

1 ELECTRICAL POWER & SYSTEMS PLAN – BASEMENT
SCALE: 1/4"=1'

DIRECTORY	KVA LOAD		CKT #	BRK AMPS	PHASE	BRK AMPS	CKT #	KVA LOAD		DIRECTORY	
	A	B						A	B		
BOILER & PUMP P-5	1.3		1	20	A	20	2	*		FURNACE CONTROL	
ROOM 005 RECEP		*	3	20	B	20	4		*	BASEMENT 001 RECEP	
EMR 002 RECEP	*		5	20	A	20	6	*		ROOM 003 RECEP	
NEW ADULT NON-FICT. 109 RECEP		*	7	20	B	20	8		*	HOLD/PUBLIC COMP. 109 RECEP	
CHILDRENS 110 RECEP	*		9	20	A	20	10	*		YOUTH SERVICES 111 RECEP	
ORANGE ROOM		*	11	20	B	20	12		*	BASEMENT COMPUTER OUTLET	
HOLD/PUBLIC COMP. 102 RECEP	*		13	20	A	20	14	*		FAC PANEL	
POINT OF REFUGE		*	15	20	B	20	16		*	YOUTH SERVICES 111 RECEP	
LIGHT TIMER	*		17	20	A	20	18	*		ROOM 105 & 101 RECEP	
OUTSIDE RECEP FRONT DOOR EXIT		*	19	20	B	20	20		*	ROOM 106 & 107 RECEP & GFI	
CIRCULATION 108 RECEP	*		21	20	A	20	22	*		HOLD/PUBLIC COMP. 102 DESK RECEP	
UNDER COUNTER HOLD/PUBLIC COMP. 102 RECEP		*	23	20	B	20	24		*	HOLD/PUBLIC COMP. 102 RECEP BEHIND DESK	
CIRCULATION 108 RECEP	*		25	20	A	20	26	*		RECEP UNDER COUNTER CIRCULATION 108	
NEW ADULT NON FICT. RECEP		*	27	20	B	20	28		*	RECEP UNDER COUNTER CHILDRENS 110	
SPACE	*		29	20	A	20	30	*		BASEMENT 001 LTS	
CELLAR EMERG. LTS ROOM 002/005		*	31	20	B	20	32		*	HOLD/PUBLIC COMPUTING LTS	
EXIT SIGNS	*		33	20	A	20	34	*		EMERG LTS ROOM 106	
PANEL RECEP		*	35	20	B	20	36		*	EXTERIOR SOFFIT LTS	
HAND DRYER	*		37	20	A	20	38	9.7		NEW SUB PANEL PC 1	
		*	39		B		40	9.1			
AIR COND. ROOM 102	*		41	20	A	30	42	*		ELECTRIC WATER HEATER	
SUBTOTAL	###	###						###	###	SUBTOTAL	
VOLTAGE: 120/240V PHASE: 1 POLES: 3			TOTAL KVA A-PHASE			###			PANEL		EXISTING PANEL PA
MAIN BREAKER: 200A			BUS AMPS: 200A			TOTAL KVA B-PHASE			###		
MOUNTING: SURFACE			TOTAL KVA			###			LOCATION		BASEMENT 001
SHORT CIRCUIT RATING: 10KAIC			TOTAL KVA			###					

