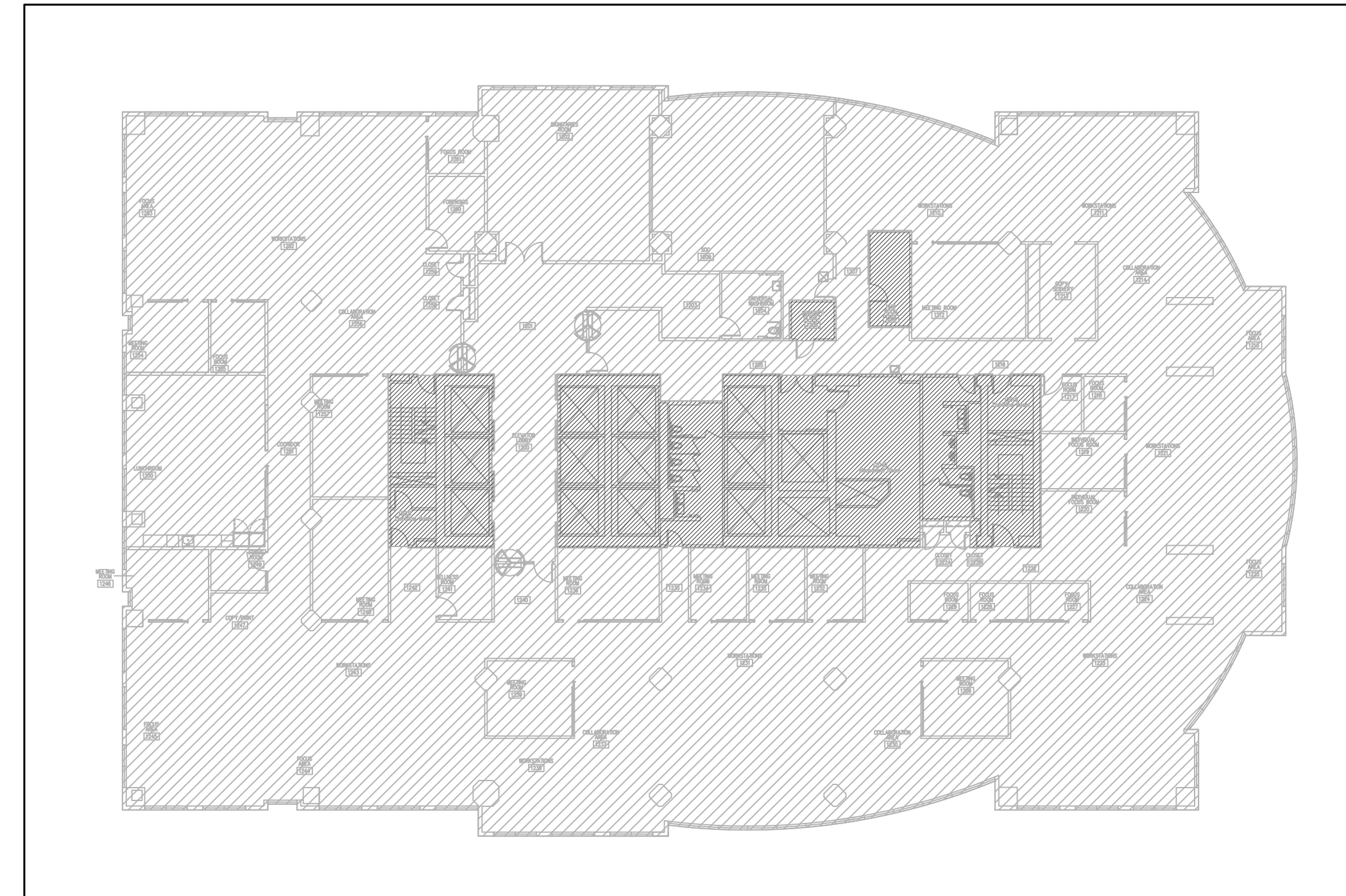


**55 JOHN STREET,  
TORONTO, ONTARIO**



**KEY PLAN**  
**AREA IN CONTRACT**

73A Mutual Street  
Toronto, Ontario M5B 2A9  
T: 416-217-0525  
mail@infra-structure.com



1. DO NOT SCALE DRAWINGS.
2. MATERIALS MAY NOT BE SUBSTITUTED WITHOUT DESIGNER'S WRITTEN APPROVAL.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SPECIFICATIONS AND DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO INFRASTRUCTURE INTERIOR DESIGN LTD. PRIOR TO CONSTRUCTION.
4. ALL DRAWINGS ARE PROPERTY OF INFRASTRUCTURE INTERIOR DESIGN LTD. THEY ARE TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND/OR ELECTRICAL) AS ISSUED AS THIS PROJECT'S DOCUMENTATION.



R01	RE-ISSUED FOR TENDER	2024-07-31
R00	ISSUED FOR PERMIT/TENDER	2024-07-24
RP3	95% REVIEW	2024-07-19
RP2	75% REVIEW	2024-06-27
RP1	50% REVIEW	2024-06-07
NO.	ISSUED	YY.MM.DD

Client:

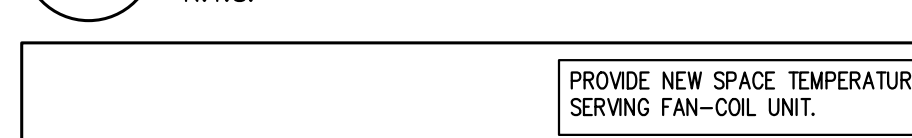
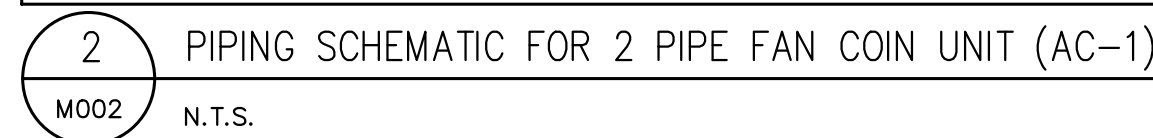
CITY OF TORONTO  
CYBER COMMAND CENTRE  
55 JOHN STREET  
12TH FLOOR  
TORONTO, ONTARIO  
M5V 3C6

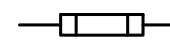

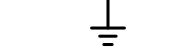

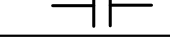
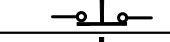
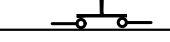

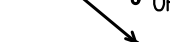

Drawing Title:	
<b>KEYPLAN, DRAWING LIST</b>	
Scale:	N.T.S.
Proj. No:	01595
Date:	ARP 22 2024
Designed By:	H.D.
Checked By:	G.P.Y.
Code:	24025
Drawing No:	<b>M001</b>
	ARCH E1 - 30x42
	 

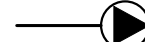

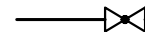
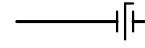
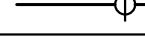
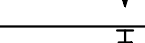
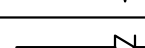
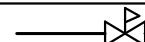

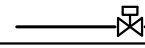
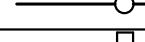
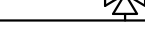
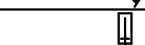
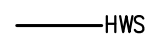
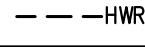
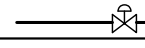
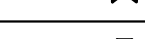
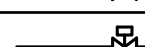
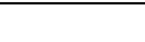
CONTENT	ISSUED FOR	DATE	FILE No.
MECHANICAL DRAWINGS	RE-ISSUED FOR TENDER	JULY 31, 2024	AE-24047-DRAW-M001-M007-R01

DRAWING LIST			
DRAWING NUMBER	DESCRIPTION	DRAWING SCALE:	PLOTTING SCALE:
M001	KEYPLAN, DRAWING LIST	N.T.S.	1'-0"=1'-0"
M002	MECHANICAL LEGEND, SCHEDULE, AND DETAIL	N.T.S.	1'-0"=1'-0"
M003	MECHANICAL DETAIL	N.T.S.	1'-0"=1'-0"
M004	PLUMBING AND FIRE PROTECTION DEMOLITION PLAN	1/8"=1'-0"	1'-0"=1'-0"
M005	PLUMBING AND FIRE PROTECTION NEW PLAN	1/8"=1'-0"	1'-0"=1'-0"
M006	HVAC DEMOLITION PLAN	1/8"=1'-0"	1'-0"=1'-0"
M007	HVAC NEW LAYOUT	1/8"=1'-0"	1'-0"=1'-0"





LEGEND – MOTOR CONTROL	
SYMBOL	DESCRIPTION
	FUSE
	TRANSFORMER
	GROUND
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
	MOMENTARY CONTACT SWITCH NORMALLY CLOSED
	MOMENTARY CONTACT SWITCH NORMALLY OPEN
	HAND-OFF-AUTO SELECTOR SWITCH
	AUTO
	INDICATES REMOTE CONNECTION
O/L	OVERLOAD
BAS	BUILDING AUTOMATION SYSTEM
FA	FIRE ALARM
FR	FIRE ALARM FAN SHUTDOWN RELAY
PS	PRESSURE SWITCH
PD	PRESSURE DIFFERENTIAL SWITCH
DES	DAMPER END SWITCH
HL	HIGH LIMIT TEMPERATURE DETECTOR
LL	LOW LIMIT TEMPERATURE DETECTOR
T	THERMOSTAT

