



NAME: ALI SAFI

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CONSULTANT:



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TORONTO ONTARIO, M1C1A4

03118.008.M.001

LIBRARY / IITS INTERIOR  
RENOVATION - ARC BUILDING  
PHASE I

LIBRARY / IITS, 1265 MILITARY TRAIL

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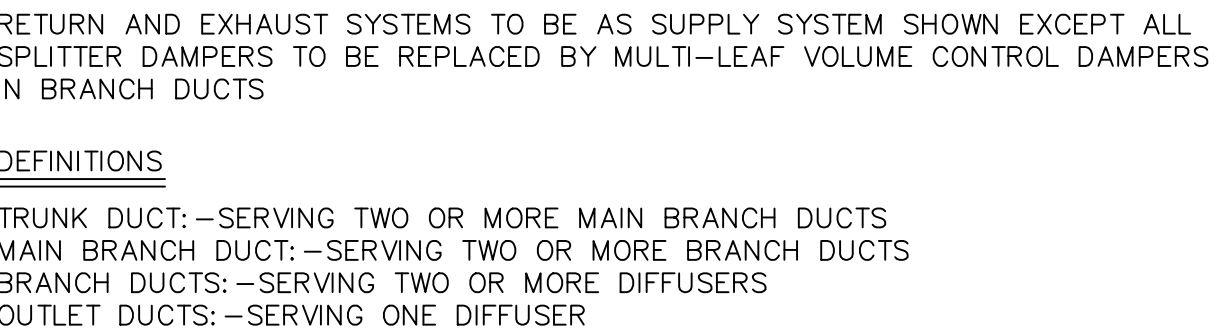
### DRAWING TITLE

## MECHANICAL DETAILS

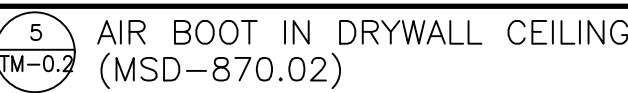
DATE: 2021-04-20

DRAWING No.

TM-0.2



4 BALANCING DAMPERS  
TM-0.2 (MSD-840.03)



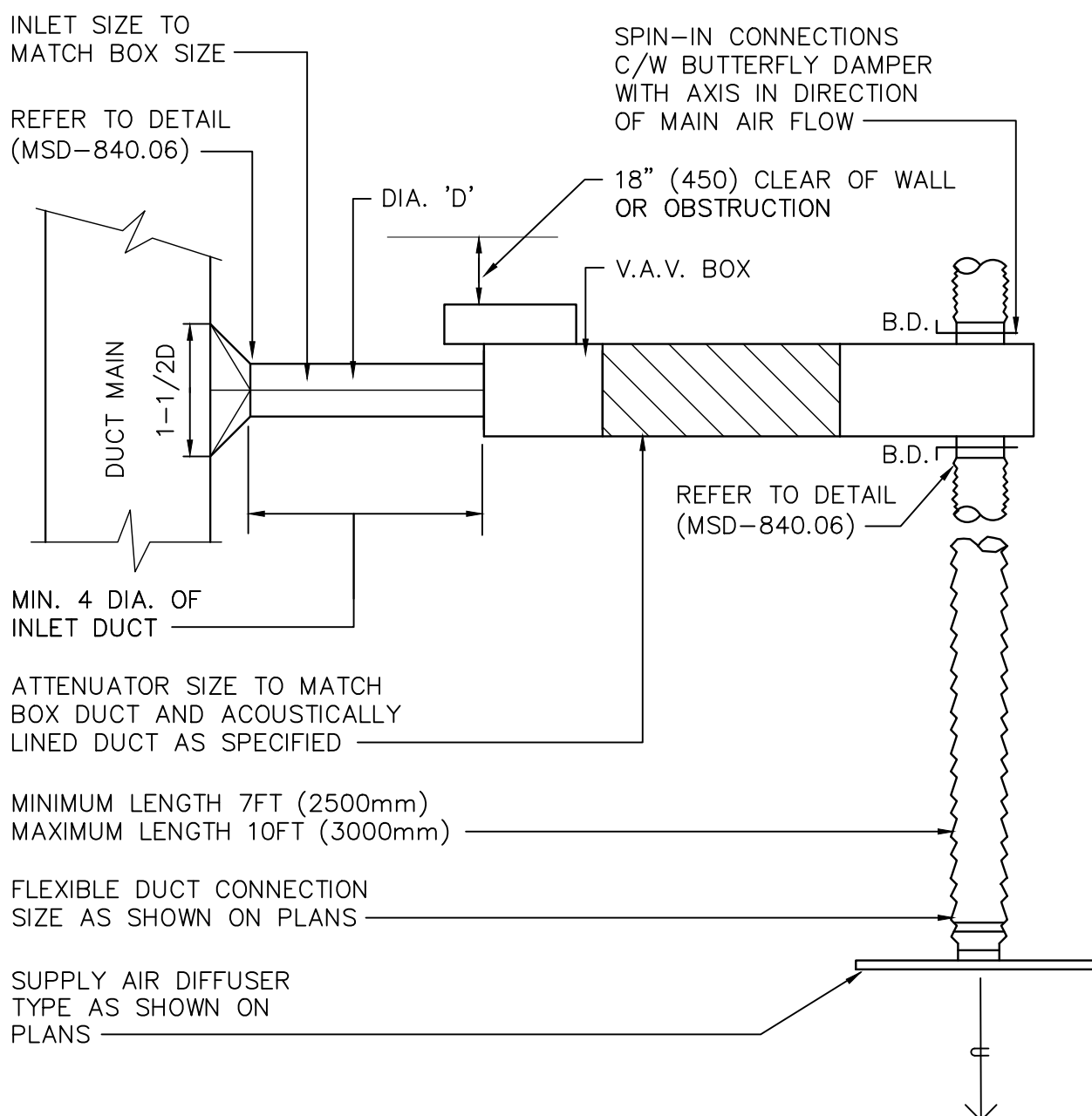
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JM-0.2

