

ULTRAWASH, LLC
 DEED BOOK 764
 PAGE 343

POLE SIGN	V 303
DIRECT SIGN	V 323
CANOPY	V 332
CLEARANCE BAR	V 331
MENU	V 302



SITE ELECTRICAL PLAN 1"=20'-0" **A**

- 1 3/4" C. - 2 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.)
- 2 DIRECTIONAL SIGN. (OPTIONAL)
- 3 MENU BOARD. REFER TO DETAILS 28&16/C1.0 AND 4/E7.0.
- 4 LED PYLON SIGN.
- 5 UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
- 6 PROVIDE SEPARATE 2" TELEPHONE AND CABLE CONDUITS TO CONNECTION ON SITE. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.
- 7 ORDER CONFIRMATION BOARD/ SPEAKER POST.
- 8 FUTURE PREVIEW BOARD. (OPTIONAL)
- 9 ILLUMINATED CLEARANCE BAR. REFER TO DETAILS 2 & 3/C1.1.
- 10 LED SITE LIGHTING. REFER TO CIVIL DRAWINGS, TYP. REFER TO DETAIL 12/C1.1.
- 11 1" C. - 3 #8, #8 GND.
- 12 3/4" C. - 2 #8, #8 GND.

KEY NOTES **B**



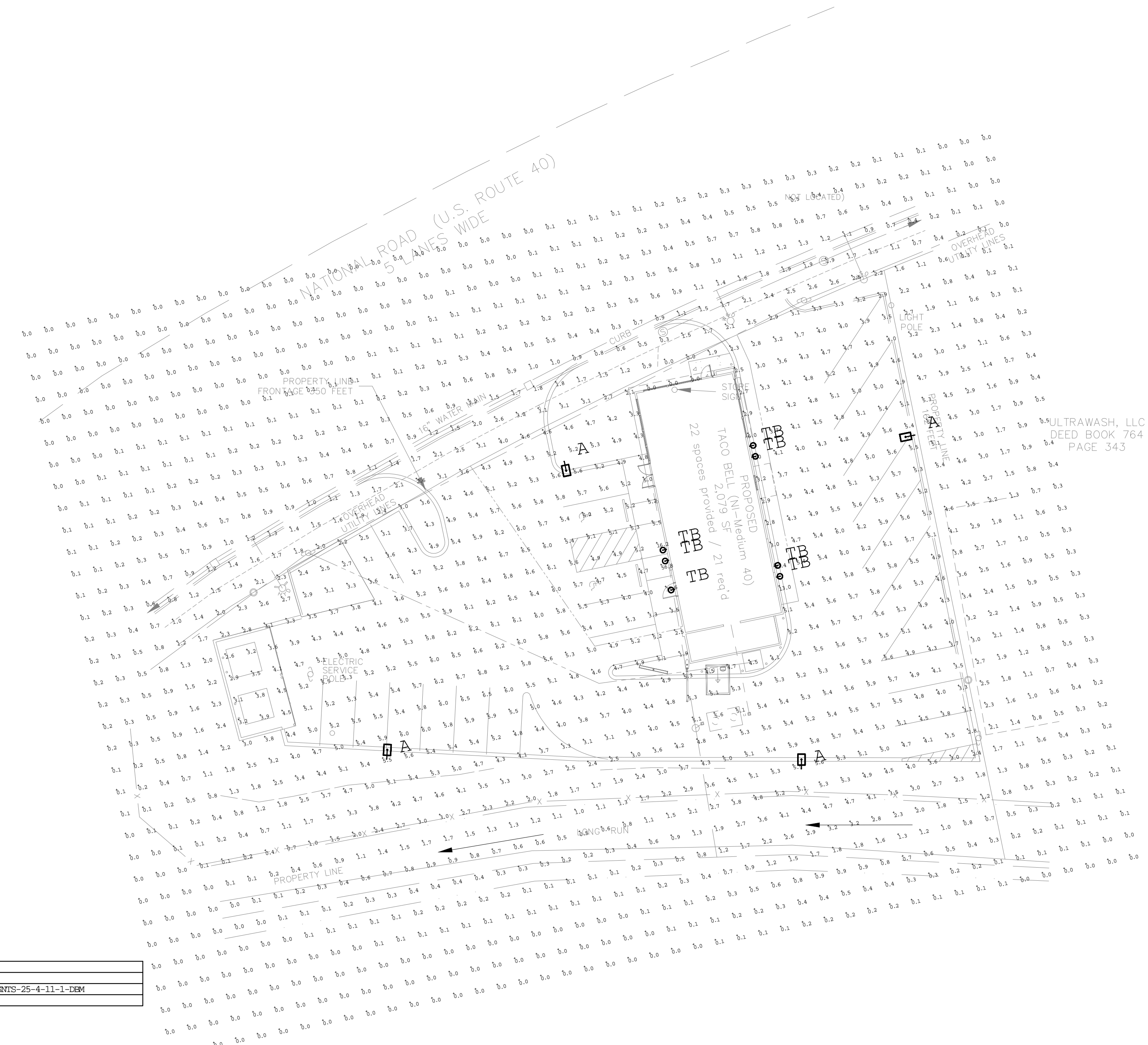
CONTRACT DATE: 11.05.15
 BUILDING TYPE: LIVE MAS-Medium 40
 PLAN VERSION: REV P ~ NOV '15
 SITE NUMBER:
 STORE NUMBER:

TACO BELL
 770 National Road
 Wheeling, WV 26003

TACO BELL
LIVE MAS
 MEDIUM 40
SITE ELECTRICAL PLAN

E1.0

PERMIT PLOT DATE:



Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
EXTENDED	2.24	100	0.0	N.A.	N.A.
VEHICULAR SURFACE	4.94	6.8	2.3	2.15	2.96

LIGHT LEVELS ARE MAINTAINED FOOT-CANDELES, INITIAL LEVELS ARE SLIGHTLY HIGHER

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lim. Lumens	LF	Lim. Watts	Description
⊞	4	A	SINGLE	34784	0.900	400	RZR-G-FLD-IV-120LED-1050mA-NW-DEM / SNTS-25-4-11-1-DEM
⊙	7	TB	SINGLE	1219	0.900	26	ACCU 05247-051-052 @ 9.17' A.F.G.

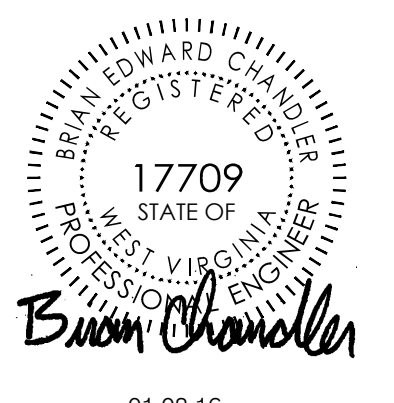
SITE FIXTURES ARE 400W 4000K LED w/ FLAT LENSES
 POLES ARE 25'-0" FOR AN OVERALL FIXTURE MOUNTING HEIGHT OF 27'-6" A.F.G.



SITE PHOTOMETRIC PLAN 1"=20'-0" **A**

1 THE INFORMATION PRESENTED HERE IS PROVIDED FOR REFERENCE ONLY AND WAS NOT PREPARED BY ID STUDIO 4, LLC. AS SUCH, ID STUDIO 4, LLC ASSUMES NO RESPONSIBILITY FOR ERRORS, OMISSIONS, OR CODE COMPLIANCE ISSUES IN THE PHOTOMETRIC STUDY DOCUMENTS.

KEY NOTES **B**



01.08.16

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CONTRACT DATE: 11.05.15
 BUILDING TYPE: LIVE MAS-Medium 40
 PLAN VERSION: REV P ~ NOV '15
 SITE NUMBER:
 STORE NUMBER:

TACO BELL
 770 National Road
 Wheeling, WV 26003

TACO BELL
LIVE MAS
 MEDIUM 40
SITE PHOTOMETRIC PLAN

E1.1

PERMIT PLOT DATE:

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP POLE	TRIP PHASE	TRIP ROLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C						A	B	C					
D-1	#12	3 #12	W-053	WALK-IN COOLER	M	1621			20	A	-	-	0			-	-	-	D-2		
D-3	-	-	-	-	M		1621		-	B	1	20	0			-	-	-	D-4		
D-5	-	-	-	-	M			1621	-	C	1	20	0			-	-	-	D-6		
D-7	#10	3 #10	W-053	WALK-IN FREEZER	M	1321			15	A	1	20	500			M	F-131	#2 #12	#12	D-8	
D-9	-	-	-	-	M		1321		-	B	1	15	264			M	S-513	2 #12	#12	D-10	
D-11	-	-	-	-	M			1321	-	C	1	20		1306		M	S-513	2 #10	#10	D-12	
D-13	-	-	-	SPARE	-	0			20	A	2		1306			M	-	-	-	D-14	
D-15	-	-	-	SPARE	-	0			20	B	2		1306			M	S-513	2 #10	#10	D-16	
D-17	-	-	-	SPARE	-	0			20	C	2		1306			M	-	-	-	D-18	
D-19	#12	2 #12	N-043	POWER SOAK	K	1169			15	A	1	15	700			H	E-275	2 #12	#12	D-20	
D-21	-	-	-	-	K		1169		-	B	-	-	0			-	-	-	D-22		
D-23	#12	2 #12	E-275	HOOD FIRE SUPPRESSION SYSTEM (1)	M			720	20	C	-	-	0			-	-	-	D-24		
D-25	#12	2 #12	-	IRRIGATION TIMER	M	360			20	A	1	20	1800			M	-	2 #12	#12	D-26	
D-27	#12	2 #12	-	ROOF RECEPTACLES	M		540		20	B	1	20	1180			H	E-275	2 #12	#12	D-28	
D-29	#12	2 #12	B-223	WATER HEATER IGNITION	M			180	20	C	-	-	0			-	-	-	D-30		
D-31	#8	3 #4	-	RTU-1	H	5122			50	A	-	-	0			-	-	-	D-32		
D-33	-	-	-	-	H		5122		-	B	1	20	540			M	-	2 #12	#12	D-34	
D-35	-	-	-	-	H			5122	-	C	-	-	0			-	-	-	D-36		
D-37	#8	3 #3	-	RTU-2	H	8880			80	A	1	20	1120			M	-	2 #12	#12	D-38	
D-39	-	-	-	-	H		8880		-	B	3	30	3120			K	S-737	2 #10	#10	D-40	
D-41	-	-	-	-	H			8880	-	C	2		3120			K	-	-	-	D-42	
						18473	18653	17844				5426	6410	5732							

WATTS: BUS A 23899
 BUS B 25063
 BUS C 23576
 TOTAL 72538

HVAC EQUIPMENT = 43886 W
 KITCHEN EQUIPMENT = 5576 W
 OTHER LOADS (MISC.) = 20074 W
 LIGHTING = 0 x 1.25 = 0 W
 TOTAL LOAD = 69536 W
 TOTAL CURRENT = 193 A

PANEL D ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 400A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 400A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 22KAIC CIRCUIT BREAKERS

PANEL D

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP POLE	TRIP PHASE	TRIP ROLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C						A	B	C					
A-1	#12	2 #12	S-285	BEVERAGE DISPENSER D/T	K	420			20	A	1	20	1780			K	S-546	2 #12	#12	A-2	
A-3	#12	2 #12	S-284	BEVERAGE DISPENSER S/S	K		480		20	B	1	20	1200			M	U-100	2 #12	#12	A-4	
A-5	#12	2 #12	R-009	FULL HEIGHT FREEZER	K			1080	20	C	1	20		360		M	F-171	2 #12	#12	A-6	
A-7	-	-	-	SHUNT TRIP BREAKER	-	-	-	-	20	A	1	20	864			K	S-570	2 #12	#12	A-8	
A-9	#10	2 #10	P-452	HOT WATER DISPENSER	K		2013		30	B	1	20	1200			M	U-100	2 #12	#12	A-10	
A-11	-	-	-	-	K			2013	-	C	-	-	0			-	-	-	A-12		
A-13	#12	2 #12	S-005	HEATED CABINET	K	1920			20	A	1	20	600			M	U-035	2 #12	#12	A-14	
A-15	#12	2 #12	F-040	OFFICE COMPUTER	M		300		20	B	1	20	1200			M	U-100	2 #12	#12	A-16	
A-17	#12	2 #12	U-052	OFFICE SECURITY SYSTEM (1)	M			300	20	C	1	20		360		M	U-024	2 #12	#12	A-18	
A-19	#12	2 #12	-	OFFICE RECEPTACLES	M	540			20	A	1	20	864			K	S-570	2 #12	#12	A-20	
A-21	#12	2 #12	L-090	ORDER CONFIRMATION BOARD/SWITCH BOX	M		130		20	B	1	20	480			M	U-024	2 #12	#12	A-22	
A-23	#12	2 #12	-	SPACE	M			0	20	A	1	20		360		K	C-107	2 #12	#12	A-24	
A-25	#12	2 #12	S-540	PEPSI BOOSTER TANK/CO2 MONITOR	M	540			20	A	1	20				-	-	-	A-26		
A-27	-	-	-	SPACE	-	0			-	B	1	20	420			M	C-400	2 #12	#12	A-28	
A-29	-	-	-	SPACE	-	0		0	-	C	1	20				-	-	-	A-30		
A-31	-	-	-	SPACE	-	0			20	A	1	20	180			M	U-238	2 #12	#12	A-32	
A-33	-	-	-	SPACE	-	0			20	B	1	20	864			M	S-204	2 #12	#12	A-34	
A-35	#10	2 #10	P-452	HOT WATER DISPENSER	K			2013	30	C	1	15	1425			K	S-547	2 #12	#12	A-36	
A-37	-	-	-	-	K	2013			-	A	1	20				-	-	-	A-38		
A-39	-	-	-	-	-	0			20	B	1	20		816		K	C-046	2 #12	#12	A-40	
A-41	#12	2 #12	S-004	HEATED CABINET	K		1920		20	C	-	-				-	-	-	A-42		
						5433	2923	7326				4288	6180	2505							

