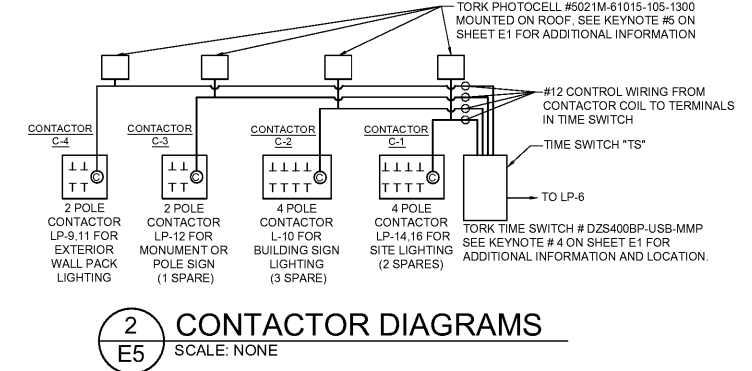
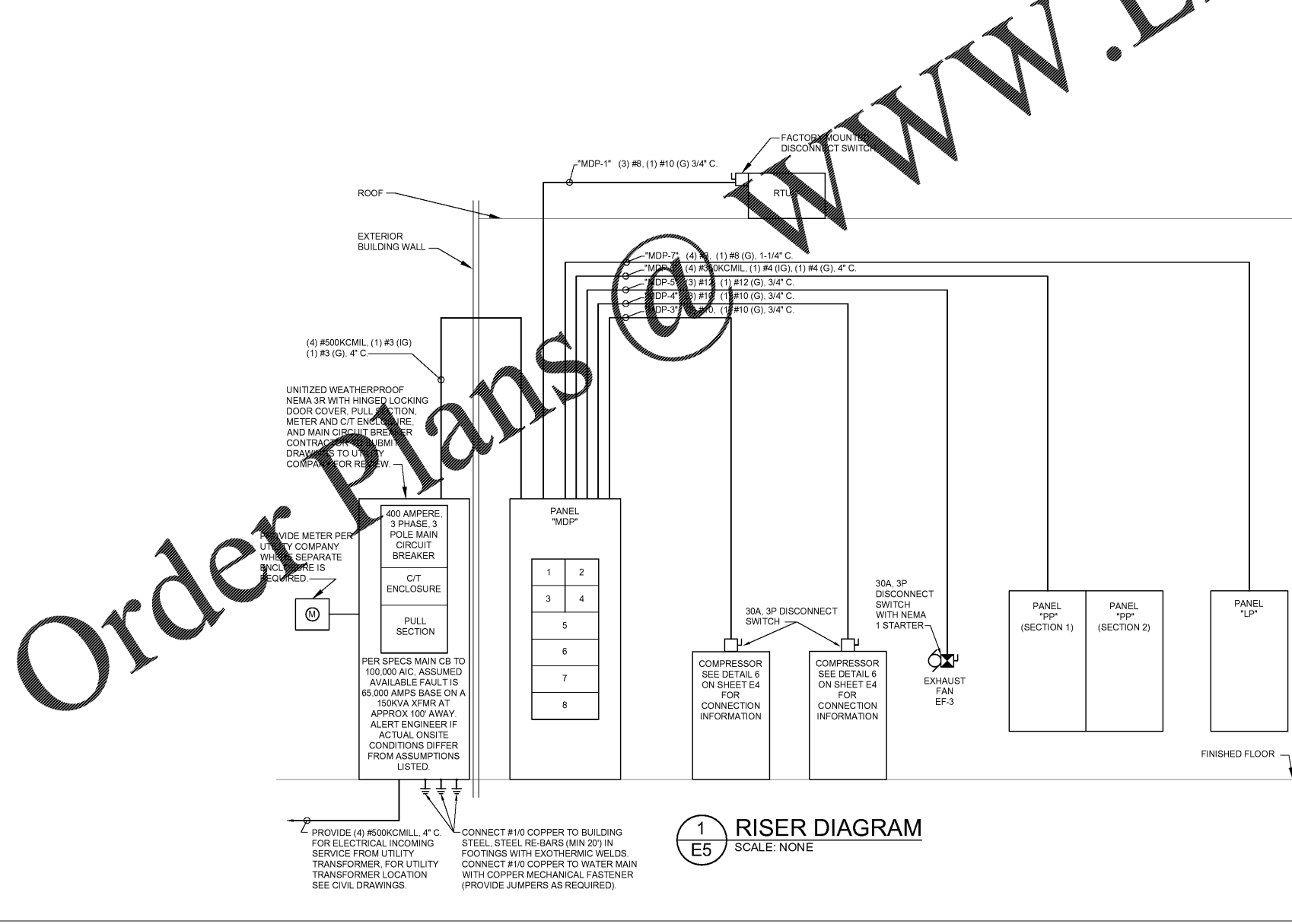


