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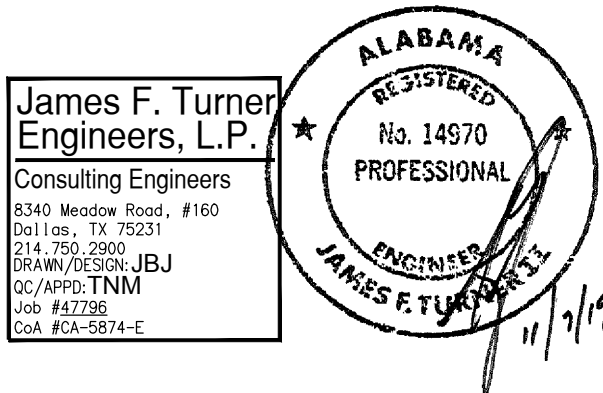
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| REVISIONS: | |
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| ISSUE DATE: | | |
| 1st | DEVELOPER REVIEW | 07.15.19 |
| 2nd | SITE PLAN SUBMITTAL | 08.26.19 |
| 3rd | SITE COMMENTS | 09.05.19 |
| 4th | ISSUE FOR PERMIT | 10.01.19 |
| 5th | ISSUE FOR BID | 11.07.19 |

DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027



Heights Venture
ARCHITECTURE • DESIGN

HOUSTON 1111 North Loop West, Suite 800
Houston, Texas 77008
713.866.1163 V

DALLAS 5741 Legacy Drive, Suite 320
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PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801
3600 FSDT
TWW REMODEL

