

A B C D E F G H J K L M N P Q

GENERAL NOTES

- ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (GADWELDED) TO THE NEAREST GROUND ROD. PROVIDE AND INSTALL ADDITIONAL GROUND RODS AS REQUIRED. NO FLOATING CONNECTIONS ARE PERMITTED. MULTIPLE CONNECTIONS TO A SINGLE GROUND ROD ARE PERMITTED IF THE PROPER MOLDS ARE USED.
- ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG, BARE COPPER PIGTAIL, UNLESS OTHERWISE INDICATED.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE FORMED USING GADWELDED CONNECTIONS. CONTRACTOR SHALL APPLY COLD-GALV OR EQUIVALENT TO ALL ABOVE GROUND GADWELDED CONNECTIONS.
- ALL BRANCH CIRCUITS SHALL CARRY A FULL SIZED GROUND CONDUCTOR (UNLESS NOTED OTHERWISE).
- ALL CONDUIT FITTINGS SHALL BE STEEL ONLY. DIE-CAST FITTINGS WILL NOT BE ACCEPTED.
- AT&T'S EQUIPMENT SHOWN LIGHTLY FOR REFERENCE ONLY. ALL NEW WORK SHOWN DARKLY.
- PROVIDE PNEUMATIC NAMEPLATES FOR ALL ELECTRICAL AND AT&T PROVIDED EQUIPMENT (POWER DISTRIBUTION RACKS, ETC.). COORDINATE EQUIPMENT TITLES WITH AT&T REPRESENTATIVE.
- ALL EXTERIOR MECHANICAL GROUND CONNECTIONS SHALL BE COATED WITH CORROSION RESISTANT MATERIAL (NO-OX).
- ALL MECHANICAL GROUND CONNECTIONS SHALL BE MADE WITH TINNED COPPER TYP (2) HOLE CONNECTORS AS MANUFACTURED BY T&B OR APPROVED EQUAL.
- THE CONTRACTOR SHALL NOT WELD, DRILL, OR CUT GALVANIZED MATERIAL.
- CONTRACTOR SHALL APPLY COLD-GALV OR EQUIVALENT TO ALL ABOVE GROUND GADWELDED CONNECTIONS AND TO ANY NICKS, CUTS, SCRATCHES OF GALVANIZED STEEL.

ELECTRICAL SYMBOLS LIST

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX (UNLESS OTHERWISE INDICATED).

- DRAWING NOTE
- BURIED ELECTRIC CONDUITS
- SEALTIGHT BRANCH CIRCUIT WIRING
- GROUND CONDUCTOR BELOW GRADE
- BURIED GROUND ROD

ABBREVIATIONS

- AFF - ABOVE FINISHED FLOOR
- C, CDT - CONDUIT
- EX - EXISTING
- GRD - GROUND
- TYP - TYPICAL
- MTD - MOUNTED
- UG - UNDERGROUND
- V - VOLTS
- LF - LINEAR FEET
- WP - WEATHERPROOF

DRAWING NOTES

- PROPOSED NEW 120/240V, 1Ø, 3Ø, 200A 42 POLE INTERSECT PANEL P (MODEL RAN-5-12000-3Ø-3Ø-GL-R) WITH INTEGRAL AUTOMATIC TRANSFER SWITCH AND CAMBOX MOUNTED ON NEW HIRSHMAN BACKBOARD REFER TO POWER RISER, SHEET E-5 FOR ADDITIONAL INFORMATION.

