

BURNT MILLS
ELEMENTARY
SCHOOL

MSDE - PUBLIC SCHOOL
CONSTRUCTION PROGRAM
(PSCP) #15.208

MONTGOMERY COUNTY
PUBLIC SCHOOLS

415 PRELUDE DRIVE
SILVER SPRING, MD 20901

CIVIL ENGINEER

ADTEK ENGINEERS, INC.
150 SOUTH EAST STREET, SUITE 201
FREDERICK, MD 21701
301.360.4345

MEP / FP

2RW CONSULTANTS, INC.
2577 PROSPERITY AVE., SUITE 275
FAIRFAX, VA 22031
703.718.4335

STRUCTURAL

LINTON ENGINEERING
46090 LAKE CENTER PLAZA, SUITE 309
POTOMAC FALLS, VA 20165
571.323.0320

FOOD SERVICE

NYIKOS-GARCIA
7146 STARMOUNT WAY
NEW MARKET, MD 21774
240.883.9530

ACOUSTICS

POLYSONICS
405 BELLE AIR LANE
WARRENTON, VA 20186
540.341.4988



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 41028 EXPIRATION DATE: 08/10/2025

PROJECT # 20042

DATE: ISSUE:

04/27/2021	DESIGN DEVELOPMENT	
07/22/2021	65% CD SUBMISSION	
08/19/2021	95% CD IAC SUBMISSION	
09/01/2021	BID SET	
09/24/2021	ADDENDUM 4	4
09/27/2021	PERMIT SUBMISSION	
10/11/2021	CONFORMING BID SET	
02/04/2022	ASI-01	7
09/02/2022	ASI-11	11

DRAWN: JTP CHECKED: BMW

SCALE: AS INDICATED

SHEET TITLE:

NORMAL POWER RISER
DIAGRAM

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SHEET #

E-601

TRANSFORMER SCHEDULE

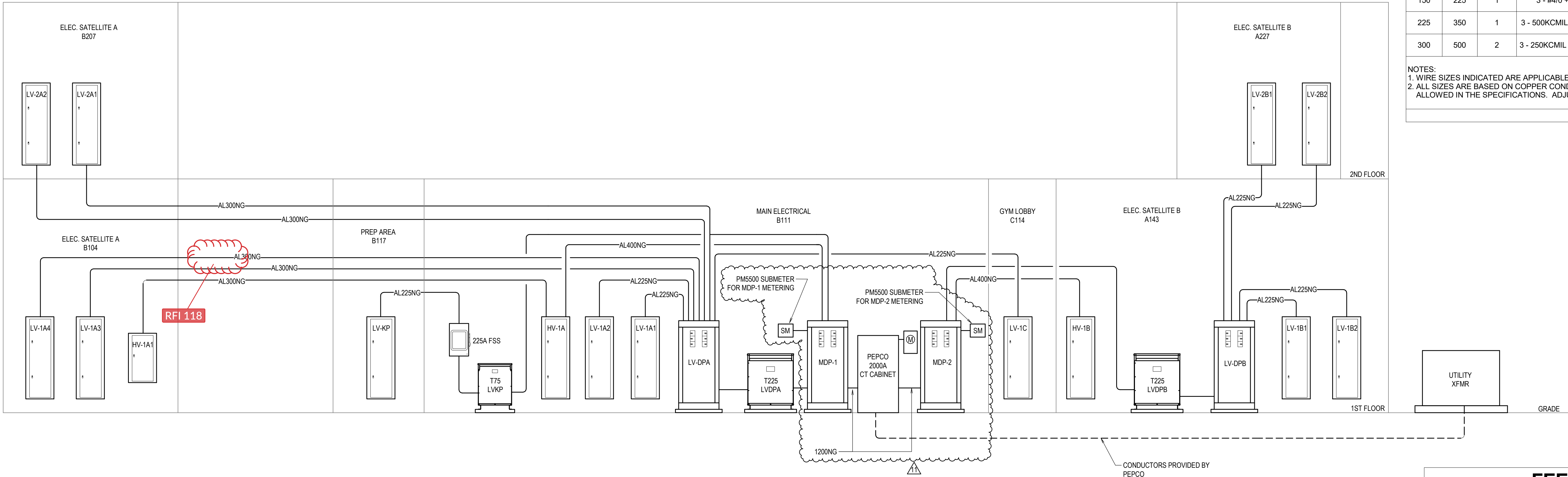
KVA RATING	PRIMARY CONNECTION			SECONDARY CONNECTION		
	OCPD (AMPS)	NUMBER OF SETS	WIRING	OCPD (AMPS)	NUMBER OF SETS	WIRING
15	30	1	3 - #10 + 1 - #10, 1/2"C.	60	1	4 - #6 + 1 - #10, 3/4"C.
30	50	1	3 - #6 + 1 - #10, 3/4"C.	110	1	4 - #1 + 1 - #6, 1 1/4"C.
45	70	1	3 - #4 + 1 - #8, 1"C.	175	1	4 - #2/0 + 1 - #6, 1 1/2"C.
75	125	1	3 - #2 + 1 - #6, 1 1/4"C.	300	1	4 - 300KCMIL + 1 - #4, 2 1/2"C.
112	175	1	3- #2/0 + 1- #6, 1 1/2"C.	400	1	4 - 600KCMIL + 1 - #3G, 3"C.
150	225	1	3 - #4/0 + 1 - #4, 2"C.	600	2	4 - 300KCMIL + 1 - #1, 2 1/2"C.
225	350	1	3 - 500KCMIL, 1 #3G, 2 1/2"C.	800	2	4 - 600KCMIL + 1 - #1/0, 3"C.
300	500	2	3 - 250KCMIL + 1 - #1, 2 1/2"C.	1200	3	4 - 500KCMIL + 1 - #3/0, 3"C.

