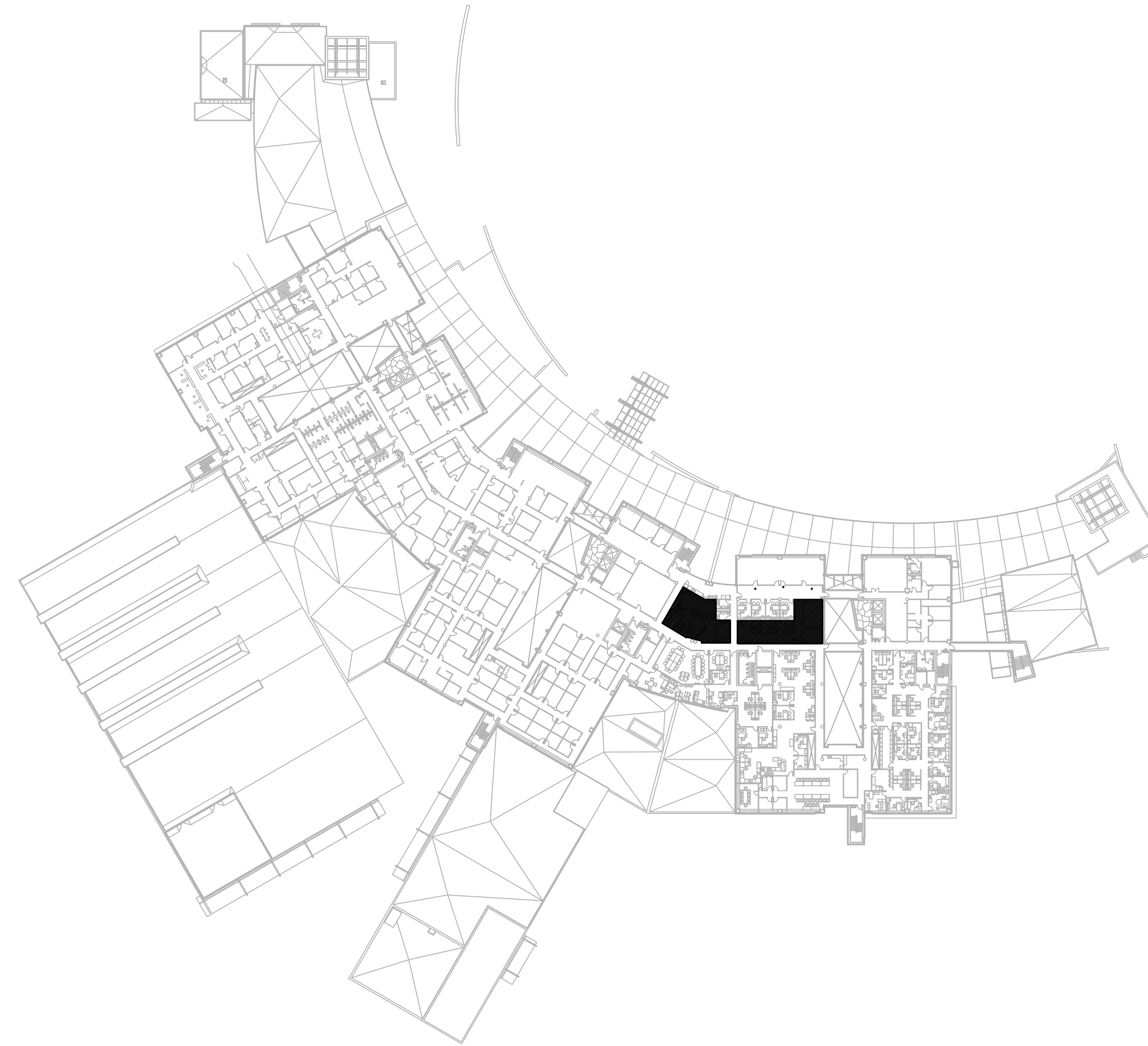


OPP HEADQUARTER COMMANDER OFFICE RENOVATION

PROJECT No. 1103395-274117
777 MEMORIAL AVENUE
ORILLIA, ONTARIO



 **KEY PLAN
AREA IN CONTRACT**


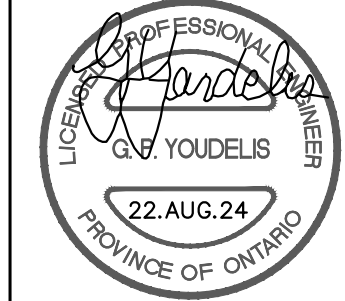
CONTENT	ISSUED FOR	DATE	FILE No.
MECHANICAL DRAWINGS	PERMIT/TENDER	AUGUST 22, 2024	AE-23301-DRAW-M001-M005-R00

