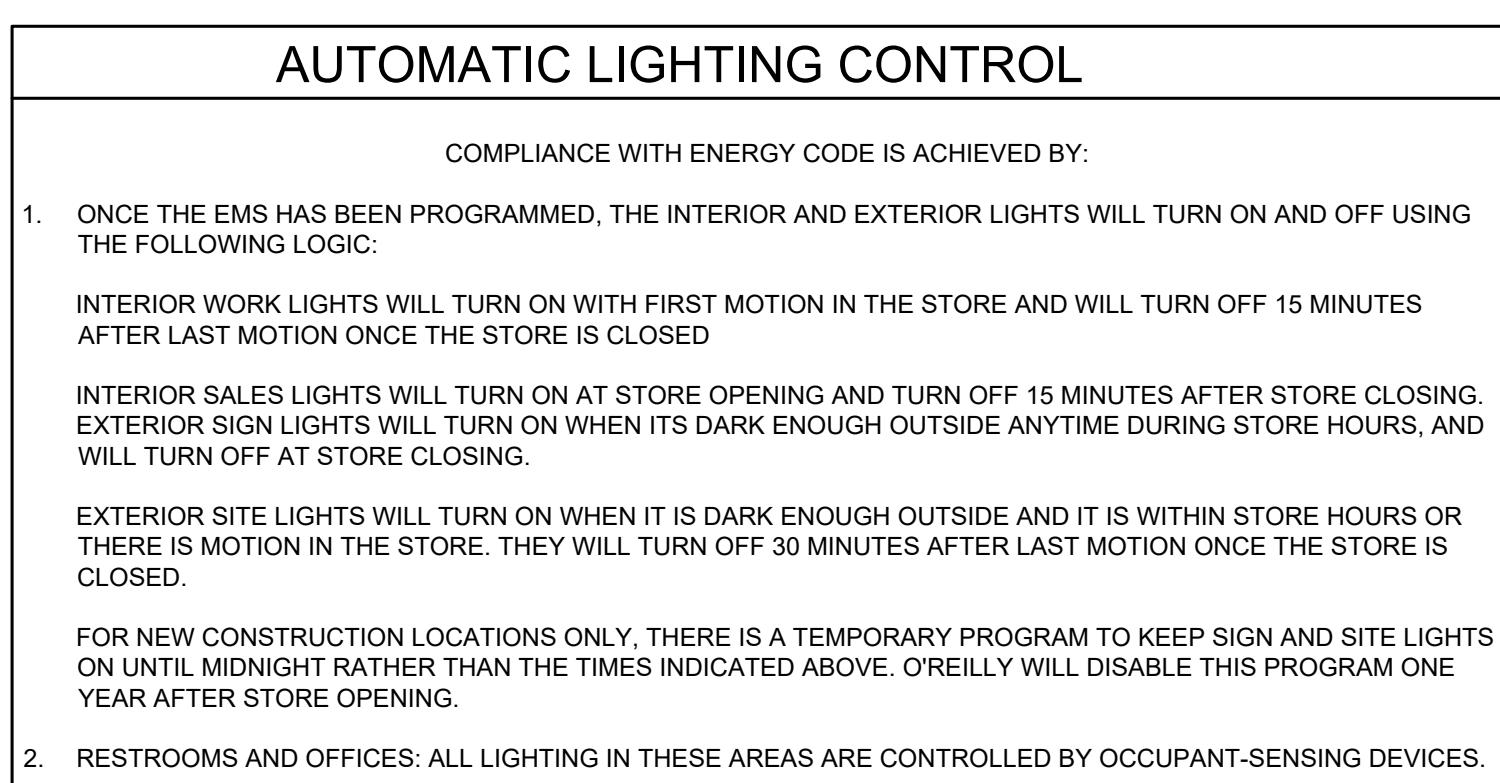
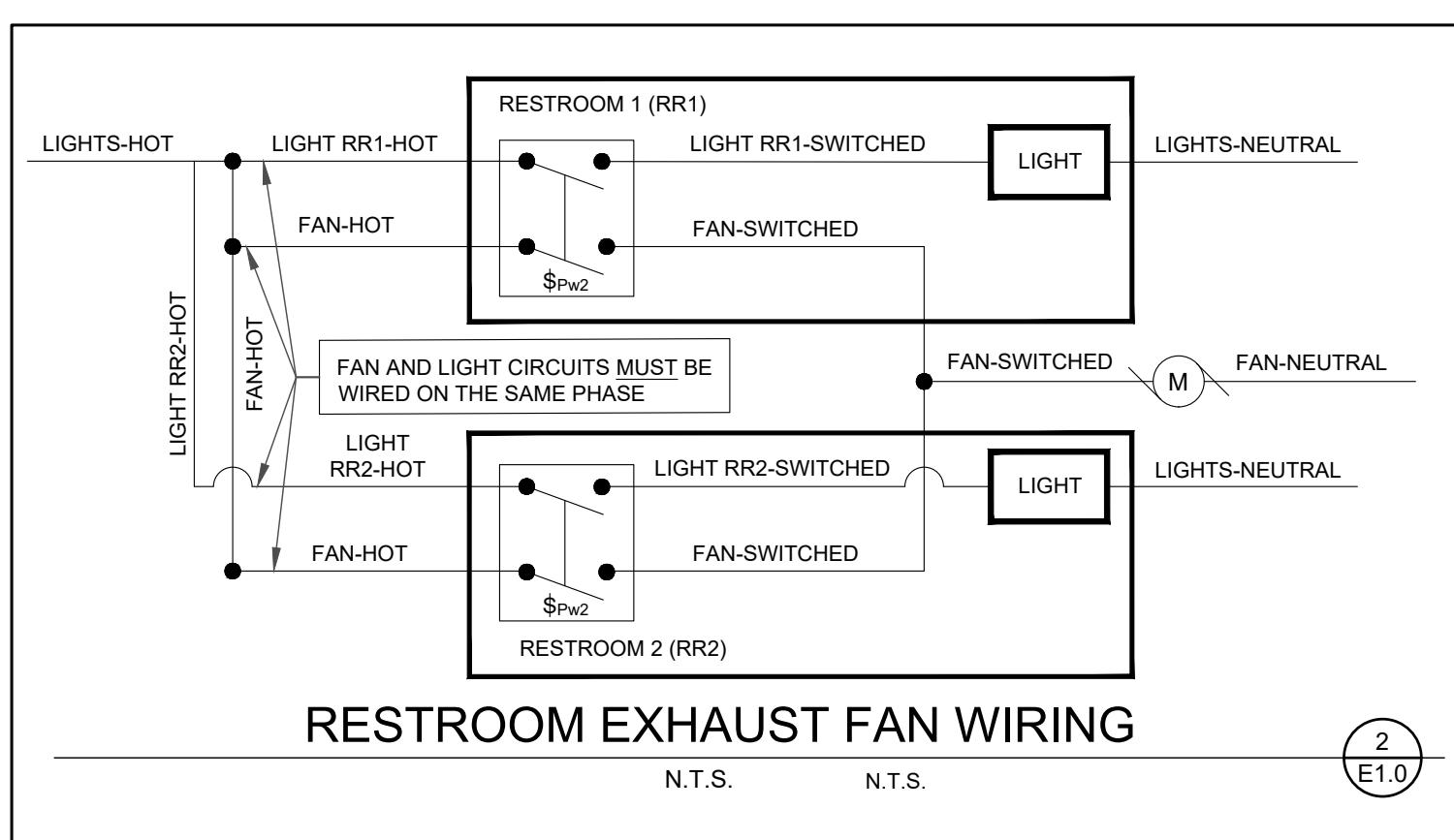
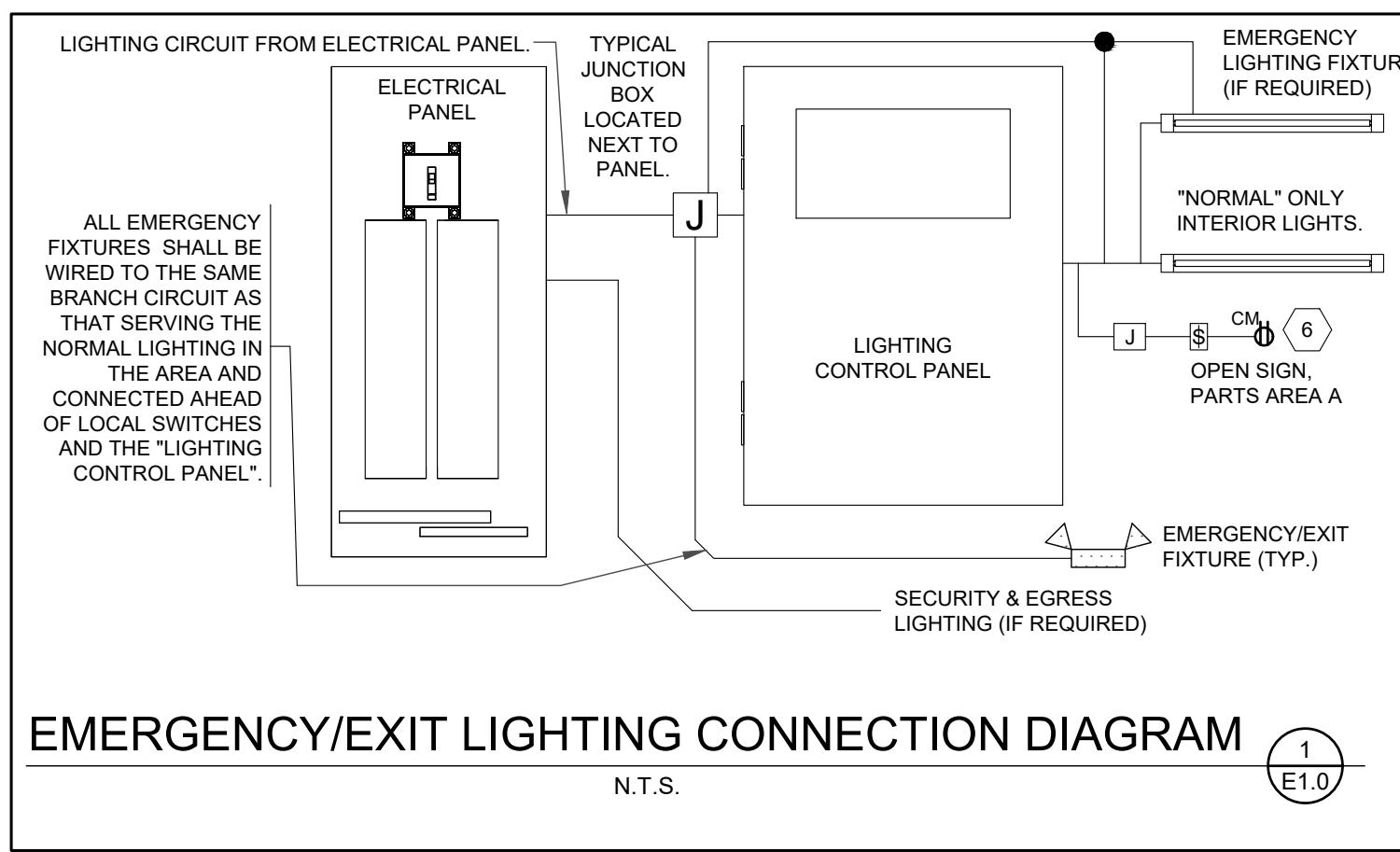


LIGHT FIXTURE SCHEDULE				DESCRIPTION		VOLTAGE	QUANTITY
SYMBOL	TYPE	MFR.	SPECIFICATION				
EX1	-	-	EXISTING LIGHT FIXTURE	120V	10		
EX2	-	-	EXISTING LIGHT FIXTURE	120V	4		
EX3	-	-	EXISTING EXTERIOR LIGHT FIXTURE	120V	20		
A1	TBD	TBD	NEW 1'X8' LIGHT FIXTURE	120V	36		
B1	TBD	TBD	NEW 1'X8' LIGHT FIXTURE	120V	41		
B2	TBD	TBD	NEW 1'X4' LIGHT FIXTURE	120V	8		
D	TBD	TBD	LED EXIT SIGN WITH BUGEYE WITH MINIMUM 90 MINUTES BATTERY BACKUP	120V	PER CODE		
C	TBD	TBD	LED EXIT SIGN WITH MINIMUM 90 MINUTES BATTERY BACKUP	120V	PER CODE		
L	TBD	TBD	WET LOCATION EMERGENCY LIGHT WITH MINIMUM 90 MINUTES BATTERY BACKUP	120V	PER CODE		
EM	-	-	NEW EMERGENCY LIGHT WITH MINIMUM 90 MINUTES BATTERY BACKUP	120V	PER CODE		
WP1	WP1	TBD	WALL PACK LIGHT	120V	1		



EXIT SIGNS

- REFER TO ARCHITECTURAL SET FOR MINIMUM MOUNTING HEIGHT FOR EXIT SIGNS. ALL EXIT SIGNS MUST BE CLEARLY VISIBLE, NOT OBSCURED BY SHELVING AND/OR MERCHANDISE AND COORDINATED WITH INTERIOR PAINT SCHEME. CONFIRM SHELVING HEIGHT(S) AND PAINT SCHEME WITH O'REILLY REPRESENTATIVE PRIOR TO INSTALLATION.
- THE MAXIMUM HEIGHT FOR AN EXIT LIGHT ASSOCIATED WITH A SPECIFIC OPENING (I.E. MOUNTED OVER A DOOR OR OPENING) SHALL BE NO GREATER THAN THE CODE ALLOWED 6'-8" ABOVE THE TOP EDGE OF THE DOOR OR OPENING.

CONDUIT REQUIREMENTS

ALL WIRING SHALL BE IN CONDUIT, EXCEPT THAT MC-CABLE MAY BE SUBSTITUTED ONLY AS FOLLOWS:

- MC-CABLE (MAXIMUM CABLE LENGTH OF 10'-0") MAY BE INSTALLED ONLY FOR BRANCH CIRCUIT WIRING TO LIGHT FIXTURES.
- "MC-CABLE (MAXIMUM CABLE LENGTHS SHOWN ON DETAIL 2(E.2)) MAY BE INSTALLED ONLY ABOVE SLAB AND ONLY AT LOCATIONS INDICATED ON E.2 SHEET."

