

PANELBOARD									A		SCHEDULE														
VOLTAGE: 208Y/120V MAINS 600 MLO BUS SIZE: 600 AMP TOTAL LOAD 153.3 KVA									MOUNTING		RECESSED				REMARKS: PROVIDE GROUND BAR & ISOLATED GROUND BAR SERIES RATED 65 / 10K A.I.C.										
No.	SERVES	WIRE SIZE	LTG	RCPT	MTR	A/C	HGT	KITCH	BRKR TRIP	P	PH	A	B	C	BRKR P	TRIP	KITCH	HGT	A/C	MTR	RCPT	LTG	WIRE SIZE	SERVES	No.
1						3.8			45	3	●	●	●	●	3	50			5.5				6	RTU -2	2
3	RTU-1	8				3.8					●	●	●	●					5.5						4
5						3.8					●	●	●	●					5.5						6
7	MICROWAVE '55A' (1)	12						1.4	15	2	●	●	●	●					5.5						8
9								1.4			●	●	●	●					5.5						10
11	RICE HOLDING CABINET '24H' (1,4,6)	10						1.8	20	1	●	●	●	●					5.5				6	RTU-3	12
13	FRYER MJ345 '21B' (1,6)	12						0.9	20	1	●	●	●	●	1	20		0.5					12	HEAT WRAP '32-S7' (5)	14
15	FUTURE CONTROLS (1,6)	12						0.2	20	1	●	●	●	●	2	30		3.0					10	REAR DOOR CHF-25 'M8A'	16
17	WALK-IN COOLER COIL '31' (1)	12			0.3				20	1	●	●	●	●				3.0						HEATED AIR CURTAIN	18
19	ICE MACHINE COND. '10J-S' (1)	12			1.2				20	2	●	●	●	●	2	20				1.2			10	ICE MACHINE COND '10J-S1' (4)	20
21	(BEVERAGE STATION)				1.2				20	2	●	●	●	●						1.2				(DRIVE THRU)	22
23	WALK-IN FREEZER COND. '32-S1' (1,7)	8			3.3				40	2	●	●	●	●	2	30		3.0					10	DRIVE-THRU HEATED CHF-25 AIR CURTAIN 'M9B'	24
25					3.3						●	●	●	●				3.0							26
27	WALK-IN COOLER COND. '31-S' (1)	10			2.8				35	2	●	●	●	●	2	50		3.8					6	ELECTRIC GRIDDLE '23E' (1,6)	28
29					2.8						●	●	●	●			3.8								30
31	FIRE SUPPRESSION SYSTEM	12						0.2	20	1	●	●	●	●	1	20								SPARE	32
33	ROOF DRAIN HEAT TAPE	12							20	1	●	●	●	●	1	20								SPARE	34
35	SPACE								20	1	●	●	●	●	1									SPACE	36
37	SPACE									1	●	●	●	●	1									SPACE	38
39	SPACE									1	●	●	●	●	1									SPACE	40
41	SPACE									1	●	●	●	●	1									SPACE	42
43											●	●	●	●											44
45											●	●	●	●											46
47	PANEL "B"		9.3	9.1	12.6	0.0	2.0	32.1	225	3	●	●	●	●										UNUSABLE SPACE	48
49											●	●	●	●											50
51											●	●	●	●											52
53											●	●	●	●											54
SEE LOAD SUMMARY -->																	45.6	15.0	44.4	29.9	9.1	9.3		CONNECTED KVA	153.3
																	29.6	15.0	44.4	31.3	9.1	11.6		NEC KVA	141.0
																								AMPS	391.4

Service Entrance Load summary					
Lighting	9.30 x	125%	=	11.63 KVA	
Receptacles	9.10	+	0.00 x	50%	= 9.10 KVA
Motor	24.50 x	100% +	5.4 x	125%	= 31.25 KVA
Heating	15.00				= 15.00 KVA
AC	44.4				= 44.40 KVA
Kitchen	45.60 x	65%	=	29.64 KVA	
					141.02 KVA
Main Service Entrance Ampere Requirements					391.42 Amps
Main Service Fuse size					OK

NOTES:

- 1) INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVERS. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.
2. PROVIDE AN ARC FLASH WARNING SIGN FOR EACH PANEL PER NEC 110.16.

PANELBOARD NOTES ()

1. KITCHEN EQUIPMENT SHOWN AT 100% LOAD IN PANEL SCHEDULE. 65% DEMAND FACTOR TAKEN IN LOAD SUMMARY AS ALLOWED BY NEC 220.56 (KITCHEN EQUIPMENT).
2. TERMINATE GROUND ON ISOLATED GROUND BUS.
3. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAILS, 11/E-400.
4. WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER THE NEC.
5. PROVIDE GROUND FAULT EQUIPMENT PROTECTION (GFEF) TYPE CIRCUIT BREAKER FOR HEAT TAPE.
6. GFCI BREAKER.
7. INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).

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BUS SIZE:		225 AMP		TOTAL LOAD		65.1 KVA						SERIES RATED 65 / 10K A.I.C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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REVISIONS:

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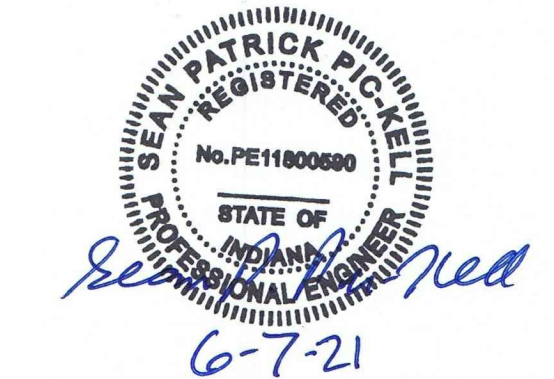
ISSUE DATE:

	STATE PERMIT	06.07.2

DRAWN BY: G. COLLINS

PANDA PROJECT #: D8060

ARCH PROJECT #: JCDT20-0240



NORR
ARCHITECTS ENGINEERS PLANNERS

PANDA EXPRESS

TRUE WARM & WELCOME
390 W Spring Mill Pointe Dr.
Westfield, IN 46074

E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2300 R5

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE. 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES

NOT TO SCALE | E-601

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN PANEL 'A' AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING 'CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 27.913 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED'; AT PANEL 'B' STATING 'CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 24.186 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED'.
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. PANELS AND CIRCUIT BREAKERS) HIGHLIGHT EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES	4
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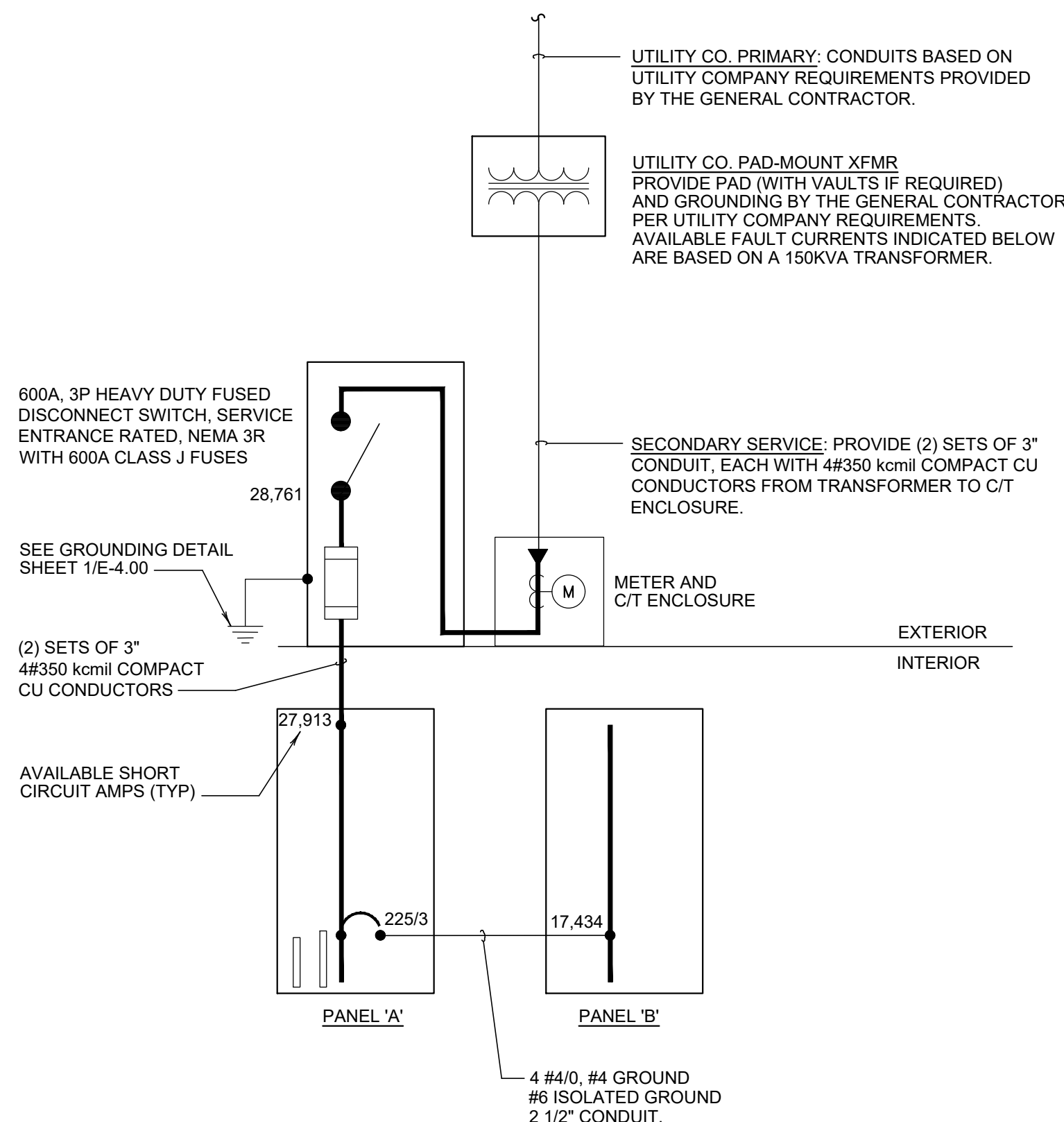
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ELECTRICAL SERVICE ENTRANCE COORDINATION

NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE				UTILITY COMPANY: XXXXXXXXXXXXXXXXXXXX			
SERVICE TO BUILDING ROUTED: TBD				NAME OF CONTACT: XXXXXXXXXXXXXXXXXXXX			
AVAILABLE FAULT CURRENT: TBD				PHONE: (XXX)-XXX-XXXX			
METERING LOCATION: EXTERIOR BUILDING				EMAIL: XXXXXXXXXXXX@XXXXX.com			
ITEMS	CONTRACTOR		UTILITY COMPANY				
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY			
PRIMARY CONDUCTORS			X	X			
PRIMARY TERMINATIONS			X	X			
PRIMARY CONDUIT(S)	X	X					
PRIMARY TRENCH/BACKFILL	X	X					
TRANSFORMER -(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X	X			
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X					
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X	X			
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X					
SECONDARY CONDUIT	X	X					
SECONDARY TRENCH/BACKFILL	X	X					
METERING CT'S - TO BE DETERMINED BY UTILITY			X	X			
METER HOUSING - PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X					
<u>CONTRACTOR NOTE:</u>							
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.							

DESIGNER NOTE:

1. ENGINEER/DESIGNER TO MODIFY ELECTRICAL COORDINATION FORM AS PER THEIR CONVERSATION WITH UTILITY PROVIDER.



PANEL SCHEDULES	1
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NOT TO SCALE | F-601

1

E-601

SINGLE LINE DIAGRAM

NOT TO SCALE | F-601

2

F-601