DRAWING LIST			
DRAWING #:	DESCRIPTION	DRAWING SCALE:	PLOTTING SCALE:
AE-23301-DRAW-M001-R00	KEY PLAN, DRAWING LIST	N.T.S.	1'-0"=1'-0"
AE-23301-DRAW-M002-R00	MECHANICAL SPECIFICATION AND LEGEND	N.T.S.	1'-0"=1'-0"
AE-23301-DRAW-M003-R00	MECHANICAL SCHEDULE AND DETAIL	N.T.S.	1'-0"=1'-0"
AE-23301-DRAW-M004-R00	FIRE PROTECTION DEMOLITION AND NEW PLAN	1/8"=1'-0"	1'-0"=1'-0"
AE-23301-DRAW-M005-R00	HVAC DEMOLITION AND NEW LAYOUT	1/8"=1'-0"	1'-0"=1'-0"



GENERAL NOTES:
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No	Revisions	Date
R00	ISSUED FOR PERMIT/TENDER	2024-08-22
RP3	ISSUED FOR 99% REVIEW	2024-06-28
RP2	ISSUED FOR 66% REVIEW	2024-05-13
RP1	ISSUED FOR 33% REVIEW	2024-04-19

Orientation  Seal 

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(A)	A Detail No
(B)	B Sheet No where detailed

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Infrastructure Ontario

Ministry PSF Number
Project
**OPP HEADQUARTER
COMMANDER OFFICE
RENOVATION**
Location
**777 MEMORIAL AVENUE
ORILLIA, ONTARIO**
10 Project No **1103395-274117** Site No **N06689** Building No **B25370**
Client
COLLIER PROJECT LEADERS

Drawing Title
KEY PLAN, DRAWING LIST

Scale N.T.S.	Date 2024-04-03
Drawn by H.D.	Substantial Performance Date TBD
Designed by H.D.	Drawing No AE-23301-DRAW-M001-R00
Approved by Floor No G.P.Y. 3	of 5

CADD File NAME **AE-23301-DRAW-M001-M005-R00**

MECHANICAL SPECIFICATIONS

1. GENERAL
1.1. COMPLETE THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, C.S.A. STANDARDS, U.L.C., N.F.P.A., D.S.H.A. AND OTHER CODES AS REQUIRED.
1.2. WHEREVER THE WORDS "PROVIDE" OR "SUPPLY AND INSTALL" ARE USED, IT SHALL BE UNDERSTOOD TO MEAN "PROVIDE AND INSTALL, INCLUSIVE" OF ALL LABOUR, MATERIALS, INSTALLATION, TESTING, AND CONNECTIONS FOR THE ITEM TO WHICH IT REFERENCE.

1.35. PROVIDE ALL EXCAVATION AND BACKFILLING REQUIRED FOR MECHANICAL WORK.
1.36. PROVIDE ALL CONCRETE REQUIRED FOR MECHANICAL WORK.
1.37. IDENTIFY ALL PIPING WITH STENCILED LETTERS OR COLOUR CODES AND DIRECTIONAL ARROWS.
1.38. PROVIDE MANUFACTURER'S START-UP OF ALL MAJOR EQUIPMENT. MANUFACTURER REPRESENTATIVE TO PROVIDE WRITTEN CONFIRMATION THAT EQUIPMENT IS PROPERLY INSTALLED AND TESTED IN ACCORDANCE WITH MANUFACTURER'S REPRESENTATIVES.

ON SUPPLY SIDE OF EQUIPMENT.
1.16. PROVIDE REDUCED PRESSURE BACK FLOW PREVENTORS ON DOMESTIC WATER SUPPLY PIPING TO ALL EQUIPMENT. PROVIDE PRESSURE REDUCING VALVES AS REQUIRED.
1.17. PROVIDE ALL PLUMBING VENT PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. COORDINATE LOCATION OF NEW PLUMBING VENTS WITH ARCHITECTURAL DRAWINGS. ALL VENT PIPING SHALL BE CONCEALED WITHIN WALLS OR ABOVE CEILING. TERMINATE PLUMBING VENTS MINIMUM 1.0 M ABOVE, AND MINIMUM 3.5 M FROM ALL OPENABLE WINDOWS OR DOORS, AND AIR INTAKES.

8.1. APPLY ONE-PIECE MOULDED TYPE PVC JACKET TO ALL INSULATED PIPING SERVICES IN EXPOSED AREAS. USE SOLVENT WELD ADHESIVE COMPATIBLE WITH INSULATION TO SEAL LAP AND JOINTS. JACKETING TO BE PAINTED BY GENERAL TRADES.
9. TESTING, BALANCING, ADJUSTING AND COMMISSIONING
9.1. PROVIDE TESTING, BALANCING AND COMMISSIONING OF ALL SYSTEMS. COMMISSIONING SHALL INCLUDE PUTTING INTO SERVICE, ADJUSTING, CALIBRATING AND VERIFYING ALL SYSTEMS, BOTH NEW AND EXISTING.