COMMERCIAL LOAD SUMMARY					
LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)		
INTERIOR LIGHTING	4,277	x	125%	=	0
EXTERIOR LIGHTING	1,097	x	125%	=	1,371
SIGNAGE	7,400	x	125%	=	3,000
MINIMUM GENERAL LIGHTING PER NEC-220 x 125%					17,375
MINIMUM TRACK LIGHTING SHOW WINDOW PER NEC-220 x 125%					6,500
POWER & HVAC					
EXISTING	0	x	100%	=	0
RECEPTACLES	10,390	x	100%:50%	=	10,190
MISCELLANEOUS EQUIPMENT	71,660	x	100%	=	71,660
REFRIGERATION EQUIPMENT	0	x	100%	=	0
KITCHEN	0	x	100%	=	0
HVAC - SUMMER	7,494	x	100%	=	7,494
HVAC - WINTER	0	x	100%	=	0
SUPP. ELECTRIC HEAT	1,368	x	100%	=	1,368
MOTORS	3,324	x	100%	=	3,324
LARGEST MOTOR	1,822	x	25%	=	456
SUB-TOTAL (VA)	103,642				122,707
SUB-TOTAL (AMPS)	288				341
SERVICE SIZE (AMPS)					400
SPARE CAPACITY (AMPS)					50

PANELBOARD MDP											
BUS AMPS:			LOCATION:			UTILITY AREA:			GROUND BUS:		
MAIN SIZE / TYPE:			NEMA RATING:			ISOL. GROUND BUS:			FEED THRU LUGS:		
VOLTS/PHASE:			AFC VALUE:			FEED THRU LUGS:			SECTIONS:		
MOUNTING:			AIC RATING:			1 OF 1			1 OF 1		
CKT #	CIRCUIT DESCRIPTION	BREAKER	WIRE	LOAD	CONNECTED PER PHASE (VA)	LOAD	WIRE	BREAKER	CIRCUIT DESCRIPTION	CKT #	
1	RTU-1 (HACR BREAKER)	35	3	RD	2,496	2,496	2,496	0	1	20	SPARE
3	SHP AIR COMPRESSOR (HACR BREAKER)	30	3	RD	2,100	4,200	2,100	2,100	RD	3	30
5	EXHAUST FAN EF-3 (HACR BREAKER)	20	3	RD	936	26,214	24,220	23,284	RD	3	300
7	PANELBOARD LP	100	3	RD	936	2,894	2,787	21,706		3	SPACE
PER PHASE SUB-TOTALS					36,906	33,705	32,509	LEGEND:			
TOTAL CONNECTED PANELBOARD (VA)					102,620	TS - VIA TIME SWITCH		ST - SHUNT TRIP			
TOTAL CONNECTED PANELBOARD (AMPS)					283	GF - GROUND FAULT INTERRUPTER		LCK - LOCKING TAB			
TOTAL PANELBOARD DEMAND (VA)					110,453	FA - FIRE ALARM / RED / LOCKING TAB		IG - ISOLATED GROUND			
TOTAL PANELBOARD DEMAND (AMPS)					307	EM - EMERGENCY LTG. / LOCKING TAB		RD - RE: RISER DIAGRAM			

