EXHIBIT D-2B
DRAWINGS E0009 – E2113

RFP No. 901516 – East County Hall of Justice BDA & DAS

PANEL SBH2

PROJECT: ECHOJ -COURTS
LOCATION: RM 2B259

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
SPARE				20	1	1	2	20	1	3.2			2ND FL COURTOOM 2A207 {1}
SPARE				20	1	3	4	20	1	3.2			2ND FL COURTOOM 2A258 {1}
SPARE				20	1	5	6	20	1	1.6			2ND FL HOLDING AREA
SPARE				20	1	7	8	20	1	1.2			1ST & 2ND IDF/MDF/ELEC
SPARE				20	1	9	10	20	1				SPARE
SPARE				20	1	11	12	20	1				SPARE
1ST FL HOLDING CIRC	4.4			20	1	13	14	20	1				SPARE
1ST FL HOLDING CELLS	3.5			20	1	15	16	20	1				SPARE
1ST FL LOADING SALLYPORT	2.2			20	1	17	18	20	1				SPARE
SPARE				20	1	19	20	20	1				SPARE
SPARE				20	1	21	22	20	1				SPARE
SPARE				20	1	23	24	20	1				SPARE
SPARE				20	1	25	26	20	1				SPARE
SPARE				20	1	27	28	20	1				SPARE
SPARE				20	1	29	30	20	1				SPARE
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
TOTALS ---------->	10.1									9.2			<-------- TOTALS

VOLTAGE: 277/480V, 3Ø, 4W
S.C.A.: 42K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 100A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
19.3	125% OF LOAD	24.1	<----- Lighting
	NEC 220-14(I)		<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
	1.0 + 25% Largest		<----- Mech
	1.0		<----- Other

19.3 KVA — 24.1 KVA 29.0 Amps; +25% Spare 36.3 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	9	7	4
%	46%	35%	20%
AMP	32	24	14

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= RM ALSO SERVED FROM EH5

DATE PRINTED: 02/04/16

PANEL SBH5

PROJECT: ECHOJ -COURTS
LOCATION: RM 5B533

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
3RD COURTRM 3B311 {1}	2.6			20	1	1	2	20	1	3.2			3RD COURTRM 3A307 {1}
SPARE				20	1	3	4	20	1	2.6			3RD FL HOLDING AREAS
SPARE				20	1	5	6	20	1	3.2			3RD FL HOLDING AREAS
SPARE				20	1	7	8	20	1	1.0			3RD,4TH,5TH ELEC/MDF/
SPARE				20	1	9	10	20	1	3.2			4TH FL COURTRM 4A407 {1}
SPARE				20	1	11	12	20	1	2.8			4TH FL HOLDING AREAS
ROOF WEST ELEC RMS	0.2			20	1	13	14	20	1	3.2			4TH FL COURTRM 4A458 {1}
ROOF EAST ELEC RMS	0.2			20	1	15	16	20	1	3.2			4TH FL COURTRM 4A411 {1}
SPARE				20	1	17	18	20	1	3.2			4TH FL COURTRM 4A462 {1}
SPARE				20	1	19	20	20	1	2.8			5TH FL HOLDING AREAS
SPARE				20	1	21	22	20	1	3.2			5TH COURTRM 5A507 {1}
SPARE				20	1	23	24	20	1	3.2			5TH COURTRM 5A558 {1}
SPARE				20	1	25	26	20	1	3.2			5TH COURTRM 5A512 {1}
SPARE				20	1	27	28	20	1	3.2			5TH COURTRM 5A562 {1}
SPARE				20	1	29	30	20	1				SPARE
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
						XXX	XXX						
TOTALS ---------->	3.0									41.2			<-------- TOTALS

VOLTAGE: 277/480V, 3Ø, 4W
S.C.A.: 42K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 100A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
44.2	125% OF LOAD	55.3	<----- Lighting
	NEC 220-14(I)		<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
	1.0 + 25% Largest		<----- Mech
	1.0		<----- Other

44.2 KVA — 55.3 KVA 66.5 Amps; +25% Spare 83.1 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	16	16	12
%	37%	35%	28%
AMP	58	56	45

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= RM ALSO SVD FROM EH5

DATE PRINTED: 02/04/16

PANEL - SBL1 SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
1ST ELEV EQ 1A153 FC-1-1			0.1	20	2	1	2	20	1		0.4		MAIN ELEC 1B166
---			0.1		---	3	4	20	1				SPARE
1ST ELEV EQ 1A153 FC-1-1/PU			0.2	20	1	5	6	20	1		0.2		EMG ELEC RM 1B162
1ST ELEV EQ 1A153, 1A108		0.2		20	1	7	8	20	1			0.2	ELEV EQ RM 1B167 CP/FC-1-3
SPARE				20	1	9	10	20	2			0.1	ELEV EQ RM 1B167 - FC-1-3
SPARE				20	1	11	12		---			0.1	---
SPARE				20	1	13	14	20	1		0.2		ELEV EQ RM 1B167
1ST ELEV EQ 1A130		0.2		20	1	15	16	20	1				SPARE
1ST ELEVSMK GUARDS			1.0	20	1	17	18	20	1				SPARE
1ST MECH RM 1A123		0.2		20	1	19	20	20	2			0.1	MAIN EMG AB162 FC 1-5
1ST EXIT DOOR ACT & HW		0.2		20	1	21	22		---			0.1	---
1ST FL FIRE PUMP RM 1A154		0.2		20	1	23	24	20	1			1.0	FSD @ 1A
SPARE				20	1	25	26	20	1			0.2	ELEV EQ RM 1B106 CP/FC-1-4
SPARE				20	1	27	28	20	2			0.1	ELEV EQ RM 1B106 FC-1-4
SPARE				20	1	29	30		---			0.1	---
SPARE				20	1	31	32	20	1			0.1	ELEV EQ RM 1B106
1ST ELEV EQ 1A108 FC-1-2			0.1	20	2	33	34	20	1				SPARE
---			0.1		---	35	36	20	1			1.0	FSD @ 1B
1ST W.ELEV EQ 1A108 FC-1-2/CP			0.2	20	1	37	38	20	1			0.3	BAS CLOSET B109A
SPARE				20	1	39	40	20	1			0.3	MAIN EMG AB162 FC-CP 1-5
BAS MAIN ELEC 1B166			0.3	20	1	41	42	20	1				SPARE
TOTALS ---------->		0.9	2.1								0.9	3.4	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 42K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400A BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
1.8	100% OF LOAD	1.8	<----- Lighting
10.6	NEC 220-14(I)	10.3	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
4.4	1.0 + 25% Largest	4.7	<----- Mech
26.9	0.90	24.2	<----- Other

43.7 KVA — 41.0 KVA 113.8 Amps; +20% Spare 136.6 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	2	1	4
%	30%	13%	57%
AMP	18	8	34

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

PANEL - SBL1 SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
SALLYPORT COILING DOOR			1.0	20	1	43	44	20	1			1.0	SECURITY EQUIPMENT IN MDF
SALLYPORT COILING DOOR			1.0	20	1	45	46	20	1			1.0	SECURITY EQUIPMENT IN MDF
SALLYPORT COILING DOOR			1.0	20	1	47	48	20	1			1.0	SECURITY EQUIPMENT IN MDF
SALLYPORT COILING DOOR			1.0	20	1	49	50	20	1			1.0	SECURITY EQUIPMENT IN MDF
SPARE				20	1	51	52	20	1			1.0	SECURITY EQUIPMENT IN MDF
SPARE				20	1	53	54	20	1				SPARE
SPARE				20	1	55	56	20	1				SPARE
SPARE				20	1	57	58	20	1				SPARE
SPARE				20	1	59	60	20	1				SPARE
SECURE OFFICE REC		0.4		20	1	61	62	20	1				SPARE
SECURE OFFICE REC		0.5		20	1	63	64	20	1				SPARE
SECURE OFFICE REC		0.4		20	1	65	66	20	1				SPARE
SPARE				20	1	67	68	20	1		0.9		DAS HUB
SPARE				20	1	69	70	20	1		0.9		DAS HUB
SPARE				20	1	71	72	20	1		0.9		DAS HUB
SPARE				20	1	73	74	20	1		0.9		ELECTRIFIED DOOR HW
SPARE				20	1	75	76	20	1		0.4		ELECTRIFIED DOOR HW
SPARE				20	1	77	78	20	1		0.2		ELECTRIFIED DOOR HW
FIRE ALARM PANEL {1}			0.5	20	1	79	80	20	1			0.5	FA BOOSTER ELEC RM 1A150 {1}
FIRE ALARM ACCESSORIES {1}			0.5	20	1	81	82	20	1			0.5	SECURE HOLDING VESDA PANEL
FIRE ALARM ACCESSORIES {1}			0.5	20	1	83	84	20	1		0.2		ELEC RM 1A150
TOTALS ---------->		1.3	5.5								4.3	6.0	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 42,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Load Description
	<----- Lighting
5.6	<----- Receptacles
	<----- Kitchen
	<----- Elevator
	<----- X-Ray
	<----- Mech
11.5	<----- Other

17.1 KVA SECTION TOTAL

PHASE BALANCE (SECT 2)

	A	B	C
KVA	7	6	4
%	42%	34%	24%
AMP	60	48	34

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= RED MARK FOR F.A.

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PANEL - SBL1 SECTION 3

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
SPARE				20	1	85	86		---			1.2	--
SPARE				20	1	87	88	30	3			1.2	EXT.SECURE GATE
SPARE				20	1	89	90		---			1.2	--
SPARE				20	1	91	92		---			1.2	--
SPARE				20	1	93	94	30	3			1.2	EXT.SECURE GATE
SPARE				20	1	95	96		---			1.2	--
SPARE				20	1	97	98		---			1.2	--
SPARE				20	1	99	100	30	3			1.2	EXT.SECURE GATE
ELEV 4 PIT REC & LT	0.1	0.2		20	1	101	102		---			1.2	--
ELEV 4 TOP OF SHAFT REC&LT	0.1	0.2		20	1	103	104		---			1.2	--
ELEV 6 PIT REC & LT	0.1	0.2		20	1	105	106	30	3			1.2	EXT.SECURE GATE
ELEV 6 TOP OF SHAFT REC&LT	0.1	0.2		20	1	107	108		---			1.2	--
ELEV 8 PIT REC & LT	0.1	0.2		20	1	109	110	20	1	0.1	0.2		ELEV 1 PIT REC & LT
ELEV 8 TOP OF SHAFT REC&LT	0.1	0.2		20	1	111	112	20	1	0.1	0.2		ELEV 1 TOP OF SHAFT REC&LT
ELEV 5 PIT REC & LT	0.1	0.2		20	1	113	114	20	1	0.1	0.2		ELEV 2 PIT REC & LT
ELEV 5 TOP OF SHAFT REC&LT	0.1	0.2		20	1	115	116	20	1	0.1	0.2		ELEV 2 TOP OF SHAFT REC&LT
ELEV 7 PIT REC & LT	0.1	0.2		20	1	117	118	20	1	0.1	0.2		ELEV 3 PIT REC & LT
ELEV 7 TOP OF SHAFT REC&LT	0.1	0.2		20	1	119	120	20	1	0.1	0.2		ELEV 3 TOP OF SHAFT REC&LT
ELEV 9 PIT REC & LT	0.1	0.2		20	1	121	122	20	1				SPARE
ELEV 9 TOP OF SHAFT REC&LT	0.1	0.2		20	1	123	124	20	1				SPARE
SPARE				20	1	125	126	20	1				SPARE
TOTALS ---------->	1.2	2.2								0.6	1.1	14.4	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 42,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Load Description
1.8	<----- Lighting
3.2	<----- Receptacles
	<----- Kitchen
	<----- Elevator
	<----- X-Ray
	<----- Mech
14.4	<----- Other

19.4 KVA SECTION TOTAL

PHASE BALANCE (SECT 3)

	A	B	C
KVA	6	6	6
%	33%	33%	33%
AMP	54	54	54

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

PANEL - SBL1 SECTION 4

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
SPARE				20	1	127	128	20	1				SPARE
SPARE				20	1	129	130	20	1				SPARE
SPARE				20	1	131	132	20	1				SPARE
SPARE				20	1	133	134	20	1				SPARE
SPARE				20	1	135	136	20	1				SPARE
SPARE				20	1	137	138	20	1				SPARE
SPARE				20	1	139	140	20	1				SPARE
SPARE				20	1	141	142	20	1				SPARE
SPARE				20	1	143	144	20	1				SPARE
SPARE				20	1	145	146	20	1				SPARE
SPARE				20	1	147	148	20	1				SPARE
SPARE				20	1	149	150	20	1				SPARE
SPARE				20	1	151	152	20	1				SPARE
SPARE				20	1	153	154	20	1				SPARE
SPARE				20	1	155	156	20	1				SPARE
SPARE				20	1	157	158	20	1				SPARE
SPARE				20	1	159	160	20	1				SPARE
SPARE				20	1	161	162	20	1				SPARE
SPARE				20	1	163	164	20	1				SPARE
SPARE				20	1	165	166	20	1				SPARE
SPARE				20	1	167	168	20	1				SPARE
TOTALS ---------->													<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 42,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Load Description
	<----- Lighting
	<----- Receptacles
	<----- Kitchen
	<----- Elevator
	<----- X-Ray
	<----- Mech
	<----- Other

KVA SECTION TOTAL

PHASE BALANCE (SECT 4)

	A	B	C
KVA			
%			
AMP			

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

PANEL - SBL2

PROJECT: ECHOJ-COURTS
LOCATION: RM 2B259

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
SPARE				20	1	1	2	20	1		0.5		2ND ELEC. RM 2A232, IDF 2A228
2nd IDF 2A228 RACK			0.8	30	2	3	4	20	1		0.5		2nd IDF 2A228
---			0.8		---		6	20	1			0.2	2ND IDF RMS- CP/FC-2-1, 2-3
2nd IDF 2A228 RACK			0.8	30	2	7	8	20	2			0.3	IDF'S FC-2-1, FC-2-3
---			0.8		---				---			0.3	--
2nd IDF 2A228 RACK			0.8	30	2	11	12	20	1			~~1.9~~	~~2ND ELEV SMK GUARDS~~
---			0.8		---		14	20	1				SPARE
2nd IDF 2A228 RACK			0.8	30	2	15	16	20	1			~~0.1~~	~~FSD @ 2A,2B~~
---			0.8		---		18	20	1		0.4		2ND FL AV RM-2A209
2nd IDF 2B260 RACK			0.8	30	2	19	20	20	1		0.5		2ND ELEC RM 2B295, IDF 2B260
---			0.8		---		22	20	1		0.5		2ND IDF 2B260
2nd IDF 2B260 RACK			0.8	30	2	23	24	20	1			1.0	2ND IDF 2B260 PAGING AMPLIFIE
---			0.8		---		26	20	1		1.6		ELECTRIFIED DOOR HARDWARE
2nd IDF 2B260 RACK			0.8	30	2	27	28	20	1		1.6		ELECTRIFIED DOOR HARDWARE
---			0.8		---		30	20	1			0.3	BAS IN ELEC RM 2B295
2nd IDF 2B260 RACK			0.8	30	2	31	32	20	1			0.3	FA BOOSTER RM 2B295 {1}
---			0.8		---		34	20	1			0.3	BAS IN CNTRL RM 2B211
2ND IDF 2B260 SECURITY PANEL		0.5		20	1	35	36	20	1		1.3		2ND CNTL RM 2B211, INFO, CASH
2ND IDF 2B260 SECURITY PANEL		0.5		20	1	37	38	20	1		0.2		BAS IN ELEC RM 2A232
2ND IDF 2A228 SECURITY PANEL		0.5		20	1	39	40	20	1		0.2		FA BOOSTER RM 2A232 {1}
2ND IDF 2A228 SECURITY PANEL		0.5		20	1	41	42	20	1		0.4		FIRE ALARM BELL
TOTALS ---------->		2.2	12.8								7.7	4.7	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 42K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 125A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
	100% OF LOAD		<----- Lighting
9.9	NEC 220-14(I)	9.9	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
1.8	1.0 + 25% Largest	2.0	<----- Mech
15.7	1.0	15.7	<----- Other

27.4 KVA — 27.6 KVA 76.6 Amps; +25% Spare 95.7 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	9	10	11
%	30%	33%	38%
AMP	74	81	94

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= MARK RED FOR F.A.