LEGEND - HVAC
SYMBOL DESCRIPTION
SUPPLY AIR DUCT
SUPPLY AIR DUCT UP
SUPPLY AIR DUCT DOWN
RETURN/EXHAUST AIR DUCT UP
RETURN/EXHAUST AIR DUCT DOWN
ROUND DUCT UP
ROUND DUCT DOWN
ACOUSTICALLY LINED DUCTWORK
SILENCER
FLEXIBLE DUCT CONNECTION
FLEXIBLE DUCT COMPLETE WITH SPIN-ON
RETURN OR EXHAUST AIR DIFFUSER
EXISTING SQUARE CONE SUPPLY AIR DIFFUSER
SIDEWALL GRILLE
BALANCE DAMPER
BACKDRAFT DAMPER
MOTORIZED DAMPER
FIRE DAMPER
FIRE/SMOKE DAMPER
EXISTING TEMPERATURE SENSOR
EXISTING FAN POWERED VAV BOX
EXISTING LIGHT TROFFER DIFFUSER
EXISTING CEILING FAN
EXISTING FAN SPEED CONTROLLER
A-MAXIMUM AIR QUANTITY
B-MINIMUM AIR QUANTITY
C-VAV BOX SIZE
DIFFUSER OR GRILLE SIZE
AIR QUANTITY

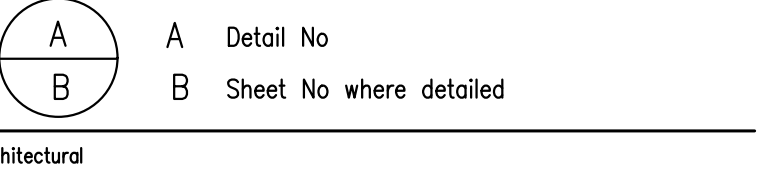
LEGEND - FIRE PROTECTION
SYMBOL DESCRIPTION
EXISTING FULLY RECESSED SPRINKLER HEAD
NEW FULLY RECESSED SPRINKLER HEAD
EXISTING FIRE HOSE CABINET



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Table with 3 columns: Item, Description, Date. Includes entries for R00, RP3, RP2, RP1 issued for permit/tender, 99% review, 66% review, 33% review.