LEGEND – HYDONIC	
SYMBOL	DESCRIPTION
	PUMP
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	PLUG VALVE
	DRAIN COCK
	CHECK VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	TWO-WAY CONTROL VALVE
	CIRCUIT BALANCING VALVE
	THREE-WAY CONTROL VALVE
	STRAINER
	THERMOCAMETER
— HWS —	HEATING SUPPLY
— HWB —	HEATING RETURN
	EXISTING PNEUMATIC CONTROL VALVE
	NEW PNEUMATIC CONTROL VALVE
	NEW 2-WAY ELECTRIC CONTROL VALVE
	NEW 3-WAY ELECTRIC CONTROL VALVE

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
	BALANCE DAMPER
	BACKDRAFT DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	HUMIDITY SENSOR
	EXISTING EQUIPMENT / PIPE TO BE REMOVED

CONDENSATE PUMP SCHEDULE						BASIS OF DESIGN: LITTLE GIANT EQUAL IN-MINI-LIME	
NO.	SERVICE	MODEL NO. ITEM NO.	CAPACITY	MOTOR		HP	NOTES:
				WATTS	VOLTAG		
CP-1	FAN COIL UNIT (FC-1)	PSCP15WS20T	1-2 GAL.	60 WATTS	115/1/60	1/50	REMOVABLE 3/8" BARBED CHECK VALVE, SAFETY SWITCH, REVERSIBLE TANK COVER WITH 3" INLET, THERMAL OVERLOAD PROTECTION AND TANK MOTOR COVER, AND VOLUTE WITH STAINLESS STEEL SHAFT, 15' LIFT CONDENSATE PUMP WITH TUBE & AMP.

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DIFFUSER SCHEDULE			BASIS OF DESIGN: PRICE EQUAL IN-TITUS, CARNES, NALOR
REF.	MODEL NO.	DESCRIPTION	REMARKS
A	SPD SERIES	20"x20" (500x500) PLAQUE FACE DIFFUSER, 360 DEGREE HORIZONTAL AIR PATTERN, ALUMINUM CONSTRUCTION, SUITABLE FOR T-BAR CEILING.	B12 WHITE COAT FINISH
B	RCD SERIES	ROUND CONE ADJUSTABLE DIFFUSER, STEEL CONSTRUCTION, FULLY ADJUSTABLE AIR PATTERN FROM HORIZONTAL TO VERTICAL C/W STEEL DAMPER, SUITABLE FOR EXPOSED DUCT MOUNTING.	B12 WHITE COAT FINISH
C	5200 SERIES	DOUBLE DEFLECTION SUPPLY AIR GRILLE, STEEL CONSTRUCTION, 3/4" SPACING BLADES GRILLE C/W OPPOSED BLADE DAMPER, FRONT GRILLE PARALLEL TO LONG DIMENSION, ADJUSTABLE BLADES, SUITABLE FOR DRYWALL MOUNTING OR SIDEWALL DUCT MOUNTING.	B12 WHITE COAT FINISH
D	50F SERIES	EGGCRATE RETURN AIR GRILLE, ALUMINUM, SUITABLE FOR DRYWALL AND T-BAR MOUNTING. SIZES AS INDICATED ON THE FLOOR PLANS	B12 WHITE COAT FINISH
E	5300 SERIES	45 SINGLE DEFLECTION EXHAUST/RETURN AIR GRILLE, STEEL CONSTRUCTION, C/W DAMPER AND 3/4" BLADES SPACING, BLADES PARALLEL TO LONG DIMENSION, ADJUSTABLE BLADES, SUITABLE FOR DRYWALL MOUNTING OR SIDEWALL MOUNTING.	B12 WHITE COAT FINISH
F	S05 SERIES	LINEAR SLOT AIR DIFFUSER C/W CUSTOM PLENUM BOX, 6" INLET ON TOP OF PLENUM, 1 SLOT WIDTH, 9A SUSPENDED CEILING BORDER FRAME, HANGER BRACKETS, MITRED ENDS, LENGTH AS INDICATED ON THE FLOOR PLAN.	B12 WHITE COAT FINISH

NEW VAV TERMINAL UNIT SCHEDULE							
VAV No:	AREA SERV	UNIT SIZE	INLET SIZE (IN)	BOX SETTING AIR FLOW (CFM)	MIN. AIRFLOW (CFM)	ATTENUATOR	CONTROL PACKAGE
NEWVAV-47	DIGITARIES 1202	VAV-12	12#	1,250	600	Y	DDC HEATING/COOLING CHANGEOVER W. TEMP. SENSOR
NEWVAV-48	SOC 1209	VAV-12	12#	1,250	600	Y	DDC HEATING/COOLING CHANGEOVER W. TEMP. SENSOR

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL PRESSURE INDEPENDENT TERMINAL VAV UNIT C/W CONTROL, TRANSDUCER, DISCONNECT SWITCH, ALL OTHER NECESSARIES AND 3 FEET LONG ATTENUATOR. REFER TO DRAWINGS FOR VAV MAXIMUM AND MINIMUM AIR FLOW SETTING. BASIS OF DESIGN: EH. PRICE SCD. 120V/PH. EQUAL AIR FLOW, TILUS.

CONTROL CONTRACTOR TO PROVIDE CONTROL, THERMOSTATS AND SENSORS, MODULATING ACTUATOR AND WIRING FOR SUPPLIED DEVICES. INSTALL AND PROGRAM CONTROLS. CONTROL SYSTEM SHALL INCLUDE WALL MOUNTED TEMPERATURE SENSORS, DUCT MOUNTED TEMPERATURE SENSORS, ELECTRONIC MODULATING CONTROL PACKAGE AND CONTROL TRANSFORMER. INTERFACE VAV BOX TO BAS. PROVIDE ALL GRAPHICS, COMMISSIONING, WIRING, ETC. AS REQUIRED.

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**ALGA**  
ALGAL ENGINEERING LTD.  
CONSULTING ENGINEERS  
515 Consumers Road, Suite 100  
Scarborough, Ontario, M2J 4Z2  
T: 416-484-0707 | F: 416-484-0168 | [Enquiry@algal.ca](mailto:Enquiry@algal.ca)



Client:

CITY OF TORONTO  
CYBER COMMAND CENTRE  
55 JOHN STREET  
12TH FLOOR  
TORONTO, ONTARIO  
M5V 3C6

Drawing Title:	
<b>MECHANICAL LEGEND, SCHEDULE, AND DETAIL</b>	
Scale:	N.T.S.
Proj. No:	01595
Date:	ARP.22.2024
Designed By:	H.D.
Checked By:	G.P.Y.
Code:	24025
Drawing No:	MCCO



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Corporate Real Estate Management  
Project Management Office  
Metro Hall, Toronto, ON  
MSV 3C6



ALGA ENGINEERING LTD.  
CONSULTING ENGINEERS  
415 Commerce Road, Suite 100  
Toronto, Ontario, M2J 4Z2  
1-416-484-0207 | 416-949-0188 | E: info@alga.ca



R01	RE-ISSUED FOR TENDER	2024-07-31
R00	ISSUED FOR PERMIT/TENDER	2024-07-24
RP3	95% REVIEW	2024-07-19
RP2	75% REVIEW	2024-06-27
RP1	50% REVIEW	2024-06-07
NO	ISSUED	YY.MM.DD

Client:  
**CITY OF TORONTO**  
**CYBER COMMAND CENTRE**  
**55 JOHN STREET**  
**12TH FLOOR**  
**TORONTO, ONTARIO**  
**M5V 3C6**

Drawing Title:  
**MECHANICAL DETAIL**

Scale: **N.T.S.**  
Proj. No: **01595**  
Date: **ARP.22.2024**

Designed by: **H.D.**

Checked by: **G.P.Y.**

Code: **24025**

Drawing No:

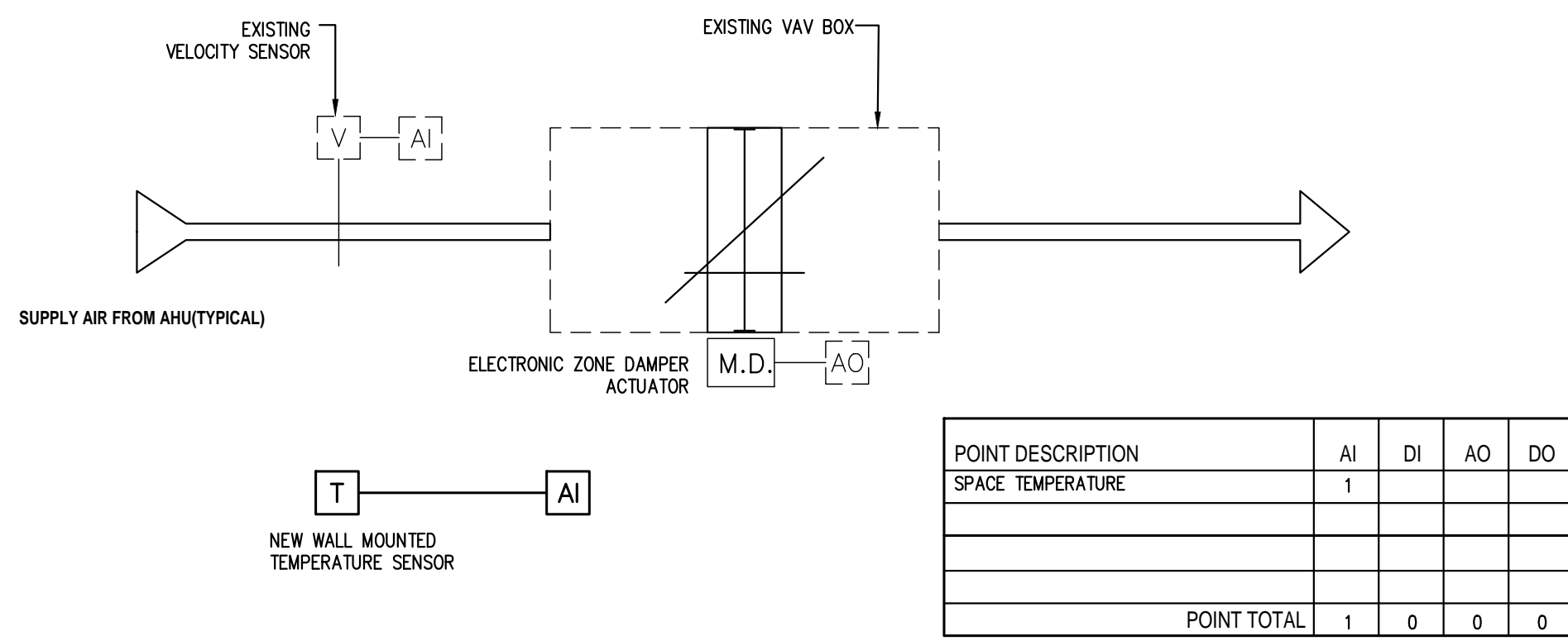
**M003**

ARCHIT - 30042

Cadfile Name: R02AE.24047-DRAW-A001-M003-R01

- PROVIDE AND INSTALL STEP-DOWN TRANSFORMER FOR VAV BOX CONTROL WORK. CONNECT TO THE NEAREST JUNCTION BOX.
- PROVIDE ALL GRAPHICS, COMMISSIONING, WIRING, ETC AS REQUIRED.

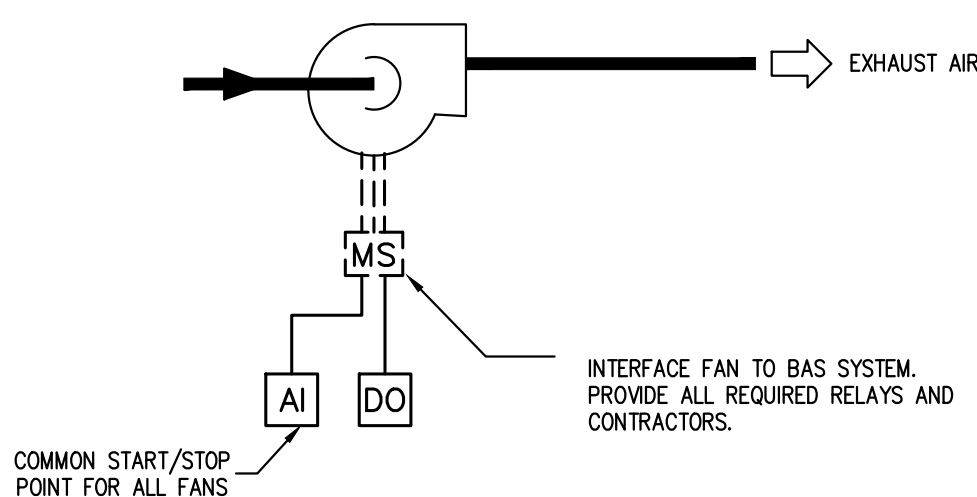
EXISTING VAV BOX  
ASSEMBLY



POINT DESCRIPTION	AI	DI	AO	DO
SPACE TEMPERATURE	1			
DAMPER CONTROL (MODULATING)			1	
VELOCITY SENSOR	1			
POINT TOTAL	1	0	0	0

8 VAV TERMINAL UNIT – CONTROL SCHEMATIC (EX.VAV-45)  
M003 N.T.S.

KITCHEN EXHAUST FAN

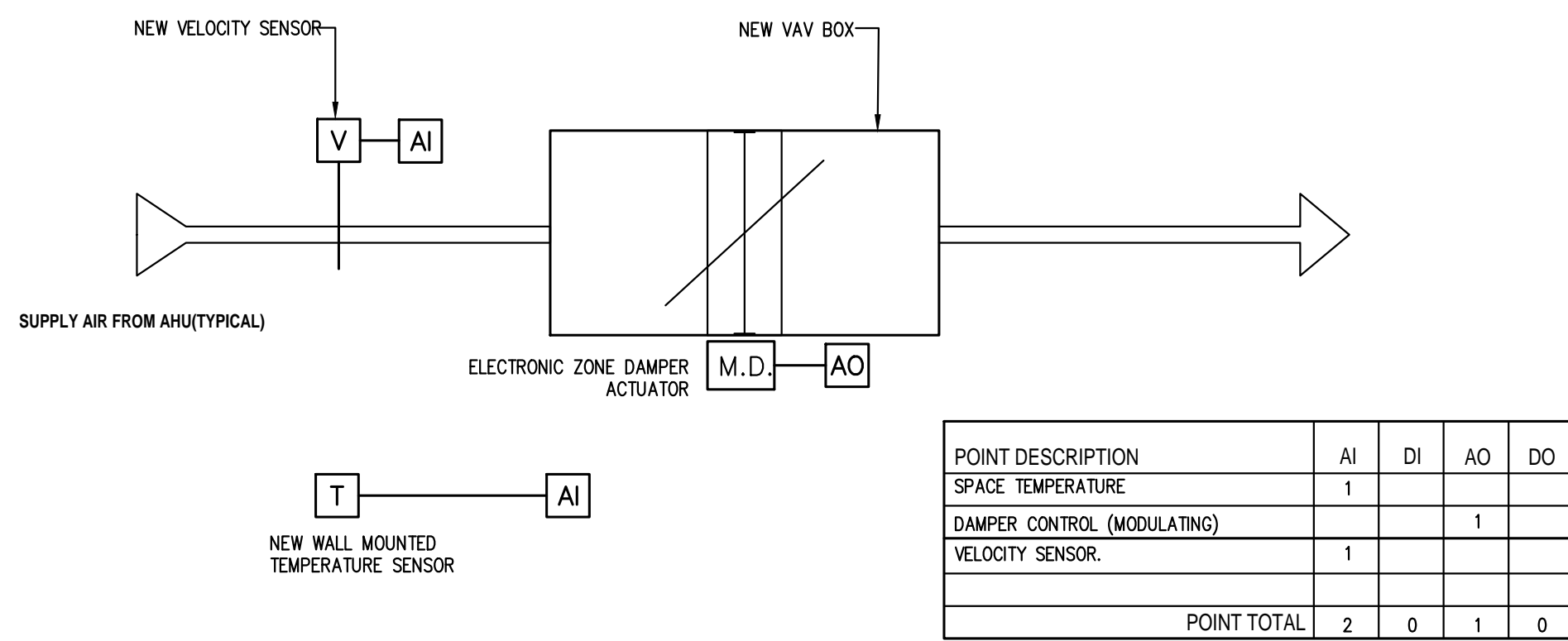


POINTS DESCRIPTION	AI	DI	AO	DO	REMARKS
SUPPLY FAN (START/STOP/STATUS)	1			1	COMMON START/STOP POINT FOR ALL FANS
TOTAL	1			1	

