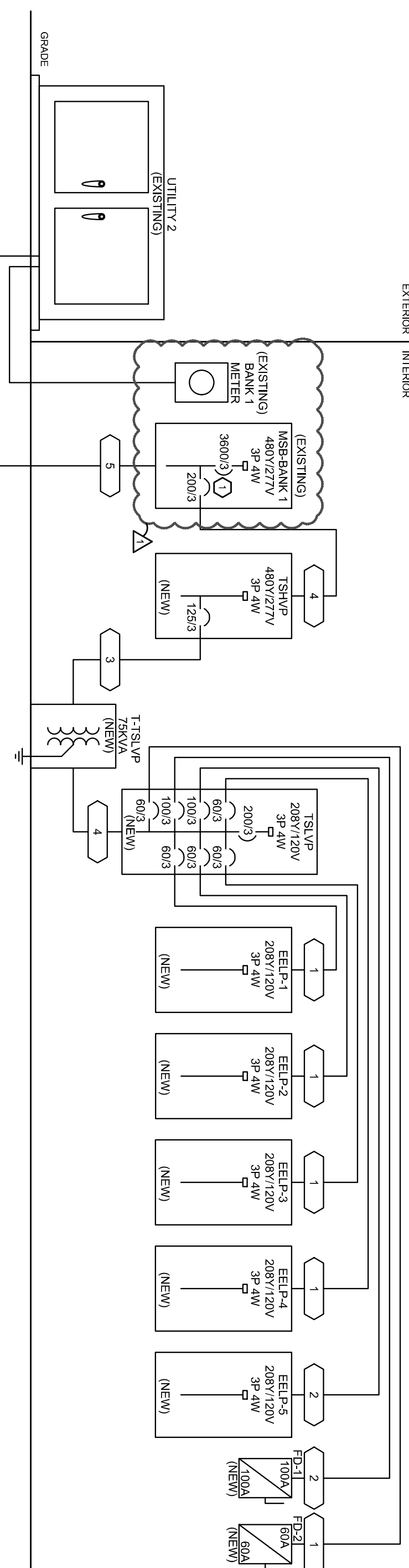


THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. RTM ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

MSB-BANK 1		VOLTS 480V/277V 3P 4W		A/C T.B.D.	
ROOM MOUNTING SURFACE		BUS AMP'S 200		MAIN BRK MLO	
FED FROM MSB-BANK 2		NEUTRAL 100% LUGS STANDARD			
TRIP/PROCES	CIRCUIT DESCRIPTION	A	B	C	FEDER RACEWAY AND CONDUCTORS
1	200/3	0	0	0	
2	200/3	0	0	0	
3	200/3	0	0	0	
4	200/3	0	0	0	
5	200/3	21.4	22.1	21	2--1/2" C, #250kcmil AL, #250kcmil AL, N, #4 AL G
6	100/3	0	0	0	
7	100/3	0	0	0	
8	100/3	0	0	0	
9	600/3	0	0	0	
10	-/3	0	0	0	
11	-/3	0	0	0	
12	2500/3	0	0	0	
13	-/3	352	352	352	(3) 4" C, #600kcmil AL, #600kcmil AL, N, #600kcmil AL G
14	-/3	0	0	0	
15	-/3	0	0	0	
16	-/3	0	0	0	
17	-/3	0	0	0	
18	-/3	0	0	0	
19	-/3	0	0	0	
20	-/3	0	0	0	
21	-/3	0	0	0	
22	-/3	0	0	0	
23	200/3	0	0	0	
24	200/3	0	0	0	
TOTAL CONNECTED KVA BY PHASE		518	519	518	
RECEPTACLES		11.2	11.2	11.2	
NONCONTINUOUS DEMAND		1.100	1.100	1.100	
FUTURE DEMAND (50%+10)		7.21	7.21	7.21	
METERED DEMAND (100%)		4.95	5.43	1.660	
TOTAL LOAD		1.890	1.660	2.000 A	
BALANCED 3-PHASE LOAD					