PANELBOARD LP											
BUS AMPS:			LOCATION:			UTILITY AREA:			GROUND BUS:		
MAIN SIZE / TYPE:			NEMA RATING:			ISOL. GROUND BUS:			FEED THRU LUGS:		
VOLTS/PHASE:			AFC VALUE:			FEED THRU LUGS:			SECTIONS:		
MOUNTING:			AIC RATING:			1 OF 1			1 OF 1		
CKT #	CIRCUIT DESCRIPTION	BREAKER	WIRE	LOAD	CONNECTED PER PHASE (VA)	LOAD	WIRE	BREAKER	CIRCUIT DESCRIPTION	CKT #	
1	SERVICE AREA LIGHTING	20	1	12	710	710	0	1	20	SPARE	2
3	SERVICE AREA LIGHTING	20	1	12	994	1,174	180	12	1	20	EXTERIOR FRONT RCPT
5	SERVICE AREA LIGHTING	20	1	12	994	1,184	200	12	1	20	TIME SWITCH 'TS' & CONTACTORS
7	SPARE	20	1	12	0	1,200	0	12	1	20	SHOWROOM SIGNAGE
9	EXTERIOR LIGHTING	20	1	12	114	209	95	12	1	20	BUILDING SIGN LIGHTING
11	EXTERIOR LIGHTING	20	1	12	114	1,314	1,200	12	1	20	BUILDING SIGNAGE
13	SERVICE AREA LIGHTING & EM LTG	20	1	12	102	532	430	10	1	20	SITE LIGHTING
15	RECEPTACLE AT MONUMENT SIGN	20	1	12	180	524	344	10	1	20	SITE LIGHTING
17	SHOWRM LIGHTS	20	1	12	964	661	0	1	20	SPARE	18
19	SUPPORT AREA LTG/EM LTG/EF-2	20	1	12	352	452	0	1	20	SPARE	20
21	INVENTORY LIGHTING/EF-1A-1	20	1	12	880	880	0	1	20	SPARE	22
23	SPARE	20	1	12	0	0	0	1	20	SPARE	24
25	SPARE	20	1	12	0	0	0	1	20	SPARE	26
27	SPARE	20	1	12	0	0	0	1	20	SPARE	28
29	SPARE	20	1	12	0	0	0	1	20	SPARE	30
PER PHASE SUB-TOTALS					2,894	2,787	3,169	LEGEND:			
TOTAL CONNECTED PANELBOARD (VA)					8,850	TS - VIA TIME SWITCH		ST - SHUNT TRIP			
TOTAL CONNECTED PANELBOARD (AMPS)					25	GF - GROUND FAULT INTERRUPTER		LCK - LOCKING TAB			
TOTAL PANELBOARD DEMAND (VA)					17,294	FA - FIRE ALARM / RED / LOCKING TAB		IG - ISOLATED GROUND			
TOTAL PANELBOARD DEMAND (AMPS)					48	EM - EMERGENCY LTG. / LOCKING TAB		RD - RE: RISER DIAGRAM			