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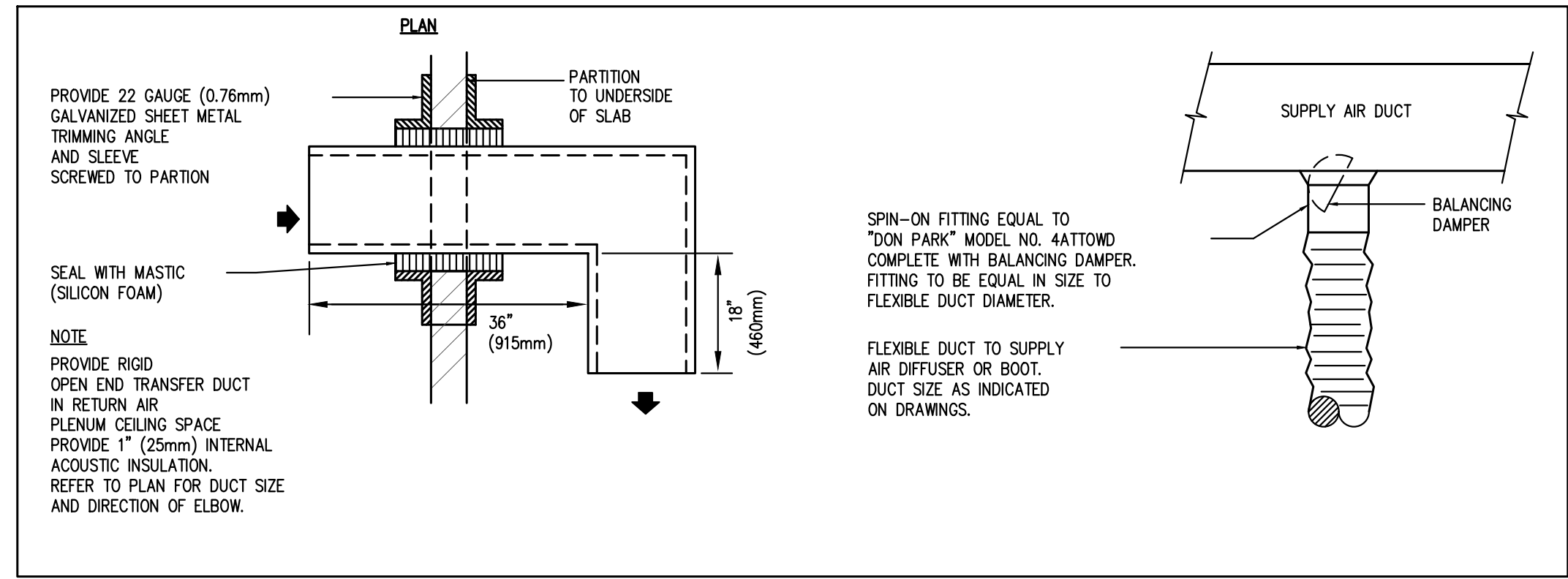
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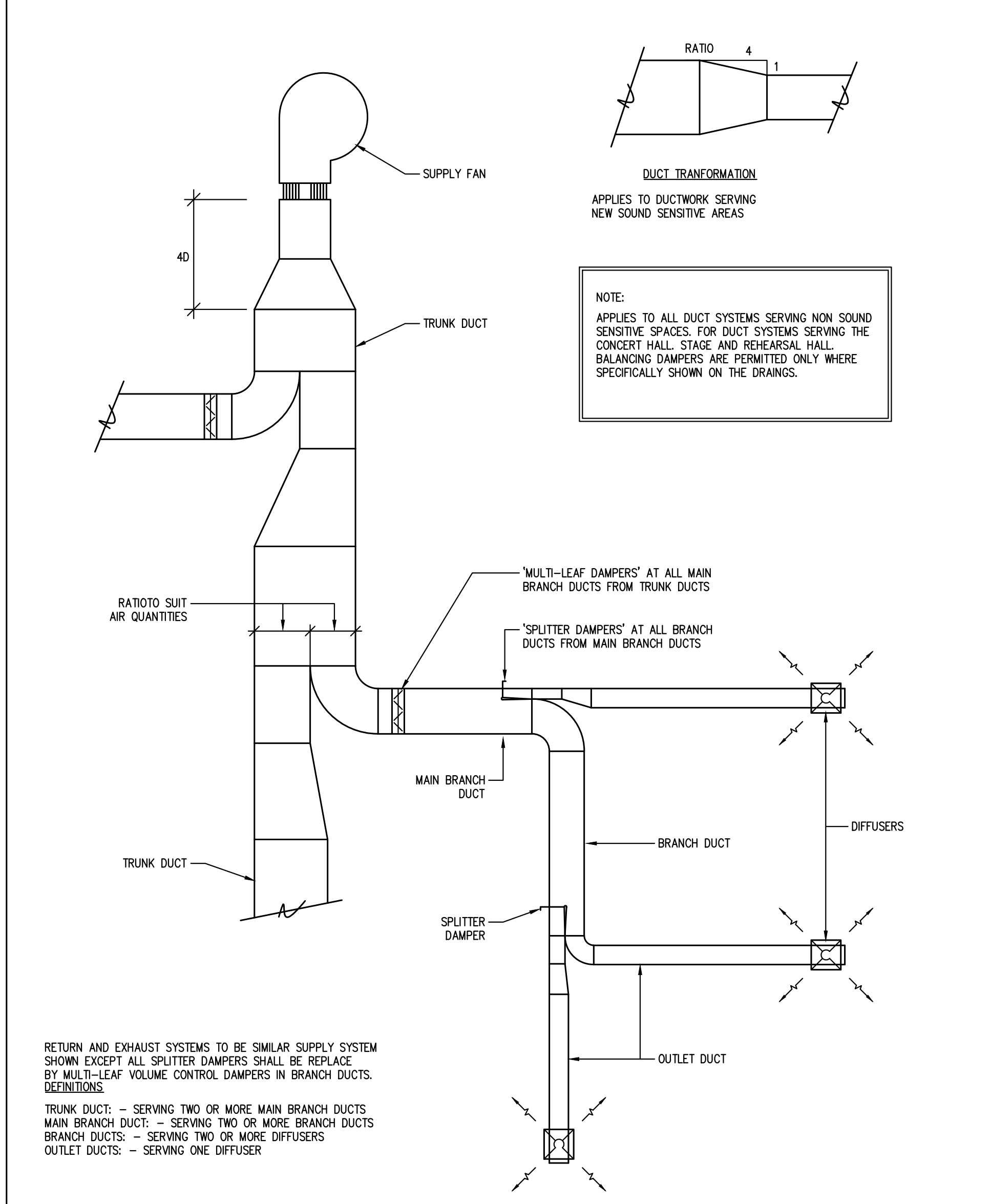
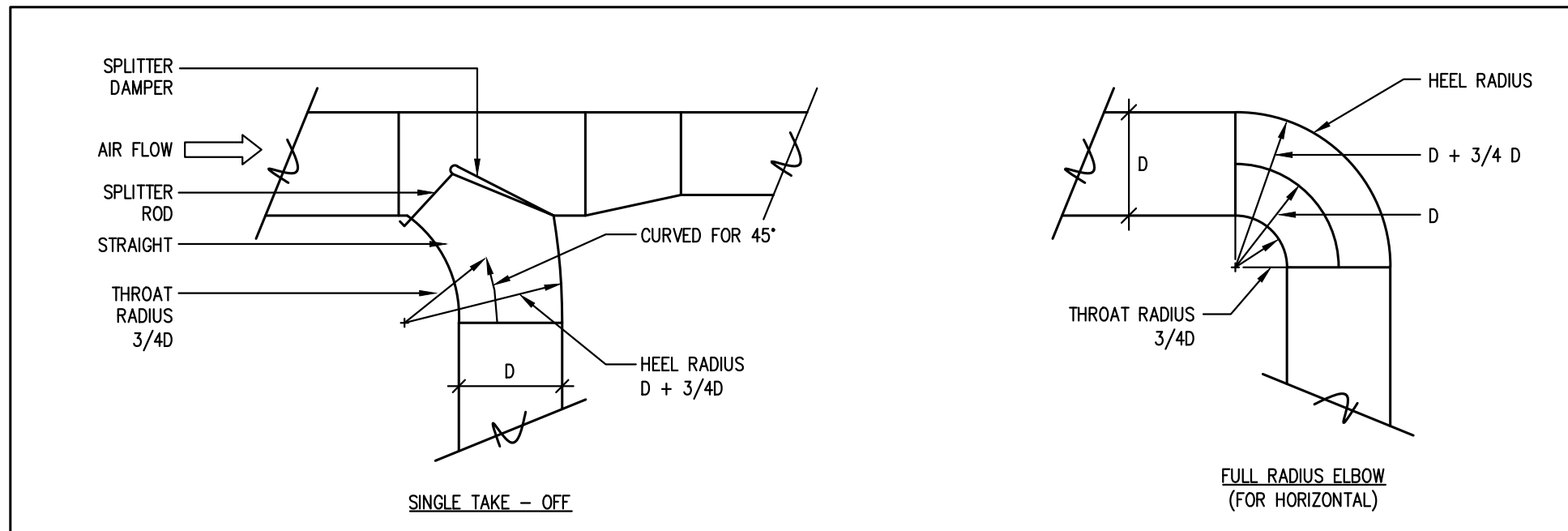
Infrastructure Ontario logo

