

DAMMON
ENGINEERING, INC.

EMMETT DAMMON

ARCHITECT
ROBERT WILTSE

1095 FLORIDA AVENUE
SLIDELL, LA. 70458
985-649-5832

WEBSITE:
WWW.DAMMONENGINEERING.COM

EMAIL:
DAMMONENG@BELLSOUTH.NET

ARCHITECTURE
ENGINEERING
STUDIES
PLANNING
INVESTIGATION
EXPERT WITNESS

MARCO'S
PIZZA
TENANT
BUILDOUT

4638 Hwy. 22
Mandeville
Louisiana
70471-2820

ELECTRICAL
PANELS

SCALE: AS NOTED
JOB#: 2107
DATE: 5-25-11
SHEET 9

E-2

OF 11

GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE FULLY WITH OTHER CONTRACTORS ASSOCIATED WITH THIS PROJECT TO PREVENT CONFLICTS DURING CONSTRUCTION. ANY DELAY OR RESOLUTION OF EQUIPMENT, PIPES, CONDUITS, DUCTS OR MATERIALS RESULTING FROM A LACK OF COORDINATION BETWEEN CONTRACTORS WILL BE AT THE CONTRACTOR'S EXPENSE.
- EQUIPMENT ROOMS SHOWN ARE ACCURATE TO THE BEST OF DESIGNER'S KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE ELECTRICAL CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT REVISIONS DIRECTLY UPON THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED DISCONNECT SWITCHES AND MOTOR STARTERS TO THE BUILDING.
- ELECTRICAL CONTRACTOR SHALL REVIEW WITH OWNER AND PROVIDE MANUFACTURER REQUIREMENTS AND LOCATION OF BUILDING SERVICE PRIOR TO CONSTRUCTION AND 120VAC CONNECTION AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AT JOB COMPLETION TO ARCHITECT.
- ALL WORK SHALL BE INSTALLED PER ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL OPEN PIPES, HUBBELL PLUGS (TWIST LOOKS)/ RECEPTACLES COMPLETE REFER TO INSTRUCTION MANUAL FOR DETAILS.
- ALL LIGHTING AND SIGN CIRCUIT BREAKERS TO BE SWITCH GRADE.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL STARTERS FOR ROOF MOUNTED SUPPLY AND EXHAUST FANS CONTROLLED FROM THE SAME SWITCH.
- ALL JUNCTION BOXES INSTALLED ABOVE OR DIRECTLY BELOW THE SUSPENDED CEILING SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 314-23 OF THE 2002 NEC.
- COMPUTER AND PHONE WIRING SHALL BE Routed IN 3/4" CONDUIT TO PHONE BOARD DEVICE LOCATION.
- ALL ISOLATED GROUND RECEPTACLE CIRCUITS SHALL BE EQUIPPED WITH INSULATED GROUND CONDUCTOR AND SEPARATE NEUTRAL WIRE.
- NEUTRAL WIRES FOR ISOLATED GROUND CIRCUITS SHALL NOT BE SHARED WITH OTHER BRANCH CIRCUITS. PROVIDE SEPARATE NEUTRAL WIRE FOR EACH ISOLATED GROUND CIRCUIT.
- ISOLATED GROUND CIRCUITS SHALL NOT BE Routed WITHIN SAME CIRCUIT.
- REMOVE SEPARATE CONDUIT FOR SERVICE TO ISOLATED GROUND CIRCUITS.
- NON-ISOLATED GROUND RECEPTACLE UNDER NO CIRCUMSTANCE BE INSTALLED IN COMMON JUNCTION BOX WITH ELECTRICAL CONTRACTOR SHALL USE THE MANUFACTURER'S WARRANTY, ELECTRICAL CONTRACTOR SHALL USE 90°C WIRE FOR CONNECTION TO HEAT STRIP UNITS PER MANUFACTURER'S RECOMMENDATION.
- PLASTIC WIRE NUTS WILL VOID THE MANUFACTURER'S WARRANTY. ELECTRICAL CONTRACTOR SHALL USE 90°C WIRE FOR CONNECTION TO HEAT STRIP UNITS PER MANUFACTURER'S RECOMMENDATION.
- USE CIRCUIT BREAKERS U.L. LISTED AS HACR TYPE FOR USE WITH HACR AND REFRIGERATING EQUIPMENT HAVING MOTOR GROUP COMBINATIONS AND MARKED FOR USE WITH HIGH TYPE CIRCUIT BREAKERS.
- WALK-IN COOLER REFRIGERATION UNIT AND CO2 TABLE TOP STRIP UNITS.
- FLUORESCENT LAMPS IN FOOD PREP, COOK AND FOOD STORAGE AREAS SHALL BE PROVIDED WITH SHATTER PROTECTIVE GLASS. GENERAL ELECTRIC COMPACTED LAMPS OR APPROVED EQUAL SHALL BE CONNECTED TO THE BRANCH CIRCUITS INDICATED HEREON OF RESPECTIVE CONTROL SWITCHES IN ORDER TO PROVIDE UNINTERRUPTED SERVICE TO FIXTURES.
- ALL 120V SINGLE PHASE, 15 OR 20 AMP RECEPTACLES LOCATED IN THE WORK AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERUPTER PROTECTION AS REQUIRED BY SECTION 210.8(B) OF THE 2002 NEC.

