

2 EXISTING ELECTRICAL RISER (PARTIAL)
E1.2 NOT TO SCALE

EXISTING ELECTRICAL RISER KEYED NOTES:

- EXISTING FEEDER TO REMAIN AS IS. NO WORK REQUIRED. SHOWN FOR INFORMATION ONLY.
- EXISTING EQUIPMENT TO REMAIN.
- CONNECT NEW ITEMS TO OR REMOVE EXISTING ITEMS FROM EXISTING CIRCUITS IN THIS PANEL PER PLAN AND SCHEDULES.
- EXISTING PANEL 'A' FED FROM 200A, 3-POLE FUSED DISCONNECT WITH 200A FUSES IN 'MS'.
- EXISTING LUTRON DIMMER SYSTEM PER DETAIL THIS SHEET. FEED FROM EXISTING 60A, 3-POLE BREAKER IN PANEL 'A' AND RECONNECT TO EXISTING FEEDER.

NOTE: PROVIDE WORK AND MATERIALS AS DEPICTED IN THESE DRAWINGS. IF ANY ADDITIONAL SYSTEMS (LIGHTING IN AREAS NOT BEING RENOVATED, HVAC CONTROLS, SECURITY, ETC.) THAT ARE NOT DIRECTLY INCLUDED IN THE SCOPE OF THIS WORK ARE AFFECTED BY WORK INDICATED, CONTRACTOR SHALL NOTIFY OWNER BEFORE PROCEEDING AND INCLUDE WORK TO RESTORE AFFECTED SYSTEMS TO PREVIOUS CONDITION.

NOTE: THIS RENOVATION RESULTS IN A NET LOAD REDUCTION; THE NEW LOAD ADDED IS SMALLER THAN THE EXISTING LOAD REMOVED.

PANEL A											
VOLTAGE		208/120 3 PH 4W		MANS: 226 MLO		A/C RATING: EXISTING		REMARKS:			
FEEDER AMP LUGS:		200		FEED:		ENCLOSURE: EXISTING		FIELD VERIFY EXTRA CIRCUITS			
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE		
20/1	E	NIGHT & EMERGENCY LIGHTS	169	1	A	2	492	WOMEN'S RESTROOM	E 20/1		
20/1	E	KITCHEN	516	3	B	4	648	WOMEN'S RESTROOM	E 20/1		
20/1	E	KITCHEN	240	6	C	8	316	FRONT EXTERIOR	2 SH2 20/1		
20/1	E	KITCHEN	636	7	A	8	690	NORTH EXTERIOR	2 SH2 20/1		
20/1	E	KITCHEN	564	9	B	10	840	SOUTH & WEST EXTERIOR	2 SH2 20/1		
20/1	E	SERVICE AREA LIGHTS	384	11	C	12	156	CANOPY LIGHTS	2 SH2 20/1		
20/1	E	EXISTING LOAD	420	13	A	14	348	ROOF LIGHTS	2 SH2 20/1		
20/1	2 SH2	FAST BUILDING LIGHTS	408	15	B	16	588	ROOF LIGHTS	2 SH2 20/1		
20/1	2 SH2	ROOF REC & LIGHTS	492	17	C	18	480	ROOF LIGHTS	2 SH2 20/1		
20/1	2 SH1	BUILDING SIGN	864	19	A	20	336	LANDSCAPE LIGHTS	2 SH2 20/1		
20/1	2 SH1	BUILDING SIGN	372	21	B	22	432	LANDSCAPE LIGHTS	2 SH2 20/1		
20/1	2 SH1	BUILDING SIGN	384	23	C	24	576	PYLON SIGN	2 SH1 20/1		
20/1	E	TIME CLOCK	492	25	A	26	852	EXISTING LOAD	2 SH1 20/1		
20/1	E	EMERGENCY LIGHTS	324	27	B	28	500	DINING RM 3 WINE COOLER	3 20/1		
20/1	2 SH2	EXISTING LOAD	456	29	C	30	500	DINING RM 4 WINE COOLER	3 20/1		
60/3	3.4	DIMMER PANEL 'DIM1'	370	31	A	32	478	DIMMER PANEL 'DIM2'	3.4 60/3		
			1000	33	B	34	460				
			400	35	C	36	420				
20/1	3.4	BAR TV/CABLE/CONV. OUTLETS	1000	37	A	38	500	LOBBY TV/CABLE BOXES	3.4 20/1		
20/1	3.4	TO GO COUNTER CONV.	500	39	B	40	500	LOBBY TV/CABLE BOXES	3.4 20/1		
20/1	3.4	BAR PLUG/MOLD	1000	41	C	42	0	SPACED			
Connected Load Per Phase			PH A:	7616	PH B:	7712	PH C:	6904			
Connected VA			Lighting	HVAC	Motors	Receipt	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.65	1.00	25417	68.2
Demand VA			20425	0	0	2500	1000	0	1492	25417	70.6