DUCT DETAILS  
(MSD-840.05)

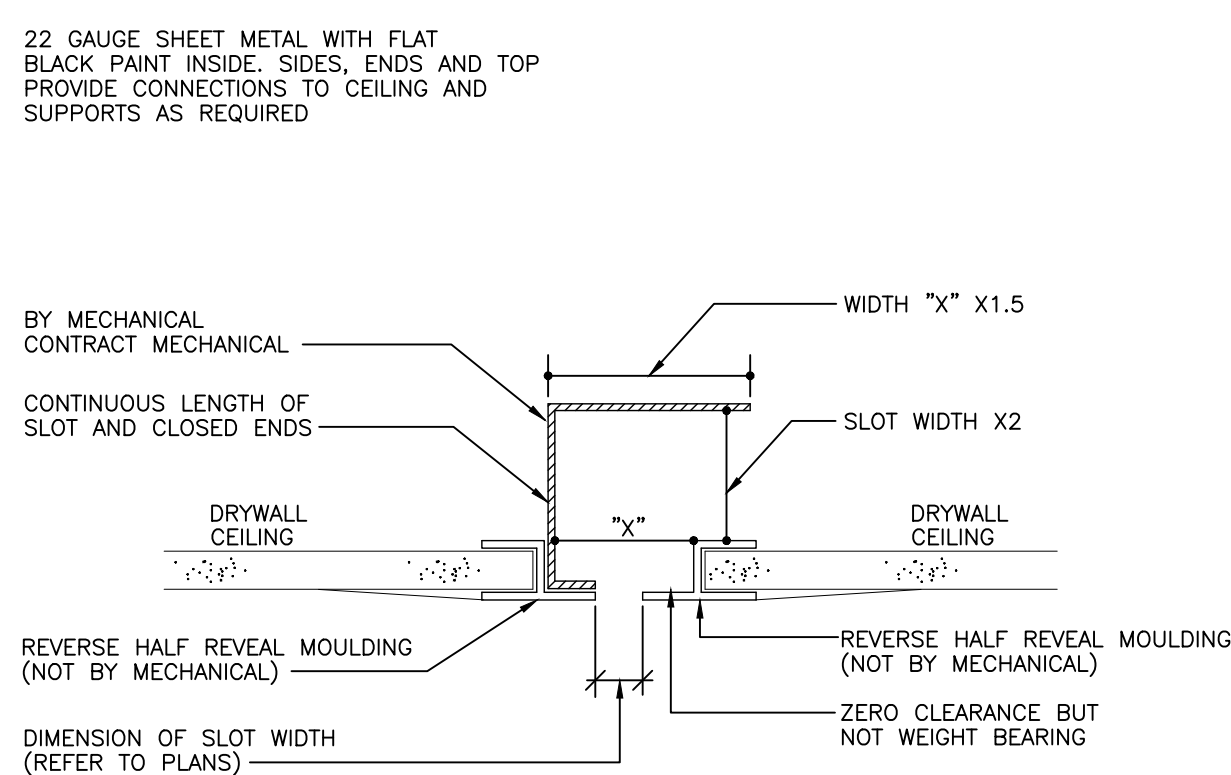


### FLEXIBLE DUCT SPIN-IN CONNECTION

2 FLEXIBLE DUCT CONNECTIONS  
TM-0.3 (MSD-840.06)



3 TYPICAL V.A.V. BOX INSTALLATION  
TM-0.2 (MSD-840.04)



6 RETURN AIR TRANSFER SLOT IN DRYWALL CEILING WITH SIGHT BAFFLE  
(MSD-870.03)

10 NOT USED

11 NOT USED

12 NOT USED



NO.	DATE	REVISION NO.
1	2021-06-25	ISSUED FOR PERMIT
2	2021-07-21	ISSUED FOR 100% TENDER CHECK SET
3	2021-08-05	ISSUED FOR TENDER
4	2021-10-20	ISSUED FOR CONSTRUCTION

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TORONTO ONTARIO, M1C1A4

PROJECT #:

03118.008.M.001

PROJECT TITLE:

LIBRARY / IITS INTERIOR  
RENOVATION - ARC BUILDING  
PHASE I

LIBRARY / IITS, 1265 MILITARY TRAIL

DRAWN BY:

AS

CHECKED BY:

AV

DRAWING TITLE:

2ND LEVEL - PHASE 1  
MECHANICAL DEMOLITION  
LAYOUT

DATE:

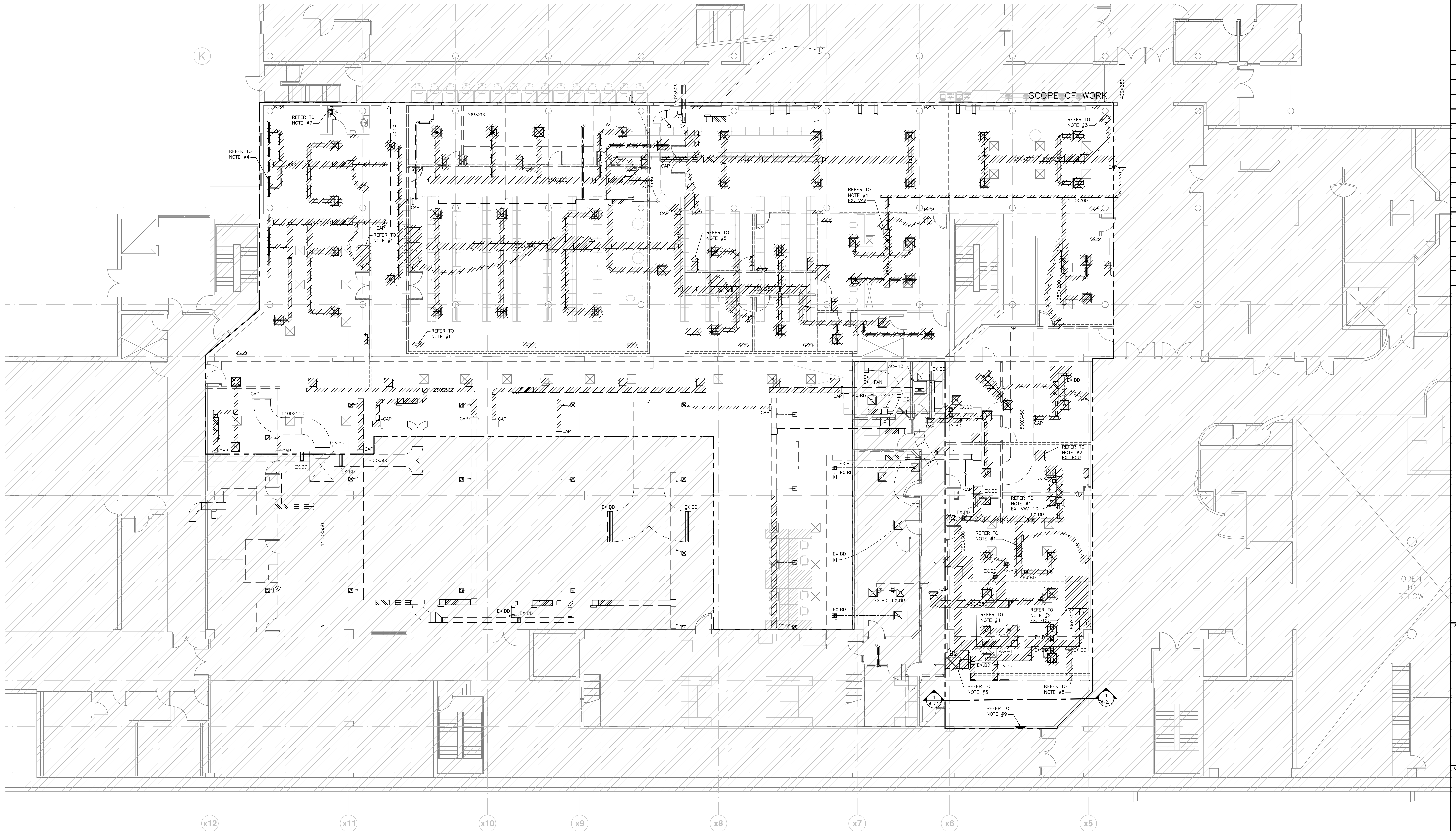
2021-04-20

DRAWING No:

TM-2.1.

SCALE:

1:100

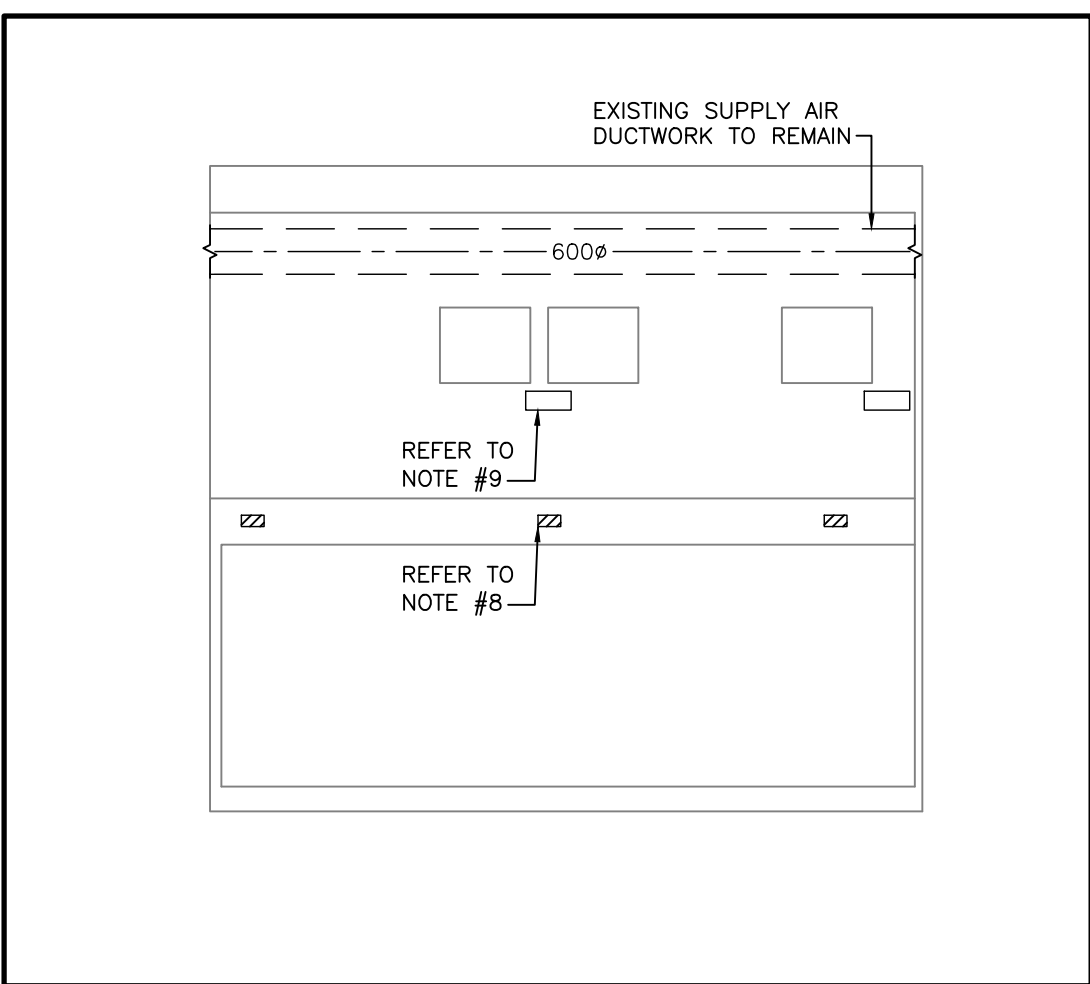


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- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- REMOVE EXISTING VAV BOX COMPLETE WITH ALL EXISTING HANGERS, SUPPORTS, ASSOCIATED RIGID DUCTS/FLEX DUCTS, DIFFUSERS, CONDUITS, CONTROL WIRING, ETC. ELECTRICAL SERVICE DISCONNECTION BY THE ELECTRICAL DIVISION. CAP SUPPLY AIR DUCTWORK AS CLOSE TO MAIN AS INDICATED. PRICE IN TENDER FOR THE REMOVAL OF 250# VAV BOX. (TYPICAL)
- REMOVE EXISTING FAN COIL UNIT COMPLETE WITH ALL EXISTING HANGERS, SUPPORTS, DUCTS, CONTROLS, ETC. ELECTRICAL SERVICE DISCONNECTION BY THE ELECTRICAL DIVISION.
- REMOVE EXISTING PNEUMATIC THERMOSTAT COMPLETE WITH CONTROL WIRING AND PNEUMATIC TUBING. (TYPICAL)
- REMOVE EXISTING PERIMETER LINEAR SLOT DIFFUSER COMPLETE WITH ASSOCIATED RIGID/FLEX DUCTS AND RETURN AIR SLOT WITH 2-BAFFLE ABOVE AS SHOWN.
- REMOVE EXISTING ACOUSTICALLY LINED TRANSFER AIR DUCT AS INDICATED. PRICE IN TENDER FOR THE REMOVAL OF 500X200 ACOUSTICALLY LINED TRANSFER AIR DUCT. (TYPICAL)
- REMOVE EXISTING 600X150 RETURN AIR GRILLE AS INDICATED. (TYPICAL)
- REMOVE EXISTING 200X200 SANITARY EXHAUST AIR GRILLE AS INDICATED. EXISTING 200X200 SANITARY EXHAUST AIR DUCT TO REMAIN.
- PATCH AND REPAIR WALL WHERE SIDEWALL AIR TERMINALS ARE BEING REMOVED TO MATCH EXISTING CONDITIONS. PATCH AND REPAIR WORK TO BE COORDINATED ON SITE WITH ARCHITECTURAL DIVISION. REFER TO DETAIL #1/TM-2.1.1 (TYPICAL)
- EXISTING RETURN AIR GRILLE TO REMAIN. CONTRACTOR TO VERIFY GRILLE SIZE ON SITE. TYPICAL OF 3.

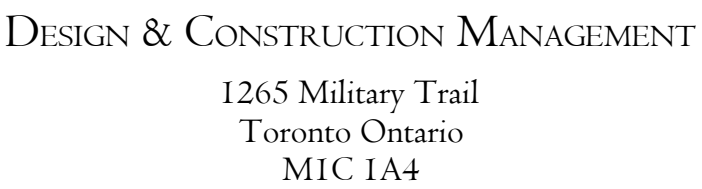


1 SECTION  
1-2.1 1:75







[illegible]

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PHASE I

LIBRARY / IITS, 1265 MILITARY TRAIL

DRAWN BY: AS CHECKED BY: AV

2ND LEVEL - PHASE 1  
H.V.A.C. LAYOUT

DATE: 2021-04-20

DRAWING No:

TM-2.3.

