

REVISIONS	
No.	

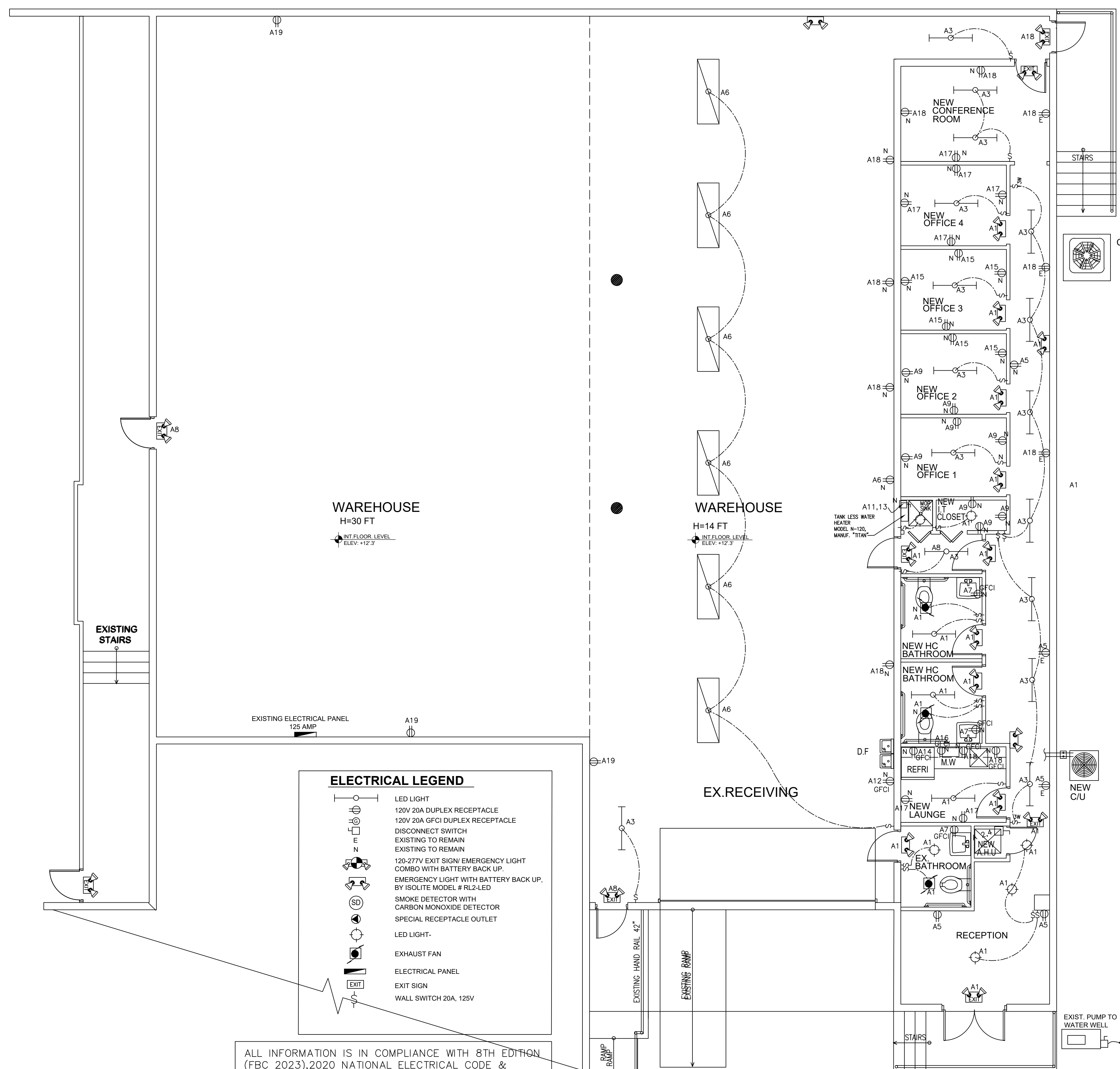
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Project Information:
INTERIOR RENOVATIONS FOR EXISTING WAREHOUSE
 OWNER INFORMATION:
VALPART ENTERPRISES LLC
 PROJECT ADDRESS:
 10200 NW 25TH ST UNIT 113
 DORAL, FL 33172

ROSARIO MONTERO
 PROFESSIONAL ENGINEER, P.E.
 FL REGISTRATION No. 78464
 9581 FONTAINEBLUE BLVD
 MIAMI, FLORIDA 33172
 PHONE: (786) 294-8305