WATTS: BUS A 9721
 BUS B 9103
 BUS C 9831
 TOTAL 28655

KITCHEN EQUIPMENT = 19981 x .65 = 12988 W
 OTHER LOADS (MISC.) = 8674 W
 TOTAL LOAD = 21662 W
 TOTAL CURRENT = 60 A

PANEL A ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 225A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 225A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 10KAIC CIRCUIT BREAKERS

KITCHEN EQUIPMENT PANEL A

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP POLE	TRIP PHASE	TRIP ROLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C						A	B	C					
B-1	#12	2 #12	-	KITCHEN LIGHTS (5)	L	480			20	A	1	20	0			-	-	-	B-2		
B-3	-	-	-	SPACE	H		0		20	B	1	20	360			L	-	2 #12	#12	B-4	
B-5	#12	2 #12	-	COOLER/FREEZER LIGHTS (5)	L			800	20	C	1	20	0			-	-	-	B-6		
B-7	-	-	-	SPACE	M	0			20	A	1	20	1076			L	-	2 #10	#10	B-8	
B-9	#10	2 #10	-	OUTSIDE LIGHTS (2)	L		658		20	B	-	-	0			-	-	-	B-10		
B-11	-	-	-	SPACE	-			0	20	C	-	-	0			-	-	-	B-12		
B-13	-	-	-	SPACE	-	0			20	A	-	-	0			-	-	-	B-14		
B-15	#10	2 #10	-	MENU BOARD @ D/T (2)	L		500		20	B	1	20	0			-	-	-	B-16		
B-17	-	-	-	SPACE	-			0	20	C	1	20	1600			L	-	2 #10	#10	B-18	
B-19	#12	2 #12	-	SHOW WINDOW	L	1200			20	A	1	20	1500			L	-	2 #12	#12	B-20	
B-21	#12	2 #12	-	SHOW WINDOW	L		1200		20	B	1	20	1500			L	-	2 #12	#12	B-22	
B-23	#12	2 #12	-	SHOW WINDOW	L			1200	20	C	-	-	0			-	-	-	B-24		
B-25	#12	2 #12	-	SHOW WINDOW	L	1200			20	A	-	-	0			-	-	-	B-26		
B-27	#10	2 #10	-	BUILDING SIGNS (2)	L		1200		20	B	1	20	0			-	-	-	B-28		
B-29	#10	2 #10	-	PYLON SIGN (2)	L			1200	20	C	1	20	0			-	-	-	B-30		
B-31	#10	2 #10	-	DIRECTIONAL SIGNS (2) OPTIONAL	L	1200			20	A	-	-	0			-	-	-	B-32		
B-33	#12	2 #12	-	LIGHTING CONTROLS (1)	M		500		20	B	-	-	0			-	-	-	B-34		
B-35	#10	2 #10	-	BUILDING SIGNS (2)	L			360	20	C	-	-	0			-	-	-	B-36		
B-37	-	-	-	SPACE	-	0			20	A	-	-	0			-	-	-	B-38		
B-39	-	-	-	SPACE	-	0			20	B	-	-	0			-	-	-	B-40		
B-41	#10	2 #10	-	BUILDING SIGNS (2)	L			1200	20	C	-	-	0			-	-	-	B-42		
						4080	4058	4760				2576	1860	1600							

WATTS: BUS A 6656
 BUS B 5918
 BUS C 6360
 TOTAL 18934

LIGHTING = 18434 x 1.25 = 23043 W
 OTHER LOADS (MISC.) = 500 W
 TOTAL LOAD = 23543 W
 TOTAL CURRENT = 65 A

PANEL B ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 225A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 225A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 10KAIC CIRCUIT BREAKERS

NOT USED H

PANEL	LIGHTING (W) **	KITCHEN EQUIP. (W) ***	HVAC (W)	MISCELLANEOUS (W)	CONNECTED LOAD	DEMAND LOAD (W)
A	-	12988	-	8674	28655	21662
B	18434	-	-	500	18934	23543
EQUIP. CABINET	-	47664	-	2400	50064	33382
D	-	* 5576	43886	20074	72538	69536
TOTAL	18434	66228	43886	31648	170191	148123

* 8570 x 0.65 = 5576
 148123W @ 120/208V, 3Ø-4W = 411 A
 LARGEST MOTOR LOAD = 2379 W

LOAD KEY LEGEND		APPLICABLE FACTOR
L	LIGHTING	125% **
K	KITCHEN EQUIPMENT	65% ***
H	HVAC	100%
M	MISC. EQUIPMENT	100%

***KITCHEN EQUIPMENT DEMAND FACTORS PER NEC 2011 SECTION 220.56 ALLOWS FOR PERCENTAGES WITHIN EACH PANEL ACCORDING TO THE FOLLOWING EQUIPMENT QUANTITIES:
 1 - 100%; 2 - 100%; 3 - 90%; 4 - 80%; 5 - 70%; 6 AND OVER - 65%.
 THESE PERCENTAGES DO NOT CARRY OVER INTO THE LOAD SUMMARY, WHICH IS CALCULATED AT 65% REGARDLESS.

LOAD SUMMARY & LEGEND

NOT USED

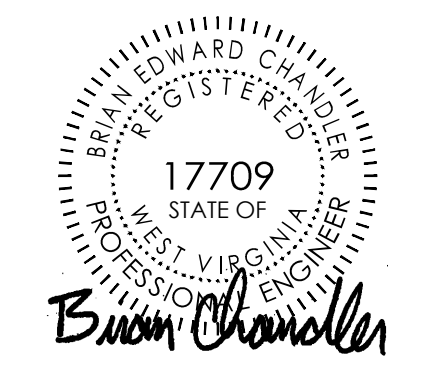
LOAD SUMMARY & LEGEND

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP POLE	TRIP PHASE	TRIP ROLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C						A	B	C					
B-1	#12	2 #12	-	KITCHEN LIGHTS (5)	L	480			20	A	1	20	0			-	-	-	B-2		
B-3	-	-	-	SPACE	H		0		20	B	1	20	360			L	-	2 #12	#12	B-4	
B-5	#12	2 #12	-	COOLER/FREEZER LIGHTS (5)	L			800	20	C	1	20	0			-	-	-	B-6		
B-7	-	-	-	SPACE	M	0			20	A	1	20	1076			L	-	2 #10	#10	B-8	

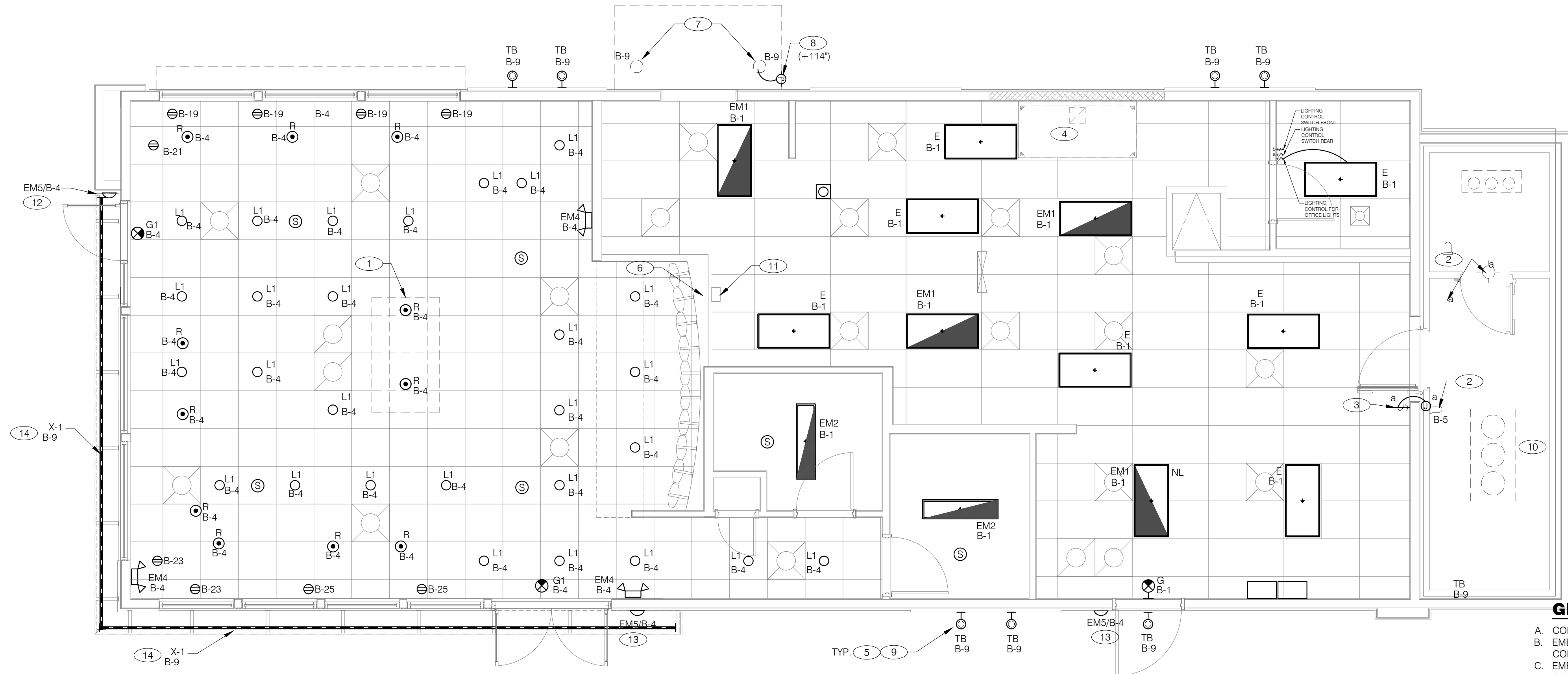
ENGINEER:

BRIAN EDWARD CHANDLER, PE

1431 GREENWAY DRIVE
 SUITE 510
 IRVING, TX 75038
 PHONE: 972.870.1288
 E-MAIL: bchandler@idstudio4.com



01.08.16



GENERAL NOTES

- A. CONFIRM LIGHTING FIXTURE QUANTITIES WITH SUPPLIER.
- B. EMERGENCY AND NORMAL LIGHTING MARKED WITH 'NL' SUBSCRIPT SHALL OPERATE CONTINUOUSLY. PROVIDE UNSWITCHED HOT TO NORMAL AND EMERGENCY BALLAST.
- C. EMERGENCY LIGHTING NOT MARKED WITH 'NL' SUBSCRIPT SHALL OPERATE UNDER CONTROL OF LIGHTING SWITCH AS INDICATED. PROVIDE UNSWITCHED CONSTANT HOT TO EMERGENCY BALLAST AND SWITCHED HOT TO NORMAL BALLAST.
- D. ALL CONDUITS ENTERING OR LEAVING COOLER/FREEZER SHALL BE PROVIDED WITH SEAL-OFF FITTING WITH COMPOUND PER NEC 300-17a).
- E. ALL INTERIOR LIGHTING CIRCUITS TO BE WIRED THRU THE LIGHTING CONTROL RELAYS. SEE 2/E6.0
- F. ALL INTERIOR LIGHTING SHOWN DOWNSTREAM OF PHOTOCELLS SHALL BE WIRED AS SHOWN. SEE 2/E6.0 FOR CLARIFICATION.
- G. CONTRACTOR TO FIELD VERIFY CEILING TYPE AND PROVIDE PROPER MOUNTING HARDWARE.
- H. ALL FIXTURES SUPPLIED WITH LAMPS.

