



ARCHITECTURE PLANNING INTERIOR DESIGN

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ALBA BANK
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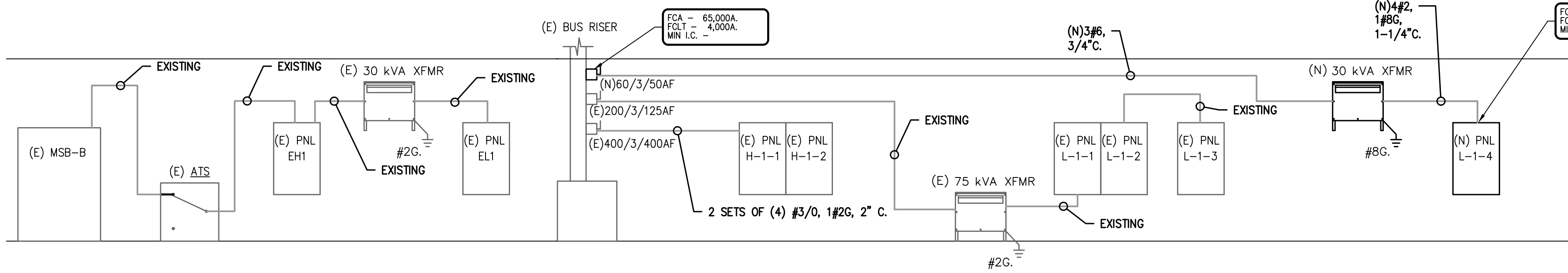
E/P/E PROJECT NUMBER: 26098.00

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

- CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THWN INSULATION IN EMT (4" C. OR LESS) OR RIGID CONDUIT (> 4" C.). PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
- SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FCLT' INDICATES APPARENT LET-THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
- ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
- PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
- REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
- CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
- SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
- FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
- ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT-GROUNDING CONDUCTOR PER NEC.
- ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. COH ELECTRICAL CODE 504.1.1.

VOLTAGE DROP CALCULATION:

VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED. NO CIRCUIT HAS A VOLTAGE DROP HIGHER THAN 3%.



01 PARTIAL ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

ELECTRICAL LOAD ANALYSIS					
PROJECT NAME:		ALBA BANK			
PROJECT NUMBER:		26098.00			
SERVICE VOLTAGE:		277/480V, 3 PHASE, 4 WIRE, WYE			
SERVICE RATING:		100 AMPS			
GROSS AREA:		4,383 SQUARE FEET			
LOAD DESCRIPTION	CODE LOAD (kVA)	CONNECTED LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD (kVA)	REMARKS
LIGHTS (1.3 VA/FT2):	5.7	0.0	125%	7.1	NEC 220.42, 43, 44, 45
SIGN LIGHTS:		0.0	125%	0.0	NEC 220.14.F
SITE LIGHTS:		0.0	125%	0.0	NEC 220.42, 43, 44, 45
RECEPTACLES:	4.4	9.5	10kVA+50%	9.5	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:		14.0	100%	14.0	NEC 220.14.A
WATER HEATERS:		4.5	100%	4.5	NEC 220.14.A
HVAC:		0.0	100%	0.0	NEC 220.14.C, 220.50
ELECTRIC HEAT:		0.0	100%	0.0	NEC 220.51
LARGEST MOTOR:		0.0	125%	0.0	NEC 430.22
TOTAL DESIGN LOAD:		35		kVA	
480V, 3 PHASE:		42		AMPS	

NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

PROJECT NAME:		ALBA BANK											
PROJECT NUMBER:		26098.00											
PANEL:		H-1											
VOLTAGE:		277/480V, 3PH, 4W BUS: 400 AMP MAINS: M.L.O. ACCESSORIES: FEED THRU LUGS											
CODES:		0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED											
CODE	LOAD	CIRCUIT DESCRIPTION	BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE			
0	3400	TENANT LIGHTING	*	20/1	1	A	2	20/1	TENANT LIGHTING	3400 0			
0	3400	TENANT LIGHTING	*	20/1	3	B	4	20/1	TENANT LIGHTING	3400 0			
0	3400	TENANT LIGHTING	*	20/1	5	C	6	20/1	TENANT LIGHTING	3400 0			
0	3400	TENANT LIGHTING	*	20/1	7	A	8	20/3	AHU	1850 3			
0	3400	TENANT LIGHTING	*	20/1	9	B	10	---	---	1850 3			
0	3400	TENANT LIGHTING	*	20/1	11	C	12	---	---	1850 3			
0	3400	TENANT LIGHTING	*	20/1	13	A	14	20/1	TENANT LIGHTING	1160 0			
0	3400	TENANT LIGHTING	*	20/1	15	B	16	20/1	TENANT LIGHTING	1350 0			
0	1890	LIGHTING LOBBY	*	20/1	17	C	18	20/1	EXISTING	1254 0			
0	1820	LIGHTING COVE	*	20/1	19	A	20	20/1	EXISTING	1160 0			
0	875	LIGHTING CORE	*	20/1	21	B	22	20/1	EXISTING	1250 0			
4	3000	HHW110	*	20/1	23	C	24	20/1	EXISTING	950 0			
0	980	CENTER LIGHTS	*	20/1	25	A	26	60/3	XFMR	29281 7			
4	4500	EWVH-1	*	20/1	27	B	28	---	---	29281 7			
0	650	EXTERIOR LIGHTING	*	20/1	29	C	30	---	---	29281 7			
3	11080	AHU-1	*	80/3	31	A	32	30/3	GRAC UNIT IDF	3286 3			
3	11080	---	*	---	33	B	34	---	---	3286 3			
3	11080	---	*	---	35	C	36	---	---	3286 3			
3	286	VAV-1-1	*	20/3	37	A	38	20/3	VAV-1.11	3286 3			
3	286	---	*	---	39	B	40	---	---	3286 3			
3	286	---	*	---	41	C	42	---	---	3286 3			
	LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE	PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP		
	18720	0	0	19788	0	A	A	67.8	LIGHTS @ 125%	43.2	156		
	17075	0	0	19788	4500	B	B	70.6	EQUIP. @ 100%	45.6	165		
	18230	0	0	16502	3000	C	C	67.0	LG. MOTOR @125%	42.3	153		
	54025	0	0	56078	7500	TOTAL	F.T.L.	TOTAL	205.4	RECEPS @ 10kW+50%	131.1	158	
SUB-FEED PANELS:													
PANEL NAME						S.F. KVA		LOAD FACTORS		DES. KVA		DES. AMP	
PANEL H1 S.2						131.7		SUB FEED @ 100%		131.7		159	