PANELBOARD PP												
BUS AMPS:			LOCATION:			UTILITY AREA:			GROUND BUS:			
MAIN SIZE / TYPE:			NEMA RATING:			ISOL. GROUND BUS:			FEED THRU LUGS:			
VOLTS/PHASE:			AFC VALUE:			FEED THRU LUGS:			SECTIONS:			
MOUNTING:			AIC RATING:			1 OF 2			1 OF 2			
CKT #	CIRCUIT DESCRIPTION	BREAKER	WIRE	LOAD	CONNECTED PER PHASE (VA)	LOAD	WIRE	BREAKER	CIRCUIT DESCRIPTION	CKT #		
1	MVS SERVER CABINET IG IN OFFICE	20	1	12	360	900	540	12	1	20	CUSTOMER SHOWRM RCPTS	
3	OFFICE IG RCPTS	20	1	12	720	900	180	12	1	20	COFFEE BAR	
5	SALES POD AND OR DESK IG RCPT	20	1	12	360	1,360	1,000	12	1	20	REFRIGERATOR	
7	SALES POD AND OR DESK IG RCPT	20	1	12	360	1,220	860	12	1	20	TOILET RCPT & EWC	
9	SALES POD AND OR DESK IG RCPT	20	1	12	360	540	180	12	1	20	BREAK RCPT	
11	CUSTOMER SHOWRM IG RCPT	20	1	12	180	1,380	1,200	12	1	20	MICROWAVE	
13	SERVICE AREA RCPT	20	1	12	360	1,960	1,600	12	2	20	ELECTRONIC WHEEL BALANCER #13A	
15	SERVICE AREA RCPT	20	1	12	180	1,760	1,600	12	2	20	BALANCER NON-ROAD FORCE #13B	
17	SERVICE AREA RCPT	20	1	12	180	1,280	1,100	12	2	20	LOUVER L-2L-3	
19	OPTIONAL SECURITY SYSTEM	20	1	12	360	1,460	400	12	1	20	ALIGNMENT COMPUTER	
21	MVS SERVICE DESK IG IN BAY AREA	20	1	12	360	760	2,000	1,200	12	1	20	SPARE
23	SERVICE AREA EWC	20	1	12	600	360	0	1	20	SPARE	24	
25	SERVICE AREA WORK BENCH	20	1	12	360	680	180	12	1	20	SERVICE AREA RCPT	
27	BOSS TV	20	1	12	500	2,100	200	12	1	20	CO SENS. TEMP TIR. MANGER	
29	BRK SHOP #10	20	1	12	1,300	0	180	12	1	20	CO SENS. TEMP TIR. MANGER	
31	HEAVY DUTY CORD DROP #17	20	1	12	1,500	4,260	2,760	8	2	30	PRINT AREA RCPT	
33	HEAVY DUTY CORD DROP #17	20	1	12	1,500	4,260	2,760	8	2	30	PRINT AREA RCPT	
35	SHOP FAN #42	20	1	12	1,300	1,860	500	12	1	20	RT DISF.	
37	SHOP FAN #42	20	1	12	1,300	1,800	500	12	1	20	RT DISF.	
39	SHOP FAN #42	20	1	12	1,300	1,800	500	12	1	20	RT DISF.	
41	SHOP FAN #42	20	1	12	1,300	2,800	1,500	12	1	20	RT DISF.	
PER PHASE SUB-TOTALS					25,276	23,284	21,706	LEGEND:				
TOTAL CONNECTED PANELBOARD (VA)					70,258	TS - VIA TIME SWITCH		ST - SHUNT TRIP				
TOTAL CONNECTED PANELBOARD (AMPS)					195	GF - GROUND FAULT INTERRUPTER		LCK - LOCKING TAB				
TOTAL PANELBOARD DEMAND (VA)					70,258	FA - FIRE ALARM / RED / LOCKING TAB		IG - ISOLATED GROUND				
TOTAL PANELBOARD DEMAND (AMPS)					195	EM - EMERGENCY LTG. / LOCKING TAB		RD - RE: RISER DIAGRAM				