DATE: 07.22.2024
 DRAWN BY: R.G.
 CHECKED BY: R.M.
 SCALE: AS SHOWN

E-1
 SHEET 7 OF 11



ELECTRICAL LEGEND	
	LED LIGHT
	120V 20A DUPLEX RECEPTACLE
	120V 20A GFCI DUPLEX RECEPTACLE
	DISCONNECT SWITCH
	EXISTING TO REMAIN
	120-277V EXIT SIGN/ EMERGENCY LIGHT COMBO WITH BATTERY BACK UP.
	EMERGENCY LIGHT WITH BATTERY BACK UP, BY ISOLITE MODEL # RL2-LED
	SMOKE DETECTOR WITH CARBON MONOXIDE DETECTOR
	SPECIAL RECEPTACLE OUTLET
	LED LIGHT
	EXHAUST FAN
	ELECTRICAL PANEL
	EXIT SIGN
	WALL SWITCH 20A, 125V

ALL INFORMATION IS IN COMPLIANCE WITH 8TH EDITION (FBC 2023), 2020 NATIONAL ELECTRICAL CODE & FLORIDA FIRE PREVENTION 8TH EDITION-CODE 2023.

ELECTRICAL PLAN
 SCALE: 3/16"=1'-0"

ELECTRICAL PANEL "A" OFFICE													
WATTS	DESCRIPTION	VOLT	WIRE	BRK	CKT No	A	B	CKT No	BRK	WIRE	VOLT	DESCRIPTION	WATTS
*	GEN. LIGHT & RECEP.	120	#12	20	1	1	2	2/60	#6	240	AHU-1	16000	
*	GEN. LIGHT & RECEP.	120	#12	20	3	4	6	20	#12	120	GEN. LIGHT & RECEP.	*	
*	GEN. LIGHT & RECEP.	120	#12	20	5	8	20	#12	120	GEN. LIGHT & RECEP.	*		
*	BATH GFCI	120	#12	20	7	8	20	#12	120	GEN. LIGHT & RECEP.	*		
*	GEN. LIGHT & RECEP.	120	#12	20	9	10	20	#12	120	WATER PUMP	*		
*	WATER HEATER	240	2#6	2/60	11	12	20	#12	120	WATER FOUNTAIN	1500		
12000					13	14	20	#12	120	REFRIGERATOR	1500		
*	GEN. LIGHT & RECEP.	120	#12	20	15	16	20	#12	120	MICROWAVE	1500		
*	GEN. LIGHT & RECEP.	120	#12	20	17	18	20	#12	120	GEN. LIGHT & RECEP.	*		
*	GEN. LIGHT & RECEP.	120	#12	20	19	20	2/30	#10	240	CU-1	5300		
	SPACE				21	22							
	SPACE				23	24							
	SPACE				25	26							
	SPACE				27	28							
	SPACE				29	30							

DEMAND:
 68,800 WATTS/830 VOLTS = 83 AMPS

SERVICE SIZE IS 125 AMPS

ELECTRICAL NOTES:

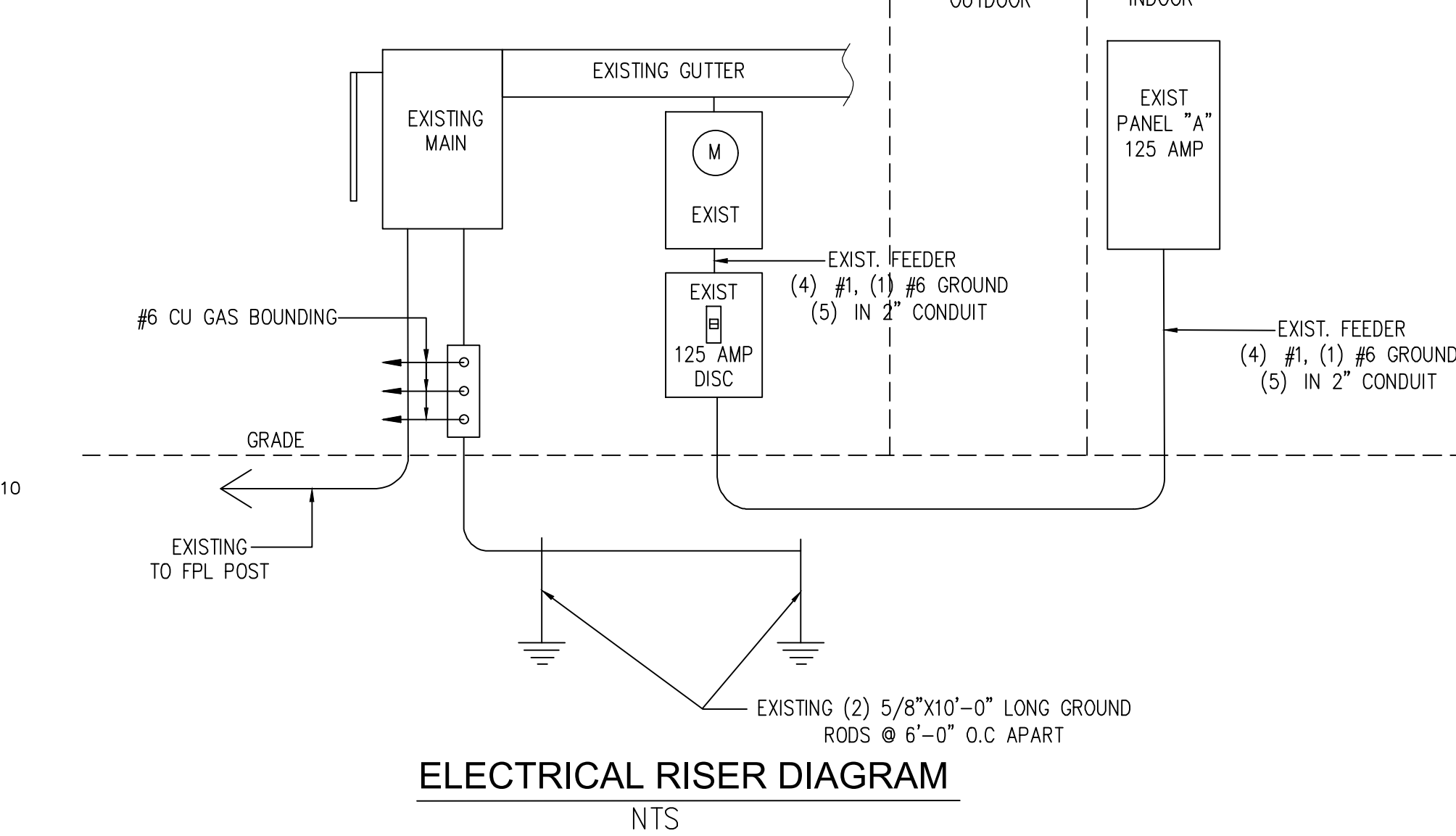
- ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2017 AND FBC 2020 7th EDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING EXISTING FIELD CONDITIONS BY VISITING THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER, PRIOR TO COMMENCING/ BIDDING WORK.
- THE CONTRACTOR SHALL SATISFACTORILY REPAIR/ REPLACE EQUIPMENT STRUCTURE DAMAGED OR PART OF AS A RESULT OF HIS WORK SURFACES AND FINISHED AREAS SHALL BE RESTORED TO MATCH ADJACENT AREAS.
- APPROVAL SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CUTTING OR DRILLING ANY STRUCTURAL SUPPORT MEMBER.
- ALL DEVICES BOXES SHALL BE INSTALLED FLUSH AND CONDUITS RUN CONCEALED IN FINISHED AREA EXCEPT AS SPECIFICALLY SHOWN, NOTED OTHERWISE OR APPROVED BY ARCHITECT.
- INSTALL POWER AND CONTROL WIRING & REQUIRED CONTROL COMPONENTS FOR AIR CONDITIONING SYSTEMS AS SHOWN/ NOTED ON THESE DRAWINGS AND PER OTHER APPLICABLE DRAWINGS/ INSTRUCTIONS. SEE AIR CONDITIONING DRAWINGS.
- ALL MATERIALS REMOVED SHALL BE DISPOSED OF AS DIRECTED BY OWNER. IS APPROVED WHERE ALLOWED BY CODE.
- MINIMUM WIRE SIZE SHALL BE #12 THHN/ THWN UNLESS OTHERWISE NOTED ON PLANS, CONDUCTORS #6 AND LARGER SHALL BE THW.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL CONDUCTOR SHALL BE RUN IN CONDUIT (METALLIC TYPE), MC CABLE IS APPROVED WHERE ALLOWED BY CODE.
- ALL MATERIALS SHALL BE U.L. APPROVED.
- ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED.
- CONTRACTOR SHALL SEAL ALL PENETRATIONS THRU A FIRE RATED PARTITIONS WITH A UL LISTED FIRE STOPPING METHOD.
- ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRINGS.
- FUSES SHALL BE DUAL ELEMENT TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER TRADES IN ORDER TO FURNISH AND INSTALL ALL CONTROL WIRING AND RACEWAYS AS SHOWN ON THE AIR CONDITIONING DRAWINGS OR SPECIFICATIONS. IF AIR CONDITIONING DRAWINGS REFER TO MANUFACTURER'S WIRING DIAGRAMS, THE CONTRACTOR SHALL VERIFY WITH SAID MANUFACTURER ALL REQUIREMENTS AND INCLUDE ALL RELATED WORK IN HIS CONTRACTOR.
- EXACT POINT AND METHOD OF CONNECTIONS SHALL BE DETERMINED IN FIELD. RISERS ARE DIAGRAMMATIC ONLY. THEY DO NOT SHOW EVERY BEND REQUIRED FOR THE INSTALLATION.
- THIS DRAWING IS A GUIDE FOR THE INSTALLATION OF ELECTRICAL SYSTEMS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
- ALL CABLES SHALL BE RUN WITHOUT SPICES EXCEPT OTHERWISE INDICATED.
- ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES.
- DISCONNECTING MEANS IS REQUIRED FOR APPLIANCES BY NEC 422.30.
- WEATHERPROOF COVERS MUST BE PROVIDED FOR RECEPTACLE OUTLETS IN DAMP OR WET LOCATIONS NEC 406.8
- RECEPTACLE OUTLETS INSTALLED IN WET LOCATIONS REQUIRE "IN-USE" TYPE COVERS. THE COVERS MUST BE LISTED AND MUST BE IDENTIFIED AS EXTRA DUTY BE NEC 406.9(B)(1)
- WEATHERPROOF COVERS ARE REQUIRED FOR SWITCHES IN DAMP OR WET LOCATIONS BY NEC 404.4.
- WEATHER RESISTANT RECEPTACLES MUST BE PROVIDED FOR REPLACEMENT RECEPTACLES IN ANY AREAS REQUIRING LISTED WEATHER RESISTANT RECEPTACLES NEC 406.4(D)(6)
- PROVIDE A MINIMUM OF 1 FOOT CANDLE ILLUMINATION AT THE PATH OF EGRESS.

