



PARTIAL DISTRIBUTION RISER
SCALE: NTS

DISTRIBUTION RISER NOTES

- REFER TO SPECIFICATION FOR INFORMATION REGARDING MOULDED CASE CIRCUIT BREAKERS.
- ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)
- INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT.
- ALL LIGHTING CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH CONDUITS ACCORDINGLY.

PANEL EXIST. 'LPJ'														
MAINS: 100.0 A			VOLTAGE: 120/208 3P4W				INTERRUPTING CAPACITY: 10,000							
MOUNTING: SURFACE			NEUTRAL BUS: 100.00%				ENCLOSURE: TYPE 2							
MAKE/MODEL: FPE NLAB														
DES	CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT	DES
ER	1	FAN ROOM LIGHTS	--	15.0 A	1				1	15.0 A	--	FAN ROOM RECEPTACLE	2	ER
ER	3	WASHROOM LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOM 218 RECEPTACLE	4	ER
ER	5	HALL LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOM 322 PROJECTOR	6	ER
ER	7	HALL LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOMS 325/326 PROJECTOR	8	ER
ER	9	HALL RECEPTACLE	--	20.0 A	1				1	15.0 A	--	EMERGENCY LIGHTS	10	ER
ER	11	STAFF ROOM A/C	--	15.0 A	1				1	15.0 A	--	BAS CONTROL	12	ER
ER	13	STAFF ROOM A/C	--	15.0 A	1				2	15.0 A	--	PUMP-10	14	ER
ER	15	ROOM 325 PROJECTOR	--	15.0 A	1				2	15.0 A	--	PUMP-10	16	ER
ER	17	SPARE	--	15.0 A	1				2	30.0 A	--	GIRLS HAND DRYER	18	ER
ER	19	SPACE	--	--	1				1	--	--	SPACE	20	ER
ER	21	SPACE	--	--	1				1	--	--	SPACE	22	ER
ER	23	SPACE	--	--	1				1	--	--	SPACE	24	ER
ER	25	SPACE	--	--	1				1	--	--	SPACE	26	ER
ER	27	SPACE	--	--	1				1	--	--	SPACE	28	ER
ER	29	SPACE	--	--	1				1	--	--	SPACE	30	ER

DESIGNATION (DES):
 'ER' INDICATES EXISTING SERVICE AND BREAKER THAT SHOULD REMAIN UNTOUCHED
 'SP' INDICATES EXISTING BREAKER THAT MAY BECOME SPARE DUE TO DEMOLITION. (CONFIRM ON SITE)
 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE DEVICES INDICATED ON PLAN
 'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED.
 'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PROVIDE MOUNTING HARDWARE AS REQUIRED.
 'D' INDICATES EXISTING BREAKER TO BE REMOVED COMPLETE. PROVIDE FILLER PLATES AS REQUIRED.

NOTES:
 THIS CONTRACTOR IS TO INVESTIGATE BREAKERS AND REVISE PANEL SCHEDULES TO SUIT RENOVATION. NOTING ANY BREAKERS THAT BECOME SPARE DUE TO DEMOLITION. THIS CONTRACTOR IS ALSO TO NOTIFY THE CONSULTANT OF ANY BREAKERS THAT ARE INDICATED TO BE DEMOLISHED OR REUSED, BUT WHICH ARE IN USE BY OTHER DEVICES OR SERVICES.

NEW PANEL 'LPJ'														
MAINS: 100.0 A			VOLTAGE: 120/208 3P4W				INTERRUPTING CAPACITY: 10,000							
MOUNTING: SURFACE			NEUTRAL BUS: 100.00%				ENCLOSURE: TYPE 2							
MAKE/MODEL: ITE - NLAB														
DES	CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT	DES
ER	1	FAN ROOM LIGHTS	--	15.0 A	1				1	15.0 A	--	FAN ROOM RECEPTACLE	2	ER
ER	3	WASHROOM LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOM 218 RECEPTACLE	4	ER
ER	5	HALL LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOM 322 PROJECTOR	6	ER
ER	7	HALL LIGHTS	--	15.0 A	1				1	15.0 A	--	ROOMS 325/326 PROJECTOR	8	ER
ER	9	HALL RECEPTACLE	--	20.0 A	1				1	15.0 A	--	EMERGENCY LIGHTS	10	ER
ER	11	STAFF ROOM A/C	--	15.0 A	1				1	15.0 A	--	BAS CONTROL	12	ER
ER	13	STAFF ROOM A/C	--	15.0 A	1				2	15.0 A	--	PUMP-10	14	ER
ER	15	ROOM 325 PROJECTOR	--	15.0 A	1				2	15.0 A	--	PUMP-10	16	ER
ER	17	SPARE	--	15.0 A	1				2	30.0 A	--	GIRLS HAND DRYER	18	ER
NB	19	P-10	--	15.0 A	3				1	15.0 A	--	CP-2	22	NB
NB	21		--	15.0 A	1				1	15.0 A	--	MOTORIZED DAMPER MD	24	NB
NB	23		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	26	NB
NB	25		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	28	NB
NB	27		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	30	NB
NB	29		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	32	NB
NB	31		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	34	NB
NB	33		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	36	NB
NB	35		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	38	NB
NB	37		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	40	NB
NB	39		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	42	NB
NB	41		--	15.0 A	1				1	15.0 A	--	FIRE SMOKE DAMPERS	44	NB