9 EXHAUST FAN CONTROL SCHEMATIC (EF-1)  
M003 N.T.S.

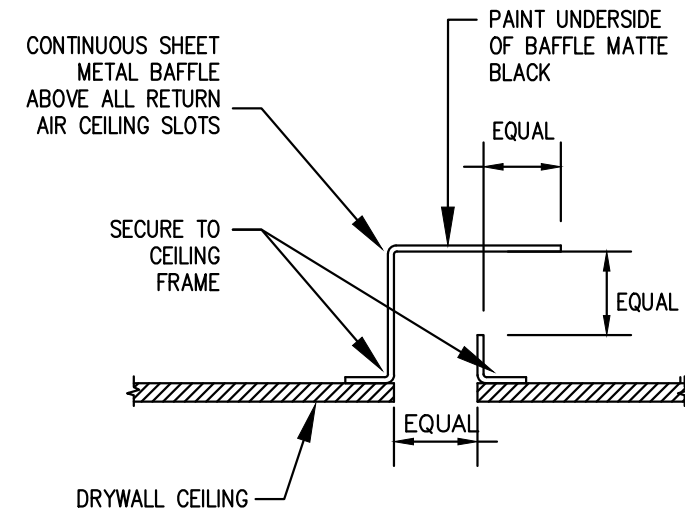
- PROVIDE NEW DDC CONTROLLER, DAMPER ACTUATOR, AND WALL MOUNTED TEMPERATURE SENSOR AND INTERFACE TO BAS.
  - PROVIDE AND INSTALL STEP-DOWN TRANSFORMER FOR VAV BOX CONTROL WORK. CONNECT TO THE NEAREST JUNCTION BOX. REFER TO ELECTRICAL DRAWINGS FOR NEW JUNCTION BOX LOCATIONS.
  - PROVIDE ALL GRAPHICS, COMMISSIONING, WIRING, ETC AS REQUIRED.
- TYPICAL FOR NEW VAV BOXES. REFER TO NEW VAV BOX SCHEDULE

NEW VAV BOX  
ASSEMBLY

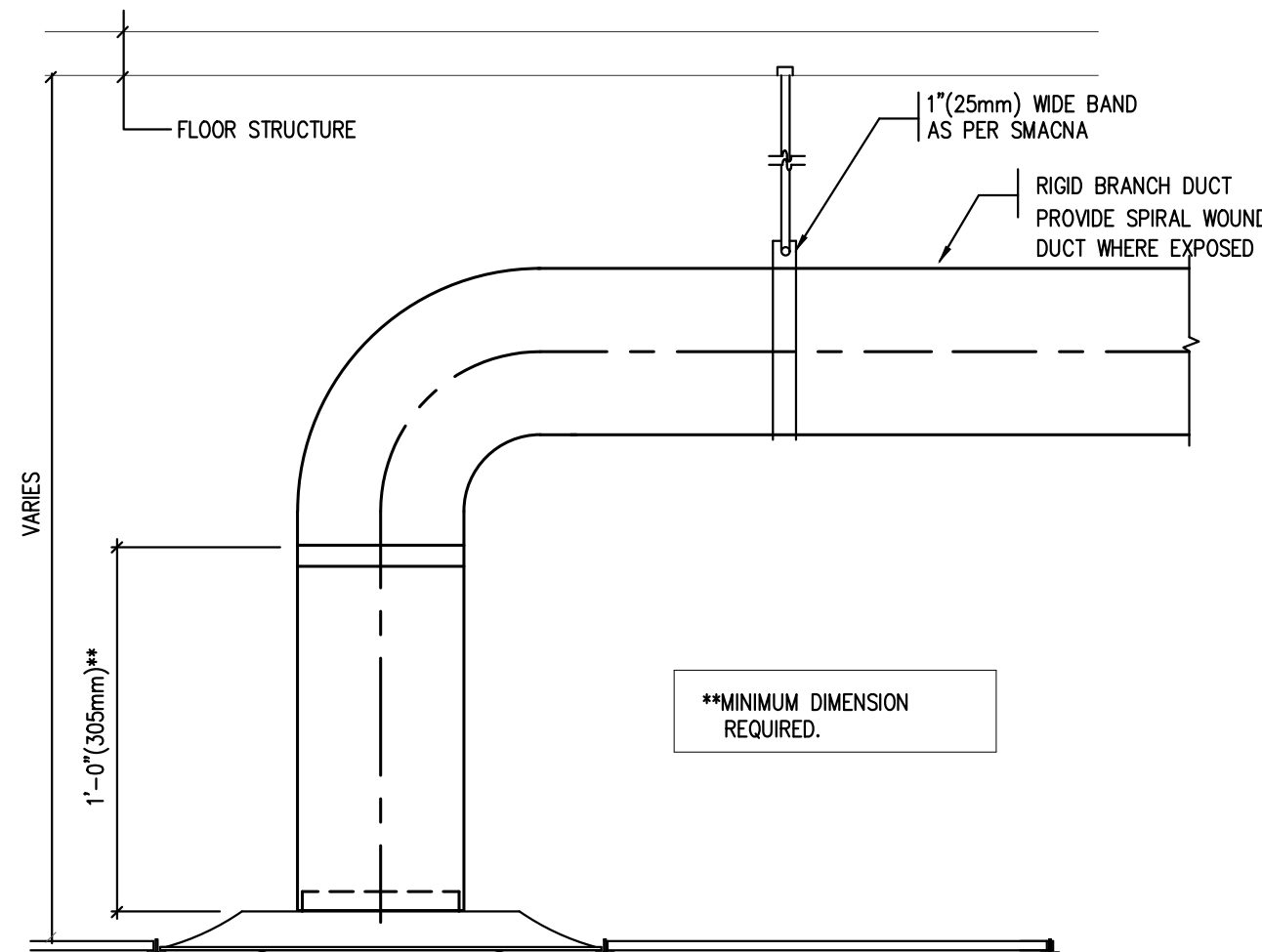


POINT DESCRIPTION	AI	DI	AO	DO
SPACE TEMPERATURE	1			
DAMPER CONTROL (MODULATING)			1	
VELOCITY SENSOR	1			
POINT TOTAL	2	0	1	0

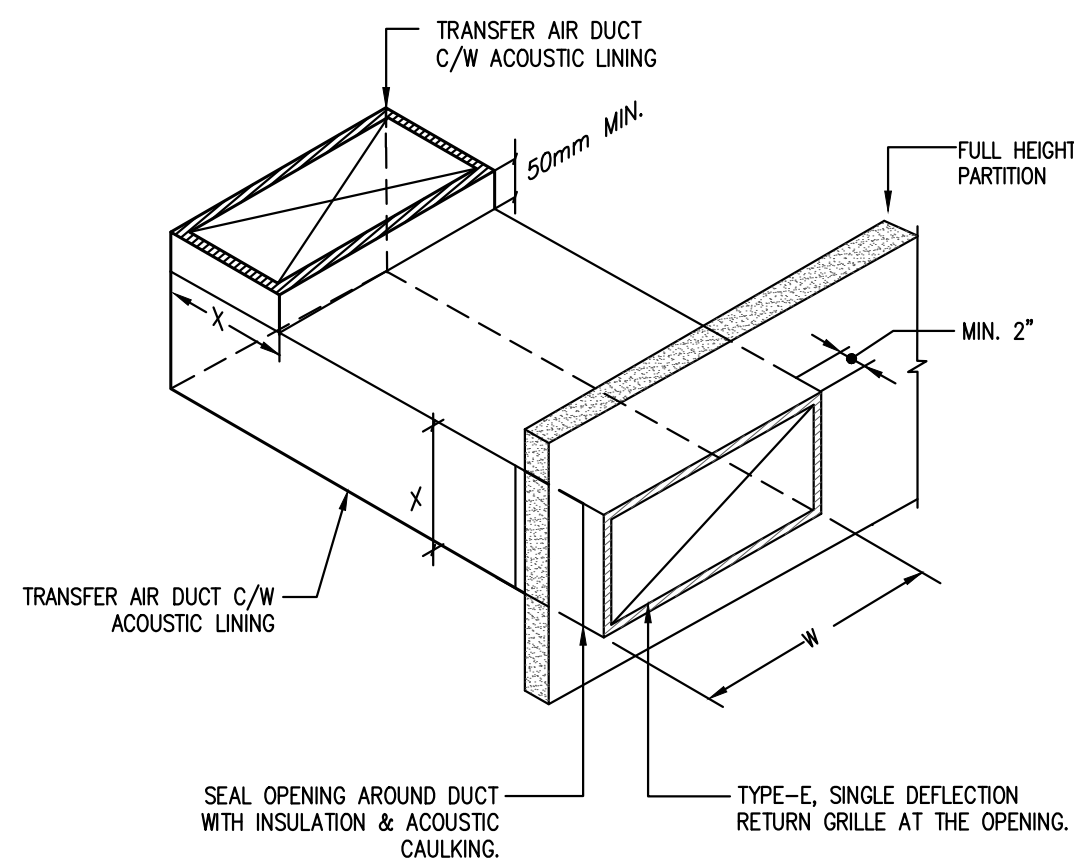
10 VAV TERMINAL UNIT – CONTROL SCHEMATIC (NEW.VAV-47 & NEW.VAV-48)  
M003 N.T.S.