E-601b

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME

BID ISSUE

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

| EXISTING PANELBOARD M | | | | | | | 225 | A | MLO | LOCATION: | | SERVICE ROOM | | | | | | | | | | | |
|---------------------------------|---|---|---|------|------|------|--------------------------------|-------------------------|-----|-----------|---|--------------|----------------------------|---------------------------------|----|------|------|-----|---|---|------|------|--|
| 208Y/120; 3-PHASE | | | | | | | 225 | MAIN BUS | | MOUNT: | | SURFACE | | | | | | | | | | | |
| BOLT-ON W/ EQUIPMENT GROUND BUS | | | | | | | 100% | NEUTRAL BUS | | TYPE: | | NEMA 1 | | | | | | | | | | | |
| | | | | | | | | | | | 65/10 KAIC SERIES RATED BUS AND BRACING | | | | | | | | | | | | |
| L | R | M | K | O | C.B. | POLE | LOAD AREAS AND LOCATION | | | Ø | Ø | Ø | LOAD AREAS AND LOCATION | | | POLE | C.B. | O | K | M | R | L | |
| | | | | | | | | A | B | C | | | | | | | | | | | | | |
| 1000 | | | | | 20/1 | 1 | LOGO 'S2' / I.D. SIGN 'S1' (C) | | | | | | | ICE MACHINE COND. '10J-S1' (VD) | 2 | 20/2 | 1230 | | | | | | |
| | | | | | 20/1 | 3 | SPARE | | | | | | | - | 4 | - | 1230 | | | | | | |
| | | | | | 20/1 | 5 | SPARE | | | | | | | MJ345 FRYER '21B' | 6 | 20/1 | | 960 | | | | | |
| | | | | | 20/1 | 7 | SPARE | | | | | | | SHUNT TRIP FOR CKT 6 | 8 | S/T | | | | | | | |
| | | | | 1120 | 20/1 | 9 | BEV. DISPENSER '4AB' (VD) | | | | | | | SPACE | 10 | | | | | | | | |
| | | | | | 100 | 20/1 | 11 | SECURITY / POS MONITORS | | | | | | SPACE | 12 | | | | | | | | |
| | | | | | 100 | 20/1 | 13 | HYPERACTIVE TIMER SYS. | | | | | | SPACE | 14 | | | | | | | | |
| | | | | | 20/1 | 15 | SPARE | | | | | | | SPACE | 16 | | | | | | | | |
| | | | | | 200 | 20/1 | 17 | COKE CARBONATOR | | | | | | SPACE | 18 | | | | | | | | |
| | | | | | 20/1 | 19 | SPARE | | | | | | | ACCU-2 | 20 | 30/3 | | | | | 2570 | | |
| | | | | | 20/1 | 21 | SPARE | | | | | | | - | 22 | - | | | | | | 2570 | |
| 128 | | | | | 20/1 | 23 | BUILDING LTG (C) | | | | | | | - | 24 | - | | | | | | 2570 | |
| 1500 | | | | | 20/1 | 25 | MENUBOARD (C) | | | | | | | EF-1 | 26 | 15/3 | | | | | | 889 | |
| 1000 | | | | | 20/1 | 27 | DR THRU ORDER SCREEN | | | | | | | - | 28 | - | | | | | | 889 | |
| | | | | | 20/1 | 29 | RTU CONVENIENCE OUTLETS | | | | | | | - | 30 | - | | | | | | 889 | |
| | | | | | 30/3 | 31 | ACCU-1 | | | | | | | EF-2 | 32 | 15/3 | | | | | | 889 | |
| | | | | | 2570 | - | 33 | - | | | | | | - | 34 | - | | | | | | 889 | |
| | | | | | 2570 | - | 35 | - | | | | | | - | 36 | - | | | | | | 889 | |
| | | | | | 1500 | 20/1 | 37 | (E) GWH-1 | | | | | | MA-1 | 38 | 30/3 | | | | | | 2390 | |
| | | | | | | 20/2 | 39 | SPARE | | | | | | - | 40 | - | | | | | | 2390 | |
| | | | | | | - | 41 | SPARE | | | | | | - | 42 | - | | | | | | 2390 | |
| | | | | | 20/1 | 43 | SPARE | | | | | | | SPARE | 44 | 20/1 | | | | | | | |
| | | | | | 20/1 | 45 | SPARE | | | | | | | SPARE | 46 | 20/1 | | | | | | | |
| | | | | | 20/1 | 47 | SPARE | | | | | | | SPARE | 48 | 20/1 | | | | | | | |
| | | | | | 20/1 | 49 | SPARE | | | | | | | SPARE | 50 | 20/1 | | | | | | | |
| | | | | | 20/1 | 51 | SPARE | | | | | | | SPARE | 52 | 20/1 | | | | | | | |
| | | | | | 20/1 | 53 | SPARE | | | | | | | SPARE | 54 | 20/1 | | | | | | | |

| CONNECTED KVA 3Ø | | | | | DEMAND AMPS | | | | | CONNECTED 3Ø LOAD CALCULATIONS | | | | | | | |
|-----------------------------|--|--|--|--|-------------|------|------|-------|-------------------------|--------------------------------|--|--|--|-------|-------------------------|--|------------|
| LIGHTING | | | | | 3.6 | 3.6 | 100% | 10.1 | PER NEC 220.42 | | | | | 14.6 | TOTAL KVA (ØA) = | | 121.9 AMPS |
| RECEPTACLE | | | | | 0.5 | 0.5 | 100% | 1.5 | PER NEC 220.44 | | | | | 12.7 | TOTAL KVA (ØB) = | | 105.4 AMPS |
| MOTOR | | | | | 27.9 | 27.9 | 100% | 77.5 | | | | | | 11.2 | TOTAL KVA (ØC) = | | 93.6 AMPS |
| *KITCHEN | | | | | 2.1 | 1.4 | 65% | 3.8 | | | | | | | | | |
| OTHER | | | | | 4.4 | 4.4 | 100% | 12.1 | PER NEC 220.51 - 220.60 | | | | | 107.0 | TOTAL CONNECTED 3Ø AMPS | | |
| SPARE | | | | | 0.0 | 0.0 | N/A | 0.0 | | | | | | 24.6 | NEUTRAL AMPS | | |
| TOTAL | | | | | 38.5 | 37.8 | | 104.9 | | | | | | 23% | IMBALANCE | | |
| FEEDER AMPACITY ADJUSTMENTS | | | | | | | | | | | | | | | | | |
| LIGHT AMPS | | | | | 2.5 | | | | | 113 MINIMUM FEEDER AMPS | | | | | | | |
| MOTOR AMPS | | | | | 5.4 | | | | | | | | | | | | |

