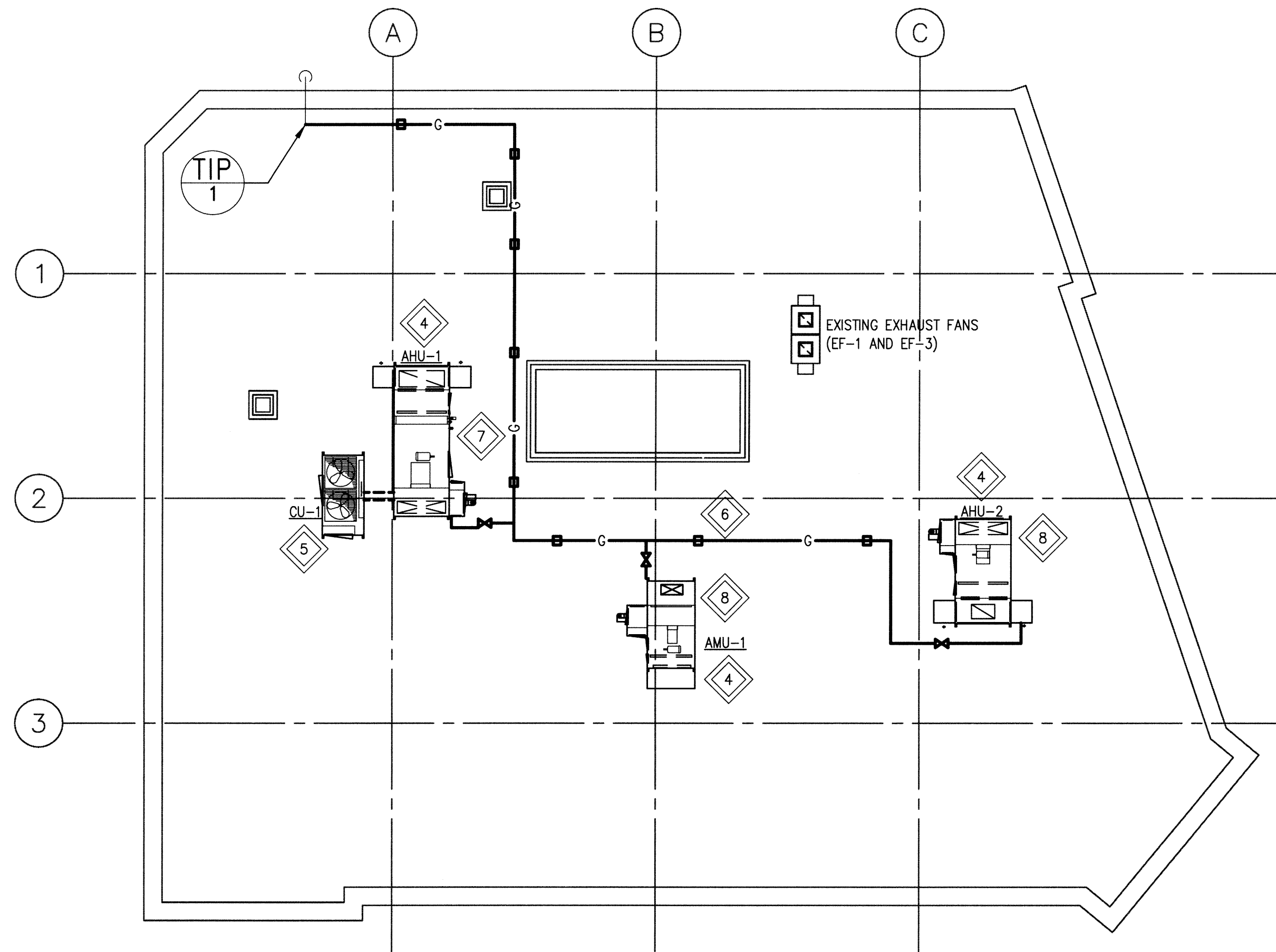


1 ROOF PLAN - HVAC DEMOLITION

2000 0 2000 4000 6000 8000

SCALE: 1:100mm (24"x36")
N.T.S. (11"x17")



2 ROOF PLAN - NEW HVAC

2000 0 2000 4000 6000 8000

SCALE: 1:100mm (24"x36")
N.T.S. (11"x17")

LEGEND:

- NEW EQUIPMENT/DUCTWORK/PIPING
- EXISTING EQUIPMENT/DUCTWORK/PIPING
- NATURAL GAS PIPING
- REFRIGERANT PIPING
- AMU AIR MAKE-UP UNIT
- AHU AIR HANDLING UNIT
- CU CONDENSING UNIT
- SUPPLY AIR
- RETURN AIR
- TIP 1 TIE IN POINT

GENERAL NOTES:

- PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- REVIEW EQUIPMENT LOCATIONS WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
- EQUIPMENT LOCATIONS, DUCT, AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH DEPARTMENTAL REPRESENTATIVE. COORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC., THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK, AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
- CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK.
- PROVIDE ALL ROOF, WALL AND FLOOR PENETRATIONS. SEAL AIR AND WATER TIGHT. FIRESTOP ALL PENETRATIONS WHERE REQUIRED TO MATCH EXISTING FIRE RATING. INFORMATION ON FIRESTOPPING TO BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- X-RAY ALL PENETRATIONS THROUGH CONCRETE PRIOR TO INSTALLATION.