Project: OPP HEADQUARTER
COMMANDER OFFICE
RENOVATION
Location: 777 MEMORIAL AVENUE
ORILLIA, ONTARIO
1103395-274117 N06689 B25370

Client: COLLIER PROJECT LEADERS
Drawing Title: MECHANICAL SPECIFICATION AND LEGEND
Scale: N.T.S. Date: 2024-04-03
Designed by: H.D. Drawing No: AE-23301-DRAW-M002-R00
Approved by: G.P.Y. 3 of 5
CADD File Name: AE-23301-DRAW-M001-M005-R00



2 TYPICAL TRANSFER DUCT AND SPIN-ON FITTING DETAILS
M003 N.T.S.



1 DUCTWORK FITTINGS AND BALANCING DAMPER DETAILS
M003 N.T.S.

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Orientation Seal

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A	Detail No
B	Sheet No where detailed

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Infrastructure Ontario

Ministry PSF Number

Project
**OPP HEADQUARTER
COMMANDER OFFICE
RENOVATION**

Location
**777 MEMORIAL AVENUE
ORILLIA, ONTARIO**

IO Project No: **1103395-274117** Site No: **N06689** Building No: **B25370**

Client
COLLIER PROJECT LEADERS

Drawing Title
**MECHANICAL SCHEDULE AND
DETAIL**

Scale N.T.S.	Date 2024-04-03
Drawn by H.D.	Substantial Performance Date TBD
Designed by H.D.	Drawing No AE-23301-DRAW-M003-R00
Approved by Floor No G.P.Y. 3	of 5
CADD File NAME: AE-23301-DRAW-M001-M005-R00	



1 FIRE PROTECTION DEMOLITION PLAN

M004 SCALE: 1/8"=1'-0"



2 FIRE PROTECTION NEW PLAN

M004 SCALE: 1/8"=1'-0"