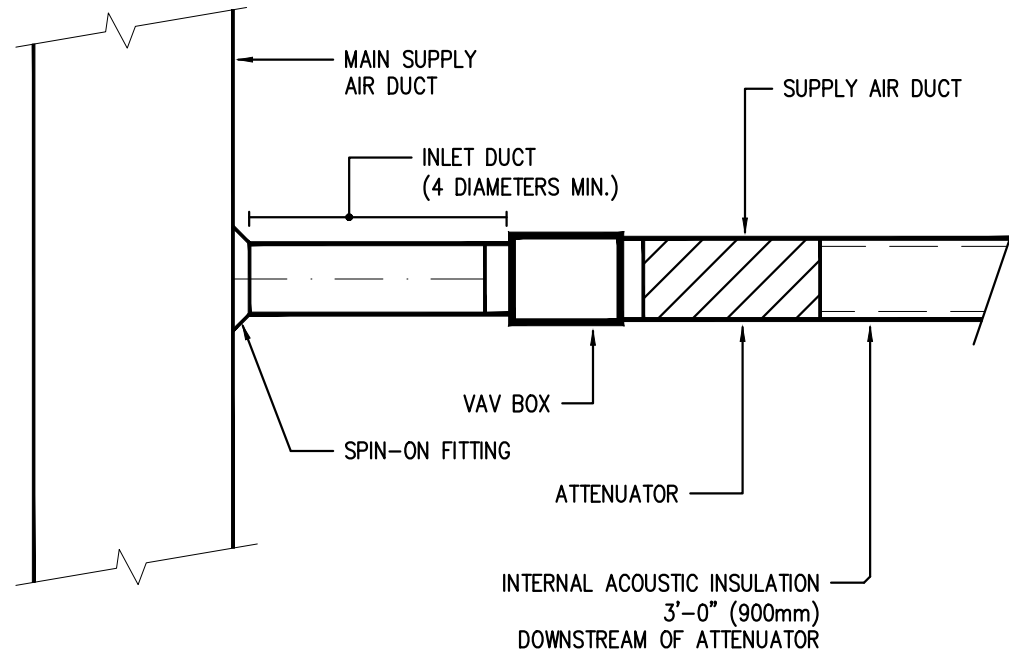
11 DETAIL OF LINEAR SLOT RETURN WITH SHEET METAL  
M003 N.T.S.



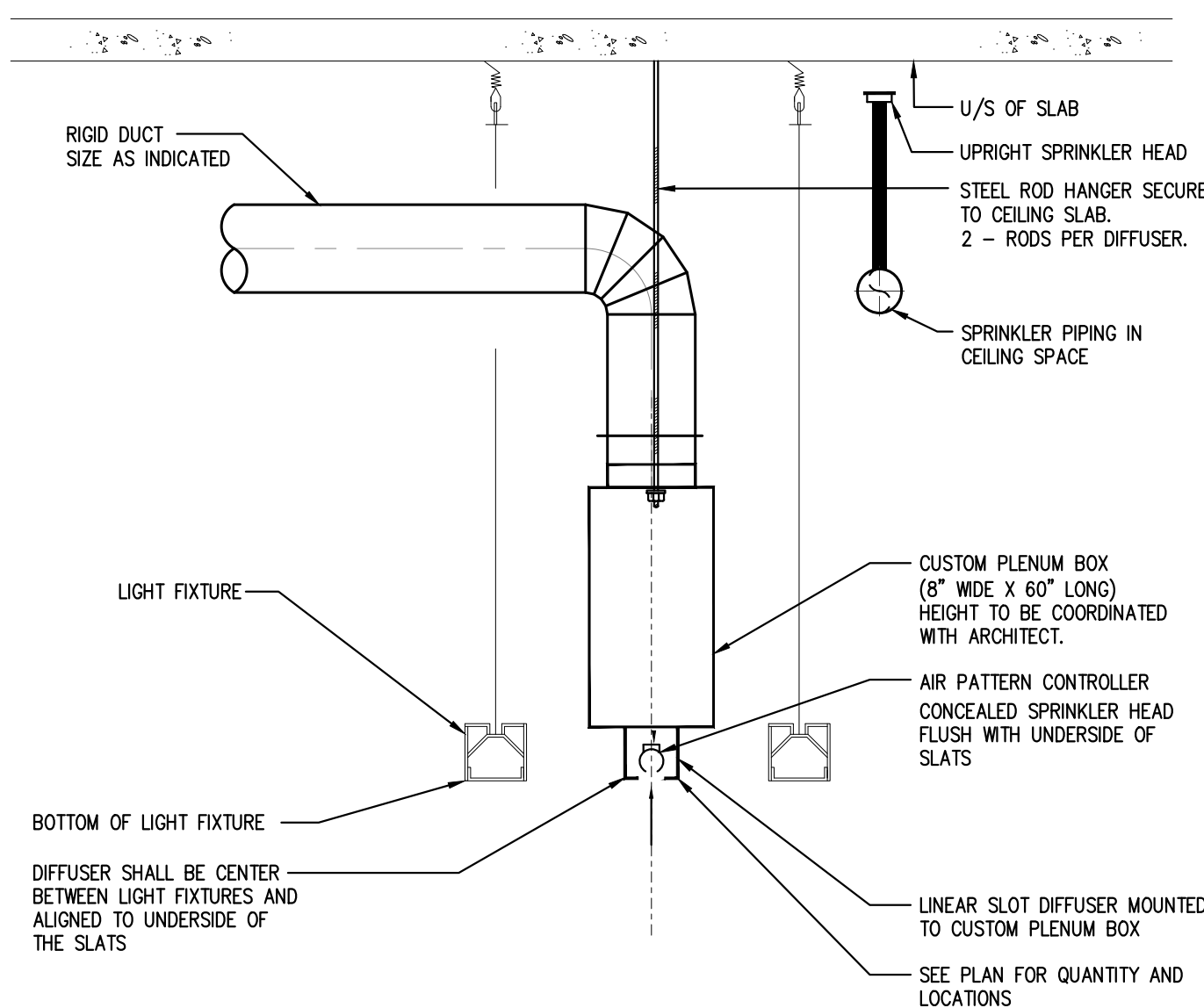
4 TYPICAL ROUND DIFFUSER & RIGID DUCT CONNECTION  
M003 N.T.S.



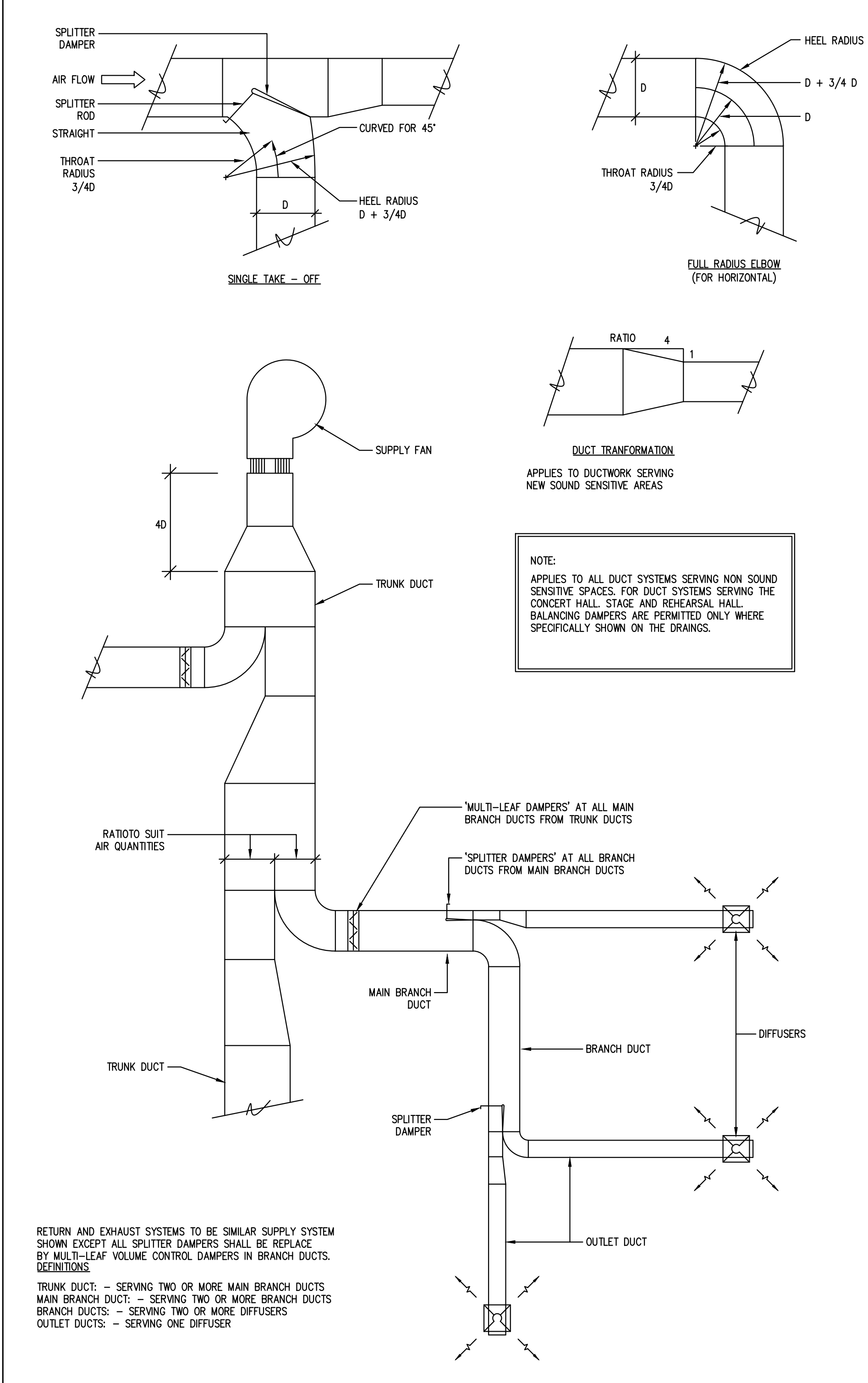
5 ACOUSTIC TRANSFER AIR DUCT INSTALLATION DETAIL – SOC AREA  
M003 N.T.S.



