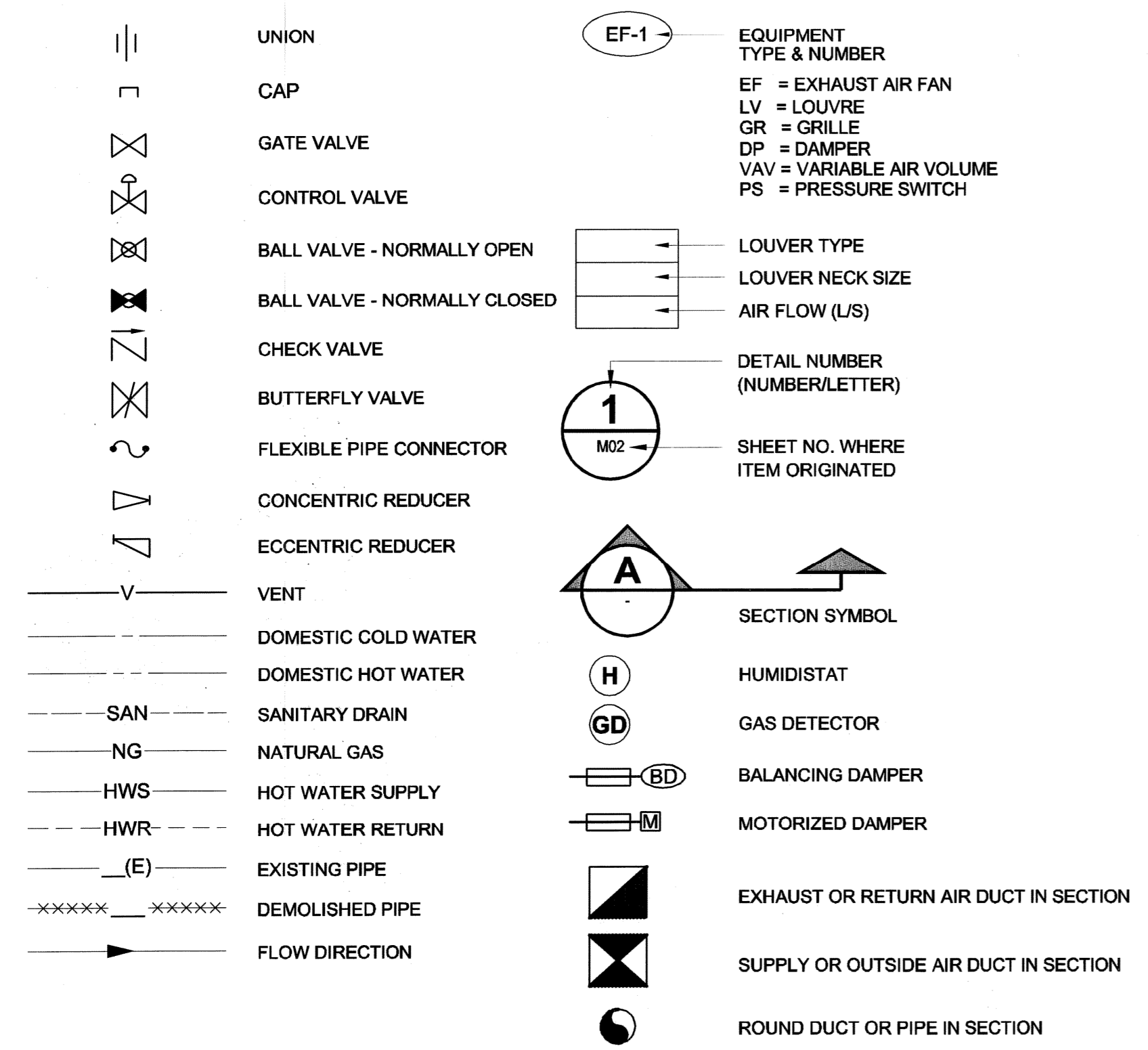


LEGEND



GENERAL NOTES:

- DIMENSIONS AND BUILDING ORIENTATION SHOWN ON THE DRAWING ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EQUIPMENT/BUILDING LOCATIONS AND DIMENSIONS ON SITE.
- PATCH ALL OPENINGS REMAINING AFTER EQUIPMENT, DUCT, OR PIPING INSTALLATION/REMOVALS. PATCHING TO ACHIEVE COLOUR MATCHED FINISH OF LIKE MATERIALS TO THE SURROUNDING SURFACE MATERIAL.
- CUT ALL NEW OPENINGS REQUIRED FOR NEW INSTALLATIONS OR DEMOLITION WORK USING DUE CARE AND APPROPRIATE TOOLS AND METHODS TO MAINTAIN THE INTEGRITY OF THE STRUCTURE/ASSEMBLY IN WHICH THE OPENING IS BEING CUT. MECHANICAL CONTRACTOR SHALL SUPPLY GALVANIZED STEEL SHEET METAL AND SLEEVES FOR EQUIPMENT PENETRATING THE WALL.
- ELECTRICALLY ISOLATE ALL DISSIMILAR METALS.
- PROVIDE ADDITIONAL FRAMING AT ALL WALL PENETRATIONS.
- PERFORM ALL WORK IN CO-ORDINATION WITH ALL OTHER TRADES AND CONTRACTORS. PROVIDE COMPLETE FUNCTIONAL AND CODE COMPLIANT SYSTEMS.
- CONTRACTOR IS RESPONSIBLE FOR TAKING OUT PERMITS AND PAYING ALL FEES RELATED TO DEMOLITION/MODIFICATION OF THE EXISTING SYSTEMS, CONSTRUCTION, MODIFICATION AND INSTALLATION OF NEW SYSTEMS.
- DEMOLITION/MODIFICATION/DISPOSAL/INSTALLATION OF MECHANICAL WHICH INVOLVE NATURAL GAS PIPING AND EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANITOBA FIRE CODE, REGULATIONS, INDUSTRY STANDARDS AND LOCAL BYLAWS.
- USE SKILLED AND LICENSED LABOURERS AND JOURNEYMEN TO PERFORM ALL WORK.
- ALL WASTE IS TO BE DISPOSED OFF SITE IN AN APPROVED FACILITY LICENSED TO ACCEPT SUCH WASTE.
- CONTRACTOR IS RESPONSIBLE TO REMOVE ANY CONTAMINATED OR HAZARDOUS WASTE/REFUSE, WHICH IS CAUSED BY THIS CONSTRUCTION WORK, AND TO DISPOSE THEM OFF SITE AS PER CODE.
- CONTRACTOR TO PROVIDE PROTECTION TO OWNER EQUIPMENT DURING CONSTRUCTION. WORK WITH EXTREME CARE AROUND OPERATING EQUIPMENT.
- COORDINATE THE TIMING, DURATION AND SAFETY REQUIREMENTS FOR SHUT-DOWNS TO ALLOW PIPING TIE-INS AND WORK IN HAZARDOUS ATMOSPHERE WITH THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT.
- VERIFY CONFINED SPACES ENTRY REQUIREMENTS WITH CITY PRIOR TO ENTERING SUCH SPACES.
- CONTRACTOR SHALL PROVIDE REQUIRED PERSONNEL FACILITIES FOR STAFF ON SITE.

DESIGN NOTES:

GARAGE VENTILATION TO MAINTAIN:
 - CO < 25 ppm
 - NO₂ < 3 ppm
 VENTILATION MAKE UP AIR MAX. 27°C TEMPERATURE RISE
 EXHAUST FANS STAGED ACCORDING TO GAS DETECTION LEVELS STARTING AT:
 - CO = 12.5 ppm
 - NO₂ = 1.5 ppm

FAN SCHEDULE										
ITEM	LOCATION	MANUFACTURER AND MODEL No.	AIRFLOW (LPS)	FAN SIZE	ESP (Pa)	RPM	BHP	MOTOR HP	VOLTAGE / PHASE	ACCESSORIES
EF-1	FORESTRY GARAGE	NORTHERN BLOWER MODEL 7410 SIZE 2700	4250	SIZE 2700	125	1510	1.81	3	208/3	VERTICAL INSTALLATION, MOTOR HOUSING & BELT GUARD
EF-2	FORESTRY GARAGE	NORTHERN BLOWER MODEL 7410 SIZE 2700	4250	SIZE 2700	125	1510	1.81	3	208/3	VERTICAL INSTALLATION, MOTOR HOUSING & BELT GUARD
EF-3	FORESTRY GARAGE	NORTHERN BLOWER MODEL 7410 SIZE 2700	4250	SIZE 2700	125	1510	1.81	3	208/3	VERTICAL INSTALLATION, MOTOR HOUSING & BELT GUARD
EF-4	FORESTRY GARAGE	NORTHERN BLOWER MODEL 7410 SIZE 2700	4250	SIZE 2700	125	1510	1.81	3	208/3	VERTICAL INSTALLATION, MOTOR HOUSING & BELT GUARD
EF-5	CHAINSAW REPAIR DUST COLLECTION	TORIT VS-2400	1,130					5	230/460	OWNER PROVIDED EXISTING EQUIPMENT TO BE RELOCATED BY CONTRACTOR FROM 401 PANDORA WEST SHOP