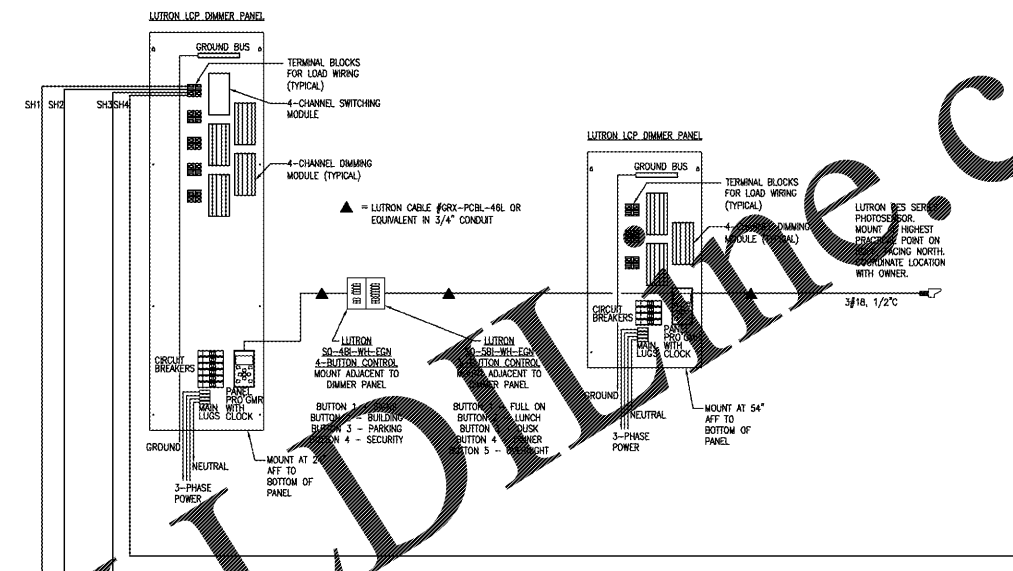
EXISTING PANEL GENERAL NOTES:

- VERIFY ALL CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. FOR ANY VACATED CIRCUITS, REMOVE CONDUIT AND WIRING BACK TO PANEL, TURN BREAKER OFF, AND MARK BREAKER AS 'SPARE'. FOR EXISTING CIRCUITS MISLABELED BUT CONNECTED TO EXISTING LOAD REQUIRED TO REMAIN, FIELD DETERMINE LOAD AND PROVIDE APPROPRIATE DESCRIPTION IN PANEL DIRECTORY.
- PROVIDE NEW TYPEWRITEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS. CLEAN OFF/REMOVE/ERASE ALL HANDWRITTEN LABELING ON PANEL COVER. CIRCUIT DESCRIPTION SHALL EXIST ON PANEL DIRECTORY ONLY.
- REMOVE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED, TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
- CLEAN PANELBOARD, AND REPAIR OR REPLACE ANY MISSING OR DAMAGED COMPONENTS ON EXISTING PANELBOARDS AND DIMMING EQUIPMENT. FIELD VERIFY AND COORDINATE EXACT REQUIREMENTS WITH OWNER.
- EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DRAWINGS AND/OR DISCUSSION. FIELD VERIFY ALL CIRCUITS.
- PANEL SCHEDULE INDICATES PROPOSED CONNECTION AFTER ALL CHANGES HAVE BEEN COMPLETED.