REMARKS:
*KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(IG) TERMINATE GROUND ON ISOLATED GROUND BUS.
(C) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAIL 11 / SHEET E-400.
(VD) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
LEAVE ALL SPARES IN THE OFF POSITION.

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

| EXISTING PANELBOARD L | | | | | | | | | | 225 | A | MLO | LOCATION: | | SERVICE ROOM | | | | |
|--|---|---|---|---|------|------|---|---|---|---|--|---------------------------|-----------|------|--------------|------|------|---|--|
| 208Y/120; 3-PHASE | | | | | | | | | | 225 MAIN BUS | | | MOUNT: | | SURFACE | | | | |
| BOLT-ON W/ EQUIPMENT AND ISOLATED GROUND BUS | | | | | | | | | | 100% NEUTRAL BUS | | | TYPE: | | NEMA 1 | | | | |
| | | | | | | | | | | 65/10 KAIC SERIES RATED BUS AND BRACING | | | | | | | | | |
| L | R | M | K | O | C.B. | POLE | LOAD AREAS AND LOCATION | Ø | Ø | Ø | LOAD AREAS AND LOCATION | POLE | C.B. | O | K | M | R | L | |
| | | | | | 20/1 | 1 | SPARE | | A | B | C | ICE MACHINE COND '10J-S1' | 2 | 20/2 | | | 1227 | | |
| | | | | | 132 | 20/1 | 3 ICE MACHINE '10J' (GFCI) | | | | - | 4 | - | | | | 1227 | | |
| | | | | | 1800 | 20/1 | 5 GAS WATER HEATER 'GWH-1' (GFCI) | | | | WALK IN FREEZER COND '32-S1' | 6 | 25/2 | | | 1040 | | | |
| | | | | | 1780 | 20/1 | 7 ICE TEA BREWER '9D' (VD) | | | | - | 8 | - | | | 1040 | | | |
| 340 | | | | | 20/1 | 9 | LTG - RR / UTILITY RM / BACKROOM | | | | WALK IN COOLER COND '31-S' | 10 | 20/2 | | | 1560 | | | |
| | | | | | 20/1 | 11 | SPARE | | | | - | 12 | - | | | 1560 | | | |
| | | | | | 1200 | 20/1 | 13 D/T WINDOW 'M19' / SENSOR BAR | | | | SPARE | 14 | 20/1 | | | | | | |
| | | | | | 1300 | 20/1 | 15 INDUCTION DRY WELL '3F','3G' (VD) (GFCI) | | | | SPARE | 16 | 20/1 | | | | | | |
| | | | | | 1950 | 20/1 | 17 INDUCTION DRY WELL '3F','3G' (VD) (GFCI) | | | | SPARE | 18 | 20/1 | | | | | | |
| | | | | | 3000 | 40/3 | 19 ELECTRIC GRILL 238 | | | | SPARE | 20 | 20/1 | | | | | | |
| | | | | | 3000 | - | 21 - | | | | SPARE | 22 | 20/1 | | | | | | |
| | | | | | 3000 | - | 23 - | | | | SPARE | 24 | 20/1 | | | | | | |
| | | | | | | S/T | 25 SHUNT TRIP FOR CKT 19,21,23 | | | | SPARE | 26 | 20/1 | | | | | | |
| | | | | | 1950 | 20/1 | 27 INDUCTION DRY WELL '3F','3G' (VD) (GFCI) | | | | SPARE | 28 | 20/2 | | | | | | |
| | | | | | 1950 | 20/1 | 29 INDUCTION DRY WELL '3F','3G' (VD) (GFCI) | | | | - | 30 | - | | | | | | |
| | | | | | | 20/1 | 31 SPARE | | | | (E) EXTERIOR POLE MOUNTED LTG (VD) (C) | 32 | 20/2 | | | | 800 | | |