(EXISTING) SWITCHBOARD MDE (SURFACE)				
POLE NUMBER	SERVES	BREAKER POLE/SIZE	CONDUCTOR/CONDUIT SIZE	GRD
1	AT&T/MQ/VZM	3Ø 225A	3#4/O - 2" C	#6
2	SPACE	-	-	-
3	SPACE	-	-	-
4	SPACE	-	-	-
5	ELEV. #14#2	3Ø 175A	3#2/O - 2" C	#6
6	SPACE	-	-	-
7	PNL LC2	3Ø 225A	3#2/O - 2" C	#6
8	PNL LDI	3Ø 100A	3#1 - 1 1/2" C	#8
9	PNL LD3	3Ø 225A	3#2/O - 2" C	#6
10	PNL LB2	3Ø 225A	3#2/O - 2" C	#6
11	PNL LC1	3Ø 300A	2 SETS (4#3/O - 2" C)	#3
12	PNL LA2	3Ø 300A	2 SETS (4#3/O - 2" C)	#3
13	PNL LAB	3Ø 400A	2 SETS (4#3/O - 2" C)	#3
14	PNL LBI	3Ø 400A	2 SETS (4#3/O - 2" C)	#3
15	PNL LAL	3Ø 400A	2 SETS (4#3/O - 2" C)	#3
16	PNL LC3	3Ø 600A	2 SETS (4#3/O - 2" C)	#3

EXISTING BUILDING LOAD:
AT&T/MQ/VZM LOAD: 2032.2 KVA = 2,445.3A @ 277/480V, 3Ø, 4W

1882.2 KVA
3500 KVA

(NEW) PANEL P			
DESCRIPTION	B K R K T	C K R R	DESCRIPTION
RECTIFIER SHELF 142	1	2	RECTIFIER SHELF 1410
RECTIFIER SHELF 344	3	4	RECTIFIER SHELF 11412
RECTIFIER SHELF 546	5	6	RECTIFIER SHELF 11412
RECTIFIER SHELF 748	7	8	AT&T SUB-METER
RECTIFIER SHELF 11412	9	10	SPACE
SPACE	11	12	SPACE
SPACE	13	14	SPACE
SPACE	15	16	SPACE
SPACE	17	18	SPACE
SPACE	19	20	SPACE
SPACE	21	22	SPACE
SPACE	23	24	SPACE
SPACE	25	26	SPACE
SPACE	27	28	SPACE
SPACE	29	30	SPACE
SPACE	31	32	SPACE
SPACE	33	34	SPACE
SPACE	35	36	SPACE
SPACE	37	38	SPACE
SPACE	39	40	SPACE
SPACE	41	42	SPACE

LOAD CALCULATION:
AT&T EQUIPMENT LOAD: 17.4 KVA
TOTAL: 17.4 KVA

TOTAL LOAD: 17.4 KVA = 83.6 AMPS @ 120/208V, 1Ø

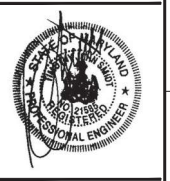
* PANELBOARD FEEDERS ARE SIZED FOR MAIN OVERCURRENT DEVICE PER N.E.C. ARTICLE 210-2
** ALL LOADS ARE BASED UPON N.E.C. ARTICLE 220



1930 ANNAPOLIS PKWY, SUITE 200
ANNAPOLIS, MD 21401
PHONE: (410) 582-8043
FAX: (410) 220-2862

SITE ID: SIMD01045
SITE NAME: DUNNAVANT RELO FOR BOYER PLACE (YESHIVA TEMP)
(FA NUMBER: 12573579)
SITE ADDRESS: 2010 LINDEN LANE
ROCKVILLE, MD 20810
MONTGOMERY COUNTY

REVISION BLOCK		
NO.	DESCRIPTION	DATE
2	COUNTY COMMENTS	01/20/2023
1	PERMIT DWGS	01/19/2023



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, TIMOTHY JOHN SHIPT, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21809, EXPIRATION DATE: MAY 08, 2025.

DRAWN BY: BLN
DESIGNED BY: BLN/TJS
ORIGINAL DATE: 06/16/2023
TEI PROJECT#: 23014L
DESIGN SCALE: AS NOTED



SHEET TITLE
SYMBOLS LIST,
PANEL SCHEDULES
AND NOTES

SHEET NUMBER

E-4

Exhibit 23
OZAH Case No: CU 24-14