RECELVAY SYSTEMS

- FOUR WIRING SHALL BE Routed IN EMT, ELECTRICAL METALLIC TUBING. USE STEEL SET SCREW TYPE FITTINGS ON ALL EMT.
- CONDUIT SHALL BE SUPPORTED AT INTERVALS PER NEC REQUIREMENTS AND SHALL BE SECURELY FASTENED TO BUILDING WITH AN APPROVED FASTENING SYSTEM.
- WIRING, WIRING DEVICES, PLATES AND GROUNDING.
- ALL WIRING SHALL CONSIST OF COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION RATED FOR SIX HUNDRED (600) VOLTS. ALL WIRING INSULATION SHALL BE HEAT AND MOISTURE RESISTANT TYPES THW, THWN, OR THHN FOR INTERNAL AND DRYER LOCATIONS.
- MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG FOR ALL POWER CIRCUITS (IE RECEPTACLES, LIGHTING, EQUIPMENT AND DRYER LOCATIONS).
- ALL STRAPES AND CONNECTIONS SHALL BE MADE IN OUTLET BOXES, JUNCTION BOXES OR EQUIPMENT WHERE ACCESSIBLE.
- CONDUCTORS SHALL BE PULLED WITHOUT THE USE OF OIL OR GREASE. WIRE PULLING DEVICES WHICH ARE APPROVED BY THE MANUFACTURER SHALL BE USED TO PULL WIRE THROUGH CONDUITS. WIRE SHALL BE PULLED TO PROVIDE MAXIMUM ALLOWABLE PULLING TENSION OF WIRE IS NOT EXCEEDED. WIRING WITH DAMAGED CONDUCTORS OR INSULATION WILL NOT BE ACCEPTED.
- ALL PLUG-IN DEVICES SHALL BE GROUNDING TYPE. A GROUNDING JUMPER FROM RECEPTACLE TO OUTLET BOX SHALL BE INSTALLED WHERE CONDUIT SYSTEM IS USED FOR GROUND.
- ALL ELECTRICAL PANELS, RECEPTACLES AND DEVICES SHALL BE INSTALLED AS INDICATED ON DRAWINGS AND ALL UNIFORM KETTLE RECEPTACLES PER NEC.
- SWITCHES FOR LIGHTING CONTROL SHALL BE INDUSTRIAL GRADE, MOBY COLOR, SIZE WHEED ONLY, TWENTY (20) AMP, ONE HUNDRED TWENTY/ONE HUNDRED SEVENTY-SEVEN (120/277) VOLT.
- DUPLEX RECEPTACLES SHALL BE INDUSTRIAL GRADE, THREE (3) WIRE GROUNDING, MOBY COLOR, RIDER GROOVE, TWENTY (20) AMP, NEMA 5-20R 125 VAC.
- PLATES SHALL BE FURNISHED AND INSTALLED FOR ALL WIRING DEVICES, TELEPHONE OUTLETS, JUNCTION BOXES, ETC.
- PLATES FOR FLUSH MOUNTED DEVICES SHALL BE STAINLESS STEEL. PLATES FOR SURFACE MOUNTED SHALL BE GALVANIZED STEEL.