PANEL SCHEDULES:

- EXISTING FEEDER TO REMAIN AS IS.
- EXISTING CIRCUIT TO REMAIN AS IS.
- REPLACE CIRCUIT IN RESIDENT PANEL SCHEDULE ACCORDING TO ACTUAL LOAD SERVED.
- REMOVE EXISTING OVERHEAD EXTERIOR LIGHTING & SIGN CIRCUIT HOMERUNS TO ACHIEVE CLEAN PER LUTRON DETAIL THIS SHEET.
- REMOVE EXISTING CIRCUIT BREAKER.
- OVERLOADED CIRCUIT. FIELD VERIFY LOAD BEING SERVED AND COORDINATE W/OP WITH MANUFACTURER OF EQUIPMENT. ADJUST CIRCUIT WIRING AND OVERCURRENT PROTECTION DEVICE AS REQUIRED. IF MULTIPLE LOADS ARE SERVED BY OVERLOADED CIRCUIT, DOWNE LOADS AND CONNECT EXCESS TO AVAILABLE SPARE CIRCUIT.

1 PANEL SCHEDULES
E1.2 NOT TO SCALE



EXISTING EXTERIOR LIGHTING NOTE

FIELD VERIFY ACTUAL LOADS SERVED BY EACH EXTERIOR LIGHTING CIRCUIT AND DETERMINE BEST SWITCHED OUTPUT TO CONTROL CIRCUIT BASED ON SWITCHED OUTPUT DESCRIPTIONS IN DETAIL THIS SHEET.

LITTLE OR NO INFORMATION IS AVAILABLE ABOUT EXISTING CONTACTORS. CONTROL SCHEME INDICATED IS DIAGRAMMATIC ONLY, AND USE OF NEW CONTACTORS HAS BEEN INDICATED FOR COMMUNICATION OF INTENT. FIELD VERIFY LOCATION, CONFIGURATION, AND CONDITION OF EXISTING CONTACTORS AND REMOVE IF PRACTICAL. OTHERWISE, FIELD VERIFY EXACT QUANTITY OF CIRCUITS REQUIRING CONTROL UNDER EACH SWITCHED OUTPUT AND PROVIDE NEW CONTACTORS AS REQUIRED, TYPE AND RATINGS TO MATCH EXISTING, TO ACHIEVE CONTROL PER DETAIL THIS SHEET.

ALL LIGHTING CONTACTORS SHALL BE N.E.C. ELEC. HELD, 120V COIL, 30A, IN NAME 1 ENCLOSURE (TYP.); POLES AS REQUIRED WITH TWO (2) SPARE. CONTRACTOR TO REPLACE EXISTING CONTACTORS AS NECESSARY TO ACCOMPLISH THIS.