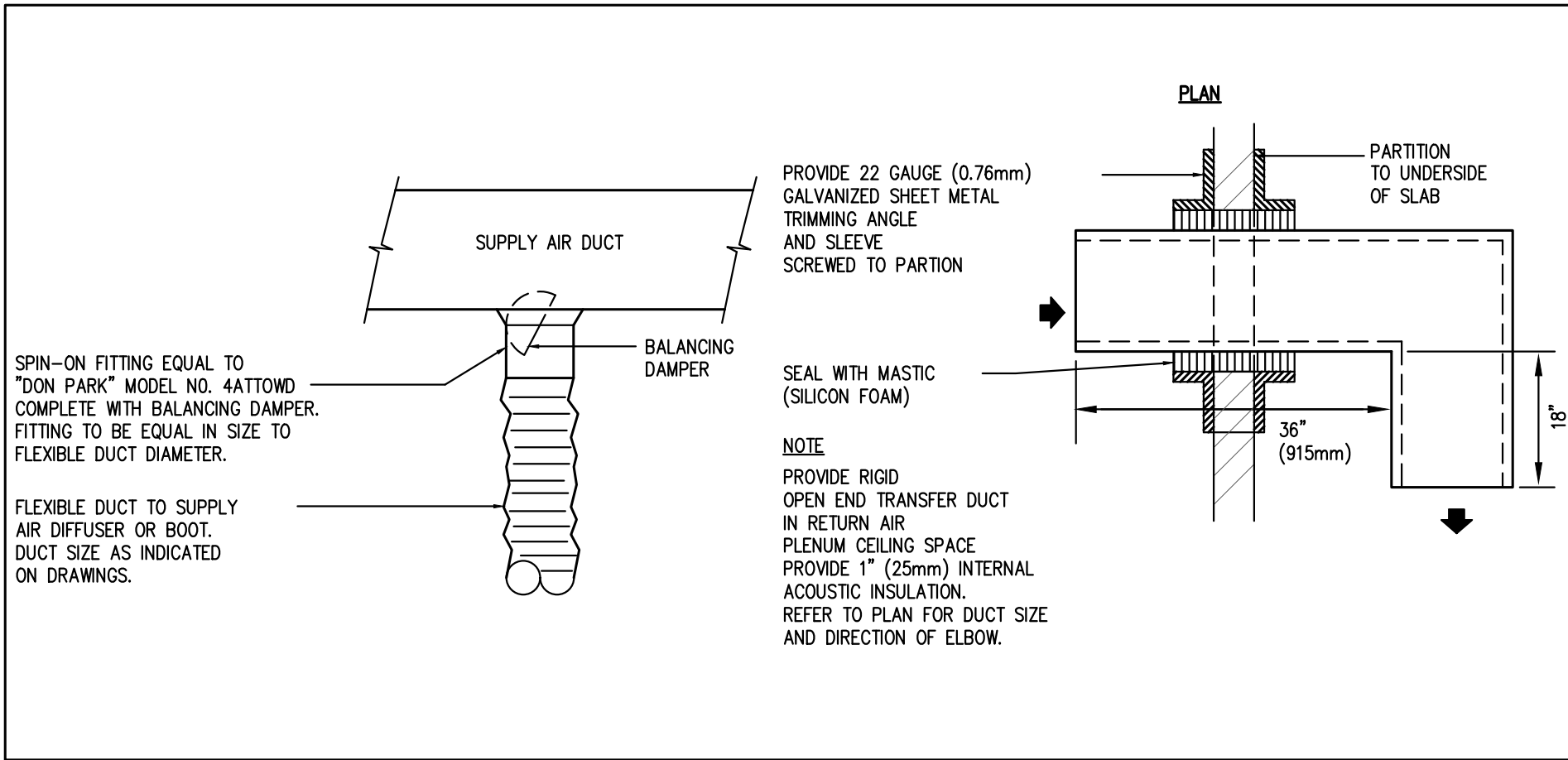
6 VARIABLE AIR VOLUME BOX DETAIL  
M003 N.T.S.



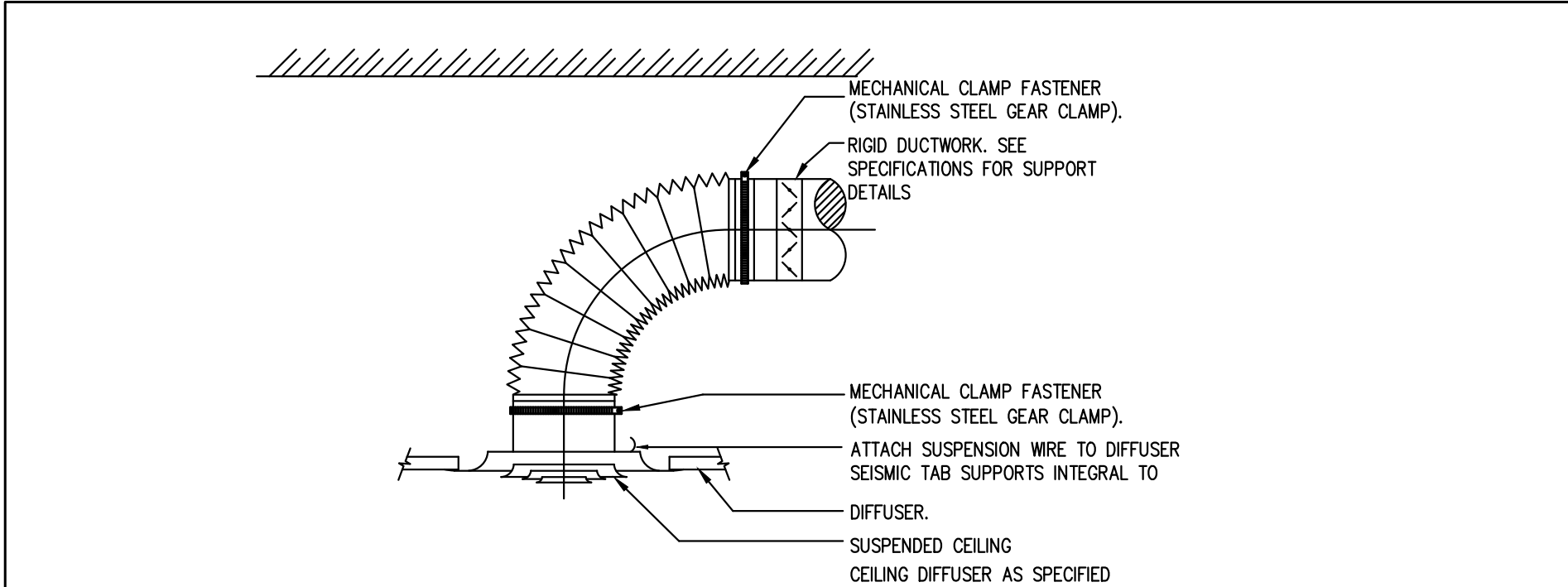
7 DETAIL OF LINEAR SLOT DIFFUSER  
M003 N.T.S.



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



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



3 TYPICAL DIFFUSER & FLEXIBLE DUCT CONNECTION DETAIL  
M003 N.T.S.



NOTES:

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Corporate Real Estate Management  
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MSV 3C6



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CONSULTING ENGINEERS  
115 Commerce Road, Suite 100  
Toronto, Ontario, M2J 4Z2  
T: 416-484-0201 F: 416-484-0208 E: info@alga.ca

GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION.
- ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND / OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
- CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
- PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.
- ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.
- ALL PLUMBING WORK SHALL BE COMPLETED AS PER LATEST OBC PART 7.
- CONTRACTOR TO REWORK EXISTING PLUMBING PIPING AS REQUIRED TO SUIT TO NEW PLUMBING FUTURE.
- FIRE SPRINKLER WORK SHALL BE PERFORMED BY LANDLORD'S APPROVED CONTRACTOR.
- X-RAY AND SCANS MUST BE CONDUCTED FOR ALL CUTTING AND CORING, APPROVED BY LANDLORD. STRUCTURAL ENGINEER SHALL REVIEW THE X-RAY SCANNING PRIOR TO COMMENCING WORKS.