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 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE DEVICES INDICATED ON PLAN
 'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED.
 'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PROVIDE MOUNTING HARDWARE AS REQUIRED.
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PANEL HM4														
MAINS: 200.0 A			VOLTAGE: 347/600V 3P4W				INTERRUPTING CAPACITY: 22,000							
MOUNTING: SURFACE			NEUTRAL BUS: 100.00%				ENCLOSURE: TYPE 2							
MAKE/MODEL: SQUARE D - I LINE														
DES	CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT	DES
ER	1	TRANSFORMER 'XF-LM3' (75 KVA)		90.0 A	3				3	20.0 A		CU-3A	2	ER
ER	3												4	ER
ER	5												6	ER
ER	7												8	ER
ER	9	CU-3B		20.0 A	3				3	20.0 A		CU-3C	10	ER
ER	11												12	ER
ER	13												14	ER
ER	15	SPARE	--	15.0 A	3				3	15.0 A	--	SPARE	16	ER
ER	17												18	ER
ER	19	SPACE	--	--	1				1	--	--	SPACE	20	ER
ER	21	SPACE	--	--	1				1	--	--	SPACE	22	ER
ER	23	SPACE	--	--	1				1	--	--	SPACE	24	ER
ER	25	SPACE	--	--	1				1	--	--	SPACE	26	ER
NB	27	CU-2A		25.0 A	3				3	25.0 A		CU-2B	28	NB
NB	29												30	NB
NB	31	SPACE	--	--	1				1	--	--	SPACE	32	NB
NB	33	SPACE	--	--	1				1	--	--	SPACE	34	NB
NB	35	SPACE	--	--	1				1	--	--	SPACE	36	NB
NB	37	SPACE	--	--	1				1	--	--	SPACE	38	NB
NB	39	SPACE	--	--	1				1	--	--	SPACE	40	NB
NB	41	SPACE	--	--	1				1	--	--	SPACE	42	NB

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PANEL LM4														
MAINS: 400.0 A			VOLTAGE: 120/208 3P4W				INTERRUPTING CAPACITY: 10,000							
MOUNTING: SURFACE			NEUTRAL BUS: 100.00%				ENCLOSURE: TYPE 2							
MAKE/MODEL: SQUARE D - NQ48L4C														
DES	CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT	DES
ER	1												2	ER
ER	3	CU-1		80.0 A	3				3	40.0 A		CU-2	4	ER
ER	5												6	ER
ER	7												8	ER
ER	9	AHU-1 SUPPLY		50.0 A	3				3	25.0 A		AHU-1 RETURN	10	ER
ER	11												12	ER
ER	13	AHU-1 CONTROLS	--	15.0 A	1				3	15.0 A	--	AHU-1 ERV	14	ER
ER	15												16	ER
ER	17	DS-1		15.0 A	2				2	15.0 A		AHU-1 ERV	18	ER
ER	19												20	ER
ER	21	DS-3		15.0 A	2				2	15.0 A		DS-2	22	ER
ER	23												24	ER
ER	25	DS-5		15.0 A	2				2	15.0 A		DS-4	26	ER
ER	27												28	ER
ER	29	DS-7		15.0 A	2				2	15.0 A		DS-6	30	ER
ER	31												32	ER
ER	33	DS-9		15.0 A	2				2	15.0 A		DS-8	34	ER
ER	35												36	ER
ER	37	DS-11		15.0 A	2				2	15.0 A		DS-10	38	ER
ER	39												40	ER
ER	41	DS-13		15.0 A	2				2	15.0 A		DS-12	42	ER
ER	43												44	ER
ER	45	MOTORIZED DAMPER MD-1		15.0 A	1				2	15.0 A		DS-14	46	ER
ER	47												48	ER
ER	49	ROOF RECEPTACLE		20.0 A	1				1	25.0 A		EF-1	50	ER
ER	51	'HEAT TRACE		15.0 A	2				2	15.0 A		BSB-3A	52	ER
ER	53												54	ER
ER	55	'HEAT TRACE	--	15.0 A	2				2	15.0 A	--	BSB-3B	56	ER
ER	57												58	ER
ER	59	CP-2	--	15.0 A	2				2	15.0 A	--	BSB-3C	60	ER
NB	61												62	NB
NB	63	AHU-2B - RETURN EXHAUST FAN		25.0 A	3				3	40.0 A		CU-4	64	NB
NB	65												66	NB
NB	67	AHU-2A - SUPPLY FAN		50.0 A	3				1	20.0 A		ROOF CONVENIENCE RECEPTACLE	68	NB
NB	69											AHU-2D - CONTROLS	70	NB
NB	71											FIRE SMOKE DAMPER - STAFF OFFICE 420	72	NB
NB	73	BSB-5A		15.0 A	2				1	15.0 A		MOTORIZED DAMPER - BOYS WR 419	74	NB
NB	75												76	NB
NB	77	BSB-5B		15.0 A	2				2	15.0 A		WALL MOUNTED AC UNITS DS-19/20	78	NB
NB	79												80	NB
NB	81	WALL MOUNTED AC UNITS DS-15/16/17/18		15.0 A	2				3	15.0 A		AHU-2C - ERV	82	NB
NB	83	EF-1		15.0 A	1				1	15.0 A			84	NB

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* INDICATES 33mA GROUND FAULT STYLE BREAKER.

DEI Consulting Engineers Inc.
 MECHANICAL, ELECTRICAL, PLUMBING
 Project Number: 25407
 The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
 The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of services from Consultant before commencement of the work.
 The drawings do not indicate all offsets, fittings and accessories which may be required. Provide the same to meet the required conditions.
 Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
 Do not scale this drawing.
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