

NEATBY BUILDING - LABORATORY FUME HOODS REPLACEMENT & HVAC UPGRADES

960 CARLING AVE., OTTAWA
MECHANICAL & ELECTRICAL DRAWINGS



Goodkey Weedmark
Consulting Engineers

GWA 2016-148

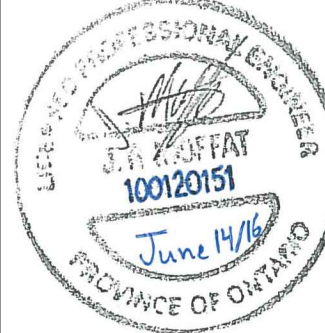
National Centre of Expertise
Architectural and Engineering Services
Real Property Services Branch

Centre d'expertise national
Services d'architecture et génie
Direction générale des services immobiliers

Mechanical Seal/Sceau



Electrical Seal/Sceau

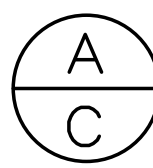


KEY PLAN
PLAN-REP?RE

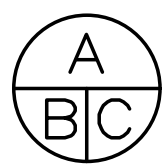
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revision date



A detail no.
no. du détail
B location drawing no.
no. de localisation
C drawing no.
no. du dessin



project projet

**NEATBY BUILDING
LABORATORY FUME
HOODS REPLACEMENT &
HVAC SYSTEMS UPGRADE**
960 CARLING AVE. OTTAWA

drawing dessin

**DRAWING LIST, LEGENDS
& SCHEDULES**

designed S.HAMILTON & E.YEH conçu

date

drawn C.LALONDE & E.YEH dessiné

date

revised S.HAMILTON & W.NEEDHAM révisé

date

approved approuvé

date

tender SOHEILA KIANI soumission

PWC Project Manager Administrateur de projets TPC

project no. no. du projet

PWGSC #R.078014.001

drawing no. no. du dessin

ME0.1

DRAWING LIST

SYMBOL	DESCRIPTION
ME0.1	DRAWING LIST, LEGENDS & SCHEDULES
ME1.1	MECHANICAL & ELECTRICAL - GROUND FLOOR - HVAC - DEMOLITION & NEW WORK
ME1.2	MECHANICAL & ELECTRICAL - SECOND FLOOR - HVAC - DEMOLITION & NEW WORK
ME1.3	MECHANICAL & ELECTRICAL - THIRD FLOOR - HVAC - DEMOLITION & NEW WORK
ME1.4	MECHANICAL & ELECTRICAL - FOURTH FLOOR - HVAC - DEMOLITION & NEW WORK

GENERAL LEGEND

SYMBOL	DESCRIPTION
————	EXISTING PIPING/DUCTWORK/EQUIPMENT
-----	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
————	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(N)	DENOTES NEW EQUIPMENT

HVAC/CONTROLS LEGEND

SYMBOL	DESCRIPTION
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
	ROUND DUCTWORK OFFSET
	RECTANGULAR DUCTWORK OFFSET
	DUCTWORK UP
	DUCTWORK DOWN
	RECTANGULAR TO ROUND TRANSITION
	TAKE-OFF C/W BALANCING DAMPER
	TAKE-OFF
	ROUND TAKE-OFF