GENERAL NOTES

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- CONTRACTOR TO COORDINATE WORK ON SITE WITH NEW MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES IN ORDER TO SUIT NEW INSTALLATION.
- PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.
- ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

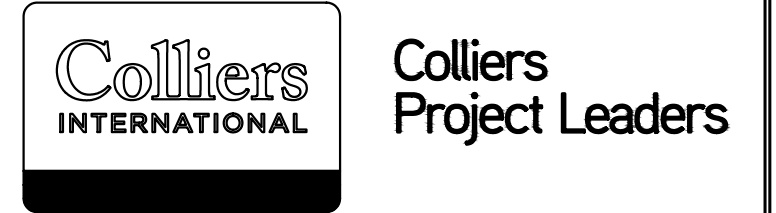
- EXISTING 100' LONG FIRE HOSE CABINET AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING WINDOW SPRINKLER AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL FOR ALL)
- EXISTING SPRINKLER HEAD AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING SPRINKLER HEAD AT THIS LOCATION TO BE REMOVED. CUT BRANCH PIPE BACK TO MAIN. (TYPICAL)
- REMOVE EXISTING FIRE EXTINGUISHER AND SAVE SAFELY ON SITE FOR RELOCATION.

GENERAL NOTES

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- ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.

DRAWING NOTES

- EXISTING 100' LONG FIRE HOSE CABINET AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING WINDOW SPRINKLER AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL FOR ALL)
- EXISTING SPRINKLER HEAD AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- PROVIDE NEW SPRINKLER HEAD AT THIS LOCATION AS SHOWN.
- RELOCATE EXISTING FIRE EXTINGUISHER TO THIS LOCATION AS SHOWN.



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RP2	ISSUED FOR 66% REVIEW	2024-05-13
RP1	ISSUED FOR 33% REVIEW	2024-04-19

Orientation

Seal

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- A Detail No
- B Sheet No where detailed

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Infrastructure Ontario

Ministry PSF Number

Project
**OPP HEADQUARTER
 COMMANDER OFFICE
 RENOVATION**

Location
**777 MEMORIAL AVENUE
 ORILLIA, ONTARIO**

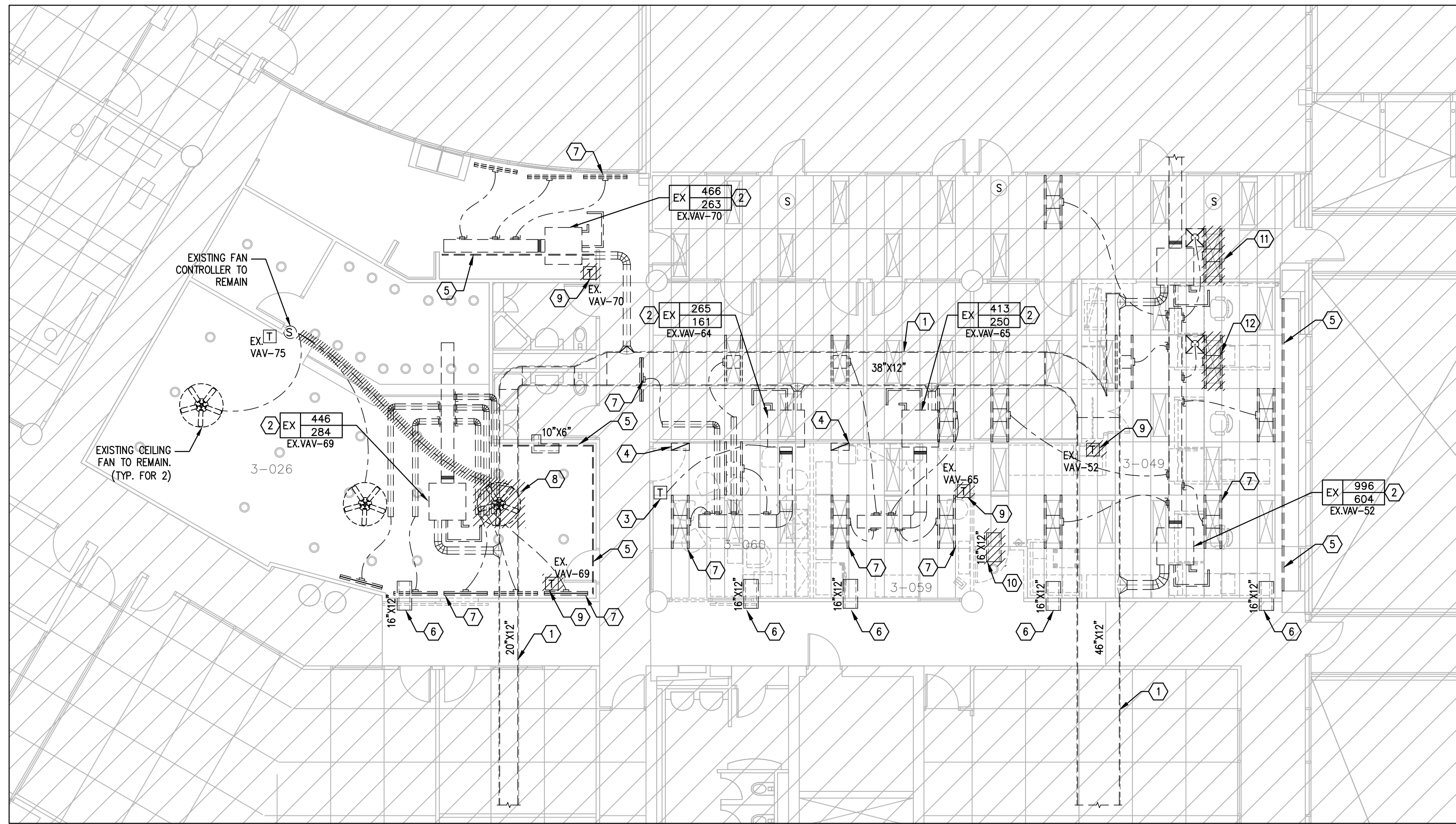
10 Project No Site No Building No
1103395-274117 N06689 B25370