LIGHTING FIXTURES

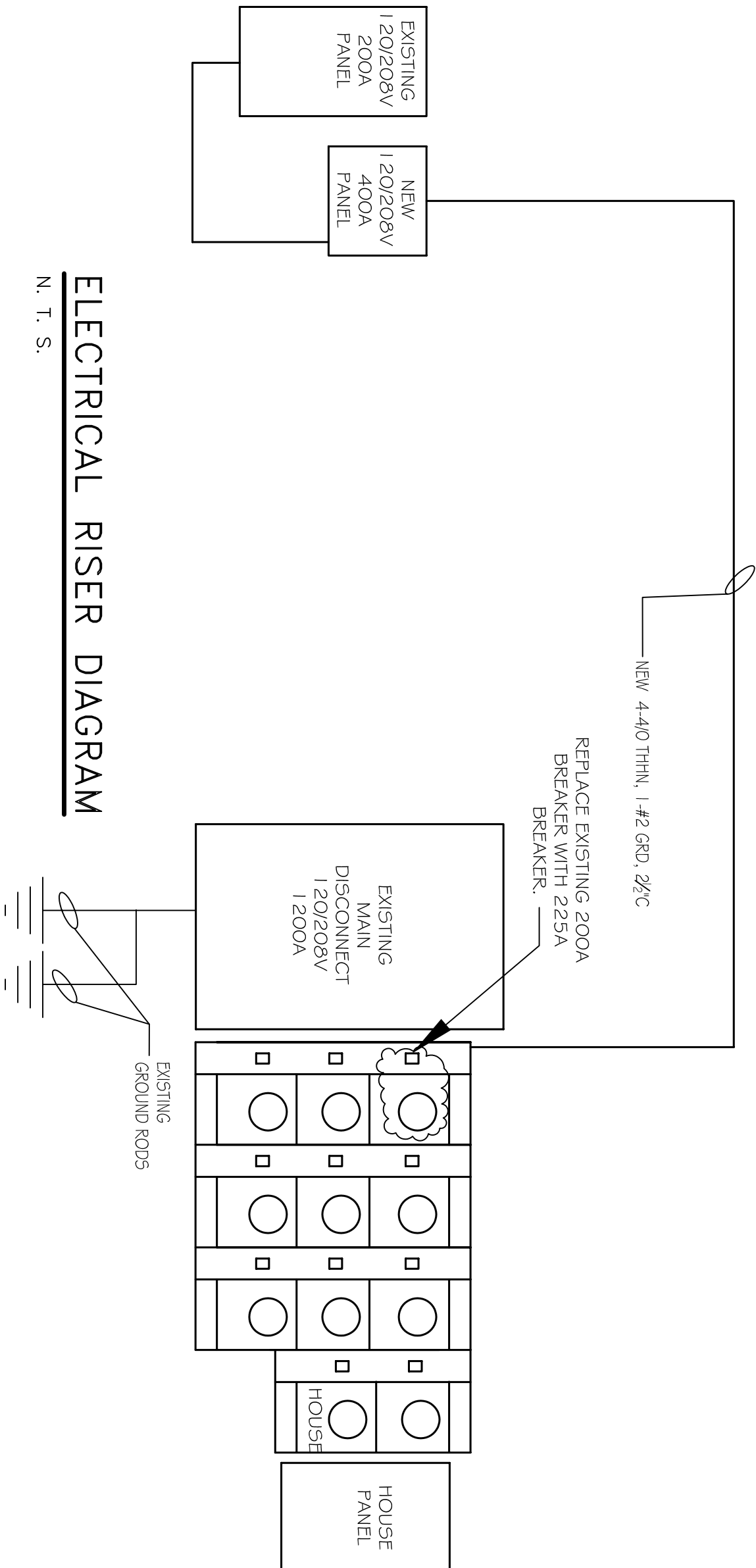
- PROVIDE LIGHTING FIXTURES, OF SIZES, TYPES AND RATINGS INDICATED, COMPLETE WITH, BUT NOT LIMITED TO, HOUSINGS, ENERGY-EFFICIENT LAMPS, LAMP HOLDERS, REFLECTORS, ENERGY EFFICIENT BALLASTS, STARTERS AND WIRING SUPPORTS WITH CONCEALED HINGES AND CATCHES, WITH METAL PARTS GROUNDING AS COMMON UNIT, AND SO CONSTRUCTED AS TO DAMPEN BALLAST GENERATED NOISE.
- FLUORESCENT BALLASTS PROVIDED FOR FOUR (4) FOOT 1-8 FLUORESCENT LAMPS SHALL BE TWO-LAMP ENERGY SAVING, ELECTRONIC TYPE.
- INSTALL INTERIOR LIGHTING FIXTURES AT LOCATIONS AS INDICATED, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC, NEC'S STANDARD OF INSTALLATION, NEMA STANDARDS, AND WITH RECOMMENDED INDUSTRY PRACTICES THAT LIGHTING FIXTURES ROUTE ALL REQUIREMENTS.
- PROVIDE AND INSTALL ALL LIGHT FIXTURES INDICATED COMPLETE WITH SPECIFIED LAMPS. FLUORESCENT LAMPS SHALL BE INSTALLED WITH BALLASTS AND STARTERS AS INDICATED ON DRAWINGS. ALL OTHER TYPES OF LAMPS SHALL BE HIGH COLOR RENDERING, HIGH EFFICIENCY LAMPS WITH NOMINAL OPERATING TEMPERATURE OF 3,500 K.