2 EXISTING PANEL SCHEDULE
SCALE: NOT TO SCALE

DIRECTORY	KVA LOAD		CKT #	BRK AMPS	PHASE	BRK AMPS	CKT #	KVA LOAD		DIRECTORY	
	A	B						A	B		
CUH-1, PF-1	0.7		1	20	A	20	2	0.1		ELEV. MACH. ROOM LTS	
ELEV. PIT SUMP PUMP		1.2	3	20	B	20	4		0.1	CONDENSATE LIFT PUMP	
ELEV. PIT RECEP		0.2	5	20	A	20	6		0.1	ELEV. MACHINE ROOM EF-3	
ELEV. MACHINE ROOM RECEP		0.2	7	20	B	20	8		0.8	PROCESSING AND OFFICE DATA RECEP	
ELEV. CAR LTS		0.2	9	20	A	20	10		0.8	PUBLIC COMPUTING RECEP	
ELEV. MOTOR DISCONNECT		2.5	11		B	20	12		0.8	PUBLIC COMPUTING RECEP	
		2.5	13	30	A	20	14		1.6	CIRCULATION DATA RECEP	
ELECTRIC HOT WATER HEATER (EWH-1)		2.3	15		B	20	16		0.8	SECOND FLOOR DATA RECEP	
		2.3	17	30	A	20	18		*	AIR CONDITIONER - FICTION ROOM 3	
ELEV. PIT LTS		0.1	19	20	B	20	20		*		
SPARE	*		21	20	B	20	22	*		SPARE	
SPARE	*		23	20	C	20	24	*		SPARE	
SPARE	*		25	20	A	20	26	*		SPARE	
SPARE	*		27	20	B	20	28	*		SPARE	
SPARE	*		29	20	C	20	30	*		SPARE	
SUBTOTAL	6.1	6.3						2.6	2.5	SUBTOTAL	
VOLTAGE: 120/240V PHASE: 1 POLES: 3			TOTAL KVA A-PHASE			8.7			PANEL		PC
MAIN LUGS ONLY			BUS AMPS: 100A			TOTAL KVA B-PHASE			8.8		
MOUNTING: SURFACE			TOTAL KVA			17.5			LOCATION		BASEMENT 001
SHORT CIRCUIT RATING: 10KAIC			TOTAL KVA			17.5					

3 NEW PANEL SCHEDULE (BASE BID ONLY)
SCALE: NOT TO SCALE

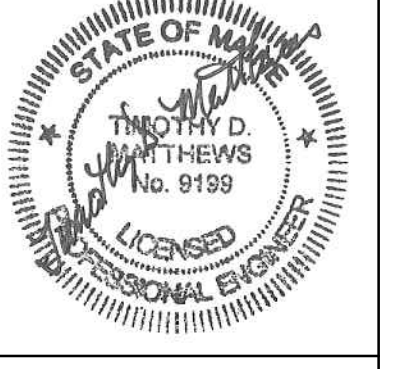
NOTES:
1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
KEYED NOTES:
1. BASE BID ONLY.
2. COORDINATE EXACT LAYOUT OF ELEVATOR MACHINE ROOM WITH MANUFACTURER OF SYSTEM BEING PROVIDED.
3. BASE BID ONLY - EXISTING FICTION ROOM AIR CONDITIONER BREAKER MOVED TO ACCOMMODATE NEW SUBPANEL PC 100A BREAKER

BASE BID:
1. EXISTING SERVICE TO REMAIN.
2. INSTALL NEW 100A SUB PANEL PC TO FEED ADDITIONAL LOADS FOR NEW LULA LIFT, HOT WATER HEATER, AND RECEPTACLES. FEED FROM NEW BREAKER IN EXISTING PANEL PA.

ADD ALERNATE:
1. REPLACE EXISTING 200A, 120/240V, SINGLE SERVICE WITH NEW 400A SERVICE. INSTALL 400A METER SOCKET AND FEED TWO INDIVIDUAL 200A PANELS (ONE WILL BE PA(EXISTING) AND OTHER WILL BE PC(NEW). TO FEED BASE BID EQUIPMENT PLUS ADDITIONAL BUILDING AIR CONDITIONING EQUIPMENT.

DEMOLITION NOTES:
1. PROVIDE SELECTIVE DEMOLITION OF LIGHT FIXTURES, EQUIPMENT IN WALLS BEING REMOVED, AND FOR THE LIFT SYSTEM TO BE REMOVED. PROVIDE ANY ADDITIONAL WIRING FOR CONTINUATION OF CIRCUITS WHERE DEVICES ARE BEING REMOVED.
2. REMOVE AND REINSTALL ANY FIRE ALARM DEVICES ON WALLS BEING REMOVED/RELOCATED. CONSULT ARCHITECTURAL DEMOLITION PLANS FOR WALLS BEING DEMOLISHED.

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:
DATE: 2-6-15



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Addition + Renovation for
The Burbank Branch Library
ISSUED FOR PERMITTING

ELECTRICAL POWER & SYSTEMS FLOOR PLAN - BASEMENT
SHEET # E1.0
PLAN NUMBER