Client
COLLIER PROJECT LEADERS

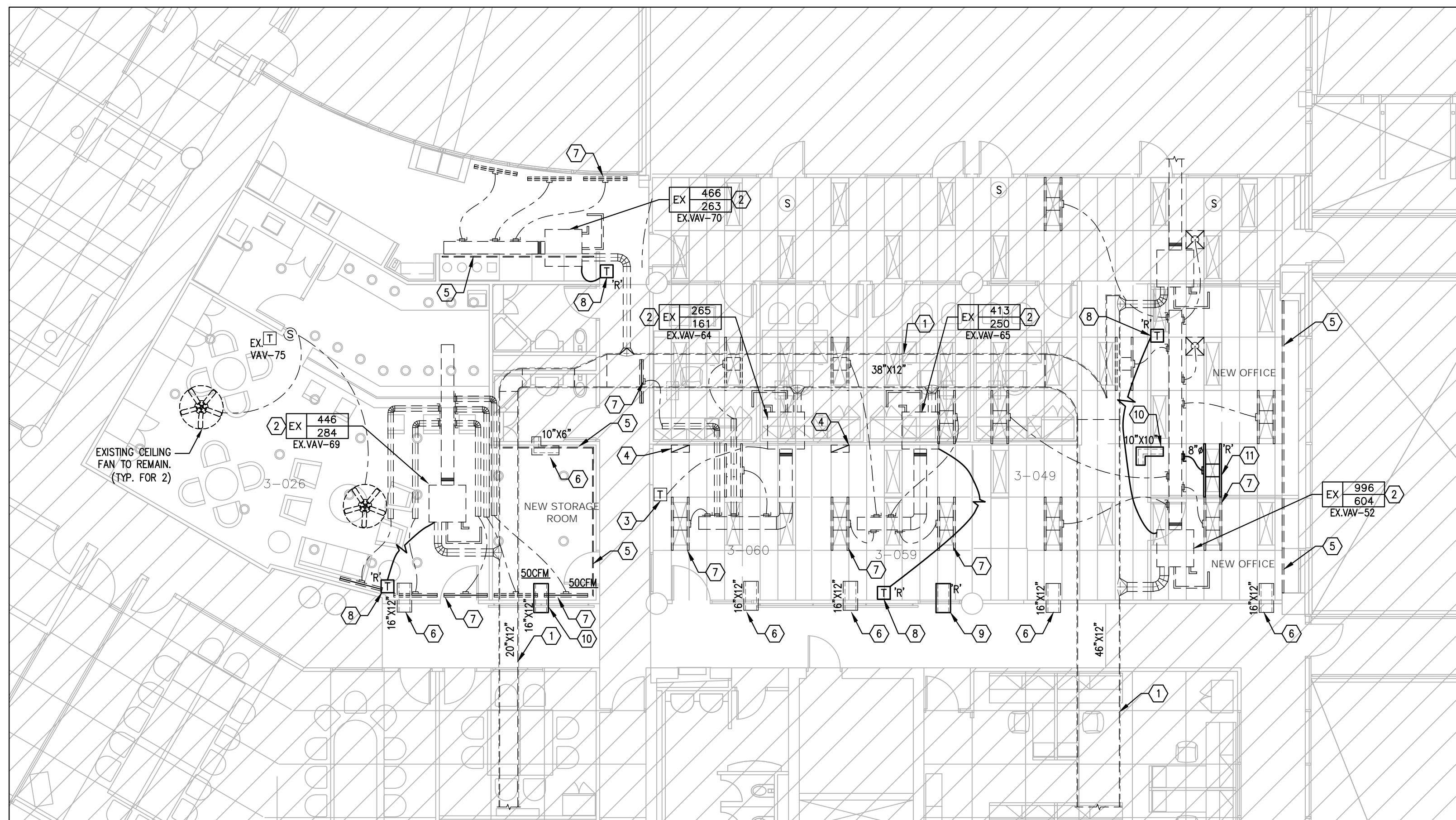
Drawing Title
**FIRE PROTECTION DEMOLITION
 AND NEW PLAN**