TSHVP		VOLTS 480V/277V 3P 4W		A/C T.B.D.	
ROOM MOUNTING SURFACE		BUS AMP'S 200		MAIN BRK MLO	
FED FROM MSB-BANK 2		NEUTRAL 100% LUGS STANDARD			
TRIP/PROCES	CIRCUIT DESCRIPTION	A	B	C	FEDER RACEWAY AND CONDUCTORS
1	20/1	0	0	0	
2	20/1	0	0	0	
3	20/1	0	0	0	
4	20/1	0	0	0	
5	20/1	0	0	0	
6	20/1	0	0	0	
7	20/1	0	0	0	
8	20/1	0	0	0	
9	20/1	0	0	0	
10	20/1	0	0	0	
11	20/1	0	0	0	
12	20/1	0	0	0	
13	20/1	0	0	0	
14	20/1	0	0	0	
15	20/1	0	0	0	
16	20/1	0	0	0	
17	20/1	0	0	0	
18	20/1	0	0	0	
19	20/1	0	0	0	
20	20/1	0	0	0	
21	20/1	0	0	0	
22	20/1	0	0	0	
23	20/1	0	0	0	
24	20/1	0	0	0	
25	20/1	0	0	0	
26	20/1	0	0	0	
27	20/1	0	0	0	
28	20/1	0	0	0	
29	20/1	0	0	0	
30	20/1	0	0	0	
31	20/1	0	0	0	
32	20/1	0	0	0	
33	20/1	0	0	0	
34	20/1	0	0	0	
35	20/1	0	0	0	
36	20/1	0	0	0	
37	20/1	0	0	0	
38	20/1	0	0	0	
39	20/1	0	0	0	
40	20/1	0	0	0	
41	20/1	0	0	0	
42	20/1	0	0	0	
TOTAL CONNECTED KVA BY PHASE		518	519	518	
RECEPTACLES		11.2	11.2	11.2	
NONCONTINUOUS DEMAND		1.100	1.100	1.100	
FUTURE DEMAND (50%+10)		7.21	7.21	7.21	
METERED DEMAND (100%)		4.95	5.43	1.660	
TOTAL LOAD		1.890	1.660	2.000 A	
BALANCED 3-PHASE LOAD					

TSLVP		VOLTS 208V/120V 3P 4W		A/C T.B.D.	
ROOM MOUNTING SURFACE		BUS AMP'S 225		MAIN BRK 200	
FED FROM T-SLVP		NEUTRAL 100% LUGS STANDARD			
TRIP/PROCES	CIRCUIT DESCRIPTION	A	B	C	FEDER RACEWAY AND CONDUCTORS
1	60/3	1.8	1.8	1.8	PANEL ELP-1
2	60/3	0	0	0	PANEL ELP-2
3	60/3	0	0	0	PANEL ELP-3
4	60/3	0	0	0	PANEL ELP-4
5	60/3	0	0	0	PANEL ELP-5
6	60/3	0	0	0	PANEL ELP-6
7	60/3	0	0	0	PANEL ELP-7
8	60/3	0	0	0	PANEL ELP-8
9	60/3	0	0	0	PANEL ELP-9
10	60/3	0	0	0	PANEL ELP-10
11	100/3	1.44	1.44	1.44	PANEL ELP-11
12	100/3	0	0	0	PANEL ELP-12
13	100/3	0	0	0	PANEL ELP-13
14	100/3	0	0	0	PANEL ELP-14
15	100/3	0	0	0	PANEL ELP-15
16	100/3	0	0	0	PANEL ELP-16
17	60/3	17.3	17.3	17.3	BREAKER FD-1
18	60/3	0	0	0	BREAKER FD-2
19	60/3	0	0	0	BREAKER FD-3
20	60/3	0	0	0	BREAKER FD-4
21	60/3	0	0	0	BREAKER FD-5
22	60/3	0	0	0	BREAKER FD-6
23	60/3	0	0	0	BREAKER FD-7
24	60/3	0	0	0	BREAKER FD-8
25	60/3	0	0	0	BREAKER FD-9
26	60/3	0	0	0	BREAKER FD-10
27	60/3	0	0	0	BREAKER FD-11
28	60/3	0	0	0	BREAKER FD-12
29	60/3	0	0	0	BREAKER FD-13
30	60/3	0	0	0	BREAKER FD-14
31	60/3	0	0	0	BREAKER FD-15
32	60/3	0	0	0	BREAKER FD-16
33	60/3	0	0	0	BREAKER FD-17
34	60/3	0	0	0	BREAKER FD-18
35	60/3	0	0	0	BREAKER FD-19
36	60/3	0	0	0	BREAKER FD-20
37	60/3	0	0	0	BREAKER FD-21
38	60/3	0	0	0	BREAKER FD-22
39	60/3	0	0	0	BREAKER FD-23
40	60/3	0	0	0	BREAKER FD-24
41	60/3	0	0	0	BREAKER FD-25
42	60/3	0	0	0	BREAKER FD-26
TOTAL CONNECTED KVA BY PHASE		46.1	46.1	46.1	
RECEPTACLES		11.2	11.2	11.2	
NONCONTINUOUS DEMAND		4.61	4.61	4.61	
FUTURE DEMAND (50%+10)		7.21	7.21	7.21	
METERED DEMAND (100%)		63.9	63.9	63.9	
TOTAL LOAD		177 A	177 A	177 A	
BALANCED 3-PHASE LOAD					