NOTES:
1. WIRE SIZES INDICATED ARE APPLICABLE UNLESS OTHERWISE NOTED ON THE RISER(S).
2. ALL SIZES ARE BASED ON COPPER CONDUCTORS. CONDUCTORS MAY BE SUBSTITUTED FOR ALUMINUM AS ALLOWED IN THE SPECIFICATIONS. ADJUST WIRE AND CONDUIT SIZES IN ACCORDANCE WITH NEC REQUIREMENTS.

FEEDER SCHEDULE

FEEDER (AMP) TAG	NUMBER OF SETS	NUMBER OF PHASE CONDUCTORS	PHASE CONDUCTOR SIZES	EQUIPMENT GROUND (G) CONDUCTOR	RACEWAY (3C+G)	RACEWAY (3C+NG)	RACEWAY (3C+NGG)
60	1	3	#4	#10	1"	1 1/4"	1 1/4"
AL60	1	3	#3	#6	1 1/4"	1 1/2"	2"
100	1	3	#1	#8	1 1/4"	1 1/2"	2"
AL100	1	3	#6	#4	2"	2"	2"
125	1	3	#1	#6	1 1/4"	1 1/2"	2"
150	1	3	#1/0	#6	1 1/2"	1 1/2"	2"
175	1	3	#2/0	#6	1 1/2"	2"	2"
200	1	3	#3/0	#6	2"	2"	2 1/2"
225	1	3	#4/0	#4	2"	2 1/2"	2 1/2"
AL225	1	3	300 KCMIL	#2	2 1/2"	2 1/2"	3"
250	1	3	250 KCMIL	#4	2"	2 1/2"	2 1/2"
300	1	3	350 KCMIL	#4	2 1/2"	2 1/2"	3"
AL300	1	3	400 KCMIL	#1	2 1/2"	3"	3 1/2"
350	1	3	500 KCMIL	#3	2 1/2"	3"	3 1/2"
400	1	3	600 KCMIL	#3	3"	3 1/2"	3 1/2"
AL400	2	3	300 KCMIL	#1	2 1/2"	2 1/2"	3"
500	2	3	250 KCMIL	#2	2"	2 1/2"	2 1/2"
600	2	3	350 KCMIL	#1	2 1/2"	2 1/2"	3"
800	2	3	600 KCMIL	#1/0	3"	3 1/2"	3 1/2"
1000	3	3	400 KCMIL	#2/0	2 1/2"	3"	3"
1200	4	3	350 KCMIL	#3/0	2 1/2"	4"	4"
1600	4	3	600 KCMIL	#4/0	3"	3 1/2"	4"
2000	5	3	600 KCMIL	250 KCMIL	3"	3 1/2"	4"
2500	6	3	600 KCMIL	350 KCMIL	3"	3 1/2"	4"
3000	8	3	600 KCMIL	400 KCMIL	3"	3 1/2"	4"
4000	10	3	600 KCMIL	500 KCMIL	3"	3 1/2"	4"

GENERAL NOTES:
1. NEUTRAL CONDUCTOR (N) SIZES ARE BASED ON THE CONDUCTOR SIZES OF PHASE CONDUCTORS.
2. FEEDER DESIGNATION WITH SUBSCRIPT "G" INDICATES THREE-PHASE CONDUCTORS AND GROUNDING CONDUCTOR.
3. FEEDER DESIGNATION WITH SUBSCRIPT "NG" INDICATES THREE-PHASE CONDUCTORS, A NEUTRAL CONDUCTOR AND GROUNDING CONDUCTOR.
4. FEEDER DESIGNATION WITH SUBSCRIPT "NNG" INDICATES THREE-PHASE CONDUCTORS, TWO NEUTRAL CONDUCTORS AND GROUNDING CONDUCTOR.
5. FEEDERS DESIGNATED WITH AN "AL" PREFIX ARE ALUMINUM CONDUCTORS.



1 NORMAL POWER RISER DIAGRAM

SCALE: NONE