- FASTEN LIGHTING FIXTURES SECURELY TO STRUCTURAL SUPPORTS, AND ENSURE THAT FIXTURES ARE PLUMB AND LEVEL.
- FLUORESCENT FIXTURES INSTALLED IN LAY-IN CEILINGS SHALL BE SUPPORTED BY ADDITIONAL WIRE SUPPORT AT TWO CORNERS, ATTACHED TO CEILING GRID, AND ANCHORED TO STRUCTURAL MEMBER. THIS ADDITIONAL WIRE SUPPORT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND IS NOT CONSIDERED PART OF GENERAL LAYOUT.
- PROVIDE EQUIPMENT GROUNDING CONNECTIONS FOR INTERIOR LIGHTING FIXTURES AS INDICATED. TIGHTEN CONNECTION TO COMPLY WITH TIGHTENING TORQUES SPECIFIED IN UL STD 480A TO ASSURE PERMANENT AND EFFECTIVE GROUNDS.
- ALL LIGHT FIXTURES SHALL BE UL LISTED.

FIRE RATED WALL PENETRATIONS

- PROVIDE U.L. LISTED FIRESTOP SYSTEM SEALANTS AROUND ALL CONDUITS PASSING THROUGH ALL RATED WALLS OR FLOORS IN ACCORDANCE WITH THE U.L. FIRE RESISTANCE DIRECTORY.
- THE SELECTED SYSTEM MUST BEAR AN APPROVED U.L. PENETRATION SYSTEM NUMBER AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE RATING OF THE SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM NUMBER AND EXTENT OF ALL FIRE RATED PARTITIONS IN THE FACILITY.
- APPROVED PRODUCTS:
 - HULTI CS240
 - TERMO FRESHIELD
 - 3M OF-25