DRAWING NOTES

- EXISTING FIRE HOSE CABINET TO REMAIN. (TYPICAL FOR ALL)
- EXISTING DRINKING FOUNTAIN AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING SPRINKLER HEAD TO REMAIN. SPRINKLER HEAD COVER PLATE TO BE REMOVED TO ALLOW FOR CEILING TILE REPLACEMENT AND REINSTALL IN NEW CEILING. (TYPICAL)
- EXISTING PLUMBING FIXTURE IN UNIVERSAL WASHROOM TO REMAIN. (TYPICAL)
- REMOVE EXISTING FIRE EXTINGUISHER AND SAVE SAFELY ON SITE FOR RELOCATION. REFER TO NEW PLAN FOR LOCATION.
- EXISTING SPRINKLER HEAD TO BE REMOVED. CUT SPRINKLER BRANCH PIPE BACK TO MAIN AND MAKE PIPING GOOD FOR FUTURE CONNECTION.
- EXISTING SINK AT THIS LOCATION TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CW & HW LINES AND SAN. VENT BACK TO MAIN RISER. REMOVE SAN. DRAIN AND PATCH AND REPAIR FLOOR OPENING AS REQUIRED.
- EXISTING CONDENSATE PUMP AND DRAIN LINE TO BE REMOVED IN ITS ENTIRETY.
- CONTRACTOR TO REMOVE DOWNSTREAM PORTION OF PLUMBING STACK FOR RELOCATION. TEMPORARILY CAP ALL PIPING IN CEILING SPACE AND MAKE PIPING GOOD FOR FUTURE CONNECTION. CONTRACTOR SHALL VERIFY EXACT PIPING SIZE ON SITE. PATCH AND REPAIR FLOOR OPENINGS AS REQUIRED.



R01	RE-ISSUED FOR TENDER	2024-07-31
R00	ISSUED FOR PERMIT/TENDER	2024-07-24
RP3	95% REVIEW	2024-07-19
RP2	75% REVIEW	2024-06-27
RP1	50% REVIEW	2024-06-07
NO	ISSUED	YY.MM.DD

Client:  
**CITY OF TORONTO**  
**CYBER COMMAND CENTRE**  
**55 JOHN STREET**  
**12TH FLOOR**  
**TORONTO, ONTARIO**  
**M5V 3C6**

Drawing Title:  
**PLUMBING AND FIRE**  
**PROTECTION DEMOLITION**  
**PLAN**

Scale: 1/8"=1'-0"

Proj. No: 01595

Date: ARP.22.2024

Designed By: H.D.

Checked By: G.P.Y.

Code: 24025

Drawing No:

**M004**  
ARCH ET - 30042





NOTES:

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Corporate Real Estate Management  
Project Management Office  
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GENERAL NOTES

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- ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND / OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
- CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
- PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.
- ALL SPRINKLER WORK SHALL BE DONE AS PER NFPA 13.
- ALL PLUMBING WORK SHALL BE COMPLETED AS PER LATEST OBC PART 7.
- ALL LOW VOLTAGE WIRING TO ELECTRONIC FAUCETS AND VALVES BY MECHANICAL CONTRACTOR.
- CONTRACTOR TO REWORK EXISTING PLUMBING PIPING AS REQUIRED TO SUIT TO NEW PLUMBING FIXTURE.
- FIRE SPRINKLER WORK SHALL BE PERFORMED BY LANDLORD'S APPROVED CONTRACTOR.
- X-RAY AND SCANS MUST BE CONDUCTED FOR ALL CUTTING AND CORING, APPROVED BY LANDLORD. STRUCTURAL ENGINEER SHALL REVIEW THE X-RAY SCANNING PRIOR TO COMMENCING WORKS.

DRAWING NOTES

- EXISTING FIRE HOSE CABINET TO REMAIN. (TYPICAL FOR ALL)
- EXISTING DRINKING FOUNTAIN AT THIS LOCATION AS SHOWN TO REMAIN.
- EXISTING SPRINKLER HEAD TO REMAIN. (TYPICAL)
- PROVIDE NEW SPRINKLER HEAD AT THIS LOCATION AS SHOWN. EXTEND AND MODIFY SPRINKLER BRANCH PIPE TO SUIT TO NEW LOCATION. (TYPICAL)
- EXTEND AND MODIFY EXISTING PLUMBING STACK TO ACCOMMODATE NEW PLAN. DROP PLUMBING STACK AT THIS APPROX. LOCATION AS SHOWN AND CONNECT TO RISERS IN CEILING OF FLOOR BELOW. CONTRACTOR TO PROVIDE ALL NECESSARY PIPING OFFSETS AND COORDINATE EXACT TE-IN POINT ON SITE. ALLOW FOR CUTTING AND PATCHING OF CEILING ON FLOOR BELOW AS NEEDED.
- PROVIDE NEW KITCHEN SINK AT THIS LOCATION AS SHOWN AND CONNECT TO NEW CW & HW LINES C/W THERMAL INSULATION. NEW DRAIN LINE DOWN AND TO BE CONNECTED TO SANITARY DRAIN CONNECTION IN CEILING OF FLOOR BELOW. VENT PIPE UP INSIDE WALL AND TO BE CONNECTED TO EXISTING VENT SYSTEM AS SHOWN.
- PROVIDE NEW DOMESTIC HOT WATER RECIRCULATION PIPE AND CONNECT TO EXISTING C/W THERMAL INSULATION. PROVIDE SHUT-OFF AND BALANCING VALVES AS REQUIRED.
- PROVIDE NEW CONDENSATE PUMP. CONDENSATE DRAIN LINE TO BE TERMINATED OVER EXISTING JANITOR SINK AS SHOWN. COORDINATE EXACT ROUTING ON SITE.



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R00	ISSUED FOR PERMIT/TENDER	2024-07-24
RP3	95% REVIEW	2024-07-19
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RP1	50% REVIEW	2024-06-07
NO	ISSUED	YY.MM.DD

Client:  
CITY OF TORONTO  
CYBER COMMAND CENTRE  
55 JOHN STREET  
12TH FLOOR  
TORONTO, ONTARIO  
M5V 3C6

Drawing Title:  
**PLUMBING AND FIRE  
PROTECTION NEW PLAN**

Scale: 1/8"=1'-0"

Proj. No: 01595

Date: ARP.22.2024

Designed By: H.D.

Checked By: G.P.Y.

Code: 24025

Drawing No:

**M005**  
ARCHIT - 30042





NOTES:

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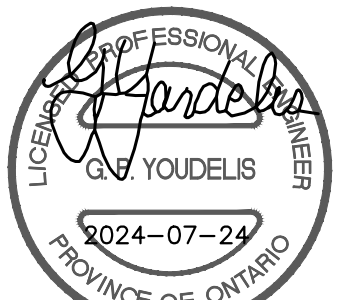
ALGA CONSULTING ENGINEERS  
415 Commerce Road, Suite 202  
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T: 416-484-0202 | F: 416-484-0208 | E: info@alga.ca

GENERAL NOTES

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2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND / OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.
5. ALL EXISTING VAV AND FAN COIL UNIT SHALL BE UTILIZED FOR NEW PLAN.
6. BUILDING AUTOMATION SYSTEM (BAS) WORK SHALL BE PERFORMED BY A LANDLORD'S APPROVED CONTRACTOR.

DRAWING NOTES

- ① EXISTING MAIN SUPPLY AIR DUCTWORK AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL FOR ALL)
- ② EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK TO REMAIN. (TYPICAL)
- ③ REMOVE EXISTING TEMPERATURE SENSOR AND SAVE SAFELY ON SITE FOR RELOCATION.
- ④ REMOVE EXISTING VAV BOX AND SAVE SAFELY ON SITE FOR RELOCATION. CAP DUCT OPENING AS REQUIRED.
- ⑤ EXISTING RETURN GRILLE TO BE REMOVED. (TYPICAL FOR ALL)
- ⑥ EXISTING SQUARE CONE SUPPLY AIR DIFFUSER TO BE REMOVED. (TYPICAL FOR ALL)
- ⑦ EXISTING TRANSFER AIR DUCT TO BE REMOVED.
- ⑧ EXISTING AC UNIT C/W CONDENSATE PUMP TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CHILLED WATER SUPPLY & RETURN PIPES BACK TO MAIN IN MECHANICAL ROOM.
- ⑨ EXISTING SUPPLY FAN C/W COOLING COIL TO BE REMOVED IN ITS ENTIRETY. CUT ASSOCIATED CHILLED WATER SUPPLY & RETURN PIPES BACK TO MAIN IN MECHANICAL ROOM.
- ⑩ EXISTING EXHAUST FAN C/W SPEED CONTROLLER TO BE REMOVED IN ITS ENTIRETY.
- ⑪ EXISTING VAV BOX AND ASSOCIATED DUCTWORK AT THIS LOCATION AS SHOWN TO REMAIN.
- ⑫ REMOVE EXISTING FAN COIL UNIT SERVING PERIMETER AREA AND SAVE SAFELY ON SITE FOR RELOCATION. CUT BACK ASSOCIATED HWS & HWR PIPES AS SHOWN. MAKE PIPING GOOD FOR FUTURE CONNECTION.
- ⑬ REMOVE EXISTING LINEAR SLOT DIFFUSER AND SAVE SAFELY ON SITE FOR RELOCATION. REMOVE ASSOCIATED FLEXIBLE AIR DUCTS. (TYPICAL)



R01	RE-ISSUED FOR TENDER	2024-07-31
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Client:  
CITY OF TORONTO  
CYBER COMMAND CENTRE  
55 JOHN STREET  
12TH FLOOR  
TORONTO, ONTARIO  
M5V 3C6

Drawing Title:  
HVAC DEMOLITION PLAN

Scale: 1/8"=1'-0"

Proj. No: 01595

Date: ARP.22.2024

Designed By: H.D.