LIGHTING PLAN 1/4"=1'-0" **A**

CONTRACT DATE: 11.05.15
 BUILDING TYPE: LIVE MAS-Medium 40
 PLAN VERSION: REV P ~ NOV '15
 SITE NUMBER:
 STORE NUMBER:

NO.	QTY	LOCATION	MFR / CATALOG NUMBER	DESCRIPTION	#	LAMP TYPE	BALLAST TYPE	MOUNTING		VOLT	WATT	REMARKS
								TYPE	HT.			
E	7	KITCHEN & OFFICE	ACCU-SERV #E52800443 #2TL4-46L-FW-SWL-D50-LP850-NX-NAEYB	2x4 T-GRID LED TROFFER	-	LED	NA	RECESSED GRID		120	50	
EM1	4	KITCHEN & OFFICE	ACCU-SERV #E52800444 #2TL4-46L-FW-SWL-D50-LP850-NX-EL14L-NAEYB	2x4 T-GRID LED TROFFER	-	LED	NA	RECESSED GRID		120	50	SAME AS E WITH BATTERY BACK-UP
E2	0	RESTROOM	ACCU-SERV #E52800437 #TL4-43L-FW-SWL-D46-LP830-NX-NAEYB	1x4 LED TROFFER	-	LED	NA	RECESSED FLANGE		120	46	W/ DRYWALL GRID ADAPTER DGA14, E52800535
EM2	2	RESTROOM	ACCU-SERV #E52800438 #TL4-43L-FW-SWL-D46-LP830-NX-EL14L-NAEYB	1x4 LED TROFFER	-	LED	NA	RECESSED FLANGE		120	46	W/ DRYWALL GRID ADAPTER DGA14, E52800535 W/ BATTERY BACK-UP
EM4	3	DINING	ACCU-SERV #E52800145 #CAX6	EMERGENCY LIGHT FROG EYE	2		NA	WALL	TOP @ 9'-4" U.O.N.	120	3	UNSWITCHED HOT
G	1	KITCHEN	ACCU-SERV #52801118 #EZXTU2RWEM	EXIT SIGN LED UNIVERSAL MOUNT LED	-		NA	WALL		120	4	
G1	2	DINING	ACCU-SERV #52801118 #EZXTU2RWEM	EXIT SIGN LED UNIVERSAL MOUNT LED	-		C	CEILING		120	4	PENDANT MOUNT FIXTURE +9' A.F.F. TO BOTTOM

BALLAST LEGEND

- A. 20THD ELECTRONIC T8 THERMALLY PROTECTED C.B.M. APPROVED CLASS P
- B. 90 MINUTE EM PRODUCING 350-450 LUMENS
- C. 10 THD ELECTRONIC CLASS B CONSUMER END OF LIFE PROTECTED
- D. F CAN 100W METAL HALIDE HPF 60HZ
- E. 100W PRESSURE SODIUM HPF
- F. 100W METAL HALIDE HPF

NO.	QUANTITY	LOCATION	MFR / CATALOG NUMBER	DESCRIPTION	#	LAMP TYPE	BALLAST TYPE	MOUNTING		VOLT	WATT	REMARKS
								TYPE	HT.			
L1	28	DINING	ACCU-SERV #E52800412 #00395-016-RC6-C16FB	DOWNLIGHT LED RECESSED	1	LED	NA	RECESSED DROP CLG	BOT @ 9'-4" A.F.F.	120	10.5	
R	11	DINING	ACCU-SERV #E52801278 BES00298-052	OPAL GLASS PENDANT	1	11W LED A19 LAMP	NA	PENDANT	6'-0" A.F.F.	120	11	LAMP (60W) EQ WARM WHITE (2700K) LED
TB	8	EXTERIOR WALL	ACCU-SERV #E52809190 05247-051 / 052	WALL SCONCE, CUSTOM DARK BRONZE FINISH	2	18W PAR38 LED 18W	F	WALL	CENTER OF BRACKET AT 9'-2" A.F.F.	120	36	ALIGN BOTTOM OF FIXTURE'S MOUNTING BRACKET WITH CHANGE IN EIFS THICKNESS
TC	8	EXTERIOR WALL (LED OPTION)	HI LITE H-ATB-23-L	GOOSENECK LIGHT	1	LED	NA	WALL	CENTER OF BRACKET AT 14'-0" A.F.F.	120	31	
X1	VERIFY	EXTERIOR SLAT WALL	AGILIGHT #LA-APEX-66K-G2	LED STRIP LIGHT	1	LED	WALL			120	3.28/FT	BY SIGN VENDOR
A	4 (VERIFY)	SITE POLE	US ARCHITECTURAL RZR-G-PLD-IV-120LED-1050mA NW-DBM/SNTS-25-4-111-1-DBM	1 FXTR. POLE MOUNTED DARK BRONZE FINISHED	1	LED 400W	NA	POLE	25'-0"	120	400	SEE CIVIL PLANS FOR POLE DETAILS

BALLAST LEGEND

- A. 20THD ELECTRONIC T8 THERMALLY PROTECTED C.B.M. APPROVED CLASS P
- B. 90 MINUTE EM PRODUCING 350-450 LUMENS
- C. 10 THD ELECTRONIC CLASS B CONSUMER END OF LIFE PROTECTED
- D. F CAN 100W METAL HALIDE HPF 60HZ
- E. 100W PRESSURE SODIUM HPF
- F. 100W METAL HALIDE HPF

LIGHTING FIXTURE SCHEDULE **C**

- 1 PRE-FABRICATED & PRE-FINISHED SOFFIT. REFER TO A7.1 FOR SPECIFICS. (OPTIONAL).
- 2 FOR LIGHTING FIXTURES, CONDUIT, CONDUCTORS AND INSTALLATION RESPONSIBILITIES, REFER TO SCOPE OF WORK.
- 3 FIXTURE AND SWITCH FACTORY INSTALLED WITH UNIT. G.C. TO COMPLETE CIRCUITING.
- 4 EXHAUST HOOD LIGHT FIXTURES SUPPLIED WITH HOOD AND MTD IN PRE-WIRED J-BOX. COMPLETE CIRCUITING PER DETAIL 2/E6.0.
- 5 COORD. J-BOX LOCATION WITH WOOD FRAMING SO IT REMAINS CONCEALED BEHIND FIXTURE. VERIFY MOUNTING HEIGHT WITH ARCH. DWGS.
- 6 OUTLET FOR MENU BOARD. SEE SHEET E3.0. VERIFY POINT OF CONNECTION. 10 LIGHT PANELS WIRED IN SERIES. G.C. TO MAKE FINAL CONNECTION.
- 7 CANOPY DOWN LIGHTS FURNISHED WITH CANOPY. G.C. TO MAKE FINAL CONNECTION.
- 8 J-BOX FOR CANOPY LIGHTS. VERIFY POINT OF CONNECTION. WIRE VIA EXTERIOR LIGHTING CONTACTOR.
- 9 REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS ON A4.0 AMD A4.1 FOR DIMENSIONED LOCATION OF FIXTURE.
- 10 SEAL ALL ELECTRICAL CONDUITS INTO THE WALK-IN COOLER. SEE DETAIL 6/E3.1
- 11 ALERT LIGHT - ONLY APPLIES WHEN A GEN IV POWER SOAK IS USED. DISREGARD IF GEN III POWER SOAK IS USED. SEE SHEET E3.0 FOR POWER REQUIREMENTS.
- 12 MOUNT 'EM5' AT 8'-6" A.F.F. TO CENTER OF FIXTURE.
- 13 MOUNT 'EM5' AT 8'-0" A.F.F. TO CENTER OF FIXTURE.
- 14 REFER TO E3.2 FOR POWER TO FIXTURE 'X1'.

KEY NOTES **B**

TACO BELL
 770 National Road
 Wheeling, WV 26003



LIGHTING PLAN AND SCHEDULE
E4.0

PERMIT PLOT DATE:

Taco Bell Interlock Control Box

The intent of the Control Box is to activate or deactivate the following:

- Kitchen Lighting
- Exhaust hood exhaust fan
- Exhaust hood lighting
- Make up air / replacement air fan
- Rest room / cook line exhaust fan
- Dining room lighting

Sequence of Operation

Occupied Mode
A Team Member turns on the kitchen lights by flipping a wall switch "up" in the manager's office, placing the kitchen in "Occupied" mode. The switch is installed inverted in the office so that the normal action of flipping the switch up breaks power to the lighting contactor in the Control Box. The contacts in the lighting contactor revert to their normally closed position. This allows power to proceed to the following:

- The restroom and cook line exhaust fan marked "EF-2"
- A light switch in the manager's office for the dining room lights
- The kitchen and rest room lights
- A timer relay for the exhaust hood motor starter marked "EF-1" and a relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

The timer relay for the exhaust hood motor starter immediately activates motor starter EF-1 and relay R1. When activated, motor starter EF-1 contacts close providing power to the exhaust hood exhaust fan. It also closes auxiliary contacts that turn on the exhaust hood lights. Activation of relay R1 causes the contacts for RTU 1 and RTU 2 to close, returning 24 volts to the evaporator fan controller of each respective unit.

Unoccupied Mode

A Team Member turns off the kitchen lights by flipping a wall switch "down" in the manager's office, placing the kitchen in "Unoccupied" mode. The switch is installed inverted in the office so that the normal action of flipping the switch down provides power to the lighting contactor in the Control Box. The contacts in the lighting contactor open from their normally closed position. This breaks power to the following:

- The restroom and cook line exhaust fan marked "EF-2"
- A light switch in the manager's office for the dining room lights
- The kitchen and rest room lights
- Control power to timer relay for the exhaust hood motor starter marked "EF-1" and a relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2.

The timer relay for the exhaust hood motor starter continues power to motor starter EF-1 and the relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2 for fifteen minutes after the loss of power to the timer. Motor starter EF-1 continues to provide power to the exhaust hood exhaust fan. It also keeps closed the auxiliary contacts that turn on the exhaust hood lights. Power also continues to relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. After fifteen minutes without power to the timer, the timer opens contacts to EF-1 motor starter, the auxiliary hood lighting contacts and relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. This drops power to the exhaust fan and the hood lights. Relay R1 opens its contacts interrupting the 24 volts returned to RTU 1 and RTU 2 evaporator fan controllers. RTU 1 and RTU 2 evaporator fans may continue to operate if their respective zone controllers are calling for evaporator fan operation.

In the event of a rise in temperature above 85 degrees in the exhaust hood, control voltage will be sent to the timer relay for the exhaust hood motor starter which will immediately activate motor starter EF-1 and relay R1. When activated, motor starter EF-1 contacts close providing power to the exhaust hood exhaust fan. It also closes auxiliary contacts that turn on the exhaust hood lights. Upon activation of relay R1, the contacts for RTU 1 and RTU 2 close, returning 24 volts to the evaporator fan controller of each unit.

When in Unoccupied mode and upon a drop in temperature below 85 degrees in the exhaust hood, control voltage to the timer delay is dropped however the timer relay for the exhaust hood motor starter continues power to motor starter EF-1 and the relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2 for fifteen minutes after the loss of control power to the timer. Motor starter EF-1 continues to provide power to the exhaust hood exhaust fan. It also keeps closed the auxiliary contacts that turn on the exhaust hood lights. Power also continues to relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. After fifteen minutes without power to the timer, the timer opens contacts to EF-1 motor starter, the auxiliary hood lighting contacts and relay (R1) for the make up air replacement air fan (evaporator fan) in RTU 1 and RTU 2. This drops power to the exhaust fan and the hood lights. Relay R1 opens its contacts interrupting the 24 volts returned to RTU 1 and RTU 2 evaporator fan controllers. RTU 1 and RTU 2 evaporator fans may continue to operate if their respective zone controllers are calling for evaporator fan operation.

