTIAL WALL FRAMING STUD REINFORCEMENT FOR PARTIAL HEIGHT WALLS UNSUPPORTED AT TOP TRACK AS REQUIRED. REFER TO SPECIFICATION.
- 10 HEAVY DUTY THRESHOLD RAMP BOTH SIDES OF 50mm CURB
- 11 HATCHED AREA DENOTES EXTENT OF CONCRETE SLAB THICKENING FOR INSTALLATION OF HIGH DENSITY STORAGE UNIT RAILS. FINISH FLUSH WITH EXISTING ADJACENT CONCRETE. TYP. HATCH REFLECTS LARGE INFILL AREAS FOR INFORMATION PURPOSES. ALL FLOORS TO BE MADE READY TO RECEIVE NEW FINISH. REFER TO STRUCTURAL FOR DETAIL.
- 13 FURR-OUT EXISTING CONCRETE BLOCK-WALL FULL LENGTH OF WALL
- 14 153mm CONCRETE CURB

WALL ASSEMBLIES:

- W-X EXISTING WALL TO REMAIN.
- W-1 16 GYPSUM WALL BOARD
92 METAL STUDS (20ga.) @ 400 O.C
- W-2 16 GYPSUM WALL BOARD
92 METAL STUDS (20ga.) @ 400 O.C
89 MINERAL FIBRE ACOUSTIC BATT CAVITY INSUL
16 GYPSUM WALL BOARD
- W-3 16 GYPSUM WALL BOARD
92 METAL STUDS (20ga.) @ 400 O.C
PROVIDE PARTIAL WALL FRAMING CONNECTION TO FLOOR AS REQUIRED. REFER TO SPEC.
16 GYPSUM WALL BOARD
- W-4 16 TYPE-X GYPSUM WALL BOARD
92 METAL STUDS (20ga.) @ 400 O.C
89 MINERAL FIBRE ACOUSTIC BATT CAVITY INSUL
16 TYPE-X GYPSUM WALL BOARD
1HR RATING ULC W463
PROVIDE FIRE STOPPING TO ALL PENETRATIONS
- W-5 16 GYPSUM WALL BOARD
92 METAL STUDS (20ga.) @ 400 O.C
16 GYPSUM WALL BOARD
- W-6 16 GYPSUM WALL BOARD
38 METAL FURRING CHANNELS @ 400 O.C
- W-7 16 ABUSE RESISTANT GYPSUM WALL BOARD
152 METAL STUDS (20ga.) @ 400 O.C
149 MINERAL FIBRE ACOUSTIC BATT CAVITY INSUL
16 ABUSE RESISTANT GYPSUM WALL BOARD
- W-8 INFILL IN EXISTING 2HR RATED WALL:
240 CONCRETE BLOCK - NORMAL WEIGHT
38 METAL FURRING CHANNELS @ 400 O.C
16 GYPSUM WALL BOARD
2HR RATING TO MATCH EXISTING
PROVIDE FIRE STOPPING TO ALL PENETRATIONS

ROOM LEGEND

- 100 VESTIBULE
- 101 UNIFORMS
- 102 CHANGE RM
- 103 CHANGE (BF)
- 104 OFFICE
- 105 HOTEL OFFICE
- 106 VESTIBULE
- 107 CORRIDOR
- 108 IT ROOM
- 109 BREAK ROOM
- 110 EXIST. ELEC ROOM
- 111 EXIST. MECH. ROOM
- 112 VESTIBULE
- 113 WOMEN'S W/R
- 114 JANITOR
- 115 STORES
- 116 MEN'S LOCKER
- 117 MEN'S W/R
- 118 FLEET GARAGE
- 119 FLEET STORAGE
- 120 FLEET OFFICE
- 121 VESTIBULE
- 122 SHIPPING RECEIVING
- 123 FLEET
- 124 S&R CLERK
- 125 VESTIBULE
- 126 CORRIDOR
- 127 FITNESS AREA
- 128 UNIVERSAL W/R
- 129 MULTI-PURPOSE ROOM
- 130 LUNCHROOM
- 132 ROOF ACCESS/STOR.

CLIENT LOGO

KEYPLAN

TRUE NORTH PROJECT NORTH

No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-02-25
2	ISSUED FOR SD REPORT	2025-03-19
3	ISSUED FOR REVIEW	2025-06-17
4	ISSUED FOR BID REVIEW	2025-08-22
5	ISSUED FOR BID REVIEW	2025-09-05
6	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES BUILDING RENOVATION

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TITLE

FLOOR PLAN

WALTERFEDY

TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON

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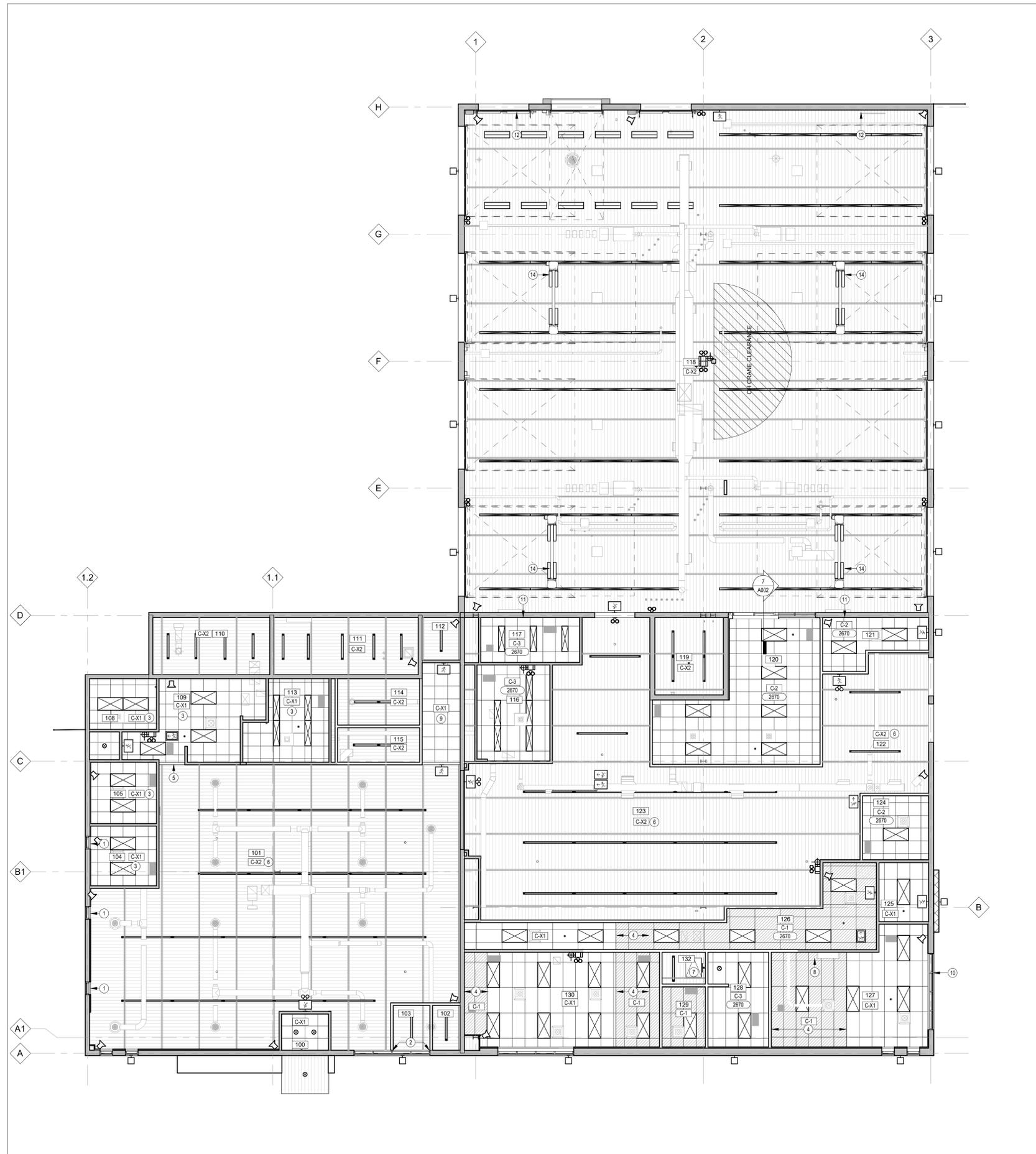
SEAL

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DATE:	2025-02-05	A201
PROJECT NO.:	2024-1007-10	
DRAWN BY:	EL, MA	
CHECKED BY:	DE	

1 GROUND FLOOR PLAN
A201 Scale: 1 : 100



REFLECTED CEILING PLAN GENERAL NOTES

- A. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN TO ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
- B. REFER TO ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, NURSE CALL DOME LIGHTS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
- C. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS WITH FULL HEIGHT CABINETS AND INTERIOR ELEVATIONS.
- D. 460 (18") MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
- E. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE OF THE FIRE RATED TYPE EQUAL TO THE RATINGS OF THE CEILING IN WHICH THEY OCCUR.
- F. WHERE EXISTING LAV IN CEILINGS ARE TO REMAIN, THE CONTRACTOR SHALL REPLACE ANY TILE THAT HAS BEEN DAMAGED WITH MATERIALS THAT MATCH THE EXISTING FOR COLOR, TEXTURE, PATTERN, ETC.
- G. RELOCATE SUPPLY DRAIN AND VENT PIPES TO MAINTAIN SCHEDULED CEILING HEIGHTS. COORDINATE RELOCATIONS WITH MEP.
- H. LOAD BEARING STEEL STUD FOR CEILING FRAMING TO BE DESIGNED BY OTHERS.

ROOM LEGEND

- 100 VESTIBULE
- 101 UNIFORMS
- 102 CHANGE RM
- 103 CHANGE (BF)
- 104 OFFICE
- 105 HOTEL OFFICE
- 106 VESTIBULE
- 107 CORRIDOR
- 108 IT ROOM
- 109 BREAK ROOM
- 110 EXIST. ELEC ROOM
- 111 EXIST. MECH. ROOM
- 112 VESTIBULE
- 113 WOMEN'S W/R
- 114 JANITOR
- 115 STORES
- 116 MEN'S LOCKER
- 117 MEN'S W/R
- 118 FLEET GARAGE
- 119 FLEET STORAGE
- 120 FLEET OFFICE
- 121 VESTIBULE
- 122 SHIPPING RECEIVING
- 123 FLEET
- 124 S&R CLERK
- 125 VESTIBULE
- 126 CORRIDOR
- 127 FITNESS AREA
- 128 UNIVERSAL W/R
- 129 MULTI-PURPOSE ROOM
- 130 LUNCHROOM
- 132 ROOF ACCESS/STOR.

REFLECTED CEILING PLAN LEGEND:

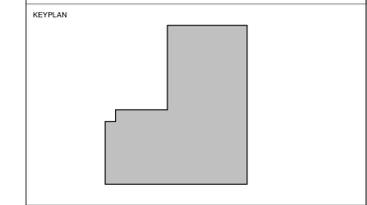
- C-1 CEILING ASSEMBLY TYPE
- XXXX UIS OF CEILING ELEVATION A.F.F.
- SUSPENDED GYPSUM BOARD CEILING OR BULKHEAD
- ACOUSTIC CEILING TILE & SUSPENSION SYSTEM
- EXTEND EXISTING ACOUSTIC CEILING TILE T-BAR GRID
- LIGHT FIXTURE (REFER TO ELEC.)
- SUPPLY AIR DIFFUSER (REFER TO MECH.)
- RETURN AIR GRILLE (REFER TO MECH.)
- LINEAR DIFFUSER (REFER TO MECH.)
- WALLS TO UIS OF CEILING

CEILING ASSEMBLIES

- C-1 610x1220 ACOUSTIC CEILING TILE
PREFIN. METAL T-BAR SUSPENSION SYSTEM
- C-2 610x610 ACOUSTIC CEILING TILE
PREFIN. METAL T-BAR SUSPENSION SYSTEM
- C-3 610x1220 ACOUSTIC CEILING TILE
**FOR WET AREAS
PREFIN. METAL T-BAR SUSPENSION SYSTEM
- C-X1 EXISTING CEILING TO REMAIN
- C-X2 EXISTING EXPOSED METAL DECK, STEEL
STRUCTURE, AND MECH/ELEC SERVICES.

RCP NOTES

- 1 PROVIDE NEW ROLLER SHADES. CEILING MOUNTED. REFER TO SPECIFICATION.
- 2 PROVIDE NEW BLACKOUT ROLLER SHADES. CEILING MOUNTED. REFER TO SPECIFICATION.
- 3 EXISTING T-BAR CEILING TO REMAIN. COORDINATE REMOVAL OF CEILING TILES TO ACCOMMODATE NEW PIPING AND HVAC WORK. IN SOME AREAS TEES WILL NEED REMOVAL TO INSTALL LARGER PORTIONS OF DUCTWORK.
- 4 EXTENT OF NEW T-BAR CEILING INFILL TO MATCH EXISTING ADJACENT.
- 5 NEW BULKHEAD FROM UIS OF T-BAR TO UIS OF DECK. REFER TO FLOOR PLAN.
- 6 ALL EXPOSED DECK, ASSOCIATED DUCTWORK, PIPING, OWSJ ETC TO BE PAINTED BLACK. REFER TO FINISHES PLAN.
- 7 EXISTING ROOF ACCESS HATCH
- 8 NEW WALL MOUNTED AC UNIT. ALLOW FOR BREAKOUT & REPAIR OF EXISTING WALL AS REQUIRED. REFER TO MECH.
- 9 EXISTING T-BAR CEILING TO BE REMOVED AND REINSTATED TO ALLOW FOR NEW HVAC INSTALL.
- 10 EXISTING HVAC PENETRATION TO BE REMOVED. PATCH AND REPAIR EXISTING EXTERIOR WALL WHERE DEMO TOOK PLACE. MATCH ADJACENT WALL AND MAKE GOOD.
- 11 NEW 1200x600mm FIRE-RATED EXTERIOR WALL PENETRATION FOR NEW DUCT THROUGH WALL. REFER TO MECH.
- 12 NEW 1200x600mm EXTERIOR WALL PENETRATION FOR NEW DUCT THROUGH WALL. REFER TO MECH.
- 14 FLOOR MOUNTED HOIST



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1	ISSUED FOR SD REPORT	2025-03-19
2	ISSUED FOR REVIEW	2025-06-17
3	ISSUED FOR BID REVIEW	2025-09-05
4	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
REFLECTED CEILING PLAN

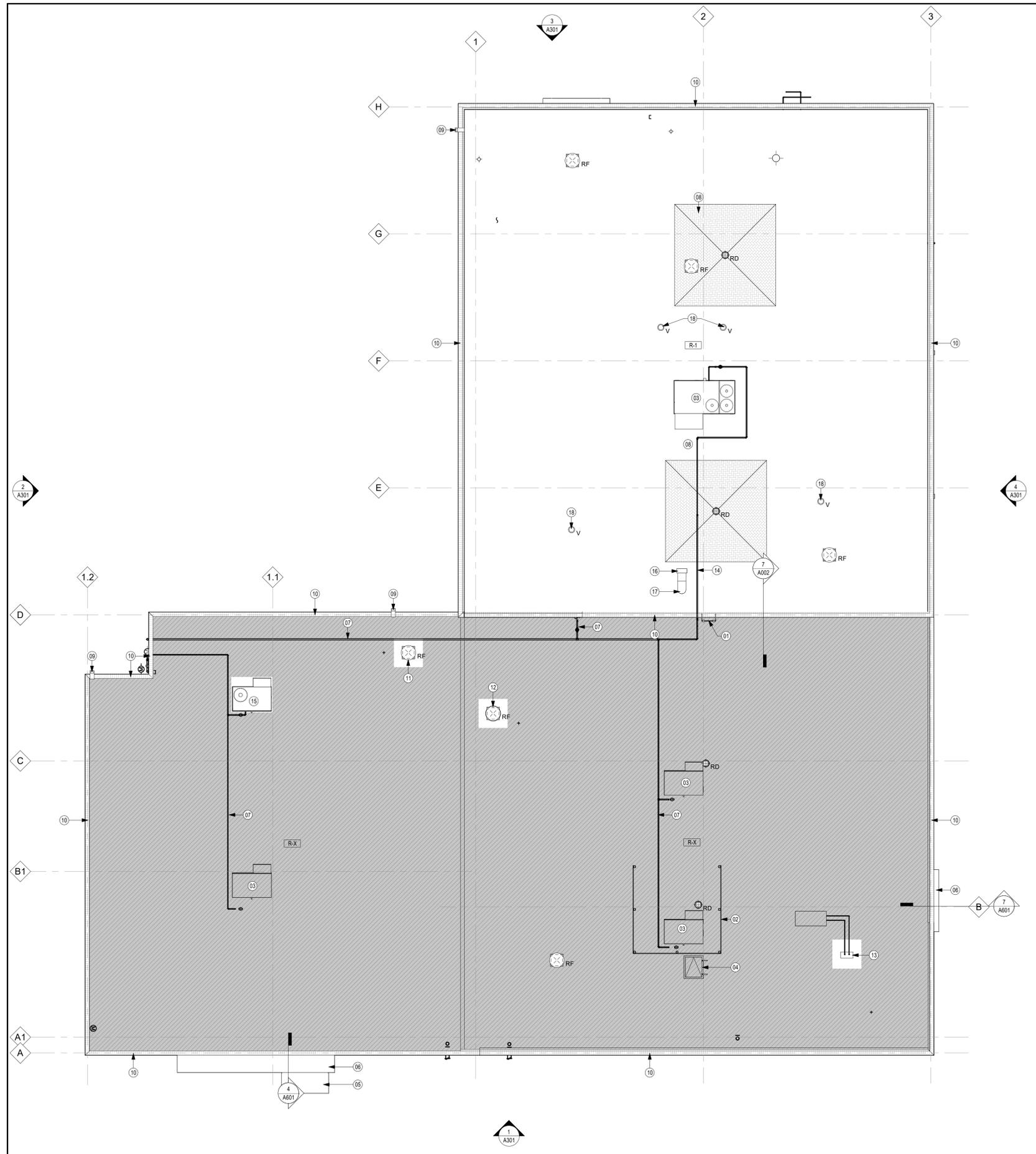
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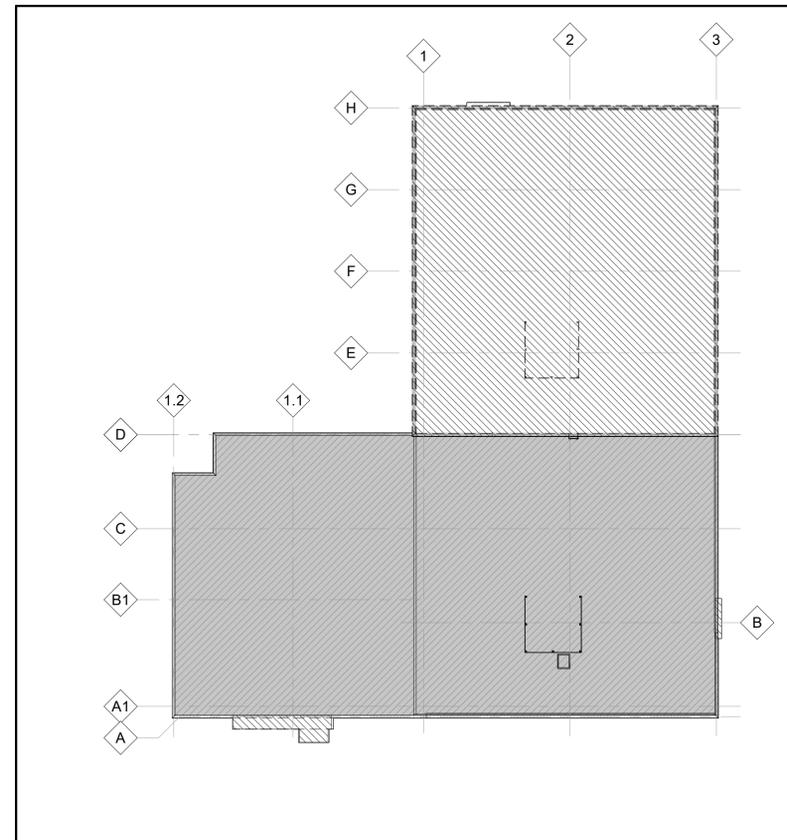
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DRAWN BY: EL, MA	
CHECKED BY: DE	

1 GROUND FLOOR - REFLECTED CEILING PLAN
A202 Scale: 1 : 100



1 ROOF PLAN
A203 Scale: 1 : 100



2 ROOF PLAN - DEMOLITION
A203 Scale: 1 : 250

ROOF LEGEND:

- HATCH DENOTES AREA NOT IN SCOPE OF WORK.
- HATCH DENOTES AREA OF ROOF DEMOLITION.
- ROOF ASSEMBLY TAG.
- ROOF FAN SITTING ON CURB BASE. REFER TO SPEC FOR DETAILS.
- ROOF DRAIN. REFER TO SPEC.
- ROOF VENT. REFER TO SPEC.
- ROOF PIPE PENETRATION. REFER TO SPEC.
- ROOF ANCHORS.
- PRECAST CONCRETE ROOF PAVERS c/w INSULATION SLEEPERS 1" THICK XPS MEMBRANE PROTECTION.
- ROOF ACCESS HATCH. REFER TO SPECIFICATION
- HIGH POINT
- TAPERED INSULATION 2% SLOPE (UNLESS OTHERWISE NOTED)

ROOF ASSEMBLY:

- EXISTING ROOFING TO REMAIN
- FLOOD COAT AND GRAVEL
4-PLY BUR ROOFING MEMBRANE
13 ASPHALT COATED ROOF SHEATHING FIBREBOARD
75 POLYISOCYANURATE INSULATION (R17mm),
VAPOUR BARRIER
EXISTING STEEL ROOF DECK TO REMAIN

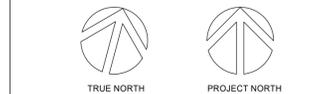
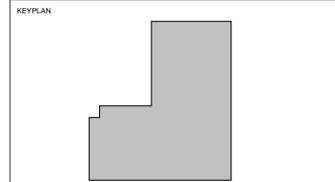
GENERAL ROOF NOTES:

- A. ROOF DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATIONS, ROOFING CONSULTANT DRAWINGS, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS
- B. ALL MECHANICAL AND ELECTRICAL ITEMS ON ROOF SUCH AS VENT STACKS, EXHAUST FANS, ROOF HOPPERS AND EQUIPMENT TO BE CAREFULLY COORDINATED WITH THE MECHANICAL AND ELECTRICAL DRAWINGS & SPECIFICATIONS. PROVIDE FOR ANY MECHANICAL AND ELECTRICAL ITEMS NOT SPECIFICALLY INDICATED ON THIS ROOF PLAN.
- C. ALL ROOF FLASHINGS ARE TO BE PREFINISHED AT ALL LOCATIONS THROUGHOUT UNLESS OTHERWISE NOTED.
- D. SIGN INDICATING ROOF LOAD RATE TO BE POSTED AT THE POINT OF ENTRY/ACCESS AS PER G-DHS - GLOBAL DESIGN FOR HEALTH AND SAFETY SPECIFICATIONS (LOAD TO BE CONFIRMED WITH STRUCTURAL PRIOR TO FABRICATION AND INSTALLATION OF SIGNAGE). PLACE SIGN ON WALL BESIDE ACCESS POINT OR ON INTERIOR OF BUILDING AT ROOF ACCESS DOOR. IF NO WALL IS PRESENT, MOUNT ON GUARDRAIL SYSTEM. COORDINATE WITH OWNER'S PROJECT MANAGER FOR SIZE AND DESIGN REQUIREMENTS.

DRAWING NOTES - ROOF

- 01 EXISTING EXTERIOR ACCESS ROOF LADDER TO REMAIN
- 02 EXISTING MECH EQUIPMENT SCREEN TO REMAIN
- 03 EXISTING MECH. RTU TO REMAIN. REFER TO MECHANICAL
- 04 EXISTING ROOF ACCESS HATCH TO REMAIN
- 05 EXISTING CANOPY BELOW
- 06 METAL GLAD ENTRANCE FEATURE BELOW
- 07 EXISTING GAS LINE TO REMAIN
- 08 PROVIDE TAPERED INSULATION TO DIRECT WATER AWAY FROM MECH CURBS, WHERE NECESSARY
- 09 REMOVE AND REPLACE EXISTING SCUPPER. COLOUR TO MATCH CAP FLASHING.
- 10 REMOVE AND DISPOSE OF EXISTING CAP FLASHING ON ALL PARAPETS. REPLACE WITH NEW. COLOUR TO MATCH BRICK STAIN, TO BE SELECTED.
- 11 REMOVE EXISTING ROOF ASSEMBLY AS REQUIRED FOR PROPOSED MECHANICAL EXHAUST FAN ROOF PENETRATION AND CURB. REFER TO MECHANICAL PATCH AND MAKE GOOD EXISTING ROOF ASSEMBLY. REFER TO ENGINEERING LINK DRAWINGS
- 12 EXISTING ROOF PENETRATION. REMOVE EXISTING ROOF ASSEMBLY AS REQUIRED FOR PROPOSED ROOF CURB BY MECHANICAL. REFER TO MECHANICAL PATCH AND MAKE GOOD EXISTING ROOF ASSEMBLY. REFER TO ENGINEERING LINK DRAWINGS.
- 13 PROPOSED DOGHOUSE FOR MECHANICAL/ELECTRICAL EQUIPMENT BY ROOFING CONTRACTOR. PATCH AND MAKE GOOD EXISTING ROOF ASSEMBLY AS REQUIRED. REFER TO MECHANICAL AND ENGINEERING LINK DRAWINGS.
- 14 EXISTING GAS LINE TO ON UPPER ROOF TO BE REPLACED. REFER TO MECHANICAL DRAWINGS
- 15 EXISTING ROOF TOP UNIT TO BE REPLACED IN SAME LOCATION. REFER TO MECHANICAL DRAWINGS.
- 16 EXHAUST FAN MOUNTED ON SLEEPERS. REFER TO MECHANICAL DRAWINGS.
- 17 DUCT THROUGH ROOF. REFER TO MECHANICAL DRAWINGS.
- 18 NEW VENT UP THROUGH ROOF. REFER TO MECHANICAL DRAWINGS.

NOTE:
THIS DRAWING IS FOR ROOF OVERVIEW AND REFERENCE ONLY. REFER TO ROOF CONSULTANT'S DRAWINGS AND SPECIFICATIONS, APPENDIX 'B' FOR ALL ROOF RELATED REQUIREMENTS



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1	ISSUED FOR REVIEW	2025-06-17
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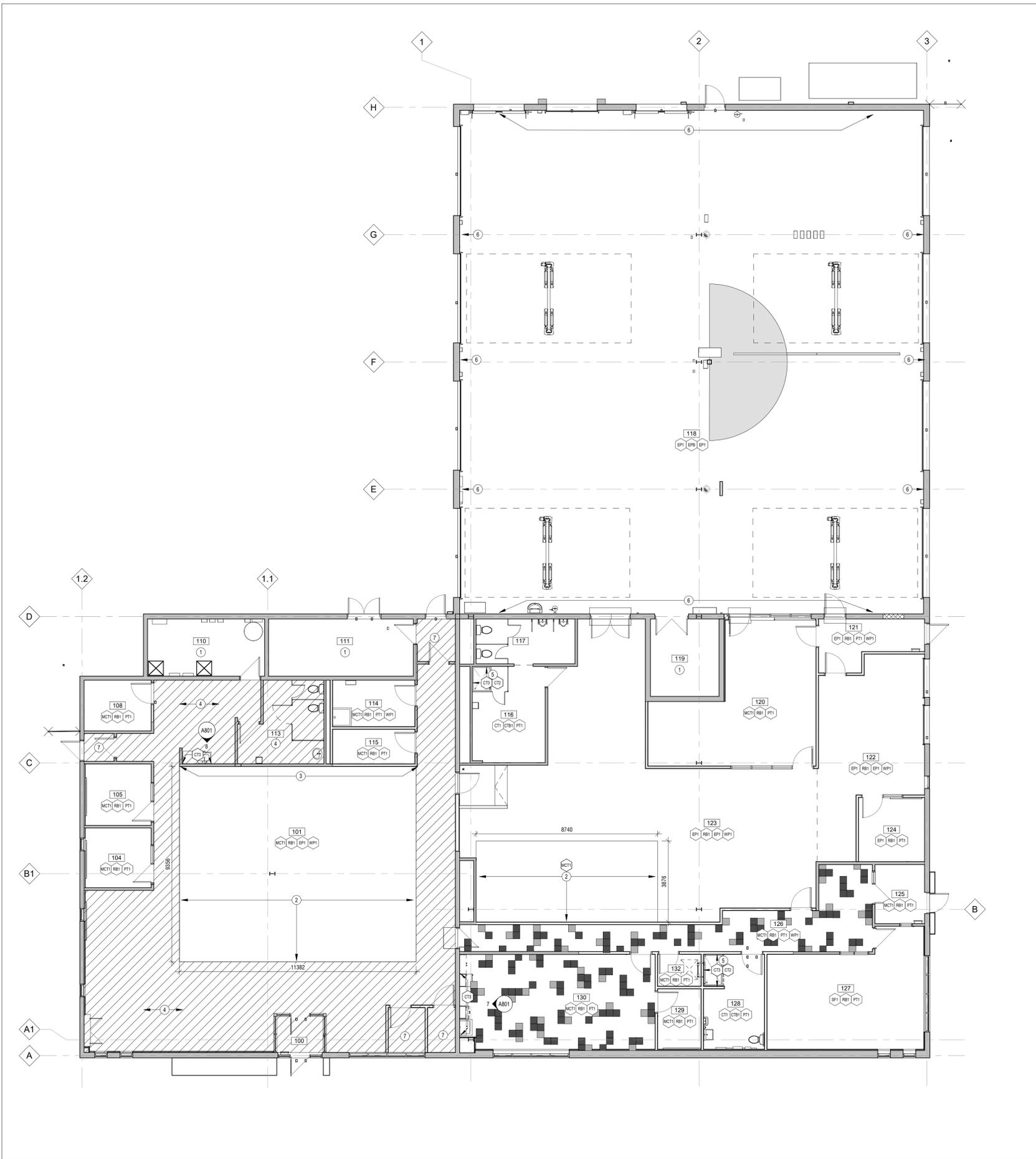
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DATE:	2025-06-10	A203
PROJECT NO.:	2024-1007-10	
DRAWN BY:	MA	
CHECKED BY:	DE	



GENERAL FINISH NOTES

- ALL INTERIOR FINISHES SHALL MEET ONTARIO BUILDING CODE. THE MAXIMUM FLAME SPREAD RATING AND THE SMOKE DEVELOPMENT OF INTERIOR WALLS AND CEILING FINISHES, SHALL NOT EXCEED THAT SET FORTH IN SECTION 3.1.13 AND 3.1.16 OF THE OBC.
- REFER TO SPECIFICATIONS, ALL INTERIOR FINISH NOTES, ELEVATIONS AND DETAILS FOR COMPLETE INTERIOR INFORMATION. REFER TO SPECIFICATIONS FOR ALL SUBMITTAL GUIDELINES AND REQUIREMENTS.
- ALL FINISHES ARE TO BE APPLIED IN STRICT ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS. REFERENCE MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR EACH FLOOR FINISH TYPE TO VERIFY REQUIREMENTS.
- CONTACT CONSULTANT FOR CLARIFICATION IN THE EVENT OF CONTRADICTORY INFORMATION BETWEEN DRAWINGS, LEGEND AND/OR SPECIFICATIONS. IF COLOUR OR FINISH IS NOT SPECIFIED, CONTACT CONSULTANT FOR CLARIFICATION.
- PROVIDE A SUBMITTAL SCHEDULE ALLOWING FOR LONG LEAD TIME ITEMS TO PREVENT SUBSTITUTIONS. CONTRACTOR IS TO NOTIFY THE CONSULTANT OF ANY LONG LEAD ITEMS GREATER THAN SIX WEEKS.
- ALIGN TRANSITION OF FLOOR MATERIAL WITH CENTER OF HINGE IN DOOR WAY FOR SWING DOORS AND INSIDE FACE OF WALL FOR SLIDING DOORS.
- APPLY CORNER GUARDS TO ALL EXPOSED CORNERS. REFER TO SPECIFICATION.
- FEATHER FLOOR AT ALL CHANGE IN MATERIAL TO ENSURE A LEVEL TRANSITION. PROVIDE TRANSITION STRIPS AT ALL JUNCTIONS OF NEW AND EXISTING FLOORING.
- PAINT GRILLS, WALL DIFFUSERS, ELECTRICAL PANELS, WALL MOUNTED BOXES, ACCESS PANELS, ETC., WHICH ARE EXPOSED IN FINISHED SPACES TO MATCH THE SURFACE ON WHICH THEY OCCUR. ALL EXISTING DOORS AND FRAMES TO BE RE-PAINTED TO MATCH ADJACENT WALL.
- SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
- PROVIDE MINIMUM 300mm CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR. PROVIDE MINIMUM 600mm CLEAR AT THE PULL SIDE OF EVERY DOOR, UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
- REFER TO FINISHES PLANS FOR WALL PROTECTION LOCATIONS.

FINISH LEGEND:

WALL & CEILING

- PT1 PAINT WHITE REFER TO FINISHES PLAN
- PT2 PAINT LIGHT GREY REFER TO FINISHES PLAN
- PT3 PAINT DARK GREY REFER TO FINISHES PLAN
- PT4 PAINT BLUE REFER TO FINISHES PLAN
- PT5 PAINT BLACK REFER TO FINISHES PLAN
- EP1 EPOXY PAINT IN PFT COLOUR

ARCHITECTURAL WOODWORK:

- PL1 PLASTIC LAMINATE MANUFACTURER: UNIBORD PRODUCT: K42 SWAY LOCATION: MILLWORK CABINETS
- QT1 QUARTZ COUNTERTOP MANUFACTURER: HANSTONE PRODUCT: RIDGE LOCATION: MILLWORK COUNTERTOPS

WALL PROTECTION:

- WP1 WALL PROTECTION PANELS REFER TO FINISHES SCHEDULE

BASE:

- RB1 RUBBER BASE MANUFACTURER: TARKETT PRODUCT: EXHIBIT BASE, DOVER
- EP1 EPOXY COVE BASE
- TS1 TRANSITION STRIP

FLOOR:

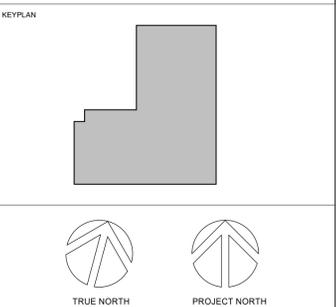
- MCT1 MARMOLEUM COMPOSITE TILE (FIELD) MANUFACTURER: FORBO PRODUCT: MARMOLEUM TILE MCT 621 DOVE GREY LOCATION: REFER TO PLAN
- MCT2 MARMOLEUM COMPOSITE TILE (ACCENT) MANUFACTURER: FORBO PRODUCT: MARMOLEUM TILE MCT 3251 LEMON ZEST LOCATION: ACCENT REFER TO PLAN
- MCT3 MARMOLEUM COMPOSITE TILE (ACCENT) MANUFACTURER: FORBO PRODUCT: MARMOLEUM TILE MCT 3030 BLUE LOCATION: ACCENT REFER TO PLAN
- SF1 SPORTS FLOORING MANUFACTURER: FORBO PRODUCT: MARMOLEUM SPORT 83110 DARK BLUE LOCATION: GYM
- EP1 EPOXY FLOOR COATING MANUFACTURER: STONHARD PRODUCT: STONCLAD GR CHARCOAL LOCATION: REFER TO PLAN

TILE:

- CT1 FLOOR TILE MANUFACTURER: CENTURA PRODUCT: CHAMONIX 12"x24" DARK GRAY MATTE #G8CX08R LOCATION: REFER TO FLOOR PLANS
- CT2 FLOOR TILE - MOSAIC MANUFACTURER: CENTURA PRODUCT: CHAMONIX 12"x12" DARK GRAY MATTE #G3CX08MO LOCATION: SHOWER FLOOR
- CT3 WALL TILE MANUFACTURER: CENTURA PRODUCT: RAINBOW 2"x8" GLOSSY WHITE #F128WHG LOCATION: SHOWER WALLS, BACKSPLASH
- CT4 CERAMIC TILE EXISTING TO REMAIN

FINISHES PLAN NOTES:

- EXISTING EXPOSED CONCRETE FLOOR TO REMAIN.
- MCT TILE TO BE INSTALLED ON TOP OF NEW HIGH-DENSITY STORAGE UNIT RAMP/SUBFLOOR. INSTALL IN ACCORDANCE WITH HIGH DENSITY STORAGE UNIT SPECIFICATIONS.
- INSTALL NEW RUBBER WALL BASE
- HATCHED AREA DENOTES EXISTING CERAMIC TILE AND WALL BASE TO REMAIN
- WALL TILE TO BE INSTALLED FULL HEIGHT ON INDICATED SHOWER WALLS
- EPOXY COVE BASE TO CONTINUE UP EXISTING BLOCK WALLS TO 4'-0" AFF
- NO WALL PROTECTION REQUIRED WITHIN THIS ROOM



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-02-25
2	ISSUED FOR SD REPORT	2025-03-19
3	ISSUED FOR REVIEW	2025-06-17
4	ISSUED FOR BID REVIEW	2025-08-22
5	ISSUED FOR BID PERMIT	2025-09-05
6	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
FINISHES PLAN

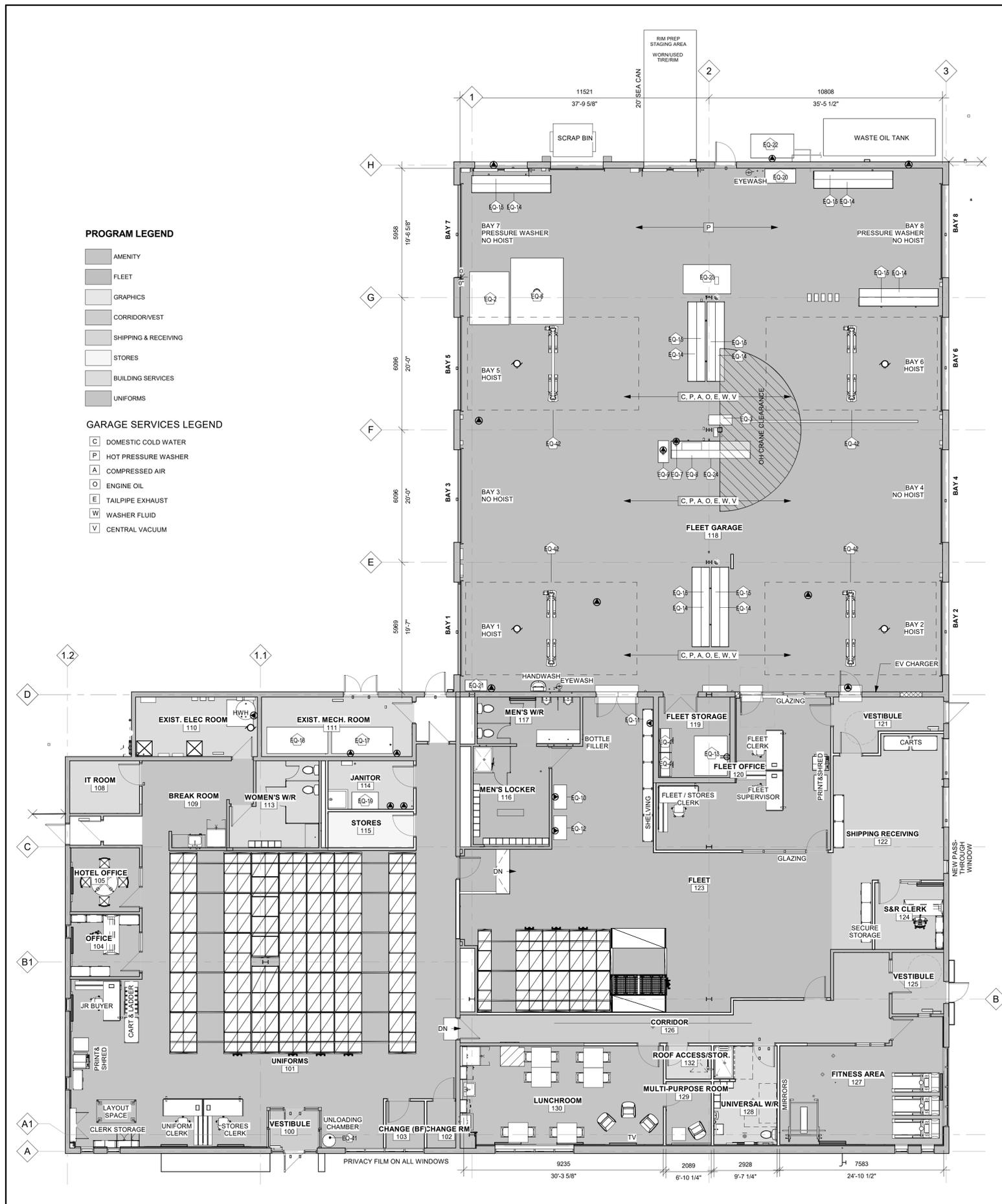
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SCALE:	AS NOTED	SHEET NO.:	A204
DATE:	2025-02-05		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	EL		
CHECKED BY:	DE		

1 GROUND FLOOR - FINISHES PLAN
A204 Scale: 1 : 100



PROGRAM LEGEND

- AMENITY
- FLEET
- GRAPHICS
- CORRIDOR/VEST
- SHIPPING & RECEIVING
- STORES
- BUILDING SERVICES
- UNIFORMS

GARAGE SERVICES LEGEND

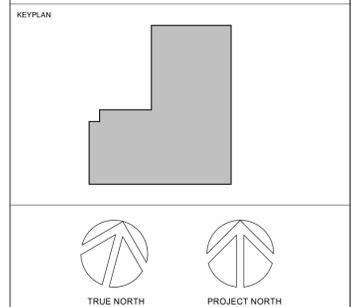
- C DOMESTIC COLD WATER
- P HOT PRESSURE WASHER
- A COMPRESSED AIR
- O ENGINE OIL
- E TAILPIPE EXHAUST
- W WASHER FLUID
- V CENTRAL VACUUM

EQUIPMENT SCHEDULE (SHOWN ON PLAN)

TAG	NAME	MANUFACTURER	OWNER	MODEL	DESCRIPTION	DIMENSIONS	MECH.	ELEC REQUIREMENTS	QTY	COMMENTS
EQ-1	TIRE LIFT	ATLAS	X		Relocated			No Electrical Connection Required	2	
EQ-2	1250 WHEEL BALANCER	COATS		1250SD	New			20A/220V/1Ph Receptacle connection	1	Preferred model Hunter. This item needs to be replaced. Tech's are currently working on a generic specification
EQ-3	HYDRAULIC PRESS	DAKE			New			Need specific model. Available in different voltages and...	1	
EQ-4	FLAMMABLE STORAGE CABINET			46 GAL. 2 DOOR, YELLOW		43" W x 65" H x 18" D		No Electrical Connection Required	2	
EQ-5	SKATE SYSTEM	GOJAK						No Electrical Connection Required	1	
EQ-6	TIRE MACHINE	HUNTER	X	TCX57	Relocated			0.76kW, 208-230VAC, 1Ph	0	
EQ-7	PLASMA CUTTER	HYPER THERM	X		Relocated			Need specific model. Available in different voltages and...	0	located on fabrication bench
EQ-8	CHOP SAW	MAKITA	X		Relocated			15A/120V/1Ph Receptacle connection	0	Power requirements MUST be 20 Amp service
EQ-9	MIG WELDER	MILLER	X		Relocated			Need specific model. Available in different voltages and...	0	located on bench. Power requirements MUST be 220 V, 50 Amp service. 3 Outlets to be spaced out in the shop 1 outlet to service 2 bays.
EQ-10	A/C R-1234Y1 MACHINE	ROBNAIR			IN OFFICE NEAR SHELVING			Operating voltage - 115-127V, 60Hz AC	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central Fleet
EQ-11	AIR A/C VACUUM PUMP & SCALE	ROBNAIR			IN OFFICE NEAR SHELVING			Need specific model. Available in different voltages and...	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central Fleet
EQ-12	AIR COOL TECH 3478B A/C MACHINE	ROBNAIR			IN OFFICE NEAR SHELVING			Nominal Voltage Model 3478: 115V, 60 Hz Model 3478B: 230V	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central Fleet
EQ-13a	SANDBLASTING UNIT		X		Relocated	2x6'	COMPRESSED AIR	1/2hp, 8.4A @120V/1Ph 15A Receptacle	1	COORDINATE COMPRESSED AIR CONNECTION TYPE AND SIZING WITH EXISTING OWNER EQUIPMENT.
EQ-13b	DUST COLLECTOR		X			12'W x 48 3/8"D x 19'D		Need specific requirements. Assume 15A/120V/1Ph.	1	cut sheet provided - must be generic product. Power requirements for each bench is 2 outlets per bench - 120 V, 20 amp service
EQ-14	WORKBENCH							Does this require lighting? Yes	7	
EQ-15	WORKBENCH UPPER CABINET									
EQ-16	VEHICLE EXHAUST EXTRACTION	MONOXVENT			EXHAUST FAN EF-4 COMPLETE WITH DUCT DISTRIBUTION TO HOSE REELS.			575/360, 2HP		REFER TO MECHANICAL EXHAUST FAN SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.
EQ-17A	AIR COMPRESSOR	DV SYSTEMS			PISTON TYPE AIR COMPRESSOR COMPLETE WITH PIPING DISTRIBUTION TO HOSE REELS.			200V/3P/60HZ		REFER TO MECHANICAL AIR COMPRESSOR SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.
EQ-17B	AIR DRYER	DV SYSTEMS			AIR DRYER AND FILTRATION PACKAGE FOR AIR COMPRESSOR			120V/1P/60HZ		REFER TO MECHANICAL AIR COMPRESSOR SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.
EQ-18A	ENGINE OIL SUPPLY TANK	WALECO			1,500 LITRE DOUBLE WALL OIL TANK					REFER TO MECHANICAL FLUID TANK SCHEDULE.
EQ-18B	ENGINE OIL SUPPLY PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.		44 SCFM COMPRESSED AIR, NPS 1/2			REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.
EQ-19A	PRESSURE WASHER PUMP	PSC			20 HP 12 GPM PUMP COMPLETE WITH VFD, AND PIPE DISTRIBUTION TO HOSE REELS.		NPS 1 NON POTABLE COLD WATER	575/360, 20A		REFER TO MECHANICAL PRESSURE WASHER SCHEDULE.
EQ-19B	PRESSURE WASHER HEATER	PSC			72 KW ELECTRIC HEAT EXCHANGER			575/360, 72A		REFER TO MECHANICAL PRESSURE WASHER SCHEDULE.
EQ-20A	ENGINE OIL WASTE TANK	HASSCO			1100 LITRE DOUBLE WALL WASTE OIL TANK					REFER TO MECHANICAL FLUID TANK SCHEDULE.
EQ-20B	ENGINE OIL WASTE PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPING TO WASTE OIL TANK.		40 SCFM COMPRESSED AIR, NPS 1/2			REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.
EQ-21A	WASHER FLUID TANK				200 LITRE WASHER FLUID TANK					REFER TO MECHANICAL FLUID TANK SCHEDULE.
EQ-21B	WASHER FLUID PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.		40 SCFM COMPRESSED AIR, NPS 1/2			REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.
EQ-22	CENTRAL VACUUM	EUROVAC			10 HP BLOWERS COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.			208V/3P 10 HP		REFER TO MECHANICAL CENTRAL VACUUM SCHEDULE. THIS SYSTEM IN ITS ENTIRETY TO BE INCLUDED IN TENDER AS A SEPARATE PRICE.
EQ-23	MOTORCYCLE HOIST					hoist 4' 5" x 7' 3" Ramp portion 33" x 18"				
EQ-24	FABRICATION WORKBENCH - WELDER AND PRESS					12' x 3'				PLASMA CUTTER, MIG WELDER, CHOP SAW LOCATED ON BENCH
EQ-41	UNLOADING CHAMBER		X							
EQ-42	VEHICLE HOIST				ROTARY, MODEL # SP0A10N8T0			208-230V		INCLUDE 3-STAGE TRIO ARMS, FLIP UP ADAPTERS, TRUCK ADAPTERS, ROUND ADAPTERS