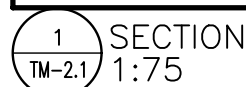


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- READ FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS SHALL BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
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- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. CONNECT NEW SUPPLY AIR DUCTWORK TO EXISTING AND EXTEND AS INDICATED, SIZE AS INDICATED ON DRAWINGS. (TYPICAL)
  2. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH WATER HEAT COIL AND ALL ASSOCIATED HANGERS, CONDUITS, FITTINGS, CONNECTIONS, SIZES NOTED ON DRAWINGS. (TYPICAL)
  3. PROVIDE NEW COMBINATION TEMPERATURE/CO2 SENSOR, INSTALL SENSORS AT NOMINALLY 1200mm ABOVE FLOOR, THE ENGINEERING SPECIFICATIONS OTHERWISE. SENSORS ARE LOCATED TO AID IN PREVENTING AND ALLEVIATING HOT SPOTS. SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE TYPICAL WITH THE FOLLOWING: 1. SENSORS SHALL BE LOCATED WITHIN 1000mm OF LOCATION SHOWN. ALL RELOCATIONS SHALL BE WITHIN RANGE SHALL BE REVIEWED WITH THE CONSULTANT.
  4. PROVIDE ACoustically LINed TRANSFER AIR DUCT IN LAYOUT LOCATION, FREE AREA TRANSFER DUCT IN LAYOUT LOCATION, QUANTITY, AND SIZE TO SUT CILING SPACE AND SITE CONDITIONS. REFER TO DETAIL #12-T/14 (TYPICAL)
    - TAD-01 PROVIDE A TOTAL OF 0.15 SQ.M
    - TAD-015 PROVIDE A TOTAL OF 0.15 SQ.M
    - T/14-01 (TYPICAL)
  5. PROVIDE ACoustically LINed TRANSFER AIR DUCT IN LAYOUT LOCATION, FREE AREA TRANSFER DUCT IN LAYOUT LOCATION, QUANTITY, AND SIZE TO SUT CILING SPACE AND SITE CONDITIONS. REFER TO DETAIL #12-T/14 (TYPICAL)
    - T/A-01 PROVIDE A TOTAL OF 0.15 SQ.M
    - T/A-015 PROVIDE A TOTAL OF 0.15 SQ.M
    - T/14-01 PROVIDE A TOTAL OF 0.2 SQ.M
  6. SUPPLY AIR TRANSFER LINEAR AIR DUCT PROVIDED WITHIN CONTINUOUS ARCHITECTURAL DUCT PROVIDED, REFER TO ARCHITECTURAL DRAWING FOR TOTAL SLOT LENGTH AND ACTIVE CHASSIS LENGTH. PROVIDE DUCT COMPLETE WITH MATT BLACK "F" BAFFLE AND A MINIMUM ACTIVE CHASSIS LENGTH OF 1.0M
- Z-1 MIN. OF 40° RETURN/NON-ACTIVE LENGTH  
Z-1 MIN. OF 40° RETURN/NON-ACTIVE LENGTH

5. UNDERCUT DOOR BY 25mm FOR TRANSFER AIR. NOT BY MECHANICAL DIVISION.
6. CONNECT NEW 200X200 SANITARY EXHAUST AIR DUCT TO EXISTING AND EXTEND AS INDICATED COMPLETE TO EXISTING EXHAUST DUCT. NEW EXHAUST DUCT TO 200X200 TYPE "E" GRILLE.
7. PROVIDE AND INSTALL NEW AIR COOLED CONDENSING COIL WITH 1/2" SLOPE TO EXISTING DRAIN. PROVIDE "ECO-FOOT" SUPPORT STAND. EXACT LOCATION OF CONDENSING COIL TO BE DETERMINED BY THE HVAC CONTRACTOR AND APPROVED BY LANDLORD PRIOR TO INSTALL AS PER MANUFACTURER'S REQUIREMENTS.
10. PROVIDE AND INSTALL NEW DUCTLESS WALL MOUNTED SPLIT A/C (ACU-21) COMPLETE WITH ALL ASSOCIATED WIRING, CONDENSATE, THERMOSTAT, CONDENSING WIRING ETC.
11. PROVIDE AND INSTALL NEW 30W ELECTRICAL DUCT, PROVIDE 1/2" SLOPE TO EXISTING DRAIN. PROVIDE FOR ELECTRIC DUCT HEATER SPECIFICATIONS, PROVIDE 1/2" SLOPE TO EXISTING DRAIN. PROVIDE EXACT OUTLET DIMENSIONS. POWER CONNECTION BY ELECTRICAL DIVISION. (TYPICAL)
12. PROVIDE 600X300 RETURN AIR GRILLES UNLESS NOTED OTHERWISE.
13. ALL DUCTWORK RETURNS WITHIN OPEN CEILING ARE TO BE FLUSH WITH DUCTWORK.
14. PROVIDE AND INSTALL NEW CROSS-TALK SILENCER IN RETURN AIR DUCTWORK. REMOVE EXISTING RETURN AIR GRILLE TO FACILITATE THE INSTALLATION OF NEW SILENCER. PROVIDE TRANSITION AS REQUIRED. REFER TO MECHANICAL DIVISION FOR SILENCER SPECIFICATIONS. PROVIDE CONTRACTOR TO VERIFY EXISTING GRILLE SIZE ON EXISTING DUCTWORK. SILENCER TO BE MATCH EXISTING OPENING DIMENSIONS. TERMINATE TO EXISTING DUCTWORK. COORDINATE WITH ARCHITECTURAL DIVISION ON SITE FOR INTERFERENCES. REFER TO DETAIL #17W-2/1-21 (TYPICAL)
15. PROVIDE AND INSTALL NEW SENSIMS CONTROL PANEL FOR NEW VAV CONTROLS. FINAL LOCATION TO BE DETERMINED BY THE HVAC CONTRACTOR.



TM-2.3.



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TORONTO ONTARIO, M1C1A4

PROJECT #:

03118.008.M.001

PROJECT TITLE:

LIBRARY / IITS INTERIOR  
RENOVATION - ARC BUILDING  
PHASE I

LIBRARY / IITS, 1265 MILITARY TRAIL

DRAWN BY:

AS

CHECKED BY:

AV

DRAWING TITLE:

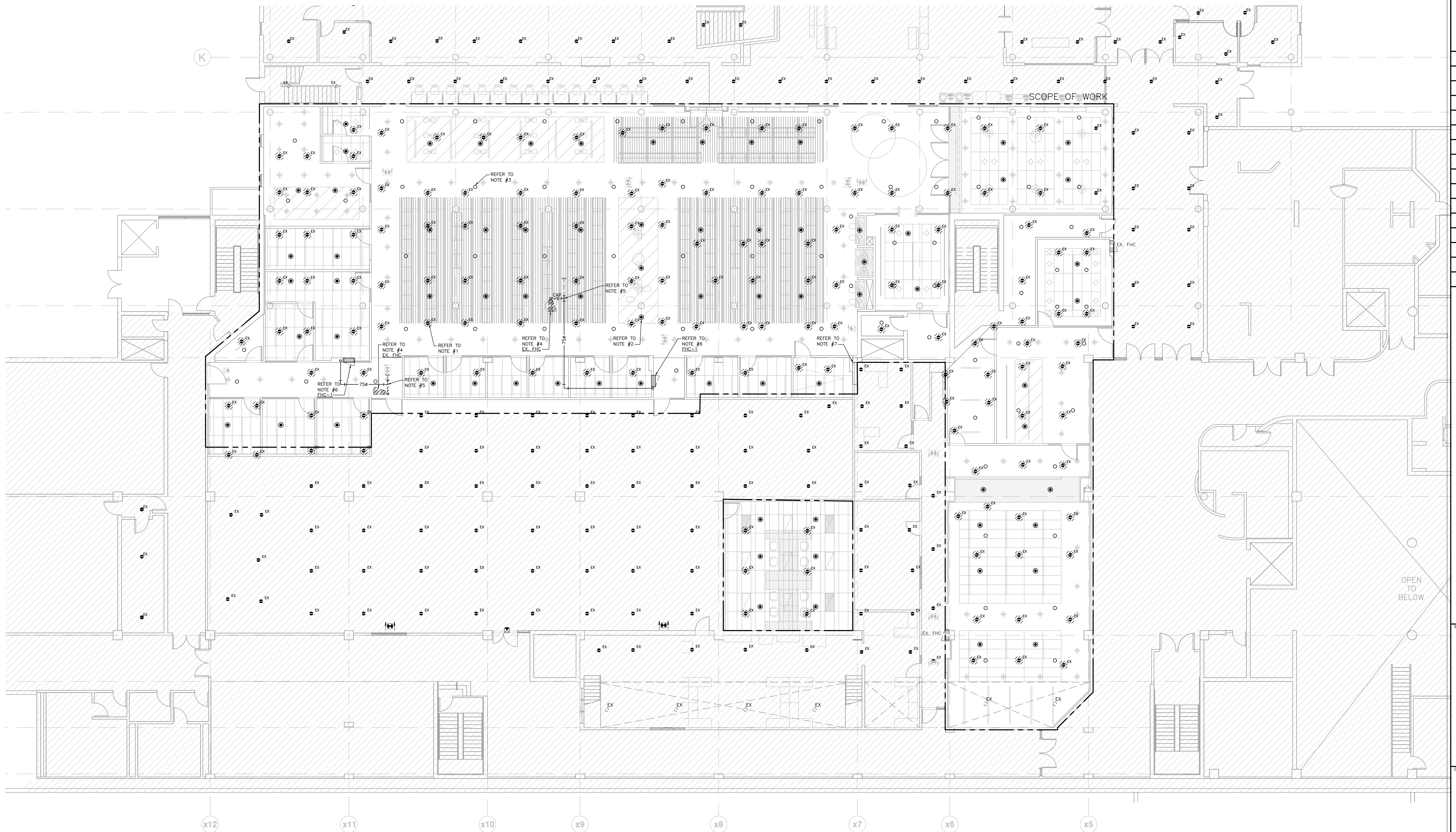
2ND LEVEL - PHASE 1  
FIRE PROTECTION LAYOUT

DATE:  
2021-04-20

SCALE:  
1:100

DRAWING No:

TM-2.4.



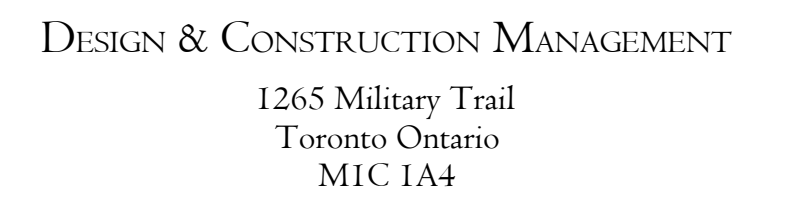
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DRAWING NOTES:

- EXISTING PENDENT HEAD TO BE REMOVED. (TYPICAL)
- PROVIDE AND INSTALL NEW CUSTOM FACTORY PAINTED CONCEALED TYPE SPRINKLER HEAD COMPLETE WITH METAL DEFLECTOR. REFER TO ARCHITECT DRAWINGS FOR CAP FINISH COLOR. (TYPICAL)
- PROVIDE AND INSTALL NEW UPRIGHT TYPE SPRINKLER HEAD.
- REMOVE EXISTING 100' FIRE HOSE CABINET. REMOVE AND CAP EXISTING 75# FIRE LINE AT HIGH LEVEL. (TYPICAL)
- CONNECT NEW 75# FIRE LINE TO EXISTING 75# AND EXTEND AS INDICATED. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO SERVICES.
- PROVIDE AND INSTALL NEW 100' RECESSED FIRE HOSE CABINET. NEW 75# FIRE LINE DOWN TO NEW FIRE HOSE CABINET.
- EXISTING SPRINKLER VALVE CABINET TO REMAIN.
- QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AD IN PRINCIPLE ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED OR SHOWN. CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM REQUIREMENTS OF ENFORCED NFPA 13 STANDARD.
- PROVIDE SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER. INDICATED ZONING AND DENSITY. PROVIDE A SPRINKLER PLANS. PROVIDE SHOP DRAWINGS IDENTIFYING PROPOSED LAYOUT FOR REVIEW PRIOR TO INSTALLATION.
- PROVIDE A SEALED LETTER BY THE PROFESSIONAL ENGINEER OF RECORD CONFIRMING THE INSTALLATION COMPLIES WITH THE SHOP DRAWINGS AND THE ENFORCED NFPA 13 AND 14 STANDARD. INCLUDE ALL ASSOCIATED COSTS IN THE TENDER PRICE.
- COORDINATE FIRE PROTECTION SERVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION. RECTIFY, AT OWN EXPENSE, ALL CONFLICTS RESULTING FROM UNCOORDINATED FIRE PROTECTION SYSTEMS INSTALLED IN ADVANCE OF THE REQUIRED INTERFERENCE PROCESS.