External Operations Not Part Of The Control Box Operation But Required To Be Installed

The following operations should take place between the package units and various components:

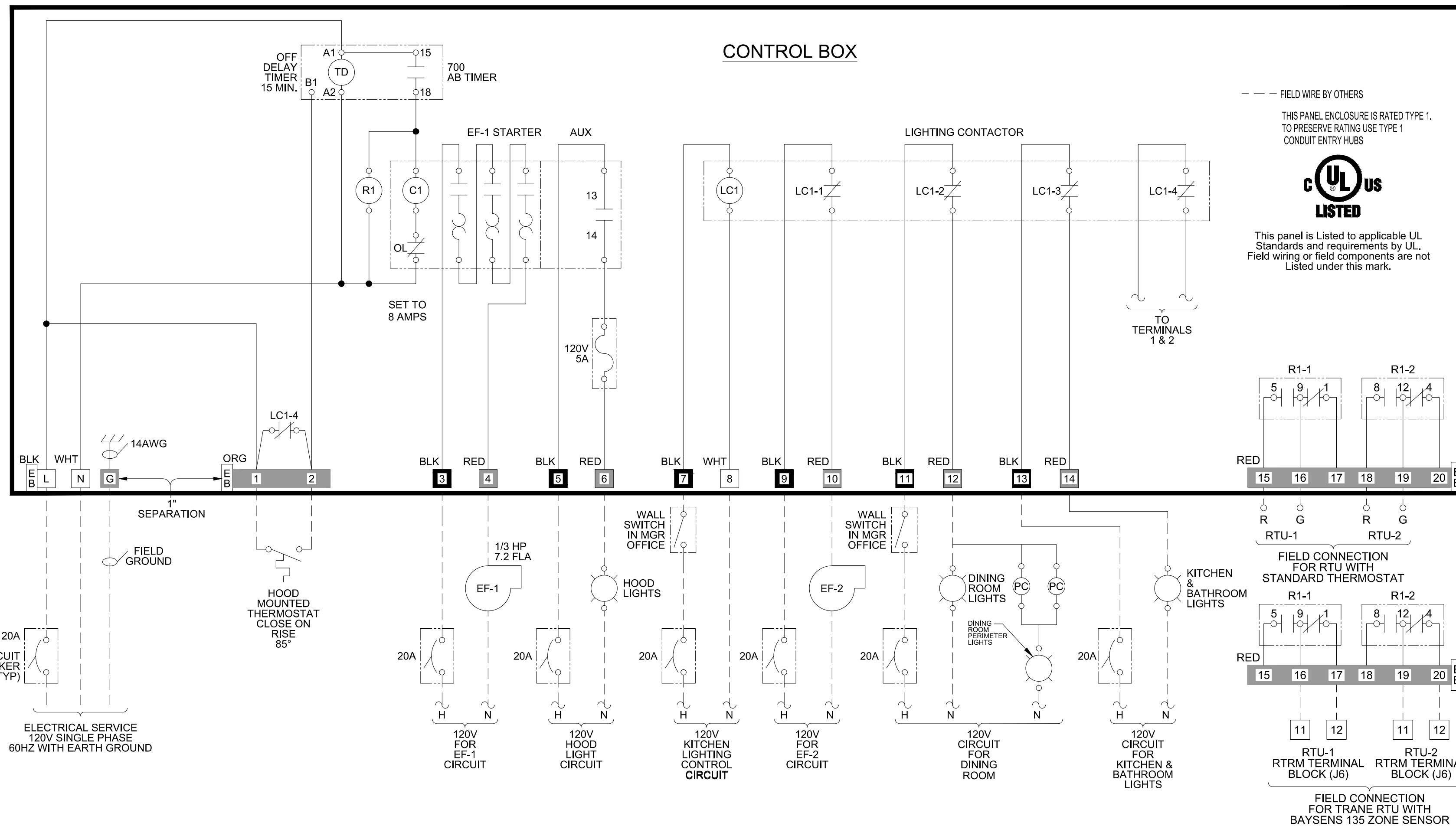
- Control voltage for RTU 2 shall pass through contacts in the fire suppression system for the exhaust hood so that RTU 2 evaporator fan shuts down upon an activation of the fire suppressant into the hood. The system shall be wired directly between the fire suppression system and RTU 2.
- A remote smoke detector system featuring testing, annunciation and remote unit reset shall be installed in the manager's office for each RTU. The system shall be wired directly between each RTU and its respective testing, annunciation and reset device.

CONTROL BOX

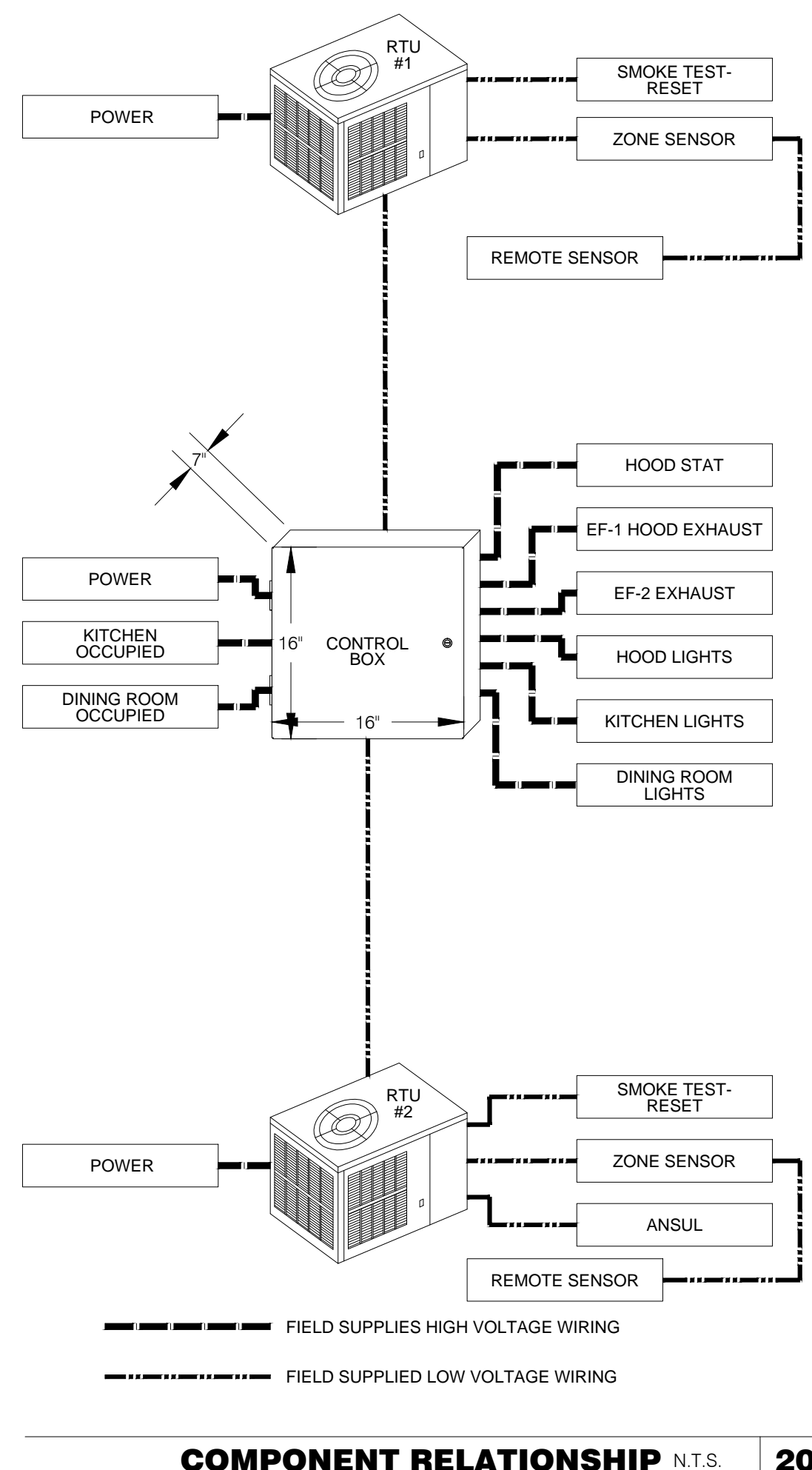
CONTROL BOX TO BE PURCHASED AND INSTALLED BY G.C. THE CONTROL BOX INCLUDES THE BOX AND ALL COMPONENTS SHOWN WITHIN THE BOX AND INTERNAL WIRING BETWEEN THE COMPONENTS.

AIR CARE EXPERTS

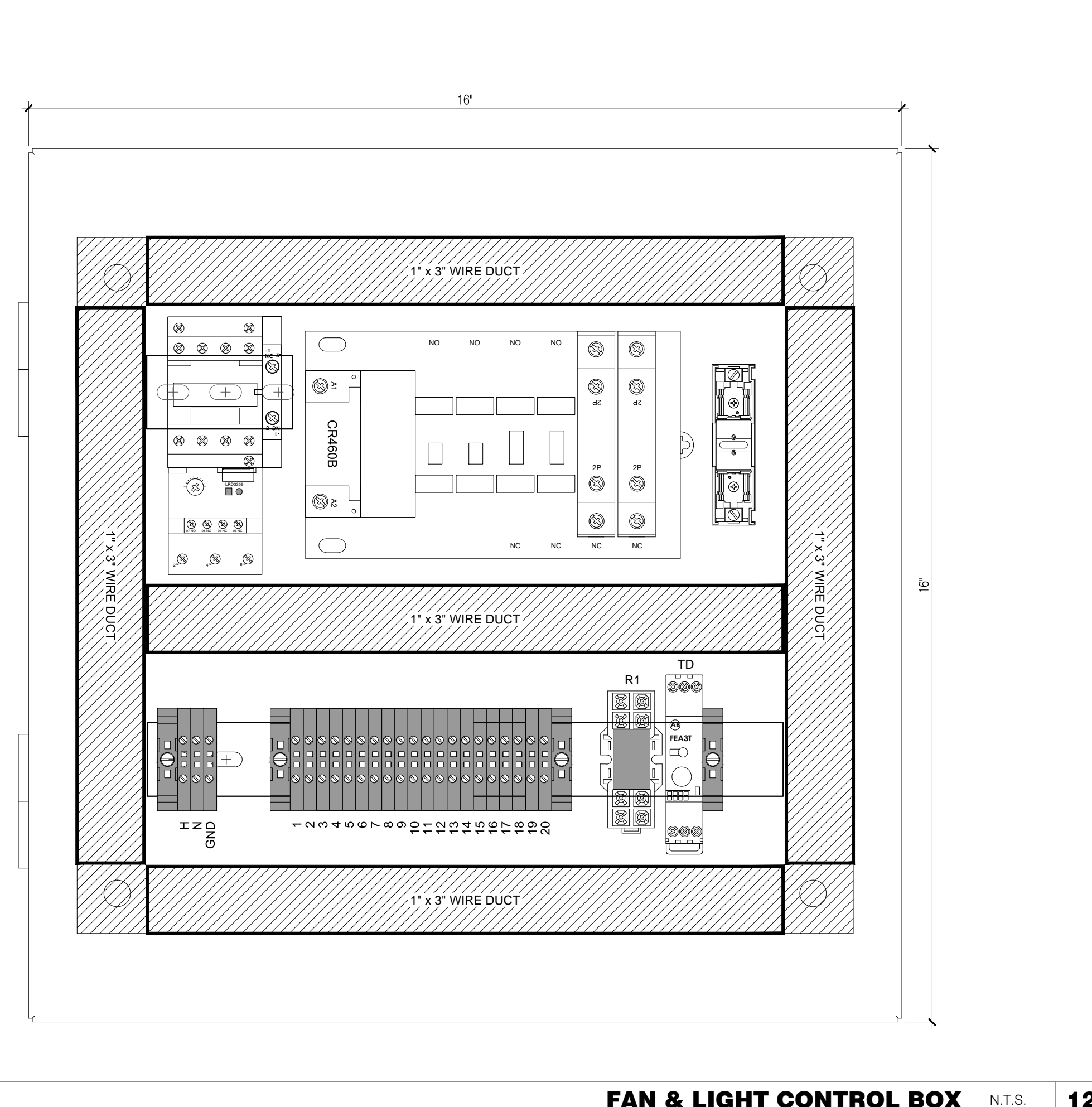
PRIMARY CONTACT: CHUCK MCCABE
PHONE: 949 770 2222
FAX: 949 770 5885
EMAIL: CMCCABE@ACE-IAQ.COM
BE PREPARED AT TIME OF ORDER OR QUOTE TO SPECIFY THE MANUFACTURER OF THE PACKAGE UNITS.