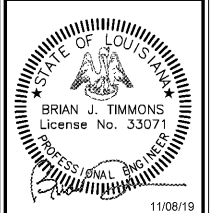


- CONTACTOR NOTES**
- ALL CONTACTORS TO BE ELECTRICALLY HELD TYPICAL.
 - ALL CONTACTORS AND TIME SWITCH SHALL BE INSTALLED IN ONE (1) GENERAL PURPOSE CABINET WITH HINGED DOOR, VERIFY CABINET SIZE IN FIELD.
 - CONTRACTOR TO PROVIDE TIME SWITCH (TS), CONTACTORS, AND PHOTOCELLS, AS SHOWN TO CONTROL ALL EXTERIOR LIGHTING AND SIGNAGE AS SHOWN IN "CONTACTOR DIAGRAM" THIS SHEET. COORDINATE WITH STORE MANAGER THE HOURS OF OPERATION AND DEMONSTRATE ALL "TIME SWITCH" FUNCTIONS. PROVIDE STORE MANAGER AND FIRESTONE CONSTRUCTION DEPARTMENT WITH COPIES OF ALL OPERATION AND INSTALLATION MANUALS.
 - WALL MOUNT TIME SWITCH AND CONTACTOR PANEL.
 - PROVIDE PHOTOCELL DOWNSTREAM OF TIMESWITCH TO ALLOW FOR PHOTOCELL OVERRIDE OF TIMESWITCH CONTROLS. CONTROL INTENT IS FOR PARKING LOT LIGHTING, SIGNAGE AND BUILDING SIGN LIGHTING TO BE "OFF" BETWEEN 2AM AND STORE OPENING TIME. AT STORE OPENING TIME, THE FIXTURES SHOULD BE ON PHOTOCELL CONTROL ONLY TO ALLOW THESE FIXTURES TO ENERGIZE ON DURING DARKER PERIODS THROUGHOUT THE DAY. WALL PACKS SHALL BE ON PHOTOCELL CONTROL ONLY 24 HOURS/DAY.
 - THE CONDUIT WHICH PROVIDES POWER TO THE EXTERIOR SIGN LIGHTING, EXTERIOR LIGHTING, OR OTHER EXTERIOR REQUIREMENTS REQUIRING UNDERGROUND CONDUIT SHOULD COMMENCE UNDERGROUND AT THE INSIDE FACE OF AN EXTERIOR WALL AND EXIT THE BUILDING IMMEDIATELY WITHOUT RUNNING HORIZONTAL UNDER OR IN THE GROUND FLOOR CONSTRUCTION.

- RISER DIAGRAM NOTES**
- ALL METERING EQUIPMENT AND PANELS SHALL BE AS MANUFACTURED PER THE ELECTRICAL SPECIFICATION, AND MEET ALL REQUIREMENTS.
 - GROUNDING CONDUCTORS, AND ALL GROUNDING REQUIREMENTS, SHALL BE INSTALLED AS DIRECTED BY EQUIPMENT MANUFACTURER AND AS SHOWN ON DRAWINGS.
 - LABEL EACH JUNCTION BOX, PULL OR TAP BOX, DISCONNECT SWITCH ETC. WITH BLACK LETTERING ON AN ORANGE STICKER WITH LETTERING SIZED IN RELATION TO SIZE OF COVER, AND FOR PANELS SEE SPECIFICATIONS.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY. FIELD VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY AND CONTACT THE ENGINEER OF RECORD WITH THE DISCREPANCY SO AS TO REVISE THE EQUIPMENT RATINGS AS NEED BE.
 - PROVIDE MULTI-LAYERED ACRYLIC LABELS PER SPECIFICATION FOR ALL DISTRIBUTION PANEL BOARDS, PANEL BOARDS, SWITCH GEAR SECTIONS, STARTERS AND INDIVIDUAL SWITCH GEAR FUSED SWITCHES.
 - SIZE ALL BRANCH CIRCUITS NOT TO EXCEED 3% VOLTAGE DROP. ALL WIRE SIZES SHALL BE FOR AMPERAGE REQUIRED PER N.E.C.
 - ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL THROUGHOUT, EXCEPT WHERE OTHERWISE NOTED.
 - SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - INCLUDE IN CONTRACT ALL ONE TIME TAP CHARGERS AND FEES FROM UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY.
 - ALL ELECTRICAL AND TELEPHONE CONDUITS THAT PENETRATE FIRE RATED WALLS SHALL BE SEALED WITH FIRE STOP MATERIAL TO MEET ALL GOVERNING CODE REQUIREMENTS.
 - CONTRACTOR TO PROVIDE LABEL STATING ARC-FAULT AND AIC RATING ON EACH PANEL.



NEW FCAC STORE
2019 - JANUARY - SMALL I
233 S AIRLINE HWY
GONZALES, LA



BID SET
11.18.19
TRCI

ISSUE BLOCK

DATE	DESCRIPTION	BY
11/11/19		CB #1

PROPERTY NO.: 160013
6 DIGIT NO.: 902556
4 DIGIT NO.: 014W
AOR PROJECT NUMBER: 1955827
TO PERMIT: DATE: 7-30-2019
TO BID: DATE: ##-##-##

SHEET TITLE:
RISER DIAGRAM,
PANEL SCHEDULES
AND NOTES

SHEET NUMBER:
E5