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RENOVATION - ARC BUILDING  
PHASE I

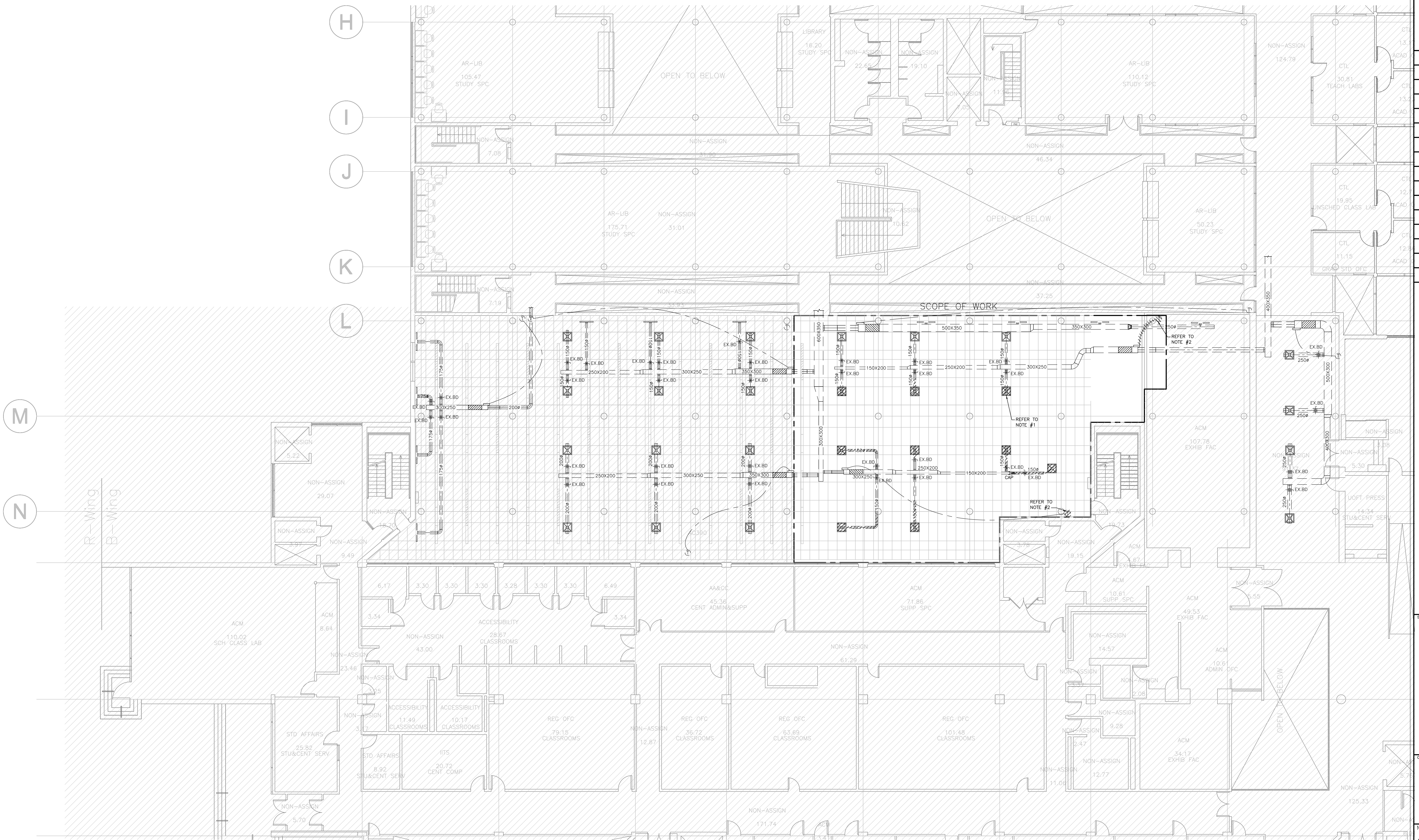
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3RD LEVEL – PHASE 1  
MECHANICAL DEMOLITION  
LAYOUT

DATE: 2021-04-20

TM-3.1



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DRAWING NOTES:

1. REMOVE AND RELOCATE EXISTING DIFFUSER. REMOVE ASSOCIATED RIGID/FLEX DUCTS AS SHOWN. DO NOT REUSE FLEX DUCT. REFER TO DRAWING TM-3.3 FOR NEW LOCATION. (TYPICAL)
2. REMOVE EXISTING PNEUMATIC THERMOSTAT COMPLETE WITH CONTROL WIRING AND PNEUMATIC TUBING. REFER TO DRAWING TM-3.3 FOR NEW LOCATION.