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PANEL - SBL3 SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 3B336

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
3RD ELEC RM 3A327, IDF 3A326		0.5		20	1	1	2	20	1				SPARE
3RD IDF RM 3A326		0.5		20	1	3	4	30	2			0.8	IDF 3A325 RACK
3RD IDF RMS- CP/FC-3-1, 3-3			0.2	20	1	5			---			0.8	--
3RD IDF RMS FC-3-1/FC 3-3			0.1	20	2	7	8	30	2			0.8	IDF 3A325 RACK
--			0.1		---				---			0.8	--
~~3RD ELEV SMK GUARDS~~			~~1.9~~	20	1	11	12	30	2			0.8	IDF 3A325 RACK
SPARE				20	1	13			---			0.8	--
~~3RD SFD'S 3A223, 3B346~~				20	1	15	16	30	2			0.8	IDF 3A325 RACK
3RD FL AV RM-3A309		0.4		20	1	17			---			0.8	--
3RD ELEC RM 3B336, IDF 3B338		0.5		20	1	19	20	30	2			0.8	IDF 3B337 RACK
3RD IDF 3B338				20	1	21			---			0.8	--
SPARE				20	1	23	24	30	2			0.8	IDF 3B337 RACK
SPARE				20	1	25			---			0.8	--
SPARE				20	1	27	28	30	2			0.8	IDF 3B337 RACK
SPARE				20	1	29			---			0.8	--
SPARE				20	1	31	32	30	2			0.8	IDF 3B337 RACK
~~3RD BAS ELEC RM 3A327~~			1.0	20	1	33			---			0.8	--
3RD FA BOOSTER RM 3A327 {1}			1.0	20	1	35	36	20	1		0.5		IDF 3B337 SECURITY PANEL
3RD FL AV RM-3B313		0.2		20	1	37	38	20	1		0.5		IDF 3B337 SECURITY PANEL
3RD BAS ELEC RM 3B336			1.0	20	1	39	40	20	1		0.5		IDF 3A325 SECURITY PANEL
3RD FA BOOSTER RM 3B336 {1}			1.0	20	1	41	42	20	1		0.5		IDF 3A325 SECURITY PANEL
TOTALS ---------->		2.2	6.3								2.2	12.8	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 125A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
	100% OF LOAD		<----- Lighting
8.8	NEC 220-14(I)	8.8	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
0.4	1.0 + 25% Largest	0.5	<----- Mech
18.7	1.0	18.7	<----- Other

27.9 KVA — 28.0 KVA 77.7 Amps; +25% Spare 97.1 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	6	8	10
%	25%	34%	41%
AMP	49	67	80

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= MARK RED FOR F.A.

DATE PRINTED: 02/04/16

PANEL - SBL3 SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 3B336

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
3RD DAS HUB WEST		0.9		20	1	43	44	20	1		0.5		ELECTRIFIED DOOR HW
3RD DAS HUB EAST		0.9		20	1	45	46	20	1		0.4		ELECTRIFIED DOOR HW
SPARE				20	1	47	48	20	1				SPARE
2ND DAS HUB WEST		0.9		20	1	49	50	20	1				SPARE
2ND DAS HUB EAST		0.9		20	1	51	52	20	1				SPARE
SPARE				20	1	53	54	20	1				SPARE
SPARE				20	1	55	56	20	1				SPARE
SPARE				20	1	57	58	20	1				SPARE
SPARE				20	1	59	60	20	1				SPARE
SPARE				20	1	61	62	20	1				SPARE
SPARE				20	1	63	64	20	1				SPARE
SPARE				20	1	65	66	20	1				SPARE
SPARE				20	1	67	68	20	1				SPARE
SPARE				20	1	69	70	20	1				SPARE
SPARE				20	1	71	72	20	1				SPARE
SPARE				20	1	73	74	20	1				SPARE
SPARE				20	1	75	76	20	1				SPARE
SPARE				20	1	77	78	20	1				SPARE
SPARE				20	1	79	80	20	1				SPARE
SPARE				20	1	81	82	20	1				SPARE
SPARE				20	1	83	84	20	1				SPARE
TOTALS ---------->		3.6									0.9		<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250 AMP BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Load Description
	<----- Lighting
4.5	<----- Receptacles
	<----- Kitchen
	<----- Elevator
	<----- X-Ray
	<----- Mech
	<----- Other

4.5 KVA SECTION TOTAL

PHASE BALANCE (SECT 2)

	A	B	C
KVA	2	2	
%	52%	48%	
AMP	20	18	

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

PANEL - SBL4 SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 4B433

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
4TH ELEC RM 4A427, IDF 4A426		0.5		20	1	1	2	20	1				SPARE
4TH IDF RM 4A426		0.5		20	1	3	4	30	2			0.8	IDF 4A426 RACK
4TH IDF RMS- CP/FC-4-1, CP/FC4			0.2	20	1	5			---			0.8	---
4TH IDF RMS FC-4-1 & FC 4-3			0.5	20	2	7	8	30	2			0.8	IDF 4A426 RACK
--			0.5		---				---			0.8	---
~~4TH ELEV SMK GUARDS~~			~~1.9~~	20	1	11	12	30	2			0.8	IDF 4A426 RACK
SPARE				20	1	13			---			0.8	---
~~4TH FSD'S 4A444, 4B446~~			0.1	20	1	15	16	30	2			0.8	IDF 4A426 RACK
4TH FL AV RM-4A409		0.4		20	1	17			---			0.8	---
4TH ELEC RM 4B433, IDF 4B434		0.5		20	1	19	20	30	2			0.8	IDF 4B434 RACK
4TH IDF 4B434				20	1	21			---			0.8	---
SPARE				20	1	23	24	30	2			0.8	IDF 4B434 RACK
SPARE				20	1	25			---			0.8	---
SPARE				20	1	27	28	30	2			0.8	IDF 4B434 RACK
SPARE				20	1	29			---			0.8	---
SPARE				20	1	31	32	30	2			0.8	IDF 4B434 RACK
~~4TH BAS ELEC RM 4A427~~			1.0	20	1	33			---			0.8	---
4TH FA BOOSTER RM 4A427 {1}			1.0	20	1	35	36	20	1		0.5	0.5	IDF 4B434 SECURITY
4TH FL AV RM-4B468, 4B469		0.4		20	1	37	38	20	1		0.5		IDF 4B434 SECURITY
4TH BAS ELEC RM 4B433			1.0	20	1	39	40	20	1		0.5		IDF 4A426 SECURITY
4TH FA BOOSTER RM 4B433{1}			1.0	20	1	41	42	20	1		0.5		IDF 4A426 SECURITY
TOTALS ---------->		2.3	7.2								2.2	13.3	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 125A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
	100% OF LOAD		<----- Lighting
9.2	NEC 220-14(I)	9.2	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
1.3	1.0 + 25% Largest	1.6	<----- Mech
18.7	1.0	18.7	<----- Other

29.2 KVA — 29.4 KVA 81.8 Amps; +25% Spare 102.2 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	6	8	10
%	26%	35%	39%
AMP	54	71	80

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= MARK RED FOR F.A.

DATE PRINTED: 02/04/16

PANEL - SBL4 SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 4B433

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
4TH DAS HUB WEST		0.9		20	1	43	44	20	1		0.5		ELECTRIFIED HOOR HW
4TH DAS HUB EAST		0.9		20	1	45	46	20	1		0.5		ELECTRIFIED HOOR HW
SPARE				20	1	47	48	20	1				SPARE
5TH DAS HUB EAST		0.9		20	1	49	50	20	1				SPARE
5TH DAS HUB EAST		0.9		20	1	51	52	20	1				SPARE
SPARE				20	1	53	54	20	1				SPARE
SPARE				20	1	55	56	20	1				SPARE
SPARE				20	1	57	58	20	1				SPARE
SPARE				20	1	59	60	20	1				SPARE
SPARE				20	1	61	62	20	1				SPARE
SPARE				20	1	63	64	20	1				SPARE
SPARE				20	1	65	66	20	1				SPARE
SPARE				20	1	67	68	20	1				SPARE
SPARE				20	1	69	70	20	1				SPARE
SPARE				20	1	71	72	20	1				SPARE
SPARE				20	1	73	74	20	1				SPARE
SPARE				20	1	75	76	20	1				SPARE
SPARE				20	1	77	78	20	1				SPARE
SPARE				20	1	79	80	20	1				SPARE
SPARE				20	1	81	82	20	1				SPARE
SPARE				20	1	83	84	20	1				SPARE
TOTALS ---------->		3.6									1.1		<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250 AMP BUSING
MAINS: MAIN LUGS ONLY

Connected Load (KVA)	Load Description
	<----- Lighting
4.7	<----- Receptacles
	<----- Kitchen
	<----- Elevator
	<----- X-Ray
	<----- Mech
	<----- Other

4.7 KVA SECTION TOTAL

PHASE BALANCE (SECT 2)

	A	B	C
KVA	2	2	
%	50%	50%	
AMP	20	20	

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

PANEL - SBL5

PROJECT: ECHOJ-COURTS
LOCATION: RM 5B533

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
5TH ELEC RM 5A527, IDF 5A526		0.5		20	1	1	2	20	1				SPARE
5TH IDF RM 5A526		0.5		20	1	3	4	30	2			0.8	IDF 5A526 RACK
5TH IDF RMS- CP/FC-5-1, 5-3			0.2	20	1	5			---			0.8	---
5TH IDF RMS FC-5-1, 5-3			0.5	20	2	7	8	30	2			0.8	IDF 5A526 RACK
--			0.5		---				---			0.8	---
~~5TH ELEV SMK GUARDS~~			~~1.9~~	20	1	11	12	30	2			0.8	IDF 5A526 RACK
SPARE				20	1	13			---			0.8	---
~~5TH FSD'S 5A544, 5B548, ROOF~~			0.2	20	1	15	16	30	2			0.8	IDF 5A526 RACK
5TH FL AV RM-5A570		0.4		20	1	17			---			0.8	---
5TH ELEC RM 5B533, IDF 53535		0.5		20	1	19	20	30	2			0.8	IDF 5B535 RACK
5TH IDF 5B535		0.5		20	1	21			---			0.8	---
SPARE				20	1	23	24	30	2			0.8	IDF 5B535 RACK
DAS AMPLIFIED 5TH FL IDF			1.0	20	1	25			---			0.8	---
ELECTRIFIED HARDWARE		0.9		20	1	27	28	30	2			0.8	IDF 5B535 RACK
~~ELECTRIFIED HARDWARE~~		~~0.9~~		20	1	29			---			0.8	---
SPARE				20	1	31	32	30	2			0.8	IDF 5B535 RACK
~~5TH BAS ELEC RM 5A527~~			1.0	20	1	33			---			0.8	---
5TH FA BOOSTER 5A527 {1}			1.0	20	1	35	36	20	1		0.5		IDF 5B535 SECURITY
5TH FL AV RM 5B573		0.2		20	1	37	38	20	1		0.5		IDF 5B535 SECURITY
5TH BAS ELEC RM 5B533			1.0	20	1	39	40	20	1		0.5		IDF 5A526 SECURITY
5TH FA BOOSTER 5B533 {1}			1.0	20	1	41	42	20	1		0.5		IDF 5A526 SECURITY
TOTALS ---------->		4.5	8.3								2.2	12.8	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 10K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 125A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
	100% OF LOAD		<----- Lighting
6.7	NEC 220-14(I)	6.7	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
1.2	1.0 + 25% Largest	1.5	<----- Mech
19.9	1.0	19.9	<----- Other

27.8 KVA — 28.0 KVA 77.8 Amps; +25% Spare 97.3 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	7	10	10
%	26%	36%	38%
AMP	61	84	87

ADDITIONAL FEATURES:
BREAKER NOTES:
{1}= MARK RED FOR F.A.

DATE PRINTED: 02/04/16

PANEL SBLR

PROJECT: ECHOJ-COURTS
LOCATION: RM 6B605

LOAD SERVED	Ltg	Rec	Oth Tot	Amp	Pole	Ckt	Ckt	Amp	Pole	Ltg	Rec	Oth Tot	LOAD SERVED
BAS CHILLER RM 6A606			1.0	20	1	1	2	20	1		0.4		ELEC RM 6B605
BAS PLENUM 6A603			1.0	20	1	3	4	20	1		0.4		ELEC RM 6A605
SPARE				20	1	5	6	20	1				SPARE
ROOF WEST FSD			0.1	20	1	7	8	20	1			0.1	BAS BOIL RM 6B606
SPARE				20	1	9	10	20	1			0.5	BAS BOIL RM 6B606
SPARE				20	1	11	12	20	1			1.0	BAS BOIL RM 6B603
SPARE				20	1	13	14	20	1			0.5	EF-4 ELEC 6B605
SPARE				20	1	15	16	20	1				SPARE
SPARE				20	1	17	18	20	1			0.5	ROOF EAST FSD
SPARE				20	1	19	20	20	1			0.2	SF-2 DEVICE POWER
SPARE				20	1	21	22	20	1				SPARE
SPARE				20	1	23	24	20	1				SPARE
SPARE				20	1	25	26	20	1				SPARE
SPARE				20	1	27	28	20	1				SPARE
SPARE				20	1	29	30	20	1				SPARE
SPARE				20	1	31	32	20	1				SPARE
SPARE				20	1	33	34	20	1				SPARE
SPARE				20	1	35	36	20	1				SPARE
SPARE				20	1	37	38	20	1				SPARE
SPARE				20	1	39	40	20	1				SPARE
SPARE				20	1	41	42	20	1				SPARE
TOTALS ---------->			2.1								0.7	2.8	<-------- TOTALS

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 10K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 250A BUSING
MAINS: 100A MAIN BKR.