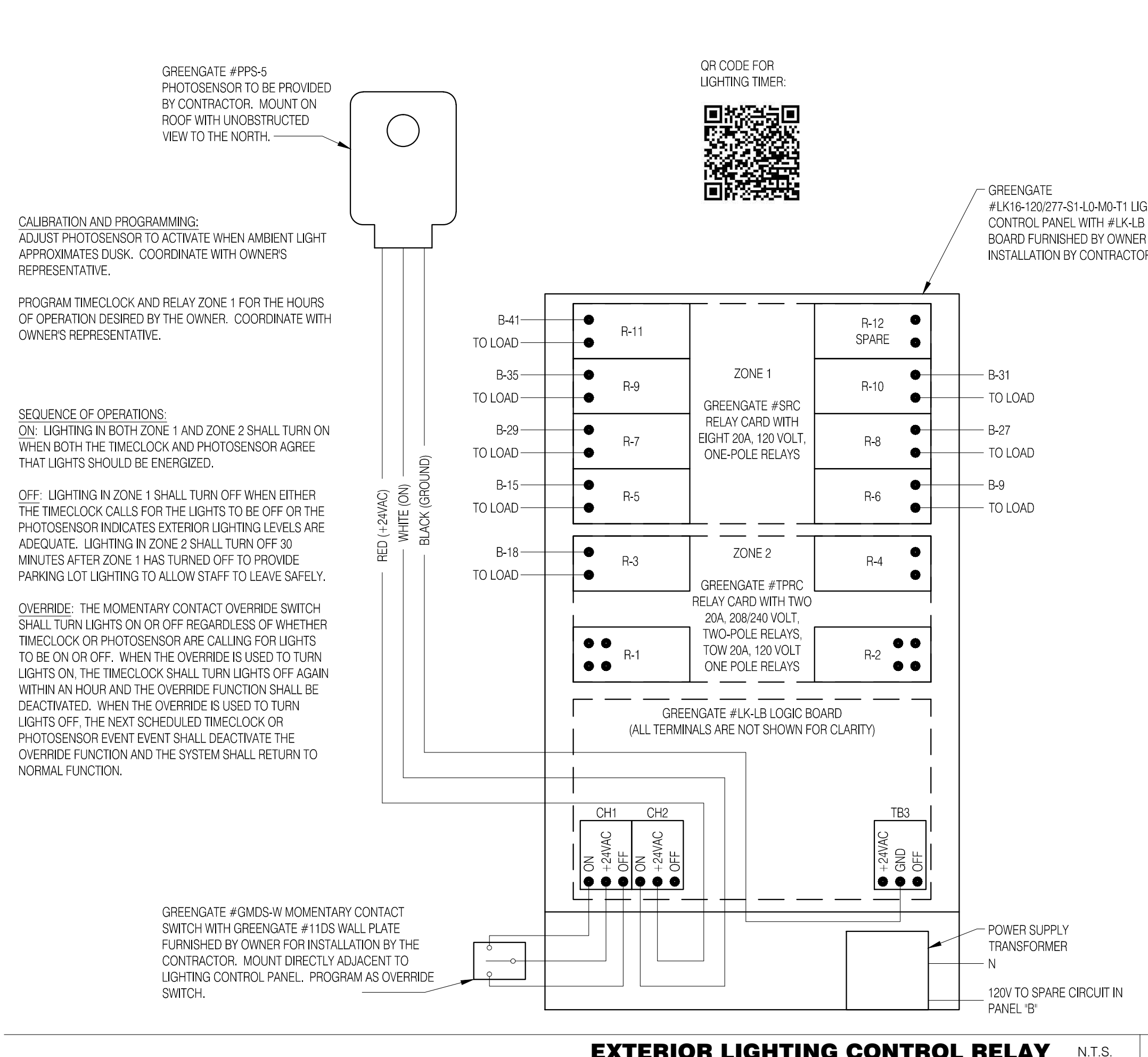
LIGHTING CONTROL RELAY (REAR) AND HOOD AND HVAC INTERLOCK DETAIL N.T.S. 2



COMPONENT RELATIONSHIP N.T.S. 20



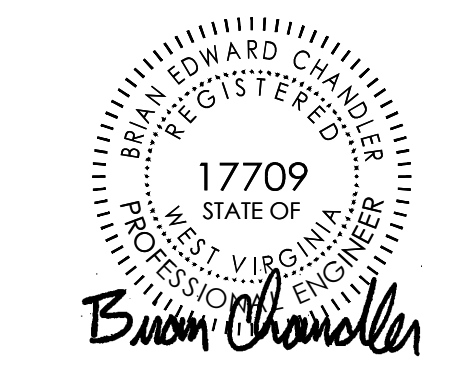
FAN & LIGHT CONTROL BOX N.T.S. 12



EXTERIOR LIGHTING CONTROL RELAY N.T.S. 4

kathleen day, architect
8535 ferry road
wayneville, oh 45068
617.331.2545
kathleendayarchitect@gmail.com

ENGINEER:
BRIAN EDWARD CHANDLER, PE
1431 GREENWAY DRIVE
SUITE 510
IRVING, TX 75038
PHONE: 972.870.1288
E-MAIL: bchandler@idstudio4.com



01.08.16

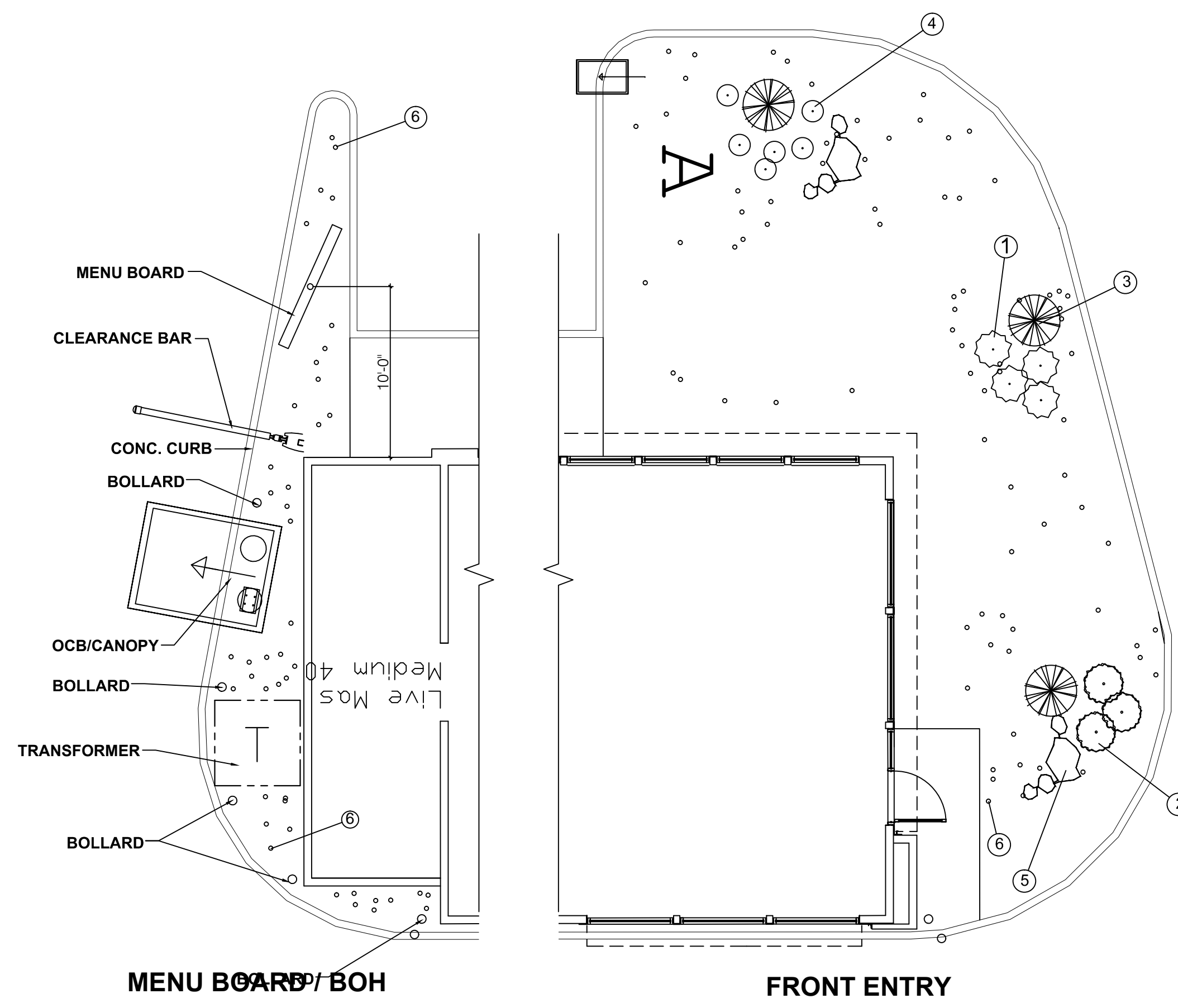
CONTRACT DATE: 11.05.15
BUILDING TYPE: LIVE MAS-Medium 40
PLAN VERSION: REV P ~ NOV '15
SITE NUMBER:
STORE NUMBER:

TACO BELL
770 National Road
Wheeling, WV 26003

LIVE MAS
MEDIUM 40

ELECTRICAL DETAILS
E6.0

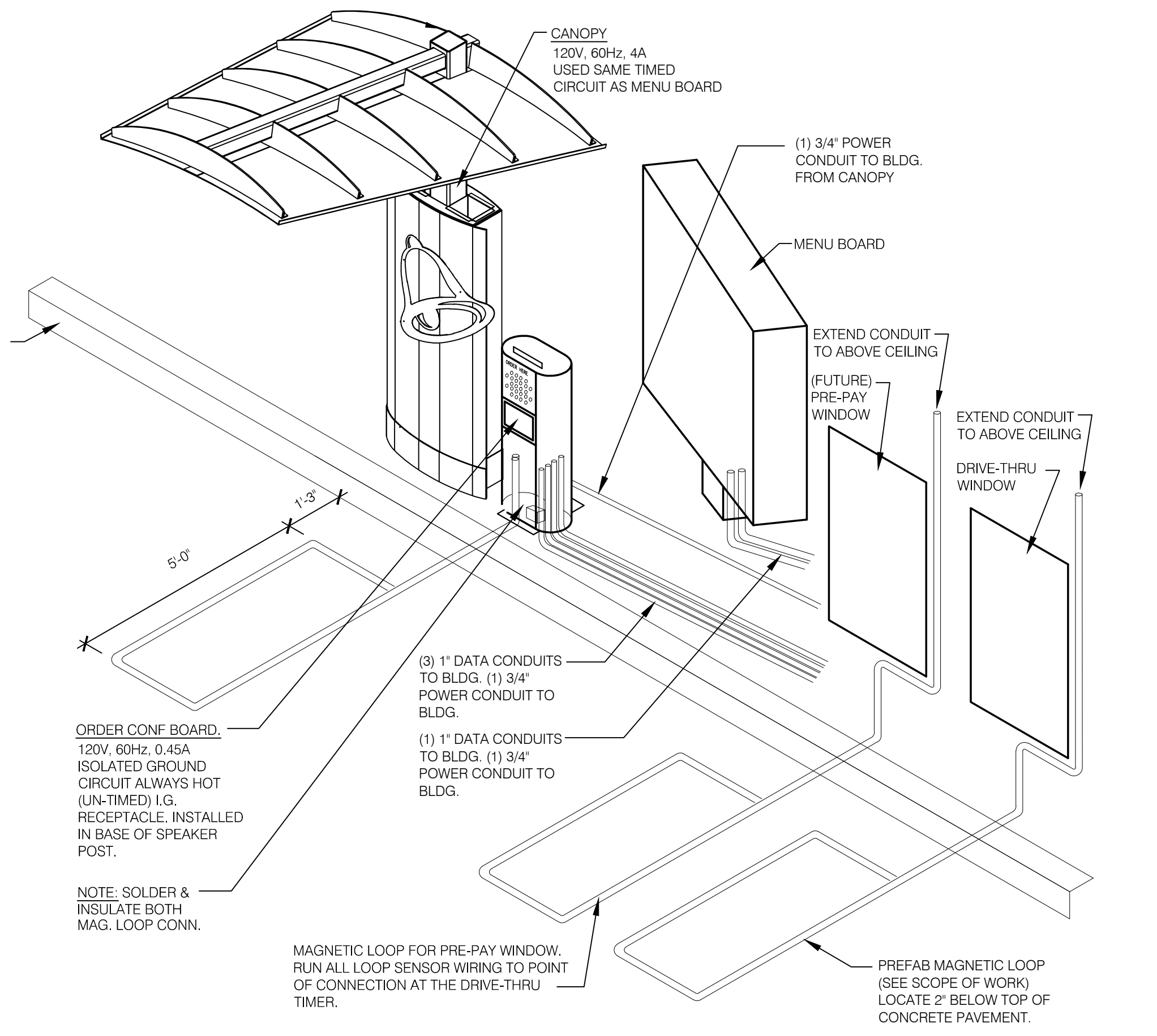
PERMIT PLOT DATE:



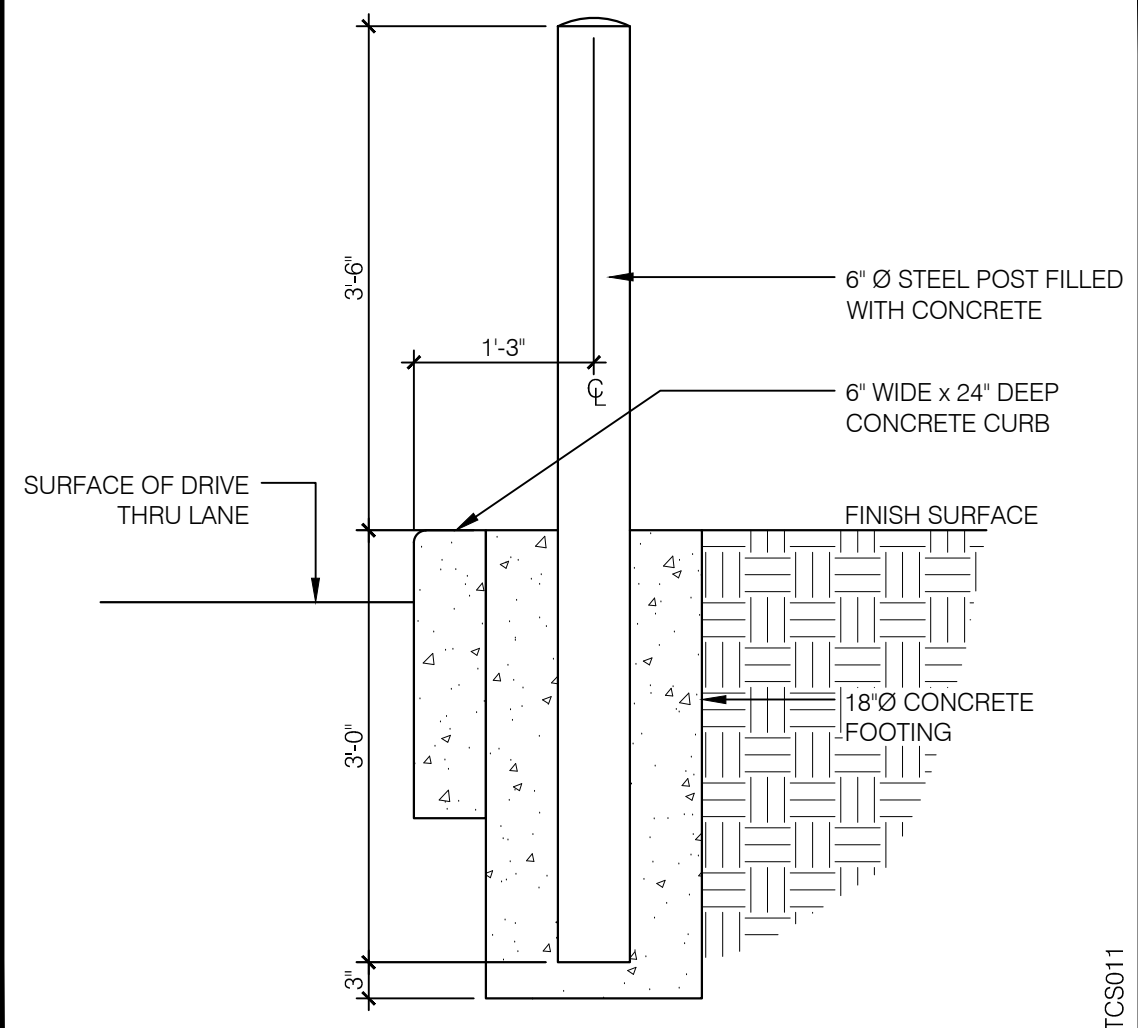
REGION 6 - NORTH

NO.	MATERIAL	QTY	SIZE	HGT.	SP
①	BLUE FESCUE FESTUCA GLAUCA	PER PLAN	3 GAL.	12"	12"
②	CRANBERRY BUSH VIBURNUM OPULUS	PER PLAN	3 GAL.	15"	15"
③	ADAM'S NEEDLE YUCCA FILAMENTOSA	PER PLAN	5 GAL.		
④	DWARF GOLDEN ARBORVITAE THUJA OCCIDENTALIS 'RHEINGOLD'	PER PLAN	5 GAL.	24"	24"
⑤	LIMESTONE BOULDER SAND-GREY - 6" TO 24"	PER PLAN	6"-24"	N/A	
⑥	GRAVEL MULCH RIVER ROCK	PER PLAN	2-3"	N/A	
⑦	STEEL EDGING	PER PLAN	N/A	3" AFG 6" BFG	N/A

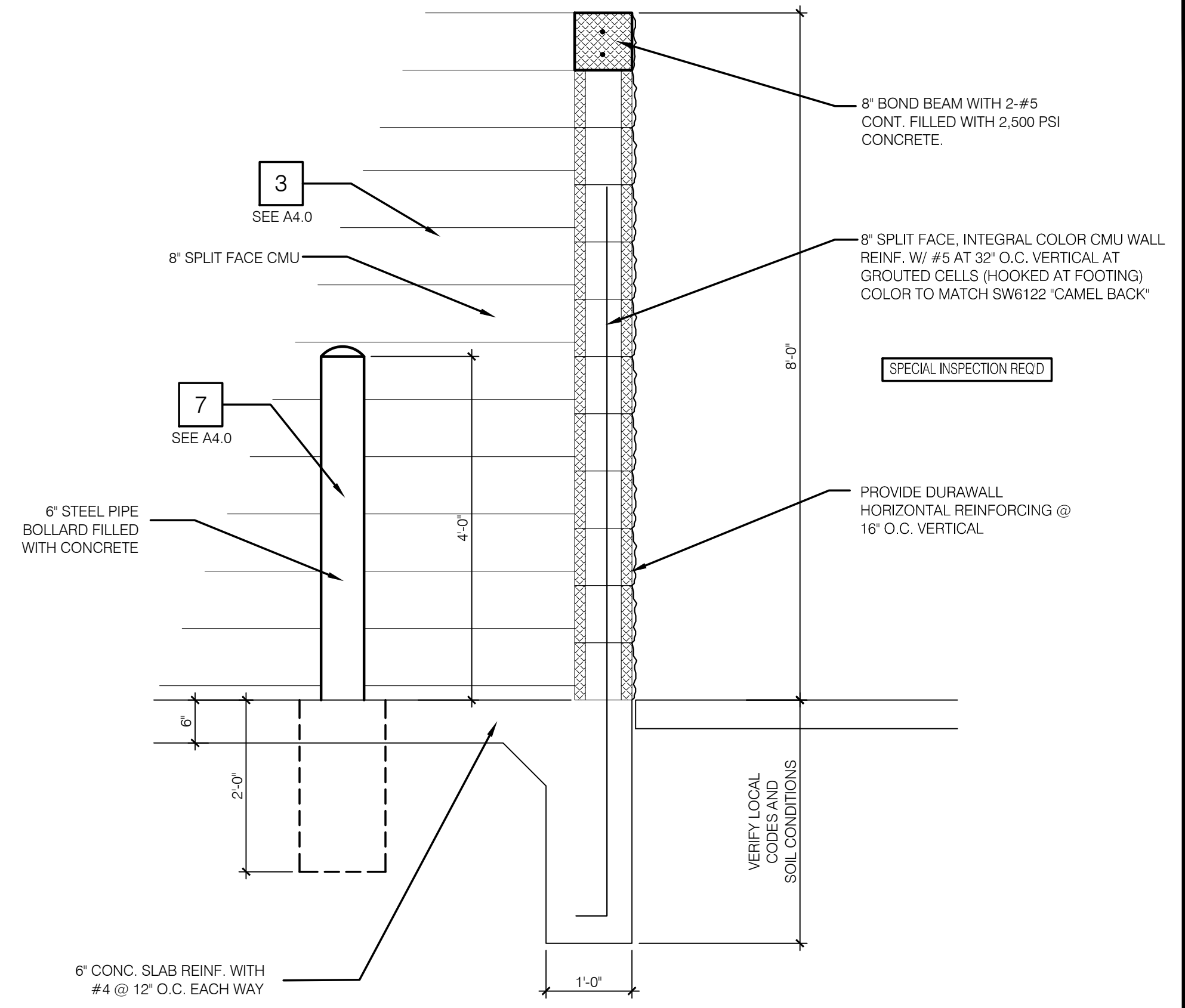
MENUBOARD LAYOUT AND LANDSCAPING 4



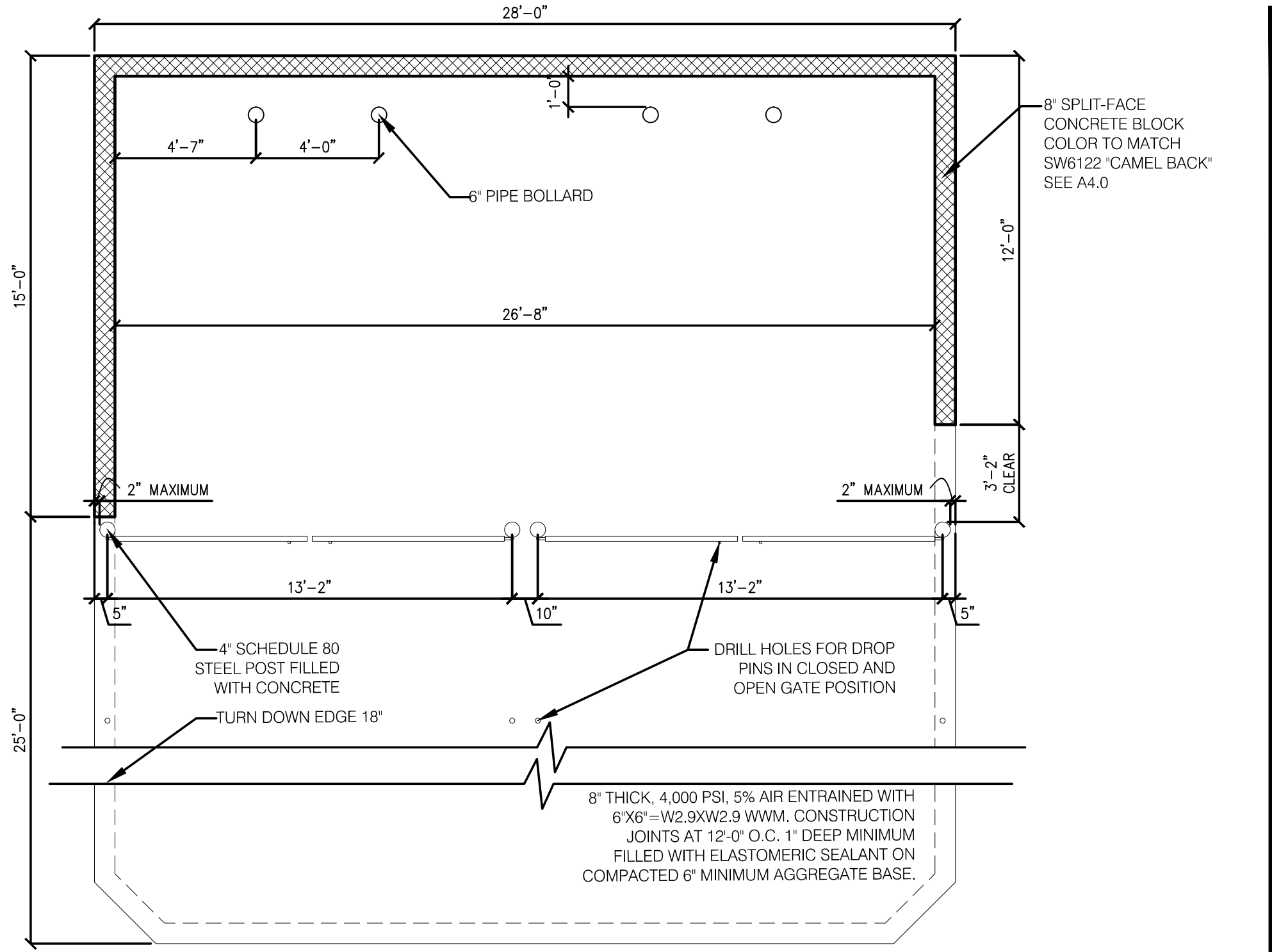
DRIVE-THRU COMMUNICATIONS ISOMETRIC N.T.S. 6



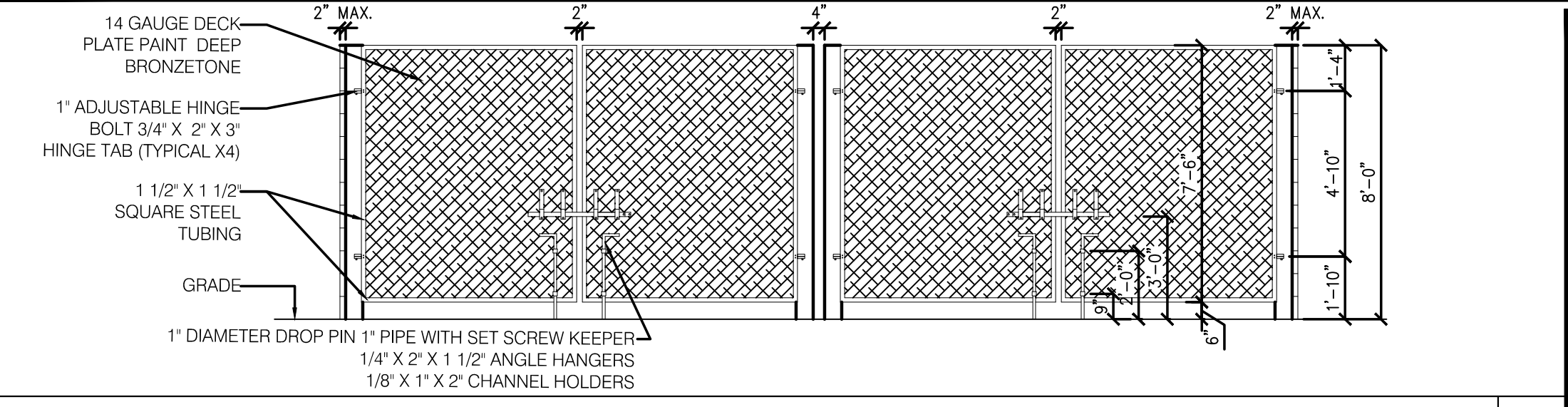
BOLLARD DETAIL 3/4" = 1'-0" 5



DUMPSTER SECTION 3/4" = 1'-0" 1

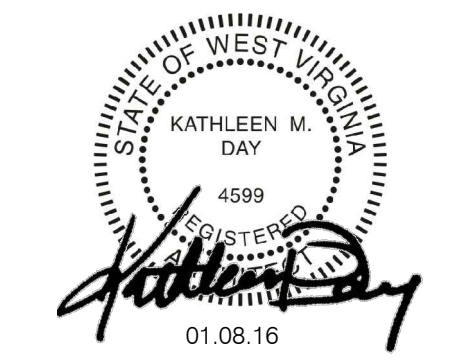


DOUBLE DUMPSTER PLAN 1/4" = 1'-0" 2



DOUBLE DUMPSTER GATE ELEVATION 1/4" = 1'-0" 3

Kathleen Day, architect
8335 ferry road
waynesville, oh 45068
617.331.2549
kathleendayarchitect@gmail.com



