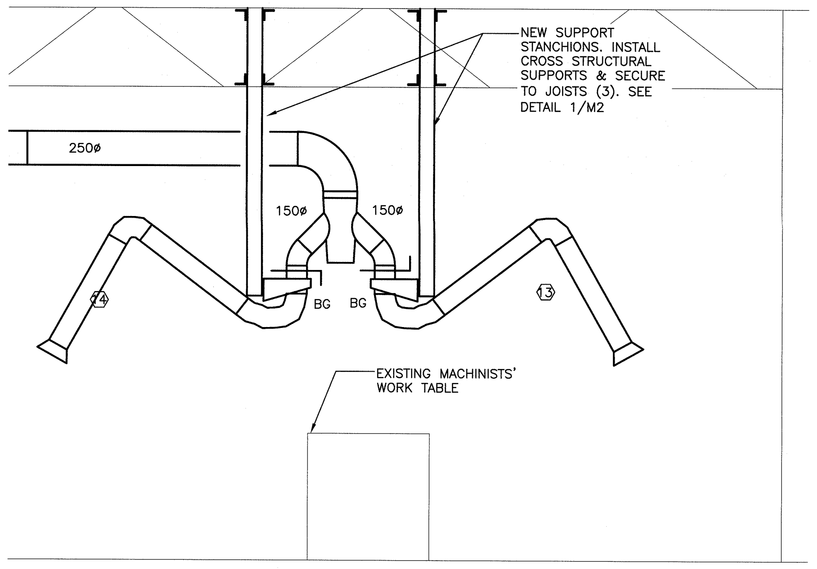
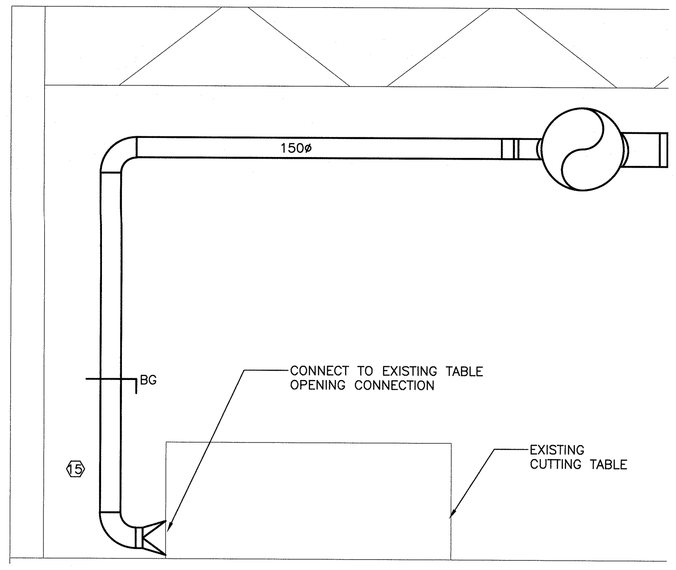


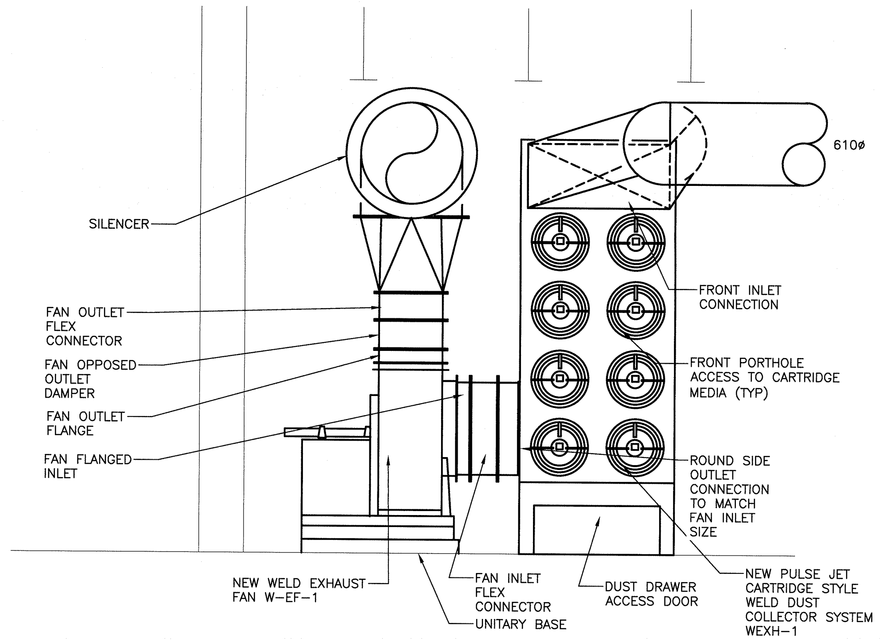
A M1|M1 SECTION–REVISED MECHANICAL

NOT TO SCALE



B M1|M1 SECTION–REVISED MECHANICAL

NOT TO SCALE



C M1|M1 SECTION–REVISED MECHANICAL

SCALE: NTS

0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTES:

1. SUPPLY AND INSTALL NEW 600V, 2 POLE BREAKER IN EXISTING 600V PANELBOARD 302 TO PROVIDE OVER CURRENT PROTECTION TO NEW EQUIPMENT.

