

FEEDER AND CONDUIT SCHEDULE		
NUMBER	SIZE	RATING (A)
1	1-3C #12 AWG TECK90	20
1A	1-4C #12 AWG + #12GND - 21C	20
2	1-3C #10 AWG TECK90	30
3	1-3C #8 AWG TECK90	50
3A	1-4C #8 AWG + #10GND - 21C	50
4	1-3C #6 AWG TECK90	65
4A	1-3C #6 AWG + #8GND - 27C	65
5	1-4C #2 AWG + #6AWG - 35C	115
6	1-3C #2/0 AWG TECK90	175
7	1-3C #3/0 AWG TECK90	200
8	1-3C 400 MCM TECK90	335
9	1-3C 500 MCM TECK90	500

** CIRCUIT BREAKER'S HANDLE OPERATING MECHANISM TO BE PADLOCKABLE IN THE 'OFF' POSITION.


NOTES:


- 'S' DENOTES SHUNT TRIP.
- ALL TAG NAMES SHOWN ON THE DRAWING HAVE A PREFIX OF "FHA-ELS" UNLESS OTHERWISE NOTED.
- REFER TO DWG E015 FOR CONTROL WIRING.
- ALL CONDUCTORS, EQUIPMENT, AND FIELD CONNECTIONS SHALL BE TAGGED AND IDENTIFIED AS PER CITY REQUIREMENTS.
- UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE TO BE COPPER AND ALL POWER CABLES ARE TO BE TECK90.
- REFER TO DWG E104 FOR NEW STANDBY PDP ELEVATION LAYOUT.
- REFER TO DWGS E202 AND E203 FOR LOCATION DETAILS OF EACH NEW EQUIPMENT.
- NOT USED
- REFER TO DWG E106 FOR LOAD DISTRIBUTION.
- AT EACH DISTRIBUTION POINT, CIRCUIT BREAKERS, FUSES AND SWITCHES SHALL BE MARKED, ADJACENT THERETO, IN A CONSPICUOUS AND LEGIBLE MANNER TO INDICATE CLEARLY WHICH INSTALLATION OR PORTION OF INSTALLATION THEY PROTECT OR CONTROL AND THE MAXIMUM RATING OF OVERCURRENT DEVICE THAT IS PERMITTED.
- EACH NEW ATS AND PDP ASSEMBLY SHALL BE CERTIFIED FOR 50kA SHORT-CIRCUIT CURRENT RATING.
- PROVIDE TERMINAL JUNCTION BOXES TO EXTEND EXISTING FHA-ELS-PDP-0401A/B FEEDER CABLES FROM ADJACENT EXISTING FHA-ELS-MCC-0400A/B VIA 250KCMIL CABLES. SEE DRAWING E101.

EXISTING

NEW

FHA-ELS-PDP-0400E SINGLE LINE DIAGRAM - NEW STANDBY BUS






100-175 GALAXY BOULEVARD
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ARCADIS Professional Services (Canada) Inc.

B	2025-06-10	ISSUED FOR ADDENDUM #1	T.S.	
A	2025-03-18	ISSUED FOR TENDER	T.S.	
NO.	DATE	REVISIONS	INITIAL	SIGNED




TORONTO WATER

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JUN. 10, 2025
PROVINCE OF ONTARIO

R.C. HARRIS WATER TREATMENT PLANT

INSTALLATION OF A STANDBY GENERATOR FOR CRITICAL LOADS

FHA-ELS-PDP-0400E SINGLE LINE DIAGRAM - NEW STANBY BUS

ELECTRICAL

DESIGN:	SC	DRAFTING:	SC	CHECK:	TS	CONTRACT No.	25ECS-MI-03HA
SCALE:	N.T.S.			DRAWING NUMBER:	2F-2017-08-43		
DATE:	2024-09-30			E103			