Connected Load (KVA)	Demand Factor	Demand Load	Load Description
	100% OF LOAD		<----- Lighting
0.7	NEC 220-14(I)	0.7	<----- Receptacles
	NEC 220-56		<----- Kitchen
	NEC 620-14		<----- Elevator
	NEC 517.73(A)		<----- X-Ray
2.8	1.0 + 25% Largest	3.1	<----- Mech
2.1	1.0	2.1	<----- Other

5.6 KVA — 5.9 KVA 16.3 Amps; +25% Spare 20.4 Amps

PHASE BALANCE (SECT 1)

	A	B	C
KVA	2	2	2
%	40%	33%	27%
AMP	19	16	13

ADDITIONAL FEATURES:

DATE PRINTED: 02/04/16

FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

CONSULTANT
The Engineering Enterprise Consulting Engineers
1305 MARINA VILLAGE PKWY # 100
ALAMEDA, CA 94501-1122
(510) 769-7600
JOB #14095
Morrow-Meadows Corp.

EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015
	DP-4 RESP 1 ADD B	02/04/2016

STAMP
REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — STATE OF CALIFORNIA

DRAWING TITLE
SCHEDULES - PANELS

PROJECT #:20130014.001
OSFM: 01-01-11-0005
SHEET NUMBER
E0009

DP-4 RESP 1 ADD B

PANEL SBH2

PROJECT: ECHOJ -COURTS
LOCATION: RM 2B259

VOLTAGE: 277/480V, 3Ø, 4W · S.C.A.: 25K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 150A MAIN BKR.

BREAKER NOTES: (1)= RM ALSO SERVED FROM EH

DATE PRINTED: 07/23/15

PANEL SBH5

PROJECT: ECHOJ -COURTS
LOCATION: RM 5B533

VOLTAGE: 277/480V, 3Ø, 4W · S.C.A.: 25K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 125A MAIN BKR.

BREAKER NOTES: (1)= RM ALSO SVD FROM EH5

DATE PRINTED: 07/23/15

PANEL - SBL1 — SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 400A BUSING · MAINS: 400A MAIN BKR.

DATE PRINTED: 07/23/15

PANEL - SBL1 — SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22,000 AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 400 AMP BUSING · MAINS: MAIN LUGS ONLY

BREAKER NOTES: (1)= RED MARK FOR F.A.

DATE PRINTED: 07/23/15

PANEL - SBL1 — SECTION 3

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22,000 AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 400 AMP BUSING · MAINS: MAIN LUGS ONLY

34.6 KVA SECTION TOTAL

DATE PRINTED: 07/23/15

PANEL - SBL1 — SECTION 4

PROJECT: ECHOJ-COURTS
LOCATION: RM 1B166

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22,000 AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 400 AMP BUSING · MAINS: MAIN LUGS ONLY

21.2 KVA SECTION TOTAL

DATE PRINTED: 07/23/15

PANEL - SBL2

PROJECT: ECHOJ-COURTS
LOCATION: RM 2B259

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 125A MAIN BKR.

BREAKER NOTES: (1)= MARK RED FOR F.A.

DATE PRINTED: 07/23/15

PANEL - SBL3 — SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 3B336

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 125A MAIN BKR.

BREAKER NOTES: (1)= MARK RED FOR F.A.

DATE PRINTED: 07/23/15

PANEL - SBL3 — SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 3B336

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22,000 AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225 AMP BUSING · MAINS: MAIN LUGS ONLY

4.5 KVA SECTION TOTAL

DATE PRINTED: 07/23/15

PANEL - SBL4 — SECTION 1

PROJECT: ECHOJ-COURTS
LOCATION: RM 4B433

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 125A MAIN BKR.

BREAKER NOTES: (1)= MARK RED FOR F.A.

DATE PRINTED: 07/23/15

PANEL - SBL4 — SECTION 2

PROJECT: ECHOJ-COURTS
LOCATION: RM 4B433

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22,000 AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225 AMP BUSING · MAINS: MAIN LUGS ONLY

4.7 KVA SECTION TOTAL

DATE PRINTED: 07/23/15

PANEL - SBL5

PROJECT: ECHOJ-COURTS
LOCATION: RM 5B533

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 125A MAIN BKR.

BREAKER NOTES: (1)= MARK RED FOR F.A.

DATE PRINTED: 07/23/15

PANEL SBLR

PROJECT: ECHOJ-COURTS
LOCATION: RM 6B605

VOLTAGE: 120/208V, 3Ø, 4W · S.C.A.: 22K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 225A BUSING · MAINS: 100A MAIN BKR.

DATE PRINTED: 07/23/15

PANEL EH2

PROJECT: ECHOJ-COURTS
LOCATION: RM 2B259

VOLTAGE: 277/480V, 3Ø, 4W · S.C.A.: 25K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 100A BUSING · MAINS: 100A MAIN BKR.

DATE PRINTED: 07/23/15

PANEL EH5

PROJECT: ECHOJ -COURTS
LOCATION: RM 5B533

VOLTAGE: 277/480V, 3Ø, 4W · S.C.A.: 25K AIC RMS SYM. · MOUNTING: SURFACE · BUS SIZE: 100A BUSING · MAINS: 75A MAIN BKR.

DATE PRINTED: 07/23/15

FENTRESS ARCHITECTS

HENSEL PHELPS — Plan. Build. Manage.

CONSULTANT: The Engineering Enterprise — 1305 MARINA VILLAGE PKWY # 100, ALAMEDA, CA 94501-1122 — JOB #14095

Morrow-Meadows Corp.

EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

STAMP

DRAWING TITLE: SCHEDULES - PANELS

PROJECT #:20130014.001
OSHPD: 01-01-11-0005

SHEET NUMBER: E0009

DP-4 RESP 1

PANEL H1SW

PROJECT: ECHOJ -COUNTY BLDG
LOCATION: RM 1C145

LOAD SERVED	Ckt	Ckt	LOAD SERVED
LTG OPEN OFFICE1C110 VIA LCP	1	2	LTG 1ST FL HALL EGRESS
LTG W 1ST OFFICE VIA MS	3	4	LTG 1ST FL HALL VIA LCP
LTG 1ST UTIL/RR/STOR VIA MS	5	6	EXIT SIGNS 1ST FL HALL
LTG 1ST ELEC/IDF/MECH	7	8	LCP POWER
SPARE	9	10	LTG 1ST FL NIGHT LIGHT
LTG E 1ST CONFERENCE RM VIA M	11	12	SPARE
LTG E 1ST OFFICE VIA MS	13	14	SITE PKG LOT LIGHTS-LCP
LTG E 1ST OPEN OFFICE 1D108	15	16	EXT LTG VIA INVERTER
SPARE	17	18	SITE TRASH ENCLOSURE
SPARE	19	20	SITE SIGNAGE - COUNTY
SPARE	21	22	SPARE
SPARE	23	24	SPARE
SPARE	25	26	SPARE
SPARE	27	28	SPARE
SPARE	29	30	SPARE
	31	32	
	33	34	
---	35	36	
PANEL H2SW	37	38	
---	39	40	
	41	42	

TOTALS
VOLTAGE: 277/480V, 3Ø, 4W
S.C.A.: 25K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 100A BUSING
MAINS: 100A MAIN BKR.
50.2 KVA — 62.8 KVA 75.5 Amps, +25% Spare 94.4 Amps
PHASE BALANCE (SECT 1): KVA 22 16 12; % 43% 32% 25%; AMP 78 58 45
DATE PRINTED: 02/04/16

PANEL H2SW

PROJECT: ECHOJ -COUNTY BLDG
LOCATION: RM 2C241

LOAD SERVED	Ckt	Ckt	LOAD SERVED
LTG W 2ND OFFICE VIA MS	1	2	LTG 2ND FL HALL EGRESS
LTG 2ND FL OPEN OFF, EVI,D-LC	3	4	LTG 2ND FL HALL VIA LCP
LTG 2ND UTIL/RR/WELLNESS-MS	5	6	LTG 2ND EXIT SIGNS
LTG 2ND ELEC/IDF/MECH	7	8	LCP POWER
SPARE	9	10	LTG 2ND NIGHT LIGHT
LTG 2ND E OFFICE - MS	11	12	SPARE
LTG 2ND SCANFILES	13	14	SPARE
SPARE	15–29	16–30	SPARE
	31–41	32–42	XXX

VOLTAGE: 277/480V, 3Ø, 4W
S.C.A.: 25K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 100A BUSING
MAINS: 80A MAIN BKR.
21.5 KVA — 26.9 KVA 32.3 Amps, +25% Spare 40.4 Amps
PHASE BALANCE (SECT 1): KVA 7 8 7; % 33% 36% 31%; AMP 25 28 24
DATE PRINTED: 02/04/16

PANEL - L1SW — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1C145

LOAD SERVED	Ckt	Ckt	LOAD SERVED
OFFICE 1C127, 1C128	1	2	OPEN OFFICE 1C110
COPIER 1C123	3	4	OPEN OFFICE 1C110
COPIER 1C123	5	6	OPEN OFFICE 1C110
SUPPORT 1C123, CONF 1C117	7	8	OPEN OFFICE 1C110
OFFICE 1C105, 1C106	9	10	SPARE
BREAK 1C104	11	12	SPARE
UTILITY 1C103	13	14	OPEN OFFICE 1C110
RECEIVING 1C101	15	16	OPEN OFFICE 1C110
DISPOSAL 1C104	17	18	OPEN OFFICE 1C110
REFRIGERATOR 1C104	19	20	OPEN OFFICE 1C110
COFFEE MAKER 1C104	21	22	CORNER OFFICE 1C110
MICROWAVE 1C104	23	24	CONF 1C117 AV OUTLET (1)
CIRC 1C114, 1C126, 1C151	25	26	OPEN OFFICE 1C110
RECEPTION 1C155	27	28	OPEN OFFICE 1C110
OFFICE 1C126	29	30	OPEN OFFICE 1C110
SUBFEED L2SW	31–35	32	OPEN OFFICE 1C110
		34	SPARE
		36	CONF FLR BOX-1C117 AV- (1)
TELEVIDEO 1C119, 120, 121	37	38	CONF FLR BOX-1C117
RR 1C118, STOR 122, 1C125	39	40	CONF FLR BOX-1C117
CIRC 1C109, 1C110, 1C114	41	42	CONF 1C117 PROJ & SCRN (1)

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400A BUSING
MAINS: 400A MAIN BKR.
142.4 KVA — 92.8 KVA 257.7 Amps, +25% Spare 322.1 Amps
PHASE BALANCE (SECT 1): KVA 36 32 31; % 37% 32% 31%; AMP 301 266 257
BREAKER NOTES: (1)= DEDICATED NEUTRAL
DATE PRINTED: 02/04/16

PANEL - L1SW — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1C145

LOAD SERVED	Ckt	Ckt	LOAD SERVED
1C147, 1C148	43	44	OPEN OFFICE 1C110, 1C126
HAND DRYER 1C147	45	46	OPEN OFFICE 1C110, 1C126
HAND DRYER 1C148	47	48	OPEN OFFICE 1C110, 1C126
CUSTODIAL 1C133	49	50	OPEN OFFICE 1C110, 1C126
STOR 1C143, 1C144	51	52	OPEN OFFICE 1C126 PRINTER
CIRC1C100, 1C150	53	54	SPARE
SPARE	55	56	OPEN OFFICE 1C124
SPARE	57	58	OPEN OFFICE 1C124
SPARE	59	60	OPEN OFFICE 1C124
INTERVIEW1C153, 1C154	61	62	OPEN OFFICE 1C124
INTERVIEW 1C46, 1C152	63	64	OPEN OFFICE 1C124-PRINTER
INTERVIEW 1C146	65	66	SPARE
SPARE	67	68	ELECTRIFIED DOOR HW
SPARE	69	70	SPARE
SPARE	71	72	SPARE
FACP 1C132	73	74	IRRIGATION CNTRL
FA BATT 1C132	75	76	SPARE
FA BATT 1C132	77	78	DWS-2 UTILITY RM 1C103
FIRE ALARM BELL	79	80	SPARE
ELEC RMS 1C132, 1C145	81	82	TF-11 NEAR 1C145
FSD'S WEST	83	84	TF-12 NEAR 1C132

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY
38.5 KVA SECTION TOTAL
PHASE BALANCE (SECT 2): KVA 8 23 8; % 20% 60% 20%; AMP 65 193 63
DATE PRINTED: 02/04/16

PANEL L1SE — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

LOAD SERVED	Ckt	Ckt	LOAD SERVED
OFFICE 1D135, 1D136, 1D137	1	2	OPEN OFFICE 1D108
OFFICE 1D137, 1D138, 1D139, 1D140	3	4	OPEN OFFICE 1D108
OFFICE 1D140, 1D141, 1D142	5	6	OPEN OFFICE 1D108
OFFICE 1D142, 1D143, 1D144, 1D145	7	8	OPEN OFFICE 1D108
OFFICE1D145, 1D146, 1D147	9	10	OFFICE 1D142 PRINTER
OFFICE 1D148, 1D150, 1D151	11	12	OPEN OFFICE 1D101
PRINTER 1D148, D142	13	14	OPEN OFFICE 1D101
PRINTER 1D108 (2)	15	16	OPEN OFFICE 1D101
SPARE	17	18	OPEN OFFICE 1D101
OFFICE 1D151, 1D152, 1D153	19	20–24	SUBFEED L2SE
OFFICE 1D154, 1D155, 1D156	21		
OFFICE 1D157, 1D158, 1D159	23		
OFFICE 1D101,1D156,1D157	25	26	---
SPARE	27	28	CONF RM 1D130
RECEPTION 1D108, 1D115	29	30	REFRIGERATOR 1D128
PRINTER 1D159,1D101, HALL	31	32	WORK RM 1D131, 132, 128
REC 1D115 KIOSK	33	34	1D124, 1D126, 1D127
REC 1D115 KIOSK	35	36	OFFICE 1D120, 1D121
CIRC. RR 1D112, 1D113, 1D114	37	38	PRINTER 1D120
CIRC. JAN 1D100, CL 1D102	39	40	OFFICE 1D122, 1D123
RIGHTLOWER CORRIDOR	41	42	FSD EAST

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400A BUSING
MAINS: 400A MAIN BKR.
148.3 KVA — ### KVA 320.3 Amps, +25% Spare 400.4 Amps
PHASE BALANCE (SECT 1): KVA 38 33 30; % 38% 33% 30%; AMP 318 279 250
DATE PRINTED: 02/04/16

PANEL L1SE — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

LOAD SERVED	Ckt	Ckt	LOAD SERVED
COPIER 1D132	43	44	MDF 326 REC
COPIER 1D132	45	46	MDF 326 REC
COFFEE MAKER 1D128	47	48	MDF 326 REC
MICROWAVE 1D128	49	50	BAS IN MDF 326
MDF 326 RACK	51	52	MDF 326 RACK
MDF 326 RACK	55	56	MDF 326 RACK
MDF 326 RACK	59	60	MDF 326 RACK
MDF 326 RACK	63	64	MDF 326 RACK
MDF 326 RACK	67	68	MDF 326 RACK
MDF 326 RACK	71	72	MDF 326 RACK
MDF 326 RACK	75	76	MDF 326 RACK
MDF 326 RACK	79	80	MDF 326 RACK
SPARE	83	84	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY
33.1 KVA SECTION TOTAL
PHASE BALANCE (SECT 2): KVA 12 11 10; % 35% 34% 31%; AMP 96 95 85
DATE PRINTED: 02/04/16