ELECTRICAL RISER DIAGRAM

N. T. S.



PANEL: MDP
LOCATION: NEAR RESTROOM

SERVICE: 120/208V, 225A 3# 4# 4W
ENCLOSURE: FLUSH MOUNTED W/EQUIPMENT GRID BAR
400A, WLO, 22000 AIC

GET WIRE SIZE	THHN SIZE	LOAD DESCRIPTION	BREAKER AMP	POLE	LOAD (KW)	4# 4# 4# 4#	LOAD (KW)	BREAKER AMP	LOAD DESCRIPTION	THHN SIZE	GET WIRE SIZE	
1	10	CONCRETE OVEN #1	30	2	1.2	1.2	3.1	40	EXHIST 6 TON A/C #1	8	4	
3	10	SHUNT TRIP BREAK	2	1.2	1.2	1.2	3.1	3	EXHIST 6 TON A/C #1	8	4	
5	10	CONCRETE OVEN #1	30	2	1.2	1.2	3.1	30	EXHIST 6 TON A/C #1	8	4	
7	10	CONCRETE OVEN #1	30	2	1.2	1.2	3.1	30	EXHIST 6 TON A/C #1	8	4	
9	12	WASHING & PRINTERS	20	1	1.0	1.0	2.1	80	EXHIST 6 TON A/C #1	4	10	
11	12	TELEPHONE BOARD	20	1	1.0	1.0	2.1	20	SPARE	12	18	
13	---	SPARE	20	1	---	---	---	20	SPARE	12	18	
15	12	DOUGH ROLLER #6	20	1	0.8	0.8	1.2	20	DOUGH R	12	18	
17	12	REFRIGERATOR #4	20	1	1.1	1.1	1.1	1	20	SPARE	18	
19	12	BOTTLE COOLER #28	20	1	1.2	1.2	1.2	1	20	SPARE	18	
21	12	WATER TB. #1A	20	1	1.8	1.8	1.8	1	20	SPARE	18	
23	12	FREEZER #20	20	1	1.8	1.8	1.8	1	20	SPARE	18	
25	12	WINDOW SINGS	20	1	1.0	1.0	1.2	1	20	SPARE	18	
27	12	OUTLETS	20	1	1.0	1.0	1.2	1	20	SPARE	18	
29	12	SON TUBER	20	1	1.8	1.8	1.8	1	20	SPARE	18	
31	12	LIGHTS	20	1	1.3	1.3	1.6	1	20	SPARE	18	
33	---	SPARE	20	1	---	---	0.8	1	20	FRONT COUNTER OUTLETS	12	18
35	---	SPARE	20	1	---	---	0.8	1	20	FRONT COUNTER OUTLETS	12	18
37	---	SPARE	20	1	---	---	0.8	1	20	FRONT COUNTER OUTLETS	12	18
39	---	SPARE	20	1	---	---	---	1	20	SPARE	18	
41	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
43	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
44	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
45	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
46	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
47	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
48	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
49	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
50	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
51	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
52	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
53	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
54	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
55	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
56	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
57	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
58	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
59	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
60	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
61	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
62	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
63	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
64	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
65	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
66	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
67	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
68	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
69	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
70	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
71	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
72	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
73	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
74	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
75	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
76	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
77	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
78	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
79	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
80	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
81	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
82	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
83	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
84	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
85	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
86	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
87	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
88	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
89	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
90	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
91	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
92	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
93	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
94	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
95	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
96	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
97	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
98	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
99	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
100	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
101	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
102	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
103	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
104	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
105	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
106	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
107	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
108	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
109	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
110	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
111	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
112	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
113	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
114	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
115	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
116	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
117	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
118	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
119	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
120	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
121	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
122	---	BLANK	20	1	---	---	---	1	20	SPARE	18	
123	---	BLANK	20	1	---	---	---	1	20	SPARE	18	