EQUIPMENT SCHEDULE (ITEMS NOT SHOWN ON PLAN)

TAG	NAME	MANUFACTURER	MODEL	DESCRIPTION	DIMENSIONS	MECH.	ELEC REQUIREMENTS	QTY	COMMENTS
EQ-25	BATTERY BOOSTER PACKS			Relocated			15A/120V/1Ph Receptacle connection	4	No space requirement, wall mounted
EQ-26	BATTERY CHARGER			Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, sitting on bench
EQ-27	STRUT COMPRESSOR	BRANICK		Relocated			No Electrical Connection Required	2 (0)	No space requirement, wall mounted.
EQ-28	BREAK OUT BOXES	CHRYSLER & FORD		Relocated				0	No space requirement
EQ-29	COOLING SYSTEM TESTER			Relocated			No Electrical Connection Required	0	No space requirement
EQ-30	TPS SCANNER			Relocated				0	No space requirement
EQ-31	PARTS CLEANER			Relocated				0	No space requirement
EQ-32	SHOP VAC CONTRACTOR	SHOP VAC		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, mobile
EQ-33	BREAK OUT BOX	SNAP ON		Relocated			Operating Voltage: 115-208V AC Maximum Load: 3A	0	No space requirement
EQ-34	FLOOR JACK	SNAP ON		Relocated			No Electrical Connection Required	0	No space requirement
EQ-35	SCANNER	SNAP ON		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement
EQ-36	SAWZALL	MILWAUKEE		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, cordless units.
EQ-37	MOBILE TOOL BOXES	MILWAUKEE		Relocated			No Electrical Connection Required	0	No space requirement
EQ-38	MINUTE MAN PLUS AVR TESTER	OTC		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement
EQ-39	BALL JOINT PRESS	OTC		Relocated			No Electrical Connection Required	0	No space requirement
EQ-40	BATTERY CHARGING STATION	PRO LOGIX		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement



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1	ISSUED FOR REVIEW	2025-02-25
2	ISSUED FOR SD REPORT	2025-03-19
3	ISSUED FOR REVIEW	2025-04-08
4	ISSUED FOR REVIEW	2025-05-29
5	ISSUED FOR REVIEW	2025-06-17
6	ISSUED FOR REVIEW	2025-06-25
7	ISSUED FOR BID REVIEW	2025-08-22
8	ISSUED FOR BID REVIEW	2025-09-05
9	ISSUED FOR BID AND PERMIT	2025-12-03

CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

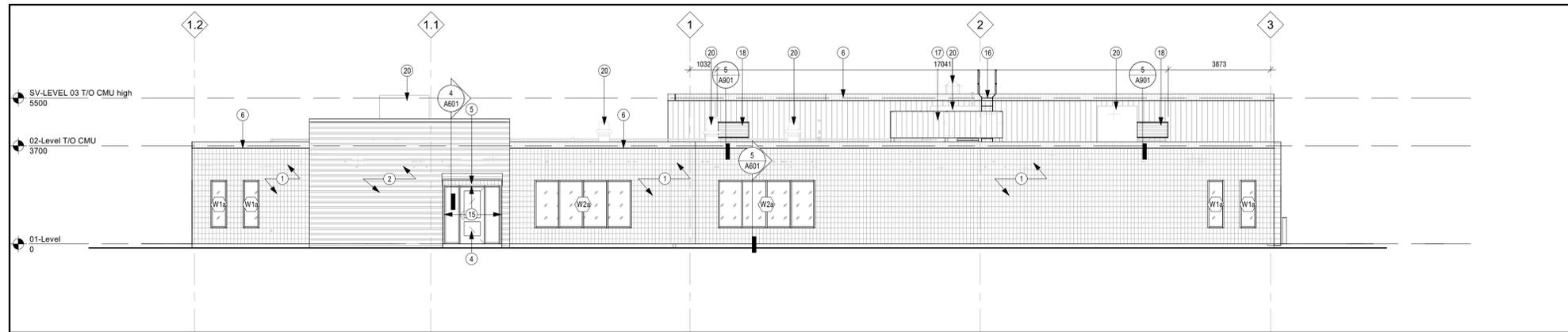
FURNITURE & EQUIPMENT PLAN, EQUIPMENT SCHEDULE

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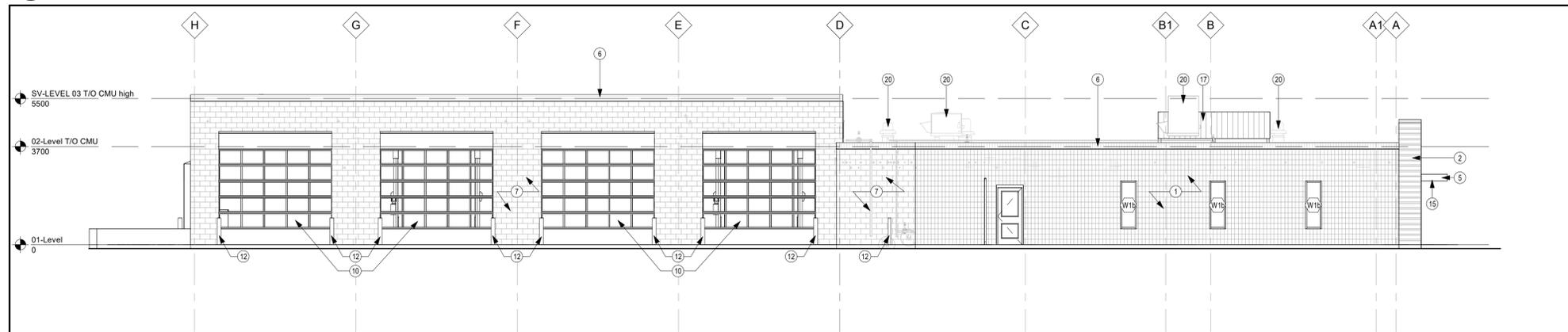


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SCALE: AS NOTED SHEET NO: A205
DATE: 2025-02-05
PROJECT NO: 2024-1007-10
DRAWN BY: EL
CHECKED BY: DE

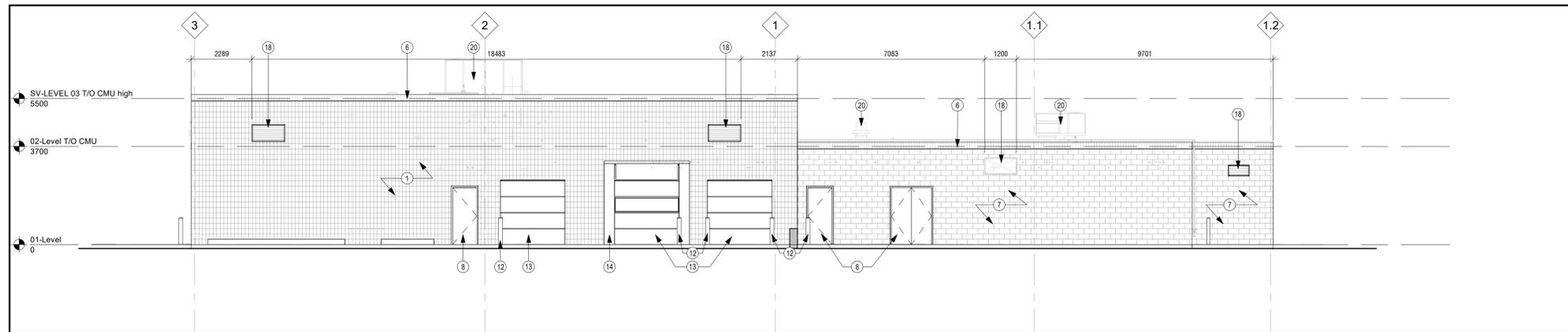
1 FURNITURE AND EQUIPMENT PLAN
A205 Scale: 1 : 100



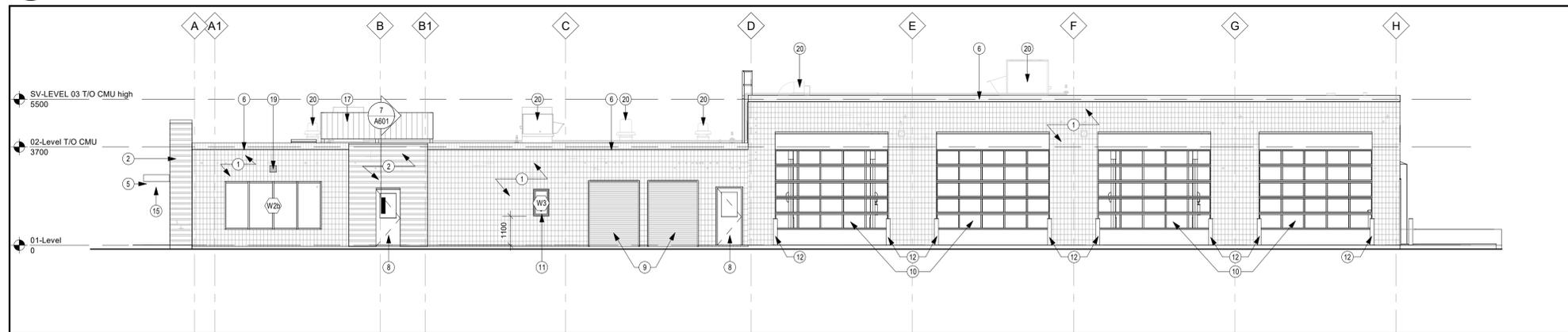
1 EXTERIOR ELEVATION - SOUTH
A301 Scale: 1 : 100



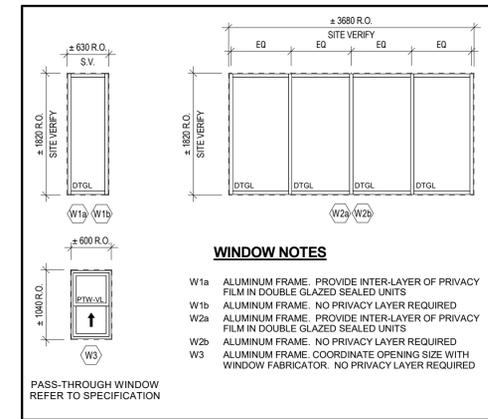
2 EXTERIOR ELEVATION - WEST
A301 Scale: 1 : 100



3 EXTERIOR ELEVATION - NORTH
A301 Scale: 1 : 100



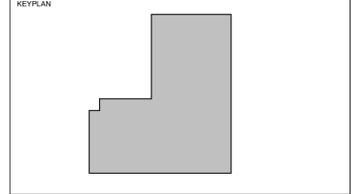
4 EXTERIOR ELEVATION - EAST
A301 Scale: 1 : 100



5 WINDOW ELEVATIONS
A301 Scale: 1 : 50

- WINDOW NOTES**
- W1a ALUMINUM FRAME. PROVIDE INTER-LAYER OF PRIVACY FILM IN DOUBLE GLAZED SEALED UNITS
 - W1b ALUMINUM FRAME. NO PRIVACY LAYER REQUIRED
 - W2a ALUMINUM FRAME. PROVIDE INTER-LAYER OF PRIVACY FILM IN DOUBLE GLAZED SEALED UNITS
 - W2b ALUMINUM FRAME. NO PRIVACY LAYER REQUIRED
 - W3 ALUMINUM FRAME. COORDINATE OPENING SIZE WITH WINDOW FABRICATOR. NO PRIVACY LAYER REQUIRED
- PASS-THROUGH WINDOW**
REFER TO SPECIFICATION
- ELEVATION NOTES**
- 1 ALL EXISTING BRICK TO BE CLEANED AND RE-POINTED IN AREAS REQUIRING REPAIR. PROVIDE SEPARATE PRICE FOR BRICK TO BE STAINED - COLOUR TO BE SELECTED.
 - 2 REPLACE EXISTING SIDING WITH PROPOSED SIDING TO BE INSTALLED ON EXISTING SUB-STRUCTURE
 - 4 EXISTING ENTRY SCREEN TO REMAIN
 - 5 EXISTING CANOPY TO BE RE-CLAD WITH FASCIA AND CAP FLASHING.
 - 6 EXISTING ROOF GAP FLASHING TO BE REMOVED AND DISPOSED OF. REPLACE WITH NEW. REFER VTO SPECIFICATIONS.
 - 7 EXISTING CONCRETE BLOCK TO BE REPAIRED AND RE-POINTED AS NEEDED IN AREAS IDENTIFIED BY BCA REPORT?
 - 8 THERMALLY BROKEN INSULATED HM DOOR AND FRAME. REFER TO DOOR SCHEDULE.
 - 9 EXISTING OVERHEAD ROLL-UP DOORS TO BE REMOVED AND DISPOSED OF. REPLACE WITH NEW ROLL-UP DOOR IN EXISTING OPENING. REFER TO DOOR SCHEDULE AND SPECIFICATION.
 - 10 EXISTING OVERHEAD SECTIONAL DOORS TO REMAIN. PROVIDE NEW WEATHER-STRIP SEALS. PROVIDE AN ALLOWANCE FOR REPLACING DAMAGED GLASS PANELS AS REQUIRED (AT LEAST THREE PANELS HAVE BEEN IDENTIFIED FOR REPLACEMENT).
 - 11 PROVIDE PROPOSED PASS-THROUGH WINDOW IN NEW OPENING CUT IN EXISTING WALL
 - 12 EXISTING BOLLARD TO REMAIN
 - 13 EXISTING OVERHEAD DOOR TO REMAIN - PAINT
 - 14 EXISTING DOCK ENCLOSURE TO REMAIN ??
 - 15 INTERIOR OF ALCOVE - SOFFIT AND VERTICAL FACES TO BE RECLAD. MATERIAL AND FINISH TO BE DECIDED. EXISTING SUBSTRATE STRUCTURE TO REMAIN.
 - 16 EXISTING ROOF LADDER TO REMAIN
 - 17 EXISTING ROOF TOP SCREEN TO REMAIN
 - 18 LOUVER - REFER TO MECHANICAL
 - 19 INFILL EXISTING MECH. DUCT OPENING IN WALL. REFER TO MECHANICAL. PATCH AND MAKE GOOD. MATCH EXISTING.
 - 20 MECHANICAL ROOF TOP EQUIPMENT. REFER TO ROOF PLAN AND MECHANICAL.

- MATERIALS LEGEND:**
- INTER-LAYER OF PRIVACY FILM IN ALL DOUBLE GLAZED SEALED UNITS ON SOUTH ELEVATION WINDOWS W1a & W2a
 - EXISTING CONCRETE BLOCK TO BE REPAIRED AND REPOINTED AS NEEDED IN AREAS IDENTIFIED BY BCA REPORT
 - EXISTING BRICK TO BE REPAIRED AND REPOINTED IN AS NEEDED. STAIN ENTIRE SURFACE - COLOUR TO BE SELECTED
 - EXISTING VERTICAL METAL SIDING TO REMAIN
 - EXISTING METAL SIDING TO BE REMOVED AND REPLACED WITH NEW METAL SIDING PROFILE AND COLOUR TO BE SELECTED



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-06-17
2	ISSUED FOR REVIEW	2025-08-22
3	ISSUED FOR BID REVIEW	2025-09-05
4	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
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PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
EXTERIOR ELEVATIONS

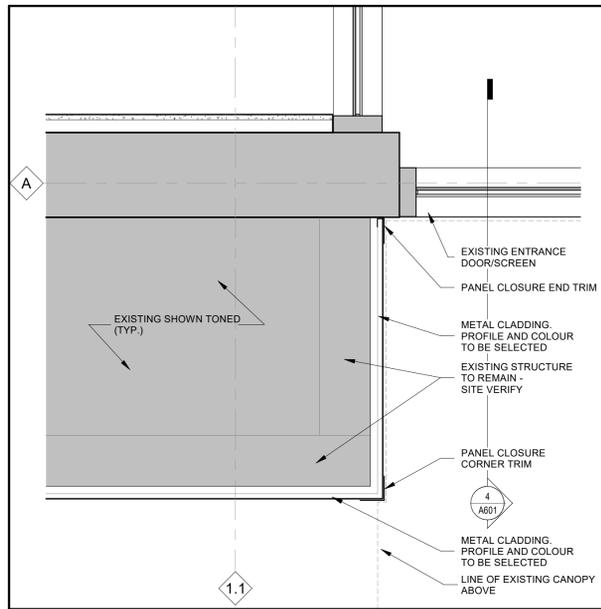
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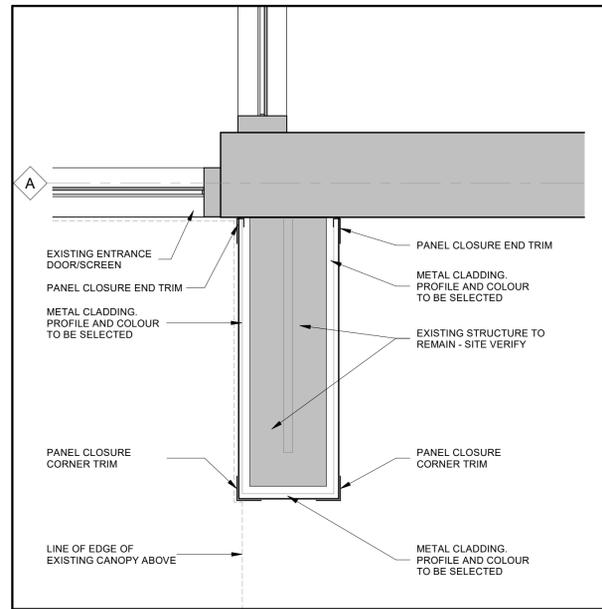
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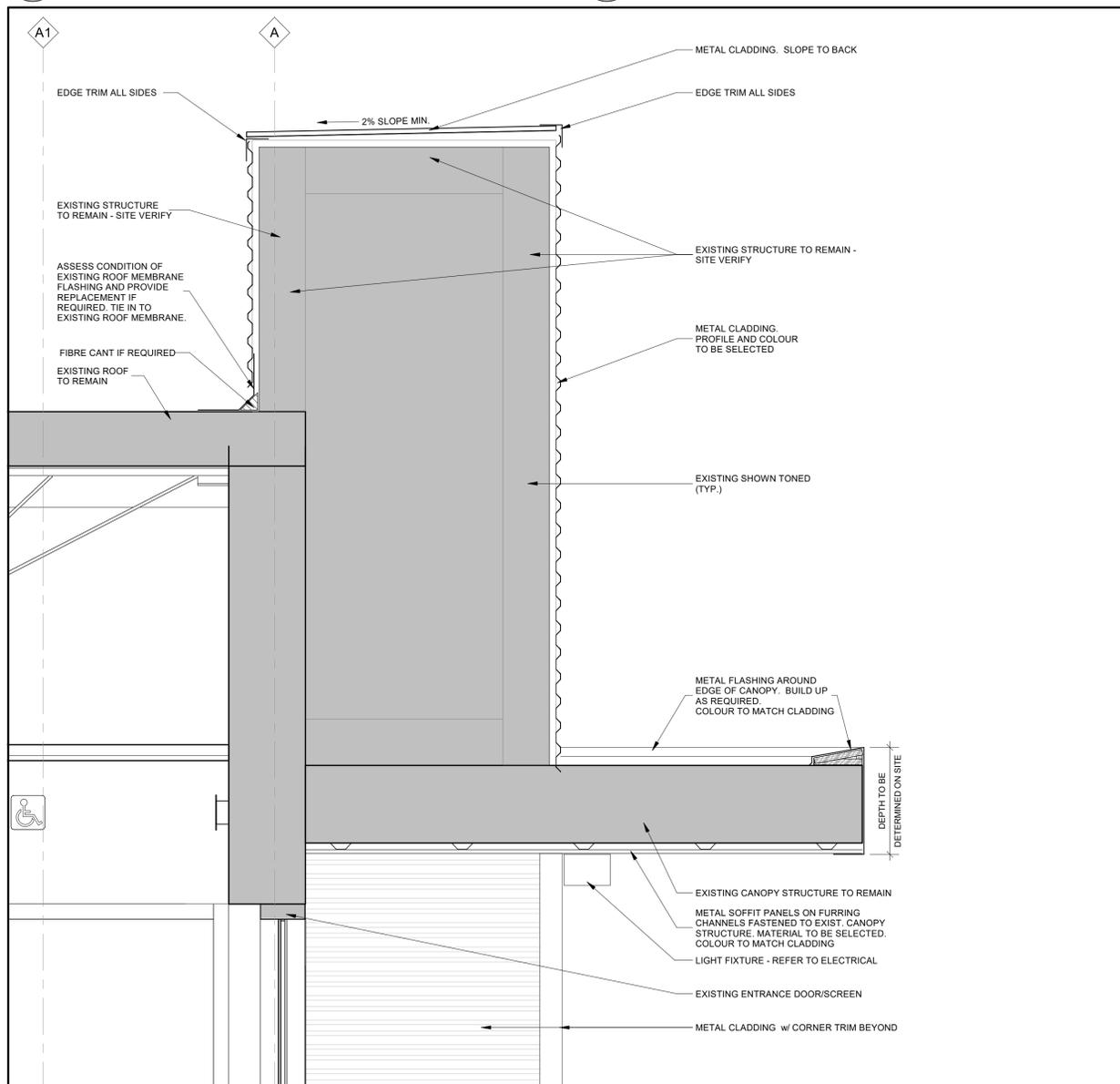
SCALE: AS NOTED	SHEET NO: A301
DATE: 2025-02-26	
PROJECT NO: 2024-1007-10	
DRAWN BY: MA, VW	
CHECKED BY: DE	



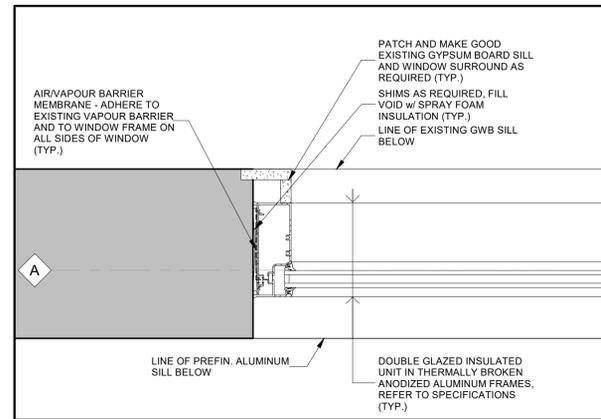
1 PLAN DETAIL
A601 Scale: 1:10



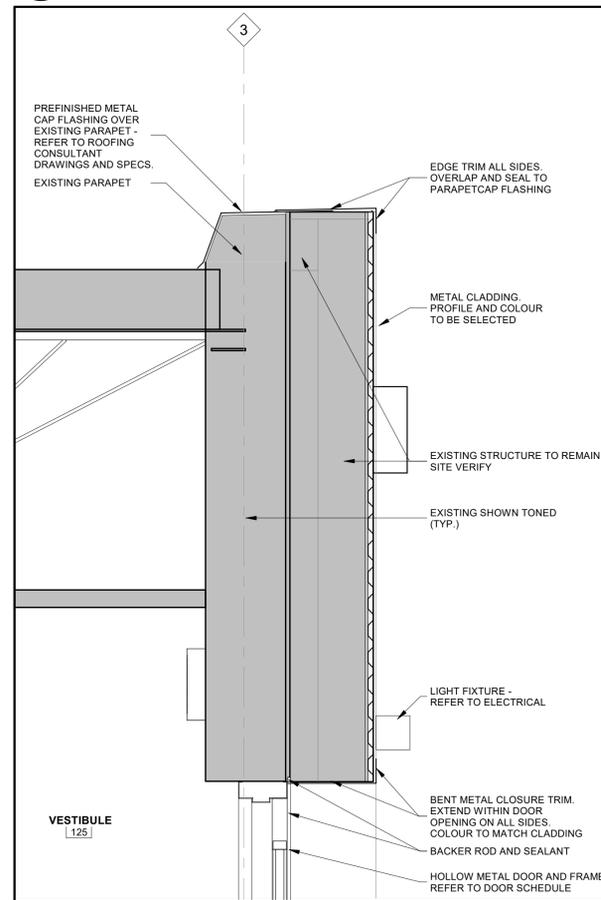
2 PLAN DETAIL
A601 Scale: 1:10



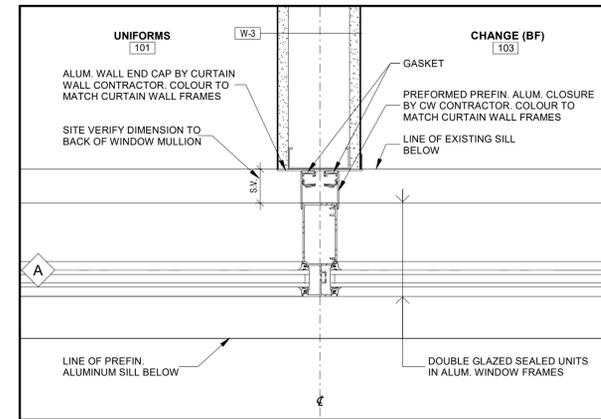
4 SECTION DETAIL
A601 Scale: 1:10



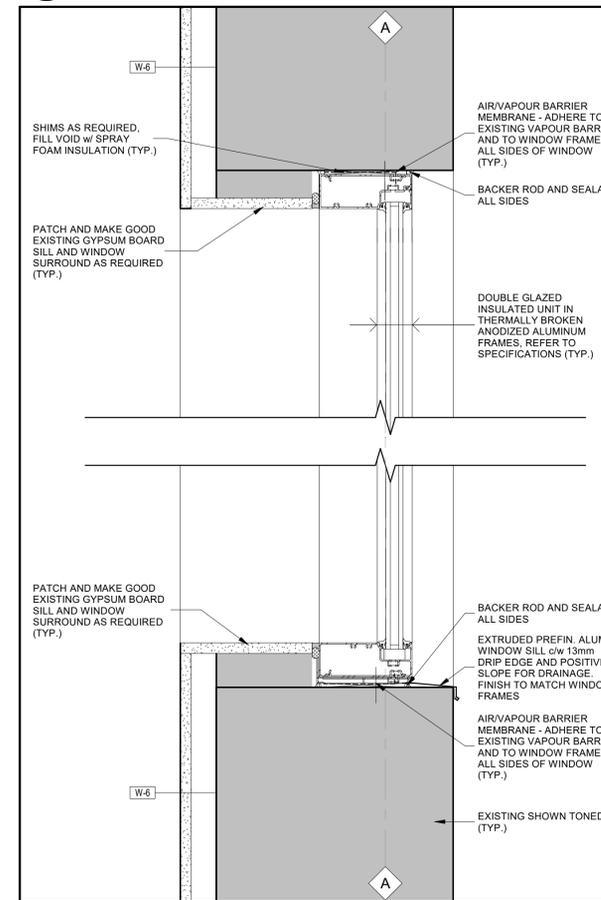
6 PLAN DETAIL
A601 Scale: 1:5



7 SECTION DETAIL
A601 Scale: 1:10



3 PLAN DETAIL
A601 Scale: 1:5



5 SECTION DETAIL
A601 Scale: 1:5



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

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HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

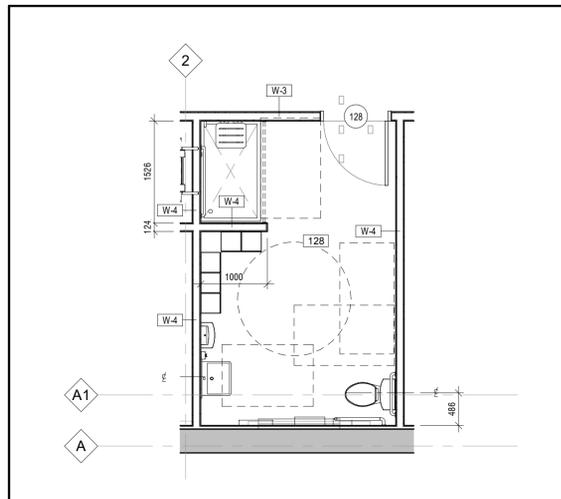
TITLE
PLAN AND SECTION DETAILS

WALTERFEDY
TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON
800.685.1378 walterfedy.com

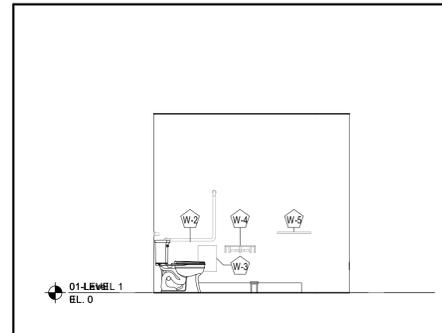


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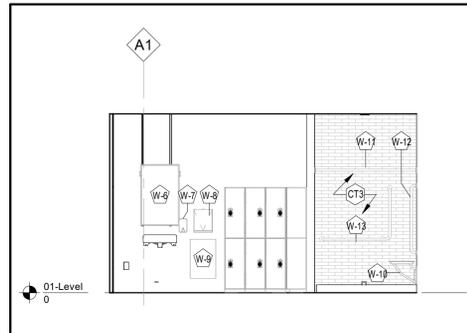
SCALE:	AS NOTED	SHEET NO.:
DATE:	2025-08-	A601
PROJECT NO.:	2024-1007-10	
DRAWN BY:	MA	
CHECKED BY:	DE	



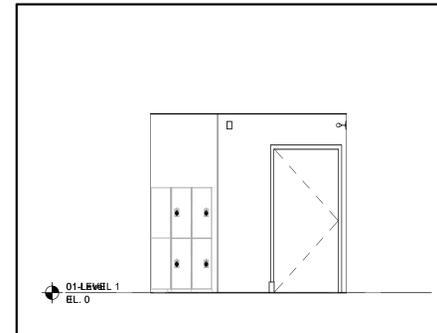
1 UNIVERSAL WASHROOM - ENLARGED PLAN
A801 Scale: 1 : 50



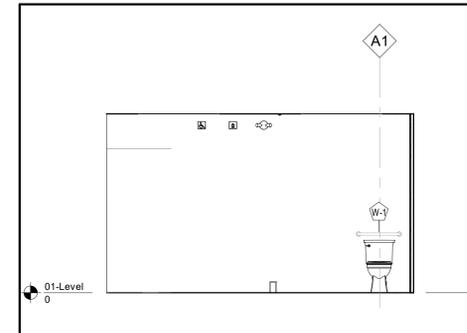
2 ELEVATION A - UNIVERSAL WASHROOM
A801 Scale: 1 : 50



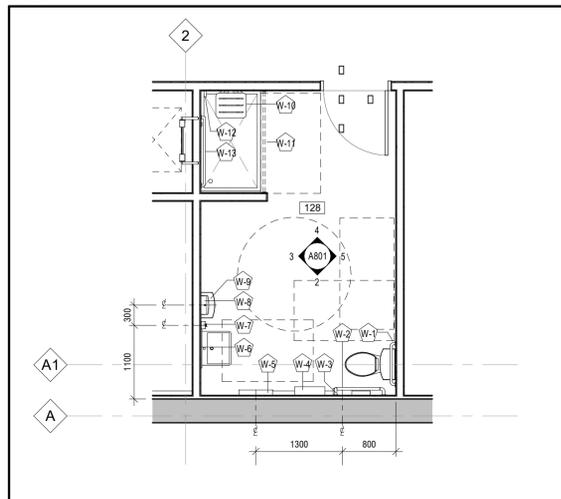
3 ELEVATION B - UNIVERSAL WASHROOM
A801 Scale: 1 : 50



4 ELEVATION C - UNIVERSAL WASHROOM
A801 Scale: 1 : 50



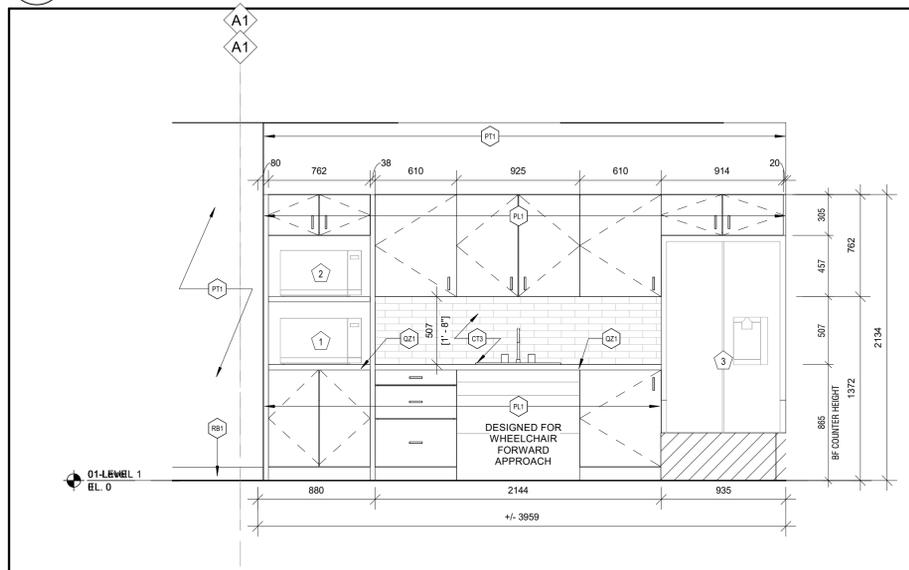
5 ELEVATION D - UNIVERSAL WASHROOM
A801 Scale: 1 : 50



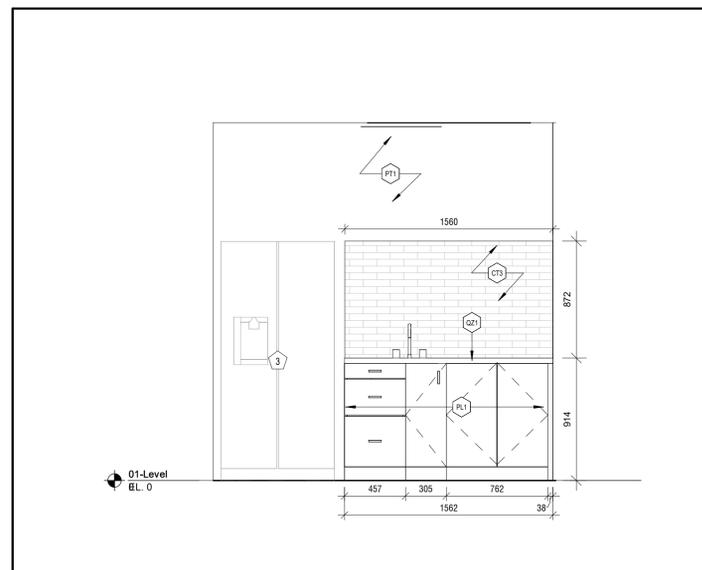
6 UNIVERSAL WASHROOM - ENLARGED FF&E PLAN
A801 Scale: 1 : 50

WASHROOM ACCESSORIES SCHEDULE			
W-1	STRAIGHT GRAB BAR (HORIZONTAL)		REFER TO SPEC SECTION 10 28 13
W-2	L SHAPED GRAB BAR		REFER TO SPEC SECTION 10 28 13
W-3	SANITARY WASTE DISPOSAL	WTR04731A	American Specialties Inc.
W-4	TOILET TISSUE DISPENSER	WTR07104	American Specialties Inc.
W-5	SHELF	950-4x18	Frost
W-6	MIRROR	WTR0602436	American Specialties Inc.
W-7	SOAP DISPENSER	DIEDWIH51LDS	SC Johnson Professional
W-8	PAPER TOWEL DISPENSER	FRT107	Frost
W-9	WASTE RECEPTACLE	WTR0828	American Specialties Inc.
W-10	FOLDING SHOWER SEAT	8203	American Specialties Inc.
W-11	SHOWER ROD AND CURTAIN	WTR120460, WTR1200V72	American Specialties Inc.
W-12	STRAIGHT GRAB BAR (VERTICAL)		REFER TO SPEC SECTION 10 28 13
W-13	L SHAPED GRAB BAR (SHOWER)		REFER TO SPEC SECTION 10 28 13

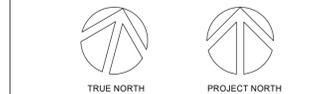
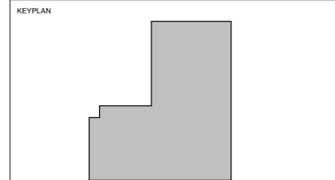
EQUIPMENT SCHEDULE			
1	TOASTER OVEN	-	BY OWNER, INSTALLED BY CONTRACTOR
2	MICROWAVE	-	BY OWNER, INSTALLED BY CONTRACTOR
3	REFRIGERATOR	-	BY OWNER, INSTALLED BY CONTRACTOR



7 LUNCHROOM ELEVATION
A801 Scale: 1 : 25



8 BREAKROOM ELEVATION
A801 Scale: 1 : 25



No.	ISSUANCE	DATE
1	ISSUED FOR REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

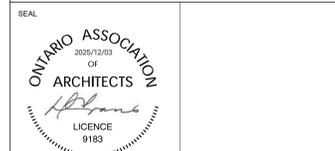
PROJECT
HPS FLEET SERVICES BUILDING RENOVATION

371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
ENLARGED WASHROOM PLANS & ELEVATIONS

WALTERFEDY
TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON

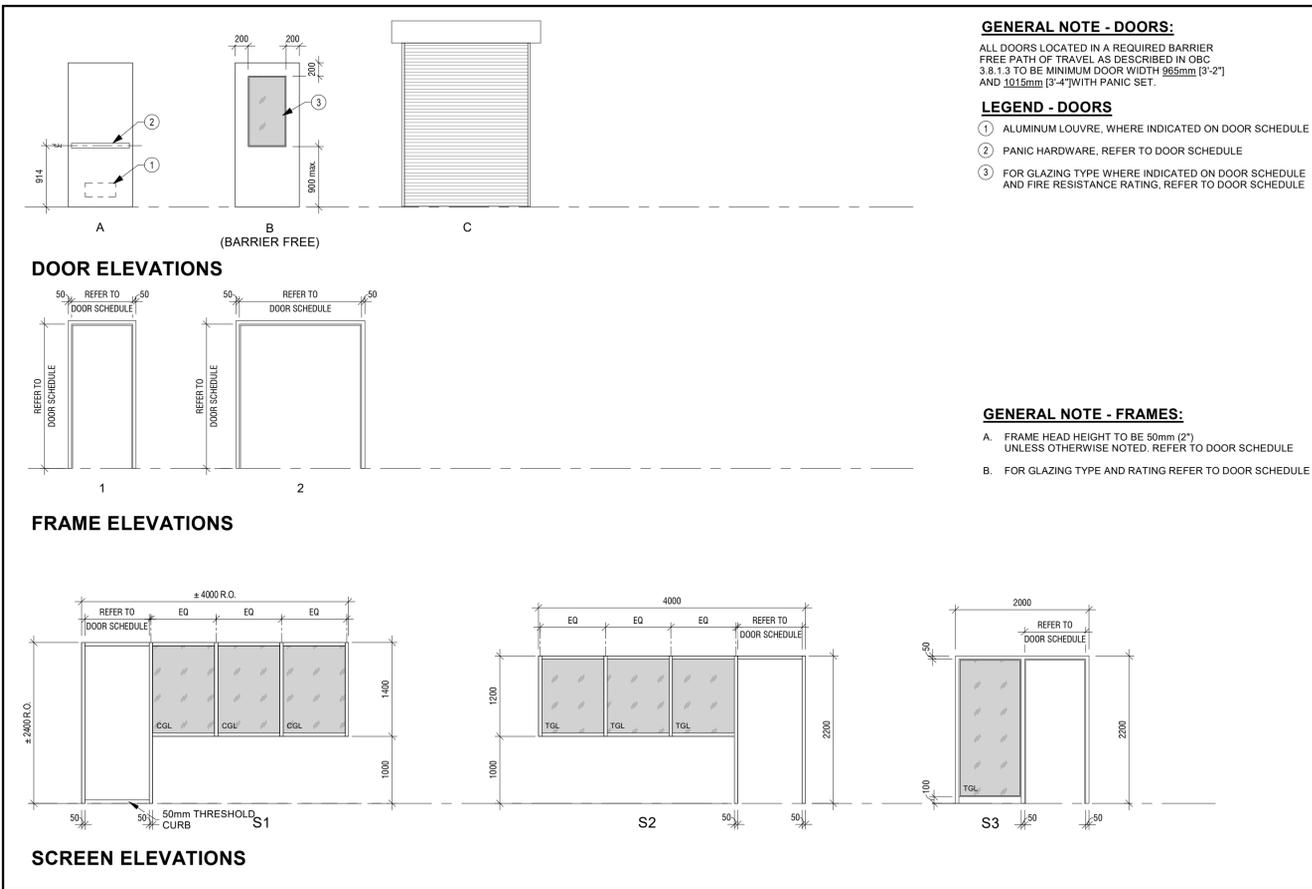
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SCALE:	AS NOTED	SHEET NO.:	A801
DATE:	2025-08-		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	EL		
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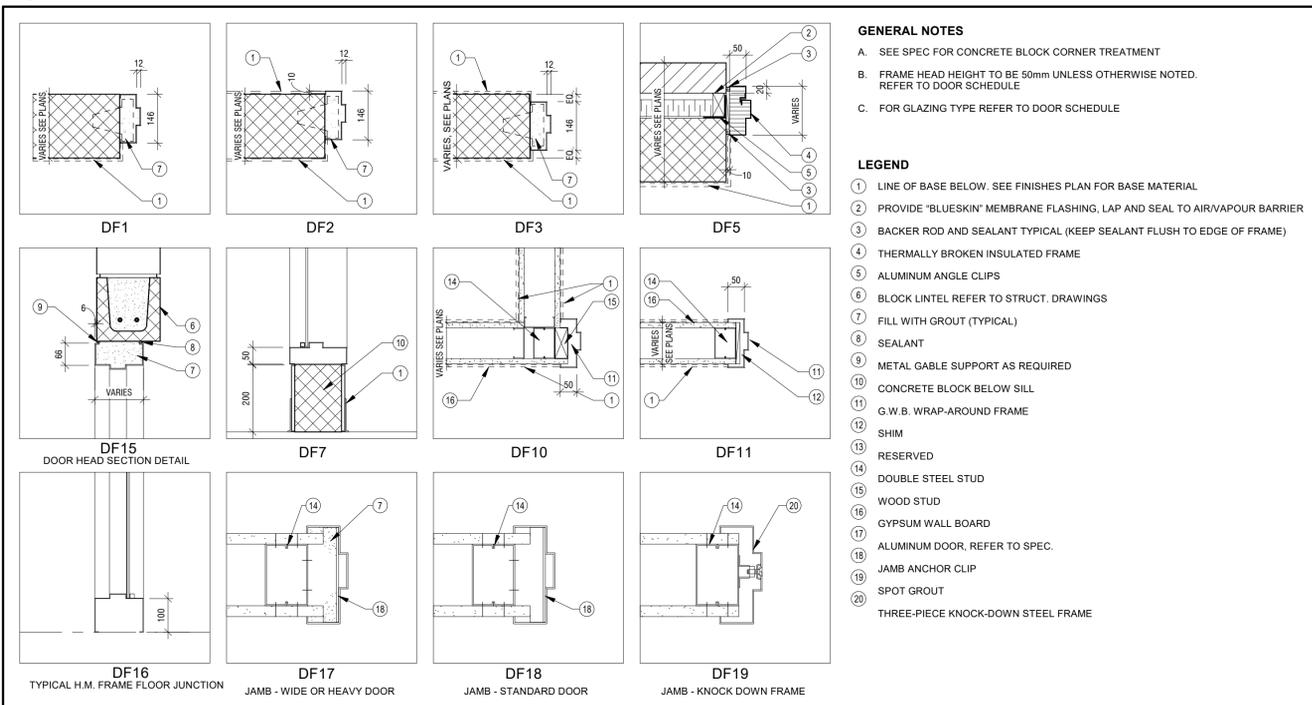
GENERAL NOTE - DOORS:
 ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH 965mm [3'-2"] AND 1015mm [3'-4"] WITH PANIC SET.

LEGEND - DOORS
 ① ALUMINUM LOUVRE, WHERE INDICATED ON DOOR SCHEDULE
 ② PANIC HARDWARE, REFER TO DOOR SCHEDULE
 ③ FOR GLAZING TYPE WHERE INDICATED ON DOOR SCHEDULE AND FIRE RESISTANCE RATINGS, REFER TO DOOR SCHEDULE

GENERAL NOTE - FRAMES:
 A. FRAME HEAD HEIGHT TO BE 50mm (2") UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE
 B. FOR GLAZING TYPE AND RATING REFER TO DOOR SCHEDULE

DOOR & SCREEN SCHEDULE																
REFER TO TYPICAL DETAILS FOR DOOR TYPE ELEVATIONS, FRAMES AND DETAILS																
LEGEND	AL AND CGL CR	ALUMINUM ANODIZED CERAMIC COATED FIRE RATED GLASS (RATED TO MATCH DOOR) CARD READER	DTGL ELS FF HM	INSULATED DOUBLE TEMPERED & LAMINATED GLASS ELECTRIC STRIKE FACTORY FINISH HOLLOW METAL	PDO PLAM PNT S&V TGL	POWER DOOR OPERATOR PLASTIC LAMINATE PAINT STAIN & VARNISH CLEAR SINGLE TEMPERED & LAMINATED GLASS	WSC 45 MIN	WOOD SOLID CORE INDICATES 45 MIN. FIRE RESISTANCE RATING REQUIRED, INCLUDING HOLLOW METAL FRAME								
Door/Screen Mark	Door Size (WxHxT)	Type / Elev	Material	Finish	Glazing	Grille	Frame Type / Elev	Profile	Material	Finish	ULC Panics	Closer	Threshold	Weather Strip	Rating Fire Rating	Notes
101	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						Review site conditions to determine profile requirements
102	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
103	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
108	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
111	2-762x2150x45	A	HM	PNT			2	DF5	HM	PNT	YES	YES	YES	YES		New door and frame in existing opening. Site verify dimensions.
112	915x2150x45	A	HM	PNT			1	DF5	HM	PNT	YES	YES	YES	YES		New door and frame in existing opening. Site verify dimensions.
114	965x2150x45	A	HM	PNT			1	DF11	HM	PNT					45min	
115	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
118	915x2150x45	A	HM	PNT			1	DF5	HM	PNT	YES	YES	YES	YES		New door and frame in existing opening. Site verify dimensions.
120	965x2150x45	B	HM	PNT	TGL		S2	DF11	HM	PNT						
120A	965x2300x45	B	HM	PNT	CGL		S1	DF1	HM	PNT					90min	50mm high, heavy duty threshold
121A	965x2150x45	A	HM	PNT			1	DF1	HM	PNT				YES	90min	50mm high, heavy duty threshold
121B	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						Overhead roll-up door in existing opening. Site verify dimensions. Clean and paint existing metal frame.
122	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
122B	1829x2438x25	C		FF						FF/PNT			YES			Overhead roll-up door in existing opening. Site verify dimensions. Clean and paint existing metal frame.
123	2-915x2300x45	A	HM	PNT			2	DF1	HM	PNT					90min	50mm high, heavy duty threshold
124	965x2150x45	A	HM	PNT			S3	DF11	HM	PNT						
125	915x2150x45	B	HM	PNT	DTGL		1	DF5	HM	PNT	YES	YES	YES	YES		New door and frame in existing opening. Site verify dimensions.
126	965x2150x45	B	HM	PNT	TGL		1	DF11	HM	PNT						
128	965x2150x45	A	HM	PNT		TBC	1	DF11	HM	PNT						
129	965x2150x45	A	HM	PNT			1	DF11	HM	PNT						
130	965x2150x45	B	HM	PNT	TGL		1	DF11	HM	PNT						
132	915x2150x45	A	HM	PNT			1	DF11	HM	PNT						
x100	Existing									EXTG.						
x100A	Existing									EXTG.						
x101A	Existing			PNT						EXTG. PNT						
x104	Existing			PNT						EXTG. PNT						
x105	Existing			PNT						EXTG. PNT						
x106	Existing									EXTG.						
x107	Existing									EXTG.						
x110	Existing			PNT						EXTG. PNT						
x111	Existing			PNT						EXTG. PNT						
x112	Existing			PNT						EXTG. PNT						
x113	Existing			PNT						EXTG. PNT						
x116	Existing			PNT						EXTG. PNT						
x119	Existing			PNT						EXTG. PNT						
x121	Existing			PNT						EXTG. PNT						
x125	Existing			PNT						EXTG. PNT						
x127	Existing			PNT						EXTG. PNT						
xOH1	Existing			PNT						EXTG. PNT						
xOH2	Existing			PNT						EXTG. PNT						
xOH3	Existing			PNT						EXTG. PNT						
xOH4	Existing			PNT						EXTG. PNT						
xOH5	Existing			PNT						EXTG. PNT						
xOH6	Existing			PNT						EXTG. PNT						
xOH7	Existing			PNT						EXTG. PNT						
xOH8	Existing			PNT						EXTG. PNT						
xOH9	Existing			PNT						EXTG. PNT						
xOH10	Existing			PNT						EXTG. PNT						
xOH11	Existing			PNT						EXTG. PNT						

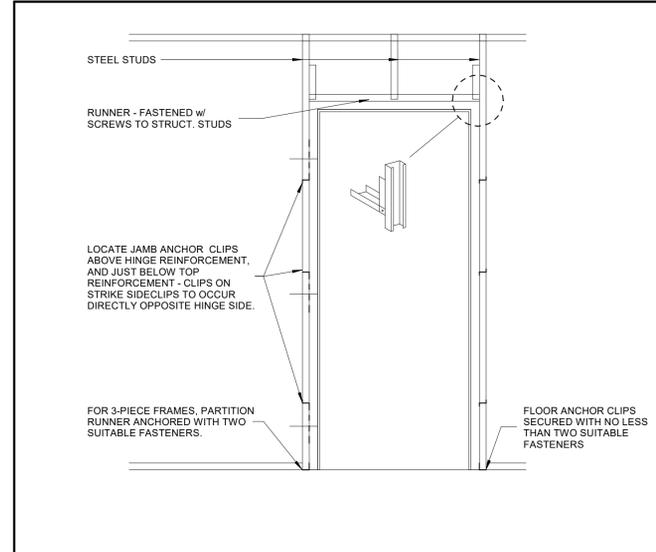
1 DOOR, FRAME AND SCREEN ELEVATIONS
 A901 Scale: 1 : 50



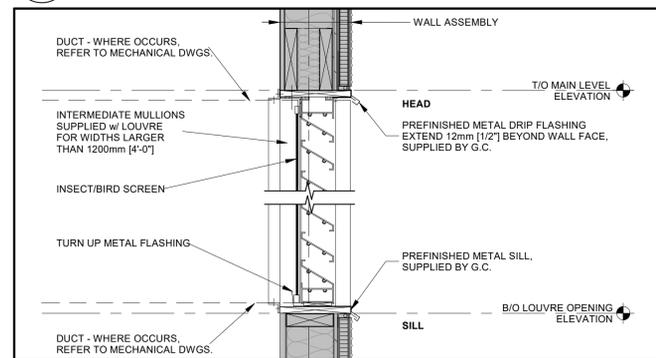
GENERAL NOTES
 A. SEE SPEC FOR CONCRETE BLOCK CORNER TREATMENT
 B. FRAME HEAD HEIGHT TO BE 50mm UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE
 C. FOR GLAZING TYPE REFER TO DOOR SCHEDULE

LEGEND
 ① LINE OF BASE BELOW. SEE FINISHES PLAN FOR BASE MATERIAL
 ② PROVIDE "BLUESKIN" MEMBRANE FLASHING, LAP AND SEAL TO AIR/VAPOUR BARRIER
 ③ BACKER ROD AND SEALANT TYPICAL (KEEP SEALANT FLUSH TO EDGE OF FRAME)
 ④ THERMALLY BROKEN INSULATED FRAME
 ⑤ ALUMINUM ANGLE CLIPS
 ⑥ BLOCK LINTEL REFER TO STRUCT. DRAWINGS
 ⑦ FILL WITH GROUT (TYPICAL)
 ⑧ SEALANT
 ⑨ METAL GABLE SUPPORT AS REQUIRED
 ⑩ CONCRETE BLOCK BELOW SILL
 ⑪ G.W.B. WRAP-AROUND FRAME
 ⑫ SHIM
 ⑬ RESERVED
 ⑭ DOUBLE STEEL STUD
 ⑮ WOOD STUD
 ⑯ GYPSUM WALL BOARD
 ⑰ ALUMINUM DOOR, REFER TO SPEC.
 ⑱ JAMB ANCHOR CLIP
 ⑳ SPOT GROUT
 ㉑ THREE-PIECE KNOCK-DOWN STEEL FRAME

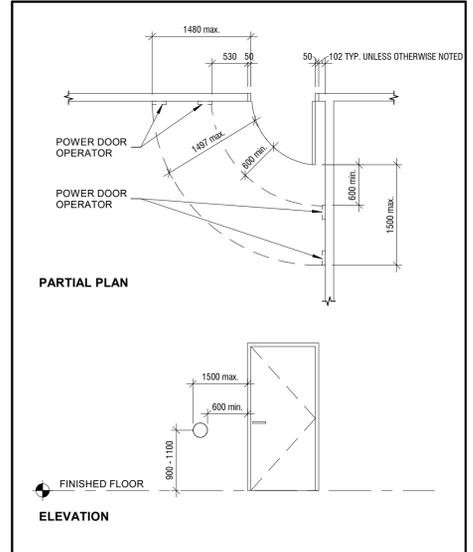
2 DOOR FRAMING DETAILS. [DF17, DF18 & DF19 Scale 1:5]
 A901 Scale: 1 : 10



3 FRAME ELEVATION
 A901 Scale: 1 : 20



5 TYPICAL SECTION DETAIL - LOUVRE
 A901 Scale: 1 : 10



4 PUSH BUTTON PDO MOUNTING
 A901 Scale: 1 : 50



No.	ISSUANCE	DATE
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CLIENT
CITY OF HAMILTON
 71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
 371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
DOOR AND SCREEN SCHEDULE

WALTERFEDY
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DATE:	2025-06-10		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	MA		
CHECKED BY:	DE		

- A. GENERAL**
- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2024 ONTARIO BUILDING CODE AND ANY APPLICABLE ACTS OF THE AUTHORITY HAVING JURISDICTION.
 - USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED 'ISSUED FOR CONSTRUCTION'.
 - READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
 - VERIFY ALL STRUCTURAL DIMENSIONS WITH THE CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - THE MOST STRINGENT REQUIREMENT GOVERNS WHERE DISCREPANCIES OCCUR WITHIN THE CONTRACT DOCUMENTS, INCLUDING APPLICABLE CODES, STANDARDS AND ACTS.
 - REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, DEPRESSIONS, GROOVES, CURBS, CHAMFERS, SLOPES, SLEEVES, EQUIPMENT BASES, HOUSEKEEPING PADS, TRENCHES, SUMP PITS AND EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - OPENINGS AND SLEEVES SHOWN ARE LOCATED AND DIMENSIONED FOR STRUCTURAL DETAILING PURPOSES ONLY. COORDINATE THE EXACT SIZES AND LOCATIONS WITH THE CONSULTANT AND APPLICABLE TRADES DURING CONSTRUCTION. REPORT ANY CONFLICTS TO THE CONSULTANT.
 - DO NOT CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT PERMISSION FROM THE CONSULTANT, UNLESS NOTED ON THE DRAWINGS.
 - THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY, TEMPORARY WORKS, AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
 - CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS SHOWN ON THE DRAWINGS.
 - PROVIDE ALL TEMPORARY SHORING, BRACING, HOARDING AND PROTECTION NECESSARY TO COMPLETE THE WORK AND COMPLY WITH APPLICABLE REGULATIONS. TEMPORARY WORKS TO BE DESIGNED AND INSPECTED BY A PROFESSIONAL ENGINEER WHO IS RETAINED BY THE CONTRACTOR.
 -

- B. EXISTING CONDITIONS**
- EXISTING STRUCTURE AND DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED TO CONVEY DESIGN INTENT ONLY. THE DESIGN IS BASED ON THE INFORMATION CONTAINED IN THE RECORD DRAWINGS FOR THE EXISTING BUILDINGS, AND ON LIMITED SITE OBSERVATIONS. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES OR CONDITIONS ENCOUNTERED THAT COULD POTENTIALLY AFFECT THE WORK AND OBTAIN DIRECTION BEFORE PROCEEDING.
 - LOCATE ALL EXISTING BURIED UTILITIES AND STRUCTURES. REFER TO CIVIL, MECHANICAL, AND ELECTRICAL DOCUMENTS FOR APPROXIMATE LOCATION OF ALL PROPOSED AND KNOWN EXISTING SERVICES. REMOVE, RELOCATE OR PROVIDE PROTECTION DURING CONSTRUCTION, AS DIRECTED BY THE CONSULTANT.
 - PROTECT EXISTING STRUCTURES FROM DAMAGE DURING CONSTRUCTION. PATCH AND MAKE GOOD ALL EXISTING BUILDING ELEMENTS DISTURBED OR DAMAGED AS PART OF THE WORK.

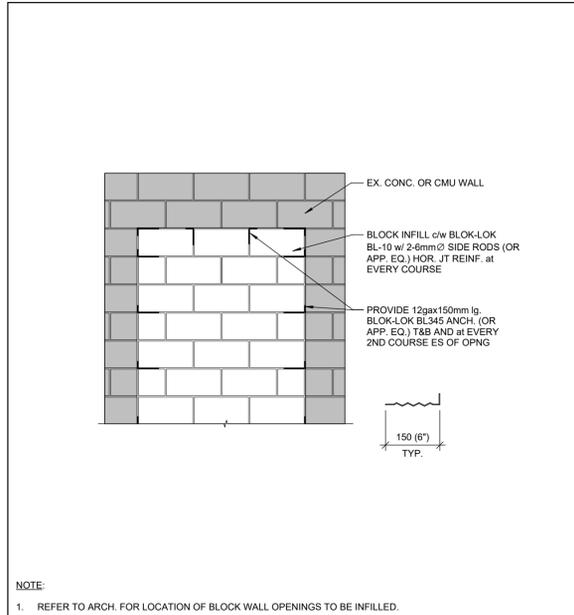
- D. MATERIALS**
- STRUCTURAL STEEL:
 - W & WWF SECTIONS, CHANNELS & ANGLES: CSA-G40.20/G40.21, GRADE 350W OR A992, GRADE 50 (345 MPa)
 - HSS SHAPES: CSA-G40.20/G40.21, GRADE 350W CLASS C OR ASTM A500 (GRADE C)
 - PLATES, RODS, BARS: CSA-G40.20/G40.21, GRADE 300W
 - STRUCTURAL BOLTS: ASTM F3125 GRADE A325 OR A490
 - NUTS & WASHERS: ASTM A563 & ASTM F436
 - ANCHOR RODS: CSA-G40.20/G40.21, GRADE 300W OR ASTM F1554 GRADE 55
 - HEADED STUDS: CSA W59, TYPE B, MIN Fy=350 MPa
 - STEEL DECK: CONFORMING TO ASTM A653/A653M OR ASTM A792/A792M (GRADE 230).
 - STEEL JOISTS: MATERIALS CONFORMING TO CSA G40.21, ASTM A1085 OR ASTM A500.

- J. STRUCTURAL STEEL**
- PERFORM WORK IN ACCORDANCE WITH CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE.
 - CONNECTIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS TO INDICATE DESIGN INTENT. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN, DETAILING, FABRICATION, AND ERECTION REQUIREMENTS. ALL CONNECTIONS ARE BEARING TYPE WITH A MINIMUM OF 2-19 (3/4") Ø BOLTS UNLESS NOTED OTHERWISE.
 - DESIGN CONNECTIONS FOR FORCES INDICATED ON THE STRUCTURAL DRAWINGS. WHERE CONNECTION FORCES ARE NOT PROVIDED, DESIGN CONNECTIONS FOR THE FOLLOWING FORCES:
 - NON-COMPOSITE BEAM ENDS: FACTORED SHEAR FORCE OF 50% OF THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM IN BENDING.
 - COMPOSITE BEAM ENDS: FACTORED SHEAR FORCE OF 75% OF THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE NON-COMPOSITE BEAM IN BENDING.
 - FULL-MOMENT CAPACITY OF SMALLEST MEMBER JOINED FOR MOMENT CONNECTIONS. NOTE: "STUB" DENOTES A MOMENT CONNECTION FOR CANTILEVER MEMBER.
 - FULL CROSS-SECTIONAL CAPACITY OF MEMBER AT SPLICE LOCATIONS.
 - DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
 - PROVIDE MINIMUM 10 (3/8") BEAM WEB STIFFENER PLATES (BOTH SIDES) AT ALL CONCENTRATED LOAD POINTS, INCLUDING BEAMS RUNNING OVER OR SUPPORTING COLUMNS.
 - PROVIDE 50 (2") NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES UNLESS NOTED OTHERWISE.
 - OBTAIN CONSULTANT'S PERMISSION TO SPLICE MEMBERS, OTHER THAN AT LOCATIONS INDICATED ON THE DRAWINGS.
 - PROVIDE 13mm (1/2") Ø WEEP HOLES AT TOP AND BOTTOM OF HSS COLUMNS.
 - ALL EXPOSED EXTERIOR STEEL TO BE HOT-DIPPED GALVANIZED. TOUCH-UP FIELD WELDS AND DAMAGED SURFACES WITH TWO COATS OF ZINC-RICH TOUCH-UP PAINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.
 - PROVIDE FIRE PROTECTION FOR STRUCTURAL STEEL IN ACCORDANCE WITH THE ARCHITECTURAL REQUIREMENTS. PROVIDE COMPATIBLE COATINGS OR SURFACE PREPARATION FOR STEEL MEMBERS TO BE FIRE-SPRAYED OR COATED WITH INTUMESCENT PAINT.
 - CONNECT HANGERS FOR MECHANICAL AND ELECTRICAL SERVICES AND OTHER NON-STRUCTURAL ELEMENTS NOT TO CAUSE TWISTING OF STEEL MEMBERS OR EXCESSIVE BENDING OF MEMBER FLANGES.
 - DETAIL GUSSET PLATES TO AVOID INTERFERENCES WITH ARCHITECTURAL FINISHES, SHAFT CLEARANCES, MECHANICAL AND ELECTRICAL SERVICES.
 - ALL BOLTS ARE TO BE INSTALLED SNUG-TIGHT, AS DEFINED IN CSA S16.
 - MINIMUM BEARING LENGTH FOR STEEL BEAMS AND JOISTS ON CONCRETE OR MASONRY IS 200 (8") AND ON STRUCTURAL STEEL IS 100 (4"), UNLESS NOTED OTHERWISE.
 - PROVIDE ADEQUATE SUPPORTS FOR BEARING OF STEEL DECK AT CONNECTIONS, COLUMNS OR OTHER IRREGULARITIES OR DETAILS WHERE THE DECK IS UNABLE TO BEAR ON THE PRIMARY SUPPORTING MEMBERS.
 - PROVIDE CAP PLATES AT TOP OF ALL HSS COLUMNS. MINIMUM 6.4 (1/4") THICK. DESIGN CAP PLATES FOR CONNECTION LOADS WHERE APPLICABLE.
 - PROVIDE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO MEET THE REQUIREMENTS OF THE CISC CODE OF STANDARD PRACTICE APPENDIX I WHERE INDICATED. ERECT USING SOFTENED SLINGS OR OTHER METHODS SUCH THAT THEY ARE NOT DAMAGED. PROVIDE PADDING AS REQUIRED TO PROTECT WHILE RIGGING AND ALIGNING.
 - GRIND SMOOTH ALL WELDS AND FLAME-CUT EDGES EXPOSED TO VIEW.
 - WELDED CONNECTIONS BETWEEN REINFORCING BAR COUPLERS AND STRUCTURAL STEEL SHALL DEVELOP THE ULTIMATE TENSILE STRENGTH OF THE SPECIFIED REINFORCING BAR.
 - PERFORM WELDING IN ACCORDANCE WITH CSA W59 AND CSA-S16 USING WELDERS CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA W47.1 DIVISION 1 OR 2.

- Q. GENERAL REVIEW**
- WALTERFEDY WILL PERFORM PERIODIC FIELD REVIEWS OF A REPRESENTATIVE SAMPLE OF THE WORK TO CONFIRM THAT THE WORK FOR WHICH WE ARE RESPONSIBLE IS IN GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. REFER TO PLANS AND SPECIFICATIONS FOR LOADING AND PERFORMANCE REQUIREMENTS.
 - COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING AGENCIES RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS REQUIRED FOR THE SAFE PERFORMANCE OF THEIR WORK.

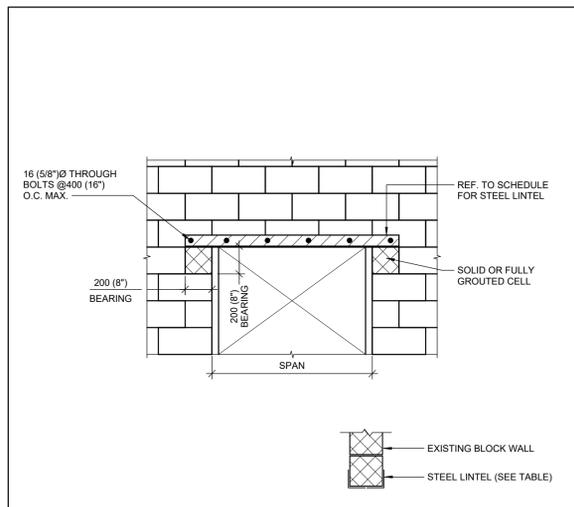
- GENERAL REVIEW OF WORK DESIGNED BY OTHER PROFESSIONAL ENGINEERS (STAMPED SHOP DRAWINGS) IS TO BE PERFORMED BY THE ENGINEER RESPONSIBLE FOR THAT DESIGN. SUBMIT FIELD REVIEW REPORTS TO THE CONSULTANT.
 - PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPLETED WORK, PRIOR TO CONCEALING OR ATTACHING TO THE WORK.
 - FIELD REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DOCUMENTS.
- R. SUBMITTALS**
- SUBMIT THE FOLLOWING ERECTION AND FABRICATION SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION:
 - STEEL ERECTION AND CONNECTION DESIGN
 - JOIST AND TRUSS DRAWINGS
 - ALL TESTING AND FIELD REPORTS PERFORMED BY OTHERS
 - SHOP DRAWINGS WILL BE REVIEWED SOLELY TO ASCERTAIN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT. THE CONSULTANT'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWING OR RESPONSIBILITY FOR MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- S. INSPECTION AND TESTING**
- AN INDEPENDENT TESTING AND INSPECTION COMPANY WILL BE RETAINED ON BEHALF OF THE OWNER TO PERFORM QUALITY ASSURANCE VERIFICATION OF THE WORK. COORDINATE TESTING AND INSPECTION OF THE WORK, AND ENSURE COPIES OF ALL INSPECTION REPORTS ARE DISTRIBUTED TO THE CONSULTANT AND OWNER IN A TIMELY MANNER.
 - COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING AGENCIES RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS REQUIRED FOR THE SAFE PERFORMANCE OF THEIR WORK.
 - TO ENSURE THAT FIELD REVIEWS OCCUR AT THE APPROPRIATE STAGE OF THE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WALTERFEDY WITH A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK, PERIODIC PROGRESS UPDATES, AND AT LEAST 48 HOURS NOTICE FOR SITE VISITS FOR THE FOLLOWING WORK:
 - PLACEMENT OF INSULATION AND REBAR PRIOR TO POURING CONCRETE.
 - TESTING AND INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING:
 - REINFORCING STEEL PLACEMENT
 - FIELD REVIEW, TESTING AND INSPECTION DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DOCUMENTS.



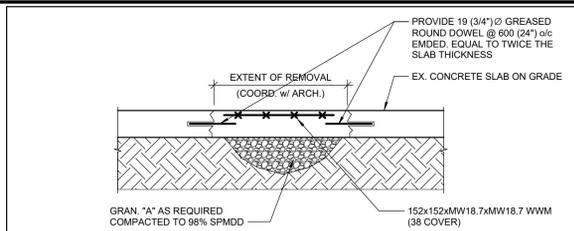
NOTE:
1. REFER TO ARCH. FOR LOCATION OF BLOCK WALL OPENINGS TO BE INFILLED.

INFILL EXISTING OPENINGS IN MASONRY WALLS M113



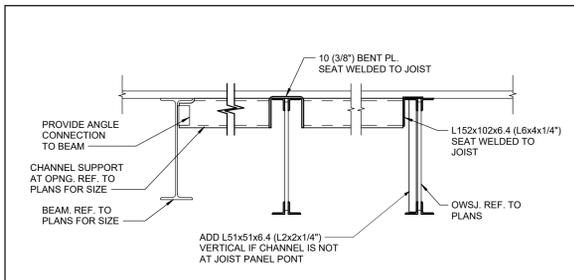
- NOTES:
1. REFER TO SCHEDULE FOR STEEL LINTEL SIZE.
2. GROUT LINTEL BEARING PRIOR TO SAW CUTTING THE EXISTING WALL.
3. PROVIDE STEEL PACKING AS REQUIRED FOR UNIFORM BEARING OF STEEL LINTELS.
4. STANDARD LINTELS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS FOR OPENING LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING LOCATIONS.

STEEL LINTELS FOR EXISTING NON-LOAD BEARING MASONRY PARTITIONS M107

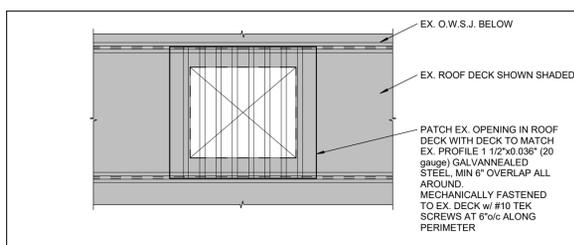


NOTE:
1. REFER TO ARCH. FOR LOCATION AND SIZE OF SLAB REPAIR.

SLAB-ON-GRADE REPAIR C206

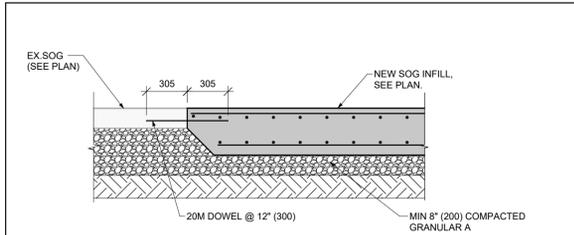


CHANNEL SUPPORT AT ROOF OPENING S103



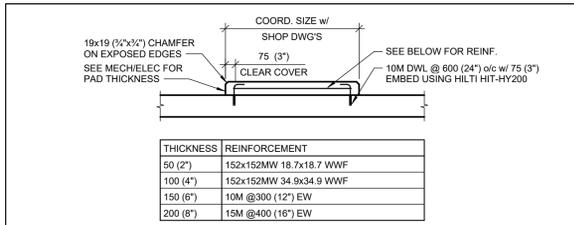
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS TO BE INFILLED.

TYPICAL STEEL DECK OPENING INFILL S307



NOTES:
1. REFER TO ARCH DRAWINGS FOR TRACK LOCATIONS.
2. REFER TO ARCH FOR LOCATION AND SIZE OF SLAB REPAIRS.

SLAB THICKENING AT EXISTING SLAB PD01



NOTES:
1. COORDINATE SIZE AND LOCATION OF HOUSEKEEPING PADS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
2. FOR PAD THICKNESSES NOT LISTED ABOVE, PROVIDE REINFORCING AS PER THE NEXT LARGER THICKNESS.

HOUSEKEEPING PAD ON CONCRETE SLABS C701a



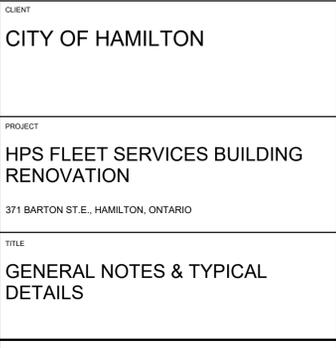
No.	ISSUANCE	DATE
1	ISSUED FOR BID REVIEW	2025-09-05
2	ISSUED FOR BID AND PERMIT	2025-12-02

CLIENT
CITY OF HAMILTON

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION

371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
GENERAL NOTES & TYPICAL DETAILS



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SCALE: AS NOTED SHEET NO: **S001**

DATE: 2025-08-26

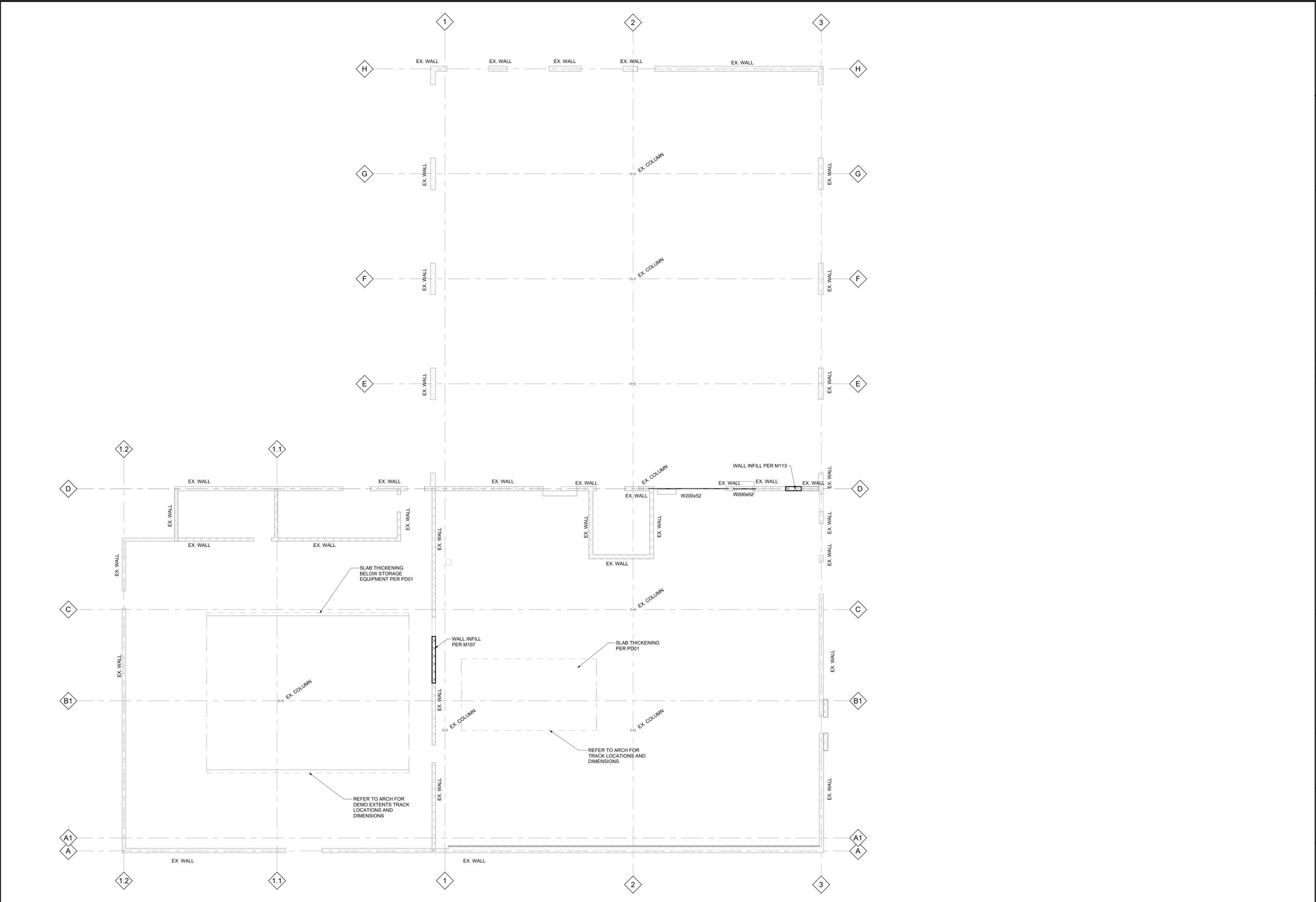
PROJECT NO: 2024-1007-10

DRAWN BY: AD/AK

CHECKED BY: MZ/PM

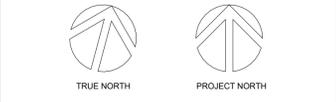
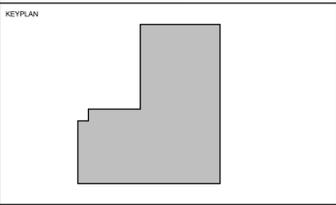
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1 GROUND FLOOR FRAMING PLAN

Scale: 1 : 100
 NOTES:
 1. MAXIMUM TRACK LOAD IS 20 kN/m



No.	ISSUANCE	DATE
1	ISSUED FOR BID REVIEW	2025-09-05
2	ISSUED FOR BID AND PERMIT	2025-12-02

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
 371 BARTON ST.E., HAMILTON, ONTARIO

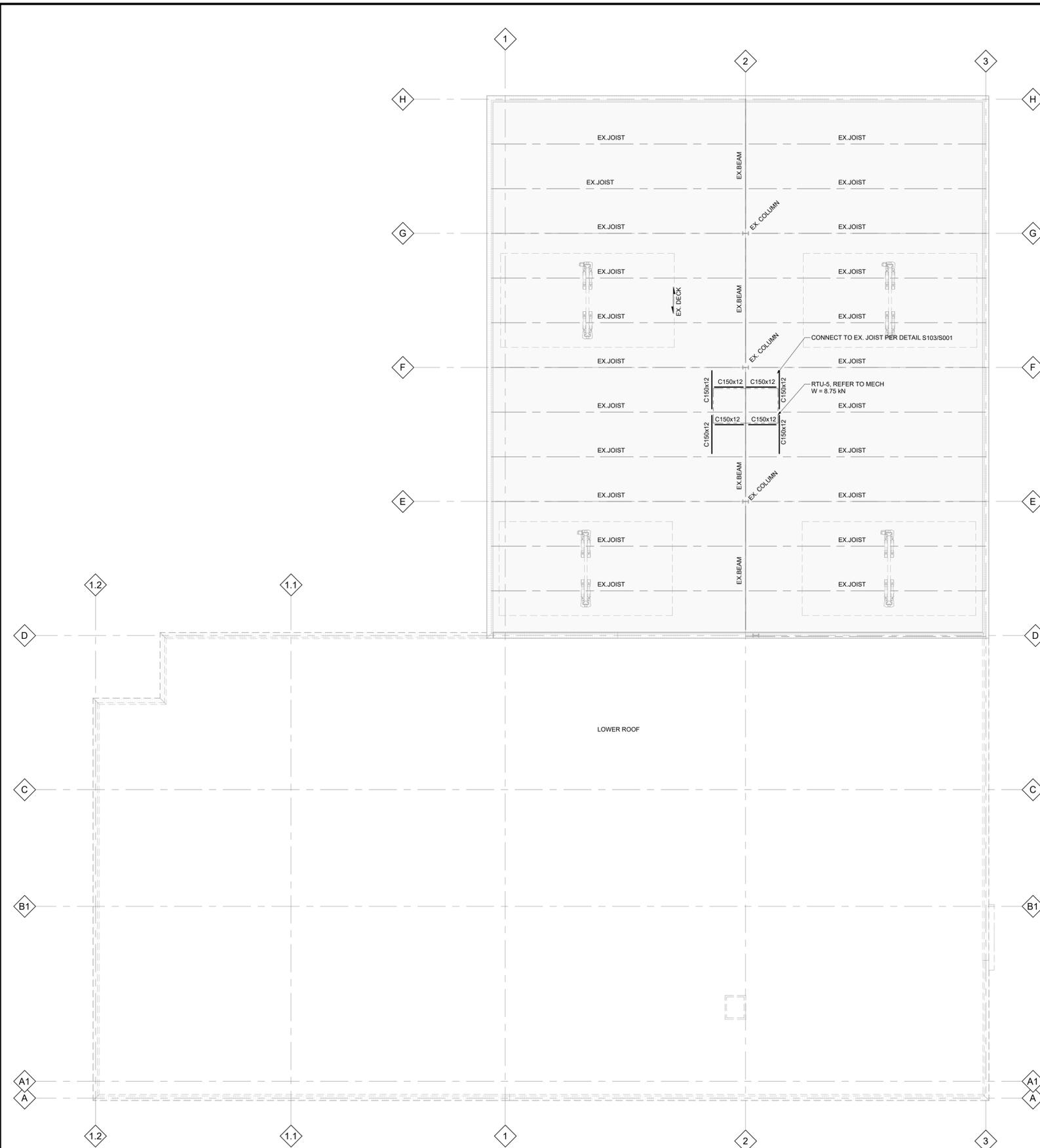
TITLE
GROUND FLOOR FRAMING PLAN

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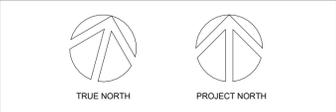
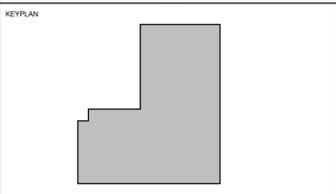


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SCALE:	AS NOTED	SHEET NO.:
DATE:	2025-08-26	S201
PROJECT NO.:	2024-1007-10	
DRAWN BY:	AD/AK	
CHECKED BY:	MZ/PM	



1 ROOF FRAMING PLAN
S202 Scale: 1 : 100



No.	ISSUANCE	DATE
1	ISSUED FOR BID REVIEW	2025-09-05
2	ISSUED FOR BID AND PERMIT	2025-12-02

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
**HPS FLEET SERVICES
BUILDING RENOVATION**
371 BARTON ST.E., HAMILTON, ONTARIO

TITLE
**ROOF FRAMING PLAN AND
SECTION**

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REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY WALTERFEDY, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WALTERFEDY, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

SCALE:	AS NOTED	SHEET NO:	S202
DATE:	2025-08-26		
PROJECT NO:	2024-1007-10		
DRAWN BY:	AD/AK		
CHECKED BY:	MZ/PM		

PIPING LEGEND	
A	EXISTING COMPRESSED AIR TO REMAIN
A	COMPRESSED AIR
NPC	NON POTABLE COLD WATER
HPW	HOT PRESSURIZED WATER
FOS	EXISTING ENGINE OIL SUPPLY TO REMAIN
EOS	ENGINE OIL SUPPLY
EOW	EXISTING ENGINE OIL WASTE TO REMAIN
EOW	ENGINE OIL WASTE
VAC	EXISTING VACUUM PIPING TO REMAIN
VAC	VACUUM PIPING
R	EXISTING REFRIGERATION SUPPLY TO REMAIN
R	REFRIGERATION SUPPLY
R	EXISTING REFRIGERATION RETURN TO REMAIN
R	REFRIGERATION RETURN
NPC	EXISTING NON-POTABLE COLD WATER TO REMAIN
NPC	NON-POTABLE COLD WATER
	EXISTING THERMOSTAT CONTROL WIRING TO REMAIN
	THERMOSTAT CONTROL WIRING
	EXISTING TO BE REMOVED
	REHEAT COIL
	RADIANT PANEL
	SHUT-OFF VALVE
	STRAINER
	UNION
	BACKFLOW PREVENTER
	CONTROLLER
	METER
	INLINE PUMP
	STEAM TRAP
	CAP
	PIPING UP
	PIPING DOWN
FD	FLOOR DRAIN
X	ANCHOR
	EXPANSION JOINT
	FLOW ARROW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
(E)	EXISTING
	CONNECT TO EXISTING

PLUMBING LEGEND	
	EXISTING COLD WATER TO REMAIN
	COLD WATER
	EXISTING COLD SOFT WATER TO REMAIN
	COLD SOFT WATER
	EXISTING HOT WATER TO REMAIN
	HOT WATER
	EXISTING HOT WATER RECIRC. TO REMAIN
	HOT WATER RECIRC.
	EXISTING SANITARY BELOW TO REMAIN
	SANITARY BELOW
S	EXISTING SANITARY IN CEILING TO REMAIN
S	SANITARY IN CEILING
	EXISTING STORM BELOW TO REMAIN
	STORM BELOW
ST	EXISTING STORM IN CEILING TO REMAIN
ST	STORM IN CEILING
	EXISTING DRAIN PIPING TO REMAIN
D	DRAIN PIPING
G	EXISTING GAS PIPING TO REMAIN
G	GAS PIPING
NPC	EXISTING NON-POTABLE COLD WATER TO REMAIN
NPC	NON-POTABLE COLD WATER
NPH	EXISTING NON-POTABLE HOT WATER TO REMAIN
NPH	NON-POTABLE HOT WATER
NPR	EXISTING NON-POTABLE HOT WATER RECIRC. TO REMAIN
NPR	NON-POTABLE HOT WATER RECIRC. TO REMAIN
	EXISTING TEMPERED WATER TO REMAIN
T	TEMPERED WATER
M	EXISTING MIXED WATER TO REMAIN
M	MIXED WATER
	EXISTING VENT PIPING TO REMAIN
V	VENT PIPING
	PRIME LINE PIPING
	EXISTING TO BE REMOVED
VEE	VEHICLE EXHAUST EXTRACTION
VAC	CENTRAL VACUUM
WWF	WASHER FLUID
L	LAVATORY
WC	WATER CLOSET
U	URINAL
SH	SHOWER
LB	LAUNDRY OUTLET BOX
WB	WASH BASIN
CS	COUNTER SINK
SS	SERVICE SINK
DF	DRINKING FOUNTAIN
EDF	ELECTRIC DRINKING FOUNTAIN
EEW	EMERGENCY EYEWASH
EEWS	EMERGENCY EYEWASH AND SHOWER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
RWL	RAIN WATER LEADER
CO	CLEAN OUT
FHC	FIRE HOSE CABINET
FEC	FIRE EXTINGUISHER c/w CABINET
FE	FIRE EXTINGUISHER
	SHUT-OFF VALVE
	INLINE PUMP
CO	FLOOR CLEAN OUTS
CO	CEILING CLEAN OUT
	RUNNING TRAP
	CAP
	PIPING UP
	PIPING DOWN
FD	FLOOR DRAIN
HB	HOSE BIBB
NFHB	NON FREEZE HOSE BIBB
	FLOW ARROW
	SIAMESE CONNECTION
(E)	EXISTING
	CONNECT TO EXISTING

HVAC LEGEND	
	SUPPLY OR OUTDOOR AIR DUCTWORK
	RETURN OR EXHAUST AIR DUCTWORK
	LOW VELOCITY ACOUSTIC INSULATION
	TURNING VANES
	FLEXIBLE DUCT
	EXISTING EQUIPMENT/DUCTWORK TO REMAIN
	EQUIPMENT/DUCTWORK
	EXISTING TO BE REMOVED
F.O.	FLAT OVAL DUCTWORK
S/A	SUPPLY AIR DUCTWORK
R/A	RETURN AIR DUCTWORK
O/A	OUTDOOR AIR DUCTWORK
E/A	EXHAUST AIR DUCTWORK
	MANUAL BALANCING DAMPER
BDD	BACK DRAFT DAMPER
	BLAST GATE DAMPER
MD-X	MOTORIZED DAMPER
VCD	OPPOSED BLADE VOLUME CONTROL DAMPER
F/D	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
	GRILLE, REGISTER, OR DIFFUSER
	TYPE TAG, AIR FLOW, AND DUCT CONNECTION SIZE
	SUPPLY AIR GRILLE OR DIFFUSER
	RETURN OR EXHAUST AIR GRILLE
UP	OFFSET DUCTWORK UP
DN	OFFSET DUCTWORK DOWN
AFMS	AIR FLOW MEASURING STATION
DG	DOOR GRILLE
UC	UNDERCUT
TD	TRANSFER DUCT
AD	ACCESS DOOR
(E)	EXISTING
	CONNECT TO EXISTING

VALVE LEGEND	
	SHUT-OFF VALVE - SEE SPECIFICATIONS
	BUTTERFLY VALVE
	CIRCUIT BALANCING VALVE
	GLOBE VALVE
	ELECTRICALLY SUPERVISED VALVE
	ELECTRICALLY SUPERVISED 3-WAY VALVE
	3-WAY VALVE
	AUTOMATIC CONTROL VALVE (ACV)
	GAS SHUT-OFF VALVE
	PNEUMATIC 3-WAY VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	ELECTRIC 2-WAY VALVE
	AUTOMATIC AIR VENT
	CHECK VALVE
	THERMOSTATIC MIXING VALVE
	CONNECT TO EXISTING

SCHEMATIC LEGEND	
AHU	SCHEMATIC - AIR HANDLING UNIT
B	SCHEMATIC - BOILER
F	SCHEMATIC - FAN
	SCHEMATIC - PUMP
CH	SCHEMATIC - CHILLER
CC	SCHEMATIC - COOLING COIL
	SCHEMATIC - HEATING COIL
	SCHEMATIC - HEAT EXCHANGER
	SCHEMATIC - AIR FILTER
RH	SCHEMATIC - REHEAT COIL
	SCHEMATIC - RADIANT PANEL
	SCHEMATIC - HUMIDIFIER
	SCHEMATIC - DAMPER
	SCHEMATIC - MOTORIZED DAMPER
	SCHEMATIC - AIR DIFFUSER
	SCHEMATIC - RETURN / EXHAUST GRILLE
	SCHEMATIC - FLOW ARROW
CFM	CUBIC FEET PER MINUTE
GPM	GALLONS PER MINUTE
	EXISTING EQUIPMENT/DUCTWORK TO REMAIN
	EQUIPMENT/DUCTWORK
	EXISTING TO BE REMOVED
(E)	EXISTING
	CONNECT TO EXISTING

CONTROL LEGEND	
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR
	PRESSURE SENSOR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
NO2	NITROGEN DIOXIDE
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	FLOW SWITCH
	CONTROLLER
	AUTOMATIC CONTROL VALVE (ACV)
AFMS	AIR FLOW MEASURING STATION
	CONNECT TO EXISTING

- GENERAL NOTES**
- DRAWINGS ARE GENERALLY DIAGRAMATIC. CONTRACTOR IS RESPONSIBLE FOR LAYING OUT MATERIAL IN CONJUNCTION WITH THE INTENT OF THESE DRAWINGS.
 - DRAWINGS ARE TO BE INTERPRETED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS.
 - TEMPORARY MEASURES SHALL BE DONE IN ORDER TO MAINTAIN SERVICES TO ALL OCCUPIED PORTIONS OF THE BUILDING DURING CONSTRUCTION. COORDINATE WITH THE OWNER FOR ANY REQUIRED SHUT-DOWNS, WHICH SHALL BE AFTER HOURS OR WEEKENDS. PROVIDE TEMPORARY MATERIALS TO ALLOW FOR SWITCH-OVERS OR SHUT-DOWNS. TEMPORARY SERVICES MATERIAL AND INSTALLATION SHALL MEET THE SPECIFICATIONS UNLESS SPECIFICALLY APPROVED BY THE CONSULTANT.
 - CONTRACTOR IS TO REVIEW EXISTING EQUIPMENT CONNECTIONS AND LAYOUT BEFORE DEMOLITION. ANY EQUIPMENT TO BE RE-INSTALLED SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPLICABLE CODES.
 - RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE SCOPE OF NEW WORK.
 - REMOVE AND REINSTALL EXISTING CEILINGS AS REQUIRED TO COMPLETE DEMOLITION AND NEW INSTALLATIONS.
 - COORDINATE LOCATION OF ACCESS DOORS IN GWB CEILINGS WITH OTHER TRADES. PROVIDE REFLECTED CEILING PLAN INDICATING LOCATIONS OF ALL ACCESS DOORS FOR APPROVAL PRIOR TO FINAL INSTALLATION.
 - THIS IS A POST DISASTER BUILDING. SEISMIC RESTRAINT IS REQUIRED.
 - RUN PIPING AND DUCTWORK IN CEILING SPACE UNLESS OTHERWISE NOTED.
 - SYSTEMS CONNECT TO EXISTING SERVICES. ALLOW FOR ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED IN ORDER TO CONNECT TO EXISTING. ALSO, ALLOW FOR ADDITIONAL LABOUR AND MATERIAL IN ORDER TO ADJUST DESIGNS TO AVOID INTERFERENCE WITH EXISTING SERVICES.
 - CONTRACTOR TO CARRY COST FOR HOT TAPPING OR LINE STOPPING OF SYSTEMS THAT REQUIRE TIE-IN CONNECTIONS WITH THE ASSUMPTION OF EXISTING ISOLATION VALVES NOT HOLDING OR NON EXISTANT.
 - ALL PIPING TO RADIANT CEILING PANELS, REHEAT COILS, CABINET HEATERS AND UNIT HEATERS TO BE 19mm (3/4") EXCEPT WHERE NOTED OTHERWISE.
 - RUN DUCTWORK BETWEEN AND THROUGH STEEL TRUSSES AS REQUIRED TO MAINTAIN CEILING HEIGHTS.
 - WHERE DUCTWORK MODIFICATIONS ARE REQUIRED AND IMPACT EXISTING SYSTEMS, SYSTEMS ARE TO BE RE-BALANCED AS NOTED. WHERE AND IF REQUIRED DRIVES AND SHEAVES ARE TO BE REPLACED AS REQUIRED BY THE BALANCING CONTRACTOR.
 - DUCT ELBOWS TO BE FULL RADIUS OR WITH TURNING VANES. REFER TO SPECIFICATIONS.
 - DUCT TO DIFFUSER SHALL MATCH DIFFUSER NECK SIZE, UNLESS NOTED OTHERWISE.
 - FOR DUST CONTROL, GAP EXISTING DUCTS IN THE CONSTRUCTION AREA. CONNECTION TO EXISTING AIR DUCTS TO BE DONE AFTER COMPLETION OF ALL DUST PRODUCING TASKS.
 - FIRE DAMPERS AND OR FIRE SMOKE DAMPERS ARE REQUIRED TO BE INSTALLED ON NEW AND EXISTING DUCTS PASSING THROUGH RATED WALLS, CEILING AND FLOORS.
 - CONTRACTOR TO ASSESS CONDITION OF EXISTING DUCTWORK PRIOR TO CONNECTIONS/MODIFICATIONS FOR SUITABILITY OF RE-USE. ANY DAMAGES TO DUCTWORK TO BE REPORTED TO CONSULTANT/ARCHITECT.
 - ALL MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME-SPREAD RATING NOT MORE THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION NOT MORE THAN 50.
 - FOR FLEXIBLE DUCTWORK TO CEILING MOUNTED DIFFUSER, REFER TO TYPICAL DIFFUSER DUCTING DETAIL.
 - PRIOR TO CONSTRUCTION/DEMOLITION, COMPLETE PRELIMINARY AIR TESTING TO ESTABLISH BASELINE AIRFLOW TO ZONE AND PROVIDE REPORT TO CONSULTANT FOR REVIEW.

ROOM SCHEDULE

100	VESTIBULE
101	UNIFORMS
102	CHANGE RM
103	CHANGE (BF)
104	OFFICE
105	HOTEL OFFICE
106	VESTIBULE
107	CORRIDOR
108	IT ROOM
109	BREAK ROOM
110	EXIST. ELEC ROOM
111	EXIST. MECH. ROOM
112	VESTIBULE
113	WOMEN'S WR
114	JANITOR
115	STORES
116	MEN'S LOCKER
117	MEN'S WR
118	FLEET GARAGE
119	FLEET STORAGE
120	FLEET OFFICE
121	VESTIBULE
122	SHIPPING RECEIVING
123	FLEET
124	S&R CLERK
125	VESTIBULE
126	CORRIDOR
127	FITNESS AREA
128	UNIVERSAL W/R
129	MULTI-PURPOSE ROOM
130	LUNCHROOM
132	ROOF ACCESS/STOR.

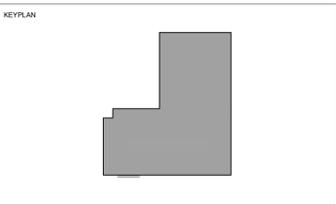
CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
MECHANICAL DRAWING LIST, GENERAL NOTES, AND LEGENDS

DRAWING LIST

MECHANICAL	
M001	MECHANICAL DRAWING LIST, GENERAL NOTES, AND LEGENDS
M001	GROUND FLOOR PLUMBING AND PIPING DEMOLITION PLAN
M002	GROUND FLOOR MECHANICAL DEMOLITION PLAN
M003	ROOF MECHANICAL DEMOLITION PLAN
M201	GROUND FLOOR PLUMBING AND PIPING PLAN
M301	GROUND FLOOR H.V.A.C. PLAN
M302	ROOF MECHANICAL PLAN
M601	MECHANICAL SECTIONS
M701	DOMESTIC WATER PIPING SCHEMATIC
M702	GARAGE SERVICES AND GAS PIPING SCHEMATICS
M901	MECHANICAL STANDARD DETAILS
M901	MECHANICAL SCHEDULES
M902	GARAGE EQUIPMENT SCHEDULES



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
MECHANICAL DRAWING LIST, GENERAL NOTES, AND LEGENDS

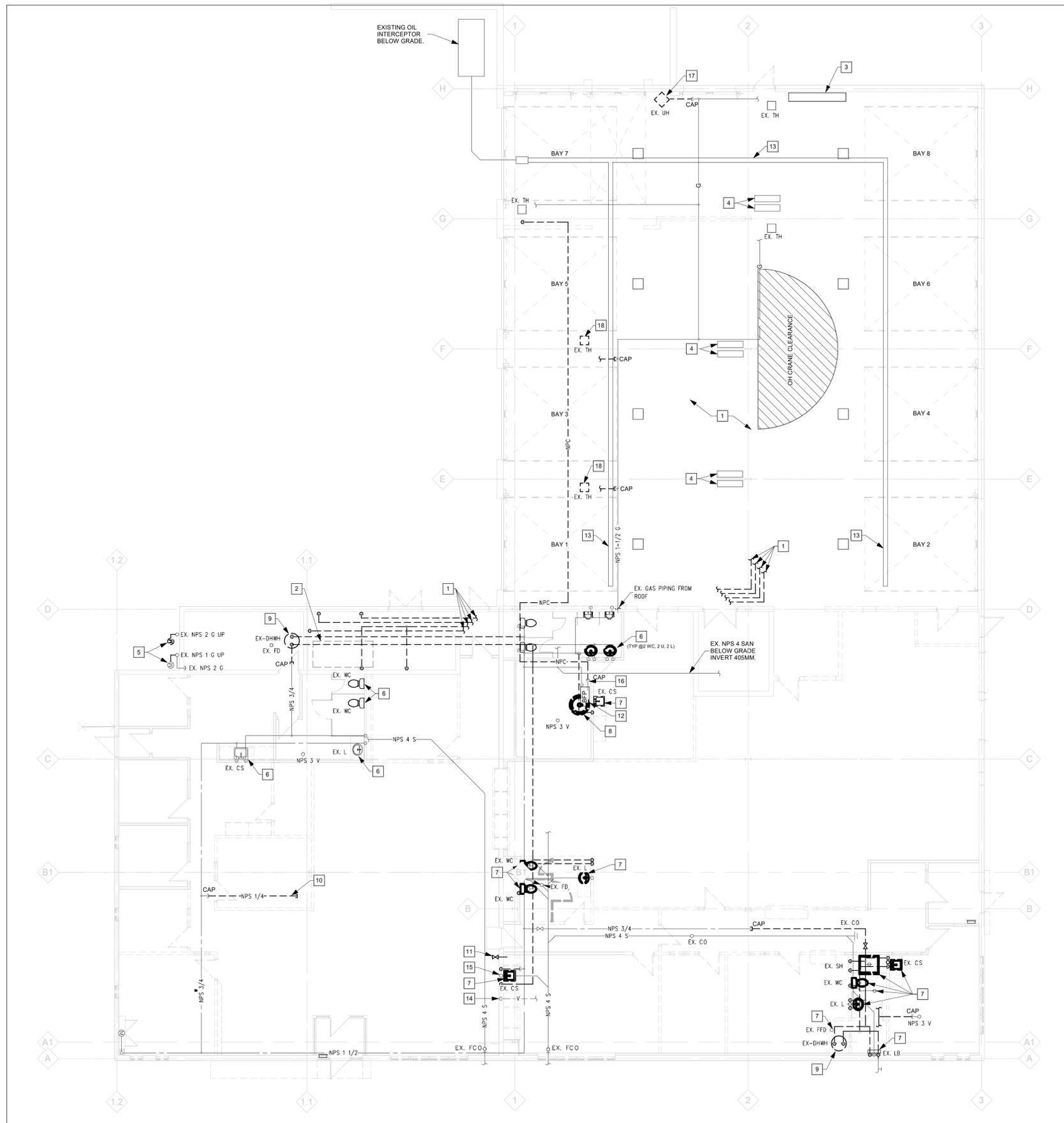
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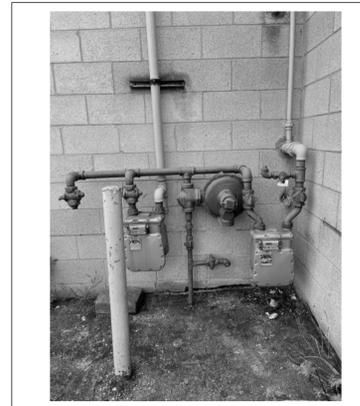
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DATE:	04/12/22		
PROJECT NO.:	2024-1007-10		
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1 GROUND FLOOR PLUMBING DEMOLITION PLAN
MD01 Scale: 1:100

2 DEMOLITION NOTES

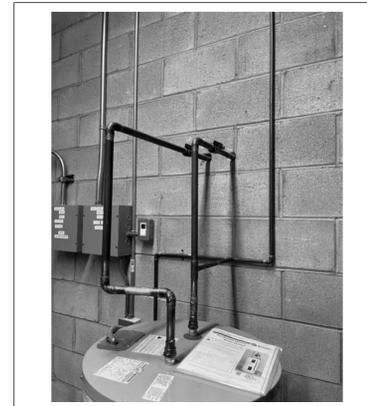
- REMOVE ALL EXISTING GARAGE SPECIALTY SERVICE PIPING FROM MECHANICAL ROOM TO OUTLETS IN GARAGE. FULL EXTENT OF PIPING TO BE REMOVED IS NOT SHOWN ON DRAWING. PRICE IN TENDER FOR THE REMOVAL OF THE FOLLOWING PIPING QUANTITIES COMPLETE WITH ALL ASSOCIATED HANGERS, SUPPORTS, FITTINGS, VALVES, ETC. VERIFY EXTENT OF DEMOLITION REQUIRED ON SITE PRIOR TO BID:
- 150 FT OF 1-1/2" BLACK IRON PIPING (COMPRESSED AIR)
- 400 FT OF 3/4" BLACK IRON PIPING (COMPRESSED AIR)
- 250 FT OF 3/4" GALVANIZED PIPING (OIL SUPPLY)
- 250 FT OF 1/2" GALVANIZED PIPING (OTHER)
- 250 FT OF 1/2" COPPER PIPING (NON POTABLE WATER)
- REMOVE EXISTING OIL SUPPLY TANK COMPLETE WITH PUMP. REFER TO PHOTO 4MD01.
- REMOVE EXISTING FLUID PUMP EQUIPMENT. REMOVE ALL ASSOCIATED ABANDONED PIPING IN THIS AREA. PRICE IN TENDER FOR THE REMOVAL OF 150 FT OF 3/4" PIPING, COMPLETE WITH ALL ASSOCIATED HANGERS, SUPPORTS, FITTINGS, VALVES, ETC. REFER TO PHOTO 6MD01.
- REMOVE EXISTING OIL SUPPLY REEL COMPLETE WITH ASSOCIATED SUPPORTS AND PIPING.
- CONTRACTOR WITH LOCAL GAS UTILITY TO REMOVE EXISTING GAS METERS. TEMPORARILY CAP EXISTING GAS PIPING. REFER TO NATURAL GAS SCHEMATIC ON DRAWING M702.
- REMOVE EXISTING PLUMBING FIXTURE. EXISTING PLUMBING AND DRAINAGE SERVICES TO REMAIN TO RECEIVE NEW FIXTURE IN SAME LOCATION. TEMPORARILY CAP EXISTING SERVICES.
- REMOVE EXISTING PLUMBING FIXTURE. REMOVE EXISTING PLUMBING SERVICES BACK TO SOURCE UNLESS INDICATED OTHERWISE. CAP EXISTING DRAIN BELOW SLAB UNLESS INDICATED OTHERWISE.
- REMOVE EXISTING BRADLEY WASH FOUNTAIN COMPLETE WITH FAUCET. CAP EXISTING DOMESTIC HOT AND COLD WATER PIPING BACK TO SOURCE. CAP EXISTING DRAIN BELOW SLAB.



2 EXISTING GAS METERS
MD01 N.T.S.

3 DEMOLITION NOTES

- REMOVE EXISTING DOMESTIC HOT WATER HEATER COMPLETE WITH ALL ASSOCIATED PIPING, RELIEF DRAINS, ETC.
- REMOVE AND CAP PORTION OF DOMESTIC COLD WATER PIPING AS INDICATED.
- REMOVE EXISTING VALVED DOMESTIC WATER CONNECTION AT LOW LEVEL. CAP EXISTING PLUMBING BACK TO SOURCE.
- EXISTING NPS 1-1/2 WALL MOUNTED BACKFLOW PREVENTER TO REMAIN. TEST AND VERIFY OPERATION OF EXISTING DEVICE. PROVIDE WRITTEN REPORT TO CONSULTANT INCLUDING ITEMIZED COSTS FOR ANY RECOMMENDED REPAIRS OR REPLACEMENTS.
- EXISTING TRENCH DRAIN TO REMAIN.
- REWORK EXISTING NPS 1-1/4 VENT PIPING TO SUIT NEW SINK. REFER TO PLUMBING LAYOUT FOR NEW SINK LOCATION.
- REWORK EXISTING NPS 1-1/2 SANITARY DRAIN TO SUIT NEW SINK. REFER TO NEW PLUMBING LAYOUT FOR NEW SINK LOCATION.
- CAP AND REMOVE EXISTING NON POTABLE WATER PIPING BACK TO NPS 1-1/2 PIPE WITHIN CEILING SPACE DOWNSTREAM OF BACKFLOW PREVENTER.
- REMOVE EXISTING CEILING HUNG GAS FIRED UNIT HEATER COMPLETE WITH ALL HANGERS, SUPPORTS, CONTROLS, ETC. REMOVE AND CAP EXISTING GAS PIPING BACK TO SOURCE AS INDICATED.
- REMOVE EXISTING GAS FIRED RADIANT TUBE HEATER COMPLETE WITH ASSOCIATED SUPPORTS. CAP AND REMOVE EXISTING NPS 1/2 GAS PIPING BACK TO MAIN AS INDICATED.



3 EXISTING DHWH - WEST
MD01 N.T.S.



4 EXISTING OIL TANK
MD01 N.T.S.



5 EXISTING DHWH - EAST
MD01 N.T.S.

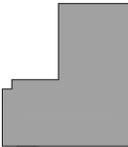


6 EX. FLUID PUMP EQUIPMENT
MD01 N.T.S.

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE

GROUND FLOOR PLUMBING AND PIPING DEMOLITION PLAN

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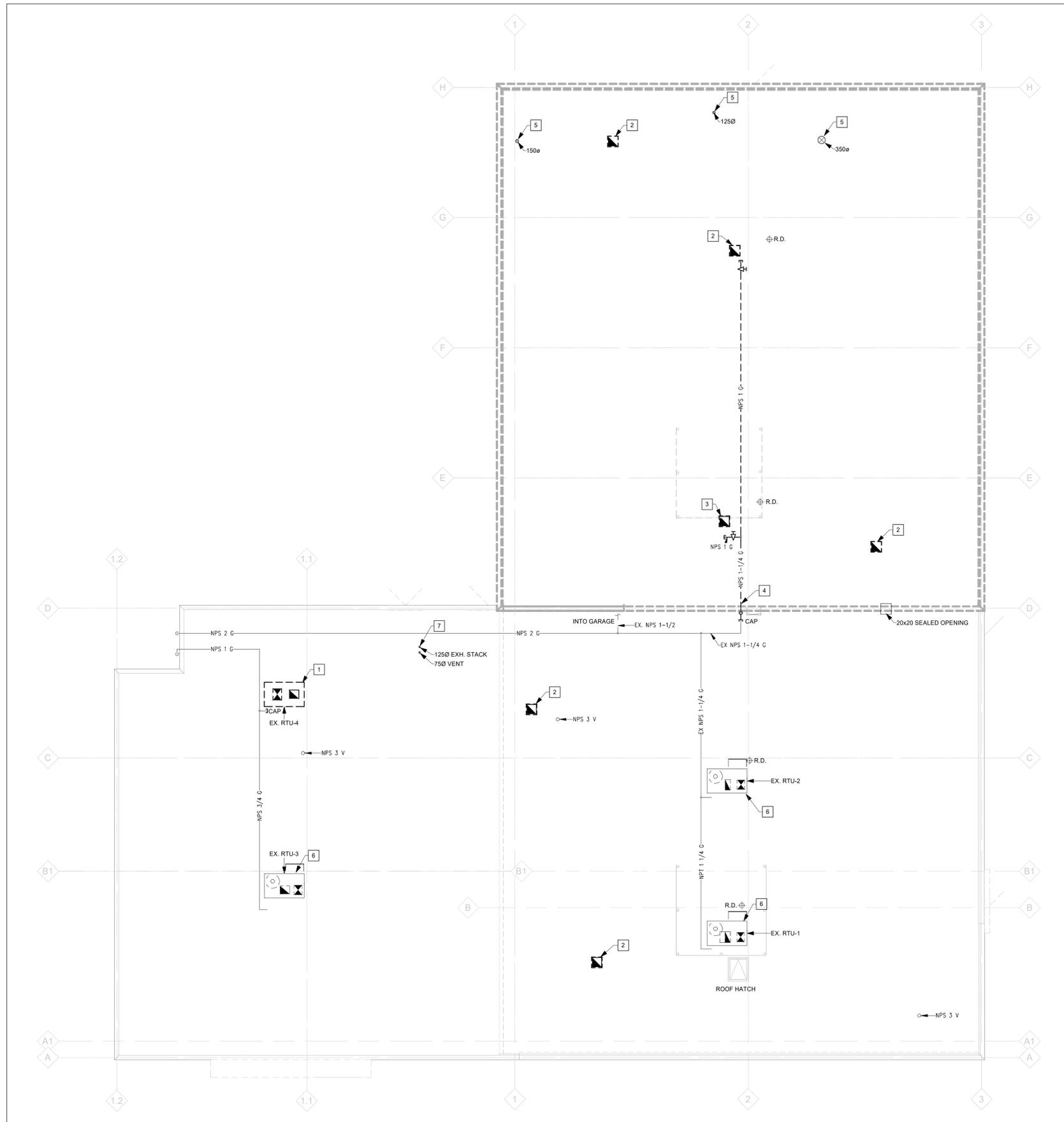
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1 ROOF MECHANICAL DEMOLITION PLAN
MD03 / Scale: 1 : 100

GENERAL NOTES

- A COORDINATE ALL MECHANICAL WORK ON ROOF WITH ROOFING CONTRACTOR. ALL ROOFING WORK TO BE COMPLETED BY MANDATED ROOFING CONTRACTOR FOR THIS PROJECT.
- B ALL LINE VOLTAGE EQUIPMENT FOR DEMOLITION TO BE DISCONNECTED BY THE ELECTRICAL DIVISION PRIOR TO REMOVAL. ALL LOW VOLTAGE CONTROLS AND WIRING FOR DEMOLISHED EQUIPMENT TO BE REMOVED BY THE MECHANICAL CONTRACTOR.

DEMOLITION NOTES

- 1 REMOVE EXISTING ROOF TOP UNIT COMPLETE WITH ASSOCIATED CONTROLS. TEMPORARILY CAP EXISTING GAS PIPING TO RECEIVE NEW ROOF TOP UNIT.
- 2 REMOVE EXISTING ROOF EXHAUST FAN COMPLETE WITH ASSOCIATED CONTROLS. EXISTING OPENING TO REMAIN TO RECEIVE REPLACEMENT FAN.
- 3 REMOVE EXISTING ROOF EXHAUST FAN. OPENING IN ROOF TO BE PATCHED BY OTHERS.
- 4 REMOVE AND CAP EXISTING GAS PIPE AS INDICATED TO ACCOMMODATE REPLACEMENT OF GARAGE ROOF.
- 5 REMOVE EXISTING PIPEDUCT THROUGH ROOF. ROOF PENETRATION TO BE PATCHED BY ROOFING CONTRACTOR.
- 6 PRIOR TO CONSTRUCTION TEST AND VERIFY OPERATION OF EXISTING ROOF TOP UNIT AND ASSOCIATED CONTROLS. PROVIDE WRITTEN REPORT TO CONSULTANT INCLUDING ITEMIZED COSTS FOR ANY RECOMMENDED REPAIRS OR REPLACEMENTS.
- 7 REMOVE EXISTING FLUE EXHAUST STACK. ROOF OPENING TO REMAIN TO RECEIVE NEW EXHAUST TERMINATION.



2 EXISTING RTU-4
MD03 N.T.S.

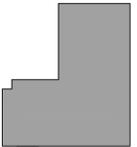


3 EXISTING TYPICAL GARAGE ROOF EXHAUST FAN
MD03 N.T.S.

CLIENT LOGO



KEY PLAN



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1	ISSUED FOR 75% CD REVIEW	2025-08-22
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CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE

ROOF MECHANICAL DEMOLITION PLAN

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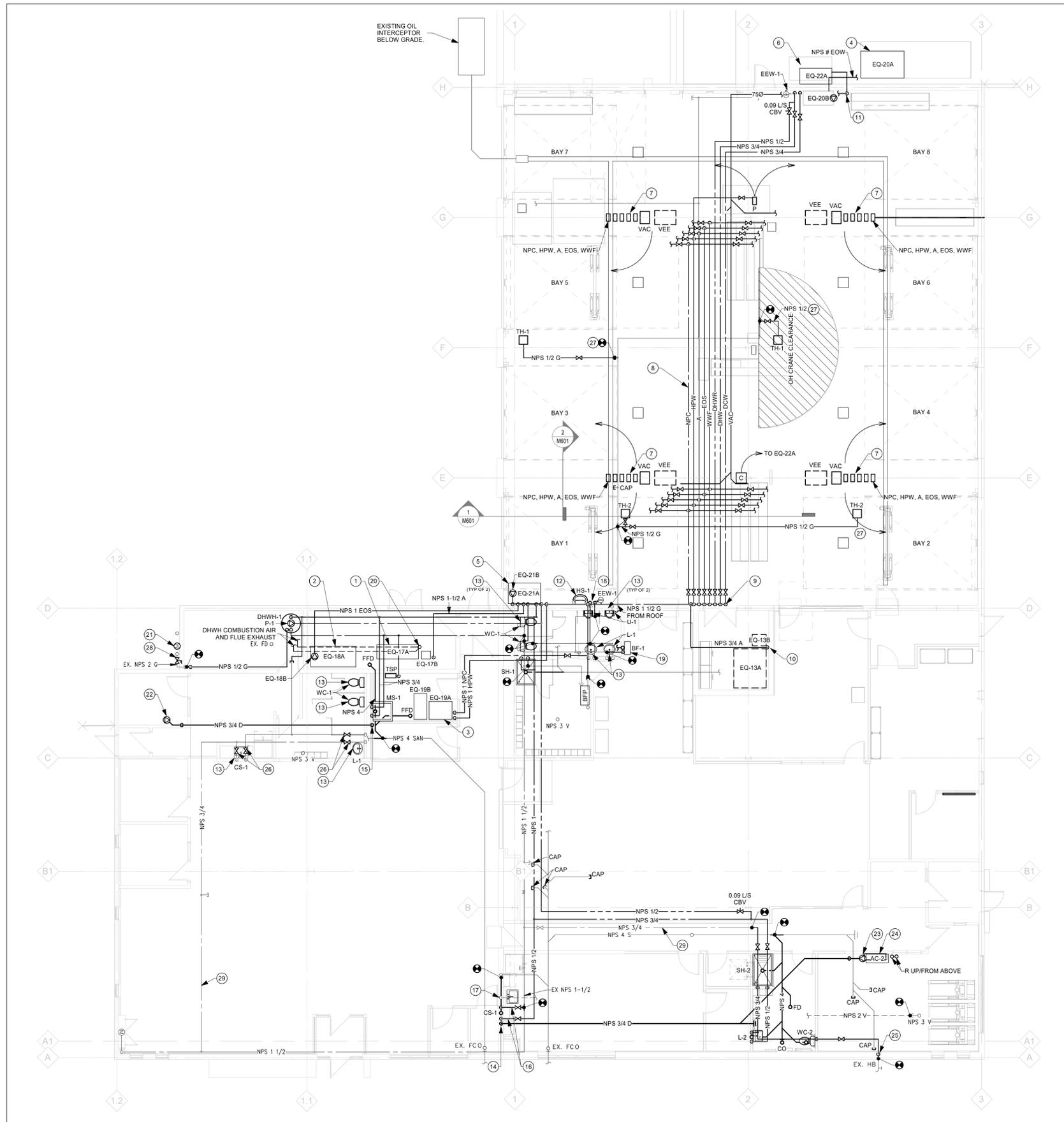
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PROJECT NO.:	2024-1007-10	
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1 GROUND FLOOR PLUMBING LAYOUT
M201 Scale: 1 : 100

GARAGE SERVICES LEGEND

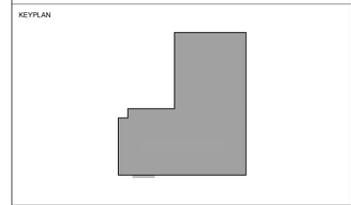
- NPC - NON POTABLE COLD WATER
- HPW - HOT PRESSURIZED WATER
- A - COMPRESSED AIR
- EOS - ENGINE OIL SUPPLY
- EOW - ENGINE OIL WASTE
- WWF - WASHER FLUID
- VAC - CENTRAL VACUUM
- VEE - VEHICLE EXHAUST EXTRACTION (SHOWN ON HVAC DRAWING)

GARAGE DRAWING NOTES

- 1 PROVIDE AIR COMPRESSOR AND AIR DRYER COMPLETE WITH ASSOCIATED STARTER, PRE/POST FILTER, PIPING, VALVES, PRESSURE SWITCHES, SAFETY VALVES, VIBRATION ISOLATION, ETC. FOR A COMPLETE INSTALLATION.
- 2 PROVIDE ENGINE OIL SUPPLY TANK AND PUMP COMPLETE WITH ASSOCIATED SCREENED FILL BOX AND EVACUATION TUBE, EMERGENCY VENT, VACUUM GAUGE, PUMP WALL BRACKET, EVACUATION SYSTEM SOLENOID VALVE, OVERFILL PROTECTION DEVICE, LIQUID LEVEL GAUGE, ETC. FOR A COMPLETE INSTALLATION.
- 3 PROVIDE PRESSURE WASHER PUMP AND HEATER COMPLETE WITH ASSOCIATED VFD, FLOAT SWITCHES, PRESSURE REGULATOR, PRESSURE GAUGE, BELT GUARD, TANK STAND, FEED TANK, DUAL ELECTRIC COIL HEAT EXCHANGER, SAFETY, RELIEF VALVES, TEMPERATURE CONTROL, ETC. FOR A COMPLETE INSTALLATION.
- 4 PROVIDE ENGINE OIL WASTE TANK AND PUMP COMPLETE WITH ASSOCIATED SCREENED FILL BOX AND EVACUATION TUBE, EMERGENCY VENT, VACUUM GAUGE, PUMP WALL BRACKET, EVACUATION SYSTEM SOLENOID VALVE, OVERFILL PROTECTION DEVICE, LIQUID LEVEL GAUGE, ETC. FOR A COMPLETE INSTALLATION.
- 5 PROVIDE WASHER FLUID TANK AND PUMP COMPLETE WITH ASSOCIATED WASHER FLUID SUPPLY PIPING, COMPRESSED AIR PIPING, VALVES, HOSES, MOUNTING BRACKETS, AIR REGULATOR, GAUGE, THERMAL RELIEF VALVE, FILTER, ETC. FOR A COMPLETE INSTALLATION.
- 6 PROVIDE CENTRAL VACUUM SYSTEM COMPLETE WITH ASSOCIATED AIR FILTER, DEBRIS COLLECTOR, CONTROL PANEL, VACUUM PIPING, INLINE WET SEPARATOR, ETC. FOR A COMPLETE INSTALLATION. CENTRAL VACUUM SYSTEM TO COSTED IN TENDER AS SEPARATE PRICE, INCLUDING BLOWER, FILTER, PIPING, REELS, AND ALL ASSOCIATED EQUIPMENT.
- 7 PROVIDE SET OF GARAGE SERVICE REELS MOUNTED TO UNDERSIDE OF JOISTS. INSTALL ALL REELS AS PER MANUFACTURER RECOMMENDATIONS. OBTAIN AND FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS. REFER TO GARAGE SERVICES REEL SCHEDULE ON DRAWING M901.
- 8 NEW PIPING TO RUN BELOW NEW DUCTWORK. COORDINATE WITH ALL NEW GARAGE AND MECHANICAL SERVICES TO ENSURE ANY NEW VALVES OR DEVICES ARE FULLY ACCESSIBLE. PROVIDE ADDITIONAL PIPE OFFSETS AS REQUIRED. (TYPICAL)
- 9 PIPES TO DROP ALONG WALL AND RUN TOGETHER ALONG FACE OF WALL AT HIGH LEVEL.
- 10 NPS 3/4 COMPRESSED AIR PIPING DOWN TO SANDBLASTING UNIT. SANDBLASTING UNIT AND ASSOCIATED DUST COLLECTOR SHALL BE SUPPLIED BY OWNER. EQUIPMENT TO BE INSTALLED AND FULLY ASSEMBLED BY MECHANICAL CONTRACTOR. OBTAIN INSTALLATION GUIDE FROM MANUFACTURER, 1ST BLAST AND INTALL AS PER MANUFACTURER RECOMMENDATION.
- 11 RUN 750 VACUUM DUCT DOWN ALONG FACE OF WALL AND THROUGH EXTERIOR WALL AT LOW LEVEL.

GENERAL NOTES

- A LOCATION OF GARAGE SERVICE REELS ARE DIAGRAMMATIC IN NATURE. ALLOW FOR INSTALLING EACH REEL/STATION/CONNECTION WITHIN 3.0 METERS OF LOCATION SHOWN TO SUIT OWNER PREFERENCE AND SITE CONDITIONS. SUBMIT DIMENSIONED SHOP DRAWING IN PLAN AND ELEVATION VIEW FOR TYPICAL INSTALLATION.
- B NEW PRESSURIZED SYSTEMS (COMPRESSED AIR, PRESSURE WASHER) SHALL BE REGISTERED WITH THE TSSA. PRICE IN TENDER FOR ALL ASSOCIATED COORDINATION, APPLICATION COSTS, INSPECTIONS, ETC.
- C PROVIDE ALL FLOOR DRAINS COMPLETE WITH TRAPS AND TRAP SEAL PRIMERS.
- D THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH MECHANICAL SECTION ON M901. PIPING SCHEMATICS ON M701 AND M702, AND SCHEDULES ON M901 AND M902.
- E INSTALL ALL EQUIPMENT AS PER MANUFACTURER RECOMMENDATIONS. OBTAIN AND FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS.
- F FIRESTOP ALL NEW MECHANICAL PENETRATIONS THROUGH NEW AND EXISTING FIRE SEPARATIONS. COORDINATE WITH ARCHITECTURAL A101 CBC PLAN & MATRIX, TO DETERMINE ALL FIRE SEPARATIONS. COORDINATE AND PRICE FOR ALL FIRESTOPPING WORK. REFER TO SPECIFICATIONS. PRICE IN TENDER FOR A DETAILED INSPECTION UPON REMOVAL OF CEILING, TO IDENTIFY ANY EXISTING MECHANICAL SERVICES THAT PENETRATE EXISTING FIRE SEPARATIONS WITHOUT FIRESTOPPING. ADVISE CONSULTANT OF ANY EXISTING DEFICIENCIES.
- 12 PROVIDE NEW HAND WASH SINK, NEW DRAIN TO RUN IN WALL AND CONNECT TO EXISTING 500 DRAIN DOWNSTREAM OF EXISTING URINALS, ABOVE GRADE. REFER TO DETAIL 2/M701.
- 13 PROVIDE NEW PLUMBING FIXTURE IN SAME LOCATION AS REMOVED EXISTING FIXTURE. RECONNECT FIXTURE TO EXISTING PLUMBING AND DRAINAGE SERVICES. REPLACE ALL ASSOCIATED SUPPORTS, HANGERS, WATER SUPPLIES, VALVES, TOILET FLANGES, ETC. FOR A COMPLETE REPLACEMENT.
- 14 CONDENSATE DRAIN TO DROP DOWN WITHIN PARTITION AND TERMINATE INDIRECTLY ABOVE NEW HUB DRAIN WITHIN MILLWORK.
- 15 CONDENSATE DRAIN TO DROP DOWN ALONG FACE OF FIRE RATED PARTITION AND TERMINATE INDIRECTLY ABOVE RIM OF SINK.
- 16 NPS 1/2 DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK FROM CEILING SPACE. NPS 1-1/2 SANITARY DRAIN TO RUN WITHIN WALL AND CONNECT TO EXISTING DRAIN ABOVE GRADE. PROVIDE NEW HUB DRAIN WITHIN MILLWORK AND CONNECTED TO TAILPIECE OF SINK DRAIN TO RECEIVE AC UNIT CONDENSATE DRAINAGE.
- 17 REWORK EXISTING NPS 1-1/4 VENT PIPING AS REQUIRED TO SUIT NEW SINK.
- 18 NPS 3/4 DOMESTIC HOT AND COLD WATER PIPES DOWN ALONG FACE OF WALL TO SERVE HAND WASH SINK AND EYEWASH. REFER TO DETAIL 2/M701.
- 19 NPS 1/2 DOMESTIC COLD WATER PIPE DOWN TO BOTTLE FILLER FROM CEILING SPACE. NPS 1-1/2 DRAIN TO RUN IN WALL AND CONNECT TO EXISTING LAVATORY DRAIN WITHIN WALL.
- 20 NEW COMBUSTION AIR AND FLUE VENT UP THROUGH ROOF COMPLETE WITH CONCENTRIC FITTING APPROVED BY HOT WATER HEATER MANUFACTURER. FLUE VENT TERMINATIONS ABOVE ROOF LEVEL SHALL BE SEPARATED BY A MINIMUM 5.0 METERS FROM ANY OUTDOOR AIR INTAKE.
- 21 NEW GAS METER BY GAS UTILITY. COORDINATE WITH GAS UTILITY FOR INSTALLATION AND REWORK OF EXISTING GAS SERVICE IF REQUIRED. REFER TO GAS SCHEMATIC 2/M702.
- 22 PROVIDE NEW CONDENSATE PUMP AT FLOOR LEVEL FOR CLIENT SUPPLIED IN-RACK AIR CONDITIONING UNIT. RUN CONDENSATE DRAIN FROM PUMP THROUGH CEILING SPACE AS INDICATED. CONDENSATE DRAINS SHALL BE COPPER. FLEXIBLE TUBING IS NOT ACCEPTED. COORDINATE WITH OWNER AND OWNER'S I.T. VENDOR PRIOR TO INSTALLATION.
- 23 PROVIDE NEW CONDENSATE PUMP FOR AIR CONDITIONING UNIT. RUN CONDENSATE DRAIN FROM PUMP THROUGH CEILING SPACE AS INDICATED. CONDENSATE DRAINS SHALL BE COPPER. FLEXIBLE TUBING IS NOT ACCEPTED.
- 24 PROVIDE WALL MOUNTED AIR CONDITIONING UNIT COMPLETE WITH OUTDOOR CONDENSER, HANGERS, SUPPORTS, REFRIGERANT PIPING, CONTROLS.
- 25 NPS 3/4 DOMESTIC COLD WATER PIPE TO RUN DOWN WITHIN PARTITION TO EXISTING HOSE BIBB.
- 26 PROVIDE NEW ISOLATION VALVES ON EXISTING PIPING.
- 27 PROVIDE NEW GAS FIRED RADIANT TUBE HEATER COMPLETE WITH ASSOCIATED SUPPORTS. CONNECT NEW NPS 1/2 GAS PIPING TO EXISTING GAS MAIN AS INDICATED AND EXTEND TO NEW HEATER COMPLETE WITH ISOLATION VALVE.
- 28 INSTALL NEW PRV ON EXISTING GAS PIPING TO STEP DOWN GAS PRESSURE FROM 14 KPA TO 2 KPA (2 PSI TO 7 INWG). CONFIRM GAS PRESSURE REQUIREMENTS FOR DOWNSTREAM GAS FIRED EQUIPMENT PRIOR TO ORDERING PRVS.
- 29 PROVIDE NEW PIPE INSULATION ON ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING (TYPICAL).



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3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

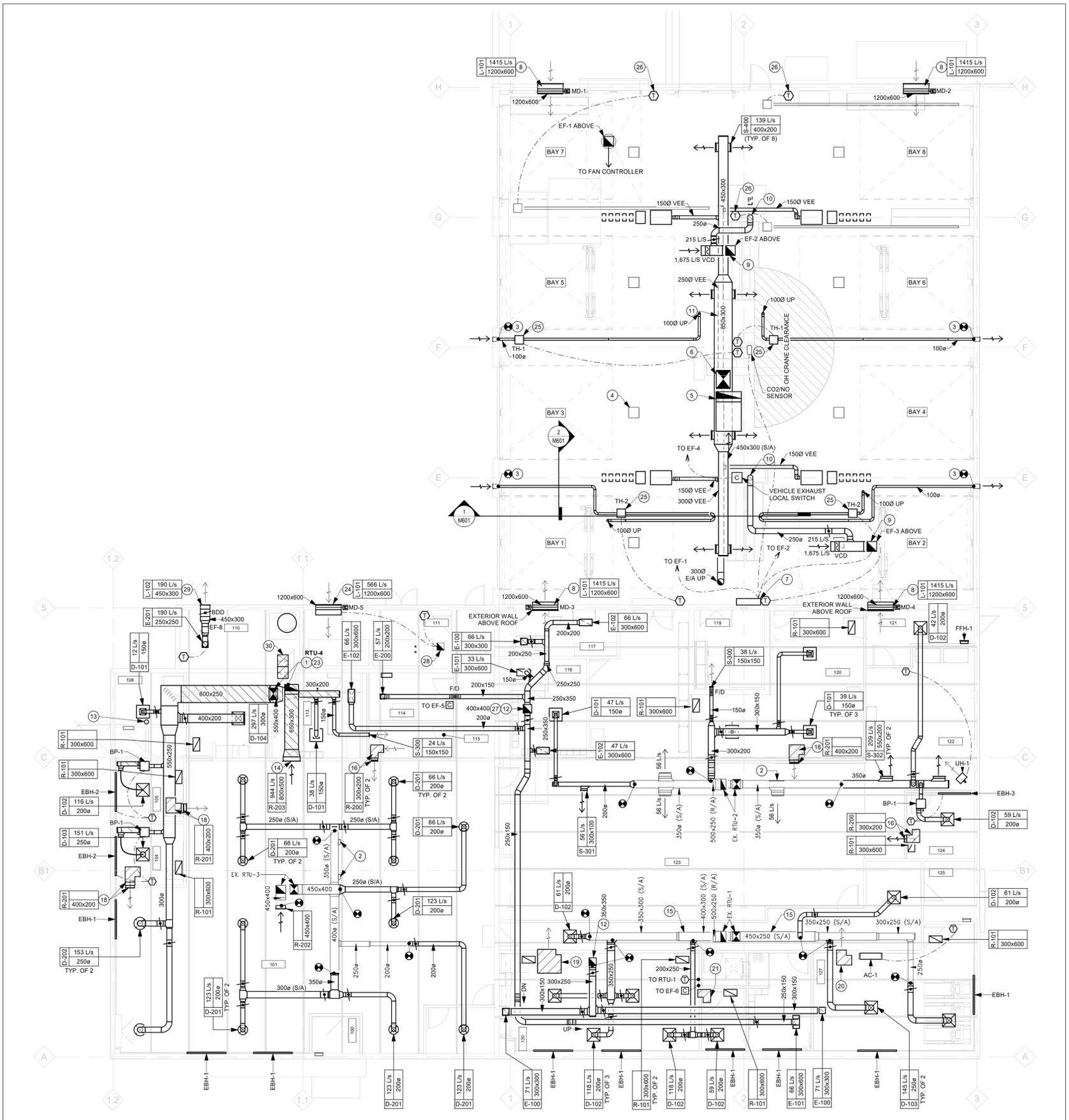
TITLE
GROUND FLOOR PLUMBING AND PIPING PLAN

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DRAWN BY: DS	
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1 GROUND FLOOR HVAC LAYOUT
M301 Scale: 1:100

GENERAL NOTES

- A LOCATION OF GARAGE SERVICE REELS ARE DIAGRAMMATIC IN NATURE. ALLOW FOR INSTALLING EACH REEL WITHIN 3.0 METERS OF LOCATION SHOWN TO SUIT OWNER PREFERENCE AND SITE CONDITIONS. SUBMIT DIMENSIONED SHOP DRAWINGS IN PLAN AND ELEVATIONS VIEW FOR TYPICAL REEL INSTALLATION FOR OWNER REVIEW. PRICE IN TENDER FOR ALL ASSOCIATED COSTS.
- B ALL CONTROL WIRING SHALL BE RUN WITHIN CONDUIT EXCEPT FOR AREAS WHERE PIPING IS WITHIN ENCLOSED GELLING.

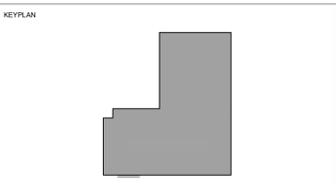
DRAWING NOTES

- 1 PROVIDE NEW SUPPLY AND RETURN DUCTWORK TO/FROM NEW ROOF TOP UNIT. REFER TO SHEET M302 FOR CONTINUATION.
- 2 EXISTING DUCTWORK TO BE CAPPED.
- 3 CONNECT NEW GAS FIRED HEATER COMBUSTION AIR/FLUE VENT TO EXISTING WALL VENT CAP.
- 4 EXISTING GARAGE DOOR OPENER AT 4340MM AFF (TYPICAL OF 8).
- 5 1200x200 RETURN AIR DUCT FROM ROOF TOP UNIT ABOVE. ADD ELBOW AND TERMINATE OPEN ENDED ABOVE JOISTS COMPLETE WITH WIRE MESH SCREEN.
- 6 850x650 SUPPLY AIR DUCT FROM ROOF TOP UNIT ABOVE. CONNECT TO CUSTOM VERTICAL TRANSITION WYE AND RUN 750x300 DUCTS NORTH AND SOUTH.
- 7 PROVIDE NEW EXHAUST FAN CONTROL PANEL. NEW GAS DETECTION CONTROLLER SHALL BE CONNECTED TO EXHAUST FANS EF-1, EF-2 AND EF-3 AND TO FOUR (4) MOTORIZED DAMPERS AT EXTERIOR OF BUILDING.
- 8 PROVIDE NEW MAKE UP AIR DUCT THROUGH EXTERIOR WALL AT HIGH LEVEL COMPLETE WITH MOTORIZED DAMPER. EXTERIOR LOUVER BY ARCHITECTURAL DIVISION. MOTORIZED DAMPER TO BE CONTROLLED BY GARAGE GAS DETECTION CONTROLLER TO OPEN WHEN GAS IS DETECTED AND FANS ENGAGE HIGH SPEED SETTING FOR GAS EVACUATION.
- 9 CONNECT DUCT TO INLET OF ROOF EXHAUST FAN AND EXTEND INTO GARAGE AT HIGH LEVEL BETWEEN OPEN WEB STEEL JOISTS WITH ELBOW COMPLETE WITH TURNING VANES. DUCT SHALL BE FULL SIZE OF EXHAUST FAN INLET.
- 10 2500 EXHAUST DUCT DOWN AND TERMINATE 450MM ABOVE FLOOR COMPLETE WITH GRILLE.
- 11 VEHICLE EXHAUST EXTRACTION DUCTWORK SHALL BE SPIRAL MEDIUM PRESSURE CONSTRUCTION (1250Pa, 5.0INWG). VEHICLE EXHAUST EXTRACTION DUCT TO RUN BELOW ROOF TOP UNIT SUPPLY DUCT.
- 12 SANITARY EXHAUST DUCT UP, THROUGH EXISTING ROOF OPENING AND CONNECT EXHAUST AIR DUCTWORK TO ROOF MOUNTED EXHAUST FAN. DUCT SIZE INDICATED ON DRAWING.
- 13 CONNECT NEW EXHAUST DUCT TO OWNER SUPPLIED AND INSTALLED IN-RACK COOLING UNIT. PROVIDE AND INSTALL EXHAUST DUCT KIT MAKE GATON MODEL SR-COOL7KDUCT. EXTEND 150 DIA. DUCT UP THROUGH CEILING AND TERMINATE OPEN ENDED DUCT INTO CEILING SPACE. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK. COORDINATE ALL REQUIREMENTS WITH OWNER AND OWNER'S I.T. VENDOR ON SITE PRIOR TO INSTALLATION.
- 14 MOUNT RETURN AIR GRILLE ON WALL AT HIGH LEVEL. TERMINATE TOP OF GRILLE AT APPROX. 3575mm ABOVE FINISHED FLOOR.
- 15 PROVIDE NEW DUCT INSULATION ON ALL EXISTING SUPPLY AIR DUCTWORK WITHIN CEILING PLENUM (TYPICAL).
- 16 INSTALL 300mmX200mm ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL COMPLETE WITH RETURN AIR GRILLE.
- 18 INSTALL 400mmX200mm ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL COMPLETE WITH RETURN AIR GRILLE.
- 19 INSTALL 800mmX300mm ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL.
- 20 INSTALL 400mmX300mm ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL.
- 21 INSTALL 300mmX200mm ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL.
- 23 PROVIDE ACOUSTICAL DUCT LINING ON SUPPLY AND RETURN DUCT FROM ROOF TOP UNIT. MINIMUM 4.3 METERS (15'). REFER TO SPECIFICATIONS FOR DETAILS.
- 24 PROVIDE NEW MAKE UP AIR DUCT THROUGH EXTERIOR WALL AT HIGH LEVEL COMPLETE WITH MOTORIZED DAMPER. EXTERIOR LOUVER BY ARCHITECTURAL DIVISION.
- 25 PROVIDE NEW GAS FIRED RADIANT TUBE HEATER COMPLETE WITH ASSOCIATED COILS, THERMOSTAT, ETC. RUN NEW COMBUSTION AIR DUCT AND FLUE EXHAUST DUCT TO EXTERIOR AS INDICATED ON DRAWING.
- 26 PROVIDE NEW LINE VOLTAGE WALL MOUNTED THERMOSTAT AND CONNECT TO EXISTING GAS FIRED RADIANT TUBE HEATER. LINE VOLTAGE THERMOSTAT TO BE PROVIDED BY MECHANICAL DIVISION. INSTALLED AND WIRED BY ELECTRICAL DIVISION.
- 27 ALL SANITARY EXHAUST DUCTWORK ON THIS SYSTEM SHALL BE ALUMINUM.
- 28 OPEN ENDED DUCT TO EXHAUST FAN EF-7 ON ROOF ABOVE.
- 29 PROVIDE NEW EXHAUST AIR DUCT THROUGH EXTERIOR WALL AT HIGH LEVEL COMPLETE WITH BACKDRAFT DAMPER.
- 30 INSTALL 500x300 ACOUSTICALLY LINED TRANSFER DUCT AT HIGH LEVEL.

ROOM SCHEDULE

100	VESTIBULE
101	UNIFORMS
102	CHANGE RM
103	CHANGE (BF)
104	OFFICE
105	HOTEL OFFICE
106	VESTIBULE
107	CORRIDOR
108	IT ROOM
109	BREAK ROOM
110	EXIST. ELEC ROOM
111	EXIST. MECH ROOM
112	VESTIBULE
113	WOMEN'S W/R
114	JANITOR
115	STORES
116	MEN'S LOCKER
117	MEN'S W/R
118	FLEET GARAGE
119	FLEET STORAGE
120	FLEET OFFICE
121	VESTIBULE
122	SHIPPING RECEIVING
123	FLEET
124	S&R CLERK
125	VESTIBULE
126	CORRIDOR
127	FITNESS AREA
128	UNIVERSAL W/R
129	MULTI-PURPOSE ROOM
130	LUNCHROOM
132	ROOF ACCESS/STOR.

CLIENT LOGO



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
GROUND FLOOR H.V.A.C. PLAN

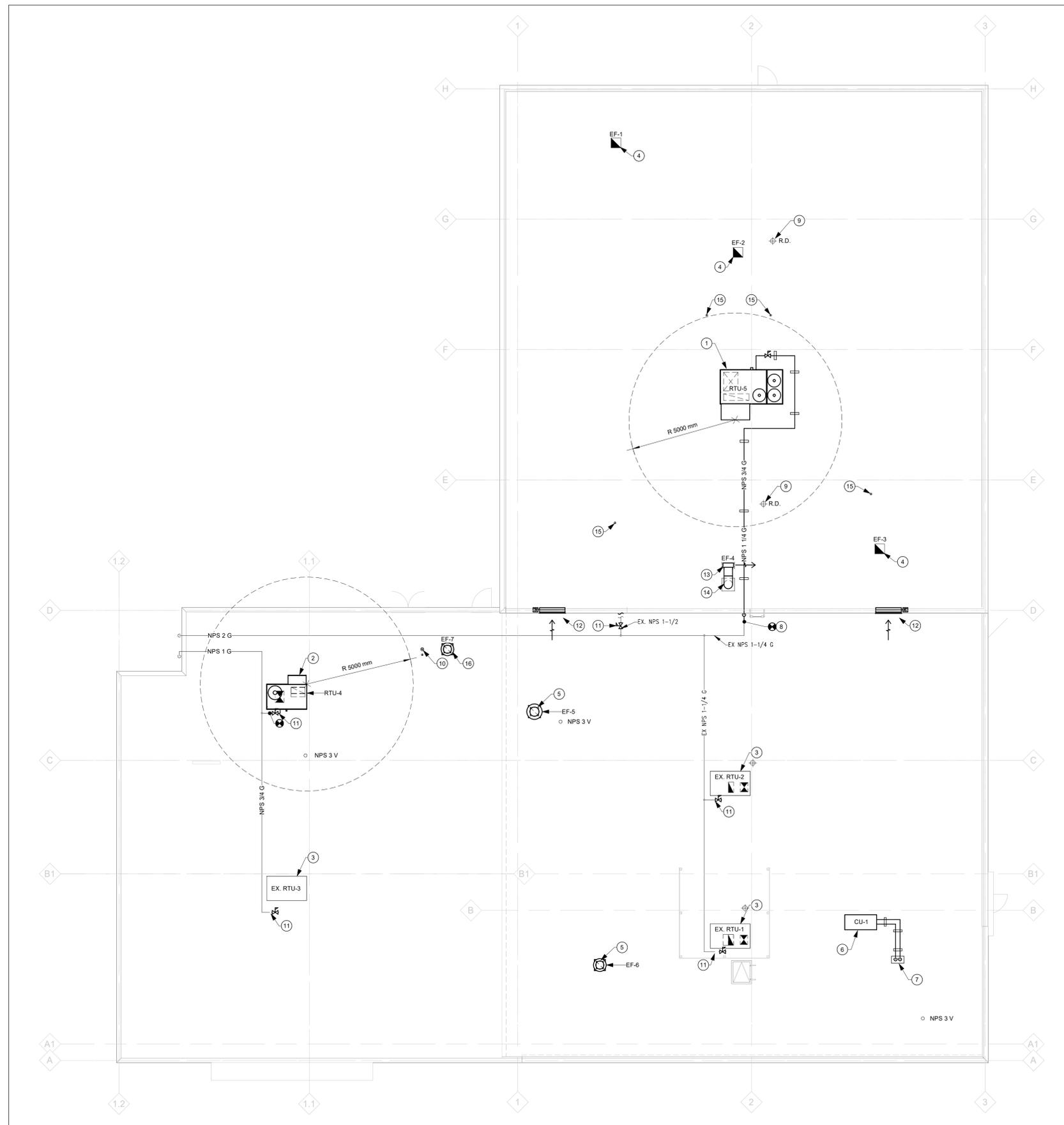
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SCALE:	AS NOTED	SHEET NO.:	M301
DATE:	04/12/22	PROJECT NO.:	2024-1007-10
DRAWN BY:	DS / DP	CHECKED BY:	JC



1 ROOF HVAC LAYOUT
M302 Scale: 1 : 100

GENERAL NOTES

- A COORDINATE ALL MECHANICAL WORK ON ROOF WITH ROOFING CONTRACTOR. ALL ROOFING WORK TO BE COMPLETED BY MANDATED ROOFING CONTRACTOR FOR THIS PROJECT.
- B COORDINATE WITH ROOFING CONTRACTOR. REFER TO ENGLINK ROOFING DRAWINGS FOR NEW EQUIPMENT CURBS, ROOF DRAINS, DOGHOUSE, AND PIPING SUPPORT.

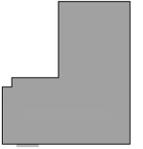
DRAWING NOTES

- 1 PROVIDE NEW ROOF TOP UNIT COMPLETE WITH ROOF CURB, ECONOMIZER, DUCTWORK AND CONTROLS. OUTDOOR AIR INTAKE TO BE LOCATED A MINIMUM OF 3.0 METERS FROM EXHAUST TERMINATION AND MINIMUM 5.0 METERS FROM FLUE EXHAUST TERMINATION ON ROOF. NEW SUPPLY AND RETURN DUCTS TO DROP DOWN ON EITHER SIDE OF EXISTING JOISTS INTO GARAGE AT HIGH LEVEL.
- 2 PROVIDE NEW ROOF TOP UNIT TO REPLACE EXISTING UNIT COMPLETE WITH NEW CURB ADAPTER. CONNECT UNIT TO EXISTING DUCTWORK DOWN THROUGH ROOF. CONNECT UNIT TO EXISTING GAS SERVICE ON ROOF.
- 3 SUPPLY NEW ECONOMIZER MODULE AND INSTALL INTO EXISTING ROOF TOP UNIT. COORDINATE WITH EXISTING MANUFACTURER (CARRIER) TO SOURCE ECONOMIZER FOR MODEL ROOF TOP UNIT (R0V099). BALANCE MINIMUM OUTDOOR AIR SETPOINT AS PER ROOF TOP UNIT SCHEDULE.
- 4 PROVIDE NEW ROOF EXHAUST FAN COMPLETE WITH NEW ROOF CURB AND FLASHING. COORDINATE WITH NEW ROOF REPLACEMENT WORK. REFER TO DETAIL 4M801.
- 5 PROVIDE NEW ROOF EXHAUST FAN COMPLETE WITH NEW ROOF CURB ADAPTER AND BACKDRAFT DAMPER. VERIFY EXISTING CURB ON SITE PRIOR TO ORDERING. REFER TO DETAIL 4M801.
- 6 PROVIDE ROOF MOUNTED CONDENSER UNIT COMPLETE WITH ALL ASSOCIATED REFRIGERANT PIPING AND CONTROLS. PROVIDE MANUFACTURER APPROVED ROOF STAND TO ELEVATE UNIT MINIMUM 450MM ABOVE ROOF LEVEL.
- 7 REFRIGERANT LIQUID AND SUCTION PIPING DOWN FROM BELOW. NEW DOGHOUSE CONSTRUCTED BY ROOFING CONTRACTOR. REFER TO ROOFING REPLACEMENT DRAWINGS.
- 8 CONNECT NEW NPS 3/4 GAS PIPE TO EXISTING NPS 1-1/4 GAS PIPE AND EXTEND AS INDICATED UP TO HIGH ROOF. PROVIDE NEW ROOF SUPPORTS.
- 9 NEW ROOF DRAINS BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR TO CONNECT ROOF DRAINS TO EXISTING STORM DRAIN. ALLOW FOR REMOVAL AND REINSTATEMENT OF EXISTING ROOF DRAIN SUMPS AND REPAIR/REPLACEMENT OF EXISTING INSULATION.
- 10 NEW 750 CONCENTRIC VENT UP THROUGH EXISTING ROOF OPENING TO SERVE NEW GAS FIRED HOT WATER HEATER. FLUE VENT SHALL BE A MINIMUM OF 5.0 M (15FT) FROM ANY OUTDOOR INTAKE. REFER TO GROUND FLOOR PLUMBING AND PIPING PLAN FOR CONTINUATION.
- 11 INSTALL NEW PRV ON EXISTING GAS PIPING TO STEP DOWN GAS PRESSURE FROM 14 KPA TO 2 KPA (2 PSI TO 7 INWG). CONFIRM GAS PRESSURE REQUIREMENTS FOR DOWNSTREAM GAS FIRED EQUIPMENT PRIOR TO ORDERING PRVS.
- 12 NEW MAKE UP AIR INTAKE ON EXTERIOR SIDE OF GARAGE. REFER TO DRAWING M301 FOR CONTINUATION. AIR INTAKE SHALL BE LOCATED MINIMUM 450MM ABOVE ROOF LEVEL. LOUVER BY ARCHITECTURAL DIVISION.
- 13 PROVIDE NEW ROOF MOUNTED CENTRIFUGAL FAN COMPLETE SPRING ISOLATORS, DISCHARGE SHUTTER, FAN OUTLET TO FACE EAST AS INDICATED.
- 14 400Ø EXHAUST DUCT THROUGH ROOF FROM BELOW COMPLETE WITH NEW ROOF CURB.
- 15 NEW FLUE EXHAUST VENT THROUGH ROOF FROM RADIANT TUBE HEATER BELOW. FLUE VENT SHALL BE A MINIMUM OF 5.0M (15FT) FROM ANY OUTDOOR INTAKE.
- 16 PROVIDE NEW ROOF EXHAUST FAN FOR MECHANICAL ROOM VENTILATION. REFER TO DETAIL 4M801.

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE

ROOF MECHANICAL PLAN

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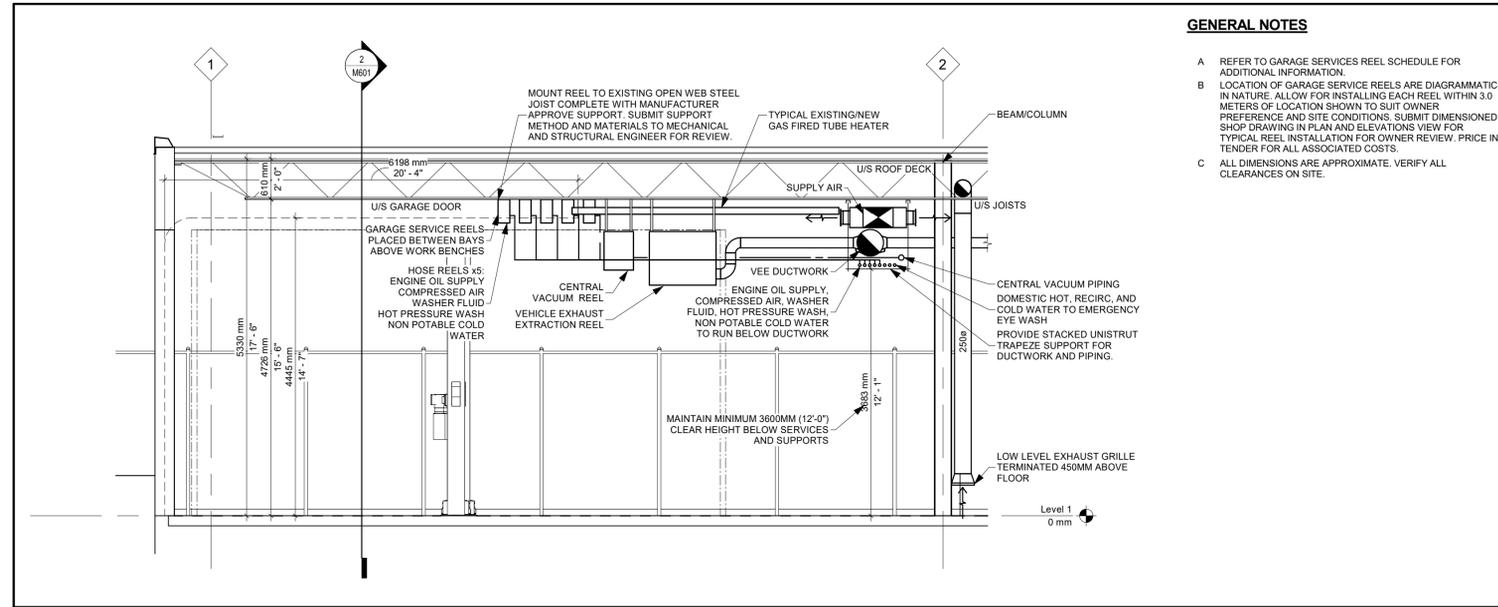
SEAL



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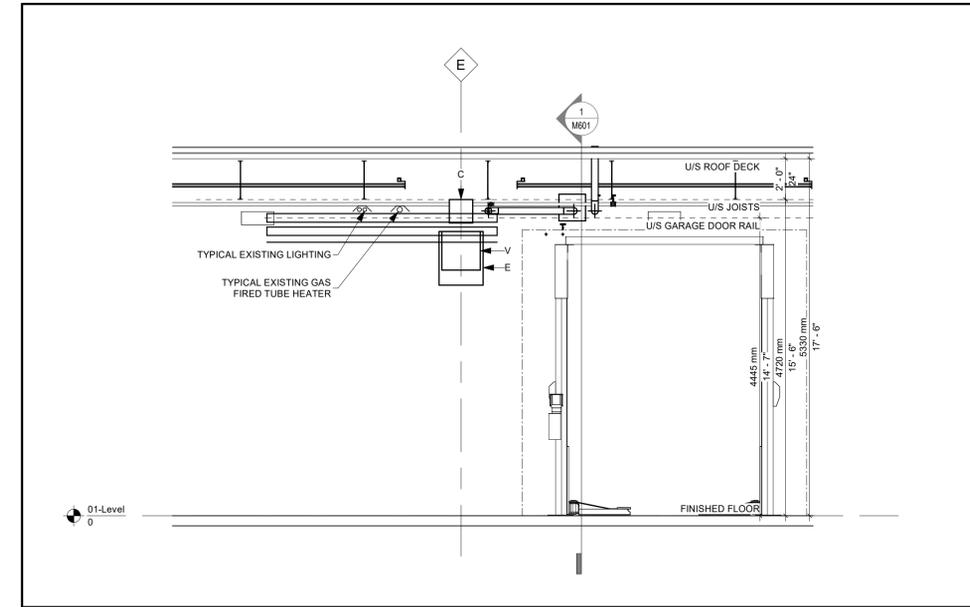
SCALE:	AS NOTED	SHEET NO.:
DATE:	04/12/22	M302
PROJECT NO.:	2024-1007-10	
DRAWN BY:	DS	
CHECKED BY:	JC	



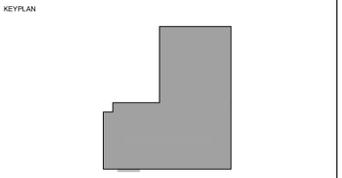
1 TYPICAL GARAGE SERVICES SECTION
M601 Scale: 1 : 50

GENERAL NOTES

- A REFER TO GARAGE SERVICES REEL SCHEDULE FOR ADDITIONAL INFORMATION.
- B LOCATION OF GARAGE SERVICE REELS ARE DIAGRAMMATIC IN NATURE. ALLOW FOR INSTALLING EACH REEL WITHIN 3.0 METERS OF LOCATION SHOWN TO SUIT OWNER PREFERENCE AND SITE CONDITIONS. SUBMIT DIMENSIONED SHOP DRAWING IN PLAN AND ELEVATIONS VIEW FOR TYPICAL REEL INSTALLATION FOR OWNER REVIEW. PRICE IN TENDER FOR ALL ASSOCIATED COSTS.
- C ALL DIMENSIONS ARE APPROXIMATE. VERIFY ALL CLEARANCES ON SITE.



2 GARAGE HEATER SECTION
M601 Scale: 1 : 50



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON

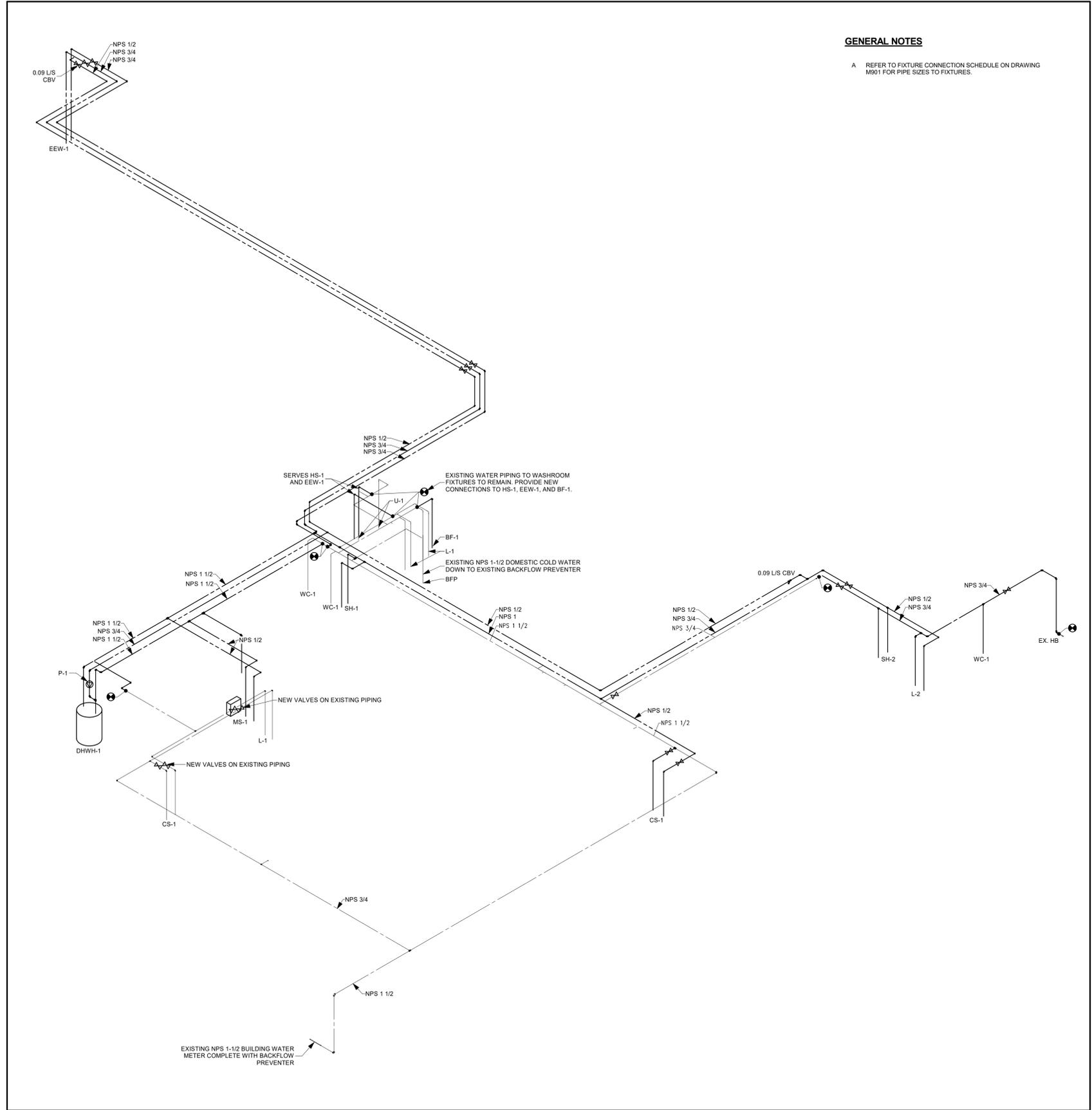
PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
MECHANICAL SECTIONS



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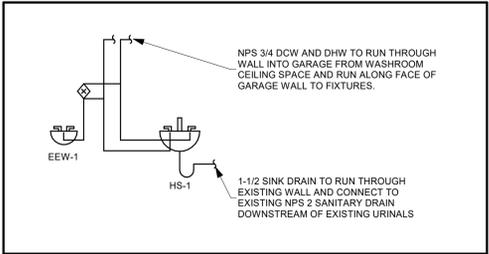
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SCALE: AS NOTED	SHEET NO: M601
DATE: 04/12/22	
PROJECT NO: 2024-1007-10	
DRAWN BY: Author	
CHECKED BY: Checker	



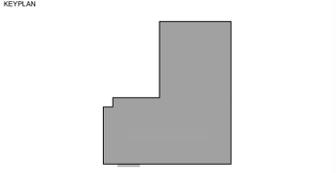
1 DOMESTIC WATER PIPING SCHEMATIC
M701 N.T.S.

GENERAL NOTES

A REFER TO FIXTURE CONNECTION SCHEDULE ON DRAWING M901 FOR PIPE SIZES TO FIXTURES.



2 GARAGE EYEWASH AND HAND SINK DETAIL
M701 N.T.S.



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

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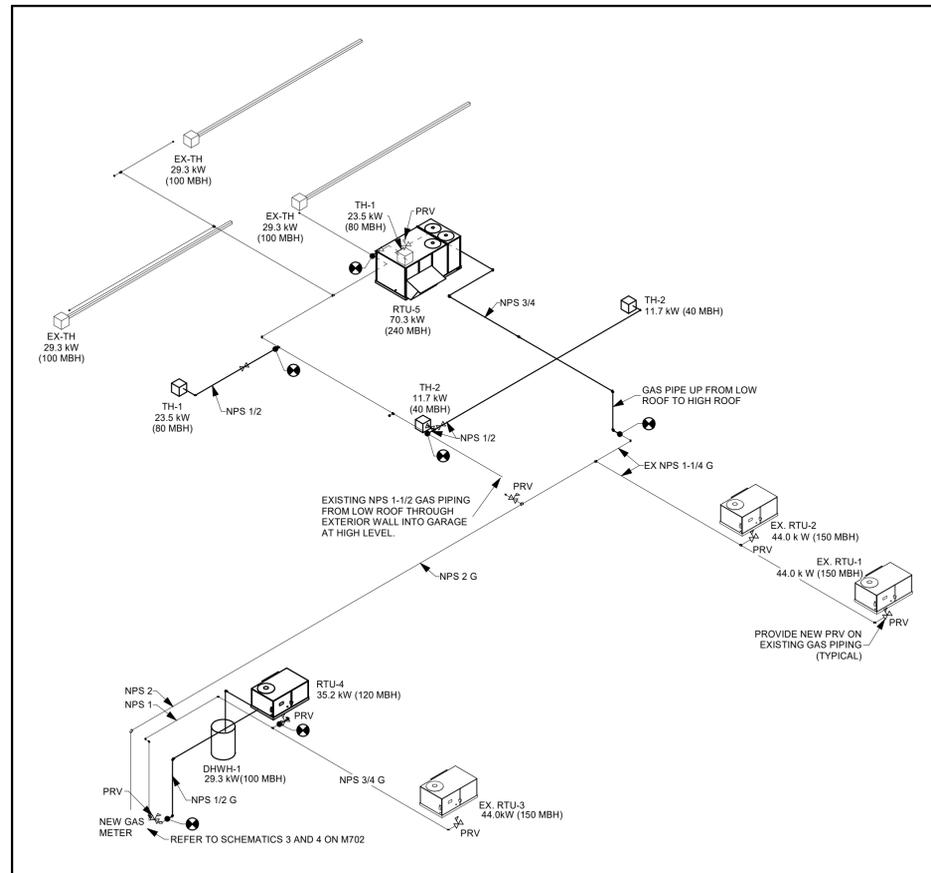
PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
DOMESTIC WATER PIPING SCHEMATIC

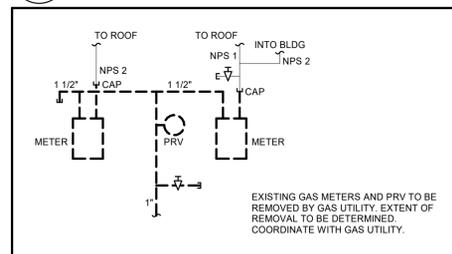


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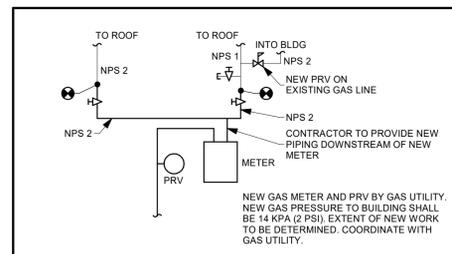
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DATE: 04/12/22	
PROJECT NO: 2024-1007-10	
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CHECKED BY: JC	



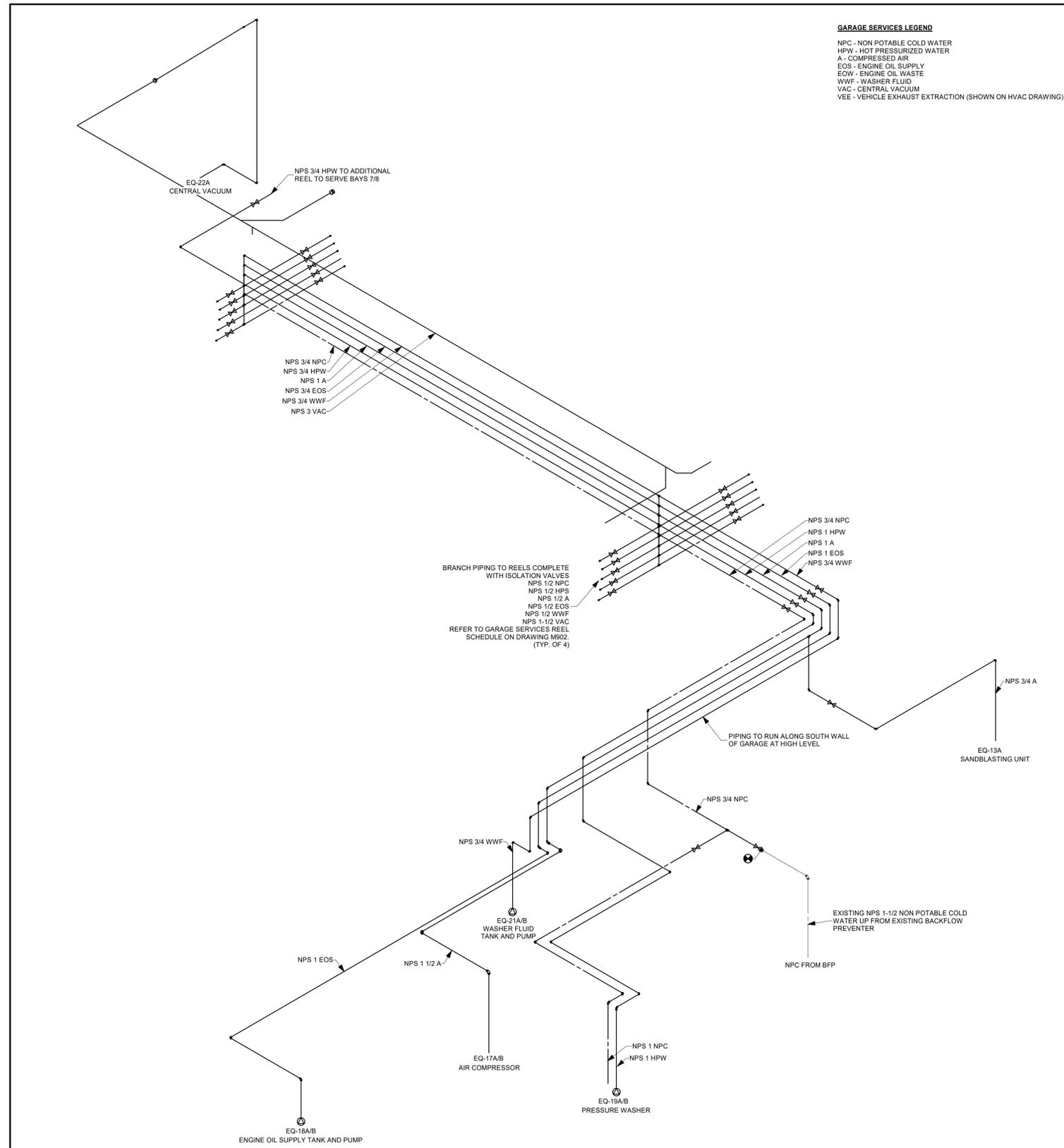
2 GAS PIPING SCHEMATIC
M702 N.T.S.



3 GAS PIPING SCHEMATIC - DEMOLITION
M702 N.T.S.

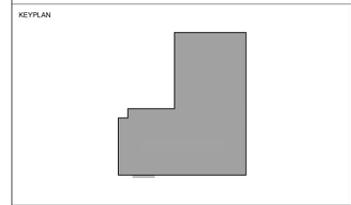


4 GAS PIPING SCHEMATIC - NEW
M702 N.T.S.



1 GARAGE SERVICES PIPING SCHEMATIC
M702 N.T.S.

GARAGE SERVICES LEGEND
 NPC - NON POTABLE COLD WATER
 HPW - HOT PRESSURIZED WATER
 A - COMPRESSED AIR
 EOS - ENGINE OIL SUPPLY
 EOW - ENGINE OIL WASTE
 WWF - WASHER FLUID
 VAC - CENTRAL VACUUM
 VEE - VEHICLE EXHAUST EXTRACTION (SHOWN ON HVAC DRAWING)



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CLIENT
CITY OF HAMILTON

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

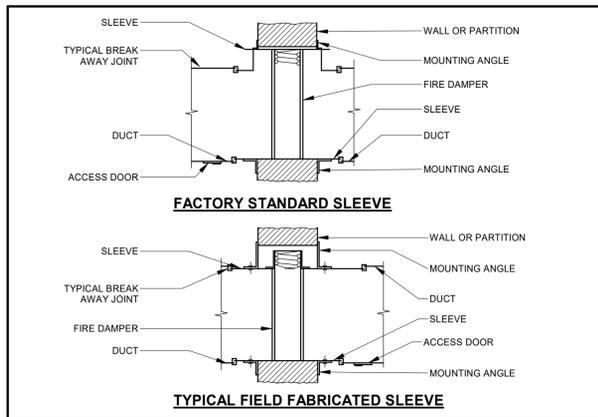
TITLE
GARAGE SERVICES AND GAS PIPING SCHEMATICS

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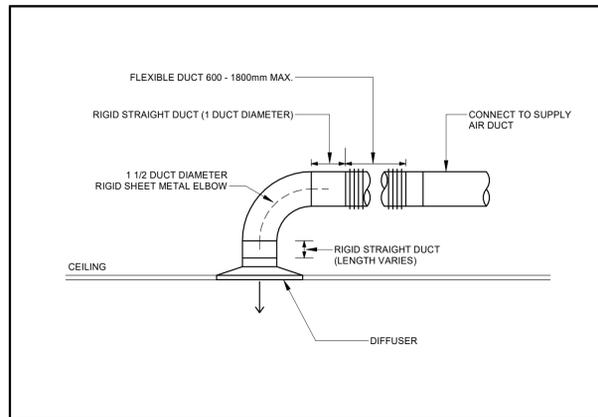


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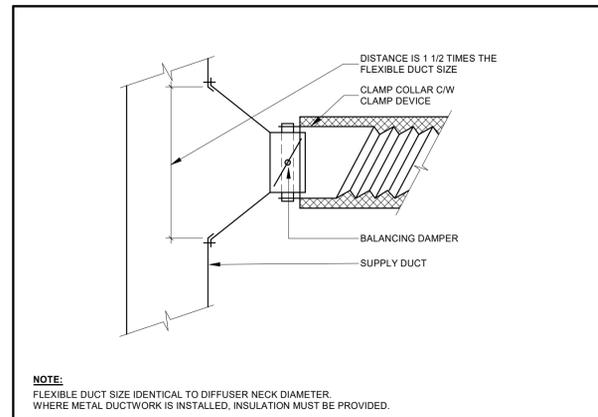
SCALE:	AS NOTED	SHEET NO.:
DATE:	04/12/22	M702
PROJECT NO.:	2024-1007-10	
DRAWN BY:	AR	
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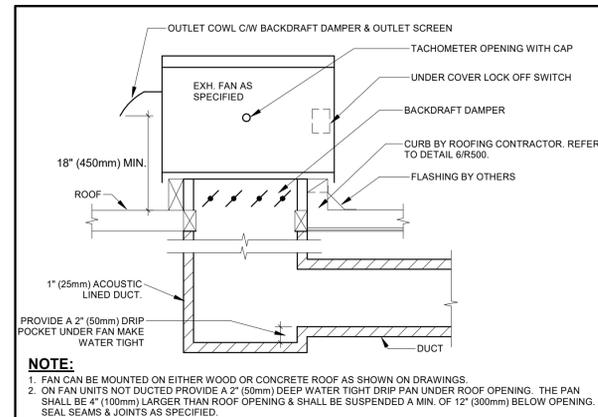
1 FIRE DAMPER
M801 N.T.S.



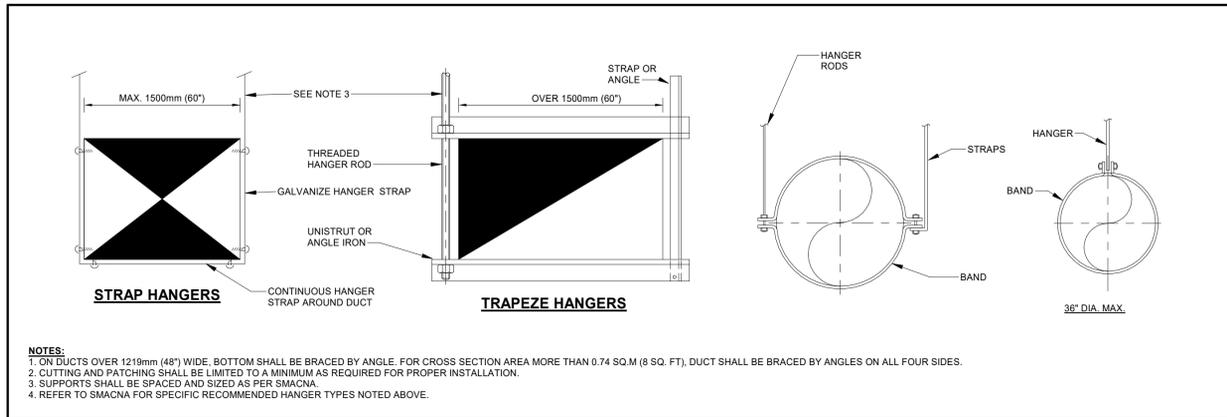
2 TYPICAL DIFFUSER DUCTING
M801 N.T.S.



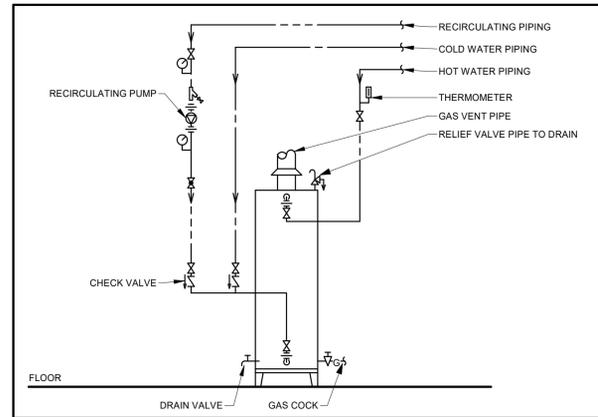
3 TYPICAL DUCT BRANCH TAKE-OFF -FLEX DUCT
M801 N.T.S.



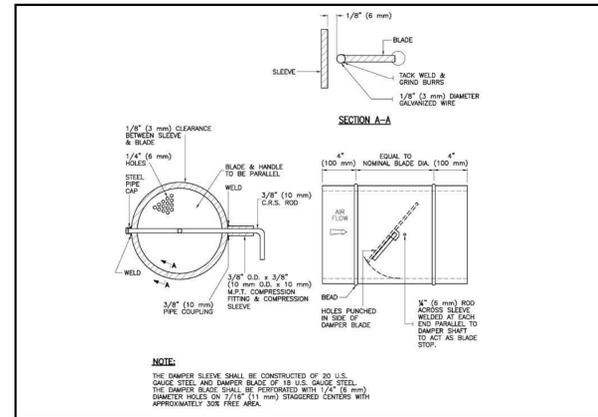
4 ROOF MOUNTED EXHAUST FAN
M801 N.T.S.



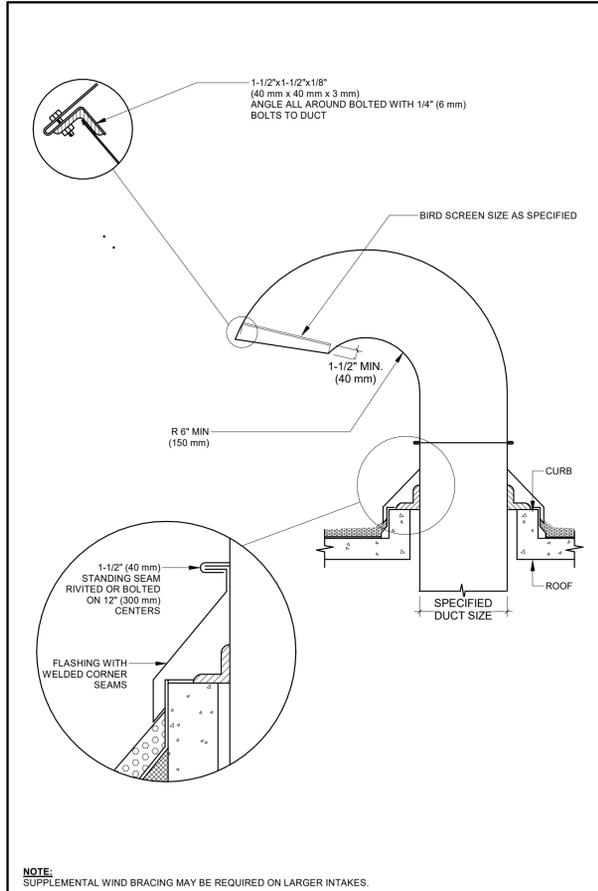
5 DUCT HANGER SUPPORT DETAIL
M801 N.T.S.



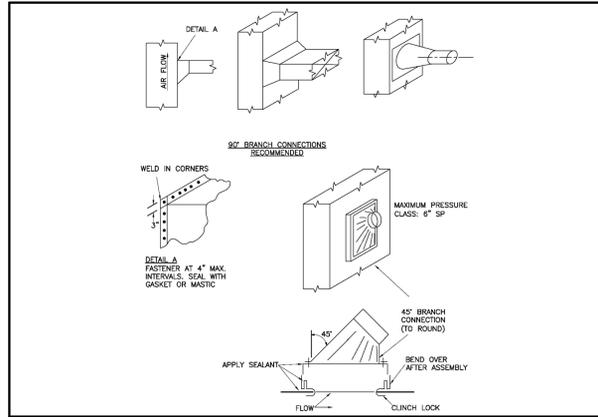
6 HOT WATER PIPING SCHEMATIC (GAS)
M801 N.T.S.



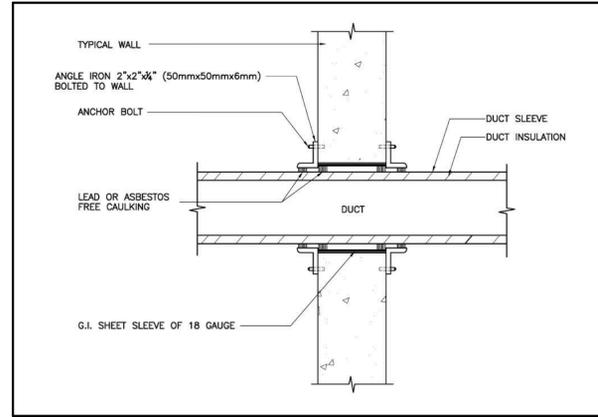
7 ROUND BALANCING DAMPER
M801 N.T.S.



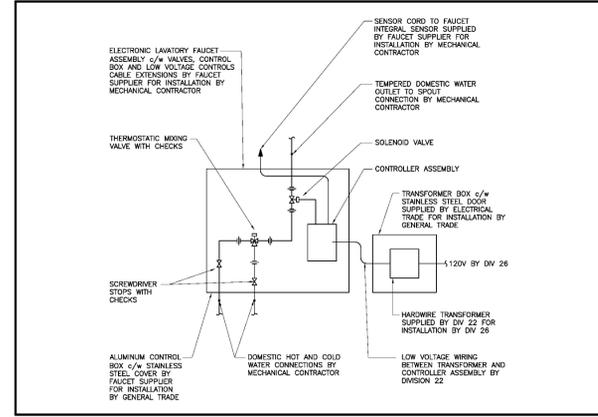
8 GOOSENECK OUTSIDE AIR INTAKE OR DISCHARGE
M801 N.T.S.



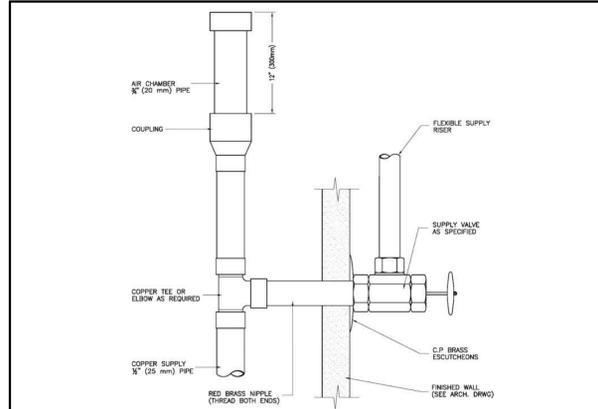
9 BRANCH CONNECTIONS RECOMMENDED
M801 N.T.S.



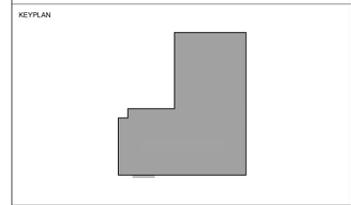
10 DUCT THRU WALL
M801 N.T.S.



11 HARDWIRED ELECTRONIC FAUCET ASSEMBLY
M801 N.T.S.



12 FIXTURE STOP DETAIL
M801 N.T.S.



No.	ISSUANCE	DATE
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CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

HPS FLEET SERVICES
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371 BARTON ST. E., HAMILTON, ONTARIO

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DATE:	04/12/22		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	AR		
CHECKED BY:	JC		

M801

ROOF TOP UNIT SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	SUPPLY FAN			MINIMUM OUTDOOR AIRFLOW (L/s)	POWER SUPPLY (V/PHz)	MOC (A)	MCA (A)	FLA (A)	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	COOLING			HEATING			FILTER			DIMENSIONS (L (mm) W (mm) H (mm))	WEIGHT (kg)	REMARKS				
				AIRFLOW (L/s)	ESP (Pa)	FAN POWER (kW)								EAT (DBWB)...	LAT (DBWB) (°C)	AMBIENT (°C)	REFRIGERANT	INPUT CAPACITY (kW)	OUTPUT CAPACITY (kW)	EAT (°C)	LAT (°C)	TYPE				TYPE	EFF.		
EX RTU-1		ICP (CARRIER)	RGV060HFFA0AAA	944			175	230/360				18.2	13.7				R-410A	44	35.2									EXISTING UNIT. PROVIDE NEW ECONOMIZER. REPLACE FILTER AT END OF CONSTRUCTION.	
EX RTU-2		ICP (CARRIER)	RGV060HFFA0AAA	944			125	230/360				18.2	13.7				R-410A	44	35.2									EXISTING UNIT. PROVIDE NEW ECONOMIZER. REPLACE FILTER AT END OF CONSTRUCTION.	
EX RTU-3		ICP (CARRIER)	RGV060HFFA0AAA	944			110	230/360				18.2	13.7				R-410A	44	35.2									EXISTING UNIT. PROVIDE NEW ECONOMIZER. REPLACE FILTER AT END OF CONSTRUCTION.	
RTU-4		CARRIER	48GETM06A3M5-8W9A0	944	373.6	1.46	60	208/360	40	27	27	18.2	13.7	26.7/19.4	14.7/14.0	35	R-454B	35.2	28.1	21.1	52	NATURAL GAS	THROWAWAY	MERV-13	1889	1186	1051	327	PROVIDE NEW ROOF CURB ADAPTER TO SUIT EXISTING ROOF CURB.
RTU-5	FLEET GARAGE (118)	CARRIER	48GETM14A3M5-8W3N0	2360	373.6	2.42	566	208/360	80	68	70	47.1	34	26.1/19.1	13.6/13.3	31.1	R-454B	70.3	57.1	11	31.9	NATURAL GAS	THROWAWAY		2943	1610	1457	892	PROVIDE NEW ROOF CURB.

SPLIT A/C UNIT SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	INDOOR UNIT		AIRFLOW (L/s)	SEER	TAG	OUTDOOR UNIT		REFRIGERANT	ELECTRICAL			REMARKS
				COOLING CAPACITY (kW)	HEATING CAPACITY (kW)				MODEL	LOCATION		POWER SUPPLY (V/PHz)	MOC (A)	MCA (A)	
AC-1	FITNESS ROOM (127)	LG	KNSAL181A	8.2	8.0	433	24	CU-1	KUSAL181A	ROOFTOP	R32	208/160	30	19	PROVIDE LOW AMBIENT UNIT FOR OPERATION THROUGH WINTER. MOUNT UNIT ON 18" ROOF STAND PROVIDED BY MANUFACTURER.

BYPASS BOX SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	INLET SIZE (mm)	REMARKS
BP-1	PRIVATE OFFICES	EH PRICE	LGB	150	PROVIDE LOW VOLTAGE TRANSFORMER. PROVIDE 1.0M (3.0 FT) ATTENUATOR.

SUPPLY DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	NECK SIZE	FACE DIMENSIONS			FINISH	MATERIAL	REMARKS
						LENGTH	WIDTH	DIAMETER			
D-101	PRICE	SCD	SQUARE CONE	CEILING	150	305 mm	305 mm			STEEL	COMPLETE WITH 610mm X 610mm PANEL.
D-103	PRICE	SCD	SQUARE CONE	CEILING	250	603 mm	603 mm			STEEL	
D-104	PRICE	SCD	SQUARE CONE	CEILING	300	603 mm	603 mm			STEEL	
D-201	PRICE	RCD	ROUND CONE	OPEN DUCT	200			457 mm		STEEL	
D-202	PRICE	RCD	ROUND CONE	OPEN DUCT	250			572 mm		STEEL	

SUPPLY REGISTER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	DIMENSIONS		FINISH	MATERIAL	REMARKS
					LENGTH	WIDTH			
S-300	PRICE	520	LOUVRED GRILLE	OPEN DUCT	150	150		STEEL	DOUBLE DEFLECTION, COMPLETE WITH OPPOSED BLADE DAMPER.
S-301	PRICE	520	LOUVRED GRILLE	OPEN DUCT	300	100		STEEL	DOUBLE DEFLECTION, COMPLETE WITH OPPOSED BLADE DAMPER.
S-302	PRICE	520	LOUVRED GRILLE	OPEN DUCT	550	200		STEEL	DOUBLE DEFLECTION, COMPLETE WITH OPPOSED BLADE DAMPER.
S-400	PRICE	510	LOUVRED GRILLE	OPEN DUCT	400	200		STEEL	SINGLE DEFLECTION, COMPLETE WITH OPPOSED BLADE DAMPER.

RETURN GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	DUCT DIMENSIONS		FINISH	MATERIAL	REMARKS
					LENGTH	WIDTH			
R-101	PRICE	80	EGG CRATE	CEILING	300	600		STEEL	
R-200	PRICE	510Z	LOUVRED GRILLE	WALL	300	200		STEEL	RETURN WITH 0 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING
R-201	PRICE	510Z	LOUVRED GRILLE	WALL	400	200		STEEL	RETURN WITH 0 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING
R-202	PRICE	510Z	LOUVRED GRILLE	WALL	450	400		STEEL	RETURN WITH 0 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING
R-203	PRICE	510Z	LOUVRED GRILLE	WALL	800	500		STEEL	RETURN WITH 0 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING

EXHAUST GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	DUCT DIMENSIONS		FINISH	MATERIAL	REMARKS
					LENGTH	WIDTH			
E-100	PRICE	80	EGG CRATE	CEILING	300	300		STEEL	COMPLETE WITH 300x300x200 PLENUM AND BALANCING DAMPER ON DOWNSTREAM DUCTWORK.
E-101	PRICE	80	EGG CRATE	CEILING	300	600	ANODIZED	ALUMINIUM	FOR HUMID APPLICATION, COMPLETE WITH 600x300x200 PLENUM AND BALANCING DAMPER ON DOWNSTREAM DUCTWORK.
E-102	PRICE	80	EGG CRATE	CEILING	300	600		STEEL	COMPLETE WITH 600x300x200 PLENUM AND BALANCING DAMPER ON DOWNSTREAM DUCTWORK.
E-200	PRICE	535	LOUVRED GRILLE	OPEN DUCT	200	200		STEEL	EXHAUST WITH 45 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING.
E-201	PRICE	535	LOUVRED GRILLE	OPEN DUCT	250	250		STEEL	EXHAUST WITH 45 Deg. DEFLECTION 19mm-3/4 in. BLADE SPACING.

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	DIMENSIONS	MATERIAL	REMARKS
L-101	EH PRICE	DE439	4" STATIONARY DRAINABLE	1200x600	ALUMINIUM	
L-102	EH PRICE	DE439	4" STATIONARY DRAINABLE	450x300	ALUMINIUM	

EXHAUST FAN SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	SYSTEM	FAN			MOTOR			DRIVE	WEIGHT (KG)	REMARKS		
					AIR FLOW (L/s)	HP	RPM	STATIC PRESSURE (Pa)	ELECTRICAL (V/PHz)	FLA (A)				HP	RPM
EF-1	GARAGE ROOF	COOK	ACRU-D VF	GARGAGE EXHAUST	1888	0.79	1107	75	208/160	6.4	1.0	1725	DIRECT	78	1.6
EF-2	GARAGE ROOF	COOK	ACRU-D VF	GARGAGE EXHAUST	1888	0.79	1107	75	208/160	6.4	1.0	1725	DIRECT	78	1.6
EF-3	GARAGE ROOF	COOK	ACRU-D VF	GARGAGE EXHAUST	1888	0.79	1107	75	208/360	6.4	1.0	1725	DIRECT	78	1.6
EF-4	GARAGE ROOF	MONOXIVENT	120 CPS	VEHICLE EXHAUST	755	1.51	2864	1000	575/360	2.7	2	1725	BELT	98	2.7
EF-5	OFFICE ROOF	COOK	120 ACEB	SANITARY EXHAUST	401	0.132	1183	125	115/160	4.4	1/6	1725	BELT	23	3.6
EF-6	OFFICE ROOF	COOK	80 ACEB	GENERAL EXHAUST	142	0.061	1082	75	115/160	5.8	1/4	1725	BELT	20	4.6
EF-7	OFFICE ROOF	COOK	120 ACEB	GENERAL EXHAUST	566	0.143	1248	50	115/160	2.7	1/4	1725	BELT	20	5.6,9
EF-8	ELECTRICAL ROOM	COOK	80 SQNB	GENERAL EXHAUST	190	0.08	1379	50	115/160	4.4	1/6	1725	BELT		5.8

REMARKS

- CONTROL BY GAS DETECTION CONTROLLER. SEQUENCE WITH FOUR (4) NEW MOTORIZED DAMPERS FOR MAKE UP AIR.
- CONTROL BY VEHICLE EXHAUST CONTROLLER. CLASS 1 FAN. SUPPLY WALL MOUNTED LINE VOLTAGE SWITCH AND CONTROLLER BOX TO BE INSTALLED BY ELECTRICAL DIVISION.
- CONTROL BY PROGRAMMABLE 7-DAY TIMER LOCATED IN JANITOR ROOM (115). TIMER TO BE SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- CONTROL BY PROGRAMMABLE 7-DAY TIMER LOCATED IN LUNCH ROOM (130). TIMER TO BE SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- CONTROL BY REVERSE ACTING THERMOSTAT. THERMOSTAT TO BE SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- PROVIDE NEW ROOF CURB. TIE IN TO EXISTING ROOF BY OTHERS.
- MOUNT EXHAUST FAN ON SIX (6) SPRING ISOLATORS. LOREN COOK TYPE RS-70. ISOLATORS TO CONNECT TO NEW ROOF SLEEPERS BY ROOFING CONTRACTOR.
- FAN TO BE HUNG FROM OPEN WEB STEEL JOISTS ON SPRING ISOLATORS.
- INTERLOCK WITH ONE (1) NEW MOTORIZED DAMPER FOR MAKE UP AIR IN ELECTRICAL ROOM.

GAS DOMESTIC HOT WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	RECOVERY (LHR @ 56C RISE)	CAPACITY (L)	GAS INLET (kW)	ELECTRICAL (V/PHz)	REMARKS
DHWH-1	ELEC. RM	A.O. SMITH	BTX-100	439	189	2.93	120/160	LIGHT DUTY, POWER DIRECT VENT. FULLY CONDENSING. ELECTRONIC TEMPERATURE CONTROL. PVC OR CPVC VENTS TO MEET ULC S636. INCLUDE MANUFACTURER SUPPLIED CONDENSATE ACID NEUTRALIZER.

EXPANSION TANK SCHEDULE

TAG	LOCATION	SYSTEM	MANUFACTURER	MODEL	CAPACITY (L)	ACCEPTANCE (L)	WEIGHT (KG)	TANK SIZE (mm)	REMARKS
ET-1	ELECTRICAL ROOM	DOMESTIC HOT WATER	WATTS	PLT-5	8		3.8	2.5	2000

RECIRCULATION PUMP SCHEDULE

TAG	LOCATION	SYSTEM	MANUFACTURER	MODEL	FLOW (L/s)	PUMP HEAD (m)	POWER (kW)	ELECTRICAL (V/PHz)	REMARKS
P-1	ELEC RM	DHWR	XYLEM	ECOCIRC 20-18	0.19	5	0.07	120/160	CONTROLS TO INCLUDE NIGHT MODE. PUMP TO BE CONTROLLED BY AQUASTAT.

ELECTRIC HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING CAPACITY (kW)	ELECTRICAL (V/PHz)	REMARKS
EBH-1	OUELLET	OFM1502	1.5	120/160	SUPPLIED BY MECHANICAL DIVISION. INSTALLED BY ELECTRICAL DIVISION. INTEGRAL THERMOSTAT
EBH-2	OUELLET	OFM1502	1.5	120/160	SUPPLIED BY MECHANICAL DIVISION. INSTALLED BY ELECTRICAL DIVISION. INTERLOCK WITH BYPASS TERMINAL UNIT WALL THERMOSTAT. INCLUDE FOR ALL ASSOCIATED CONTRACTORS, INTERLOCKS, ETC.
EBH-3	OUELLET	OFM1252	1.3	120/160	SUPPLIED BY MECHANICAL DIVISION. INSTALLED BY ELECTRICAL DIVISION. INTERLOCK WITH BYPASS TERMINAL UNIT WALL THERMOSTAT. INCLUDE FOR ALL ASSOCIATED CONTRACTORS, INTERLOCKS, ETC.
FFH-1	OUELLET	OAC04000	3	208/160	SUPPLIED BY MECHANICAL DIVISION. INSTALLED BY ELECTRICAL DIVISION. INTEGRAL THERMOSTAT

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	ELECTRICAL (V/PHz)	AIRFLOW (L/s)	HEATING CAPACITY (kW)	HP	REMARKS
UH-1	OUELLET	OASU10038AM	CEILING HUNG ELECTRIC HEATER	208/360	330	10	1/30	SUPPLIED BY MECHANICAL DIVISION. INSTALLED BY ELECTRICAL DIVISION. WALL MOUNTED THERMOSTAT.

GAS FIRED RADIANT TUBE HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	LENGTH (M)	TYPE	ELECTRICAL (V/PHz)	GAS INPUT (kW)	GAS CONNECTION (NPS)	REMARKS
TH-1	SCHWANK	IQ 80-20	6.5	CEILING HUNG, TWO-STAGE HEATER	120/160	23.4	1/2	STRAIGHT TUBE TYPE. WALL MOUNTED INFRASAVE TRU-TEMP (24V) SET BACK THERMOSTAT.
TH-2	SCHWANK	P-40U	3.1	CEILING HUNG, TWO-STAGE HEATER	120/161	11.7	1/2	U-TUBE TYPE. WALL MOUNTED INFRASAVE TRU-TEMP (24V) SET BACK THERMOSTAT.

BOTTLE FILLING STATION SCHEDULE

TAG	MANUFACTURER	MODEL	VALVE	TRAP	REMARKS
BF-1	MURDOCK MFG	BF2S	MCGUIRE LFHST01	MCGUIRE 8088C	INCLUDE MANUFACTURER SUPPLIED CARRIER.

EMERGENCY EYE WASH SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	REMARKS
EEW-1	GUARDIAN	G1750	EMERGENCY EQUIPMENT	WALL	COMPLETE WITH LAWLER THERMOSTATIC MIXING VALVE 911EF. EXTEND DRAIN DOWN FROM BOTTOM OF BASIN AND TERMINATE OPEN ENDED ABOVE GARAGE FLOOR.

TRAP SEAL PRIMER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	REMARKS
TSP	PRECISION PLUMBING PRODUCTS	PTS-4	ELECTRONIC	SURFACE MOUNT	TO BE INSTALLED IN MECHANICAL ROOM OR SERVICE SPACE ONLY. COORDINATE EXACT LOCATION ON SITE WITH ELECTRICAL TRADE.

SINK SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	SIZE (mm)	TRIM	SUPPLIES	DRAIN	TRAP	SUPPORT	REMARKS
L-1	LAVATORY	AMERICAN STANDARD	9494001.020	533x445x165	SLOAN EFX-200	MCGUIRE LFBV170	MCGUIRE 155A	MCGUIRE 8872C	COUNTER MOUNT	INCLUDE LOW VOLTAGE TRANSFORMER AND LAWLER MIXING VALVE 570-86820
L-2	LAVATORY	AMERICAN STANDARD	355012.020	540x464	SLOAN EFX-200	MCGUIRE LFBV170	MCGUIRE 155A	MCGUIRE PW2125WC	WATTS WCA411-CA-481	INCLUDE LOW VOLTAGE TRANSFORMER AND LAWLER MIXING VALVE 570-86820
KS-1	COUNTER SINK	FRANKE COMMERCIAL	LBS6808P-1-3	508x521x203	CHICAGO FAUCETS 431-ABCP	MCGUIRE LFBV170		MCGUIRE 8812C	COUNTER MOUNT	
HS-1	HAND WASH BASIN	FRANKE COMMERCIAL	WHB1617-316-3-3	419x432x248	CHICAGO FAUCETS 895-317GN2FCAB	MCGUIRE LFBV170		MCGUIRE 8872C	WALL HUNG	PROVIDE WALL CARRIER
MS-1	SERVICE SINK	STERN WILLIAMS	SB-500-BP-T-35-T-41	305	CHICAGO FAUCETS 897-RCF					INCLUDE 30" HOSE AND WALL BRACKET

SHOWER SCHEDULE

TAG	TRIM	SHOWER HEAD	SHOWER DRAIN	REMARKS
SH-1	CHICAGO FAUCETS SH-PB1-00-000	CHICAGO FAUCETS 621-LCP	NPS 2 WITH 100MM SQUARE CHROME PLATED BRASS ADJUSTABLE STRAINER ASSEMBLY	TILED SHOWER BASE AND WALLS BY ARCHITECTURAL DIVISION.
SH-2	CHICAGO FAUCETS SH-PB1-00-000	CHICAGO FAUCETS 624-LCP	NPS 2 WITH 100MM SQUARE CHROME PLATED BRASS ADJUSTABLE STRAINER ASSEMBLY	TILED SHOWER BASE AND WALLS BY ARCHITECTURAL DIVISION. CHICAGO FAUCETS SLIDE BAR 9800-036CP. HAND SHOWER 624-LC. WALL SUPPLY, HOSE, AND VACUUM BREAKER.

WATER CLOSET SCHEDULE

TAG	MANUFACTURER	MODEL	FLUSHING ACTION	SEAT	ACCESSORIES
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AIR COMPRESSOR SCHEDULE												
TAG	MANUFACTURER	MODEL	TYPE	CAPACITY (L)	HP	DISPLACEMENT (L/s)	DELIVERY (L/s @ 1034 kPa)	MAX PRESSURE (kPa)	ELECTRICAL POWER SUPPLY (V/PH/Hz)	FLA (A)	WEIGHT (KG)	REMARKS
EQ-17A	DV SYSTEMS	VAT-5063-41MS	PISTON	454	10	20	17	1034	200/3/60	31	408	PROVIDE AIR COMPRESSOR WITH ASSOCIATED STARTER, PRE-POST FILTER, PIPING, VALVES, PRESSURE SWITCHES, SAFETY VALVES, ETC. FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT ON NEOPRENE VIBRATION PADS OVER 100mm CONCRETE HOUSEKEEPING PADS.
			AIR DRYER									
TAG	MODEL	TYPE	FLOW (L/s)	MAX WORKING PRESSURE (kPa)	REFRIGERANT	ELECTRICAL (V/PH/Hz)	WEIGHT (KG)					
EQ-17B	DVH0351FP00	REFRIGERATED	16.5	1600	R-407c	115/1/60	48					

PNEUMATIC PUMP SCHEDULE													
TAG	SYSTEM	MANUFACTURER	MODEL	TYPE	MAX FLOW (L/m)	MAX FLUID WORKING PRESSURE (MPa)	AIR OPERATION RANGE (kPa)	MAX PUMP SPEED (CPM)	AIR INLET SIZE	FLUID INLET SIZE	FLUID OUTLET SIZE	WEIGHT (KG)	REMARKS
EQ-18B	ENGINE OIL SUPPLY	GRACO	FIRE-BALL 425 - 238108	AIR MOTOR	65	7.6	280-1200	78	NPT 1/2	NPT 1-1/2	NPT 3/4	15.9	1.2
EQ-20B	WATSE OIL	GRACO	HUSKY 1050 ADDD - 647731	PNEUMATIC DOUBLE DIAPHRAGM	189	0.69	140-690	275	NPT 1/2	NPT 1	NPT 1	10.5	3
EQ-21B	WASHER FLUID SUPPLY	GRACO	HUSKY 1050 ADDD - 647016	PNEUMATIC DOUBLE DIAPHRAGM	189	0.69	140-690	275	NPT 1/2	NPT 1	NPT 1	10.5	4

REMARKS
1. 6:1 FLUID PRESSURE RATIO
2. INCLUDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERATIONAL INSTALLATION, INCLUDING: AIR FILTER, REGULATOR, LUBRICATOR (#217072), AIR LINET HOSE (#218093), FLUID OUTLET CONNECTION HOSE, SUCTION CONNECTION HOSE, RUNAWAY PROTECTION VALVE (#224040), BLEED TYPE AIR SHUT OFF VALVE (#110225), LOW LEVEL CUT OFF (#203688).
3. INCLUDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERATIONAL INSTALLATION, INCLUDING: #24E166 WALL MOUNT EVACUATION PUMP PACKAGE, .SCO 2/2 SERIES 8210 2-WAY, GENERAL SERVICE SOLENOID VALVE, KTECH INDUSTRIAL PRODUCTS INC. FS701SFE-2 AND CP1100/PS 02H-2-4R.
4. INCLUDE ALL REQUIRED ACCESSORIES FOR A COMPLETE AND OPERATIONAL INSTALLATION, INCLUDING: #244680 WINDSHIELD TRANSFER PUMP PACKAGE.

PRESSURE WASHER SCHEDULE											
TAG	MANUFACTURER	MODEL	TYPE	FLOW (L/s @ 13.1 MPa)	ELECTRICAL (V/PH/Hz)	HEATING TAG	HEATING MODEL	HEATING TYPE	HEATING CAPACITY (kW)	ELECTRICAL (V/PH/Hz)	REMARKS
EQ-19A	PSC	S1218ESVFD3-575	ELECTRIC	12	575/3/60	EQ-19B	K2472-575-NMC	ELECTRIC - DUAL COIL	72	575/3/60	PROVIDE PRESSURE WASHER PUMP AND HEATER COMPLETE WITH ASSOCIATED VFD, FLOAT SWITCHES, PRESSURE REGULATOR, PRESSURE GAUGE, BELT GUARD, TANK STAND, FEED TANK, DUAL ELECTRIC COIL HEAT EXCHANGER, SAFETY, RELIEF VALVES, TEMPERATURE CONTROL, ETC. FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT ON NEOPRENE VIBRATION PADS OVER 100MM CONCRETE HOUSEKEEPING PADS.

CENTRAL VACUUM SCHEDULE										
TAG	MANUFACTURER	MODEL	HP	MOTOR (V)	FLA (A)	WEIGHT (KG)	REMARKS			
EQ-22A	EUROVAC	EI 18BS	10	230	25	305	PROVIDE CENTRAL VACUUM SYSTEM COMPLETE WITH ASSOCIATED AIR FILTER, DEBRIS COLLECTOR, CONTROL PANEL, VACUUM PIPING, INLINE WET SEPARATOR, VIBRATION ISOLATION, ETC. FOR A COMPLETE INSTALLATION. CENTRAL VACUUM SYSTEM TO BE COSTED IN TENDER AS SEPARATE PRICE, INCLUDING BLOWER, FILTER, PIPING, REELS, AND ALL ASSOCIATED EQUIPMENT.			

FLUID TANK SCHEDULE										
TAG	SYSTEM	MANUFACTURER	CAPACITY (L)	WEIGHT (KG)	DIMENSIONS (mm)			REMARKS		
					L	W	H			
EQ-18A	ENGINE OIL SUPPLY	WALECO	1500		2134	965	965	TANK SHALL MEET STANDARD ULC S602-14, COMPLETE WITH EMERGENCY VENT, VACUUM MONITORING GAUGE AND VACUUM SWITCH, LIFT LUG, ONE 75MM PORT AND SEVEN 50MM PORTS.		
EQ-20A	WASTE OIL	WALECO	2500		2032	1270	1270	TANK SHALL MEET STANDARD ULC S652 16, COMPLETE WITH ASSOCIATED SCREENED FILL BOX AND EVACUATION TUBE, HASSCO EMERGENCY VENT, VACUUM GAUGE, OVERFILL PROTECTION DEVICE, LIQUID LEVEL GAUGE, FIVE 50MM PORTS, DIRECT READING GAUGE.		
EQ-21A	WASHER FLUID SUPPLY		200					PROVIDE POLY TANK.		

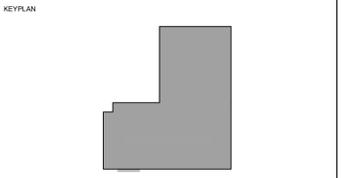
GARAGE SERVICES REEL SCHEDULE							
TAG	SERVICE	TYPE	REEL	HOSE	POINT OF USE	REMARKS	
NPC	NPC - NON POTABLE COLD WATER	REEL WITH DISPENSER	GRACO XDX-20	NPS 1/2 @ 15M	GRACO 180685	1	
EQ-16C	VEE - VEHICLE EXHAUST EXTRACTION	REEL WITH ADAPTER	MONOXIVENT SERIES 9000 W	1250 @ 12M	TCA-5 ADAPTER		
EQ-17C	A - COMPRESSED AIR	REEL WITH CONNECTOR	GRACO XDX-20	NPS 1/2 @ 15M	GRACO 218549 WITH QUICK...		
EQ-18C	EOS - ENGINE OIL SUPPLY	REEL WITH DISPENSER	GRACO XDX-20	NPS 1/2 @ 15M	GRACO 25C903		
EQ-19C	HPW - HOT PRESSURIZED WATER	REEL WITH WAND	GRACO XDX-30	NPS 1/2 @ 15M	SUTTNER 3D-009		
EQ-21C	WWF - WASHER FLUID	REEL WITH DISPENSER	GRACO XDX-20	NPS 1/2 @ 15M	GRACO SDM-8		
EQ-22C	VAC - CENTRAL VACUUM	REEL WITH FITTINGS	EUROVAC 30-31A	NPS 1-1/2 @ 15M	DETAILING KIT	2,3	

REMARKS
1. INCLUDE TWO (2) WYE CONNECTION FITTINGS SUPPLIED BY VEHICLE EXHAUST MANUFACTURER FOR USE ON DUAL EXHAUST VEHICLES.
2. INCLUDE "1-1/2" VEHICLE CLEANING PACKAGE" SUPPLIED BY CENTRAL VACUUM MANUFACTURER INCLUDING UTILITY HOSE, CLAW TOOL, UPHOLSTERY TOOL CREVICE TOOL, DUST BRUSH, ONE SET PER REEL.
3. CENTRAL VACUUM SYSTEM TO BE COSTED IN TENDER AS SEPARATE PRICE, INCLUDING BLOWER FILTER PIPING REELS, AND ALL ASSOCIATED EQUIPMENT.

GENERAL NOTES
- ALL REELS SHALL BE SPRING RETURN TYPE UNLESS OTHERWISE NOTED.
- PROVIDE ISOLATION VALVES IN ACCESSIBLE LOCATION UPSTREAM OF EACH REEL.
- ALL REELS TO BE OVERHEAD MOUNT. INCLUDE ALL REQUIRED MANUFACTURER MOUNTING CHANNELS AND SUPPORTS TO MOUNT REELS FROM EXISTING OPEN WEB STEEL JOISTS.
- REFER TO SECTION 22 70 05 (R0) VEHICLE SERVICE PIPING, VALVES, AND SPECIALTIES AND SECTION 22 70 05 (R0) LUBRICATING AND SERVICE EQUIPMENT FOR ADDITIONAL REQUIREMENTS.
- COORINATE OPTIONAL COLOUR SELECTION WITH OWNER.
- INCLUDE ALL ASSOCIATED PIPING CONNECTORS, HOSE INLET KITS, HARDWARE, ETC. FOR A COMPLETE INSTALLATION.
- INSTALL ALL EQUIPMENT AS PER MANUFACTURER INSTALLATION RECOMMENDATIONS.

EQUIPMENT SCHEDULE (SHOWN ON PLAN)												
TAG	NAME	MANUFACTURER	OWNER SUPPLIED	MODEL	DESCRIPTION	DIMENSIONS	MECH REQUIREMENTS	ELEC REQUIREMENTS	QTY	COMMENTS		
EQ-1	TIRE LIFT	ATLAS			Relocated			No Electrical Connection Required	2			
EQ-2	1250 WHEEL BALANCER	COATS		1250SD	New			20A/220V/1Ph Receptacle connection	1	Preferred model Hunter. This item needs to be replaced. Tech's are currently working on a generic specification		
EQ-3	HYDRAULIC PRESS	DAKE			New			Need specific model. Available in different voltages and horsepower	1			
EQ-4	FLAMMABLE STORAGE CABINET				46 GAL, 2 DOOR, YELLOW	43" W x 65" H x 18" D		No Electrical Connection Required	2			
EQ-5	SKATE SYSTEM	GOJAK						No Electrical Connection Required	1			
EQ-6	TIRE MACHINE	HUNTER		TCX57	Relocated			0.76kW, 208-230VAC, 1Ph	0			
EQ-7	PLASMA CUTTER	HYPER THERM			Relocated			Need specific model. Available in different voltages and horsepower. Power requirements 220V, 50 amp service	0	located on fabrication bench		
EQ-8	CHOP SAW	MAKITA			Relocated			15A/120V/1Ph Receptacle connection	0	Power requirements MUST be 20 Amp service		
EQ-9	MIG WELDER	MILLER			Relocated			Need specific model. Available in different voltages and horsepower	0	located on bench. Power requirements MUST be 220 V, 50 Amp service. 3 Outlets to be spaced out in the shop 1 outlet to service 2 bays		
EQ-10	A/C R-1234YF MACHINE	ROBINAIR			IN OFFICE NEAR SHELVING			Operating voltage - 103-127V, 60Hz AC	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central.		
EQ-11	A/R A/C VACUUM PUMP & SCALE	ROBINAIR			IN OFFICE NEAR SHELVING			Need specific model. Available in different voltages and horsepower	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central Fleet		
EQ-12	A/R COOL TECH 34788 A/C MACHINE	ROBINAIR			IN OFFICE NEAR SHELVING			Nominal Voltage: Model 34788: 115V, 60 Hz Model 34788-1: 230V, 50/60 Hz	0	Robinair integrated with Bosch Automotive - this is a mobile unit and will be stored in the fleet warehouse - taking existing from Central Fleet		
EQ-13A	SANDBLASTING UNIT		X		Relocated	5'x6'	COMPRESSED AIR	1/2hp, 8.4A @120V/1Ph 15A Receptacle	1	COORDIANTE COMPRESSED AIR CONNECTION TYPE AND SIZING WITH EXISTING OWNER EQUIPMENT. EQUIPMENT EQ-13A/B TO BE INSTALLED AND FULLY ASSEMBLED BY MECHANICAL CONTRACTOR.		
EQ-13B	DUST COLLECTOR		X						1			
EQ-14	WORKBENCH					12W x 48 3/8"D x 15"D		Need specific requirements. Assume 15A/120V/1Ph Receptacle connection	7	cut sheet provided - must be generic product. Power requirements for each bench is 2 outlets per bench - 120 V, 230 amp service		
EQ-15	WORKBENCH UPPER CABINET							Does this require lighting? Yes				
EQ-16	VEHICLE EXHAUST EXTRACTION	MONOXIVENT			EXHAUST FAN EF-4 COMPLETE WITH DUCT DISTRIBUTION TO HOSE REELS.			575/3/60, 2HP		REFER TO MECHANICAL EXHAUST FAN SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.		
EQ-17A	AIR COMPRESSOR	DV SYSTEMS			PISTON TYPE AIR COMPRESSOR COMPLETE WITH PIPING DISTRIBUTION TO HOSE REELS.			208V/3P/60HZ		REFER TO MECHANICAL AIR COMPRESSOR SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.		
EQ-17B	AIR DRYER	DV SYSTEMS			AIR DRYER AND FILTRATION PACKAGE FOR AIR COMPRESSOR			120V/1P/60HZ		REFER TO MECHANICAL AIR COMPRESSOR SCHEDULE. REFER TO MECHANICAL GARAGE ACCESSORIES SCHEDULE.		
EQ-18A	ENGINE OIL SUPPLY TANK	WALECO			1,500 LITRE DOUBLE WALL OIL TANK			44 SCFM COMPRESSED AIR, NPS 1/2		REFER TO MECHANICAL FLUID TANK SCHEDULE.		
EQ-18B	ENGINE OIL SUPPLY PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.					REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.		
EQ-19A	PRESSURE WASHER PUMP	PSC			30 HP 12 GPM PUMP COMPLETE WITH VFD, AND PIPE DISTRIBUTION TO HOSE REELS.			NPS 1 NON POTABLE COLD WATER	575/3/60, 20A	REFER TO MECHANICAL PRESSURE WASHER SCHEDULE		
EQ-19B	PRESSURE WASHER...	PSC			72 KW ELECTRIC HEAT EXCHANGER				575/3/60, 72A	REFER TO MECHANICAL PRESSURE WASHER SCHEDULE		
EQ-20A	ENGINE OIL WASTE TANK	HASSCO			1100 LITRE DOUBEL WALL WASTE OIL TANK					REFER TO MECHANICAL FLUID TANK SCHEDULE.		
EQ-20B	ENGINE OIL WASTE PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPING TO WASTE OIL TANK.			40 SCFM COMPRESSED AIR, NPS 1/2		REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.		
EQ-21A	WASHER FLUID TANK				200 LITRE WASHER FLUID TANK					REFER TO MECHANICAL FLUID TANK SCHEDULE.		
EQ-21B	WASHER FLUID PUMP	GRACO			PNEUMATIC FLUID PUMP COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.			40 SCFM COMPRESSED AIR, NPS 1/2		REFER TO MECHANICAL PNEUMATIC PUMP SCHEDULE.		
EQ-22	CENTRAL VACUUM	EUROVAC			10 HP BLOWER COMPLETE WITH PIPE DISTRIBUTION TO HOSE REELS.			208V/3P 10 HP		REFER TO MECHANICAL CENTRAL VACUUM SCHEDULE. THIS SYSTEM IN ITS ENTIRETY TO BE INCLUDED IN TENDER AS A SEPARATE PRICE.		
EQ-23	MOTORCYCLE HOIST					hoist 4' 5" x 7' 3"...						
EQ-24	FABRICATION WORKBENCH - WELDER AND PRESS					12' x 3'				PLASMA CUTTER, MIG WELDER, CHOP SAW LOCATED ON BENCH		

EQUIPMENT SCHEDULE (ITEMS NOT SHOWN ON PLAN)												
TAG	NAME	MANUFACTURER	MODEL	DESCRIPTION	DIMENSIONS	MECH REQUIREMENTS	ELEC REQUIREMENTS	QTY	COMMENTS			
EQ-25	BATTERY BOOSTER PACKS			Relocated			15A/120V/1Ph Receptacle connection	4	No space requirement, wall mounted.			
EQ-26	BATTERY CHARGER			Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, sitting on bench			
EQ-27	STRUT COMPRESSOR	BRANICK		Relocated			No Electrical Connection Required	2 (0)	No space requirement, wall mounted.			
EQ-28	BREAK OUT BOXES	CHRYSLER & FORD		Relocated			No Electrical Connection Required	0	No space requirement			
EQ-29	COOLING SYSTEM TESTER			Relocated			No Electrical Connection Required	0	No space requirement			
EQ-30	TPS SCANNER			Relocated				0	No space requirement			
EQ-31	PARTS CLEANER			Relocated				0	No space requirement			
EQ-32	SHOP VAC CONTRACTOR	SHOP VAC		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, mobile			
EQ-33	BREAK OUT BOX	SNAP ON		Relocated			Operating Voltage Input: 7.0-30.0 VDC Maximum Load: 3A Output	0	No space requirement			
EQ-34	FLOOR JACK	SNAP ON		Relocated			No Electrical Connection Required	0	No space requirement			
EQ-35	SCANNER	SNAP ON		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement			
EQ-36	SAWZALL	MILWAUKEE		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement, cordless units.			
EQ-37	MOBILE TOOL BOXES	MILWAUKEE		Relocated			No Electrical Connection Required	0	No space requirement			
EQ-38	MINUTEMAN PLUS AVR TESTER	OTC		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement			
EQ-39	BALL JOINT PRESS	OTC		Relocated			No Electrical Connection Required	0	No space requirement			
EQ-40	BATTERY CHARGING STATION	PRO LOGIX		Relocated			15A/120V/1Ph Receptacle connection	0	No space requirement			



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025-08-22
2	ISSUED FOR BID REVIEW	2025-09-05
3	ISSUED FOR BID AND PERMIT	2025-12-03

CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES
BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

TITLE
GARAGE EQUIPMENT
SCHEDULES

WALTERFEDY
TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON
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SCALE:	AS NOTED	SHEET NO.:	
DATE:	04/12/22		M902
PROJECT NO.:	2024-1007-10		
DRAWN BY:	DS		
CHECKED BY:	JC		

GENERAL DRAWING NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. THIS DIVISION MUST COORDINATE SCOPE OF WORK WITH ALL CONTRACT DRAWINGS AND COORDINATE INSTALLATIONS WITH OTHER DIVISIONS TO AVOID CONFLICT AND DELAYS.
2. REVIEW ALL CONTRACT DRAWINGS AND VISIT THE SITE PRIOR TO SUBMITTING THIS BID TO VERIFY ALL INSTALLATIONS AND EXISTING FIELD CONDITIONS.
3. THESE DRAWINGS ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS WHICH ACCOMPANY THEM.
4. COORDINATE ALL WORK WITH OTHER DIVISIONS FOR AVAILABLE SPACE.
5. COOPERATE WITH OTHER DIVISIONS ON SITE TO RESOLVE INTERFERENCES TO SATISFACTORILY COMPLETE THE PROJECT.

GENERAL RENOVATION NOTES:

- 1. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN AS PRESENTLY INSTALLED, UNLESS OTHERWISE NOTED.
2. ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
3. DEVICES CIRCUITED FROM EXISTING PANEL MAY NOT REFLECT THE ACTUAL CIRCUIT NUMBERS BUT ARE SHOWN FOR CONFIGURATION ONLY.
4. REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).
5. WHEN UTILIZING EXISTING BRANCH CIRCUIT, PROVIDE NEW BRANCH CIRCUIT WIRING AS REQUIRED MEETING THE ONTARIO ELECTRICAL SAFETY CODE LATEST EDITION REQUIREMENTS.
6. EXISTING CONDUIT MADE EMPTY BY THE REMOVAL OF EQUIPMENT MAY BE REUSED TO FEED NEW EQUIPMENT AND OR DEVICES.
7. ALL CEILING MOUNTED DEVICES NOTED AS RELOCATED SHALL BE CLEANED, REPLACED AND RECONNECTED ON NEW CEILING AFTER CEILING TILES HAVE BEEN REPLACED WITH NEW TILES.
8. ALL WALL MOUNTED DEVICES NOTED AS RELOCATED SHALL BE CLEANED, REPLACED AND RECONNECTED IN NEW LOCATION.
9. REFER TO ARCHITECTURAL, REFLECTED CEILING PLAN AND DETAILS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM.
10. ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES WITH OWNER SUPPLIED EQUIPMENT, ARCHITECTURAL ELEVATIONS AND DETAILS.
11. SCAN FLOOR SLABS AND SUBMIT RESULTS TO CONSULTANT FOR REVIEW AND APPROVAL, COMPLETE WITH PROPOSED LOCATIONS OF NEW PENETRATIONS, PRIOR TO ANY CUTTING.
12. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE NEUTRALS TO ALL CIRCUITS.
13. ELECTRICAL CONTRACTOR TO COORDINATE WITH OWNER AND CHUBB SECURITY FOR REMOVAL AND RELOCATION OF FIRE DETECTORS AND SECURITY DEVICES.

LIGHTING GENERAL NOTES:

- 1. ALL LIGHTING FIXTURES SHALL BE C/W 0-10V DIMMING DRIVERS UNLESS OTHERWISE NOTED.
2. INTERIOR LIGHTING IS TO BE CONTROLLED VIA LINE VOLTAGE AND LOW VOLTAGE SWITCHING/DIMMING, OCCUPANCY, AND PHOTO ELECTRIC SENSORS.
3. IN ROOMS WHERE LIGHTING FIXTURES ARE CONTROLLED THROUGH CEILING MOUNTED OCCUPANCY SENSORS, PROVIDE MANUAL OFF SWITCH CONTROL.
4. ALL LOW VOLTAGE SWITCHES/DIMMERS SHALL FUNCTION AS OVERRIDE SWITCHES WHEN SYSTEM IS ON UNOCCUPIED MODE.
5. PHOTO ELECTRIC SENSORS SHOWN IN THE OPEN OFFICE AREAS SHALL BE CONTROLLED VIA LOW VOLTAGE SWITCHING/DIMMING, OCCUPANCY AND PHOTO ELECTRIC SENSORS.
6. MOUNT POWER SUPPLIES AND AUXILIARY CONTROLS ON WALL, ABOVE THE T-BAR CEILING, FOR LOW VOLTAGE CONTROL.
7. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL CIRCUIT(S), CONNECTIONS, CONTROLS FROM PHOTO SENSORS AND OCCUPANCY SENSORS FOR A COMPLETE OPERATING SYSTEM AS REQUIRED.
8. ALLOW FOR 120V CIRCUIT(S) TO FEED OCCUPANCY SENSOR POWER SUPPLIES AS REQUIRED FROM NEAREST 120V PANEL.
9. OCCUPANCY SENSOR LOCATIONS MUST BE COORDINATED ON SITE WITH ALL SERVICES TO ENSURE A CLEAR VIEW OF THE ENTRANCE DOOR(S) AND THE OVERALL SPACE.
10. WHERE OCCUPANCY SENSORS ARE MOUNTED IN A ROOM WITH MORE THAN ONE (1) SWITCH OR CIRCUIT, SENSORS SHALL OPERATE ALL FIXTURES OR CIRCUITS EITHER THROUGH MULTI-CIRCUIT SENSOR OR MULTIPLE SENSORS.
11. MOUNT CORRIDOR CEILING OCCUPANCY SENSOR AS DIRECTED BY MANUFACTURER AND ORIENT FOR OPTIMAL COVERAGE.
12. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS.
13. THIS CONTRACTOR SHALL ALLOW FOR ON SITE ADJUSTMENTS OF TIME DELAY, AMING AND SENSITIVITY OF ALL SENSORS, BASED ON USER'S REQUIREMENT.
14. COORDINATE LIGHTING CONTROL WITH BAS CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
15. EMERGENCY BATTERIES AND COMBO UNITS SHALL BE CONNECTED TO LINE SIDE OF THE NORMAL LIGHTING CIRCUIT (UN-SWITCHED) IN THE AREA COVERED BY THE EMERGENCY LIGHTING.
16. REMOTE EMERGENCY HEADS TO BE WIRED FROM NEAREST BATTERY UNIT LOCATED WITHIN THE SAME ROOM/AREA.
17. EMERGENCY LIGHTING SHALL BE TESTED FOR A MINIMUM 30 MINUTES.
18. ALL SWITCHES IN PUBLIC SPACES ELECTRICAL CONTRACTOR TO ALLOW FOR AN ADDITIONAL 3 FIXTURES TO BE CONNECTED TO THE BRANCH LIGHTING CIRCUIT IN THE MECHANICAL ROOM ONCE MECHANICAL EQUIPMENT AND DUCTWORK IS INSTALLED.
19. PROVIDE LAMICOID TAG IDENTIFICATION (CIRCUIT AND RELAY NUMBER) ON ALL THE SWITCHES. REFER TO DETAIL SHEET.
20. INSTALL ALL CONDUIT TIGHT TO THE CEILING DECK, ABOVE MECHANICAL DUCTS, IN ORDER NOT TO DETER INSTALLATION OF LIGHTING FIXTURES AND DIFFUSERS.
21. ALL LIGHTING FIXTURES SHALL BE SUPPORTED BY APPROVED CHAINS WHICH SHALL ALLOW THE FIXTURES TO BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM LAY-IN FIXTURE SHALL BE SUPPORTED WITH 2 CHAINS TO THE ROOF OR DECK ABOVE.
22. ALL SWITCHES/SENSORS SHALL BE FROM ONE MANUFACTURER.
23. ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODING ON ALL LIGHTING SYSTEMS, BOXES AND CONDUITS AS REQUIRED BY HOSPITAL STANDARDS (PROVIDED DURING CONSTRUCTION).
24. ALL SWITCHES C/W GROUND PIN MUST BE GROUNDED.
25. PROVIDE YELLOW DOT ON CEILING TILE FOR FIXTURE ID WITH RELAY CONTROL.
26. FUNCTION AS TIMED OVERRIDE SWITCHES WHEN LIGHTS ARE MANUALLY SWITCHED ON. OCCUPANCY SENSORS WILL TURN LIGHTS OFF AFTER 30MIN OF NO MOTIONS.
27. PROVIDE DUAL RELAY SWITCH OCCUPANCY SENSORS AS INDICATED ON PLANS. PROVIDE WIRING AND SETTING UP THAT UPON OCCUPANCY, ONLY 50% OF THE ROOM LIGHTING SHALL TURN ON AUTOMATICALLY. LOWER LEVEL BALLAST WILL ACTIVATE AND TURN ON THE ROOM LIGHTING NOT MORE THAN 50% OF THE POWER. FULL LIGHTING (100%) IN THE ROOM SHALL BE TURNED ON MANUALLY AFTER PRE-SET TIME, IF NO OCCUPANCY IS DETECTED, BOTH LEVELS OF LIGHTS SHALL TURN OFF.

LIGHTING DEMOLITION NOTES:

- 1. CONTRACTOR TO ENSURE ALL EXIT SIGNAGE AND EMERGENCY LIGHTING REMAINS IN OPERATION DURING DEMOLITION AND BE ADEQUATELY SUPPORTED WHERE LOCATED ON A WALL OR CEILING BEING REMOVED.
2. LIGHTING FIXTURE WITH THE DESIGNATION "EX" ARE EXISTING FIXTURES OF UNKNOWN SPECIFICATION.
3. REMOVE AND MAKE SAFE EXISTING LIGHTING, DEVICES, ETC. AS WELL AS CONDUIT AND BRANCH CIRCUIT WIRING FEEDING DEVICES NOTED TO BE REMOVED.
4. REMOVE AND MAKE SAFE EXISTING LIGHTING, MAINTAIN EXISTING CONDUIT AND BRANCH CIRCUIT WIRING FEEDING LIGHTING NOTED TO BE REMOVED.
5. ALL LIGHT FIXTURES DESIGNATED TO BE RELOCATED SHALL BE DISCONNECTED, REMOVED AND PROPERLY STORED.
6. ALL EXISTING SWITCHES NOTED AS EXISTING TO BE RELOCATED SHALL BE REPLACED WITH NEW DEVICES.
7. ALL EXISTING LIGHTING CONTROLS TO BE REWORKED AS INDICATED ON NEW PLANS.
8. EXISTING DEVICES TO REMAIN SHALL BE RE-CIRCUITED AS NOTED ON NEW PANEL SCHEDULES AND PLANS.
9. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF LIGHT STANDARDS AND BASES SHALL BE INFILLED BY THE GENERAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL COSTS TO REMOVE & DISPOSE OF ANY FIXTURES WITH PCB BALLASTS TO COMPLY WITH ENVIRONMENT CANADA'S IDENTIFICATION OF FLUORESCENT LAMP BALLAST CONTAINING PCB'S (EPCS/C22 August 1991) AND ENVIRONMENT CANADA'S HANDBOOK ON PCB'S IN ELECTRICAL EQUIPMENT APRIL 1989.

GENERAL POWER NOTES:

- 1. MAINTAIN MIN. 3'-4" (1000mm) CLEARANCE FROM ALL ELECTRICAL DISTRIBUTION EQUIPMENT.
2. GROUNDING OF ALL EQUIPMENT TO BE TO THE ELECTRICAL SAFETY AUTHORITY INSPECTION APPROVAL AND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE - GROUNDING AND BONDING REQUIREMENTS.
3. PROVIDE GROUNDING BAR FOR GROUNDING AND BONDING CONNECTIONS OF EQUIPMENT.
4. ALL PANELS SHALL BE COMPLETE WITH PANEL DOORS, AND LOCKS KEVED ALIKE.
5. UNLESS OTHERWISE NOTED, ALL NEW DEVICES AND FACEPLATES SUPPLIED IN OFFICE AREA SHALL BE WHITE DECORA WITH MATCHING COVER PLATE.
6. EACH RECEPTACLE SHALL BEAR IDENTIFICATION OF THE CIRCUIT(S) CONNECTED ON ITS FACEPLATE.
7. ALL WIRING TO BE CODED WITH SHRINK WRAP TAPE SHOWING CIRCUITS ON ALL HOT AND NEUTRAL WIRING AT PANEL, OUTLETS AND ANY JUNCTION OR PULL BOXES (TYP. FOR ALL POWER, LIGHTING, OR MECHANICAL SYSTEMS).
8. WHERE CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALL, SEAL SPACE BETWEEN CONDUIT AND STRUCTURE.
9. WHEREVER CORE HOLES ARE REQUIRED THROUGH SLAB, ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF 1-2" SLEEVE FOR FUTURE AS SPARE.
10. PROVIDE 4-4" SPARE SLEEVES TO BE PROVIDED THRU ALL FIRE SEPARATIONS, BLOCK OR CONCRETE WALLS.
11. FOR COMMUNICATION OUTLETS ON WALL, PROVIDE GANGBOX, EMPTY CONDUIT WITH PULL STRING FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE.
12. ALL COMMUNICATION CABLES PROVIDED BY DATA/VOICE CONTRACTOR SHALL BE FT6 PLENUM RATED, APPROVED FOR PLENUM USE.
13. THE IT LAYOUT IS SUBJECT TO REVIEW AND APPROVE BY OWNER.
14. OUTLETS FOR ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED AT SUITABLE HEIGHT FOR EQUIPMENT BEING SERVED.
15. ELECTRICAL CONTRACTOR TO PROVIDE 8"x8"x6" JUNCTION BOX FOR CONTROL TRANSFORMERS ETC.
16. FOR THE THERMOSTAT SHOWN ON DRAWING, PROVIDE GANGBOX WITH COVERPLATE, AND 1/2" CONDUIT FROM GANGBOX TO THE ACCESSIBLE SPACE IN THE CEILING.
17. CONTRACTOR TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTURAL DRAWINGS AND DETAILS PRIOR TO ROUGH-IN.
18. ALL NEW CONDUIT INSTALLATION TO BE INSTALLED TIGHT TO THE CEILING DECK, ABOVE MECHANICAL DUCTS, IN ORDER NOT TO DETER INSTALLATION OF LIGHTING FIXTURES AND DIFFUSERS.
19. ALL POWER PULL BOXES TO BE 18"x18"x6" MINIMUM.
20. PROVIDE TEMPORARY ELECTRICAL POWER FOR THE WORK OF THE OTHER TRADES AS REQUIRED BY THE GENERAL CONTRACTOR.
21. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE NEUTRALS TO ALL CIRCUITS.
22. ELECTRICAL CONTRACTOR TO ALLOW FOR A MINIMUM OF <3> x 15A-1P CIRCUITS C/W A MINIMUM OF 50' OF CONDUIT AND WIRE FROM EACH PANEL TO ALLOW FOR UNFORESEEN CONNECTIONS DURING CONSTRUCTION.
23. MARK CEILING TILES WITH RED DOT WHERE ANY POWER SUPPLIES ARE LOCATED ABOVE CEILING.
24. ALLOW FOR ALL 120V POWER, ON ESSENTIAL SERVICE, AT ALL DOORS WITH SECURITY STRIKES OR MAG LOCKS AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM.

POWER DEMOLITION NOTES:

- 1. ALL EXISTING DEVICES IN AREA OF RENOVATIONS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
2. REMOVE AND MAKE SAFE EXISTING RECEPTACLES AND DEVICES AS WELL AS CONDUIT AND BRANCH CIRCUIT WIRING FEEDING DEVICES NOTED TO BE REMOVED.
3. EXISTING DEVICES TO REMAIN SHALL BE RE-CIRCUITED AS NOTED ON NEW PANEL SCHEDULES AND PLANS.
4. DEVICES AND EQUIPMENT IN ELECTRICAL ROOM TO REMAIN AS INSTALLED UNLESS OTHERWISE NOTED.
5. ALL EXISTING DUPLEX RECEPTACLES NOTED AS EXISTING TO BE RELOCATED SHALL BE REPLACED WITH NEW DEVICES.
6. EXISTING CONDUIT BELOW SLAB FEEDING DEVICES AND EQUIPMENT NOTED AS EXISTING TO BE REMOVED SHALL BE CUT BACK BELOW SLAB AND ABANDONED.
7. ELECTRICAL CONTRACTOR TO ALLOW FOR THE RELOCATION/REPLACEMENT OF UP TO 5 ELECTRICAL FEEDERS UP TO 3/0 IN SIZE TO ALLOW FOR INSTALL OF NEW MECHANICAL AND ARCHITECTURAL SYSTEMS.

SYSTEM GENERAL NOTES:

- 1. ALLOW FOR AN ADDITIONAL 10 DATA DROPS/TERMINATIONS DURING CONSTRUCTION.
2. THE MAXIMUM LENGTH FOR DATA CABLING IS 100 m (330 ft.) PER TIA/EIA 568-5-A. THIS CONSISTS OF 90 meters (300 ft.) OF SOLID "HORIZONTAL" CABLING BETWEEN THE PATCH PANEL AND THE WALL JACK, PLUS TWO PATCH CABLES (ONE AT EACH END) OF 5 METER EACH BETWEEN EACH JACK AND THE ATTACHED DEVICE.
ELECTRICAL CONTRACTOR TO PROVIDE PROVISIONS FOR FUTURE WIRELESS TRANSMITTERS IN CEILING SPACE AS SHOWN C/W CONDUIT AND WIRING BACK TO HUB ROOM, TYPICAL.

Table with columns for LIGHTING FIXTURES, LIGHTING DEVICES, SECURITY, SOUND, RENOVATION, ELECTRICAL LEGEND (POWER), and SINGLE LINE LEGEND. Includes symbols for recessed, surface, suspended, circular, and emergency lighting fixtures, as well as switches, sensors, and equipment tags.

ELECTRICAL DRAWING LIST table with columns for NO., DRAWING NAME, and list of drawing items including notes, legends, site plan, and layout drawings.



CLIENT LOGO
KEY PLAN

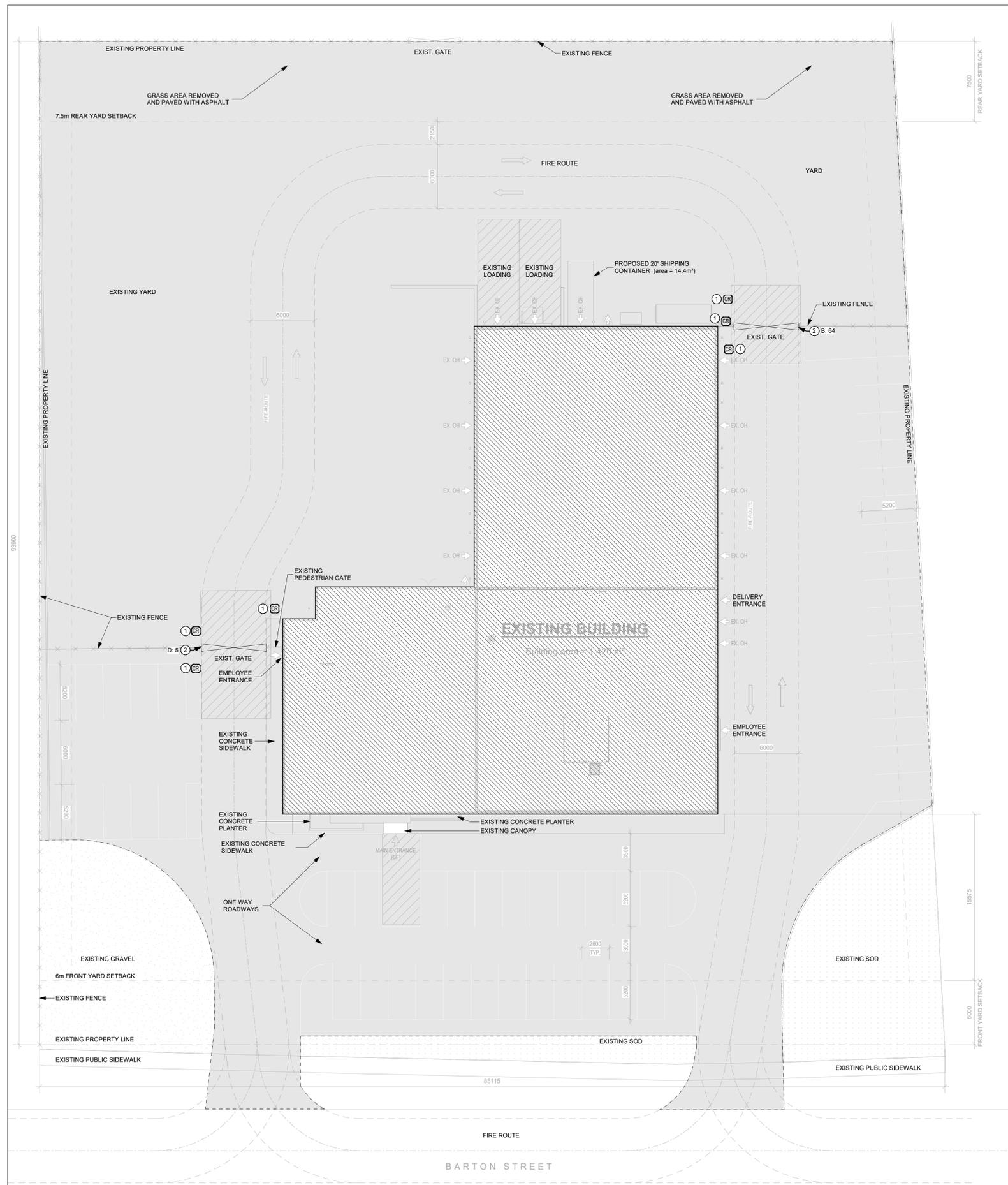
Table with columns for No., ISSUANCE, REVIEW, DATE. Contains revision history for the drawing.

CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO
PROJECT: HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E., HAMILTON, ONTARIO

ELECTRICAL NOTES, LEGENDS, AND DRAWING LIST



Table with columns for SCALE, DATE, PROJECT NO., DRAWN BY, CHECKED BY, SHEET NO., and E001.



DRAWING NOTES

- ① CARD READERS TO BE PROVIDED BY CHUBB SECURITY. UNDERGROUND CONDUIT TO BE BY OTHERS.
- ② PROVIDE 120V, 15A FEED FOR GATE OPERATOR MOTOR IN 2" UNDERGROUND CONDUIT PROVIDED BY OTHERS.

CLIENT LOGO



No.	ISSUANCE	DATE
1	ISSUED FOR BID REVIEW	2025.09.05
2	ISSUED FOR BID AND PERMIT	2025.12.03

CLIENT
CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E. HAMILTON, ONTARIO

TITLE
ELECTRICAL SITE PLAN

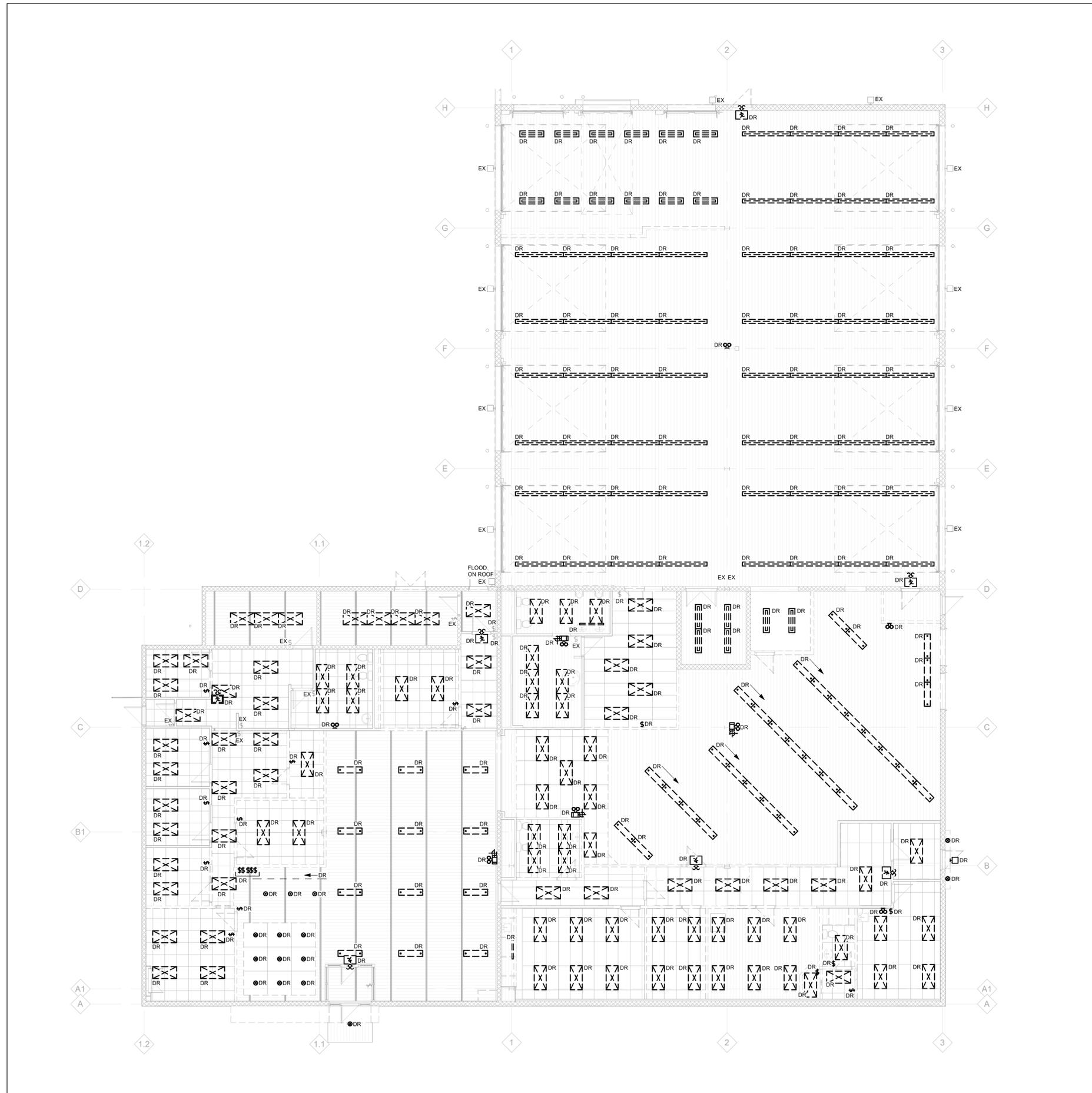
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SCALE:	1 : 200	SHEET NO.:
DATE:	2025-09-05	E101
PROJECT NO.:	2024-1007-10	
DRAWN BY:	D. Elliott	
CHECKED BY:	B. Mushtaq	



GENERAL NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AS SHOWN COMPLETE WITH WIRING BACK TO SOURCE. CIRCUIT BREAKERS MADE SPARE TO BE USED FOR NEW LIGHTING. DEVICES AND EQUIPMENT FEEDS. REUSE EXISTING CONDUIT WHERE POSSIBLE AND IN GOOD CONDITION. NEW LIGHTING MOUNTING HEIGHT TO MATCH EXISTING FIXTURE HEIGHTS. ENSURE EXISTING HEIGHTS ARE NOTED PRIOR TO DEMOLITION OF FIXTURES.
2. ALL EXISTING EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS TO BE DISCONNECTED AND REMOVED.



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025.08.22
2	ISSUED FOR BID REVIEW	2025.09.05
3	ISSUED FOR BID AND PERMIT	2025.12.03

CLIENT
CITY OF HAMILTON
 71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
 371 BARTON ST. E. HAMILTON, ONTARIO

TITLE
LIGHTING DEMOLITION LAYOUT

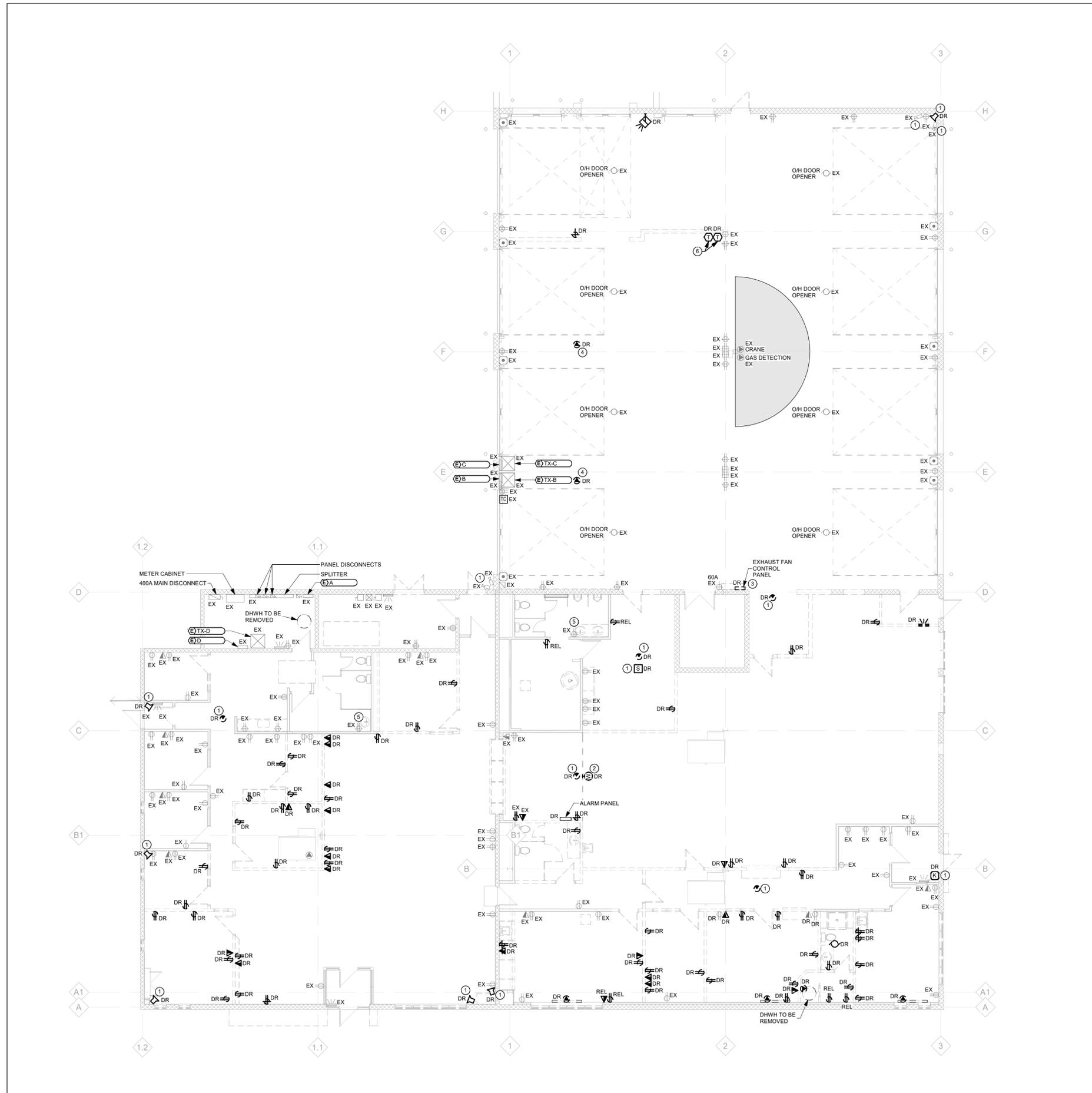


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SCALE:	1 : 100	SHEET NO.:	ED01
DATE:	2025-09-05		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	D. Elliott		
CHECKED BY:	B. Mushtaq		

1 LIGHTING DEMOLITION LAYOUT
 ED01 Scale: 1 : 100



GENERAL NOTES:

1. DISCONNECT AND REMOVE EXISTING DEVICES AS SHOWN TO BE DISCONNECTED AND REMOVED COMPLETE WITH WIRING BACK TO SOURCE. CIRCUIT BREAKERS MADE SPARE TO BE USED FOR NEW DEVICES AND EQUIPMENT FEEDS. REUSE EXISTING CONDUIT WHERE POSSIBLE AND IN GOOD CONDITION.
2. DISCONNECT AND REMOVE ALL WIRING BACK TO SOURCE FOR EQUIPMENT BEING SHOWN AS DEMOLISHED. CIRCUIT BREAKERS MADE SPARE TO BE USED FOR NEW DEVICES AND EQUIPMENT FEEDS. REUSE EXISTING CONDUIT WHERE POSSIBLE AND IN GOOD CONDITION.
3. DISCONNECT AND REMOVE ALL EXISTING COMMUNICATIONS AND DATA WIRING. EXISTING DEVICE BOXES AND CONDUITS TO REMAIN FOR REUSE.

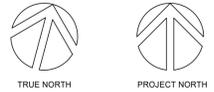
DRAWING NOTES:

- ① COORDINATE WITH CHUBB SECURITY FOR REMOVAL/RELOCATION OF SMOKE DETECTORS AND SECURITY DEVICES.
- ② COORDINATE WITH OWNER IT DEPARTMENT FOR REMOVAL/RELOCATION OF IT NETWORK DEVICES AND EQUIPMENT.
- ③ DISCONNECT AND REMOVE EXISTING EXHAUST FAN CONTROL PANEL COMPLETE WITH ALL POWER AND CONTROLS WIRING TO EXISTING EXHAUST FANS. DEMOLISH ALL LINE SIDE WIRING BACK TO SOURCE. CIRCUIT BREAKER MADE SPARE TO BE USED FOR NEW DEVICES AND EQUIPMENT FEEDS. REUSE EXISTING CONDUIT WHERE POSSIBLE AND IN GOOD CONDITION.
- ④ DISCONNECT AND REMOVE EXISTING WIRING BACK TO SOURCE FOR GAS HEATER. CIRCUIT BREAKER MADE SPARE TO BE USED FOR NEW DEVICES AND EQUIPMENT FEEDS. REUSE EXISTING CONDUIT WHERE POSSIBLE AND IN GOOD CONDITION. REFER TO MECHANICAL DRAWINGS FOR DEMOLITION.
- ⑤ CONFIRM IF EXISTING SINK RECEPTACLE IS GFCI RATED, IF NOT, REPLACE EXISTING WITH NEW GFCI RECEPTACLE.
- ⑥ DISCONNECT AND REMOVE EXISTING LINE VOLTAGE THERMOSTATS (C/W CONDUIT AND WIRING) COMPLETE TO SOURCE.

CLIENT LOGO



KEY PLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025.08.22
2	ISSUED FOR BID REVIEW	2025.09.05
3	ISSUED FOR BID AND PERMIT	2025.12.03

CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES
BUILDING RENOVATION
371 BARTON ST. E. HAMILTON, ONTARIO

TITLE

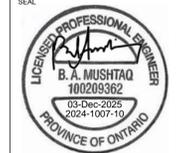
POWER AND SYSTEMS
DEMOLITION LAYOUT

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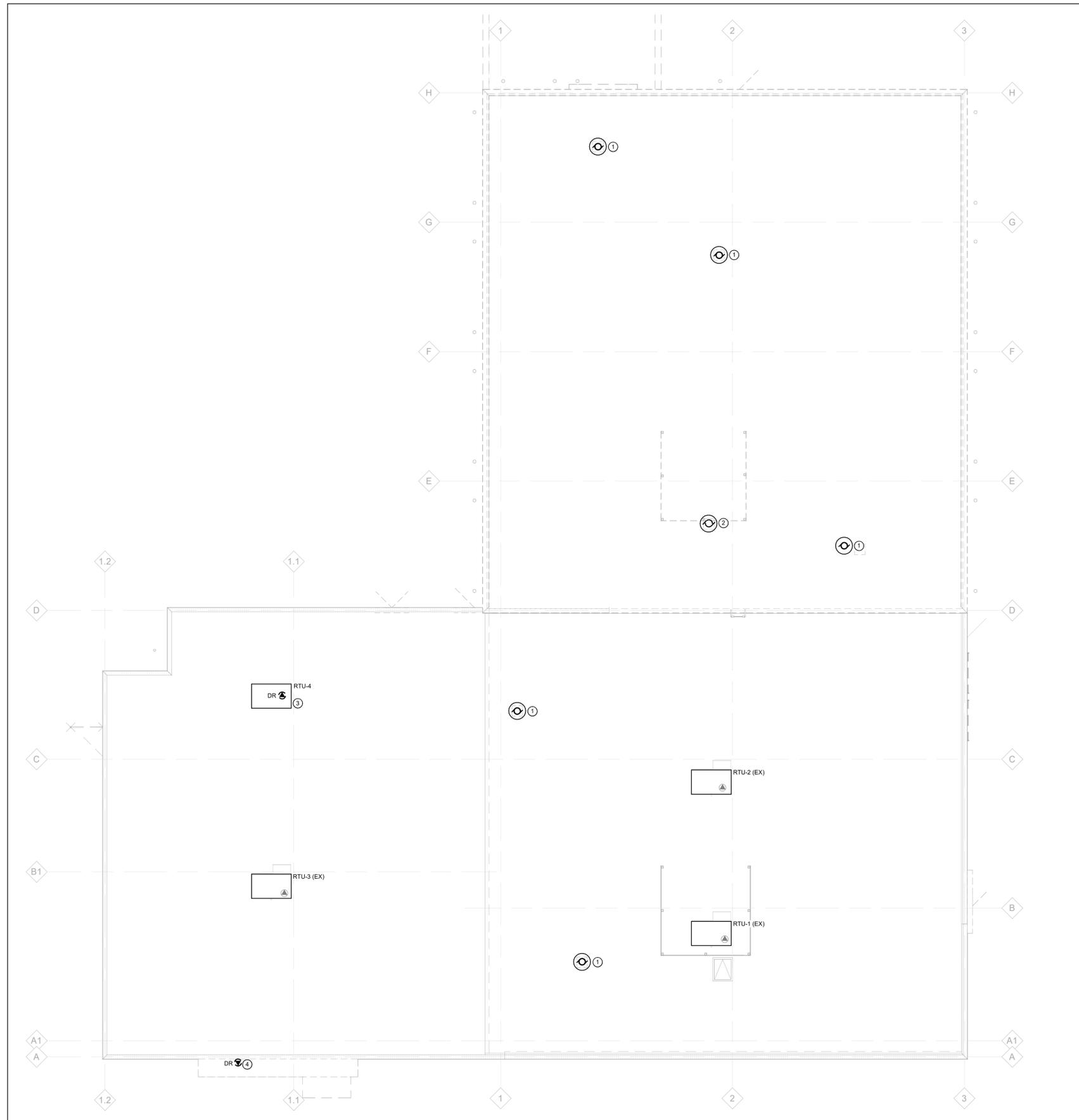
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SCALE:	1 : 100	SHEET NO.:
DATE:	2025-09-05	ED02
PROJECT NO.:	2024-1007-10	
DRAWN BY:	D. Elliott	
CHECKED BY:	B. Mushtaq	

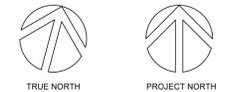


1 ROOF PLAN
ED03 Scale: 1 : 100

- GENERAL NOTES:**
1. ALLOW FOR REMOVAL OF SIGNAGE WIRING AND CONDUIT RUNNING ON THE ROOF.
- DRAWING NOTES:**
- 1 EXISTING EXHAUST FAN TO BE REPLACED WITH NEW ONES. DISCONNECT AND REMOVE ALL POWER AND CONTROLS WIRING FROM EXHAUST FAN BACK TO EXHAUST FAN CONTROL PANEL.
 - 2 DISCONNECT AND REMOVE ALL POWER AND CONTROLS WIRING FROM EXHAUST FAN BACK TO EXHAUST FAN CONTROL PANEL.
 - 3 DISCONNECT AND REMOVE WIRING FROM EXISTING ROOFTOP UNIT. MAKE SAFE ALL DISCONNECTED WIRING AND TERMINATE IN JUNCTION BOX WITH COVER FOR RECONNECTION TO NEW UNIT. REFER TO DRAWING E302 FOR NEW INSTALLATION.
 - 4 DISCONNECT AND REMOVE EXISTING WIRING TO BUILDING SIGNAGE COMPLETE WITH ASSOCIATED CONDUIT BACK TO SOURCE.



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025.08.22
2	ISSUED FOR BID REVIEW	2025.09.05
3	ISSUED FOR BID AND PERMIT	2025.12.03

CLIENT
CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E. HAMILTON, ONTARIO

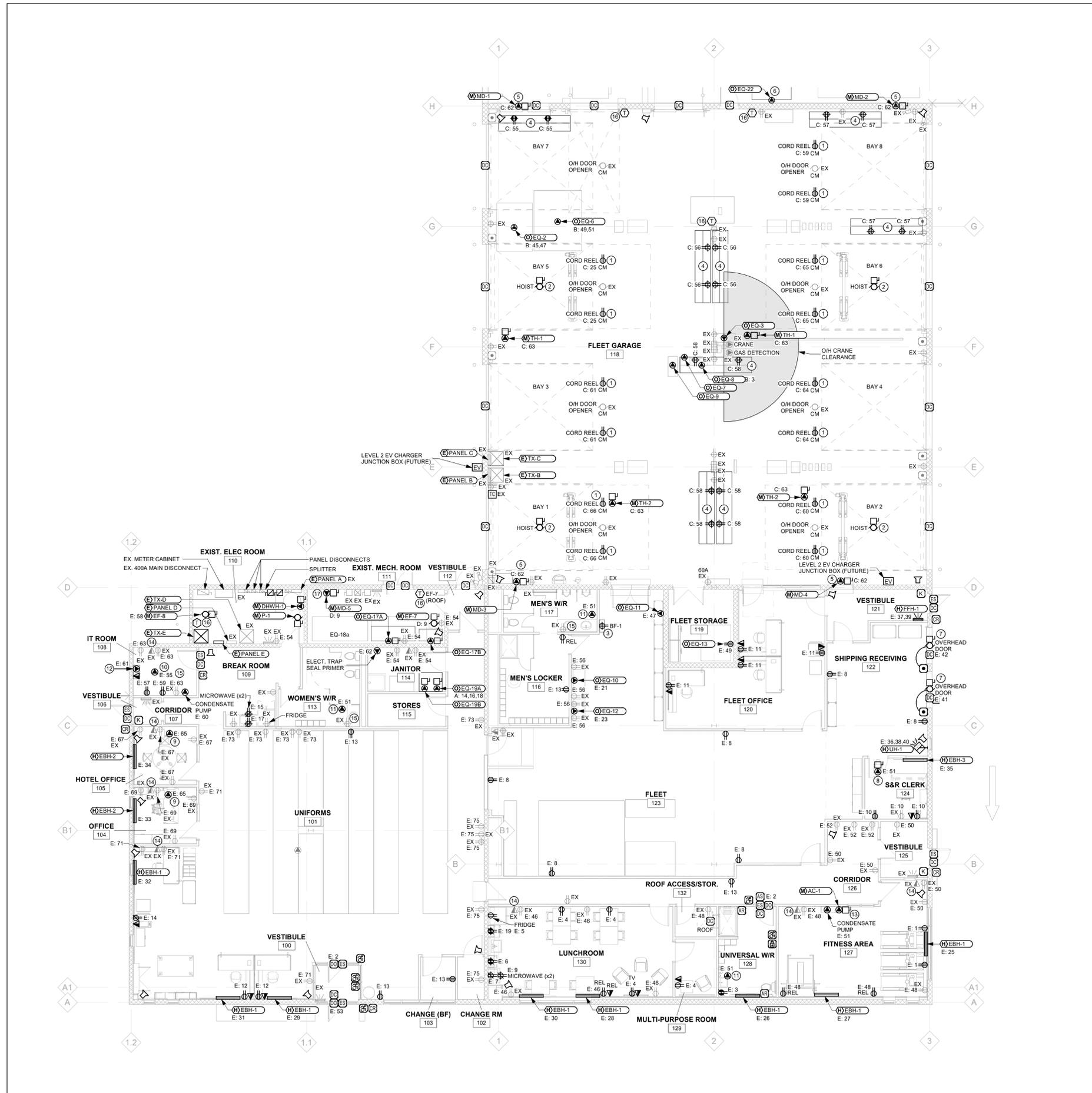
TITLE
ROOF PLAN - DEMOLITION LAYOUT



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DATE:	2025-09-05		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	D. Elliott		
CHECKED BY:	B. Mushtaq		

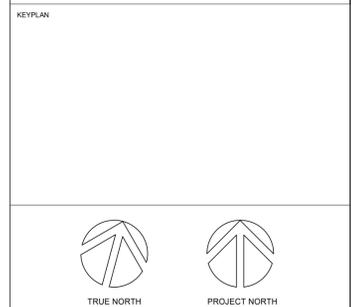


GENERAL NOTES:

- ALL NEW AND EXISTING PENETRATIONS THROUGH EXISTING FIRE SEPARATIONS ARE REQUIRED TO BE SEALED WITH 2HR ULC FIRE STOP SYSTEMS THAT HAVE BEEN FIRE TESTED IN ACCORDANCE WITH CANULC-S115-11, STANDARD METHOD OF FIRE TESTS OF FIRESTOP SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE SEPARATIONS.
- THE BOTTOM 50mm OF THE GARAGE IS CLASSIFIED AS ZONE 2 HAZARDOUS. NO ELECTRICAL INSTALLATIONS ARE PERMITTED WITHIN THIS AREA.
- SECURITY DEVICES SHOWN FOR ACCESS CONTROL ARE FOR ROUGH-IN ONLY. FINAL DEVICES TO BE PROVIDED BY CHUBB SECURITY. COORDINATE EXACT DEVICE LOCATIONS AND DATA ROUGH-INS WITH OWNER AND CHUBB SECURITY PRIOR TO ROUGH-IN.
- ALLOW FOR 16 SECURITY CAMERA ROUGH-INS THROUGHOUT THE FACILITY. COORDINATE WITH OWNER FOR EXACT CAMERA LOCATIONS PRIOR TO ROUGH-IN.
- ALL DATA DROPS SHOWN ARE FOR ROUGH-IN ONLY. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH OWNER'S IT DEPARTMENT.

DRAWING NOTES:

- CORD REELS TO BE MOUNTED AT 3000mm A.F.F. COORDINATE FINAL MOUNTING LOCATION AND HEIGHT WITH OWNER.
- NOT USED.
- RELOCATED RECEPTACLE TO BE POSITIONED WITHIN THE DRINKING FOUNTAIN SHROUD. COORDINATE EXACT LOCATION WITHIN MANUFACTURER'S INSTALLATION REQUIREMENTS TO ENSURE RECEPTACLE IS FULLY CONCEALED AND ACCESSIBLE FOR CONNECTION.
- WIRING FOR WORKBENCH TASK LIGHTING TO BE ROUTED DOWN ADJACENT WALL OR COLUMN WHERE WORKBENCH IS NOT LOCATED NEAR A WALL OR COLUMN. PROVIDE SERVICE COLUMN OF APPROPRIATE SIZE TO ACCOMMODATE LIGHTING AND RECEPTACLE POWER FEEDS.
- MOTORIZED DAMPER TO BE WIRED TO GAS DETECTION CONTROLLER RELAY.
- CENTRAL VACUUM SYSTEM AND RELATED ELECTRICAL INSTALLATIONS TO BE INCLUDED IN TENDER AS A SEPARATE PRICE ITEM IN ITS ENTIRETY.
- COORDINATE EXACT MOUNTING LOCATION AND HEIGHT ON SITE FOR ROLL-UP DOOR MOTOR DISCONNECT.
- PROVIDE 120V FEED FOR BYPASS BOX CONTROL TRANSFORMER PROVIDED BY MECHANICAL FROM CONTACTOR FOR LOW VOLTAGE. PROVIDE CONTACTOR FOR LOW VOLTAGE INTERLOCK BETWEEN EBH-3 THERMOSTAT IN THIS ROOM AND THE TRANSFORMER.
- PROVIDE 120V FEED FOR BYPASS BOX CONTROL TRANSFORMER PROVIDED BY MECHANICAL FROM CONTACTOR FOR LOW VOLTAGE. PROVIDE CONTACTOR FOR LOW VOLTAGE INTERLOCK BETWEEN EBH-2 THERMOSTAT IN THIS ROOM AND THE TRANSFORMER.
- RACK COOLING SUPPLIED BY OWNER.
- PROVIDE STEP-DOWN TRANSFORMER (120-24V) FOR EACH WASHROOM FIXTURE REQUIRING POWER. TRANSFORMERS ARE TO BE LOCATED IN NEAREST ACCESSIBLE CEILING SPACE.
- PROVIDE FEED FOR SECURITY CONTROL PANEL TO BE INSTALLED IN IT ROOM. COORDINATE POWER REQUIREMENTS AND FINAL LOCATION WITH OWNER AND CHUBB SECURITY PRIOR TO ROUGH-IN.
- POWER FEED FOR AIR CONDITIONING UNIT TO BE BROUGHT TO CU-1 OUTDOOR UNIT. WIRING FOR INDOOR UNIT AC-1 TO BE FROM CU-1.
- PROVIDE NEW DATA OUTLET AND FACEPLATE IN EXISTING DEVICE BOX.
- SEE NOTE 5 ON DRAWING ED02 FOR SINK RECEPTACLES.
- LINE VOLTAGE THERMOSTAT, SUPPLIED BY MECHANICAL TRADE, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- MOTORIZED DAMPER TO BE WIRED TO EXHAUST FAN EF-7.



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CITY OF HAMILTON
71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

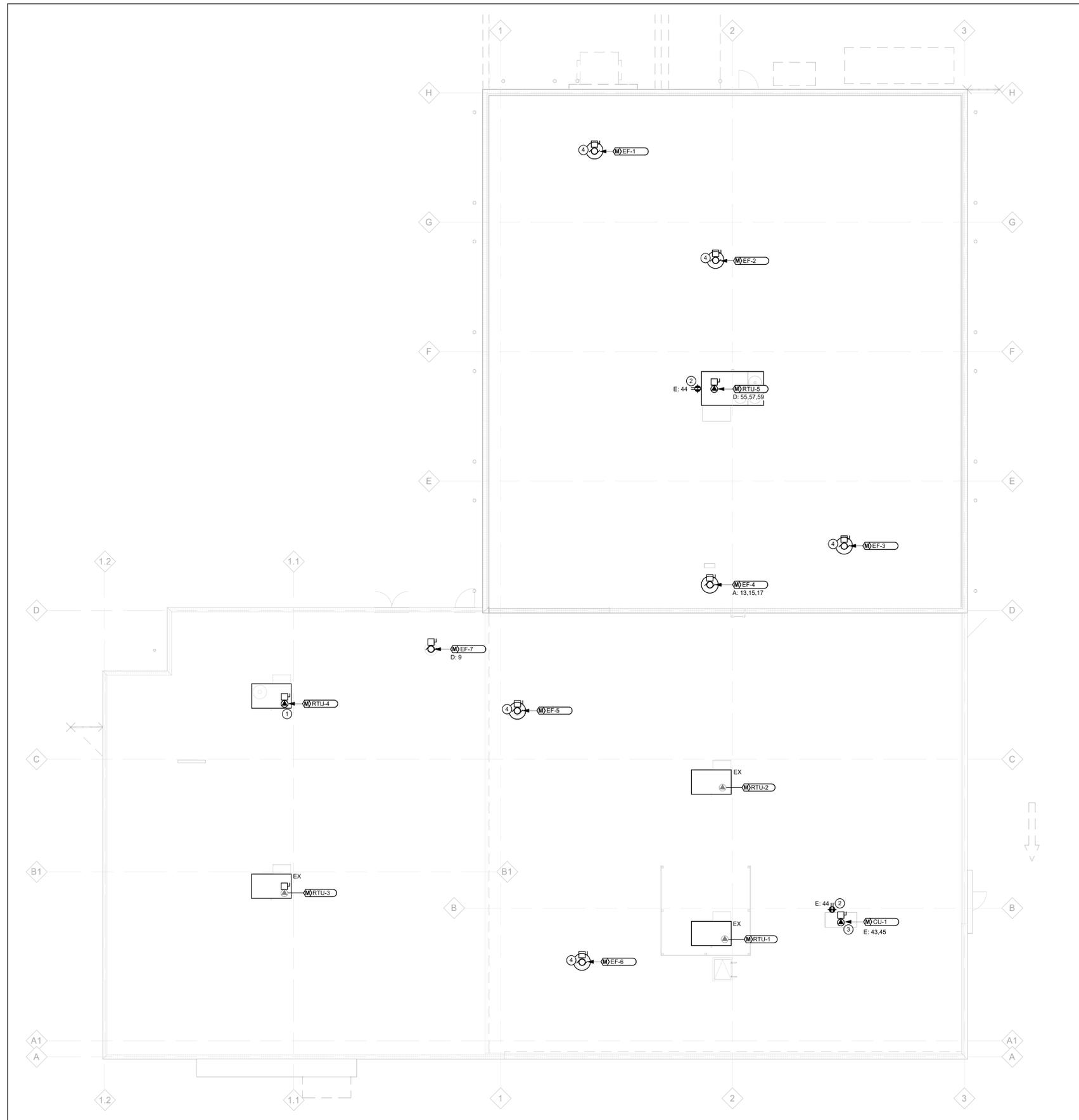
PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
371 BARTON ST. E. HAMILTON, ONTARIO

TITLE
POWER AND SYSTEMS LAYOUT



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SCALE: 1 : 100	SHEET NO:
DATE: 2025-09-05	E301
PROJECT NO: 2024-1007-10	
DRAWN BY: D. Elliott	
CHECKED BY: B. Mushtaq	



GENERAL NOTES:

1. ALL PENETRATIONS THROUGH ROOF ARE TO BE SEALED AND/OR BE RUN WITH MECHANICAL SERVICES.

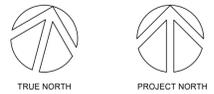
DRAWING NOTES:

- 1 RECONNECT EXISTING WIRING FROM JUNCTION BOX INSTALLED IN DEMO PHASE TO NEW ROOFTOP UNIT ONCE INSTALLED.
- 2 PROVIDE 5-20R RECEPTACLE PROVIDE BY CLASS A TYPE GFCI COMPLETE WITH IN-USE WEATHERPROOF COVER. RECEPTACLE SHALL NOT BE INSTALLED LESS THAN 30" (750mm) ABOVE GRADE. COORDINATE SUITABLE MOUNTING LOCATION AND INSTALLATION WITH MECHANICAL CONTRACTOR. ROOF PENETRATIONS SHALL BE RAIN TIGHT AND CONDUITS PROPERLY SUPPORTED.
- 3 POWER FEED FOR AIR CONDITIONING UNIT TO BE BROUGHT TO CU-1 OUTDOOR UNIT. WIRING FOR INDOOR UNIT AC-1 TO BE FROM CU-1.
- 4 CONNECT NEW EQUIPMENT TO EXISTING WIRING LEFT IN PLACE DURING DEMOLITION COMPLETE IN ALL RESPECTS.

CLIENT LOGO



KEYPLAN



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CLIENT

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT

HPS FLEET SERVICES
BUILDING RENOVATION
371 BARTON ST. E. HAMILTON, ONTARIO

TITLE

ROOF PLAN

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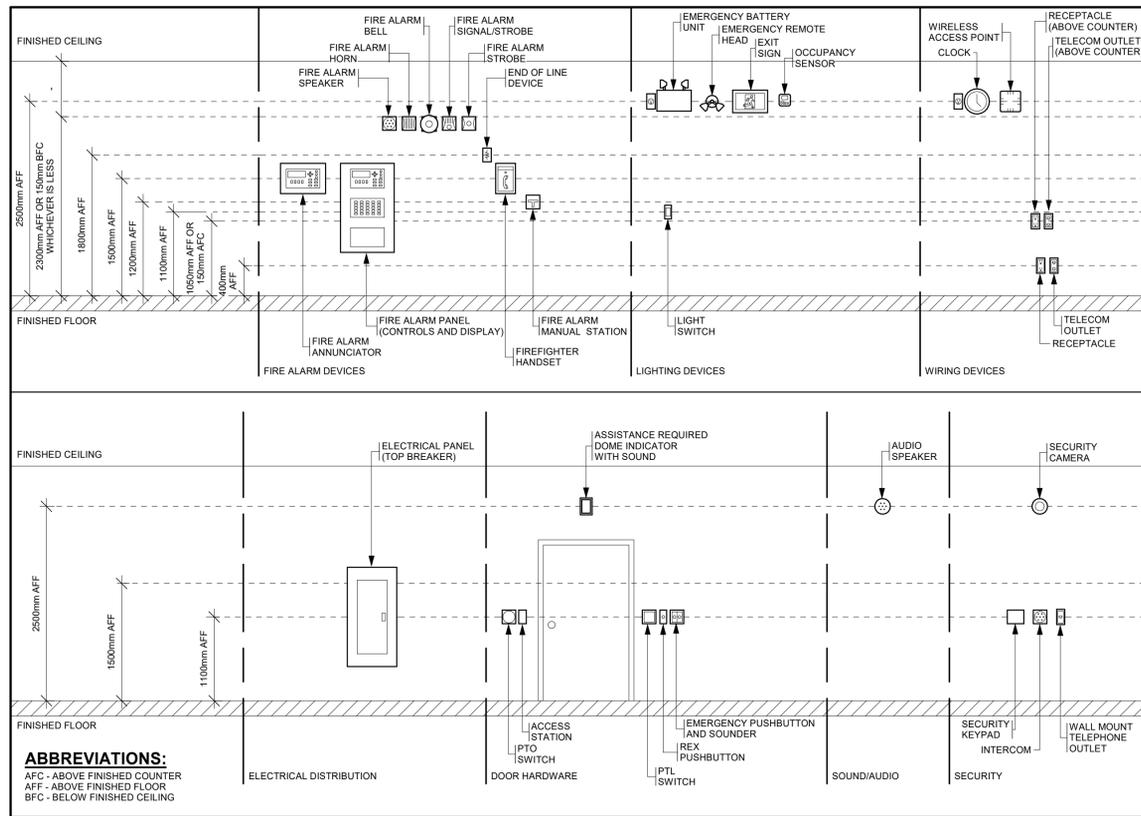


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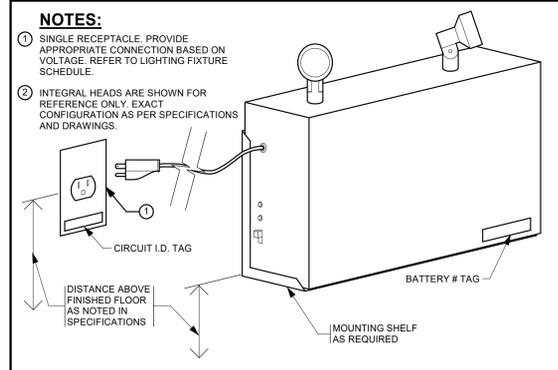
SCALE:	1 : 100	SHEET NO.:	E302
DATE:	2025-09-05		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	D. Elliott		
CHECKED BY:	B. Mushtaq		

1 ROOF PLAN
E302 Scale: 1 : 100



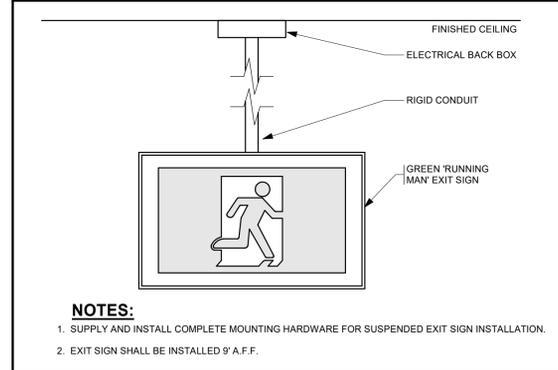
1 ELECTRICAL STANDARD WALL MOUNTING HEIGHTS DETAIL

E801 Scale: N.T.S.



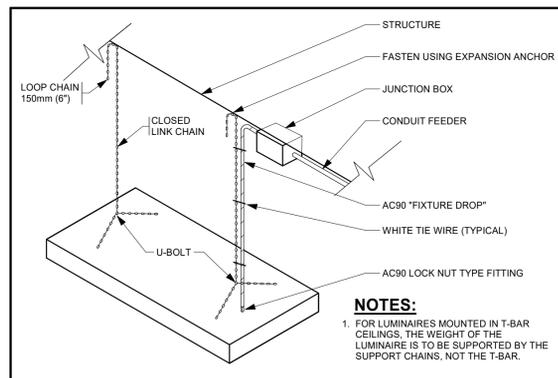
2 EMERGENCY LIGHTING BATTERY UNIT INST. DETAIL

E801 Scale: N.T.S.



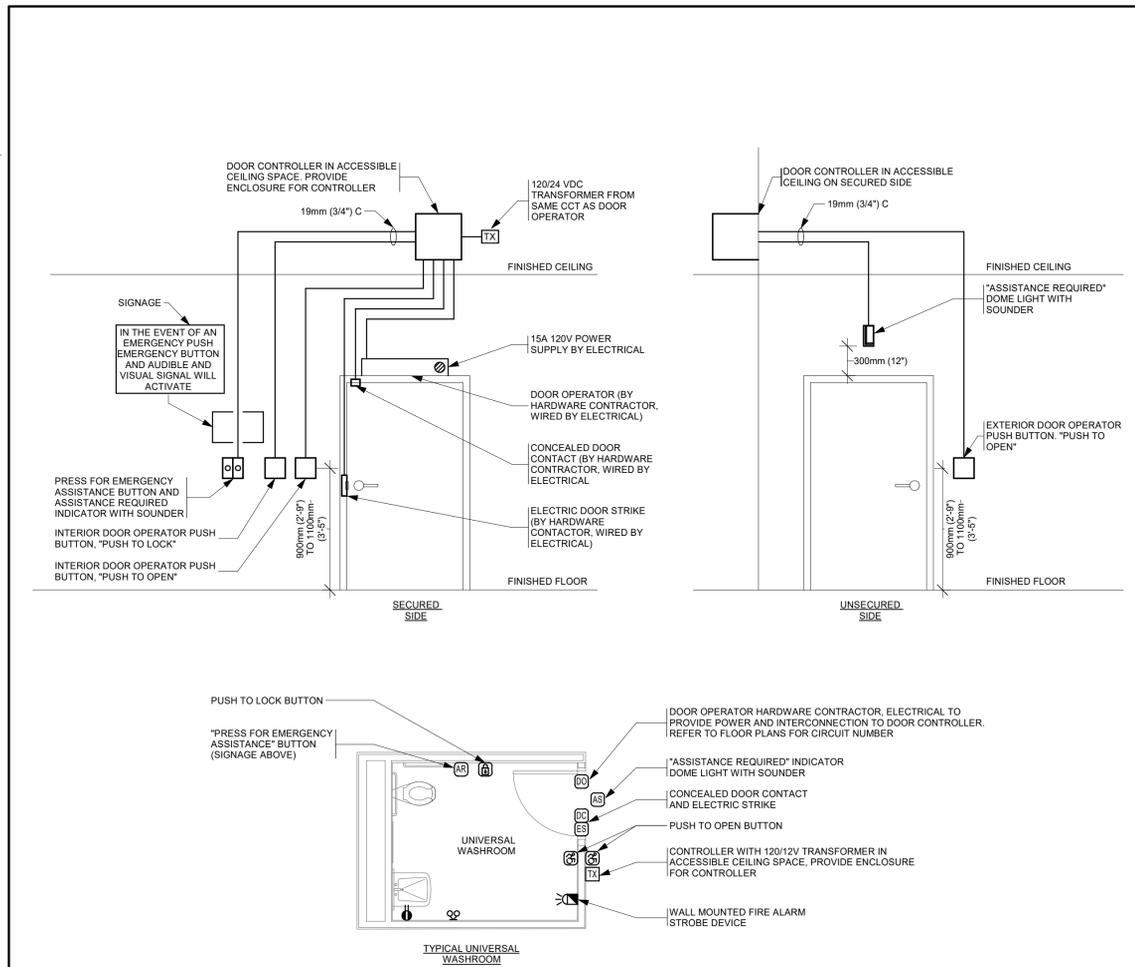
3 PENDANT MOUNT EXIT SIGN

E801 Scale: N.T.S.



4 LUMINAIRE SUSPENSION DETAIL

E801 Scale: N.T.S.



NOTES:

- UNLESS OTHERWISE NOTED, PROVIDE ALL PUSH BUTTONS, SWITCHES, CONTROLLERS, POWER SUPPLY, ETC INDICATED ON THIS DETAIL FOR A COMPLETE AND WORKING SYSTEM.
- DOOR CONTROLLER SHALL BE CAMDEN RESTROOM CONTROL KIT: CX-WC SERIES:
 - CX-EMF-2 MULTI-FUNCTION RELAY CONTROLLER, PROVIDE ENCLOSURE FOR CONTROLLER.
 - CM-45/855SE1 ILLUMINATED PUSH PLATE SWITCH (PUSH TO LOCK), WITH SIGN.
 - (2) CM-45/455SE1 ILLUMINATED PUSH PLATE (PUSH TO OPEN), WITH SIGN.
 - CX-MDA MAGNETIC DOOR CONTACT.
- EMERGENCY CALL SYSTEM SHALL BE CAMDEN CX-WEC SERIES CONSISTING OF:
 - CM-AF54050 DOUBLE GANG, STAINLESS STEEL FACEPLATE, PUSH/PULL MUSHROOM PUSHBUTTON RED, "ASSISTANCE REQUIRED", W/ LED ANNUNCIATOR AND ADJUSTABLE SOUNDER, "ASSISTANCE REQUESTED".
 - CM-AF14150 SINGLE GANG DOME LIGHT WITH ADJUSTABLE SOUNDER, "ASSISTANCE REQUIRED".
 - CM-SE21A SIGN, TO BE LOCATED ABOVE THE ACTIVATION SWITCH, FIRE RATED EXPANDED PVC WHITE WITH 25mm RED LETTERING. TEXT SHALL BE "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE".
 - POWER SUPPLY SHALL BE REGULATED 120V/24VDC POWER SUPPLY, CAMDEN PN: CX-TRX-5024. INSTALL IN SUITABLE ENCLOSURE. PROVIDE POWER CONNECTION, USING SAME CCT AS DOOR OPERATOR.
- INSTALL DOOR CONTROLLER AND POWER SUPPLY SET HIGH AS INDICATED.
- COORDINATE WITH HARDWARE CONTRACTOR TO ENSURE ELECTRIC STRIKE AND DOOR OPERATORS ARE COMPATIBLE WITH CAMDEN CONTROLLER. HARDWARE CONTRACTOR TO PROVIDE ELECTRIC STRIKE, CONCEALED MAGNETIC DOOR CONTACTS AND DOOR OPERATOR, THIS CONTRACTOR TO INSTALL AND PROVIDE ALL OTHER REQUIRED ACCESSORIES FOR A COMPLETE AND OPERATING SYSTEM.
- INSTALL CONTROLLER AND EMERGENCY CALL SYSTEM AS PER CBC 3.8.3.12 REQUIREMENTS.

SEQUENCE OF OPERATION:

- NORMAL UNOCCUPIED MODE:
 - DOOR OPERATOR PUSH BUTTON OCCUPANCY LED TO BE BLUE TO INDICATE WASHROOM IS VACANT.
 - THE DOOR IS OPENED AUTOMATICALLY BY PRESSING THE EXTERIOR DOOR OPERATOR PUSH BUTTON. AFTER A DELAY OF 10 SECONDS IN THE FULLY OPENED POSITION, THE DOOR WILL AUTOMATICALLY CLOSE. ALTERNATIVELY, THE DOOR CAN BE MANUALLY OPENED BY PUSHING THE DOOR.
 - ONCE THE DOOR HAS FULLY CLOSED (SENSED BY THE DOOR CONTACTS), PRESSING THE "PUSH TO LOCK" BUTTON WILL LOCK THE DOOR BY ENERGIZING THE ELECTRIC STRIKE. THE EXTERIOR HANDICAPPED DOOR OPERATOR PUSH BUTTON IS REMOVED FROM THE CIRCUIT. DOOR OPERATOR PUSH BUTTON OCCUPANCY LED TO CHANGE TO RED TO INDICATE WASHROOM IS OCCUPIED.
- NORMAL OCCUPIED MODE:
 - TO EXIT THE WASHROOM, PRESSING THE INTERIOR HANDICAPPED DOOR OPERATOR BUTTON WILL UNLOCK THE DOOR BY DE-ENERGIZING THE ELECTRIC STRIKE. OPENS THE DOOR AND RESETS THE SYSTEM. THE DOOR WILL REMAIN OPEN FOR A DELAY OF 10 SECONDS BEFORE CLOSING AGAIN AND REMAIN UNLOCKED FOR NEXT USER. DOOR OPERATOR PUSH BUTTON OCCUPANCY LED TO CHANGE TO BLUE TO INDICATE WASHROOM IS VACANT.
 - SHOULD THE DOOR BE OPENED MANUALLY (USE OF DOOR HANDLES) OPEN WHEN OCCUPIED, THE CONCEALED DOOR CONTACTS WILL RESET THE SYSTEM BACK TO UNOCCUPIED MODE.
- ASSISTANCE REQUIRED MODE:
 - UPON ACTIVATION OF THE "PRESS FOR EMERGENCY ASSISTANCE" BUTTON AT ANYTIME (BY PRESSING) UNLOCK THE DOOR BY DE-ENERGIZING THE ELECTRIC STRIKE. THE DOOR WILL REMAIN CLOSED, AND ILLUMINATE THE "ASSISTANCE REQUESTED" AND "ASSISTANCE REQUIRED" INDICATORS, AND SOUND THE BUILT-IN BUZZERS.
 - UPON "PRESS FOR EMERGENCY ASSISTANCE" BUTTON BEING RESET (BY BEING PULLED), RESET THE SYSTEM TO NORMAL UNOCCUPIED MODE, AND EXTINGUISH THE TWO ASSISTANCE REQUIRED INDICATORS, AND SILENCE THE BUILT-IN BUZZERS.
 - ENABLE THE 15 MINUTE TIME-OUT (RESET) FEATURE, USING THE CONTROLLER JUMPER SETTING.

5 TYPICAL UNIVERSAL WASHROOM DETAIL

E801 Scale: N.T.S.

CLIENT LOGO:

KEYPLAN:

TRUE NORTH PROJECT NORTH

No.	ISSUANCE	DATE
1	ISSUED FOR 75% CD REVIEW	2025.08.22
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3	ISSUED FOR BID AND PERMIT	2025.12.03

CLIENT: CITY OF HAMILTON
 71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT: HPS FLEET SERVICES BUILDING RENOVATION
 371 BARTON ST. E. HAMILTON, ONTARIO

TITLE: ELECTRICAL DETAILS AND SCHEDULES

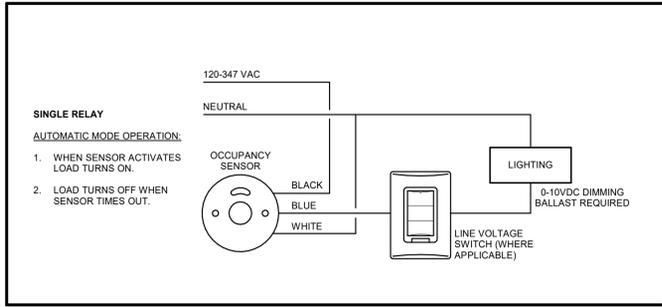
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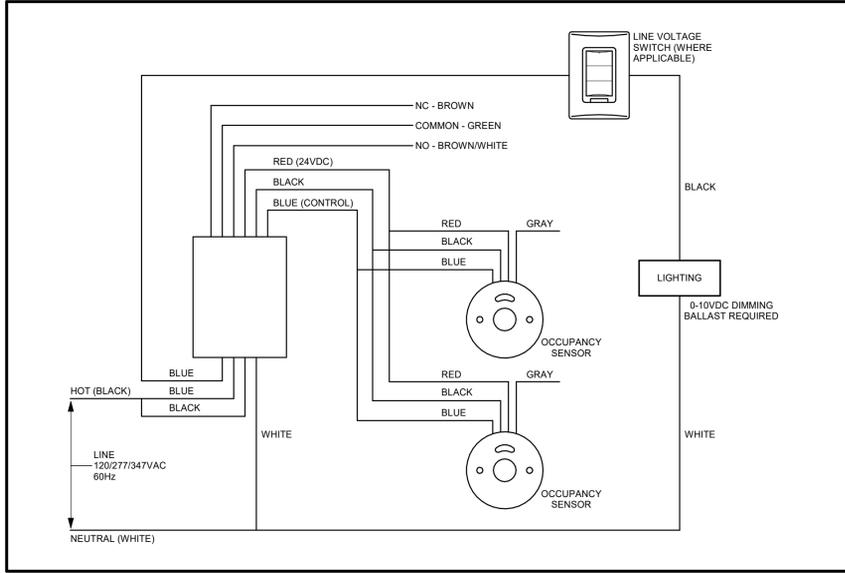
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DATE:	2025-09-05	E801
PROJECT NO.:	2024-1007-10	
DRAWN BY:	D. Elliott	
CHECKED BY:	B. Mushtaq	



1 LINE VOLTAGE OCCUPANCY SENSOR DETAIL
 E802 Scale: N.T.S.



2 LOW VOLTAGE RELAY PACK OCC. SENSOR W/L.V. SWITCH CONTROL (WHERE REQ'D)
 E802 Scale: N.T.S.

CLIENT LOGO



KEYPLAN

No.	ISSUANCE	DATE
1	ISSUED FOR BID AND PERMIT	2025.12.03

CITY OF HAMILTON

71 MAIN STREET WEST, HAMILTON L8P 4Y5, ONTARIO

PROJECT
HPS FLEET SERVICES BUILDING RENOVATION
 371 BARTON ST. E. HAMILTON, ONTARIO

TITLE
ELECTRICAL DETAILS

WALTERFEDY

TORONTO | CALGARY | EDMONTON | KITCHENER | HAMILTON

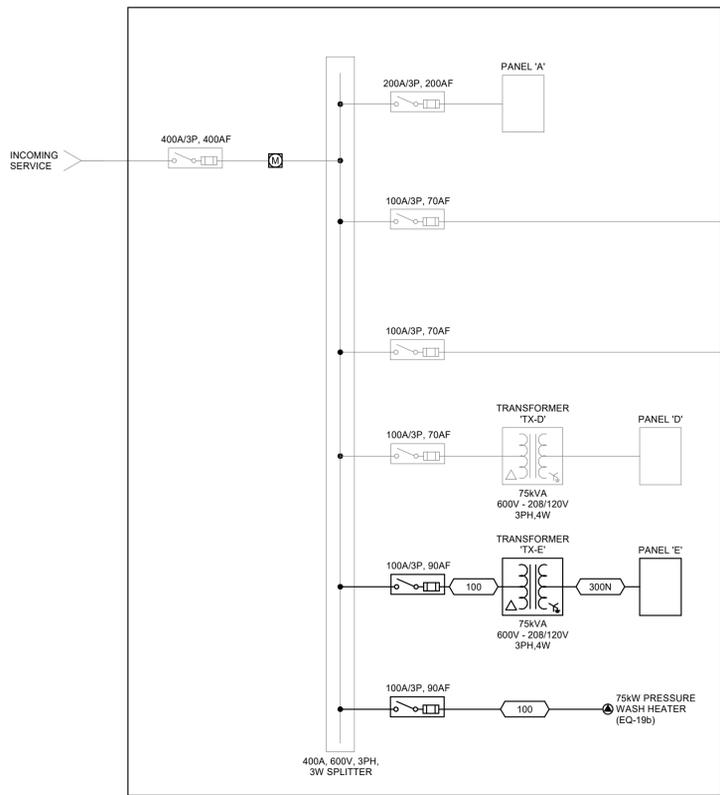
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DATE:	07/30/21		
PROJECT NO.:	2024-1007-10		
DRAWN BY:	FLastname		
CHECKED BY:	FLastname		



FEEDER SCHEDULE						
TAG	ALLOWABLE AMPACITY	RUNS	PHASE CONDUCTORS	IDENTIFIED (NEUTRAL) CONDUCTOR	BOND	CONDUIT SIZE
100N	100	1	3-3 AWG	3 AWG	6 AWG	35 1-1/4
300N	310	1	3-350 kcmil	350 kcmil	3 AWG	78 3"

FEEDER SCHEDULE NOTES:

- FEEDER SCHEDULE SYMBOLS OMITTING THE 'N' SHALL NOT INCLUDE THE IDENTIFIED (NEUTRAL) CONDUCTOR. CONDUITS SHOWN WITH 'M' MAY REDUCE ONE NOMINAL SIZE WHEN OMITTING THE IDENTIFIED CONDUCTOR.
- FEEDER SCHEDULE SYMBOLS PRE-FIXED WITH THE 'A' CHARACTER SHALL BE ALUMINIUM CONDUCTORS.
- ALL CONDUCTORS SHALL BE COPPER CABLES UNLESS OTHERWISE NOTED.

1 SINGLE LINE DIAGRAM
E901 Scale: N.T.S.

Branch Panel: B											
EXISTING						EXISTING					
Location: FLEET GARAGE 118						A.I.C. Rating: MLO					
Supply From: SURFACE						Mains Type: MLO					
Mounting: SURFACE						Mains Rating: 250 A					
Enclosure: NEMA 2						Bus Material: COPPER					
Manufacturer: SIEMENS											
Model:											
Volts: 120/208 Wye											
Phases: 3											
Wires: 4											
Notes:											
CCT	Circuit Description	Trip	Poles	A (kW)	B (kW)	C (kW)	Poles	Trip	Circuit Description	CCT	
1	+ EAST EXITS	15 A	1	0.02	0			1	15 A	+SPARE	
3	+ EQ-8 - CHOP SAW	15 A	1		1.44	0		1	15 A	*TOOL ROOM RECEIPT	
5	+ SPARE	15 A	1					1	15 A	*PARTS STORAGE COL. RECEPT	
7	+ SPARE	15 A	1	0	0			1	15 A	+SPARE	
9	*ROOF TOP UNIT	40 A	3		0	0		1	15 A	+SPARE	
11	+ SPARE	15 A	1					1	15 A	+SPARE	
13	+ SPARE	15 A	1					1	15 A	+SPARE	
15	*ROOF TOP UNIT	40 A	3		0	0		1	15 A	+SPARE	
17	+ SPARE	15 A	1					1	15 A	*RECEPT - SOUTH SHOP	
19	+SPARE	15 A	1	0	0			2	15 A	*SPLIT RECEPT	
21	+SPARE	15 A	2		0	0		1	15 A	+SPARE	
23	+SPARE	15 A	1					1	15 A	+SPARE	
25	+SPARE	15 A	1	0	0			1	15 A	+SPARE	
27	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
29	*HEATER WASHROOM	15 A	2		0	0		1	15 A	+SPARE	
31	+ SPARE	15 A	1		0	0		1	15 A	+SPARE	
33	+ SPARE	15 A	1		0	0		1	15 A	*WASHROOM EXHAUST FAN	
35	*RECEPT	15 A	1					1	15 A	+SPARE	
37	*HEATER - OFFICES	40 A	2		0	0		1	15 A	+SPARE	
39	+ SPARE	15 A	1		0	0		1	15 A	*RECEPT - PARTS STORAGE	
41	+ SPARE	15 A	1					1	15 A	*SMALL OUTSIDE LIGHTS SIDE	
43	+SPARE	15 A	1	0	0			1	15 A	+SPARE	
45	+ EQ-2 - WHEEL BALANCER	30 A	2		1.67	0		1	15 A	*RECEPT - PARTS COUNTER	
47	+ EQ-6 - TIRE MACHINE	15 A	2		0.38	0		1	15 A	+SPARE	
49	+ SPARE	15 A	1		0.38	0		1	15 A	+SPARE	
51	+ SPARE	15 A	1					1	15 A	*RECEPT - TECH LUNCH ROOM	
53	+SPARE	15 A	1	0	0			1	15 A	*SMALL PARTS COUNTER RECEIPT	
55	+SPARE	15 A	1					1	15 A	+SPARE	
57	+SPARE	15 A	1		0	0		1	15 A	*RECEPT - HALL	
59	*BACK COUNTER RECEIPT	15 A	1					1	15 A	+SPARE	
61	*BACK COUNTER QUAD RECEIPT	15 A	1	0	0			1	15 A	+SPARE	
63	*BACK COUNTER QUAD RECEIPT	15 A	1		0	0		1	15 A	*GATE OPERATOR MOTOR	
65	+ SPARE	15 A	1					1	15 A	+SPARE	
Total Load:				0.402 kW	3.485 kW	1.665 kW					
Total Amps:				3 A	31 A	15 A					
Prefix Legend:											
ALL BREAKERS SHALL BE NEW UNLESS OTHERWISE NOTED						GFCI - GROUND FAULT CIRCUIT INTERRUPT					
+ - BREAKER MADE AVAILABLE BY DEMOLITION						AFCI - ARC FAULT CIRCUIT INTERRUPT					
* - EXISTING BREAKER						AUX - AUXILIARY CONTACT					
M - METER											
ST - SHUNT TRIP											

Branch Panel: D											
EXISTING						EXISTING					
Location: EXIST. ELEC ROOM 110						A.I.C. Rating: MLO					
Supply From: SURFACE						Mains Type: MLO					
Mounting: SURFACE						Mains Rating: 250 A					
Enclosure: NEMA 2						Bus Material: COPPER					
Manufacturer: SIEMENS											
Model:											
Volts: 120/208 Wye											
Phases: 3											
Wires: 4											
Notes:											
CCT	Circuit Description	Trip	Poles	A (kW)	B (kW)	C (kW)	Poles	Trip	Circuit Description	CCT	
1	+ 100-103 LIGHTING	15 A	1	0.96	0			1	15 A	+SPARE	
3	+ EXTERIOR VEST. 125	15 A	1		0.3	0		1	15 A	+SPARE	
5	+ GATE OPERATOR MOTOR	15 A	1					1	15 A	+SPARE	
7	+SPARE	15 A	1	0	0			1	15 A	+SPARE	
9	EF-7	15 A	1		0.47	0		1	15 A	+SPARE	
11	+SPARE	15 A	1					1	15 A	+SPARE	
13	+SPARE	15 A	1	0	0			1	15 A	+SPARE	
15	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
17	+SPARE	15 A	1					2	15 A	*FRONT VESTIBULE HEATER	
19	+SPARE	15 A	1	0	0			1	20 A	+SPARE	
21	+SPARE	15 A	1		0.01	0		1	15 A	+SPARE	
23	+SPARE	15 A	1					1	15 A	+SPARE	
25	+SPARE	15 A	1	0	0			1	15 A	*PARTS MAN RECEIPT	
27	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
29	+SPARE	15 A	1					2	15 A	*SIDE DOOR HEATER	
31	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
33	*ROOF TOP UNIT	40 A	3		0	0		1	15 A	+SPARE	
35	+SPARE	15 A	1					1	15 A	+SPARE	
37	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
39	*ROOF TOP UNIT	40 A	3		0	0		1	15 A	+SPARE	
41	+SPARE	15 A	1					1	15 A	+SPARE	
43	+SPARE	20 A	2	0	0			2	15 A	+SPARE	
45	+SPARE	15 A	1					1	15 A	+SPARE	
47	+SPARE	15 A	1		0	0		1	15 A	+SPARE	
49	*OUTSIDE LIGHTS AND SIGNS	20 A	2	0	0			1	15 A	*OUTSIDE LIGHTS AND SIGNS	
51	*OUTSIDE LIGHTS AND SIGNS	20 A	2		0	0		1	15 A	*OUTSIDE LIGHTS AND SIGNS	
53	*OUTSIDE LIGHTS AND SIGNS	15 A	1					1	15 A	*OUTSIDE LIGHTS AND SIGNS	
55	+SPARE	15 A	1		8.16						
57	RTU-5	90 A	3		8.16						
59	+SPARE	15 A	1						8.16		
61	+SPARE	15 A	1								
63	+SPARE	15 A	1								
65	+SPARE	15 A	1								
Total Load:				9.112 kW	8.94 kW	8.156 kW					
Total Amps:				77 A	76 A	68 A					
Prefix Legend:											
ALL BREAKERS SHALL BE NEW UNLESS OTHERWISE NOTED						GFCI - GROUND FAULT CIRCUIT INTERRUPT					
+ - BREAKER MADE AVAILABLE BY DEMOLITION						AFCI - ARC FAULT CIRCUIT INTERRUPT					
* - EXISTING BREAKER						AUX - AUXILIARY CONTACT					
M - METER											
ST - SHUNT TRIP											

Branch Panel: C											
EXISTING						EXISTING					
Location: FLEET GARAGE 118						A.I.C. Rating: MLO					
Supply From: SURFACE						Mains Type: MLO					
Mounting: SURFACE						Mains Rating: 250 A					
Enclosure: NEMA 2						Bus Material: COPPER					
Manufacturer: SIEMENS											
Model:											
Volts: 120/208 Wye											
Phases: 3											
Wires: 4											
Notes:											
CCT	Circuit Description	Trip	Poles	A (kW)	B (kW)	C (kW)	Poles	Trip	Circuit Description	CCT	
1	+ GARAGE LIGHTING	15 A	1	0.88	0			1	15 A	*INFRA RED HEATERS	
3	+ GARAGE LIGHTING	15 A	1		1	0		1	15 A	*COLUMN RECEIPT	
5	+ GARAGE LIGHTING	15 A	1		0.64	0		1	15 A	*COLUMN RECEIPT	
7	+ GARAGE LIGHTING	15 A	1	0.84	0			3	15 A	*DOOR OPENERS	
9	+ 112/117/116/119-121 LIGHTING	15 A	1		1.04	0		3	15 A	*DOOR OPENERS	
11	+ 123 LIGHTING	15 A	1					0			
13	+ 124-130/132 LIGHTING	15 A	1	0.97	0			3	15 A	*DOOR OPENERS	
15	+ 110/111/113-115/104-109 LIGHTING	15 A	1		1.09	0		3	15 A	*DOOR OPENERS	
17	*LIGHTING CONTACTOR	15 A	1					0	0		
19	*DRILL PRESS	15 A	1	0	0			1	15 A	*COLUMN RECEIPT	
21	*VACUUM WASH BAY	15 A	1		0	0		2	30 A	*GAS HEATER WASH BAY	
23	*WASH BAY RECEIPT	15 A	1					0	0		
25	+GARAGE CORD REELS	15 A	1	0.36	0			1	15 A	+SPARE	
27	*NORTH GARAGE/OUTDOOR RECEIPT	15 A	2		0	0		1	15 A	*EAST GARAGE RECEIPT	
29	*NORTH GARAGE RECEIPT	15 A	1	0	0			1	15 A	*EAST GARAGE RECEIPT	
31	*NORTH GARAGE RECEIPT	15 A	1	0	0			1	15 A	*EAST GARAGE RECEIPT	
33	*NORTH OUTDOOR RECEIPT	15 A	1		0	0		1	15 A	*EAST OUTSIDE RECEIPT	
35	*FAN FORCED HEATERS	50 A	2		0	0		1	15 A	*PANEL RECEIPT	
37	*COLUMN RECEIPT	15 A	2		0	0		1	15 A	*ISOLATED GROUND RECEIPT	
39	+ SPARE	15 A	1					1	15 A	*ISOLATED GROUND RECEIPT	
41	+ SPARE	15 A	1		0	0		1	15 A	*ISOLATED GROUND RECEIPT	
43	+ SPARE	15 A	1		0	0		1	15 A	*BLOCK HEATERS NORTH	
45	+ SPARE	15 A	1		0	0		1	15 A	*BLOCK HEATERS NORTH	
47	+ SPARE	15 A	1		0	0		1	15 A	*BLOCK HEATERS NORTH	
49	+ SPARE	15 A	1		0	0		3	30 A	+SPARE	
51	*GARAGE DOOR	30 A	2		0	0		1	15 A	*GARAGE WORKBENCHES	
53	*GARAGE DOOR RECEIPT WEST	15 A	1					1	15 A	*GARAGE WORKBENCHES	
55	GCFI GARAGE WORKBENCH	15 A	1	0.36	0.72			1	15 A	*GARAGE WORKBENCHES	
57	GARAGE WORKBENCHES	15 A	1		0.72	1.08		1	15 A	*GARAGE CORD REELS	
59	GARAGE CORD REELS	15 A	1					0.36	0.36		
61	GARAGE CORD REELS	15 A	1	0.36	0.8			1	15 A	*GARAGE MOTORIZED DAMPERS	
63	GARAGE TH-1, TH-2	15 A	1		0.48	0.36		1	15 A	*GARAGE CORD REELS	
65	GARAGE CORD REELS	15 A	1					0.36	0.36		
Total Load:				3.929 kW	4.209 kW	2.022 kW					
Total Amps:				35 A	38 A	17 A					
Prefix Legend:											
ALL BREAKERS SHALL BE NEW UNLESS OTHERWISE NOTED						GFCI - GROUND FAULT CIRCUIT INTERRUPT					
+ - BREAKER MADE AVAILABLE BY DEMOLITION						AFCI - ARC FAULT CIRCUIT INTERRUPT					
* - EXISTING BREAKER						AUX - AUXILIARY CONTACT					
M - METER											
ST - SHUNT TRIP											

Branch Panel: E											
NEW						NEW					
Location: EXIST. ELEC ROOM 110						A.I.C. Rating: 22kAIC					
Supply From: SURFACE						Mains Type: MLO					
Mounting: SURFACE						Mains Rating: 400 A					
Enclosure: NEMA 2						Bus Material: COPPER					
Manufacturer: SIEMENS											

LIGHTING FIXTURE SCHEDULE																						
TAG	DESCRIPTION	MANUFACTURER	SERIES	PHYSICAL CHARACTERISTICS					MOUNTING					ELECTRICAL CHARACTERISTICS					ACCESSORIES	NOTES	REV	
				NOMINAL SIZE	RATING	MATERIAL	COLOUR	FINISH	TYPE	HEIGHT	OPTIC	VOLTS	LOAD	LUMENS	CCT	CRI	DRIVER					
BU: EMERGENCY BATTERY UNIT																						
BU1	EMERGENCY BATTERY UNIT	STANPRO	SLB			STL	WHT	PWD	WALL	8' A.F.F.											UNIT COMPLETE WITH 2 MR16 7W LED LAMPS	
D: DOWNLIGHT																						
D10	6" DOWNLIGHT	COOPER/HALO	HLBFR6	6" x 0"			STL	WHT	PWD	RECESSED	CEILING	LENSED	120 V	12 VA	1000	4000K	80 CRI	DIM10				
E: EMERGENCY LIGHTING																						
E10	REMOTE LIGHTING HEADS	STANPRO	N				POLY	WHT	PWD	WALL	8' A.F.F.	LENSED	12 V	7 VA							MR16 7W LED LAMPS	
L: LINEAR																						
L10	LED STRIPLIGHT	COOPER/METALUX	4SNLED	48" x 4" x 3"			STL	WHT	PWD	SUSPENDED	10' A.F.F.	LENSED	120 V	40 VA	5478	4000K	80 CRI	DIM10				PROVIDE DAISY CHAIN CONNECTORS, MASTER SWITCH, 120V CORDS AND ALL REQUIRED ACCESSORIES TO FURNISH A COMPLETE WORKING SOLUTION
L15	LINEAR UNDER CABINET	COOPER/HALO	HU11	48" x 3" x 3"			STL	WHT	PWD	SURFACE	UNDERCABI NET	LENSED	120 V	40 VA	1540	4000K	80 CRI	DIM10				
L20	SUSPENDED LINEAR LED	COOPER/NEORAY	8SNLED	96" x 3" x 3"			STL	WHT	PWD	SUSPENDED		LENSED	120 V	40 VA	10402	4000K	80 CRI	DIM10				
L25	SUSPENDED LINEAR LED	COOPER/NEORAY	4SNLED	48" x 3" x 3"			STL	WHT	PWD	SUSPENDED		LENSED	120 V	40 VA	10402	4000K	80 CRI	DIM10				
L30	8' LED LENSED LOW BAY LINEAR	COOPER/METALUX	8LBLEED	96" x 4" x 3"			STL	WHT	PWD	SUSPENDED		LENSED	120 V	40 VA	4000K	80 CRI	DIM10					
L35	LED LINEAR VANITY LIGHT	PROGRESS LIGHTING	P300411	24" x 3" x 3"			STL	WHT	PWD	WALL		LENSED	120 V	40 VA	1644	4000K	90 CRI	DIM10				
L40	1x4 VAPOR TIGHT LED	COOPER/METALUX	4VRVT1	48" x 12" x 3"			STL	WHT	PWD	SURFACE	CEILING	LENSED	120 V	40 VA	6254	4000K	80 CRI	NON				
T: TROFFER																						
T10	2x4 RECESSED LED TROFFER	COOPER/METALUX	24FP	48" x 24" x 3"			STL	WHT	PWD	RECESSED	CEILING	LENSED	120 V	40 VA	4556	4000K	80 CRI	DIM10				
T20	1x4 RECESSED LED TROFFER	COOPER/METALUX	14FP	48" x 12" x 3"			STL	WHT	PWD	RECESSED	CEILING	LENSED	120 V	40 VA	4226	4000K	80 CRI	DIM10				
T30	2x2 RECESSED LED TROFFER	COOPER/METALUX	22FP	24" x 24" x 3"			STL	WHT	PWD	RECESSED	CEILING	LENSED	120 V	40 VA	4465	4000K	80 CRI	DIM10				
W: WALL PACK																						
W10	LED WALL PACK	COOPER/LUMARK	XTOR	4" x 10" x 10 1/4"			ALU	BLK	PWD	WALL		LENSED	120 V	40 VA		4000K	80 CRI	NON				
W20	LED WALL PACK	COOPER/MCGRAW-HILL	GWC	4" x 10" x 10 1/4"			ALU	BLK	PWD	WALL	10' A.F.G.	LENSED	120 V	40 VA	5008	4000K	80 CRI	NON				FORWARD THROW DISTRIBUTION
X: EXIT SIGNAGE																						
X10	RUNNING MAN EXIT SIGN	STANPRO	RMSE	2" x 12" x 7 1/2"			STL	WHT	PWD	WALL/SD	8' A.F.F.		120 V	2 VA								SELF POWERED
X20	RUNNING MAN EXIT SIGN CW REMOTE HEADS	STANPRO	PRMS12-2L	2" x 12" x 7 1/2"			STL	WHT	PWD	WALL/SD	8' A.F.F.		120 V	2 VA								SELF POWERED, PROVIDE COMPLETE WITH 2x2.5W LED LAMPS

LIGHTING FIXTURE SCHEDULE NOTES:

- PRODUCTS OTHER THAN THOSE LISTED WILL BE CONSIDERED. OTHER PRODUCTS MUST BE CAPABLE OF PROVIDING THE SAME LEVEL OF PERFORMANCE, INCLUDING CONTROL CAPACITY, AS THE BASIS OF DESIGN PRODUCTS NAMED. SUBMIT PRODUCT DATA IN ACCORDANCE WITH THE 'LIGHTING' SECTION OF THE ELECTRICAL SPECIFICATIONS.
- ALL INTERIOR LIGHTING FIXTURES SHALL HAVE A MINIMUM CRI OF 80. EXTERIOR FIXTURES SHALL HAVE A MINIMUM CRI OF 70. WHENEVER A CRI OF 80+ OR HIGHER IS CALLED FOR IN THE SCHEDULE, A R9 VALUE OF +50 SHALL ALSO BE PROVIDED.
- ALL LED DRIVERS SHALL BE FREE OF NOTICEABLE FLICKER AS DETERMINED BY THE OWNER AND/OR CONSULTANT. DIMMING DRIVERS SHALL PROVIDE SMOOTH AND CONTINUOUS DIMMING. ANY LED DRIVER THAT PRODUCES NOTICEABLE FLICKER SHALL BE REPLACED BY THE LUMINAIRE MANUFACTURER FREE OF CHARGE.
- UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL HAVE INTEGRAL 0-10V DIMMABLE DRIVERS WITH A DIMMING RANGE OF 100% TO 10% MINIMUM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE PRODUCTS SUPPLIED AND INSTALLED ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM AND/OR DEVICES. THE CONTRACTOR SHALL PROVIDE THE CONTROLS SYSTEM MANUFACTURER OF THEIR CHOICE WITH A COPY OF ALL DRAWINGS AND SCHEDULES.

HOUSING RATING TYPES: DRY - DRY LOCATION DAMP - DAMP LOCATION WET - WET LOCATION WET - WET LOCATION IPXX - IP XX RATING NEXX - NEMA XX RATING ZNX - ZONE XX RATING VAN - VANDAL RESISTANT	HOUSING FINISH TYPES: ANO - ANODIZED BRU - BRUSHED PNT - PAINTED PWT - POWDER COATED TEX - TEXTURED ALU - ALUMINUM	OPTIC TYPES: DIF - DIFFUSE OPTIC BAT - BATWING SPX - SPOT OPTIC XX DEGREES TYPX - OUTDOOR TYPE X OPTIC WW - WALL WASH ELI - ELLIPTICAL STPX - STEP LENS X"	DRIVER TYPES: NON - NON-DIMMING BI - 8-LEVEL OUTPUT DIM1 - 0-10V 1% DIMMING OUTPUT DIM10 - 0-10V 10% DIMMING OUTPUT DALI - DALI BIOS - BIOS DMX - DIGITAL MULTIPLEX STL - STEEL REM - REMOTE	ACCESSORIES TYPES: AT - AUTO-TEST EM - UL924 EMERGENCY TRANSFER
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WIRING FOR MECHANICAL EQUIPMENT SCHEDULE																						
TAG	DESCRIPTION	LOCATION	NAME	NO.	ELECTRICAL			STARTER	CONTROL			INTERLOCK	MCC	MAINTENANCE REC	INTEGRAL LIT	F/A SHUTDOWN	REMARKS					
					VOLTAGE	PHASE	LOAD		WATTAGE	TYPE	LOCATION							LOCAL	ELECTRICAL	MECHANICAL	COMMUNICATION	TO
AC-1	AIR CONDITIONING UNIT				208 V	1	8.20 kW				TST											
CU-1	CONDENSING UNIT				208 V	1	6.85 kW				TST											
DHW-H-1	DOMESTIC HOT WATER HEATER				120 V	1	1.80 kW															
EF-1	EXHAUST FAN				208 V	1	1.87 kW				CP		MOT.D AMP	ELEC			PROVIDED WITH GAS DETECTION RELAY FOR EXHAUST FAN CONTROL- ONE CONTROLLER FOR ALL EF-1, EF-2, AND EF-3. INTERLOCK WITH FOUR GARAGE MOTORIZED DAMPERS.					
EF-2	EXHAUST FAN				208 V	1	1.87 kW				CP		MOT.D AMP	ELEC			PROVIDED WITH GAS DETECTION RELAY FOR EXHAUST FAN CONTROL- ONE CONTROLLER FOR ALL EF-1, EF-2, AND EF-3. INTERLOCK WITH FOUR GARAGE MOTORIZED DAMPERS.					
EF-3	EXHAUST FAN				208 V	1	1.87 kW				CP		MOT.D AMP	ELEC			PROVIDED WITH GAS DETECTION RELAY FOR EXHAUST FAN CONTROL- ONE CONTROLLER FOR ALL EF-1, EF-2, AND EF-3. INTERLOCK WITH FOUR GARAGE MOTORIZED DAMPERS.					
EF-4	EXHAUST FAN				600 V	3	2.70 kW				CP						PROVIDE LOCAL SWITCH FOR FAN. REFER TO MECHANICAL FOR SWITCH LOCATION					
EF-5	EXHAUST FAN				120 V	1	1/8HP	0.53 kW				TST					7 DAY TIMER SWITCH BY MECHANICAL. WIRING BY ELECTRICAL					
EF-6	EXHAUST FAN				120 V	1	1/4HP	0.70 kW				TCK					7 DAY TIMER SWITCH BY MECHANICAL. WIRING BY ELECTRICAL					
EF-7	EXHAUST FAN				120 V	1	1/4HP	0.27 kW									REVERSE ACTING THERMOSTAT PROVIDED BY MECH. WIRED BY ELECT. INTERLOCK WITH MOTORIZED DAMPER					
EF-8	EXHAUST FAN				120 V	1	1/8HP	0.40 kW									REVERSE ACTING THERMOSTAT PROVIDED BY MECH. WIRED BY ELECT.					
MD-1	MOTORIZED DAMPER				120 V	1	0.20 kW															
MD-2	MOTORIZED DAMPER				120 V	1	0.20 kW															
MD-3	MOTORIZED DAMPER				120 V	1	0.20 kW															
MD-4	MOTORIZED DAMPER				120 V	1	0.20 kW															
MD-5	MOTORIZED DAMPER				120 V	1	0.20 kW															
P-1	RECIRCULATION PUMP				120 V	1	0.37 kW					AQT										
RTU-4	ROOF TOP UNIT				208 V	3	9.72 kW					TST										
RTU-5	ROOF TOP UNIT				208 V	3	24.47 kW					TST										
TH-1	GAS FIRED RADIANT HEATER				120 V	1	0.12 kW					TST										
TH-2	GAS FIRED RADIANT HEATER				120 V	1	0.12 kW					TST										

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE NOTES:

- PROVIDE CONTROL VOLTAGE FROM A PROPER FUSED CONTROL CIRCUIT TRANSFORMER MOUNTED INTEGRALLY WITHIN THE CORRESPONDING DEVICE/STARTER.
- PROVIDE 'SPRING RETURN' TO OFF (0) FROM HAND (H) POSITION FOR SUPERVISED TEST PURPOSES ONLY.
- ON/OFF CONTROL SWITCH SHALL BE MOTOR RATED FOR LOAD.
- INTEGRATE WITHIN CONTROL DEVICE ENCLOSURE ALL STATUS CONTACTS FOR ALARM AND DEVICE STATE, ETC.
- INCLUDE THE FOLLOWING WITH ALL VARIABLE FREQUENCY DRIVES (VFD): ENCLOSURE APPROPRIATE FOR ENVIRONMENT, START/STOP PUSHBUTTON, HAND-OFF-AUTO, CONTROL SWITCH, DOOR MOUNTED HMI, DOOR MOUNTED DISCONNECT SWITCH, MANUALLY OPERATED VFD BYPASS, AUTOMATIC DRIVE BYPASS (FULL SPEED), LINE AND LOAD REACTORS, AND GROUND FAULT SENSING ALARM/TRIP. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- RATE ALL MECHANICAL EQUIPMENT FEEDERS TO MATCH THE OVERCURRENT PROTECTION DEVICE SPECIFIED.
- PROVIDE 5-15R DUPLEX RECEPTACLE AND DATA CONNECTION WITHIN MAIN BAS PANEL LOCATED IN MAIN MECHANICAL ROOM. PROVIDE 120 V POWER SUPPLY TO BAS CONTROL TRANSFORMERS LOCATED THROUGHOUT THE FLOOR SPACE. PROVIDE ONE CONNECTION FOR EACH 500 m2 (5,000 sq ft) OF NON-INDUSTRIAL SPACE. FINAL LOCATIONS TO BE DETERMINED BY CONTROLS CONTRACTOR DURING CONSTRUCTION.
- ELECTRICAL CONTRACTOR TO TERMINATE WIRING FOR I/O (AS NOTED) AT THE LOCAL BAS PANEL COMPLETE WITH SLACK CABLE FOR CONNECTION BY MECHANICAL CONTROLS CONTRACTOR.
- PROVIDE LED PILOT LIGHTS IN FRONT FACE OF ALL CONTROL DEVICES AS FOLLOWS:
 - GREEN-RUNNING
 - RED-FAILED/FAULT
 - AMBER-MANUAL
 * ABSENCE OF ANY ILLUMINATED LIGHT INDICATES MOTOR IS OFF AND/OR AVAILABLE FOR USE.
- PROVIDE ALL FANS AND MOTORS WITH LOCAL ISOLATION SWITCH (EVEN IF NOT SHOWN ON DRAWINGS).
- PROVIDE VFD RATED CABLES WITH BRAKE SIGNAL PAIR BETWEEN MECHANICAL EQUIPMENT AND ASSOCIATED VFD. PROVIDE DISCONNECT SWITCH COMPLETE WITH AUXILIARY CONTACTS WHEN MECHANICAL EQUIPMENT IS MOUNTED REMOTELY FROM ASSOCIATED VARIABLE FREQUENCY DRIVE.
- LOOSE STARTERS SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- LOCAL REMOTE CONTROL SHALL BE PROVIDED INTEGRAL WITH THE STARTER.
- LOCAL REMOTE CONTROL SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT A REMOTE LOCATION.
- MECHANICAL REMOTE CONTROL SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT A REMOTE LOCATION.

STARTER TYPES: MAN - MANUAL MAG - MAGNETIC CON - CONTACTOR VFD - VARIABLE FREQUENCY DRIVE CMB - COMBINATION SFT - SOFT STARTER SSS - SOLID STATE STARTER ZSP - TWO SPEED STARTER RVS - REDUCED VOLTAGE STARTER REV - REVERSING STARTER INT - INTEGRAL LOS - LOOSE	LOCAL CONTROL TYPES: HLS - HIGH LOW SELECTOR HOA - HAND-OFF-AUTO OOS - ON-OFF SELECTOR SSP - START/STOP PUSHBUTTONS HMI - HUMAN MACHINE INTERFACE	MECHANICAL REMOTE CONTROL TYPES: TST - THERMOSTAT BAS - BUILDING AUTOMATION SYSTEM CP - CONTROL PANEL FST - FIRESTAT AQT - AQUASTAT
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STARTER LOCATION TYPES: INT - INTEGRAL REM - REMOTE MCC - MOTOR CONTROL CENTRE
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WIRING FOR SPECIAL EQUIPMENT SCHEDULE										
TAG	DESCRIPTION	LOCATION	NAME	NO.	ELECTRICAL DATA			CONNECTION TYPE	MOUNTING HEIGHT	REMARKS
					VOLTAGE	PHASE	LOAD			
Owner Equipment Connection										
EQ-2	WHEEL BALANCER				220 V	1	3330 VA	DIRECT		
EQ-3	HYDRAULIC PRESS				TBC	1	TBC	DIRECT		
EQ-4	TIRE MACHINE				208 V	1	760 VA	DIRECT		
EQ-7	PLASMA CUTTER				220 V	1	9000 VA	DIRECT		
EQ-8	CHOP SAW				120 V	1	1440 VA	DIRECT		
EQ-9	MIG WELDER				TBC	1	TBC	DIRECT		
EQ-10	A/C R-1234 & MACHINE				120 V	1	1000 VA	DIRECT		
EQ-11	AIR A/C VACUUM PUMP & SCALE				TBC	1	TBC	DIRECT		
EQ-12	AIR COOL TECH A/C MACHINE				120 V	1	1440 VA	DIRECT		
EQ-13	SAND BLASTING UNIT				120 V	1	1000 VA	RECEPTACLE		
EQ-17A	AIR COMPRESSOR				208 V	3	7457 VA	DIRECT		
EQ-17B	AIR DRYER				120 V	1	1440 VA	DIRECT		
EQ-19A	PRESSURE WASHER				600 V	3	14914 VA	DIRECT		EQUIPMENT SUPPLIED WITH VFD AND LOCAL DISCONNECT BY MANUFACTURER
EQ-19B	PRESSURE WASHER HEATER				600 V	3	75000 VA	DIRECT		
EQ-22	CENTRAL VACUUM				208 V	3	7457 VA	DIRECT		CENTRAL VACUUM SYSTEM AND RELATED ELECTRICAL INSTALLATIONS TO BE INCLUDED IN TENDER AS A SEPARATE PRICE ITEM IN ITS ENTIRETY

ELECTRIC HEATER SCHEDULE																						
TAG	DESCRIPTION	MANUFACTURER	SERIES	ELECTRICAL CHARACTERISTICS					PHYSICAL CHARACTERISTICS					ACCESSORIES	REMARKS							
				VOLTS	WATTS	PH	TYPE	CONTROL	INTERLOCK	NOMINAL SIZE	RATING	MATERIAL	COLOUR			FINISH	TYPE	MOUNTING	HEIGHT			
EBH-1	BASEBOARD HEATER	OUELLET	OFM	120 V	1500 W	1	TST	INT	-	-	48"L x 2"W x 4"H	IP44	STL	WHT	PWD	SURFACE	-	-	-	-	-	TO BE INTERLOCKED WITH HVAC EQUIPMENT CONTROLS
EBH-2	BASEBOARD HEATER	OUELLET	OFM	120 V	1500 W	1	REM	REM	-	-	48"L x 2"W x 4"H	IP44	STL	WHT	PWD	SURFACE	-	-	-	-	-	TO BE INTERLOCKED WITH HVAC EQUIPMENT CONTROLS
EBH-3	BASEBOARD HEATER	OUELLET	OFM	120 V	1300 W	1	REM	REM	-	-	48"L x 2"W x 4"H	IP44	STL	WHT	PWD	SURFACE	-	-	-	-	-	TO BE INTERLOCKED WITH HVAC EQUIPMENT CONTROLS
FFH-1	FAN FORCED HEATER	OUELLET	OAC	208 V	3000 W	1	TST	INT	-	-	20"W x 4"D x 24"H	IP44	STL	WHT	PWD	RECESSED	4' A.F.F.	-	-	-	-	UH-1 TO BE COMPLETE WITH WALL MOUNTED THERMOSTAT. COORDINATE WITH MECHANICAL FOR THERMOSTAT LOCATION
UH-1	WALL MOUNTED UNIT HEATER	OUELLET	OASU	208 V	10000 W	3	REM	REM	-	-	17"L x 16"W x 12"H	IP44	STL	WHT	PWD	8' A.F.F.	WALL	-	-	-	-	UH-1 TO BE COMPLETE WITH WALL MOUNTED THERMOSTAT. COORDINATE WITH MECHANICAL FOR THERMOSTAT LOCATION

ELECTRIC HEATER SCHEDULE NOTES:

- PROVIDE ALL MOUNTING ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
 - PROVIDE ALL CONTROL TRANSFORMERS AS REQUIRED TO SUIT CONTROL SCHEME.
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| CONTROL TYPES:
W/O - WITHOUT CONTROL
TST - THERMOSTAT
REL - CONTROL RELAY
TIM - TIMER | CONTROL LOCATION:
REM - REMOTELY MOUNTED FROM UNIT (PROVIDE INTEGRAL RELAY AS REQUIRED)
INT - PROVIDED INTEGRAL WITH THE UNIT |
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| HOUSING RATINGS:
DRY - DRY LOCATION
DAMP - DAMP LOCATION
WET - WET LOCATION
OUT - IP65 MIN / COLD RATED
IPXX - IP XX RATING
NEXX - NEMA XX RATING
ZNX - ZONE X RATING | HOUSING MATERIAL |
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