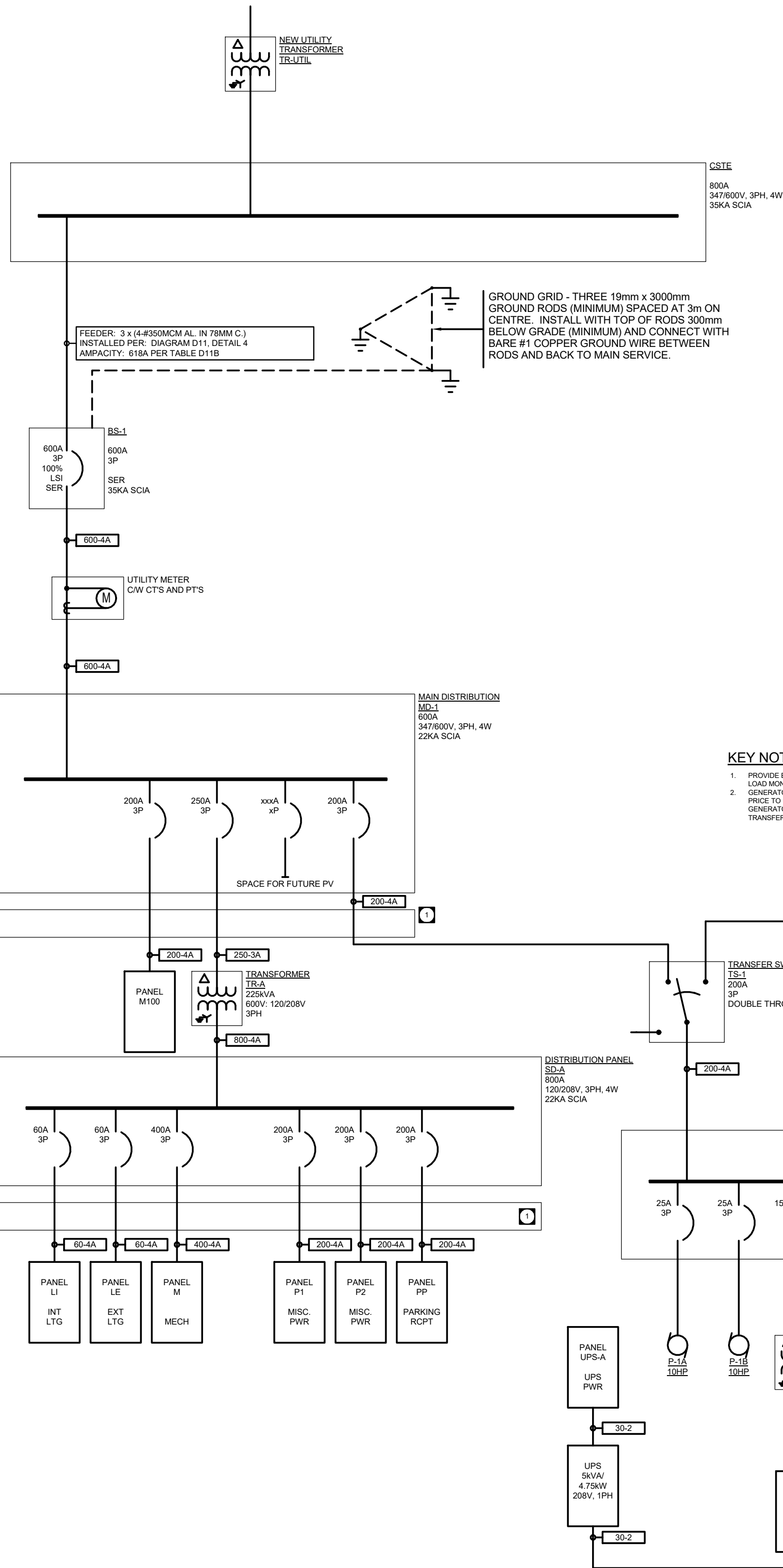




- KEY NOTES**
1. PROVIDE EXTERIOR GUTTER FOR ACCOMMODATION OF FUTURE LOAD MONITORING EQUIPMENT.
 2. GENERATOR BASE BID TO BE AS PER DRAWING. ALTERNATE PRICE TO BE WALL MOUNTED CONNECTION POINT FOR MOBILE GENERATOR TO EMERGENCY DISTRIBUTION, COW MANUAL TRANSFER SWITCH.

CONDUIT AND WIRE SCHEDULE - ALUMINUM							
# (# DENOTES NO. OF CONDUCTORS)	WIRE SIZE		MIN. CONDUIT SIZE (MM)			MAX LENGTH (M) @80%	
	PHASE & NEUTRAL	BOND (AS REQ'D)	2C	3C	4C	208V	600V
60-#A	#4	#6	27	35	35	23	68
70-#A	#3	#6	27	35	35	25	73
90-#A	#2	#6	27	35	35	24	70
100-#A	#1	#6	35	41	41	27	78
125-#A	2/0	#6	41	53	53	31	90
150-#A	3/0	#4	41	53	53	31	90
175-#A	4/0	#4	53	53	63	32	94
200-#A	250 MCM	#2	53	63	78	31	91
250-#A	350 MCM	#2	63	78	78	31	91
300-#A	500 MCM	#1	78	78	91	32	94
400-#A	(2) 250 MCM	(2) #2	(2) 53	(2) 53	(2) 63	31	91
450-#A	(2) 300 MCM	(2) #2	(2) 53	(2) 63	(2) 78	32	92
500-#A	(2) 350 MCM	(2) #2	(2) 63	(2) 78	(2) 78	31	91
600-#A	(2) 500 MCM	(2) #1	(2) 78	(2) 78	(2) 91	32	94
700-#A	(2) 600 MCM	(2) #1	(2) 78	(2) 91	(2) 103	30	88
800-#A	(3) 500 MCM	(3) #1	(2) 78	(2) 78	(3) 91	36	106
1000-#A	(3) 600 MCM	(3) #1	(3) 78	(3) 91	(3) 103	32	93
1200-#A	(4) 600 MCM	(4) #1	(4) 78	(4) 91	(4) 103	35	103
1600-#A	(5) 600 MCM	(5) #1	(5) 78	(5) 91	(5) 103	33	96
2000-#A	(6) 600 MCM	(6) #1	(6) 78	(6) 91	(6) 103	32	93
EQ EQUIPMENT FEEDER - REFER TO ELECTRICAL EQUIPMENT SCHEDULE							
200 - 4A FEEDER DESIGNATION							
CONDUCTOR MATERIAL: (BLANK) - COPPER (A) - ALUMINUM CONDUCTOR QUANTITY: (2) - 10 2W (3) - 10 3W OR 30 3W (4) - 30 4W CONDUCTOR AMPACITY: (SEE FEEDER SCHEDULE)							
GENERAL NOTES:							
A. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.							
B. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 4 OF THE CEC FOR ALUMINUM CONDUCTOR TYPE RW90.							
C. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.							
D. WHERE MULTIPLE CONDUITS AND CONDUCTORS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN 1 PARALLEL PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.							
E. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.							

CONDUIT AND WIRE SCHEDULE - COPPER							
# (# DENOTES NO. OF CONDUCTORS)	WIRE SIZE		MIN. CONDUIT SIZE (MM)			MAX LENGTH (M) @80%	
	PHASE & NEUTRAL	BOND (AS REQ'D)	2C	3C	4C	208V	600V
20-#	#12	#14	21	21	21	19	55
30-#	#10	#12	21	21	21	21	61
50-#	#8	#10	21	21	21	19	55
60-#	#6	#8	21	27	27	24	70
70-#	#4	#8	27	27	35	31	91
80-#	#4	#8	27	27	35	27	80
90-#	#3	#8	27	35	35	29	86
100-#	#3	#8	27	35	35	26	77
115-#	#2	#6	27	35	35	28	81
125-#	#1	#6	35	35	41	31	90
150-#	1/0	#6	41	41	53	32	94
175-#	2/0	#6	41	41	53	32	93
200-#	3/0	#6	53	53	53	33	97
225-#	4/0	#4	53	53	63	34	100
250-#	250 MCM	#4	53	53	63	34	98
300-#	350 MCM	#3	63	63	78	34	99
400-#	600 MCM	#2	78	78	91	34	99
450-#	(2) 4/0	(2) #4	(2) 53	(2) 53	(2) 63	34	100
500-#	(2) 250 MCM	(2) #4	(2) 53	(2) 53	(2) 63	34	98
600-#	(2) 350 MCM	(2) #3	(2) 63	(2) 63	(2) 78	34	99
700-#	(2) 500 MCM	(2) #3	(2) 63	(2) 78	(2) 91	34	100
800-#	(2) 600 MCM	(2) #2	(2) 78	(2) 78	(2) 91	32	94
1000-#	(3) 500 MCM	(3) #3	(3) 63	(3) 78	(3) 91	36	105
1200-#	(3) 600 MCM	(3) #2	(3) 78	(3) 78	(3) 91	32	94
1600-#	(4) 600 MCM	(4) #2	(4) 78	(4) 78	(4) 91	32	94
2000-#	(5) 600 MCM	(5) #2	(5) 78	(5) 78	(5) 91	32	94
2500-#	(6) 600 MCM	(6) #2	(6) 78	(6) 78	(6) 91	31	94
EQ EQUIPMENT FEEDER - REFER TO ELECTRICAL EQUIPMENT SCHEDULE							
200 - 4A FEEDER DESIGNATION							
CONDUCTOR MATERIAL: (BLANK) - COPPER (A) - ALUMINUM CONDUCTOR QUANTITY: (2) - 10 2W (3) - 10 3W OR 30 3W (4) - 30 4W CONDUCTOR AMPACITY: (SEE FEEDER SCHEDULE)							
GENERAL NOTES:							
A. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.							
B. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 2 OF THE CEC FOR COPPER CONDUCTOR TYPE RW90.							
C. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.							
D. WHERE MULTIPLE CONDUITS AND CONDUCTORS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN 1 PARALLEL PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.							
E. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.							

PRELIMINARY
NOT FOR CONSTRUCTION

es

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Author	Checked	Designer	Approver
DRAWN	CHECKED	DESIGNED	APPROVED
DATE	USER APPROVAL		
12-07-24			

Winnipeg

THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT
DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
WINNIPEG FIRE PARAMEDIC SERVICE
STATION 15

RUTH CROSSING AT BISON DRIVE

SHEET TITLE
ELECTRICAL
DIAGRAMS

SCALE	PROJECT No:	SHEET No:
As indicated	2022-97	E5.1

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1