PANEL "A" LOAD CALCULATION

GENERAL LIGHTING LOAD	KW
6,825 SQ-FT @ 3 WATTS PER SQ-FT	
AS PER NEC TABLE 220-12	20.5
RECEPTACLE LOAD	
(39) RECEPTACLES @ 180 WATTS EACH	
AS PER NEC TABLE 220-14(1)	7.0
REFRIGERATOR EQUIPMENT @ 100%	1.5
MICROWAVE EQUIPMENT @ 100%	1.5
WATER FOUNTAIN EQUIPMENT @ 100%	1.5
WATER HEATER @ 100%	12.0
CONTINUOUS LOAD @ 25% (GEN LTS + BUILDING SIGN)	5.1
25% OF LARGEST MOTOR	1.5
BUILDING SIGN	1.2
FORK LIFT CHARGER	1.0
RTU	16.0
TOTAL WITHOUT DEMAND	68.8
68,800 X 100% X 1000 = 82.89 AMPS EXISTING PANEL 125 AMP	
830 (480V 3-PH)	

NOTES:

- WORKING SPACE MUST BE MAINTAINED AROUND PANELS AND ELECTRICAL EQUIPMENT TO COMPLY WITH NEC 110.26.
- A GROUNDED CONDUCTOR(NEUTRAL) MUST BE PROVIDED AT LIGHTING SWITCH OUTLET UNLESS THE WIRING IS IN A RACEWAY. NEC 404.3(C)
- PROVIDE REQUIRED SIGNAGE WITH WARNING OF ARC FLASH HAZARDS AS PER NEC 110.16
- SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. PLEASE PROVIDE THAT INFORMATION ON THE PLAN ALONG WITH THIS NOTE. NEC 110.24(A) 45-INTERIOR LIGHTING IN BUILDINGS SHALL BE CONTROLLED WITH AN AUTOMATIC CONTROL DEVICE TO SHUT OFF BUILDING LIGHTING IN ALL SPACES AS PER FBC C405.2.2, ENERGY CODE.



ELECTRICAL RISER DIAGRAM
 NTS