PANEL L1SE — SECTION 3

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

LOAD SERVED	Ckt	Ckt	LOAD SERVED
ELECTRICAL ROOM 1D109	85	86	HAND DRYER 1D114
ELEC 1D109 TF 1-3	87	88	HAND DRYER 1D113
SPARE	89	90	CONF 1D105 DED. AV (1)
MDF 1C149 SECURITY EQMT	91	92	CONF 1D106 DED. AV (1)
MDF 1C149 SECURITY EQMT	93	94	SPARE
SPARE	95	96	CONF 1D105 PROJ. & SCRN (1)
1ST FL DAS HUB	97	98	CONF 1D106 PROJ. & SCRN (1)
1ST FL DAS HUB	99	100	CONF 1D105 WALL REC
SPARE	101	102	CONF 1D105 FLR BOX (1)
SPARE	103	104	CONF 1D106 (1)
SPARE	105	106	CONF 1D106 WALL AND CLG SMI
SPARE	107–125	108–126	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 400 AMP BUSING
MAINS: MAIN LUGS ONLY
13.6 KVA SECTION TOTAL
PHASE BALANCE (SECT 3): KVA 6 6 2; % 44% 42% 15%; AMP 50 47 17
BREAKER NOTES: (1)= DEDICATED NEUTRAL
DATE PRINTED: 02/04/16

PANEL L2SE — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

LOAD SERVED	Ckt	Ckt	LOAD SERVED
OFFICE 2C200, 2D208, 2D207	1	2	OPEN OFFICE 2D240
OFFICE2D206, 2D205, 2D204	3	4	OPEN OFFICE 2D240
OFFICE 2D204, 2D203, 2D202, 2D	5	6	OPEN OFFICE 2D240
OFFICE 2D201, 2D200, 2D249	7	8	OPEN OFFICE 2D240
OFFICE 2D249, 2D248, 2D247	9	10	SPARE
OFFICE 2D245,2D246	11	12	SPARE
FAX 2D224	13	14	OPEN OFFICE 2D240, 2D224
COPIER 2D224	15	16	OPEN OFFICE 2D240, 2D224
COPIER 2D224	17	18	OPEN OFFICE 2D240, 2D224
SCAN 2D224	19	20	OPEN OFFICE 2D240, 2D224
SCAN 2D224	21	22	OPEN OFF. 2D240,2D241 -COPIER
SCAN 2D224	23	24	OPEN OFFICE 2D241 -COPIER
SCAN 2D224	25	26	VOL./INTERN OFFICE 2D217
SCAN 2D224	27	28	VOL./INTERN OFFICE 2D217
SCAN 2D224 SHELVING (1)	29	30	VOL./INTERN OFFICE 2D217
SPARE	31	32	VOL./INTERN OFFICE 2D217
SPARE	33	34	OFFICE 2D217 PRINTER
2D212, 2D218	35	36	SPARE
2D213, 2D214	37	38	CONF. FLOOR BOX 2D223 (1)
OFFICE 2D215, 2D216	39	40	SPARE
PRINTER 2D249	41	42	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 225A BUSING
MAINS: 200A MAIN BKR.
63.7 KVA — 51.0 KVA 141.7 Amps, +25% Spare 177.1 Amps
PHASE BALANCE (SECT 1): KVA 12 12 10; % 35% 35% 30%; AMP 99 100 83
BREAKER NOTES: (1)= DEDICATED NEUTRAL
DATE PRINTED: 02/04/16

PANEL L2SE — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

LOAD SERVED	Ckt	Ckt	LOAD SERVED
CONF 2D223-AV (1)	43	44	ELEC RM 2D227
2D226, 2D225	45	46	IDF 2D231
STOR 2D221, CIRC 2C211	47	48	IDF 2D231
CONF 2D223-PROJ & SCRN (1)	49	50	IDF 2D231
SW CORRIDOR 2C211	51	52	IDF 2D231 RACK
CIRC 2C211, RR 2D242, RR 2D24	53	54	---
PRINTER 2D208	55	56	IDF 2D231 RACK
TF 2-3 OUTSIDE 2D227	57	58	---
CORRIDOR-2D240-OFFICES	59	60	IDF 2D231 RACK
COFFEE MAKER 2D213	61	62	---
MICROWAVE 2D213	63	64	IDF 2D231 RACK
REFRIGERATOR 2D213	65	66	---
PRINTER 2D212	67	68	BAS IDF 2D231
SPARE	69	70	SECURITY PANEL IN IDF 2D231
SPARE	71	72	SECURITY PANEL IN IDF 2D231
IT STORAGE 2D260	73	74	BOILER RM 2D222
IT STORAGE 2D260	75	76	BOILER RM 2D222- CP-2
IT STORAGE 2D260	77	78	BOILER RM 2D222-DWH-3
IT STORAGE 2D260	79	80	FSD'S EAST
SPARE	81	82	BOILER RM 2D222 B-4 (2)
SPARE	83	84	BOILER RM 2D222 B-5 (2)

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 225 AMP BUSING
MAINS: MAIN LUGS ONLY
29.2 KVA SECTION TOTAL
PHASE BALANCE (SECT 2): KVA 10 10 10; % 35% 33% 31%; AMP 85 80 79
(2) STD BKR
BREAKER NOTES: (1)= DEDICATED NEUTRAL
DATE PRINTED: 02/04/16

PANEL L2SE — SECTION 3

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

LOAD SERVED	Ckt	Ckt	LOAD SERVED
2ND DAS HUB	85	86	SPARE
2ND DAS HUB	87	88	SPARE
SPARE	89–125	90–126	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 225 AMP BUSING
MAINS: MAIN LUGS ONLY
1.8 KVA SECTION TOTAL
PHASE BALANCE (SECT 3): KVA 1 1; % 50% 50%; AMP 8 8
DATE PRINTED: 02/04/16

PANEL L2SW — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2C241

LOAD SERVED	Ckt	Ckt	LOAD SERVED
OFFICE 2C232, 2C233	1	2	OPEN OFFICE 2C234, 2C258
OFFICE 2C230, 2C227	3	4	OPEN OFFICE 2C234, 2C258
WAITING 2C225	5	6	OPEN OFFICE 2C234, 2C258
RECEPTION 2C223, 2C220, HALL	7	8	OPEN OFFICE 2C234, 2C258
INTERVIEW 2C224,226,228,231	9	10	SPARE
PRINTER 2C257	11	12	SPARE
EVIDENCE 2C256	13	14	OPEN OFFICE 2C258
EVIDENCE 2C256	15	16	OPEN OFFICE 2C258
REFRIGERATOR-EVIDENCE 2C25	17	18	OPEN OFFICE 2C258
WELLNESS 2C252	19	20	OPEN OFFICE 2C58
EXERCISE EQUIPMENT 2C252	21	22	SPARE
EXERCISE EQUIPMENT 2C252	23	24	SPARE
MONITOR 2C252	25	26	RECEPTION 2C219
MONITOR 2C252	27	28	RECEPTION 2C219
SPARE	29	30	RECEPTION 2C219
HAND DRYER 2C221	31	32	RECEPTION 2C219-PRINTER
HAND DRYER 2C223	33	34	SPARE
SPARE	35	36	SPARE
MENS RR 2C250	37	38	CONFERENCE TABLE 2C200
HAND DRYER 2C251	39	40	SPARE
HAND DRYER 2C250	41	42	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 225A BUSING
MAINS: 200A MAIN BKR.
66.2 KVA — 45.8 KVA 127.3 Amps, +25% Spare 159.1 Amps
PHASE BALANCE (SECT 1): KVA 11 10 7; % 40% 34% 26%; AMP 95 80 60
DATE PRINTED: 02/04/16

PANEL L2SW — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2C241

LOAD SERVED	Ckt	Ckt	LOAD SERVED
OFF 2C215,216, WAIT 2C218	43	44	COFFEE MAKER 2C218
OFFICE 2C213, 2C214, 2C215	45	46	MICROWAVE OVEN 2C242
OFFICE 2C210, 2C212	47	48	REFRIGERATOR 2C217
CIRC 2C211	49	50	MICROWAVE OVEN 2C242
OFFICE 2C210 & 2C201 PRINTER	51	52	DISPOSAL 2C242
PRINT 2C217	53	54	COFFEE MAKER 2C242
OFFICE 2C207, 2C208, 2C209	55	56	MICROWAVE OVEN 2C242
OFFICE 2C204, 2C205, 2C206, 2C207	57	58	REFRIGERATOR 2C242
OFFICE 2C201, 2C203	59	60	REFRIGERATOR 2C242
CONF. 2C200 -AV (1)	61	62	BREAK 2C242
OFFICE 2C243, 2C244	63	64	WOMENS RESTROOM 2C251
OFFICE 2C244, 2C245	65	66	EAST CORRIDOR, JAN
CONF. 2C200 -AV (1)	67	68	RESTROOMS 2C221, 2C222
OFFICE 2C243	69	70	MICROWAVE OVEN 2C242
SPARE	71	72	SPARE
CONF. 2C200 -PROJ & SCRN (1)	73	74	SPARE
OFFICE 2C247, 2C248	75	76	SPARE
OFFICE 2C245, 2C246	77	78	SPARE
SPARE	79	80	FSD'S WEST
SPARE	81	82	FA POWER BOOSTER 2C241
SPARE	83	84	ELEC RM 2C241

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22,000 AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 225 AMP BUSING
MAINS: MAIN LUGS ONLY
35.0 KVA SECTION TOTAL
PHASE BALANCE (SECT 2): KVA 12 12 11; % 35% 34% 31%; AMP 103 100 89
BREAKER NOTES: (1)= DEDICATED NEUTRAL
DATE PRINTED: 02/04/16

PANEL L2SER

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: ROOF 3C300

LOAD SERVED	Ckt	Ckt	LOAD SERVED
MECH. SCREEN 3D300-LTG	1	2	MECH. SCREEN 3C300-REC
MECH. SCREEN 3D300-LTG	3	4	MECH. SCREEN 3C300-LTG
MECH. SCREEN 3D300-REC	5	6	MECH. SCREEN 3C300-LTG
SPARE	7	8	SPARE
REF-7 EAST ROOF	9	10	REF-9 WEST ROOF
REF-10 EAST ROOF	11	12	REF-8 WEST ROOF
ECAC-2 LTS	13	14	ECAC-1 LTS
ECAC-2 REC	15	16	ECAC-1 REC
ECAC-2 WATER TRMT	17	18	ECAC-1 WATER TRMT
SPARE	19	20	SOU-2 ROOF/SU-2 RM 2D231
SPARE	21–41	22–42	SPARE

VOLTAGE: 120/208V, 3Ø, 4W
S.C.A.: 22K AIC RMS SYM.
MOUNTING: SURFACE
BUS SIZE: 100A BUSING
MAINS: 100A MAIN BKR.
11.0 KVA — 11.8 KVA 32.7 Amps, +25% Spare 40.9 Amps
PHASE BALANCE (SECT 1): KVA 3 4 4; % 29% 35% 36%; AMP 26 32 33
DATE PRINTED: 02/04/16

ECHOJ - COUNTY — 02/04/16 — EQUIPMENT CALCULATION SHEET

Equipment Designation: HD2SE
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	1.9	125% OF LOAD	2.4	KVA		(1)
Receptacles	2.5	NEC 220-14(I)	2.5	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	317.4	1.0 + 25% Largest	354.9	KVA		
Other	0.0	1.0	0.0	KVA		
Equipment Total	321.8		359.8	KVA		

Full Load Demand Amps 433.0 Amps
Amps X 1.25 541.2 Amps
Feeder Size 8003 Amps
Circuit Breaker Size 800 Amps
Equipment Bus Rating 800 Amps

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ-COUNTY — 02/04/16 — EQUIPMENT CALCULATION SHEET

Equipment Designation: MSB
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting, EV	172.6	125% OF LOAD	215.8	KVA		(1)
Receptacles	169.4	NEC 220-14(I)	89.7	KVA		(2)
Kitchen	32.8	NEC 220-56	21.3	KVA	9	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	339.3	1.0 + 25% Largest	376.8	KVA		
Other incl Future PV	364.6	1.0	364.6	KVA		
Equipment Total	1078.6		1068.1	KVA		

Full Load Demand Amps 1285.3 Amps
Amps X 1.25 1606.6 Amps
Feeder Size 16004 Amps
Circuit Breaker Size 1600 Amps
Equipment Bus Rating 1600 Amps

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 95%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

FENTRESS ARCHITECTS
HENSEL PHELPS Plan. Build. Manage.
CONSULTANT: The Engineering Enterprise, Consulting Engineers — 1305 MARINA VILLAGE PKWY # 100, ALAMEDA, CA 94501-1122 — JOB #14095
Morrow-Meadows Corp.

EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015
	DP-4 RESP 1 ADD B	02/04/2016

STAMP: REGISTERED PROFESSIONAL ENGINEER — No. E1**** Exp. 03/31/17 — ELECTRICAL — STATE OF CALIFORNIA

DRAWING TITLE: SCHEDULES - PANELS
PROJECT #:20130014.001
OSFM: 01-01-11-0005
SHEET NUMBER: E0010
DP-4 RESP 1 ADD B

2/4/2016 9:57:11 AM
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PANEL H1SW

PROJECT: ECHOJ -COUNTY BLDG
LOCATION: RM 1C145

PANEL H2SW

PROJECT: ECHOJ -COUNTY BLDG
LOCATION: RM 2C241

PANEL - L1SW — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1C145

PANEL - L1SW — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1C145

PANEL L1SE — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

PANEL L1SE — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

PANEL L1SE — SECTION 3

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 1D109

PANEL L2SE — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

PANEL L2SE — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

PANEL L2SE — SECTION 3

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2D227

PANEL L2SW — SECTION 1

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2C241

PANEL L2SW — SECTION 2

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: RM 2C241

PANEL L2SER

PROJECT: ECHOJ-COUNTY BLDG
LOCATION: ROOF 3C300

ECHOJ - COUNTY	07/23/15	EQUIPMENT CALCULATION SHEET			
Equipment Designation:	HD2SE				
Equipment Voltage:	277/480V, 3Ø, 4W				
Load Category	Connected Load	Code Allowed Demand Factor	Demand Load	Number of Pieces of Equipment	Notes
Lighting	1.9	125% OF LOAD	2.4 KVA		(1)
Receptacles	2.5	NEC 220-14(I)	2.5 KVA		(2)
Kitchen	0.0	NEC 220-56	0.0 KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0 KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0 KVA		(5)
Mechanical	317.4	1.0 + 25% Largest	354.9 KVA		
Other	0.0	1.0	0.0 KVA		
Equipment Total	**321.8**		**359.8 KVA**		
Full Load Demand Amps		433.0	Amps		
Amps X 1.25		541.2	Amps		
Feeder Size		8003	Amps		
Circuit Breaker Size		800	Amps		
Equipment Bus Rating		800	Amps		

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ-COUNTY	07/23/15	EQUIPMENT CALCULATION SHEET			
Equipment Designation:	MSB				
Equipment Voltage:	277/480V, 3Ø, 4W				
Load Category	Connected Load	Code Allowed Demand Factor	Demand Load	Number of Pieces of Equipment	Notes
Lighting, Future PV, EV	440.2	125% OF LOAD	550.3 KVA		(1)
Receptacles	169.4	NEC 220-14(I)	89.7 KVA		(2)
Kitchen	32.8	NEC 220-56	21.3 KVA	9	(3)
Elevator	0.0	NEC 620-14	0.0 KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0 KVA		(5)
Mechanical	339.3	1.0 + 25% Largest	376.8 KVA		
Other	79.6	1.0	79.6 KVA		
Equipment Total	**1061.2**		**1117.6 KVA**		
Full Load Demand Amps		1344.9	Amps		
Amps X 1.25		1681.1	Amps		
Feeder Size		16004	Amps		
Circuit Breaker Size		1600	Amps		
Equipment Bus Rating		1600	Amps		

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

FENTRESS ARCHITECTS
HENSEL PHELPS Plan. Build. Manage.