ELECTRICAL LINE TYPE LEGEND

LINE TYPE	DESCRIPTION
————	NEW WORK TO BE COMPLETED
————	EXISTING TO REMAIN
-----	EXISTING TO BE REMOVED

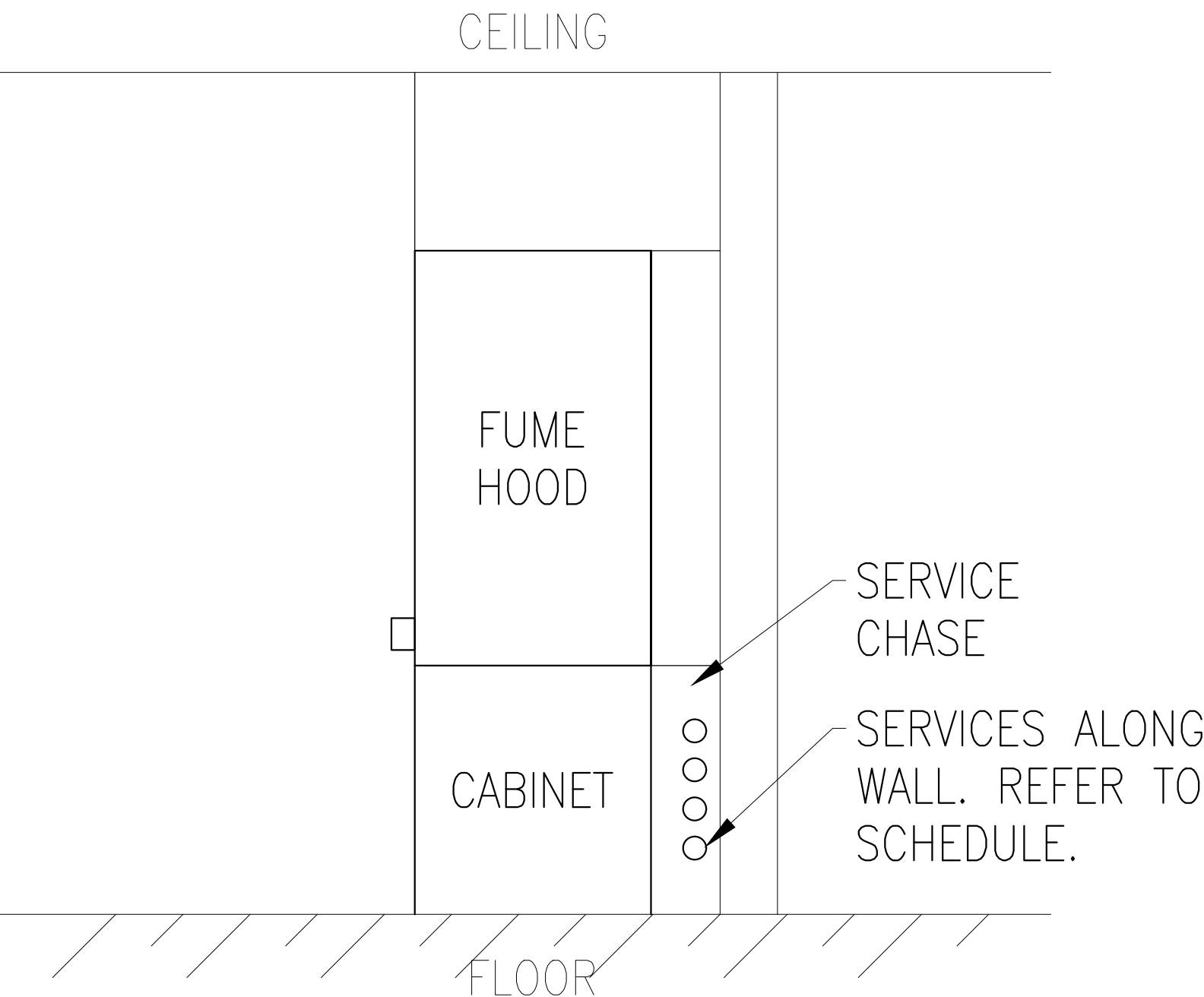
ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	FLUORESCENT LIGHTING FIXTURE INCLUDED/BUILT INTO FUME HOOD
E	EXISTING 105x1219 FLUORESCENT LIGHTING FIXTURE
	SIDE MOUNTED LIGHT BUILT INTO FUME HOOD
	LIGHT SWITCH INCLUDED/BUILT INTO FUME HOOD
	DUPLEX RECEPTACLE INCLUDED/BUILT INTO FUME HOOD
	RECESSED ELECTRICAL PANEL