DESIGN & CONSTRUCTION MANAGEMENT  
1265 Military Trail  
Toronto Ontario  
M1C 1A4

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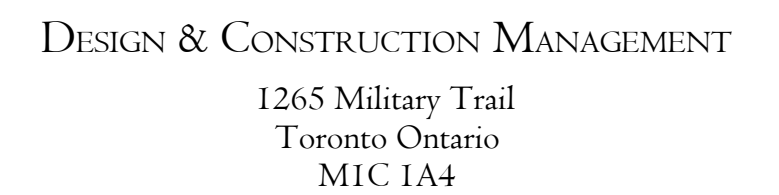
3RD LEVEL - PHASE 1  
PLUMBING AND PIPING  
LAYOUT

DATE: 2021-04-20

DRAWING No:

TM-3.2



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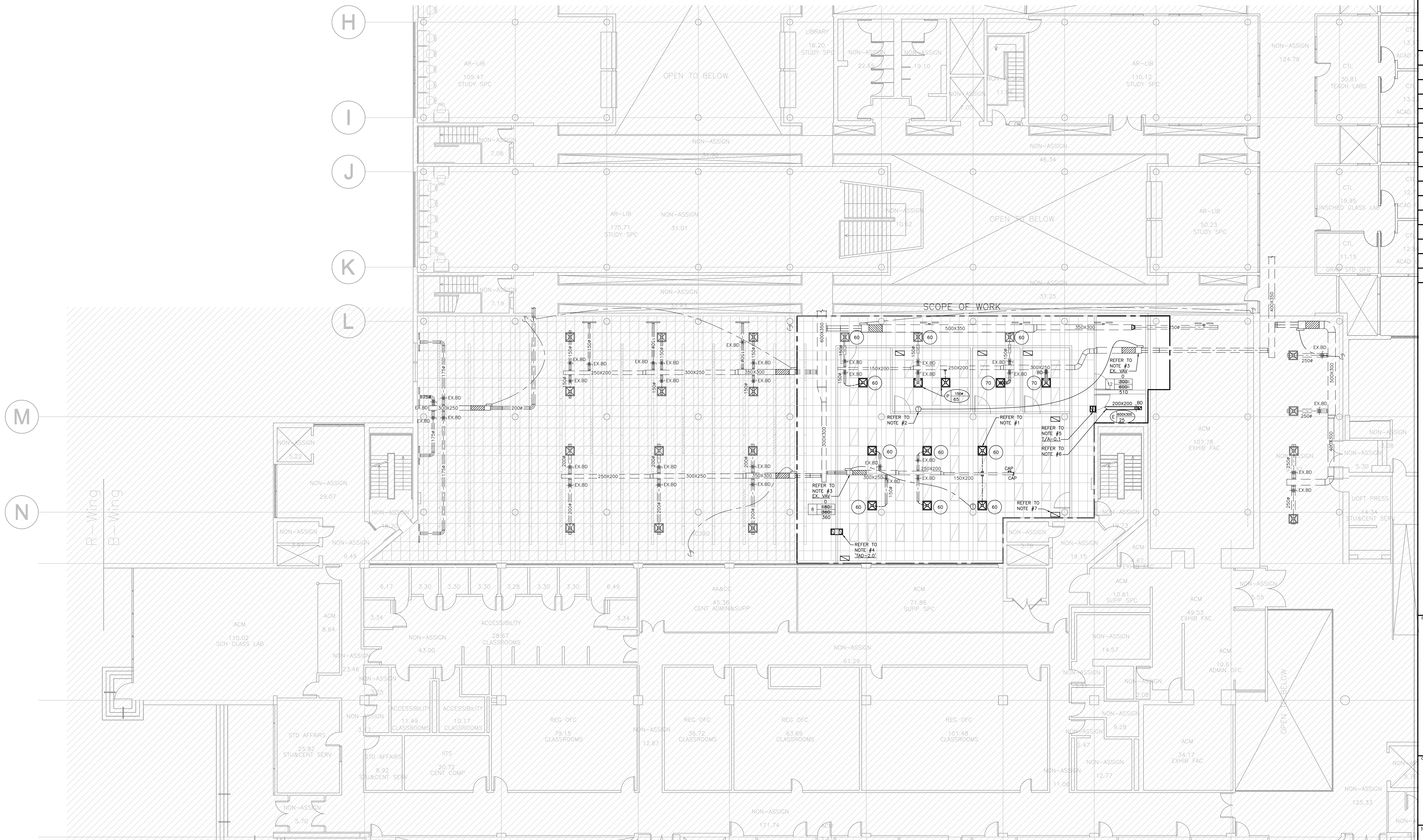
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TM-3.3



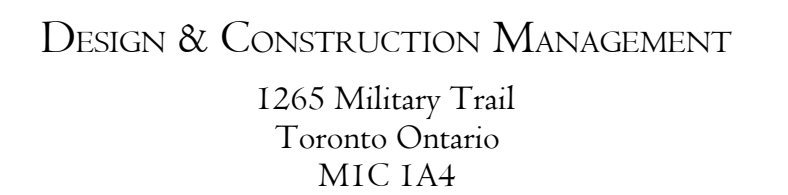
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- READ FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS SHALL BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- [illegible]



[illegible]

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THIS DRAWING SHALL BE READ IN CONJUNCTION  
WITH MECHANICAL SPECIFICATION SUBMITTED FOR  
THIS PROJECT.

STAMP:



**Smith + Andersen**  
1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5  
416 487 8151 f 416 487 9104 [smithandandersen.com](http://smithandandersen.com)

Notes:

All dimensions and information shall be checked and verified on the site and any discrepancies must be reported to the UoIT Project Manager or the UoIT Project Coordinator before commencing the work. Drawings are not to be scaled.

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LIBRARY/ INFO & INSTRUCTIONAL  
TECHNOLOGY SERVICES- UNIVERSITY  
OF TORONTO SCARBOROUGH

TORONTO ONTARIO, M1C1A4

PROJECT #:  
03118.008.M.001

PROJECT TITLE:  
LIBRARY / IITS INTERIOR  
RENOVATION - ARC BUILDING  
PHASE I

LIBRARY / IITS, 1265 MILITARY TRAIL

DRAWN BY: AS
 CHECKED BY: AV

3RD LEVEL - PHASE 1  
FIRE PROTECTION LAYOUT

DATE: 2021-04-20

**AWING** Na:

TM-3.4