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EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

STAMP
REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/17 ELECTRICAL STATE OF CALIFORNIA

DRAWING TITLE
SCHEDULES - PANELS

PROJECT #:20130014.001
OSFM: 01-01-11-0005
SHEET NUMBER
E0010

DP-4 RESP 1

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ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **GENERATOR**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	125.3	125% OF LOAD	156.6	KVA		(1)
Receptacles	42.7	NEC 220-14(I)	26.4	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	227.0	NEC 620-14	186.1	KVA	5	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	220.2	1.0 + 25% Largest	257.2	KVA		
Other	455.3	1.0	455.3	KVA		
Equipment Total	**1070.6**		**1081.7**	**KVA**		
	15% SPARE CAPACITY		**1243.9**			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **MSA**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting & Future PV	329.1	125% OF LOAD	411.4	KVA		(1)
Receptacles	317.8	NEC 220-14(I)	163.9	KVA		(2)
Kitchen	74.6	NEC 220-56	48.5	KVA	9	(3)
Elevator	517.0	NEC 620-14	377.4	KVA	9	(4)
Mechanical	1145.7	1.0 + 25% Largest	1170.7	KVA		
Other	514.3	1.0	514.3	KVA		
Equipment Total	**2898.6**		**2686.2**	**KVA**		
Full Load Demand Amps		3232.5	Amps			
Amps X 1.25		4040.6	Amps			
Feeder Size		40004	Amps			
Circuit Breaker Size		4000	Amps			
Equipment Bus Rating		4000	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%

ECHOJ — 05/18/15 — **EQUIPMENT LOAD CALCULATION SHEET**

Equipment Designation: **CHD1E**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	0.0	125% OF LOAD	0.0	KVA		(1)
Receptacles	0.0	NEC 220-14(I)	0.0	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	9	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	174.0	1.0 + 25% Largest	206.5	KVA		
UTX1E	300.2	1.0	300.2	KVA		
Equipment Total	**474.2**		**506.7**	**KVA**		
Full Load Demand Amps		609.7	Amps			
Amps X 1.25		762.2	Amps			
Feeder Size		8003	Amps			
Circuit Breaker Size		800	Amps			
Equipment Bus Rating		800	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **SHD1**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	68.0	125% OF LOAD	85.0	KVA		(1)
Receptacles	68.3	NEC 220-14(I)	39.2	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	517.0	NEC 620-14	377.4	KVA	9	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	35.3	1.0 + 25% Largest	68.8	KVA		
Other	126.7	0.9	107.7	KVA		
Equipment Total	**815.3**		**678.1**	**KVA**		
Full Load Demand Amps		816.0	Amps			
Amps X 1.25		1020.0	Amps			
Feeder Size		10004	Amps			
Circuit Breaker Size		1000	Amps			
Equipment Bus Rating		1200	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **HDRW**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	0.0	125% OF LOAD	0.0	KVA		(1)
Receptacles	1.6	NEC 220-14(I)	1.6	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	705.7	1.0 + 25% Largest	759.0	KVA		
Other	8.4	1.0	8.4	KVA		
Equipment Total	**715.7**		**769.0**	**KVA**		
Full Load Demand Amps		925.4	Amps			
Amps X 1.25		1156.7	Amps			
Feeder Size		12003	Amps			
Circuit Breaker Size		1200	Amps			
Equipment Bus Rating		1200	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **PANEL ULD1E**
Equipment Voltage: 120/208V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	0.0	100% OF LOAD	0.0	KVA		(1)
Receptacles	14.4	NEC 220-14(I)	12.2	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	0	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	0.0	1.0 + 25% Largest	0.0	KVA		
Data Estimate	153.2	1.0	153.2	KVA		
Equipment Total	**167.6**		**165.4**	**KVA**		
or Transformer Size			**300.0**	KVA		
Full Load Demand Amps		833.3	Amps			
Amps X 1.25		1041.7	Amps			
Feeder Size		10004	Amps			
Circuit Breaker Size		1000	Amps			
Equipment Bus Rating		1000	Amps			

Note (1): 100% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **CHDRE**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	0.0	125% OF LOAD	0.0	KVA		(1)
Receptacles	0.0	NEC 220-14(I)	0.0	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	9	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	129.0	1.0 + 25% Largest	166.5	KVA		
Other	0.0	1.0	0.0	KVA		
Equipment Total	**129.0**		**166.5**	**KVA**		
Full Load Demand Amps		200.4	Amps			
Amps X 1.25		250.5	Amps			
Feeder Size		4003	Amps			
Circuit Breaker Size		400	Amps			
Equipment Bus Rating		400	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **SBDL1**
Equipment Voltage: 120/208V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	4.5	125% OF LOAD	5.6	KVA		(1)
Receptacles	68.3	NEC 220-14(I)	39.2	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	9	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	11.3	1.0 + 25% Largest	11.7	KVA		
Other	126.7	0.8	101.4	KVA		
Equipment Total	**210.8**		**157.8**	**KVA**		
Full Load Demand Amps		438.4	Amps			
Amps X 1.25		548.0	Amps			
Feeder Size		8004	Amps			
Circuit Breaker Size		800	Amps			
Equipment Bus Rating		800	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

ECHOJ — 05/18/15 — **EQUIPMENT CALCULATION SHEET**

Equipment Designation: **HDRE**
Equipment Voltage: 277/480V, 3Ø, 4W

Load Category	Connected Load	Code Allowed Demand Factor	Demand Load		Number of Pieces of Equipment	Notes
Lighting	0.0	125% OF LOAD	0.0	KVA		(1)
Receptacles	1.6	NEC 220-14(I)	1.6	KVA		(2)
Kitchen	0.0	NEC 220-56	0.0	KVA	0	(3)
Elevator	0.0	NEC 620-14	0.0	KVA	9	(4)
X-Ray	0.0	NEC 517.73(A)	0.0	KVA		(5)
Mechanical	178.0	1.0 + 25% Largest	215.5	KVA		
Other	8.4	1.0	8.4	KVA		
Equipment Total	**188.0**		**225.5**	**KVA**		
Full Load Demand Amps		271.4	Amps			
Amps X 1.25		339.2	Amps			
Feeder Size		4003	Amps			
Circuit Breaker Size		400	Amps			
Equipment Bus Rating		400	Amps			

Note (1): 125% of LOAD
Note (2): 1st 10KW @ 100%, Remainder @ 50%
Note (3): 1 or 2 pieces at 100%, 3 at 90%, 4 at 80%, 5 at 70% and 6 or more at 65%
Note (4): 1 piece at 100%, 2 at 95%, 3 at 90%, 4 at 85%, 5 at 82%, 6 at 79%, 7 at 77%, 8 at 75%, 9 at 73% and 10 or more at 72%
Note (5): 50% of Lrgst+25% of Next Lrgst+10% of Remainder

FENTRESS ARCHITECTS

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EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

STAMP
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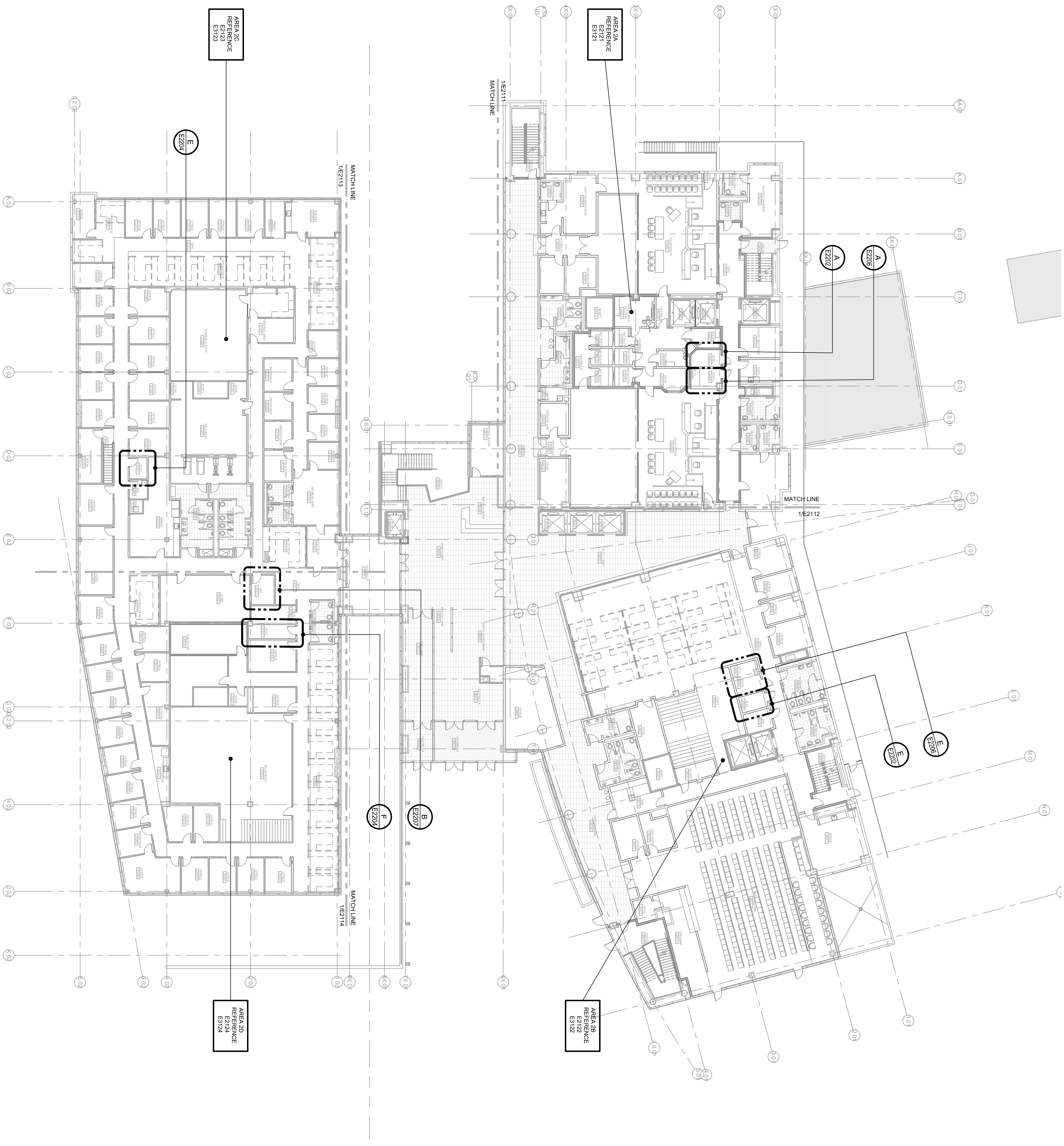
KRISTINA MARTIN
No. E15303
Exp. 03/31/17
ELECTRICAL
STATE OF CALIFORNIA

DRAWING TITLE
SCHEDULES - LOAD CALCS

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E0011

DP-4 RESP 1



1 E2020 OVERALL ELECTRICAL PLAN - LEVEL 2

SCALE: 1/16" = 1'-0"

0' 8' 16' 32'

KEY PLAN

EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
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REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/17 ELECTRICAL STATE OF CALIFORNIA

DRAWING TITLE
OVERALL ELECTRICAL PLAN - LEVEL 2

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2020

CONSULTANT

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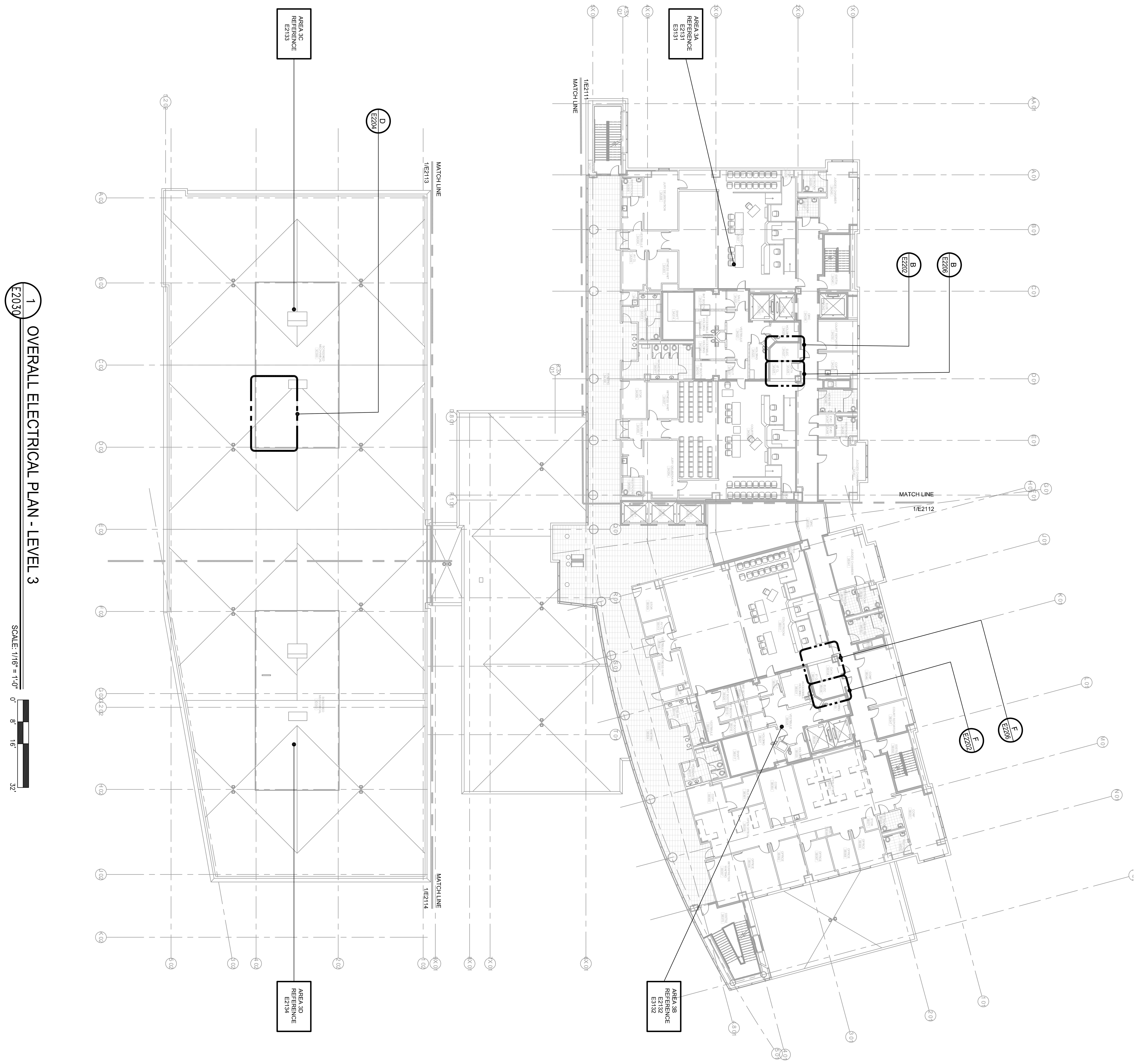