FUME HOOD SUMMARY

PRIORITY	LAB ROOM NO.	FUME HOODS ID	TRANSITE PANEL?	FUME HOOD WIDTH (m)	NEW FUME HOOD DUCT COLLAR (mm)	EXISTING EXHAUST DUCT MATERIAL	EXHAUST DUCT SIZE (mm)	SERVICES CONNECTION REQUIRED						REMARKS
								COLD WATER ONLY	COLD & HOT WATER	NATURAL GAS	COMPRESSED AIR	ELECTRICAL RECEPTACLE	VACUUM	
13	1001	30-270-105	YES	1.5	300	TRANSITE	250							FUME HOOD TO BE REMOVED AND NOT REPLACED.
4	1010	30-270-136	YES	1.5	300	TRANSITE	250					X		--
15	1043	30-270-233	YES	1.5	300	STAINLESS STEEL	250					X	X	50mm VACUUM PIPE SUPPORTED OFF SIDE OF HOOD.
7	1045	30-270-247	YES	1.2	250	STAINLESS STEEL	250	X			X	X	X	--
16	1047	30-270-248	YES	1.2	250	STAINLESS STEEL	250				X	X	X	DI WATER PIPE SUPPORTED OFF SIDE OF HOOD.
10	2034	30-270-173B	YES	1.5	300	STAINLESS STEEL	250							FUME HOOD TO BE REMOVED AND NOT REPLACED.
20	2035	30-270-177	YES	1.2	250	STAINLESS STEEL	250	X		X	X	X	X	--
11	2036	30-270-187B	YES	1.5	300	STAINLESS STEEL	250	X		X	X	X	X	SHARES COMMON EXHAUST DUCT WITH ADJACENT FUME HOOD.
3	2037	30-270-189	YES	1.5	300	TRANSITE	250				X	X		NEW GAS PIPE REQUIRED. EXISTING IS CAPPED WITH NOTE AT VALVE INDICATING PIPE IS LEAKING.
19	2038	30-270-221	YES	1.2	250	STAINLESS STEEL	250	X		X	X	X	X	--
17	2039	30-270-205	YES	1.5	300	TRANSITE	250				X	X		--
5	3044	30-270-229	YES	1.5	300	TRANSITE	250			X		X	X	--
9	4013	30-270-129	YES	1.5	300	TRANSITE	200		X	X	X	X	X	VACUUM AND OUTLET MOUNTED ON SIDE OF HOOD, TURN VACUUM OVER TO CLIENT
1	4038	30-270-199	YES	1.5	300	TRANSITE	250				X	X	X	COMPRESSED AIR HOSE/FILTER SUPPORTED OFF SIDE OF HOOD.
2	4039	30-270-207	YES	1.5	300	STAINLESS STEEL	250	X			X	X	X	SHARES COMMON EXHAUST DUCT WITH ADJACENT FUME HOOD.
12	4042	30-270-213	YES	1.5	300	STAINLESS STEEL	250	X			X	X	X	SHARES COMMON EXHAUST DUCT WITH ADJACENT FUME HOOD.
8	4044	30-270-231	YES	1.5	300	STAINLESS STEEL	250	X	X	X	X	X	X	--
6	4048	30-270-255	YES	1.5	300	STAINLESS STEEL	250	X	X	X	X	X	X	--
14	4048	30-270-253	YES	1.5	300	STAINLESS STEEL	250	X	X	X	X	X	X	--

NOTES
1. NEW FUME HOOD WIDTH TO MATCH EXISTING.
2. ALLOW FOR RE-SUPPORTING OF EQUIPMENT CURRENTLY SUPPORTED OFF OF EXISTING FUME HOOD.



**TYPICAL FUME HOOD
SERVICE CHASE DETAIL**

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ME0.1 N.T.S.