WELD EXHAUST COLLECTOR SYSTEM SCHEDULE

TAG	AREA SERVED	TYPE	MAKE	MODEL NUMBER	POWER SUPPLY (V/HZ/PH)	UNIT DIMENSIONS (MM)	REMARKS
WEXH–1	MACHINE SHOP	FLOOR MOUNTED	UNITED AIR SPECIALISTS INC	SFC 16–4	575/ 3 /60	1145 FACE WIDTHx 2320 DEPTHx 3153 HEIGHT	C/W SIXTEEN NANOFIBER FIRE RETARDENT CARTRIDGE FILTERS, DUST DRAWER CONFIGURATION, AUTOMATIC REVERSE PULSE JET CLEANING SYSTEM, DIGITAL PRESSURE AND PULSE CONTROL PANEL (WITH DIGITAL PHOTOHELIC GAUGE, MOTOR STARTER, EXHAUST FAN, SILENCER, SAFETY RETURN FILTER, SPRINKLER COUPLING, SOLENOID VALVE. AIR PROVING SWITCH AND ASSOCIATED CONTROL CONTACTS, ALARM OUTPUT

NOTES: WELD EXHAUST EXTRACTION SYSTEM:
PLYMOVENT WELD EXHAUST EXTRACTION SYSTEM REQUIRED TO REMOVE THE WELDING FUMES BEING GENERATED IN THE ROOM. THE WELD EXHAUST SYSTEM WILL BE COMPLETE WITH THE FOLLOWING EQUIPMENT
10 – PLYMOVENT MODEL KUA–2 WELD FUME EXTRACTION ARMS, 152mm(6.25")ø, 2134mm (7FT) LONG, WITH SUPPORT BRACKET, COLLECTION HOOD, & SUPPORT STANCHIONS

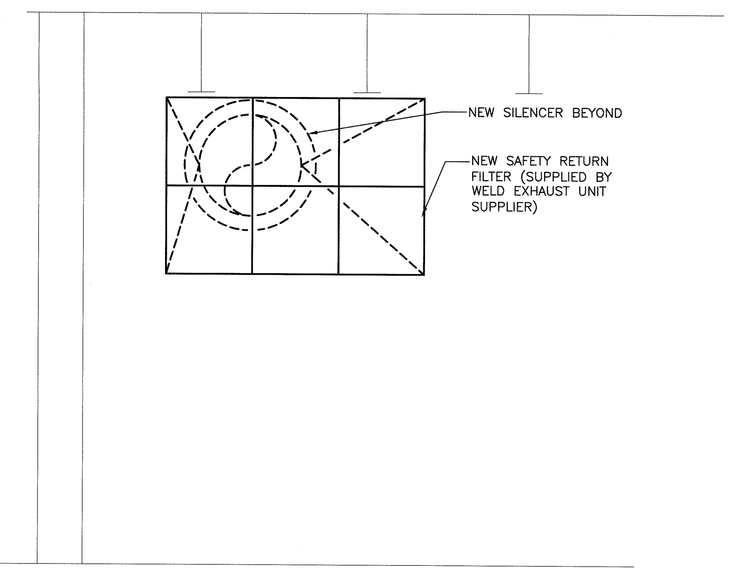
WELD EXHAUST COLLECTOR EXHAUST FAN SCHEDULE

TAG	LOCATION	MAKE	SERIES	ARR/CLASS	LPS(CFM)	ESP Pa(IN)	MOTOR KW (HP)	POWER SUPPLY (V/HZ/PH)	REMARKS
W–EF–1	FLOOR MOUNTED	NEW YORK	SWSI SIZE 24	ARR#1/CLASS III	5354 (11,350)	2500 (10.0)	22.3 (30)	575/3/60	C/W PLR WHEEL, BELT, BEARIING, SHAFT GUARD, ACCESS DOOR, V BELT DRIVE, FLANGED INLET AND OUTLET WITH FLEX CONNECTIONS, UNITARY BASEW SPRING VIBRATION ISOLATORS AND AN OPPOSED BLADE OUTLET DAMPER

