PANEL "154 NDEC2"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	CIRCUIT	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	NUMBER	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	1	1.5		13	1	1.5	SPARE	25	1	1.5	
2	1	1.5		14	1	1.5		26	1	1.5	
3	1	1.5		15	1	1.5	SPARE	27	1	1.5	
4	1	1.5		16	1	1.5		28	1	1.5	
5	1	1.5		17	1	1.5	SPARE	29	1	1.5	
6	1	1.5		18	1	1.5		30	1	1.5	
7	1	1.5	SPARE	19	1	1.5	SPARE	31	1	1.5	
8	1	1.5	SPARE	20	1	1.5		32	1	1.5	
9	1	1.5	SPARE	21	1	1.5	SPARE	33	1	1.5	
10	1	1.5	SPARE	22	1	1.5		34	1	1.5	
11	1	1.5	SPARE	23	1	1.5	SPARE	35	1	1.5	
12	1	1.5	SPARE	24	1	1.5		36	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A 0 B 0 C 0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: A 0 B 0 C 0 — CONNECTED AVERAGE AMPS PER PHASE: 0

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	0 VA	ALL OTHER LOADS WIDER =	0 VA
RECEPTACLES 3VA WIDER =	0 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 0

AVERAGE AMPS PER PHASE = 0

NOTES LEGEND:
1. CONNECT EXISTING PANELS FROM EXISTING PANEL "154-2EC5" TO NEW PANEL "154-NDEC2" AS INDICATED. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

EXISTING PANEL "154-2EC5"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	CIRCUIT	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	NUMBER	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	3	1.5	LAB BENCH SOUTH	13	1	1.5	SCHEDULE CLOCK	25	1	1.5	
2	3	1.5		14	1	1.5		26	1	1.5	
3	3	1.5	LAB BENCH SOUTH	15	1	1.5	MECHANICAL CLOCK	27	1	1.5	
4	3	1.5		16	1	1.5		28	1	1.5	
5	3	1.5	LAB BENCH SOUTH	17	1	1.5	MECHANICAL CLOCK	29	1	1.5	
6	3	1.5		18	1	1.5		30	1	1.5	
7	3	1.5	LAB BENCH SOUTH	19	1	1.5	MECHANICAL CLOCK	31	1	1.5	
8	3	1.5		20	1	1.5		32	1	1.5	
9	3	1.5	LAB BENCH SOUTH	21	1	1.5	MECHANICAL CLOCK	33	1	1.5	
10	3	1.5		22	1	1.5		34	1	1.5	
11	3	1.5	LAB BENCH SOUTH	23	1	1.5	MECHANICAL CLOCK	35	1	1.5	
12	3	1.5		24	1	1.5		36	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A 0 B 0 C 0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: A 0 B 0 C 0 — CONNECTED AVERAGE AMPS PER PHASE: 0

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	0 VA	ALL OTHER LOADS WIDER =	0 VA
RECEPTACLES 3VA WIDER =	0 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 0

AVERAGE AMPS PER PHASE = 0

PANEL "154-LEC1"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	CIRCUIT	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	NUMBER	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	1	1.5	LAB BENCH SOUTH	13	1	1.5	RECEPTACLE CLOCK	25	1	1.5	MECHANICAL CLOCK
2	1	1.5		14	1	1.5		26	1	1.5	
3	1	1.5	LAB BENCH SOUTH	15	1	1.5	RECEPTACLE CLOCK	27	1	1.5	MECHANICAL CLOCK
4	1	1.5		16	1	1.5		28	1	1.5	
5	1	1.5	LAB BENCH SOUTH	17	1	1.5	RECEPTACLE CLOCK	29	1	1.5	MECHANICAL CLOCK
6	1	1.5		18	1	1.5		30	1	1.5	
7	1	1.5	LAB BENCH SOUTH	19	1	1.5	RECEPTACLE CLOCK	31	1	1.5	MECHANICAL CLOCK
8	1	1.5		20	1	1.5		32	1	1.5	
9	1	1.5	LAB BENCH SOUTH	21	1	1.5	RECEPTACLE CLOCK	33	1	1.5	MECHANICAL CLOCK
10	1	1.5		22	1	1.5		34	1	1.5	
11	1	1.5	LAB BENCH SOUTH	23	1	1.5	RECEPTACLE CLOCK	35	1	1.5	MECHANICAL CLOCK
12	1	1.5		24	1	1.5		36	1	1.5	
13	1	1.5	LAB BENCH SOUTH	25	1	1.5	RECEPTACLE CLOCK	37	1	1.5	MECHANICAL CLOCK
14	1	1.5		26	1	1.5		38	1	1.5	
15	1	1.5	LAB BENCH SOUTH	27	1	1.5	RECEPTACLE CLOCK	39	1	1.5	MECHANICAL CLOCK
16	1	1.5		28	1	1.5		40	1	1.5	
17	1	1.5	LAB BENCH SOUTH	29	1	1.5	RECEPTACLE CLOCK	41	1	1.5	MECHANICAL CLOCK
18	1	1.5		30	1	1.5		42	1	1.5	
19	1	1.5	LAB BENCH SOUTH	31	1	1.5	RECEPTACLE CLOCK	43	1	1.5	MECHANICAL CLOCK
20	1	1.5		32	1	1.5		44	1	1.5	
21	1	1.5	LAB BENCH SOUTH	33	1	1.5	RECEPTACLE CLOCK	45	1	1.5	MECHANICAL CLOCK
22	1	1.5		34	1	1.5		46	1	1.5	
23	1	1.5	LAB BENCH SOUTH	35	1	1.5	RECEPTACLE CLOCK	47	1	1.5	MECHANICAL CLOCK
24	1	1.5		36	1	1.5		48	1	1.5	
25	1	1.5	SPARE	37	1	1.5	SPARE	49	1	1.5	SPARE
26	1	1.5		38	1	1.5		50	1	1.5	
27	1	1.5	SPARE	39	1	1.5	SPARE	51	1	1.5	SPARE
28	1	1.5		40	1	1.5		52	1	1.5	
29	1	1.5	SPARE	41	1	1.5	SPARE	53	1	1.5	SPARE
30	1	1.5		42	1	1.5		54	1	1.5	
31	1	1.5	SPARE	43	1	1.5	SPARE	55	1	1.5	SPARE
32	1	1.5		44	1	1.5		56	1	1.5	
33	1	1.5	SPARE	45	1	1.5	SPARE	57	1	1.5	SPARE
34	1	1.5		46	1	1.5		58	1	1.5	
35	1	1.5	SPARE	47	1	1.5	SPARE	59	1	1.5	SPARE
36	1	1.5		48	1	1.5		60	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A 0 B 0 C 0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: A0, B0, C0 — CONNECTED AVERAGE AMPS PER PHASE: 0

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	0 VA	ALL OTHER LOADS WIDER =	48 VA
RECEPTACLES 3VA WIDER =	0 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 48

AVERAGE AMPS PER PHASE = 0A

PANEL "154-LAB1"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	CIRCUIT	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	NUMBER	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	1	1.5	RECEPTACLE CLOCK	13	1	1.5	LAB LIGHTING	25	1	1.5	LAB LIGHTING
2	1	1.5		14	1	1.5		26	1	1.5	
3	1	1.5	RECEPTACLE CLOCK	15	1	1.5	LAB LIGHTING	27	1	1.5	LAB LIGHTING
4	1	1.5		16	1	1.5		28	1	1.5	
5	1	1.5	RECEPTACLE CLOCK	17	1	1.5	LAB LIGHTING	29	1	1.5	LAB LIGHTING
6	1	1.5		18	1	1.5		30	1	1.5	
7	1	1.5	RECEPTACLE CLOCK	19	1	1.5	LAB LIGHTING	31	1	1.5	LAB LIGHTING
8	1	1.5		20	1	1.5		32	1	1.5	
9	1	1.5	RECEPTACLE CLOCK	21	1	1.5	LAB LIGHTING	33	1	1.5	LAB LIGHTING
10	1	1.5		22	1	1.5		34	1	1.5	
11	1	1.5	RECEPTACLE CLOCK	23	1	1.5	LAB LIGHTING	35	1	1.5	LAB LIGHTING
12	1	1.5		24	1	1.5		36	1	1.5	
13	1	1.5	RECEPTACLE CLOCK	25	1	1.5	LAB LIGHTING	37	1	1.5	LAB LIGHTING
14	1	1.5		26	1	1.5		38	1	1.5	
15	1	1.5	RECEPTACLE CLOCK	27	1	1.5	LAB LIGHTING	39	1	1.5	LAB LIGHTING
16	1	1.5		28	1	1.5		40	1	1.5	
17	1	1.5	RECEPTACLE CLOCK	29	1	1.5	LAB LIGHTING	41	1	1.5	LAB LIGHTING
18	1	1.5		30	1	1.5		42	1	1.5	
19	1	1.5	RECEPTACLE CLOCK	31	1	1.5	LAB LIGHTING	43	1	1.5	LAB LIGHTING
20	1	1.5		32	1	1.5		44	1	1.5	
21	1	1.5	RECEPTACLE CLOCK	33	1	1.5	LAB LIGHTING	45	1	1.5	LAB LIGHTING
22	1	1.5		34	1	1.5		46	1	1.5	
23	1	1.5	RECEPTACLE CLOCK	35	1	1.5	LAB LIGHTING	47	1	1.5	LAB LIGHTING
24	1	1.5		36	1	1.5		48	1	1.5	
25	1	1.5	SPARE	37	1	1.5	SPARE	49	1	1.5	SPARE
26	1	1.5		38	1	1.5		50	1	1.5	
27	1	1.5	SPARE	39	1	1.5	SPARE	51	1	1.5	SPARE
28	1	1.5		40	1	1.5		52	1	1.5	
29	1	1.5	SPARE	41	1	1.5	SPARE	53	1	1.5	SPARE
30	1	1.5		42	1	1.5		54	1	1.5	
31	1	1.5	SPARE	43	1	1.5	SPARE	55	1	1.5	SPARE
32	1	1.5		44	1	1.5		56	1	1.5	
33	1	1.5	SPARE	45	1	1.5	SPARE	57	1	1.5	SPARE
34	1	1.5		46	1	1.5		58	1	1.5	
35	1	1.5	SPARE	47	1	1.5	SPARE	59	1	1.5	SPARE
36	1	1.5		48	1	1.5		60	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A0 B0 C0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: 0A, 0B, 0C — CONNECTED AVERAGE AMPS PER PHASE: 0A

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	24 VA	ALL OTHER LOADS WIDER =	0 VA
RECEPTACLES 180VA WIDER =	18 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 42

AVERAGE AMPS PER PHASE = 1A

DISTRIBUTION PANELBOARD "154-LAB2"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	1	1.5		13	1	1.5		25	1	1.5	
2	1	1.5		14	1	1.5		26	1	1.5	
3	1	1.5		15	1	1.5		27	1	1.5	
4	1	1.5		16	1	1.5		28	1	1.5	
5	1	1.5		17	1	1.5		29	1	1.5	
6	1	1.5		18	1	1.5		30	1	1.5	
7	1	1.5		19	1	1.5		31	1	1.5	
8	1	1.5		20	1	1.5		32	1	1.5	
9	1	1.5		21	1	1.5		33	1	1.5	
10	1	1.5		22	1	1.5		34	1	1.5	
11	1	1.5		23	1	1.5		35	1	1.5	
12	1	1.5		24	1	1.5		36	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A0 B0 C0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: A0, B0, C0 — CONNECTED AVERAGE AMPS PER PHASE: 0A

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	0 VA	ALL OTHER LOADS WIDER =	0 VA
RECEPTACLES 180VA WIDER =	0 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 0

AVERAGE AMPS PER PHASE = 0A

PANEL "154-LEC2"

VOLTS/PHASE/WIRES	PHASE, WIRE & TYPE	LOAD WIRE & TYPE	LOCATION	CIRCUIT	NOTES
COLUMN A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	CKT. A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z	SIZE (METER AND LOAD)	FOR ELECTRICAL PERSONNEL ONLY	NUMBER	

CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION	CKT NUMBER	CKT BKR	LOAD (KVA)	DESCRIPTION
1	1	1.5		13	1	1.5	SPARE	25	1	1.5	SPARE
2	1	1.5		14	1	1.5		26	1	1.5	
3	1	1.5	SPARE	15	1	1.5	SPARE	27	1	1.5	SPARE
4	1	1.5		16	1	1.5		28	1	1.5	
5	1	1.5	SPARE	17	1	1.5	SPARE	29	1	1.5	SPARE
6	1	1.5		18	1	1.5		30	1	1.5	
7	1	1.5	SPARE	19	1	1.5	SPARE	31	1	1.5	SPARE
8	1	1.5		20	1	1.5		32	1	1.5	
9	1	1.5	SPARE	21	1	1.5	SPARE	33	1	1.5	SPARE
10	1	1.5		22	1	1.5		34	1	1.5	
11	1	1.5	SPARE	23	1	1.5	SPARE	35	1	1.5	SPARE
12	1	1.5		24	1	1.5		36	1	1.5	
13	1	1.5	SPARE	25	1	1.5	SPARE	37	1	1.5	SPARE
14	1	1.5		26	1	1.5		38	1	1.5	
15	1	1.5	SPARE	27	1	1.5	SPARE	39	1	1.5	SPARE
16	1	1.5		28	1	1.5		40	1	1.5	
17	1	1.5	SPARE	29	1	1.5	SPARE	41	1	1.5	SPARE
18	1	1.5		30	1	1.5		42	1	1.5	
19	1	1.5	SPARE	31	1	1.5	SPARE	43	1	1.5	SPARE
20	1	1.5		32	1	1.5		44	1	1.5	
21	1	1.5	SPARE	33	1	1.5	SPARE	45	1	1.5	SPARE
22	1	1.5		34	1	1.5		46	1	1.5	
23	1	1.5	SPARE	35	1	1.5	SPARE	47	1	1.5	SPARE
24	1	1.5		36	1	1.5		48	1	1.5	
25	1	1.5	SPARE	37	1	1.5	SPARE	49	1	1.5	SPARE
26	1	1.5		38	1	1.5		50	1	1.5	
27	1	1.5	SPARE	39	1	1.5	SPARE	51	1	1.5	SPARE
28	1	1.5		40	1	1.5		52	1	1.5	
29	1	1.5	SPARE	41	1	1.5	SPARE	53	1	1.5	SPARE
30	1	1.5		42	1	1.5		54	1	1.5	
31	1	1.5	SPARE	43	1	1.5	SPARE	55	1	1.5	SPARE
32	1	1.5		44	1	1.5		56	1	1.5	
33	1	1.5	SPARE	45	1	1.5	SPARE	57	1	1.5	SPARE
34	1	1.5		46	1	1.5		58	1	1.5	
35	1	1.5	SPARE	47	1	1.5	SPARE	59	1	1.5	SPARE
36	1	1.5		48	1	1.5		60	1	1.5	
TOTALS											

CONNECTED LOAD PER PHASE: A0 B0 C0 — CONNECTED TOTAL KVA: 0

CONNECTED AMPS PER PHASE: 0A, 0B, 0C — CONNECTED AVERAGE AMPS PER PHASE: 0A

NEC DEMAND/PER LOAD CALCULATIONS

LIGHTING 3VA WIDER =	0 VA	ALL OTHER LOADS WIDER =	48 VA
RECEPTACLES 180VA WIDER =	0 VA	25% OF LARGEST MOTOR =	0 VA
TRANSFORMERS 25% X SIZE =	0 VA		

DEMANDED TOTAL VA = 48

AVERAGE AMPS PER PHASE = 0A

REVISIONS

Number	Date
REV-04/01/21	

VA MONTANA HEALTHCARE SYSTEM
FT HARRISON, MT

Drawing Title: ELECTRICAL SCHEDULES

Drawing Title: LABORATORY WALL SHEDS-ROD PROPAGATION

Approved Division Chief: NA

Approved Service Director:

Map Number: NA — Revised: — Date: N/A

Project Number: 4610-20-CN

Drawing No.: 153

Sheet: Dwg. 7 OF 8

CAD: PCHP-0000000-0000000

OPERATION NOT PART OF THIS CONTRACT