NOT IN CONTRACT

OWNER PROVIDED EXISTING EQUIPMENT TO BE RELOCATED BY CONTRACTOR FROM 401 PANDORA WEST SHOP

GRILLE SCHEDULE				
ITEM	MANUFACTURER AND MODEL No.	SIZE	AIRFLOW (LPS)	ACCESSORIES
SA-A	EH PRICE 152D	SEE DWGS	SEE DWGS	WHITE POWDER COAT FINISH. BLADES DEFLECTION 45°
SA-B	EH PRICE 302	SEE DWGS	SEE DWGS	WHITE POWDER COAT FINISH. BLADES DEFLECTION 15°
RA-A	EH PRICE TSF80	SEE DWGS	SEE DWGS	WHITE POWDER COAT FINISH.

GAS DETECTOR SCHEDULE			
ITEM	LOCATION	MANUFACTURER AND MODEL No.	GAS DETECTED
GD-1	FORESTRY GARAGE	HONEYWELL VULCAIN VA-201M	NOx, CO
GD-2	FORESTRY GARAGE	HONEYWELL VULCAIN VA-201M	NOx, CO
GD-3	FORESTRY GARAGE	HONEYWELL VULCAIN VA-201M	NOx, CO
GD-4	FORESTRY GARAGE	HONEYWELL VULCAIN VA-201M	NOx, CO

MAKE UP AIR UNIT SCHEDULE							
ITEM	LOCATION	MANUFACTURER AND MODEL No.	LPS	TSP (Pa)	OUTPUT MBH	MOTOR HP	DETAILS
MAU-1	FORESTRY GARAGE MEZZANINE	ICE MANUFACTURING BMA 127	12,750	250	3,208	25	
MAU-2	FORESTRY GARAGE MEZZANINE	EXISTING MAU	4,250	250	990	EXISTING	EXISTING UNIT TO REMAIN IN PLACE
MAU-3	OUTSIDE FORESTRY GARAGE SOUTH	ICE MANUFACTURING HTDM 400	1415	250	328	2	

NOT IN CONTRACT

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NO.	REVISION/DESCRIPTION	BY	DATE
E	ISSUED FOR ADDENDUM No. 1	ALS	07/11/14
D	ISSUED FOR TENDER	ALS	07/11/12
C	ISSUED FOR FINAL REVIEW	ALS	07/10/13
B	ISSUED FOR 100% REVIEW	ALS	07/09/12
A	ISSUED FOR CLIENT REVIEW	ALS	07/06/12



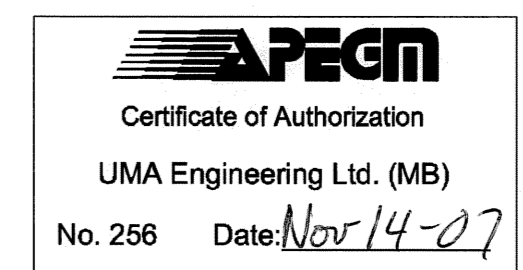
DRAWN BY: R.P. CHECKED BY: USER APPROVAL
 DATE: 2007.05.09

CITY OF WINNIPEG
 PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
 CIVIC ACCOMMODATIONS DIVISION
 300 - 65 GARRY ST. R3C 4K4

PROJECT
 CONSTRUCTION OF OFFICE/GARAGE RENOVATIONS AND STORAGE BUILDING AT 1539 WAVERLEY STREET
 1539 Waverley Street, Winnipeg, MB.

SHEET TITLE
 MECHANICAL
 GENERAL NOTES, LEGEND & SCHEDULES

SCALE: N/A PROJECT NO: 0265-395-02 SHEET NO: GEN - M1.1



ALS	DRN	CHK	DES	ENG	IDR
UMA AECOM REVIEW					