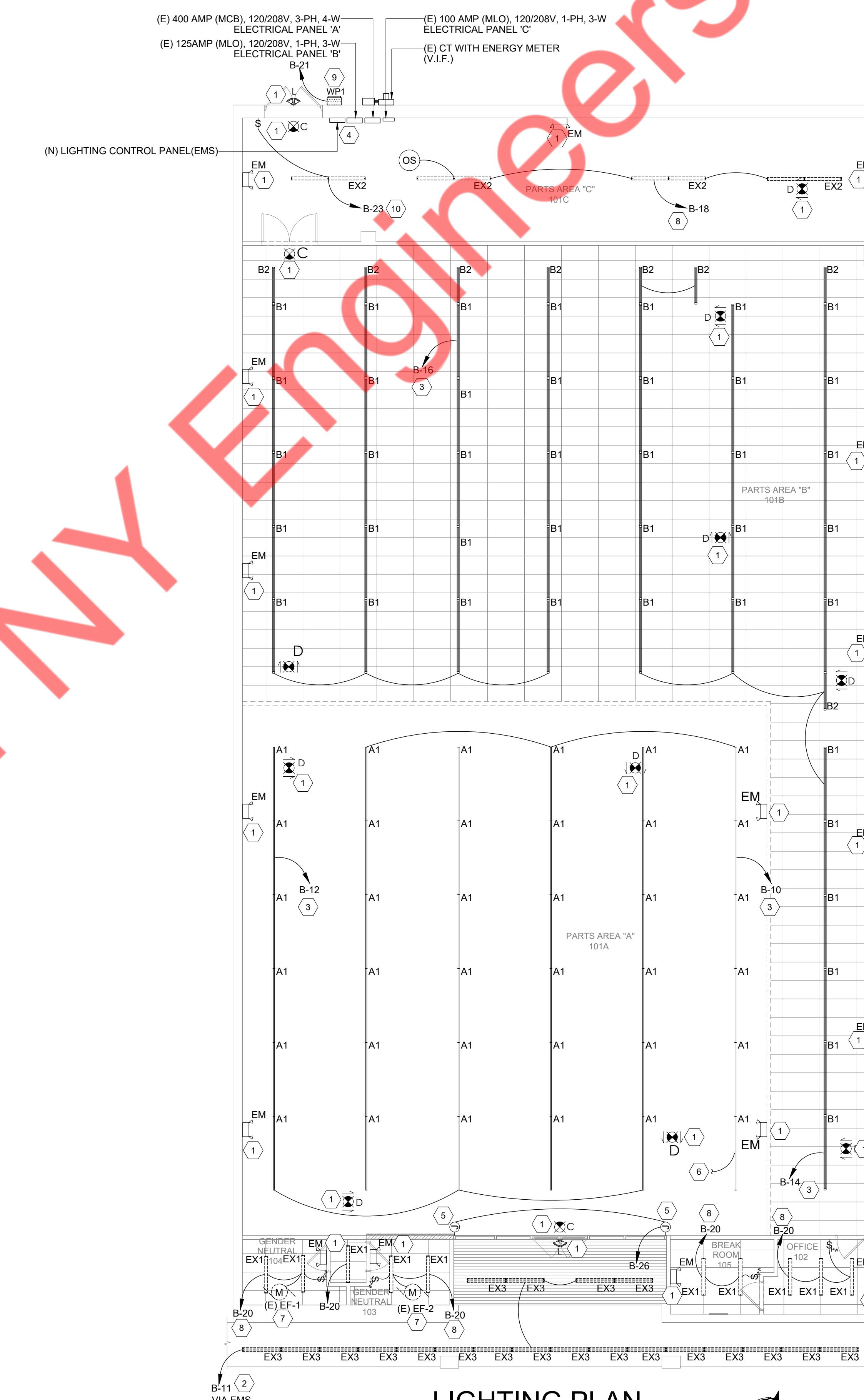
INTERIOR LIGHTING ZONES

- ALL INTERIOR LIGHTING WITHIN PARTS AREA "A" SHALL BE CONSIDERED "SALES" ZONE (ON ONLY WHEN STORE IS OPEN FOR BUSINESS).
- ALL INTERIOR LIGHTING WITH PARTS AREA "B", RESTROOMS, OFFICE, AND BREAK AREA SHALL BE CONSIDERED "WORK" ZONES (ON WHENEVER THERE IS MOTION OR THE STORE IS OPEN).

ELECTRICAL KEYNOTES:

- TIE ALL EMERGENCY LIGHT, EXIT SIGN WITH MINIMUM 90-MINUTES BATTERY BACK-UP TO AREA NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF CONTROL AS SHOWN ON PLAN. WIRE THE LIGHTS TO THE EXISTING EMERGENCY LIGHT CIRCUIT IF POSSIBLE. OTHERWISE PROVIDE NEW BASE BID ACCORDINGLY.
- EXISTING LIGHT FIXTURES, ITS CIRCUITS AND THEIR CONTROLS SHALL REMAIN. ELECTRICAL CONTRACTOR TO VERIFY THE OPERABLE CONDITION WITH ARCHITECT/OWNER IN FIELD. PROVIDE NEW AS SHOWN IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- CONNECT VIA LIGHTING CONTROL PANEL (EMS PANEL). CONTRACTOR SHALL INSTALL 0-10V CONTROL WIRING TO ALL FIXTURES.
- ELECTRICAL CONTRACTOR TO VERIFY THE OPERABLE CONDITION OF EXISTING LIGHTING CONTROL PANEL. REUSE IF POSSIBLE OTHERWISE PROVIDE NEW SIEMENS EMS PANEL AS SHOWN AS PER O'REILLY REQUIREMENT. BASE BID ACCORDINGLY.
- MOUNT J-BOX INSIDE BUILDING & FLEX CONDUIT THRU WALL FOR POWER SUPPLY TO ILLUMINATED SIGN. EXACT LOCATIONS OF PENETRATIONS SHALL BE COORDINATED WITH SIGN COMPANY. PENETRATIONS SHALL BE BEHIND SIGNAGE. WATERPROOF W/ ELASTOMERIC POLYURETHANE (NO EXCEPTIONS) EQUAL TO "VULKEM" 116. WIRE TO SIGN WITH 15' OF WIRING "WHIP" (SHALL BE FLEX OR TYPE MC CABLE) & MAKE FINAL ELECTRICAL CONNECTIONS TO THE SIGN CABINETS. REUSE EXISTING CIRCUITS IF POSSIBLE. EITHER PROVIDE NEW AS SHOWN. BASE BID ACCORDINGLY.
- TO OPEN SIGN. SEE SHEET E2.0.
- EXISTING EXHAUST FANS SHALL REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT OPERABLE CONDITION IN FIELD. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- VERIFY EXISTING CIRCUITS AND CONTROLS REUSE IF POSSIBLE. OTHERWISE PROVIDE NEW CIRCUITS AND CONTROLS AS SHOWN. BASE BID ACCORDINGLY. ROUTE THE LIGHTING CIRCUIT THRU THE LOCAL OCCUPANCY SENSORS AND DIRECTLY TO THE CIRCUIT BREAKER. THESE FIXTURES SHALL NOT BE SWITCHED BY THE LIGHTING CONTROL PANEL. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS IN FIELD.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT REQUIREMENTS, LOCATION OF WALL PACK LIGHTS AND SHALL PROVIDE POWER AND CONTROLS ACCORDINGLY. BASE BID PRIOR TO ROUGH-IN.
- LIGHTING NEAR ELECTRICAL PANELS SHALL NOT BE CONTROLLED BY ANY AUTOMATIC MEANS AND SHALL BE COMPILED AS PER NEC 110.26(D).

NOTE:
ALL EXISTING EMERGENCY/EXIT LIGHTS FIXTURES WITHIN THE O'REILLY SPACE SHALL BE REPLACED WITH NEW EMERGENCY/EXIT LIGHT FIXTURES.



PANELBOARD			A	VOLTAGE	120 / 208 V	PHASE	3	WIRE	4	A B C			
PANEL TYPE			MCB	MAINS	400A	BUS RATING	400A	AIC RATING	V.I.F.	A B C			
NEMA TYPE ENCLOSURE			1	Mounting	Surface Options		Note		Existing Panel				
CKT.	EQT	CKT	CKT	DESCRIPTION	Pole	Wire	BKR.	Total	Phase	Total	BKR.	Wire	Pole
No.	Tag	Tag			Size	Size	Size	Watts	Watts	Watts	Size	Size	
1				EXISTING PANEL B	2	3	100	8,020	A	6,485			
3	E	(E)						6,770	B	6,485	70	4	3
5				EXISTING RTU-2	3	4	70	6,485	A	0			
7	F	(E)						6,485	B	0	50	8	2
9													
11	(N)	LATHE			1	10	20	1,700	C	500	20	12	1
13	(N)	CUTOFF SAW			1	10	20	1,730	A	180	20	12	1
15	(N)	CRIMPER			1	12	20	1,770	B	180	20	12	1
17	(N)	RECEPTACLES (LATHE)			1	12	20	540	C	360	20	12	1
19	(N)	STARTER/ALT. TESTER			1	12	20	1,680	A	360	20	12	1
21	(N)	STARTER/ALT. TESTER			1	12	20	1,680	B	1,750	20	12	1
23	(N)	STARTER/ALT. TESTER			1	12	20	1,640	C	720	20	12	1
25	(N)	RECEPTACLES (TEST)			1	12	20	360	A	720	20	12	1
27	(N)	ISOLATED GRD. RECEPTACLES (OFFICE)			1	12	20	360	B	360	20	12	1
29	(N)	RECEPTACLES (OFFICE)			1	12	20	720	C	360	20	12	1
31	(N)	BATTERY BACKUP (I.G.)			1	10	30	3,000	A	720	20	12	1
33	GFCI	(N)	WATER COOLER RECEPT		1	12	20	900	B	360	20	12	1
35	(N)	RECEPT. IRRIGATION			1	12	20	1,000	C	720	20	12	1
37	(N)	ISOLATED GRD. RECEPTACLES (OFFICE)			1	12	20	360	A	500	20	12	1
39	C	(N)	FIRE ALARM (IF REQ'D)		1	12	20	300	B	360	20	12	1
41		SPACE							C				
ALL PHASES TO BE BALANCED TO WITHIN 7%													
(E) EXISTING TO REMAIN													
(N) NEW CIRCUIT													
GFCI GROUND FAULT CURRENT INTERRUPTER													
IG CIRCUITS WITH ISOLATED GROUND													
TC CIRCUITS ON TIMECLOCK													
EMS ROUTING TO THE EMS PANEL													
C BREAKER LOCK													
a,b,c SWITCHES CONTROLLING LIGHTS													
TOTAL CONNECTED LOAD	79,590	WATTS			222	AMPS							
TOTAL DEMAND LOAD	81,520	WATTS			227	AMPS							

ELECTRICAL PANEL SCHEDULE			ELECTRICAL LOAD SUMMARY															
PANELBOARD			A	VOLTAGE	120 / 208 V	PHASE	3	WIRE	4	A B C			DESCRIPTION	NEC CONNECTED KW	VOLT	PHASE	NEC DEMAND FACTOR	NEC DEMAND KW
PANEL TYPE	MCB	MAINS	1	Mounting	400A	BUS RATING	400A	AIC RATING	V.I.F.	A B C			NOTE	EXISTING PANEL	CKT. TAG	EQT TAG	CKT. NO.	
CKT. NO.	EQT TAG	CKT	CKT	DESCRIPTION	Pole	Wire	BKR.	Total	Phase	BKR.	Wire	Pole	DESCRIPTION	CKT. TAG	EQT TAG	CKT. NO.		
SIZE	SIZE	SIZE	WATTS							SIZE	SIZE							
1				EXISTING RTU-1	2	3	100	8,020	A	6,485	70	4	3	EXISTING RTU-1	(E)		2	
3	E	(E)						6,770	B	6,485					(E)		4	
5				EXISTING PANEL C	3	4	70	6,485	A	0	50	8	2	EXISTING PANEL C	(E)		6	
7	F	(E)						6,485	B	0					(E)		8	
9																		
11	(N)	LATHE			1	10	20	1,700	C	500	20	12	1	CHECK IN RECEPT	(N)		12	
13	(N)	CUTOFF SAW			1	10	20	1,730	A	180	20	12	1	BATTERY RACK RECEPT	(N)		14	
15	(N)	CRIMPER			1	12	20	1,770	B	180	20	12	1	BATTERY RACK RECEPT	(N)		16	
17	(N)	RECEPTACLES (LATHE)			1	12	20	540	C	360	20	12	1	BREAK AREA RECEPT	(N)		18	
19	(N)	STARTER/ALT. TESTER			1	12	20	1,680	A	360	20	12	1	RECEPTACLES (INSTALLER)	(N)		20	
21	(N)	STARTER/ALT. TESTER			1	12	20	1,680	B	1,750	20	12	1	COKE MACHINE (ONLY)	(N)		22	
23	(N)	STARTER/ALT. TESTER			1	12	20	1,640	C	720	20	12	1	ISOLATED GRD. RECEPTACLES	(N)		24	
25	(N)	RECEPTACLES (TEST)			1	12	20	360	A	720	20	12	1	ISOLATED GRD. RECEPTACLES	(N)		26	
27	(N)	ISOLATED GRD. RECEPTACLES (OFFICE)			1	12	20	360	B	360	20	12	1	ISOLATED GRD. RECEPTACLES	(N)		28	
29	(N)	RECEPTACLES (OFFICE)			1	12	20	720	C	360	20	12	1	ISOLATED GRD. RECEPTACLES	(N)		30	
31	(N)	BATTERY BACKUP (I.G.)			1	10	30	3,000	A	720	20	12	1	ISOLATED GRD. RECEPTACLES	(N)		32	
33	GFCI	(N)	WATER COOLER RECEPT		1	12	20	900	B	360	20	12	1					