CONTRACT DATE: 11.05.15
BUILDING TYPE: LIVE MAS-Medium 40
PLAN VERSION: REV P ~ NOV 15
SITE NUMBER:
STORE NUMBER:

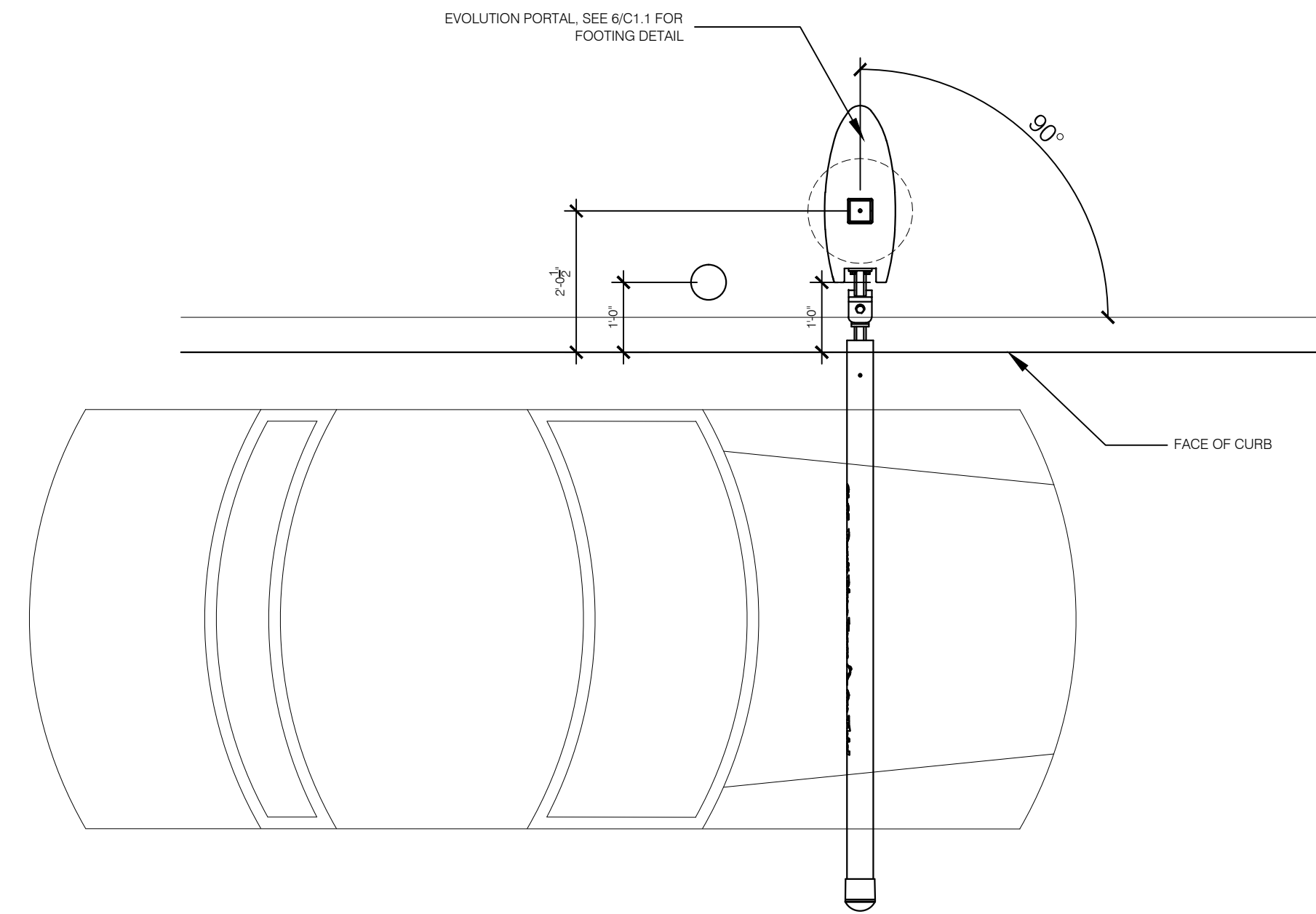
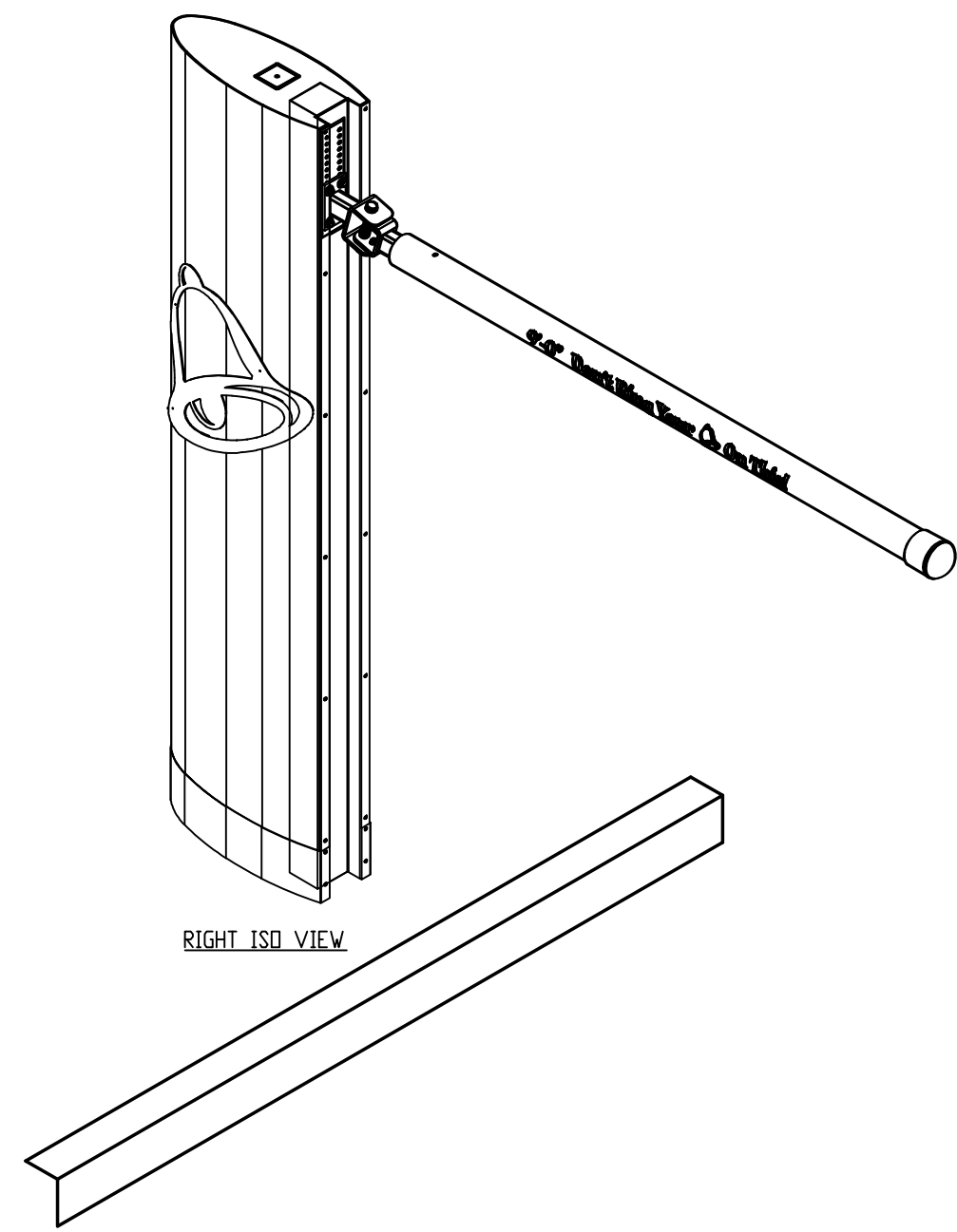
TACO BELL
770 National Road
Wheeling, WV 26003



**SITE
DETAILS**

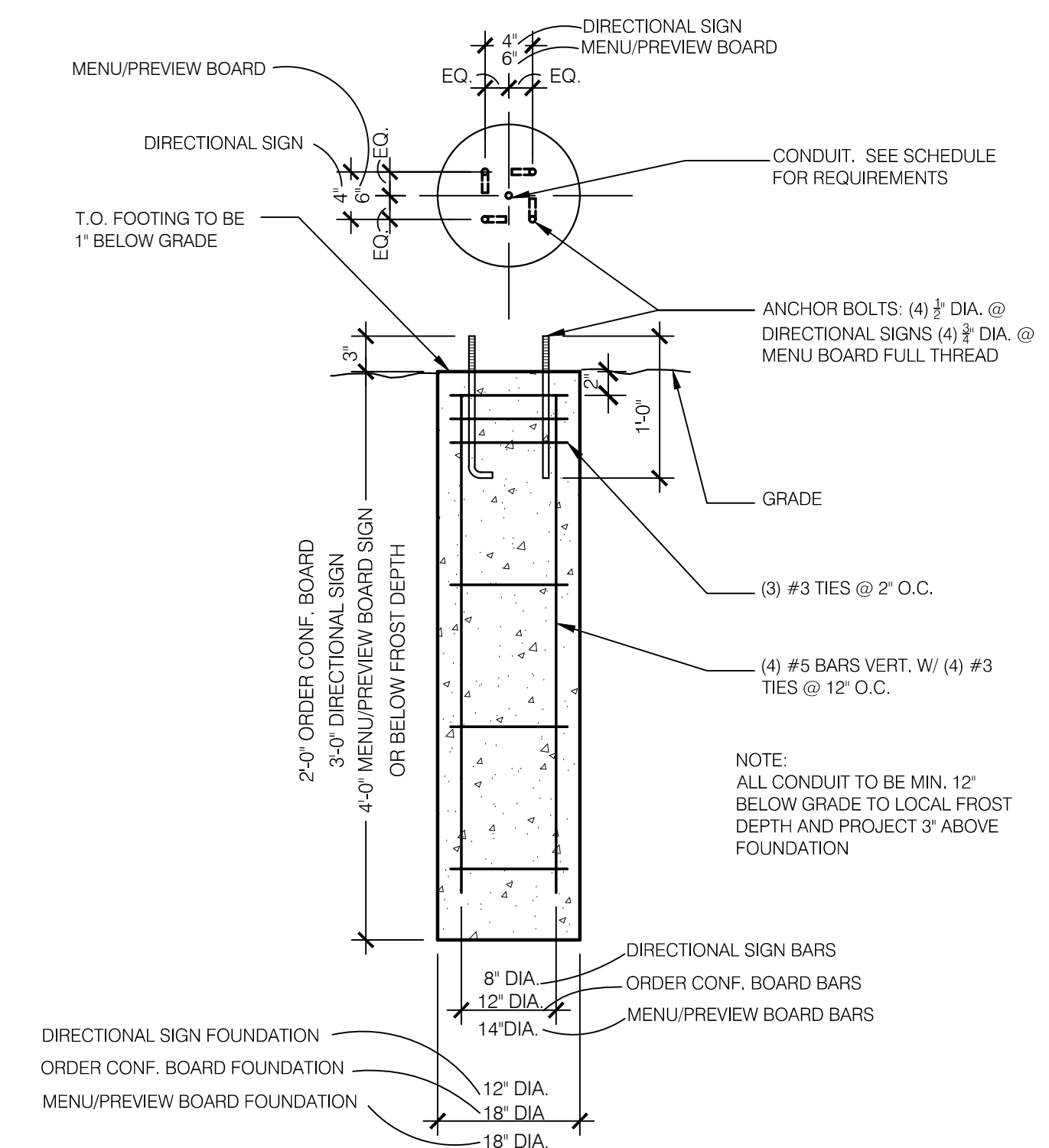
SD1.0

PERMIT PLOT DATE:

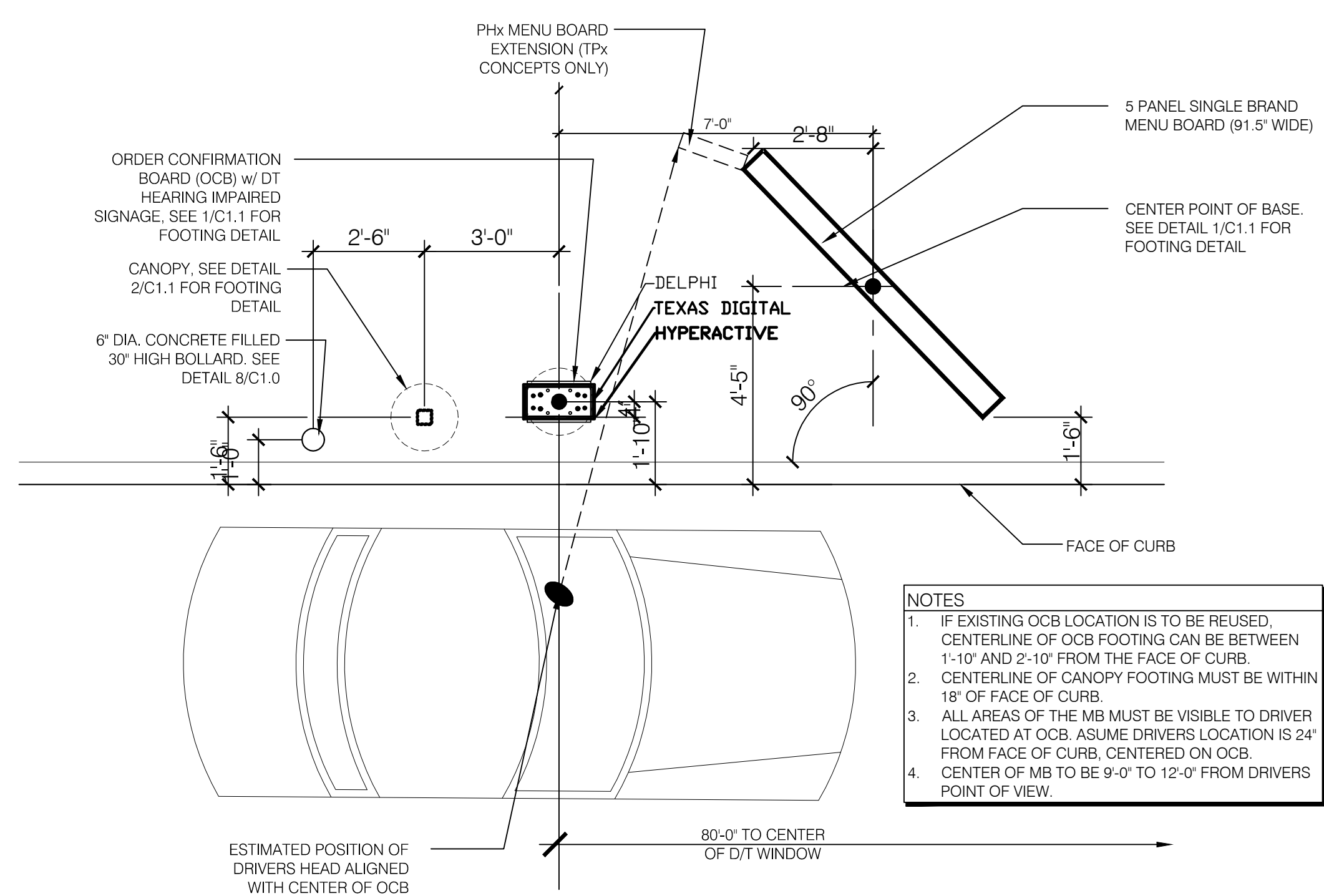


PORTAL PLACEMENT DETAIL 1/2" = 1'-0" **3**

CONDUIT SCHEDULE		
DEVICE	POWER	DATA
DIRECTIONAL	(1) 3/4"	-
OCB	(1) 3/4"	(3) 1"
MENU BOARD	(1) 3/4"	-

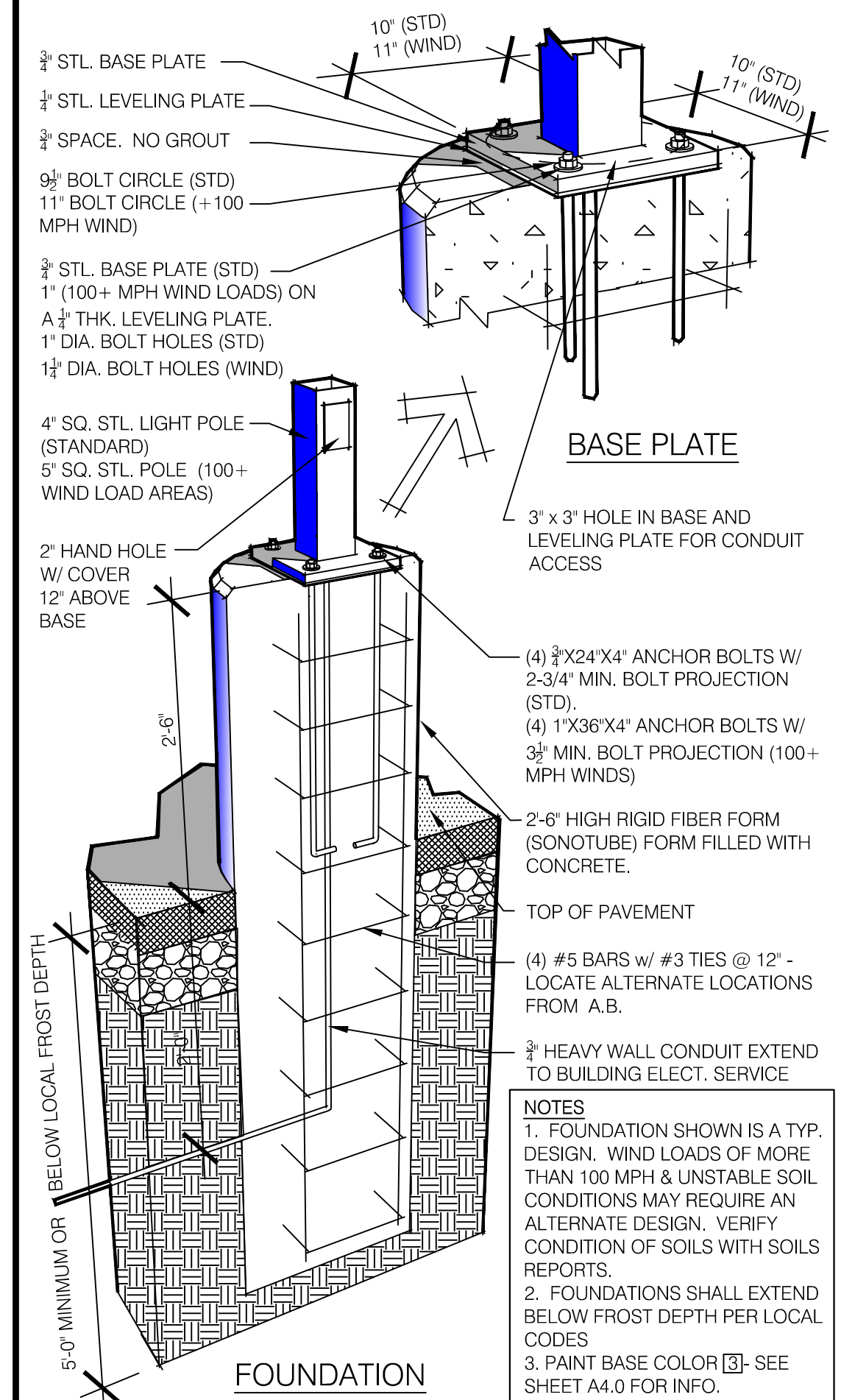


MENU BOARD FOOTING 1:16 SCALE **1**



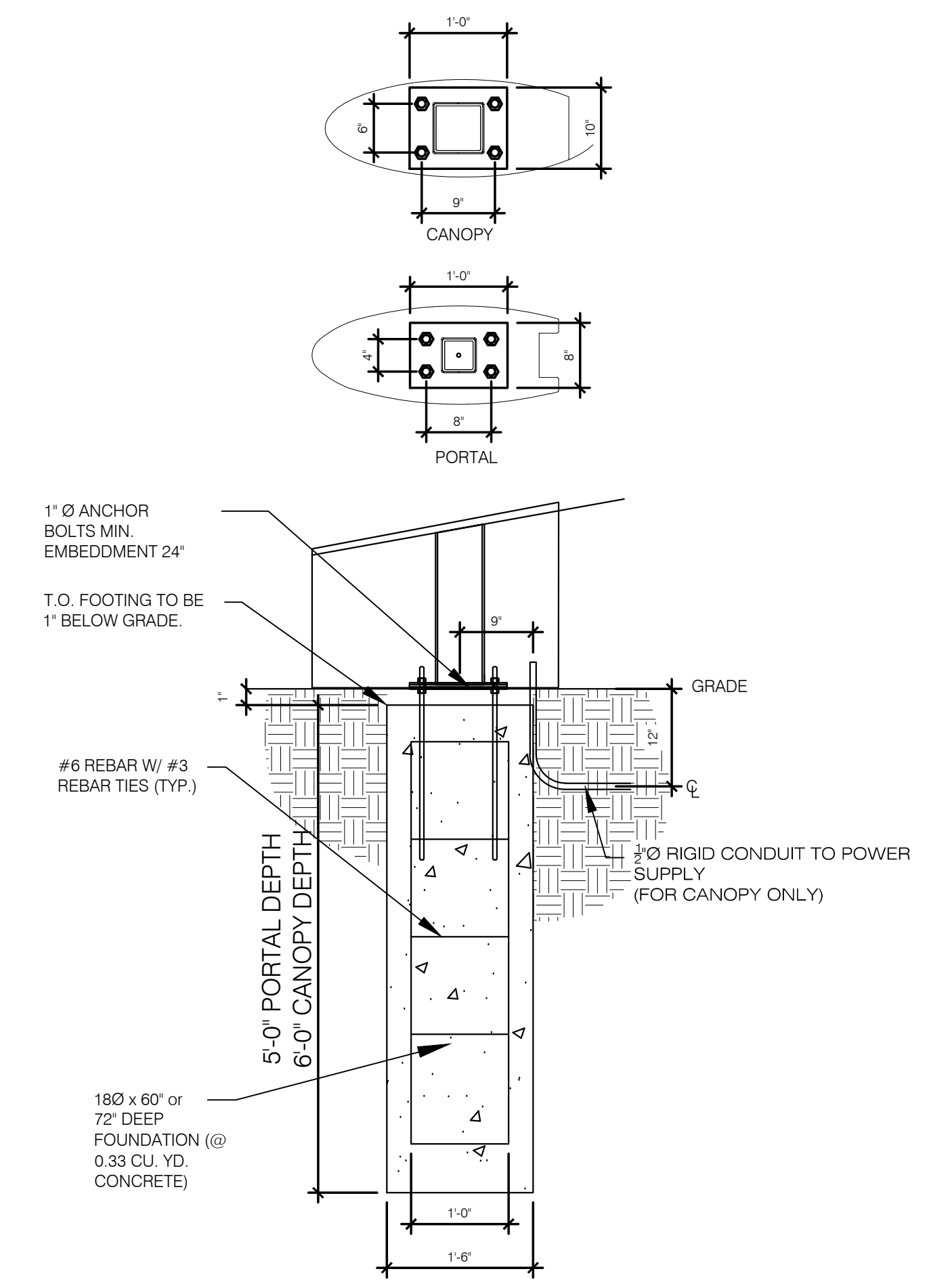
- NOTES**
- IF EXISTING OCB LOCATION IS TO BE REUSED, CENTERLINE OF OCB FOOTING CAN BE BETWEEN 1'-10" AND 2'-10" FROM THE FACE OF CURB.
 - CENTERLINE OF CANOPY FOOTING MUST BE WITHIN 18" OF FACE OF CURB.
 - ALL AREAS OF THE MB MUST BE VISIBLE TO DRIVER LOCATED AT OCB. ASSUME DRIVERS LOCATION IS 24' FROM FACE OF CURB, CENTERED ON OCB.
 - CENTER OF MB TO BE 9'-0" TO 12'-0" FROM DRIVERS POINT OF VIEW.

ENLARGED MENU BOARD DETAIL **16**

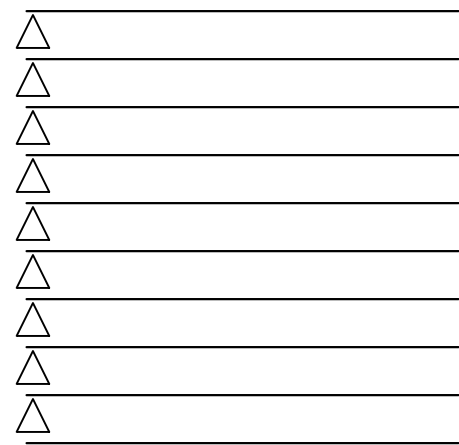


- NOTES**
- FOUNDATION SHOWN IS A TYP. DESIGN. WIND LOADS OF MORE THAN 100 MPH & UNSTABLE SOIL CONDITIONS MAY REQUIRE AN ALTERNATE DESIGN. VERIFY CONDITION OF SOILS WITH SOILS REPORTS.
 - FOUNDATIONS SHALL EXTEND BELOW FROST DEPTH PER LOCAL CODES.
 - PAINT BASE COLOR [] - SEE SHEET A4.0 FOR INFO.

LIGHT POLE FOOTING N.T.S. **12**



EVOLUTION FOOTINGS 1:16 SCALE **2**



CONTRACT DATE: 11.05.15
 BUILDING TYPE: LIVE MAS-Medium 40
 PLAN VERSION: REV P - NOV '15
 SITE NUMBER:
 STORE NUMBER:

TACO BELL
 770 National Road
 Wheeling, WV 26003



SITE DETAILS

SD2.0

PERMIT PLOT DATE: