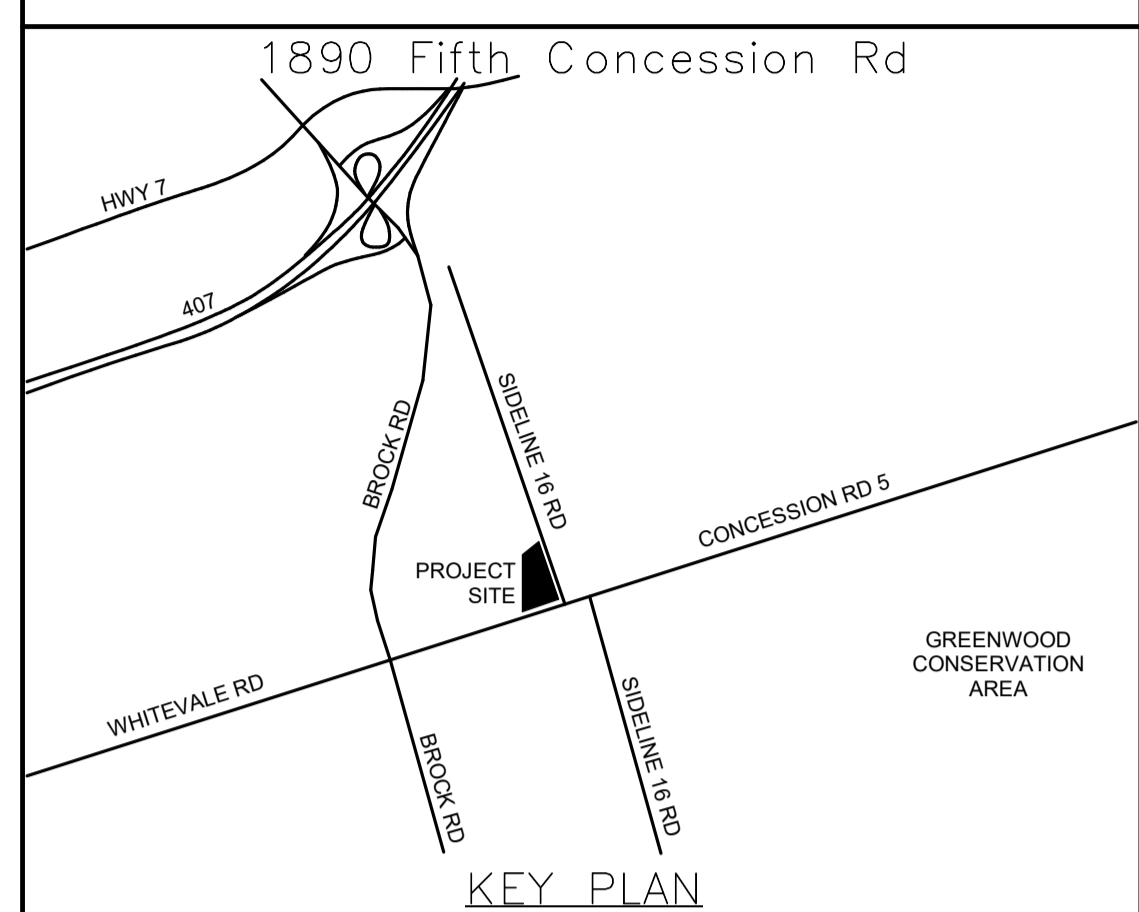


1 POWER PLAN - MAIN FLOOR
A-003.1 E-301 1 : 125

POWER PLAN KEYNOTES	
NUMBER	KEYNOTE
1	SPECIAL DROP RECEPTACLE ARRANGEMENT SPECIFIC TO EMERGENCY SERVICE AMBULANCES. REFER TO 7/E603 FOR DETAIL.
2	REFER TO 1/E603 FOR UNIVERSAL WASHROOM DETAIL.
3	6-GANG OUTLET BOX C/W PUSHBUTTONS AND PROVIDE 21mm CONDUIT FOR OVERHEAD DOOR OPERATORS. REFER TO 1/E604 FOR DETAIL.
4	2 RACEWAY WITH PLUG IN OUTLETS EQUAL TO LEGRAND RACEWAY 4000 SERIES.
5	EPO TO SHUTDOWN ALL POWER CONNECTIONS AND RECEPTACLES IN THE KITCHEN. REFER TO DETAIL 4 ON DRAWING E604.
6	SPECIAL DROP RECEPTACLE ARRANGEMENT SPECIFIC TO EMERGENCY SERVICE AMBULANCES. REFER TO 7/E302 FOR DETAIL.
7	PROVIDE JUNCTION BOX C/W 21mm CONDUIT TO THE DOOR OPERATOR FOR THE PHOTOCELL. EXACT LOCATION TO BE COORDIANATED ON SITE.
8	ALL DEVICES AND CONDUITS WITHIN VEHICLE BAY SHALL BE WEATHERPROOF TO ALLOW FOR WASHDOWN.