| | | | | | | 20/1 | 33 SPARE | | | | - | 34 | - | | | | 800 | | |
| | | | | | | 20/1 | 35 SPARE | | | | (E) EXTERIOR POLE MOUNTED LTG (VD) (C) | 36 | 20/2 | | | | 800 | | |
| | | | | | | 20/1 | 37 SPARE | | | | - | 38 | - | | | | 800 | | |
| | | | | | | 20/1 | 39 SPARE | | | | SPARE | 40 | 20/1 | | | | | | |
| | | | | | | 20/1 | 41 SPARE | | | | SPARE | 42 | 20/2 | | | | | | |
| | | | | | | 20/1 | 43 SPARE | | | | - | 44 | - | | | | | | |
| | | | | | | 20/1 | 45 SPARE | | | | SPARE | 46 | 20/1 | | | | | | |
| | | | | | | 20/1 | 47 SPARE | | | | SPARE | 48 | 20/1 | | | | | | |
| | | | | | | 20/2 | 49 SPARE | | | | SPARE | 50 | 20/1 | | | | | | |
| | | | | | | - | 51 - | | | | SPARE | 52 | 20/1 | | | | | | |
| | | | | | | 20/1 | 53 SPARE | | | | SPARE | 54 | 20/1 | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|--|------|------|------|----------------|-------------------------|-------------|--|--|-----|------------------|--------------------------------|--|--|--|-----------|------------|--|--|--|--|
| CONNECTED KVA 3Ø | | | | | | | | | | DEMAND AMPS | | | | | CONNECTED 3Ø LOAD CALCULATIONS | | | | | | | | | |
| LIGHTING | | | | | 3.5 | 100% | 9.8 | PER NEC 220.42 | | | | | 9.8 | TOTAL KVA (8A) = | | | | | 62.0 AMPS | | | | | |
| RECEPTACLE | | | | | 0.0 | 0.0 | N/A | 0.0 | PER NEC 220.44 | | | | | 10.3 | TOTAL KVA (8B) = | | | | | 85.8 AMPS | | | | |
| MOTOR | | | | | 7.7 | 7.7 | 100% | 21.2 | | | | | | 12.1 | TOTAL KVA (8C) = | | | | | 100.8 AMPS | | | | |
| *KITCHEN | | | | | 17.9 | 11.7 | 65% | 32.3 | | | | | | | | | | | | | | | | |
| OTHER | | | | | 3.1 | 3.1 | 100% | 8.7 | PER NEC 220.51 - 220.60 | | | | | 89.5 | TOTAL CONNECTED 3Ø AMPS | | | | | | | | | |
| SPARE | | | | | 0.0 | 0.0 | N/A | 0.0 | | | | | | 17.2 | NEUTRAL AMPS | | | | | | | | | |
| TOTAL | | | | | 32.3 | 26.0 | 72.1 | | | | | | 19% | IMBALANCE | | | | | | | | | | |
| FEEDER AMPACITY ADJUSTMENTS | | | | | | | | | | | | | | | | | | | | | | | | |
| LIGHT AMPS | | | | | | | | | | | | | | | 2.5 | | | | | | | | | |
| MOTOR AMPS | | | | | | | | | | | | | | | 3.2 | | | | | | | | | |
| 78 MINIMUM FEEDER AMPS | | | | | | | | | | | | | | | | | | | | | | | | |

REMARKS:
(E) - EXISTING
*KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(IG) TERMINATE GROUND ON ISOLATED GROUND BUS.
(C) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAIL 11 / SHEET E-400.
(VD) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
LEAVE ALL SPARES IN THE OFF POSITION.