Scale 1/8"=1'-0"	Date 2024-04-03
Drawn by H.D.	Substantial Performance Date TBD
Designed by H.D.	Drawing No AE-23301-DRAW-M004-R00
Approved by Floor No G.P.Y. 3	of 5

CADD File NAME AE-23301-DRAW-M001-M005-R00



1 HVAC DEMOLITION PLAN
M005 SCALE: 1/8"=1'-0"



2 HVAC NEW LAYOUT
M005 SCALE: 1/8"=1'-0"

GENERAL NOTES

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- PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.

DRAWING NOTES

- EXISTING MAIN SUPPLY AIR DUCT AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING FAN POWERED VAV BOX AND ASSOCIATED SUPPLY AIR DUCTWORK TO REMAIN. (TYPICAL)
- EXISTING WALL MOUNTED TEMPERATURE SENSOR AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING RETURN AIR GRILLE AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING RETURN AIR SLOT AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING TRANSFER AIR DUCT AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING SUPPLY AIR DIFFUSER AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING CEILING FAN TO BE REMOVED AND HANDED OVER TO BUILDING MAINTENANCE STAFF. REMOVAL OF ASSOCIATED WIRING TO BE CARRIED OUT BY ELECTRICAL.
- REMOVE EXISTING TEMPERATURE SENSOR AND SAVE SAFELY ON SITE FOR RELOCATION.
- EXISTING TRANSFER AIR DUCT AND SAVE SAFELY ON SITE FOR RELOCATION.
- REMOVE EXISTING ABANDONED LIGHT TROFFER DIFFUSER AND HAND OVER TO BUILDING MAINTENANCE STAFF.
- REMOVE EXISTING LIGHT TROFFER DIFFUSER AND SAVE SAFELY ON SITE FOR RELOCATION. REMOVE ABANDONED FLEXIBLE AIR DUCT AND MAKE GOOD FOR FUTURE CONNECTION.



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Orientation

Seal

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- PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.

DRAWING NOTES

- EXISTING MAIN SUPPLY AIR DUCT AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING FAN POWERED VAV BOX AND ASSOCIATED SUPPLY AIR DUCTWORK TO REMAIN. AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE AS SHOWN FOR ASSOCIATED FAN POWERED VAV BOX, OTHERWISE NOTED. (TYPICAL)
- EXISTING WALL MOUNTED TEMPERATURE SENSOR AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING RETURN AIR GRILLE AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING RETURN AIR SLOT AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING TRANSFER AIR DUCT AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- EXISTING SUPPLY AIR DIFFUSER AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
- RELOCATE EXISTING TEMPERATURE SENSOR TO THIS LOCATION AS SHOWN. EXTEND WIRING AS REQUIRED.
- RELOCATE EXISTING TRANSFER AIR DUCT TO THIS LOCATION AS SHOWN.
- PROVIDE NEW ACOUSTICALLY LINED TRANSFER AIR DUCT. COORDINATE EXACT LOCATION ON SITE.
- RELOCATE EXISTING LIGHT TROFFER DIFFUSER TO THIS LOCATION. PROVIDE NEW FLEXIBLE AIR DUCT AND CONNECT TO EXISTING DUCTWORK C/W SPIN-ON FITTING.

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Ministry PSF Number

Project
**OPP HEADQUARTER
COMMANDER OFFICE
RENOVATION**

Location
**777 MEMORIAL AVENUE
ORILLIA, ONTARIO**

IO Project No 1103395-274117 Site No N06689 Building No B25370

Client
COLLIER PROJECT LEADERS

Drawing Title
**HVAC DEMOLITION AND
NEW PLAN**

Scale
1/8"=1'-0"

Date
2024-04-03

Drawn by
H.D.

Substantial Performance Date
TBD

Designed by
H.D.

Drawing No
AE-23301-DRAW-M005-R00

Approved by Floor No
G.P.Y. 3

of 5

CADD File NAME AE-23301-DRAW-M001-M005-R00