NOTES:
– UNIT TO BE SUPPLIED WITH A DISCONNECT, AND A 1220 MM DISCHARGE SILENCER

AIR BALANCE SCHEDULE

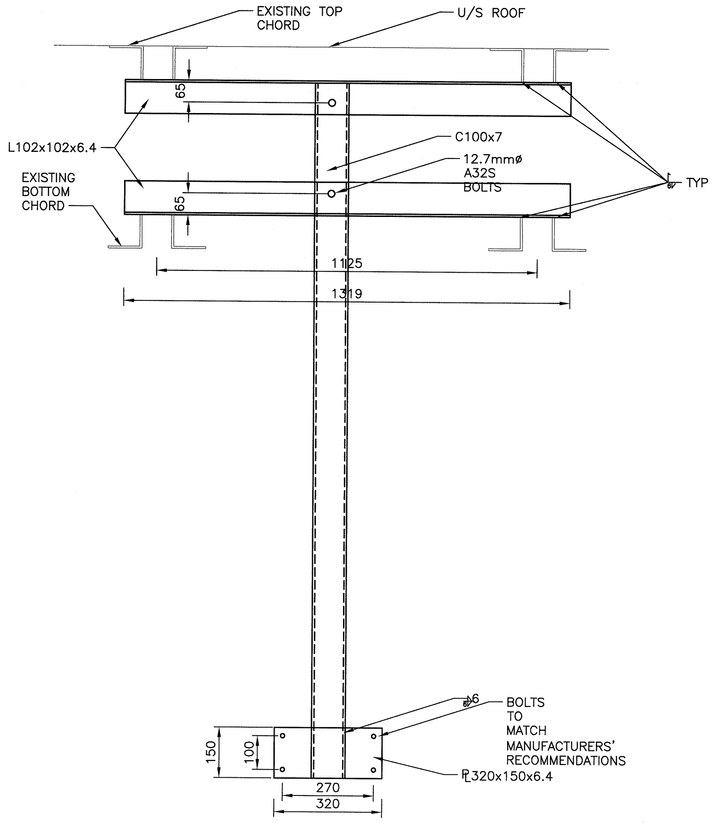
TAG	EQUIPMENT DESCRIPTION	MIN EXHAUST FLOW RATE LPS (CFM)
1	EXISTING HOOD 1 EH–1	387 (820)
2	EXISTING HOOD 2 EH–2	387 (820)
3	EXISTING HOOD 3 EH–3	387 (820)
4	EXISTING HOOD 4 EH–4	353 (820)
5	WELD FUME EXTRACTION ARM 1 WFE–1	353 (750)
6	WELD FUME EXTRACTION ARM 2 WFE–1	353 (750)
7	WELD FUME EXTRACTION ARM 3 WFE–1	353 (750)
8	WELD FUME EXTRACTION ARM 4 WFE–1	353 (750)
9	WELD FUME EXTRACTION ARM 5 WFE–1	353 (750)
10	WELD FUME EXTRACTION ARM 6 WFE–1	353 (750)
11	WELD FUME EXTRACTION ARM 7 WFE–1	353 (750)
12	WELD FUME EXTRACTION ARM 8 WFE–1	353 (750)
13	WELD FUME EXTRACTION ARM 9 WFE–1	353 (750)
14	WELD FUME EXTRACTION ARM 10 WFE–1	353 (750)
15	EXISTING CUTTING TABLE	400 (850)



D M1|M1 SECTION–REVISED SAFETY RETURN HEPA FILTER

SCALE: NTS

0mm 500mm 1000mm 1500mm 2000mm 2500mm



1 M2.0|M2.0 DETAIL – TYPICAL SUPPORT FOR WELDING ARM

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

CBCL LIMITED
Consulting Engineers

REGISTERED PROFESSIONAL ENGINEER – PROVINCE OF NOVA SCOTIA – DATE Dec 7/16 – D. ARSENAULT – 7486

revisions		date
0	ISSUED FOR TENDER	12/07 2016
1	ISSUED FOR REVIEW	11/10 2016

project / projet

CANADIAN COAST GUARD COLLEGE
MACHINE SHOP
WELDING LAB EXHAUST
SYDNEY, NS

drawing / dessin

MECHANICAL

HVAC
ELEVATIONS
& SCHEDULES

designed DONNIE ARSENAULT / conçu
date DECEMBER, 2015
drawn STAFF / dessiné
date DECEMBER, 2015
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet
R 065476.617

drawing no. / no. du dessin
M–2

E–DRM/GDD–E: 547742

PWGSC B1 (2004)

0 10 20mm 40 60 80 100 120 140 160 180 200mm