- NOTES:**
- THE DIMMER PANEL AND 4-SCENE OR 5-SCENE CONTROLLERS ARE FURNISHED, INSTALLED, AND WIRED BY THE CONTRACTOR.
 - REFER TO THE DIMMER PANEL INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - THE DIMMER PANEL AND CONTROLLER ARE MANUFACTURED BY LUTRON (NO EXCEPTIONS) AND SUPPLIED BY SPECIALTY LIGHTING. CONTACT SPECIALTY LIGHTING AT 800-787-0110 EXT. 221 FOR PROCESSING OF LUTRON EQUIPMENT.
 - COORDINATE EXACT MOUNTING LOCATION OF DIMMER PANEL WITH OWNER PRIOR TO WORK. OBSERVE ALL NEC REQUIRED CLEARANCES.
 - COORDINATE EXACT LOCATION OF 4-SCENE OR 5-SCENE DIMMER CONTROLLER WITH OWNER PRIOR TO WORK. PROVIDE ENGRAVED FACEPLATE LABELING EACH BUTTON PER OWNER'S DETAIL.
 - CONNECT EMERGENCY LIGHTING AHEAD OF UNSWITCHED HOT CIRCUIT BREAKER LOAD TERMINALS. PROVIDE LOCK-ON DEVICE FOR DEDICATED EMERGENCY CIRCUIT BREAKER. LABEL ALL CIRCUITS SERVING EMERGENCY LIGHTING PER NEC.
 - UNLESS NOTED OTHERWISE, USE EXISTING CIRCUITS AND LIGHTING CONTACTORS WHERE POSSIBLE. PROVIDE WIRING, ADDITIONAL CONTACTORS, AND OTHER COMPONENTS AS REQUIRED TO ENSURE COMPLETE INTEGRATION OF NEW ITEMS INTO LIGHTING CONTROL SYSTEM FOR ALL LIGHTS, SIGNS, AND OTHER ITEMS REQUIRING CONTROL PER OWNER. FIELD VERIFY AND COORDINATE EXACT REQUIREMENTS. NEW COMPONENTS SHALL BE COMPATIBLE WITH EXISTING.
 - CONNECT ALL EXISTING AND NEW CONTROLLED EXTERIOR LOADS VIA SWITCHING MODULE IN LUTRON PANEL. PROVIDE WIRING AND CONNECTIONS REQUIRED TO ACCOMPLISH CONTROL AS DESCRIBED IN THIS DETAIL.
 - CONNECT NEW AND EXISTING EXTERIOR EMERGENCY LIGHTING AHEAD OF CONTACTORS.
 - ALL LIGHTING CONTACTORS SHALL BE N.E.C. ELEC. HELD, 120V COIL, 30A, IN NAME 1 ENCLOSURE (TYP.); POLES AS REQUIRED WITH TWO (2) SPARE. CONTRACTOR TO REPLACE EXISTING CONTACTORS AS NECESSARY TO ACCOMPLISH THIS.

3 LUTRON DIMMING & EXTERIOR LIGHTING CONTROL SYSTEM DETAIL
E1.2 NOT TO SCALE

DIMMER PANEL 'DIM1' (LUTRON LCP)											
VOLTAGE		208/120 3 PH 4W		MANS: 100 MLO		A/C RATING: 10K		REMARKS:			
FEEDER AMP LUGS:		60		FEED:		ENCLOSURE: FLUSH NEMA 1		FIELD VERIFY EXTRA CIRCUITS			
CKT NUM & BREAKER	MODULE TYPE	MODULE MAX VA	DIMMER OUTPUT CKT	OUTPUT MAX VA	LOAD DESCRIPTION	LOAD VA	PHASE				
DIM1-1	4-Output	1920	SH-1	1200	SWITCHED OUTPUT 1 - SIGNAGE	0	A	EXTERIOR LIGHTING CONTROL SWITCHED OUTPUT			
20/1			SH-2	1200	SWITCHED OUTPUT 2 - BUILDING LIGHTS	0		EXTERIOR LIGHTING CONTROL SWITCHED OUTPUT			
			SH-3	1200	SWITCHED OUTPUT 3 - PARKING LOT LIGHTS	0		EXTERIOR LIGHTING CONTROL SWITCHED OUTPUT			
			SH-4	1200	SWITCHED OUTPUT 4 - SECURITY LITS (DUSK TO DAWN)	0		EXTERIOR LIGHTING CONTROL SWITCHED OUTPUT			
DIM1-2	4-Output	1920	DH1-5	1200	VESTIBULE RECESSED LIGHTS	30	B				
20/1	4A		DH1-6	1200	LOBBY TRACK / RECESSED LIGHTS	220					
			DH1-7	1200	LOBBY PENDANT CLUSTER	120					
			DH1-8	1200	RESTROOM LIGHTS / MONOPOINT	260					
DIM1-3	4-Output	1920	DH1-9	1200	HALLWAY LIGHTS / MONOPOINT	100	C				
20/1	4A		DH1-10	1200	BAR STRIP LIGHTS	80					
			DH1-11	1200	BAR TRACK	40					
DIM1-4	4-Output	1920	DH1-12	1200	DINING 5 & 6 TRACK / RECESSED LIGHTS	180	A				
20/1	4A		DH1-13	1200	DINING 5 PENDANTS	50					
			DH1-14	1200	DINING 6 CHANDELIER	96					
			DH1-15	1200	DINING 2 & 4 TRACK	210					
DIM1-5	4-Output	1920	DH1-17	1200	BACK BAR RECESSED LIGHTS	30	B				
20/1	4A		DH1-18	1200	DINING 3 PENDANT CLUSTER	140					
			DH1-19	1200	DINING 6 TRACK	140					
			DH1-20	1200	SPARE	0					
DIM1-5 20/1	BKR ONLY	N/A	N/A	N/A	DINING BAR EMERGENCY LIGHTS	0	C	BREAKER ONLY, LOCK-ON			
Connected Load Per Phase			PH A:	1920	PH B:	1920	PH C:	400			
Connected VA			Lighting	HVAC	Motors	Receipt	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.65	1.00	1830	5.1
Demand VA			2288	0	0	2288	0	0	0	2288	6.3