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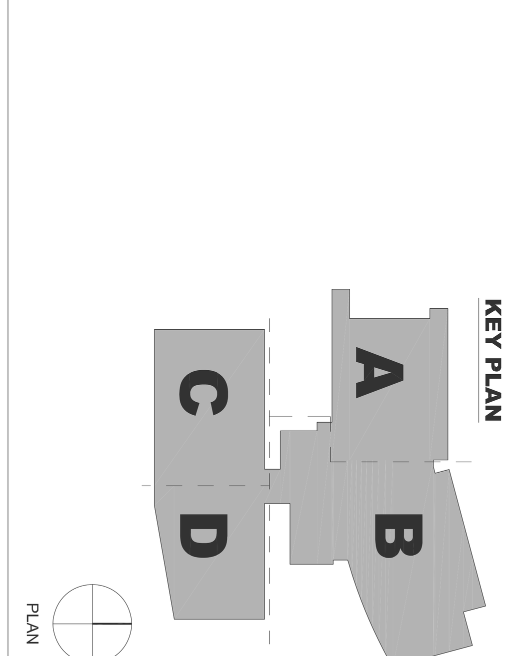

EAST COUNTY HALL OF JUSTICE

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NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
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5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

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KRISTINA MARTIN
No. E15303
Exp. 03/31/17
ELECTRICAL
STATE OF CALIFORNIA

DRAWING TITLE
OVERALL ELECTRICAL PLAN - LEVEL 3

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2030

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1 E2040 OVERALL ELECTRICAL PLAN - LEVEL 4

SCALE: 1/16" = 1'-0"

EAST COUNTY HALL OF JUSTICE

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NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

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REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/17 ELECTRICAL STATE OF CALIFORNIA

DRAWING TITLE
OVERALL ELECTRICAL PLAN - LEVEL 4
PROJECT #:2013014.001
OSFM: 01-01-11-0005
SHEET NUMBER
E2040

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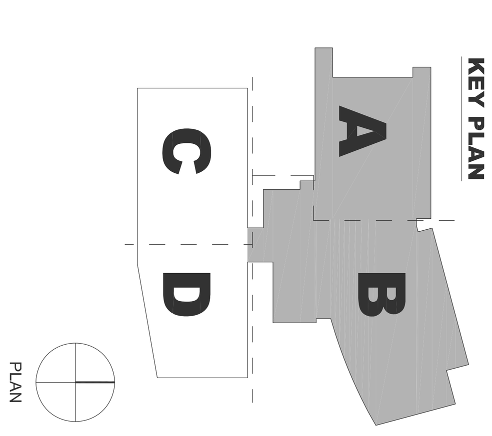
1
E2050

OVERALL ELECTRICAL PLAN - LEVEL 5

SCALE: 1/16" = 1'-0"

0' 8' 16' 32'

KEY PLAN



NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

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REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/17
ELECTRICAL
STATE OF CALIFORNIA

DRAWING TITLE
OVERALL ELECTRICAL PLAN - LEVEL 5

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2050

EAST COUNTY HALL OF JUSTICE

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ARCHITECTS

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Plan. Build. Manage.

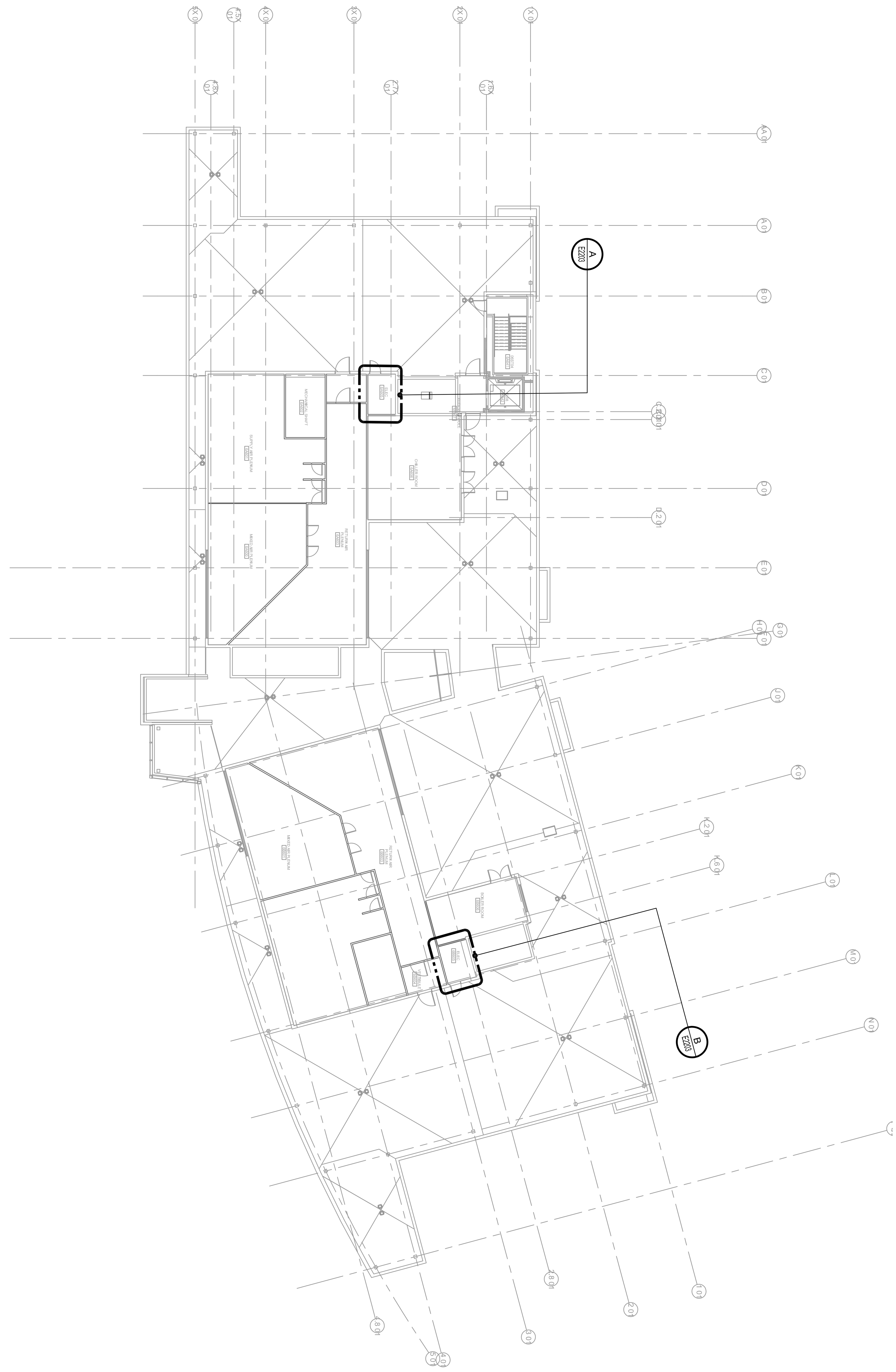
5/15/2015 9:37:35 AM
I:\14095_EAST COUNTY HALL OF JUSTICE - DUBLIN\01-DRAWINGS\ECHOJ-E2060 OVERALL FLOOR PLAN - LEVEL 6 _ Oce42x30amp_ECHOJ.ctb _ Grace Lui

Warning: It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item in this document is altered, the altering architect, if other than the architect of record, shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and the specific description of the alteration.

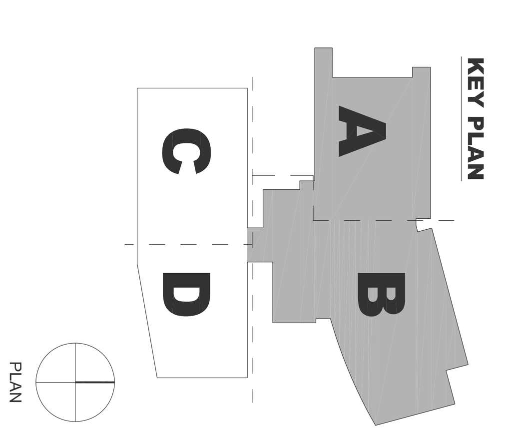
1 E2060 OVERALL ELECTRICAL PLAN - LEVEL 6

SCALE: 1/16" = 1'-0"

0' 8' 16' 32'



KEY PLAN



EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

NO.	ISSUED FOR	DATE
1	DP-3	10/22/2014
2	50% CD	12/02/2014
5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

STAMP

REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15303 Exp. 03/31/17 ELECTRICAL STATE OF CALIFORNIA

DRAWING TITLE
OVERALL ELECTRICAL PLAN - LEVEL 6

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2060

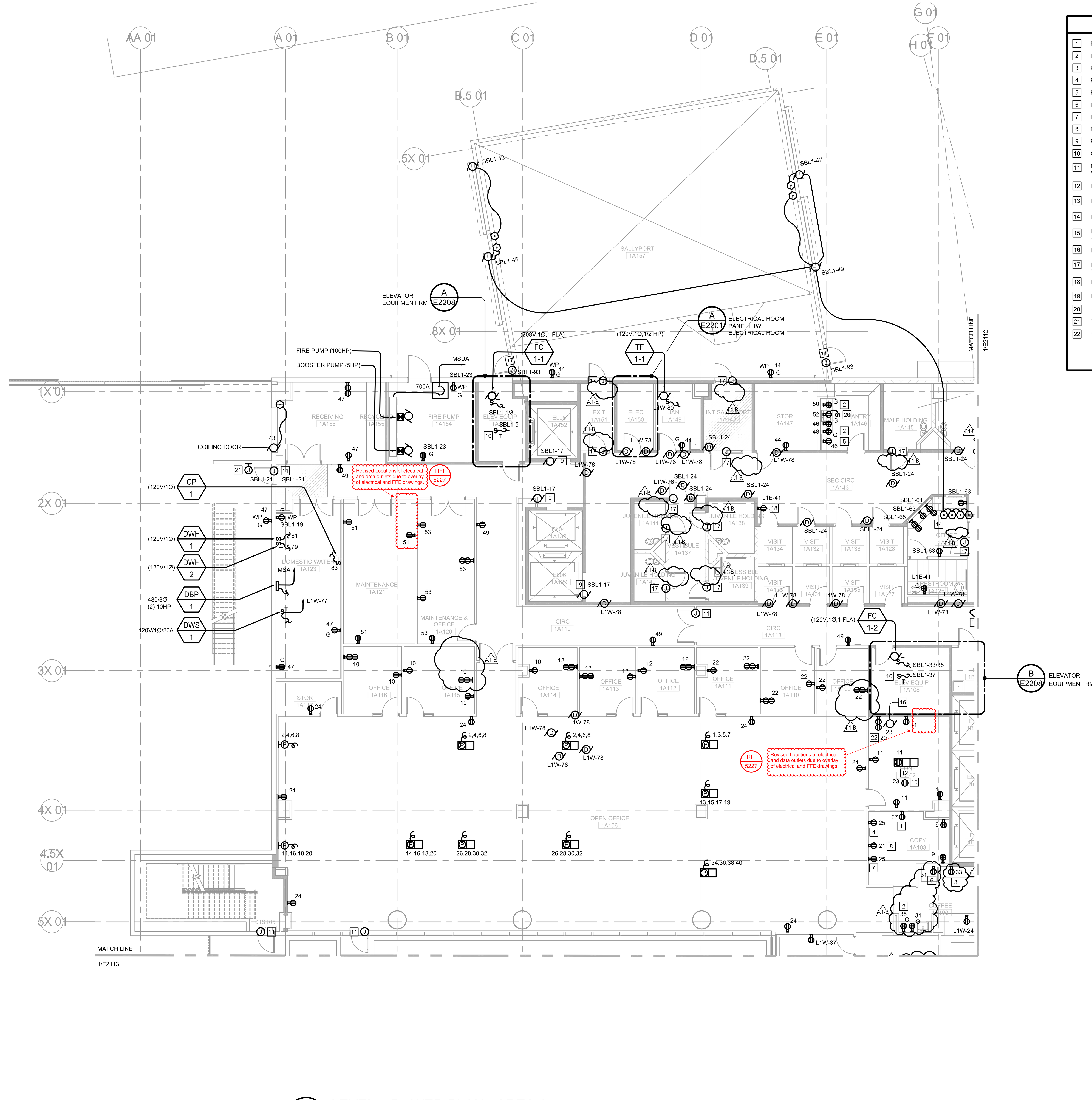
CONSULTANT
The Engineering Enterprise Consulting Engineers
1305 MARINA VILLAGE PKWY # 100
ALAMEDA, CA 94501-1122
(510) 769-7600
JOB #14095

Morrow-Meadows Corp.
ELECTRICAL CONTRACTORS AND ENGINEERS
1050 Bing Street
San Carlos, CA 94070
Telephone: (650) 634-0682
Fax: (650) 634-0683
www.MORROW-MEADOWS.com
License #: 230813-C10

FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

DP-4 RESP 1



1 / E2111 LEVEL 1 POWER PLAN - AREA A

SCALE: 1/8" = 1'-0"

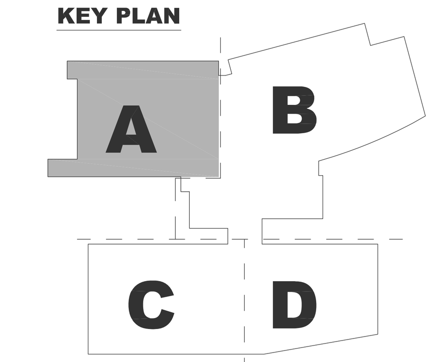
GENERAL SHEET NOTES

1. ALL RECEPTACLES ON THIS SHEET SHALL BE FED FROM PANEL L1W UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS FOR AV EQUIPMENT SHALL HAVE A DEDICATED NEUTRAL.
3. COORDINATE AV ROUGH-IN WITH AV DRAWINGS.