- * EXISTING CIRCUIT BREAKER - ESTIMATED LOAD
- ** EXISTING SPARE CIRCUIT BREAKER
- *** EXISTING BREAKER SPACE
- **** REPLACE EXISTING BREAKER AS SHOWN

PROJECT NAME:		ALBA BANK														
PROJECT NUMBER:		26098.00														
PANEL:		H-1-2														
VOLTAGE:		277/480V, 3PH, 4W		BUS: 225 AMP		MAINS: M.L.O.		ACCESSORIES:		EXISTING PANEL						
		NEMA: X		S.C.C.R:		xxKA/C										
CODES:		0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED														
CODE	LOAD	CIRCUIT DESCRIPTION						BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE	
3	2953	VAV 1 2						*	20/3	1	A	2	20/3	VAV 1 12	*	2953 3
3	2953	---						*	---	3	B	4	---	---	*	2953 3
3	2953	---						*	---	5	C	6	---	---	*	2953 3
3	2953	VAV 1 3						*	20/3	7	A	8	30/3	VAV 1 13	*	3758 3
3	2953	---						*	---	9	B	10	---	---	*	3758 3
3	2953	---						*	---	11	C	12	---	---	*	3758 3
3	2953	VAV 1 4						*	20/3	13	A	14	15/3	VAV 1 14	*	2284 3
3	2953	---						*	---	15	B	16	---	---	*	2284 3
3	2953	---						*	---	17	C	18	---	---	*	2284 3
3	2953	VAV 1 6						*	20/3	19	A	20	20/3	VAV 1 15	*	2953 3
3	2953	---						*	---	21	B	22	---	---	*	2953 3
3	2953	---						*	---	23	C	24	---	---	*	2953 3
3	3758	VAV 1 7						*	30/3	25	A	26	20/3	VAV 1 16	*	2953 3
3	3758	---						*	---	27	B	28	---	---	*	2953 3
3	3758	---						*	---	29	C	30	---	---	*	2953 3
3	2953	VAV 1 8						*	20/3	31	A	32	20/3	VAV 1 17	*	2953 3
3	2953	---						*	---	33	B	34	---	---	*	2953 3
3	2953	---						*	---	35	C	36	---	---	*	2953 3
3	3758	VAV 1 10						*	30/3	37	A	38	30/3	VAV 1 15	*	3758 3
3	3758	---						*	---	39	B	40	---	---	*	3758 3
3	3758	---						*	---	41	C	42	---	---	*	3758 3
		LIGHTS	RECEP	EQUIP.	MOTORS	EL. HEAT	PHASE			PHASE	CONN.KVA	LOAD FACTORS			DES. KVA	DES. AMP
		0	0	0	43893	0	A			A	43.9	LIGHTS @ 125%			43.9	158
		0	0	0	43893	0	B			B	43.9	EQUIP. @ 100%			43.9	158
		0	0	0	43893	0	C			C	43.9	LG. MOTOR @125%			43.9	158
		0	0	0	131679	0	TOTAL			TOTAL	131.7	RECEPS @ 10kW+50%			131.7	158
* EXISTING CIRCUIT BREAKER - ESTIMATED LOAD																
** EXISTING SPARE CIRCUIT BREAKER																
*** EXISTING BREAKER SPACE																
**** REPLACE EXISTING BREAKER AS SHOWN																

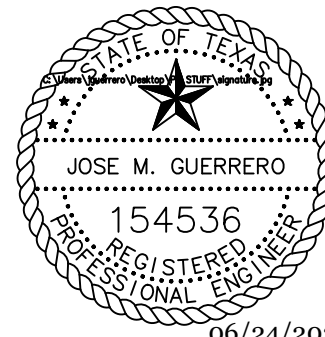
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DESIGN TEAM
PM: JG
MECHANICAL: CC
PLUMBING: CC
ELECTRICAL: JG
CHECKED-BY: JG

DRAWING TITLE
ELECTRICAL SCHEDULES

SHEET NO.

E4.01



06/24/2026
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