Checked By: G.P.Y.

Code: 24025

Drawing No:

M006

ARCHIT - 30042

Cadfile Name: R02AE.24047-DR-VAW-M001-M007-R01



NOTES:

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2. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND / OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.
3. CONTRACTOR TO COORDINATE WORK ON SITE WITH EXISTING MECHANICAL, STRUCTURAL AND ELECTRICAL SERVICES.
4. PROVIDE ALL NECESSARY SYSTEM SHUTDOWN FOR THE WORK SHOWN AS REQUIRED.
5. ALL EXISTING VAV AND FAN COIL UNIT SHALL BE UTILIZED FOR NEW PLAN. CONTRACTOR SHALL TEST EXISTING FAN COIL UNITS AND VAV BOX AND PROVIDE REPORT ON CONDITION OF EQUIPMENT AND RECOMMEND REPAIRS IF REQUIRED.
6. BUILDING AUTOMATION SYSTEM (BAS) WORK SHALL BE PERFORMED BY A LANDLORD'S APPROVED CONTRACTOR.
7. CONTROL CONTRACTOR SHALL PROVIDE AND UPGRADE ALL GRAPHICS, COMMISSIONING, WIRING, ETC AS REQUIRED.

DRAWING NOTES

1. EXISTING MAIN SUPPLY AIR DUCTWORK AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL FOR ALL)
2. EXISTING WASHROOM EXHAUST AIR DUCTWORK AND GRILLE TO REMAIN. (TYPICAL)
3. EXISTING TRANSFER AIR DUCT AT THIS LOCATION AS SHOWN TO REMAIN. (TYPICAL)
4. EXISTING FAN COIL UNIT SERVING PERIMETER AREA TO REMAIN. VACUUM CLEAN FAN COIL UNIT UPON COMPLETION OF CONSTRUCTION AND PROVIDE NEW 1" THICK FILTER. SIZE SHALL BE VERIFIED ON SITE. (TYPICAL FOR ALL)
5. EXISTING VAV BOX AT THIS LOCATION AS SHOWN TO REMAIN. AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE AS SHOWN FOR ASSOCIATED VAV BOX, OTHERWISE NOTED. (TYPICAL)
6. RELOCATE EXISTING VAV BOX AT THIS APPROX. LOCATION AS SHOWN. PROVIDE NEW SUPPLY AIR DUCTWORK AND DISTRIBUTE AS INDICATED. AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE AS SHOWN FOR ASSOCIATED VAV BOX, OTHERWISE NOTED. (TYPICAL)
7. RELOCATE EXISTING TEMPERATURE SENSOR TO THIS LOCATION AS SHOWN. CONTRACTOR TO EXTEND AND MODIFY WIRING AS REQUIRED.
8. PROVIDE NEW SUPPLY AIR DIFFUSER AT THIS LOCATION AS SHOWN. PROVIDE SPIRAL / FLEXIBLE AIR DUCT AND CONNECT TO DIFFUSER C/W SPIN-ON FITTING AS REQUIRED. (TYPICAL)
9. PROVIDE NEW RETURN AIR GRILLE AT THIS LOCATION AS SHOWN.
10. RELOCATE EXISTING LIGHT TROFFER DIFFUSER TO THIS LOCATION AS SHOWN. PROVIDE NEW 6" SPIRAL / FLEXIBLE AIR DUCT AND CONNECT TO DIFFUSE C/W SPIN-ON FITTING. PROVIDE DUCT TRANSITIONS TO CONNECT TO DIFFUSER INLET. CONTRACTOR TO VACUUM CLEAN DIFFUSERS PRIOR TO INSTALLATION. (TYPICAL)
11. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT AT THIS LOCATION AS SHOWN.
12. PROVIDE NEW KITCHEN EXHAUST FAN AND DISTRIBUTE DUCTWORK AS INDICATED C/W INTERNAL ACOUSTICALLY LINING. PROVIDE SPRING ISOLATORS, HANGERS, AND FLEXIBLE DUCT CONNECTORS. INTERFACE NEW EXHAUST FAN TO BAS SYSTEM. PROVIDE NEW CONTROL WORK RELATED TO ADDING GAS CONNECTIONS TO EXHAUST FAN, INCLUDING CONTROL WIRING, FIELD DEVICES, INSTALLATION, PROGRAMMING AND GRAPHICS, ETC AS REQUIRED.
13. RELOCATE EXISTING FAN COIL UNIT TO THIS APPROX. LOCATION. PROVIDE NEW DUCTWORK AND CONNECT TO EXISTING AS INDICATED. EXTEND AND MODIFY HWS & HWR PIPES TO CONNECT TO NEW LOCATION OF FAN COIL UNIT C/W THERMAL INSULATION. RE-INSTALL EXISTING CONTROL VALVE.
14. RELOCATE EXISTING LINEAR DIFFUSER TO THIS APPROX. LOCATION. PROVIDE NEW 6" SPIRAL DUCT AND CONNECT TO DIFFUSER C/W SPIN-ON FITTING. COORDINATE EXACT LOCATION ON SITE TO ACCOMMODATE NEW DUCTWORK. (TYPICAL)
15. PROVIDE NEW FAN COIL UNIT TO SERVE FORENSICS ROOM. SUPPORT AC UNIT FROM STRUCTURE ABOVE C/W SPRING ISOLATORS. PROVIDE FLEXIBLE DUCT CONNECTORS, INTERNALLY ACOUSTICALLY LINING, AND THERMAL INSULATION FOR SUPPLY AND RETURN AIR DUCTS. COORDINATE EXACT DUCT ROUTING ON SITE TO AVOID ANY INTERFERENCES WITH EXISTING COMPONENTS IN CEILING SPACE. INTERFACE AC UNIT TO BAS. PROVIDE ALL NECESSARY CONTROL WORK AS REQUIRED.
16. PROVIDE NEW CHILLED WATER SUPPLY AND RETURN PIPING AND CONNECT TO EXISTING CAPPED CONNECTION IN MECHANICAL ROOM C/W SHUT-OFF, BALANCING, STRAINER, AND ALL NECESSARY ACCESSORIES AS REQUIRED. PROVIDE NEW FULLY MODULATING ELECTRONIC CONTROL VALVE AND CONNECT TO NEW TEMPERATURE SENSOR.
17. PROVIDE NEW TEMPERATURE SENSOR AND INTERFACE TO BAS. PROVIDE ALL GRAPHICS, COMMISSIONING, WIRING, ETC AS REQUIRED.
18. PROVIDE NEW 1-1/2" SIDE WALL MOUNTED RETURN AIR SLOT C/W LIGHT SHIELD Baffle. REFER TO DETAIL.
19. PROVIDE NEW VAV BOX C/W ATTENUATOR THIS LOCATION AS SHOWN AND DISTRIBUTE DUCTWORK AS INDICATED. INTERFACE VAV BOX TO BAS. PROVIDE NEW CONTROL WORK, GRAPHICS, COMMISSIONING, WIRING, ETC AS REQUIRED. AIR FLOW RATES SHALL BE BALANCED EQUALLY BETWEEN ALL DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE AS SHOWN FOR ASSOCIATED VAV BOX, OTHERWISE NOTED.
20. PROVIDE NEW FLEXIBLE AIR DUCT AND CONNECT TO EXISTING LINEAR DIFFUSER. (TYPICAL)



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Client:

CITY OF TORONTO  
CYBER COMMAND CENTRE  
55 JOHN STREET  
12TH FLOOR  
TORONTO, ONTARIO  
M5V 3C6

Drawing Title:

HVAC NEW LAYOUT

Scale: 1/8"=1'-0"

Proj. No: 01595

Date: ARP.22.2024

Designed By: H.D.

Checked By: G.P.Y.

Code: 24025

Drawing No:

M007

ARCH-ET-30042

Cadfile Name: R02AE-24047-DRAW-A001-M007-R01