NUMBERED SHEET NOTES

1. PROVIDE POWER FOR COPIER.
2. PROVIDE POWER FOR COFFEE MAKER 120/1700W.
3. PROVIDE POWER FOR MICROWAVE OVEN 120V/13.6A/1500W.
4. PROVIDE POWER FOR SHREDDER.
5. PROVIDE POWER FOR REFRIGERATOR - FREESTANDING 120V/15A.
6. PROVIDE POWER FOR REFRIGERATOR - UNDERCOUNTER 115V/15A OR 20A.
7. PROVIDE POWER FOR WATER DISPENSER.
8. PROVIDE POWER FOR PLOTTER.
9. PROVIDE POWER TO SMOKE GUARD. COORDINATE INTERFACE REQUIREMENTS WITH FIRE ALARM.
10. CONDENSATE PUMP FOR FAN COIL, 120V.
11. DOOR REQUIRES ELECTRIC HARDWARE. COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE 120V CIRCUIT IF NECESSARY.
12. FLUSH FLOOR BOX FOR POWER AND DATA. WIREMOLD EVOLUTION SERIES, OR EQUAL, AT GRADE.
13. DEDICATED OUTLET FOR AV EQUIPMENT. PROVIDE DISCREET NEUTRAL AND GROUND.
14. PROVIDE REMOTE SALLY PORT ROLL DOOR CONTROL FROM SECURE OFFICE.
15. PROVIDE CEILING MOUNTED OUTLET FOR PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR.
16. PROVIDE CONNECTION TO CEILING MOUNTED MOTORIZED SCREEN.
17. DOOR REQUIRES DETENTION GRADE ELECTRIC HARDWARE. COORDINATE EXACT REQUIREMENTS WITH VENDOR AND DETENTION DRAWINGS.
18. PROVIDE DETENTION GRADE, LOCKABLE COVER.
19. MOUNT OUTLET JUST ABOVE CREDENZA
20. SINGLE PLEX RECEPTACLE FOR GARBAGE DISPOSAL WITH SWITCH ABOVE COUNTER.
21. WALL MOUNTED ACTUATOR FOR DOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
22. COORDINATE OUTLET WITH AV DRAWINGS.

KEY PLAN



FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

CONSULTANT

The Engineering Enterprise Consulting Engineers
1305 MARINA VILLAGE PKWY # 100 ALAMEDA, CA 94501-1122 (510) 769-7600
JOB #14095

Morrow-Meadows Corp.

EAST COUNTY HALL OF JUSTICE

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6	DP-4 RESP 1	05/21/2015
	DP-4 RESP 1 ADD B	02/04/2016

STAMP

DRAWING TITLE
LEVEL 1 POWER PLAN - AREA A

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2111

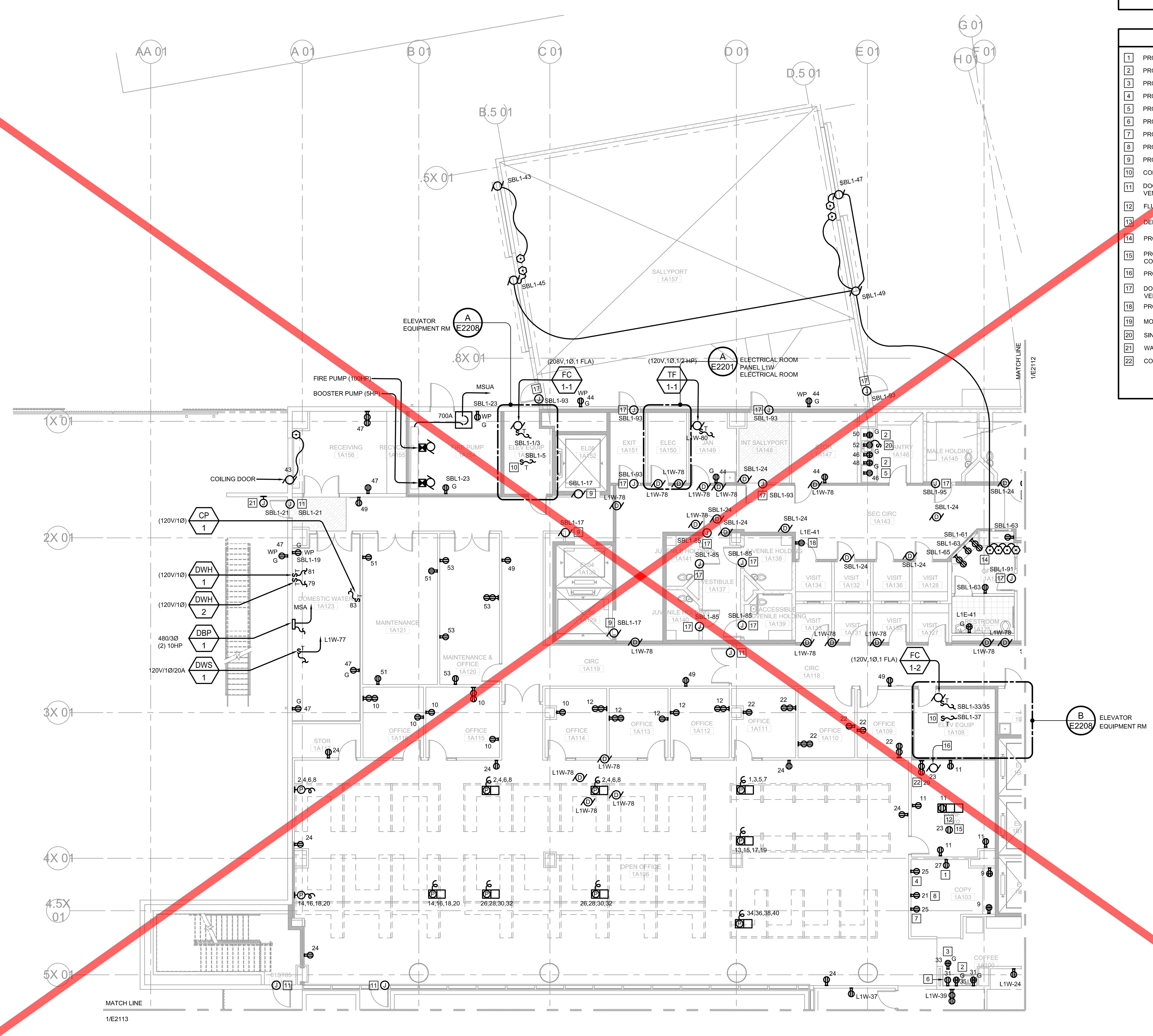
DP-4 RESP 1 ADD B

GENERAL SHEET NOTES

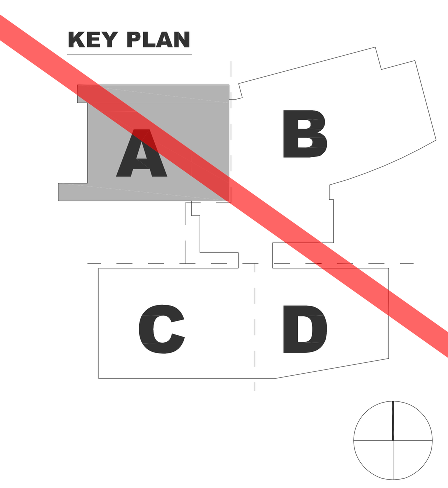
1. ALL RECEPTACLES ON THIS SHEET SHALL BE FED FROM PANEL L1W UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS FOR AV EQUIPMENT SHALL HAVE A DEDICATED NEUTRAL.
3. COORDINATE AV ROUGH-IN WITH AV DRAWINGS.

NUMBERED SHEET NOTES

1. PROVIDE POWER FOR COPIER.
2. PROVIDE POWER FOR COFFEE MAKER 120/1700W.
3. PROVIDE POWER FOR MICROWAVE OVEN 120V/13.6A/1500W.
4. PROVIDE POWER FOR SHREDDER.
5. PROVIDE POWER FOR REFRIGERATOR - FREESTANDING 120V/15A.
6. PROVIDE POWER FOR REFRIGERATOR - UNDERCOUNTER 115V/15A OR 20A.
7. PROVIDE POWER FOR WATER DISPENSER.
8. PROVIDE POWER FOR PLOTTER.
9. PROVIDE POWER TO SMOKE GUARD. COORDINATE INTERFACE REQUIREMENTS WITH FIRE ALARM.
10. CONDENSATE PUMP FOR FAN COIL. 120V.
11. DOOR REQUIRES ELECTRIC HARDWARE. COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE 120V CIRCUIT IF NECESSARY.
12. FLUSH FLOOR BOX FOR POWER AND DATA. WIREMOLD EVOLUTION SERIES, OR EQUAL, AT GRADE.
13. DEDICATED OUTLET FOR AV EQUIPMENT. PROVIDE DISCREET NEUTRAL AND GROUND.
14. PROVIDE REMOTE SALLY PORT ROLL DOOR CONTROL FROM SECURE OFFICE.
15. PROVIDE CEILING MOUNTED OUTLET FOR PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR.
16. PROVIDE CONNECTION TO CEILING MOUNTED MOTORIZED SCREEN.
17. DOOR REQUIRES DETENTION GRADE ELECTRIC HARDWARE. COORDINATE EXACT REQUIREMENTS WITH VENDOR AND DETENTION DRAWINGS.
18. PROVIDE DETENTION GRADE, LOCKABLE COVER.
19. MOUNT OUTLET JUST ABOVE CREDENZA
20. SINGLE PLEX RECEPTACLE FOR GARBAGE DISPOSAL WITH SWITCH ABOVE COUNTER.
21. WALL MOUNTED ACTUATOR FOR DOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
22. COORDINATE OUTLET WITH AV DRAWINGS.



1 LEVEL 1 POWER PLAN - AREA A
E2111
SCALE: 1/8" = 1'-0"



EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

FENTRESS ARCHITECTS
HENSEL PHELPS Plan. Build. Manage.

CONSULTANT
The Engineering Enterprise
JOB #14095

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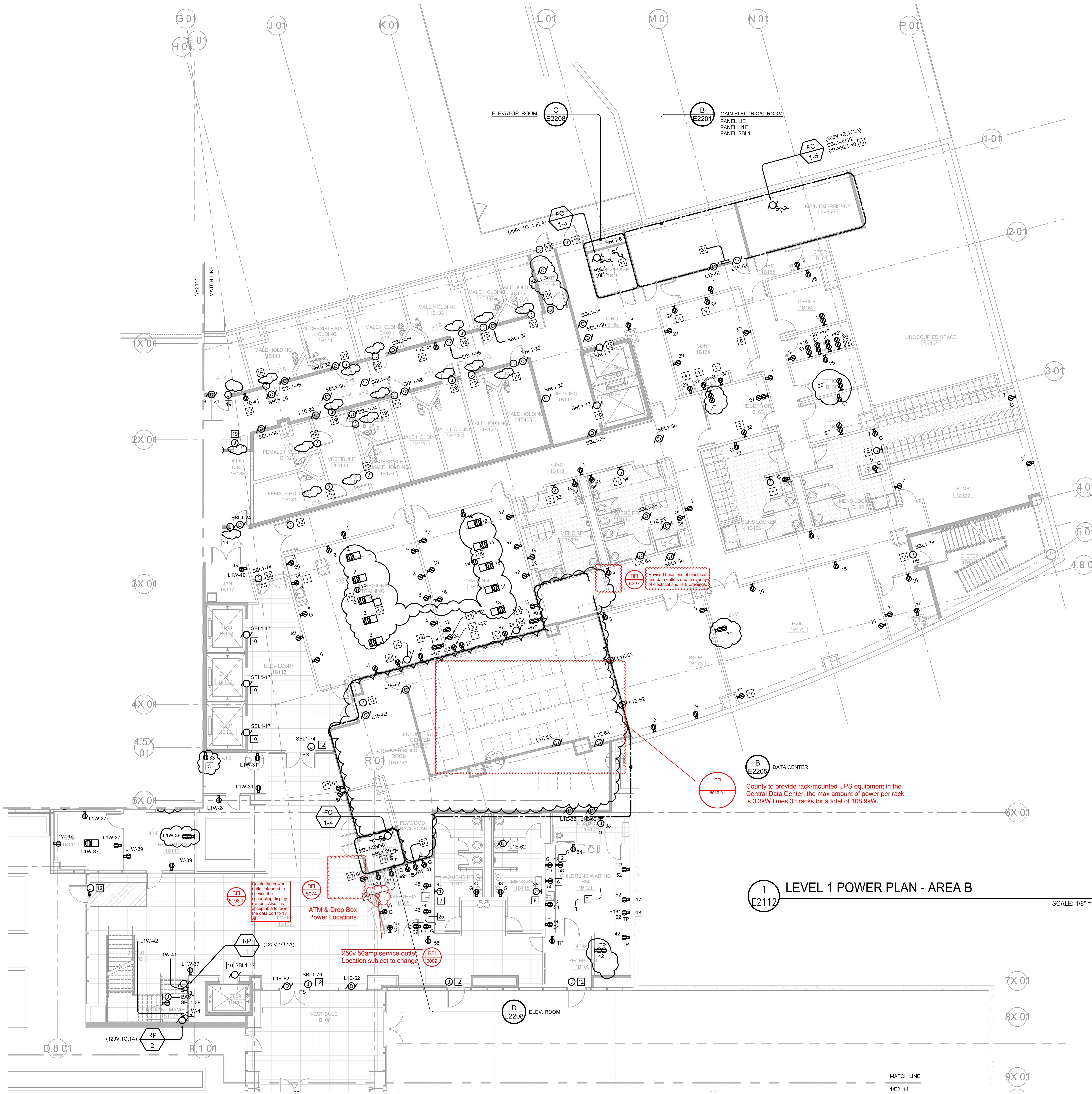
STAMP

DRAWING TITLE
LEVEL 1 POWER PLAN - AREA A

PROJECT #:20130014.001
OSHPD: 01-01-11-0005
SHEET NUMBER
E2111

DP-4 RESP 1



1
E2112
LEVEL 1 POWER PLAN - AREA B

SCALE: 1/8" = 1'-0"

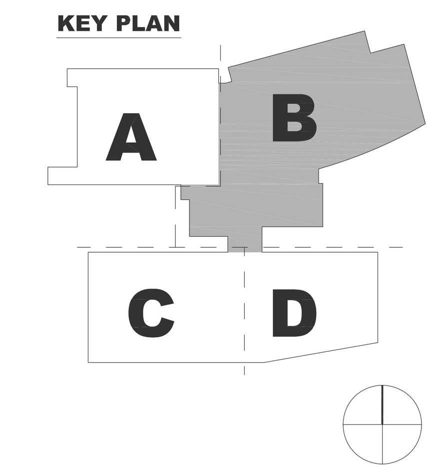
GENERAL SHEET NOTES

1. ALL RECEPTACLES ON THIS SHEET SHALL BE FED FROM PANEL L1E, UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS FOR AV EQUIPMENT SHALL HAVE A DEDICATED NEUTRAL.
3. COORDINATE AV ROUGH-IN WITH AV DRAWINGS..

NUMBERED SHEET NOTES

1. PROVIDE POWER FOR COFFEE MAKER 120/1700W.
2. PROVIDE POWER FOR MICROWAVE OVEN 120V/13.6A/1500W. REFERENCE 6/A8302.
3. PROVIDE POWER FOR PRINTER.
4. PROVIDE POWER FOR REFRIGERATOR - FREESTANDING 120V/15A.
5. PROVIDE POWER FOR REFRIGERATOR - FREESTANDING EVIDENCE.
6. PROVIDE POWER FOR REFRIGERATOR - UNDERCOUNTER 115V/15A OR 20A.
7. PROVIDE POWER FOR SCANNER
8. PROVIDE POWER FOR COPIER.
9. PROVIDE POWER TO PAPER TOWEL DISPENSER. COORDINATE EXACT LOCATION WITH ARCHITECT AND VENDOR INSTALLATION INSTRUCTIONS.
10. PROVIDE POWER TO SMOKE GUARD. COORDINATE INTERFACE REQUIREMENTS WITH FIRE ALARM.
11. CONDENSATE PUMP FOR FAN COIL. 120V.
12. DOOR REQUIRES ELECTRIC HARDWARE. COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE 120V CIRCUIT IF NECESSARY.
13. FLUSH FLOOR BOX FOR POWER, DATA & AV. COORDINATE BOX TYPE AND EXACT LOCATION WITH AV DRAWINGS. WIREMOLD EVOLUTION SERIES, OR EQUAL, AT GRADE.
14. DEDICATED OUTLET FOR AV EQUIPMENT. PROVIDE DISCREET NEUTRAL.
15. CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR.
16. PROVIDE CONNECTION TO CEILING MOUNTED MOTORIZED SCREEN.
17. PROVIDE CLOCK STYLE OUTLET AT HEIGHT INDICATED ON AV DRAWINGS..
18. COORDINATE OUTLET LOCATION WITH AV DRAWINGS.
19. DOOR REQUIRES DETENTION GRADE ELECTRIC HARDWARE. COORDINATE EXACT REQUIREMENTS WITH VENDOR AND DETENTION DRAWINGS.
20. MOUNT OUTLET JUST ABOVE CREDENZA.
21. OUTLETS THAT ARE ACCESSIBLE TO YOUTH SHALL BE TAMPER PROOF.
22. RADIO CHARGING OUTLETS.
23. PROVIDE DETENTION GRADE, LOCKABLE COVER.
24. GENERATOR REMOTE ANNUNCIATOR PANEL.
25. STACKED MICROWAVES ON SHELF UNIT. REFER TO 3/A8300.
26. SINGLE PLEX RECEPTACLE FOR GARBAGE DISPOSAL WITH SWITCH ABOVE COUNTER.
27. PROVIDE DEDICATED CIRCUIT FOR ATM MACHINE.

KEY PLAN



EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
County Building - 5149 Gleason Dr.
Dublin, CA 94568

FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

CONSULTANT
The Engineering Enterprise Consulting Engineers
JOB #14095
Morrow-Meadows Corp.

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6	DP-4 RESP 1	05/21/2015
	DP-4 RESP 1 ADD B	02/04/2016

STAMP

DRAWING TITLE
LEVEL 1 POWER PLAN - AREA B

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2112

DP-4 RESP 1 ADD B

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1 E2112 LEVEL 1 POWER PLAN - AREA B

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

1. ALL RECEPTACLES ON THIS SHEET SHALL BE FED FROM PANEL L1E, UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS FOR AV EQUIPMENT SHALL HAVE A DEDICATED NEUTRAL.
3. COORDINATE AV ROUGH-IN WITH AV DRAWINGS..

NUMBERED SHEET NOTES

1 PROVIDE POWER FOR COFFEE MAKER 120/1700W.
2 PROVIDE POWER FOR MICROWAVE OVEN 120V/13.6A/1500W. REFERENCE 6/A8302.
3 PROVIDE POWER FOR PRINTER.
4 PROVIDE POWER FOR REFRIGERATOR - FREESTANDING 120V/15A.
5 PROVIDE POWER FOR REFRIGERATOR - FREESTANDING EVIDENCE.
6 PROVIDE POWER FOR REFRIGERATOR - UNDERCOUNTER 115V/15A OR 20A.
7 PROVIDE POWER FOR SCANNER
8 PROVIDE POWER FOR COPIER.
9 PROVIDE POWER TO PAPER TOWEL DISPENSER. COORDINATE EXACT LOCATION WITH ARCHITECT AND VENDOR INSTALLATION INSTRUCTIONS.
10 PROVIDE POWER TO SMOKE GUARD. COORDINATE INTERFACE REQUIREMENTS WITH FIRE ALARM.
11 CONDENSATE PUMP FOR FAN COIL. 120V.
12 DOOR REQUIRES ELECTRIC HARDWARE. COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE 120V CIRCUIT IF NECESSARY.
13 FLUSH FLOOR BOX FOR POWER, DATA & AV. COORDINATE BOX TYPE AND EXACT LOCATION WITH AV DRAWINGS. WIREMOLD EVOLUTION SERIES, OR EQUAL, AT GRADE.
14 DEDICATED OUTLET FOR AV EQUIPMENT. PROVIDE DISCREET NEUTRAL.
15 CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR.
16 PROVIDE CONNECTION TO CEILING MOUNTED MOTORIZED SCREEN.
17 PROVIDE CLOCK STYLE OUTLET AT HEIGHT INDICATED ON AV DRAWINGS..
18 COORDINATE OUTLET LOCATION WITH AV DRAWINGS.
19 DOOR REQUIRES DETENTION GRADE ELECTRIC HARDWARE. COORDINATE EXACT REQUIREMENTS WITH VENDOR AND DETENTION DRAWINGS.
20 MOUNT OUTLET JUST ABOVE CREDENZA.
21 OUTLETS THAT ARE ACCESSIBLE TO YOUTH SHALL BE TAMPER PROOF.
22 RADIO CHARGING OUTLETS.
23 PROVIDE DETENTION GRADE, LOCKABLE COVER.
24 GENERATOR REMOTE ANNUNCIATOR PANEL.
25 STACKED MICROWAVES ON SHELF UNIT. REFER TO 3/A8300.
26 SINGLE PLEX RECEPTACLE FOR GARBAGE DISPOSAL WITH SWITCH ABOVE COUNTER.
27 PROVIDE DEDICATED CIRCUIT FOR ATM MACHINE.

KEY PLAN

A B C D

PLAN

FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

CONSULTANT

The Engineering Enterprise
JOB #14095

EAST COUNTY HALL OF JUSTICE

Courts Building - 5151 Gleason Dr.
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Dublin, CA 94568

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STAMP

REGISTERED PROFESSIONAL ENGINEER
KRISTINA MARTIN
No. E15303
Exp. 03/31/17
ELECTRICAL
STATE OF CALIFORNIA

DRAWING TITLE
LEVEL 1 POWER PLAN - AREA B

PROJECT #: 20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2112

DP-4 RESP 1

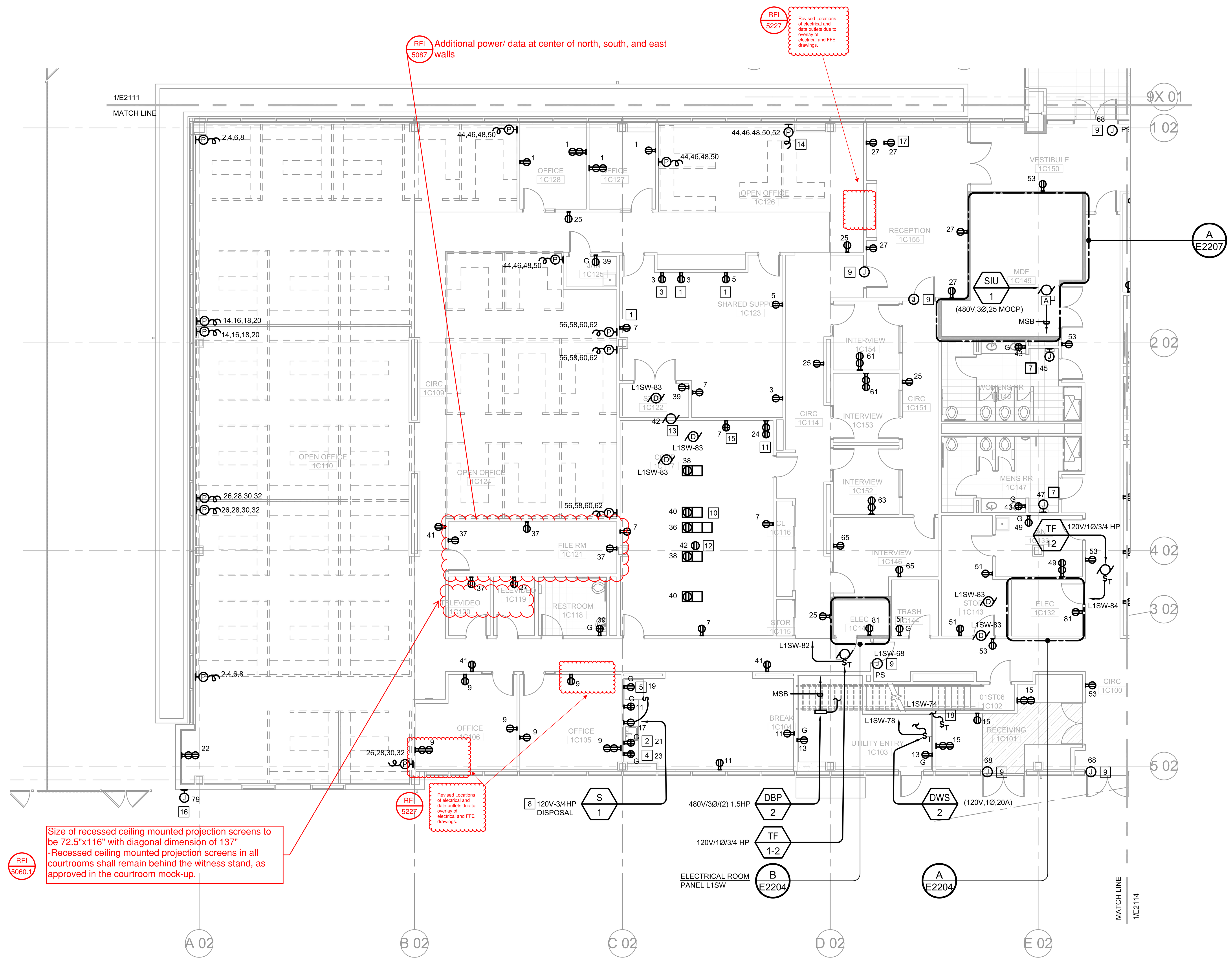
5/17/2015 4:00:37 PM
I:\14095_EAST COUNTY HALL OF JUSTICE - DUBLIN\01-DRAWINGS\ECHOJ-E2113 LEVEL 1 POWER PLAN - AREA C _ Oce42x30amp_ECHOJ.ctb _ Kristina Martin

GENERAL SHEET NOTES

1. ALL RECEPTACLES ON THIS SHEET SHALL BE FED FROM PANEL L1SW UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS FOR AV EQUIPMENT SHALL HAVE DEDICATED NEUTRALS.
3. COORDINATE AV ROUGH-IN WITH AV DRAWINGS..

NUMBERED SHEET NOTES

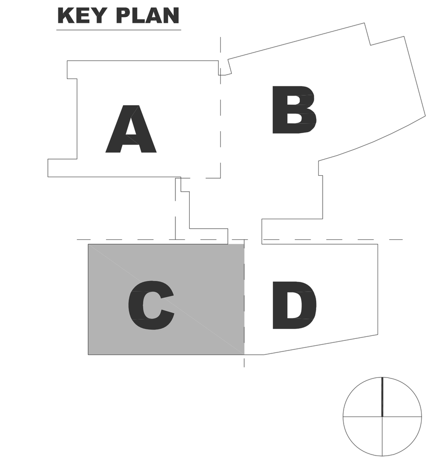
1. PROVIDE POWER FOR COPIER.
2. PROVIDE POWER FOR COFFEE MAKER 120/14.2/1700W.
3. PROVIDE POWER FOR FAX MACHINE.
4. PROVIDE POWER FOR MICROWAVE OVEN 120V/13.6A/1500W.
5. PROVIDE POWER FOR REFRIGERATOR - FREESTANDING 120V/15A.
6. PROVIDE POWER FOR REFRIGERATOR - UNDERCOUNTER 115V/15A OR 20A.
7. PROVIDE POWER FOR ELECTRIC HAND DRYER 120V/1400W.
8. PROVIDE SWITCH FOR DISPOSAL, SINGLE PLEX BELOW COUNTER.
9. DOOR REQUIRES ELECTRIC HARDWARE. COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE 120V CIRCUIT FROM L1SW IF NECESSARY.
10. FLUSH FLOOR BOX FOR POWER, DATA & AV. WIREMOLD EVOLUTION SERIES, OR EQUAL, AT GRADE.
11. DEDICATED OUTLET FOR AV EQUIPMENT. PROVIDE DISCREET NEUTRAL.
12. CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION WITH AV CONTRACTOR.
13. PROVIDE CONNECTION TO CEILING MOUNTED MOTORIZED SCREEN.
14. POWER FOR PRINTERS.
15. MOUNT OUTLETS ABOVE CREDENZA.
16. FIRE ALARM BELL MOUNTED 8'-10" AFF. EXACT LOCATION TBD BY FIRE MARSHAL.
17. PROVIDE POWER FOR TV AT 72" AFF.
18. PROVIDE POWER FOR IRRIGATION CONTROLLER



1 E2113 LEVEL 1 POWER PLAN - AREA C

SCALE: 1/8" = 1'-0" 0' 4' 8' 16'

KEY PLAN



EAST COUNTY HALL OF JUSTICE

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County Building - 5149 Gleason Dr.
Dublin, CA 94568

FENTRESS ARCHITECTS

HENSEL PHELPS Plan. Build. Manage.

CONSULTANT

The Engineering Enterprise Consulting Engineers
1305 MARINA VILLAGE PKWY # 100 ALAMEDA, CA 94501-1122 (510) 769-7600
JOB #14095

Morrow-Meadows Corp.

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5	DP-4	02/10/2015
6	DP-4 RESP 1	05/21/2015

STAMP

REGISTERED PROFESSIONAL ENGINEER KRISTINA MARTIN No. E15930 Exp. 03/31/17 ELECTRICAL STATE OF CALIFORNIA

DRAWING TITLE
LEVEL 1 POWER PLAN - AREA C

PROJECT #:20130014.001
OSFM: 01-01-11-0005

SHEET NUMBER
E2113

DP-4 RESP 1