KEYNOTES:

- REMOVE EXISTING ROOFTOP AIR HANDLING UNITS AND AIR MAKE-UP UNIT AND DISPOSE OF OFF SITE. REMOVE ASSOCIATED CONTROLS AND ROOFTOP DUCTWORK FROM THE ROOF TO THE UNDERSIDE OF THE UNIT.
- REMOVE EXISTING 10 TON CONDENSING UNIT AND TURN OVER TO THE DEPARTMENTAL REPRESENTATIVE. REMOVE EXISTING REFRIGERANT PIPING TO AND FROM AHU-1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT FEDERAL HALOCARBON REGULATIONS, MANITOBA REGULATION MR 193, AND THE OZONE DEPLETING SUBSTANCES ACT.
- REMOVE EXISTING OUTDOOR GAS PIPING AND WOODEN PIPE SUPPORTS ON ROOF UP TO TIE IN POINT SHOWN.
- SUPPLY AND INSTALL NEW AIR HANDLING UNITS AND AIR MAKE-UP UNIT ON ROOF. PROVIDE DUCT TRANSITION AS REQUIRED TO TIE INTO EXISTING ROOF PENETRATIONS FOR SUPPLY AND RETURN DUCTWORK. UNITS ARE SUPPORTED 450mm ABOVE ROOF. DETAILS ON STRUCTURAL DRAWINGS. COORDINATE INSTALLATION WITH STRUCTURAL. PROVIDE NEW REMOTE CONTROL PANEL IN MECHANICAL ROOM B-05. REFER TO CONTROLS SCHEMATIC ON DRAWING H02.
- SUPPLY AND INSTALL NEW CONDENSING UNIT CU-1 AND REFRIGERANT PIPING TO TIE INTO NEW AHU-1. ROOF CURB BY STRUCTURAL.
- PROVIDE NEW GAS PIPING TO TIE EXISTING GAS LINE INTO ROOFTOP UNITS COMPLETE WITH FITTINGS AS REQUIRED. SUPPORT ROOFTOP PIPING WITH NEW NEOPRENE MANUFACTURED SUPPORTS. LABEL PIPING AND PAINT YELLOW. CONTRACTOR RESPONSIBLE FOR SIZING AND DESIGNING GAS DISTRIBUTION.
- PROVIDE INSULATION AND JACKETING FOR ROOFTOP DUCTWORK ASSOCIATED WITH AHU-1.
- UNIT TO BE SUPPORTED ON AN INSULATED ROOF CURB PROVIDED BY STRUCTURAL. REFER TO DRAWING S02. MECHANICAL CONTRACTOR TO FINISH SEALING UNIT TO CURB WITH INSULATED DRIP EDGES AFTER SETTING ON CURB. COORDINATE INSTALLATION WITH STRUCTURAL.

NATURAL GAS LOADS

UNIT TAG	INPUT (BTU/H)	REQUIRED GAS PRESSURE AT UNIT (CONFIRM WITH VENDOR)
AHU-1*	360,000	7" W.G. MINIMUM
AHU-2*	200,000	7" W.G. MINIMUM
AHU-3*	200,000	7" W.G. MINIMUM
TOTAL	760,000	

*REQUIRES 5 PSI GAS SERVICE TO BUILDING. CONTRACTOR TO CONFIRM ON SITE CONDITIONS WITH UTILITY.

DO NOT SCALE DRAWINGS

Revision/ Révision	Description/Description	Date/Date
0	ISSUED FOR CONSTRUCTION	13/05/29

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

100-167 LOMBARD AVENUE
WINNIPEG MB R3C 2Z1

Project title/Titre du projet
REPLACEMENT OF AIR HANDLING UNITS
OSBORNE CORRECTIONAL COMMUNITY CENTRE
1048 MAIN STREET, WINNIPEG, MB

Approved by/Approuvé par
RLG

Designed by/Concept par
TJC

Drawn by/Dessiné par
TJC

PWOSC Project Manager/Administrateur de Projets TPSOC
TIM LODGE

PWOSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSOC

Client/client

Drawing title/Titre du dessin
MECHANICAL
ROOF PLAN
DEMOLITION AND NEW HVAC

Project No./No. du projet
R.058521.001

Sheet/Fauille
H01
OF 03

Revision no./
La Révision
no.
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