ID	CONDUIT AND FEEDER
1	1" C, 3M CU, #6 CU, NHD CU, G
2	1-1/4" C, 3M AL, #1 AL, N, #8 AL, G
3	1-1/2" C, 3M AL, #1 AL, N, #8 AL, G
4	2-1/2" C, 3M, #250kcmil AL, #250kcmil AL, N, #4 AL, G
5	1" C, 3M, #600kcmil AL, #600kcmil AL, N

SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A

SCOPE OF WORK
 ELECTRICAL ENGINEERING SERVICES TO INCLUDE NEW RECEPTACLES FOR POWERING WORK AREAS AND ELECTRICAL DISTRIBUTION EQUIPMENT FOR POWERING WORK AREAS AND ELECTRICAL DISTRIBUTION EQUIPMENT FOR POWERING WORK AREAS. SEE SINGLE LINE AND NOTES FOR MORE INFORMATION.

GENERAL NOTES - OVERALL PROJECT
 A. RTM DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. FEEDBACK FROM THE CLIENT IS REQUIRED TO VERIFY THE DESIGN INTENT AND REQUIRED OUTCOMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.

GENERAL NOTES - SINGLE LINE DIAGRAM
 A. ALL RECEPTACLES SHALL BE INSTALLED TO INTERFERE WITH THE MAINTENANCE AND REPAIR OF THE ELECTRICAL SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.

KEYED SHEET NOTES
 1. CONNECT NEW PIPING, TRAMP TO EXISTING SINGLE BRACKET INSIDE BANK AND INSTALL NEW 200A BREAKERS.

RENOVATIONS AND ADDITION TO BUTLER TECH AND CAREER DEVELOPMENT SCHOOLS
 3603 HAMILTON-MIDDLETOWN ROAD
 HAMILTON, OHIO 45011

© COPYRIGHT 2006, MCGILL SMITH PUNSHON, INC.

McGill Smith Punshon, Inc.
 3700 Park 42 Drive Suite 1908
 Cincinnati, Ohio 45241-2097
 Tel. 513-759-0004 • Fax 513-563-7099

Engineers • Architects • Surveyors
Planners • Landscape Architects

Drawn By: WMM
 Project Mgr.: RRS

C-Ref File
 Issue/Revision
 FOC: BD
 ADDENDUM 01
 Revision Date
 (03/30/2026)

Sheet Title
 ELECTRICAL SINGLE LINE DIAGRAM
 Project No.
 26.EB04K.1021
 Scale
 AS NOTED
 Sheet No.
E3.0
 File No.