POWER PLAN KEYNOTES	
NUMBER	KEYNOTE
9	WALL MOUNTED WIREMOLD RACEWAY EQUAL TO LEGRAND RACEWAY SERIES 4000 (ABOVE COUNTER, TYP.)
10	SYSTEM FURNITURE SHALL BE WIRED IN 8T CONFIGURATION. REFER TO DETAIL 3 ON DRAWING E602 FOR DETAILS.
11	RECEPTACLE SHALL BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL DEVICE. REFER TO LIGHTING CONTROLS MATRIX FOR MORE DETAILS.
12	RECEPTACLE SHALL BE MOUNTED 1450mm FROM WALL. COORDINATE WITH SYSTEM FURNITURE SUPPLIER.

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



CONSULTANT REVISIONS			
NO.	DATE	NAME	REVISIONS

PRIME CONSULTANT

AECOM

AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

SUB CONSULTANT

DESIGN BY: GR	SCALE: 1 : 125
DRAWN BY: HD	DATE: 11/07/20
CHECKED BY: WA	CONSULTANT PROJECT NO. 60611569
APPROVED BY: WA	CLIENT FILE No.: 811/20

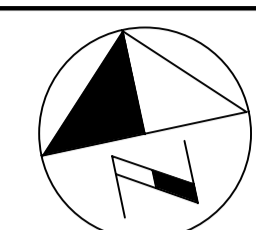
CONTRACT REVISIONS			
NO	DATE	NAME	REVISIONS
3	10/18/21	ADDENDUM #1	
2	10/18/21	RESPONSE TO CITY COMMENTS	
1	09/22/21	ISSUED FOR TENDER	

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT
DESIGN, CONSTRUCTION & ASSET MANAGEMENT

NEW SEATON PARAMEDIC STATION AND TRAINING FACILITY IN PICKERING POWER PLAN

PROPERTY NO.	FACILITIES CODE	FACILITIES PROJECT NO. P061-18-01
CONTRACT NO. T-1160-2021	DRAWING NO. E-301	SHEET NO.

MECHANICAL POWER PLAN - GROUND FLOOR



1890 Fifth Concession Rd

HWY 7

407

BROCK RD

SIDELINE 16 RD

CONCESSION RD 5

PROJECT SITE


WHITEVALE RD

BROCK RD

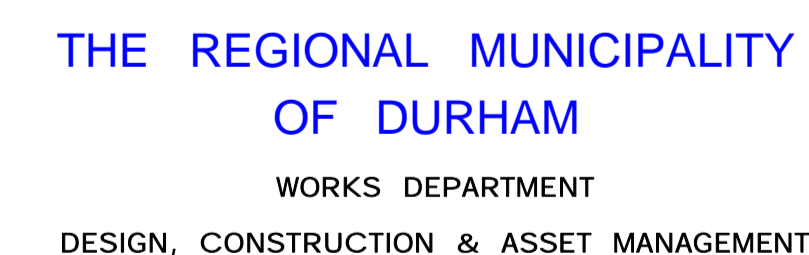
SIDELINE 16 RD

GREENWOOD CONSERVATION AREA

KEY PLAN

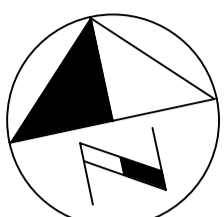
<p>PRIME CONSULTANT</p> <p>AECOM</p> <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p>	
<p>SUB CONSULTANT</p>	

CONTRACT REVISIONS			
	3	10/18/21	ADDENDUM #1
	2	10/18/21	RESPONSE TO CITY COMMENTS
	1	09/22/21	ISSUED FOR TENDER
NO	DATE	NAME	REVISIONS



PROPERTY NO.	FACILITIES CODE	FACILITIES PROJECT NO. P061- 18- 01
CONTRACT NO. T- 1160- 2021	DRAWING NO. E- 302	SHEET NO.

UBIM 360://BP-AMER (CAN) 60611569-Seaton RDPS/60611569-Seaton RDPS-A.rvt



1890 Fifth Concession Rd

HWY 7

407

BROCK RD

SPINE 16 RD


CONCESSION RD 5

WHITEVALE RD

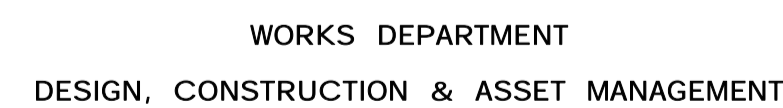
PROJECT SITE

GREENWOOD CONSERVATION AREA

KEY PLAN

<p>PRIME CONSULTANT</p> <p>AECOM</p> <p>AECOM Canada Ltd. 50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4 519 650 5313 tel 519 650 3424 fax www.aecom.com</p>	
<p>SUB CONSULTANT</p>	

CONTRACT REVISIONS				
	3	10/18/21		ADDENDUM #1
	2	10/18/21		RESPONSE TO CITY COMMENTS
	1	09/22/21		ISSUED FOR TENDER
	NO	DATE	NAME	REVISIONS



PROPERTY NO.	FACILITIES CODE	FACILITIES PROJECT NO. P061- 18- 01
CONTRACT NO. T- 1160- 2021	DRAWING NO. E- 401	SHEET NO.



1. REFER TO SPECIFICATION SECTION 27 51 23 INTERCOM AND PUBLIC ADDRESS SYSTEM FOR DETAILS ON SCOPE OF WORK.
2. REFER TO SPECIFICATION SECTION 27 53 13 CLOCK SYSTEM FOR DETAILS ON SCOPE OF WORK.
3. REFER TO SPECIFICATION SECTION 28 10 00 CARD ACCESS AND INTRUSION DETECTION FOR DETAILS ON SCOPE OF WORK.
4. REFER TO SPECIFICATION SECTION 28 23 00 CCTV EQUIPMENT FOR DETAILS ON SCOPE OF WORK.

Panel ID: PP2LB

Location: CLOSET 107A
Supply From: PP2LA
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 100 A
MCB Rating: N/A

Description	Wire	BRK .LC K.	Breake r	Poles	CC T	A	B	C	CC T	Poles	Breake r	BRK .LC K.	Wire	Description
LIGHTING RM 103			15 A	1	1	145 VA	210 VA		2	1	15 A			LIGHTING RM 117
LIGHTING RM 104, 105			15 A	1	3		352 VA	60 VA	4	1	15 A			LIGHTING RM 122
LIGHTING RM 108			15 A	1	5			312 VA	574 VA	6	1	15 A		LIGHTING RM 113
LIGHTING RM 109, 110, 111			15 A	1	7	190 VA	40 VA		8	1	15 A			LIGHTING CLOSET 107A
LIGHTING RM 112			15 A	1	9		396 VA	574 VA	10	1	15 A			LIGHTING RM, 112
LIGHTING RM 113			15 A	1	11			406 VA	12					
LIGHTING RM 107			15 A	1	13	266 VA	20 VA		14	1	15 A			LIGHTING CLOSET 102A
LIGHTING RM 115, 114			15 A	1	15		290 VA	246 VA	16	1	15 A			LIGHTING RM 104
LIGHTING RM 116, 107, 121,...			15 A	1	17			315 VA	328 VA	18	1	15 A		LIGHTING RM 105
LIGHTING RM 117, 120			15 A	1	19	287 VA	12 VA		20	1	15 A	ON		EMERG/EXIT RM - 114, 113
EMERG/EXIT RM - 117, 119,....		ON	15 A	1	21		9 VA	15 VA	22	1	15 A	ON		EMERG/EXIT CORRIDOR 107
EMERG/EXIT RM - 112		ON	15 A	1	23			7 VA	10 VA	24	1	15 A	ON	EMERG/EXIT OPEN OFFICE...
EMERG/EXIT RM - 103, 104		ON	15 A	1	25	9 VA	508 VA		26	1	15 A			PH 2 - LIGHTING RM 203
PH 2 - LIGHTING RM 205, 206			15 A	1	27		145 VA	244 VA	28	1	15 A			PH 2 - LIGHTING RM, 201, 207
PH 2 - LIGHTING RM 204			15 A	1	29			284 VA	162 VA	30	1	15 A		PH 2 - LIGHTING
PH 2 - LIGHTING RM 204			15 A	1	31	164 VA	6 VA		32	1	15 A	ON		PH 2 - EMERG/EXIT RM 202,....
PH 2 - EMERG/EXIT 201		ON	15 A	1	33		4 VA	484 VA	34	1	15 A			PH 2 -LIGHTING RM 202
SPARE			20 A	1	35			0 VA	2 VA	36	1	15 A	ON	PH 2 - EMERG RM 204
SPARE			20 A	1	37	0 VA	0 VA		38	1	20 A			SPARE
SPARE			15 A	1	39		0 VA	0 VA	40	1	15 A			SPARE
SPARE			15 A	1	41			0 VA	42					
Total Load:						1837 VA	2809 VA	2396 VA						
Total Amps:						15 A	24 A	21 A						
Total Connected Load:														7041 VA
Estimated Demand Load:														7041 VA
Total Connected Current														20 A

Panel ID: PP2MA

Location: ELEC 123
Supply From: TX-2MA
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 400 A
MCB Rating: N/A

Description	Wire	BRK .LC K.	Breake r	Poles	CC T	A	B	C	CC T	Poles	Breake r	BRK .LC K.	Wire	Description
DF-1			15 A	3	1	693 VA	693 VA		2	3	15 A			DF-2
	--		--	--	3		693 VA	693 VA	4	--	--		--	--
	--		--	--	5			693 VA	693 VA	6	--	--		--
ERV-1 ENERGY RECOVERY...			15 A	3	7	287 VA	0 VA		8	1	15 A			ERV-1 Lighting
	--		--	--	9		287 VA	2000...	10	2	30 A		2#10 IN 27mmC	CU-1
	--		--	--	11			287 VA	2000...	12	--	--		--
DOAS-1 LIGHTING			15 A	1	13	100 VA	0 VA		14	3	15 A			DOAS-1 ENERGY RECOVERY...
UH-1			15 A	1	15		200 VA	0 VA	16	--	--		--	--
EF-1			15 A	1	17			300 VA	0 VA	18	--	--		--
TSP			15 A	1	19	100 VA	250 VA		20	1	15 A			FC-6
EF-8			15 A	1	21		55 VA	100 VA	22	1	15 A			TSP
FC-5			15 A	1	23			980 VA	600 VA	24	1	15 A		CT - 1 AND 2
CT - 3 AND 4			15 A	1	25	600 VA	300 VA		26	1	15 A			G-1
WS-1 AND WS-2			15 A	1	27		600 VA	0 VA	28	1	20 A			EF-2
					29			220 VA	30	1	15 A			FF-2
					31				32					
					33		0 VA		34	1	15 A			SPARE
					35			80 VA	36	1	15 A			EF-4
EF-5			15 A	1	37	55 VA			38					
					39				40					
IT Servers			20 A	2	41			0 VA	42	3	60 A		3#4 IN 35mmC	EWB-2
	--		--	--	43	0 VA	6000...		44	--	--		--	--
VAV		X	15 A	1	45		200 VA	6000...	46	--	--		--	--
					47			6000...	48	3	60 A		3#4 IN 35mmC	EWB-1
					49		6000...		50	--	--		--	--
					51			6000...	52	--	--		--	--
					53			200 VA	54	1	15 A			HVAC
					55				56					
					57		100 VA		58	1	15 A			DOMESTIC HOT WATER PUMP
					59				60					
					61				62					
VAV		X	15 A	1	63		200 VA		64					
					65				66					
					67				68					
P-9			15 A	1	69		300 VA	1333...	70	3	15 A			DOAS-1 SUPPLY FAN
DOAS-1 EXHAUST FAN			15 A	3	71			667 VA	1333...	72	--	--		--
	--		--	--	73	667 VA	1333...		74	--	--		--	--
	--		--	--	75		667 VA	0 VA	76	1	20 A			SPARE
SPARE			20 A	1	77			0 VA	0 VA	78	1	20 A		SPARE
SPARE			15 A	1	79	0 VA			80					
SPARE			15 A	1	81		0 VA		82					
SPARE			15 A	1	83			0 VA	84					
Total Load:						17078 VA	19428 VA	20053 VA						
Total Amps:						142 A	165 A	170 A						
Total Connected Load:														56580 VA
Estimated Demand Load:														55692 VA
Total Connected Current														157 A

Panel ID: PP2HB

Location: CLOSET 107A
Supply From: TX2-HB
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Lugs: MLO

A.I.C. Rating: 10kAIC
Mains Rating: 225 A
MCB Rating: N/A

Description	Wire	BRK LC K.	Breake r	Poles	CC T	A	B	C	CC T	Poles	Breake r	BRK LC K.	Wire	Description
KITCHEN RECEP			15 A	1	1	200 VA	180 VA		2	1	15 A			KITCHEN RECEP
STOVE			15 A	1	3		1400...	200 VA	4	1	15 A			KITCHEN RECEP
MICROWAVE			15 A	1	5			1100...	6	1	15 A			MICROWAVE
MICROWAVE			15 A	1	7	1100...	1100...		8	1	15 A			MICROWAVE
KITCHEN RECEP			15 A	1	9		200 VA	400 VA	10	1	15 A			KITCHEN RECEP
KITCHEN RECEP			15 A	1	11			400 VA	180 VA	12	1	15 A		WASHROOM RECEP
WASHROOM RECEP			15 A	1	13	180 VA	180 VA		14	1	15 A			WASHROOM RECEP
WASHROOM RECEP			15 A	1	15		200 VA	800 VA	16	1	15 A			CORRIDOR RECEP
STORAGE RECEP			15 A	1	17			800 VA	200 VA	18	1	15 A		CLASSROOM FLOOR RECEP
PRINTER			15 A	1	19	200 VA	200 VA		20	1	15 A			CLASSROOM FLOOR RECEP
PRINTER			15 A	1	21		200 VA	200 VA	22	1	15 A			CLASSROOM FLOOR RECEP
OPEN OFFICE RECEP			15 A	1	23			400 VA	800 VA	24	1	15 A		CLASSROOM TV RECEP
OPEN OFFICE DESK RECEP			15 A	1	25	200 VA	900 VA		26	1	20 A			BREAKOUT RECEP
CLASSROOM RECEP			15 A	1	27		360 VA	800 VA	28	1	15 A			CLASSROOM TV RECEP
OPEN OFFICE RECEP			15 A	1	29			200 VA	200 VA	30	1	15 A		OPEN OFFICE FURN.
CLASSROOM FLOOR RECEP			15 A	1	31	200 VA	200 VA		32	1	15 A			OPEN OFFICE FURN.
CLASSROOM FLOOR RECEP			15 A	1	33		200 VA	200 VA	34	1	15 A			OPEN OFFICE FURN.
CLASSROOM FLOOR RECEP			15 A	1	35			200 VA	200 VA	36	1	15 A		OPEN OFFICE FURN.
PDO UNI. W/R			15 A	1	37	300 VA	1200...		38	1	15 A			DISHWASHER
SPARE			20 A	1	39		0 VA	0 VA	40	1	20 A			SPARE
EMERG OP. CENT. RECEP			15 A	1	41			200 VA	200 VA	42	1	15 A		EMERG OP. CENT. FURN.
EMERG OP. CENT. FURN.			15 A	1	43	200 VA	200 VA		44	1	15 A			EMERG OP. CENT. FURN.
EMERG OP. CENT. TV RECEP			15 A	1	45		400 VA	400 VA	46	1	15 A			EMERG OP. CENT. TV RECEP
EMERG OP. CENT. FURN.			15 A	1	47			300 VA	200 VA	48	1	15 A		EMERG OP. CENT. FURN.
EMERG OP. CENT. FURN.			15 A	1	49	200 VA	200 VA		50	1	15 A			EMERG OP. CENT. FURN.
EMERG OP. CENT. TV RECEP			15 A	1	51		400 VA	600 VA	52	1	15 A			EMERG OP. CENT. TV RECEP
BREAKOUT FURN.			15 A	1	53			100 VA	800 VA	54	1	15 A		BREAKOUT RECEP
OFFICE RECEP			15 A	1	55	800 VA	400 VA		56	1	15 A			OPEN OFFICE RECEP
OPEN OFFICE FURN.			15 A	1	57		200 VA	200 VA	58	1	15 A			OPEN OFFICE FURN.
OPEN OFFICE FURN.			15 A	1	59			200 VA	200 VA	60	1	15 A		OPEN OFFICE FURN.
OPEN OFFICE FURN.			15 A	1	61	200 VA	200 VA		62	1	15 A			OPEN OFFICE FURN.
OPEN OFFICE FURN.			15 A	1	63		200 VA	200 VA	64	1	15 A			OPEN OFFICE FURN.
OPEN OFFICE FURN.			15 A	1	65			200 VA	300 VA	66	1	20 A		PDO
OPEN OFFICE FURN.			15 A	1	67	200 VA	0 VA		68	1	15 A			SPARE
OPEN OFFICE FURN.			15 A	1	69		200 VA	0 VA	70	1	15 A			SPARE
OPEN OFFICE FURN.			15 A	1	71			200 VA	0 VA	72	1	15 A		SPARE
FACP		ON	15 A	1	73	1200...	200 VA		74	1	15 A			RECEPT
					75				76					
					77				78					
					79				80					
					81				82					
					83				84					
Total Load:						10340 VA	7960 VA	8680 VA						
Total Amps:						87 A	66 A	73 A						
Total Connected Load:												26980 VA		
Estimated Demand Load:												26980 VA		
Total Connected Current												75 A		