DIMMER PANEL 'DIM2' (LUTRON LCP)											
VOLTAGE		208/120 3 PH 4W		MANS: 100 MLO		A/C RATING: 10K		REMARKS:			
FEEDER AMP LUGS:		60		FEED:		ENCLOSURE: FLUSH NEMA 1		FIELD VERIFY EXTRA CIRCUITS			
CKT NUM & BREAKER	MODULE TYPE	MODULE MAX VA	DIMMER OUTPUT CKT	OUTPUT MAX VA	LOAD DESCRIPTION	LOAD VA	PHASE				
DIM2-1	4-Output	1920	DH2-1	1200	HALLWAY PENDANTS	28	A				
20/1	4A		DH2-2	1200	DINING RECESSED LIGHTS / MONOPOINT / TRACK	250					
			DH2-3	1200	BAR SOFFIT LIGHTS	130					
DIM2-2	4-Output	1920	DH2-4	1200	SERVICE ALLEY LIGHTS / MONOPOINT	90	B				
20/1	4A		DH2-5	1200	DINING 1 PENDANTS	50					
			DH2-6	1200	DINING 5 & 6 TRACK / RECESSED LIGHTS	150					
			DH2-7	1200	DINING 3 TRACK	140					
			DH2-8	1200	DINING 3 PENDANT CLUSTER	120					
			DH2-9	1200	DINING 1 TRACK	140	C				
			DH2-10	1200	WINE CABINET LIGHTS	80					
			DH2-11	1200	DINING 5 TRACK	220					
			DH2-12	1200	SPARE	0					
DIM2-2 20/1	BKR ONLY	N/A	N/A	N/A	DINING BAR EMERGENCY LIGHTS	0	A	NON-DIM BREAKER ONLY, LOCK-ON			
Connected Load Per Phase			PH A:	478	PH B:	400	PH C:	420			
Connected VA			Lighting	HVAC	Motors	Receipt	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor			1.25	1.00	1.00	NEC	1.00	0.65	1.00	1698	4.7
Demand VA			1698	0	0	1698	0	0	0	1698	4.7

DEVITA Architects
ARCHITECTS
PROJECT # 17-0341

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Olive Garden
ITALIAN KITCHEN

Issue Date: 04-26-2018

REVISION INFORMATION

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Restaurant #: 1173

P18 (HIGH)
1711 GALLATIN RD NORTH
MADISON, TN

ELECTRICAL PANEL SCHEDULES, RISER, & DETAILS

E1.2