City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

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Medical Center of Aurora

South Campus - Private Room Expansion

1501 SOUTH POTOMAC STREET
AURORA, CO 80012

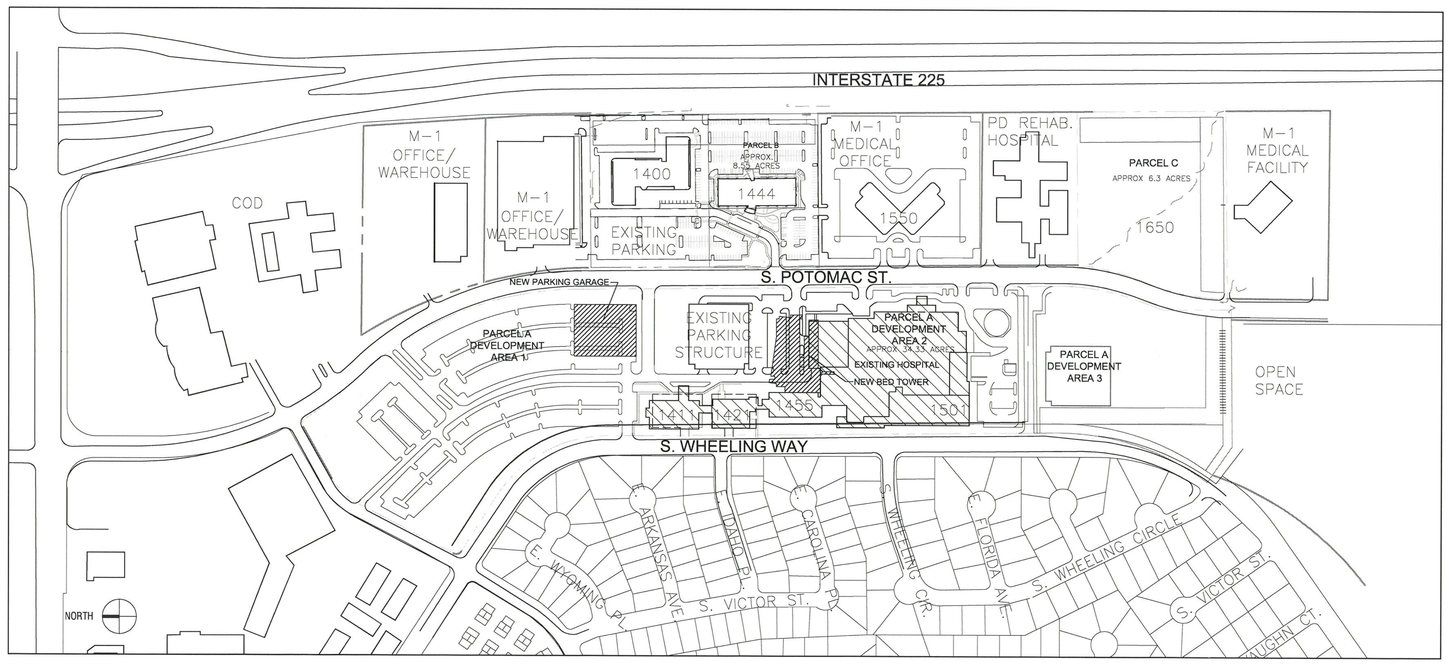
ISSUED FOR PERMIT AND CONSTRUCTION

FACILITY	OWNER	ARCHITECT	INTERIOR DESIGN	STRUCT. ENGINEER	MEP ENGINEER	CIVIL ENGINEER	LANDSCAPE
MEDICAL CENTER OF AURORA SOUTH CAMPUS 1501 SOUTH POTOMAC STREET AURORA, CO 80012 (303) 695-2603 (303) 337-9773 FAX CONTACT: MARY BERRIGAN CONTACT: DENNIS SOBOLIK	HCA HEALTHCARE CORP. ONE PARK PLAZA, BLDG. 2 , EAST, 3RD FLR NASHVILLE, TENNESSEE 37203 (615) 344-1137 (615) 944-4520 FAX CONTACT: CLINT RUSSELL	PERKINS & WILL - CRA 10100 N. CENTRAL EXPWY DALLAS, TX 75231 (214) 283-8700 (214) 283-8701 FAX CONTACT: CARY GARNER CONTACT: DIMITRI ENGLERT	PERKINS & WILL - CRA 10100 N. CENTRAL EXPWY DALLAS, TX 75231 (214) 283-8700 (214) 283-8701 FAX CONTACT: CHANDANA NARAYAN CONTACT: JOY BARTOLOTTA	TRC International, Ltd. 5050 QUARUM DRIVE, SUITE 700 Dallas, TX 75254 T: 214.722.6452 F: 214.722.6552 CONTACT: ANDY HAMMER	CCRD PARTNERS 3625 N. HALL STREET SUITE 1300, LB 139 DALLAS, TX-75219 T: 214.521.1661 F: 214.521.1664 CONTACT: JEFF BLACK	MARTIN/MARTIN INC 12499 WEST COLFAX AVE LAKEWOOD, CO 80215 T: 303.431.6100 F: 303.431.4028 CONTACT: DUANE JANSEN	DAVIS PARTNERSHIP 2310 BLAKE STREET, SUITE 100 DENVER, CO 80205 T: 303.861.8555 F: 303.861.3027 CONTACT: LYNN MOORE

October 12, 2007

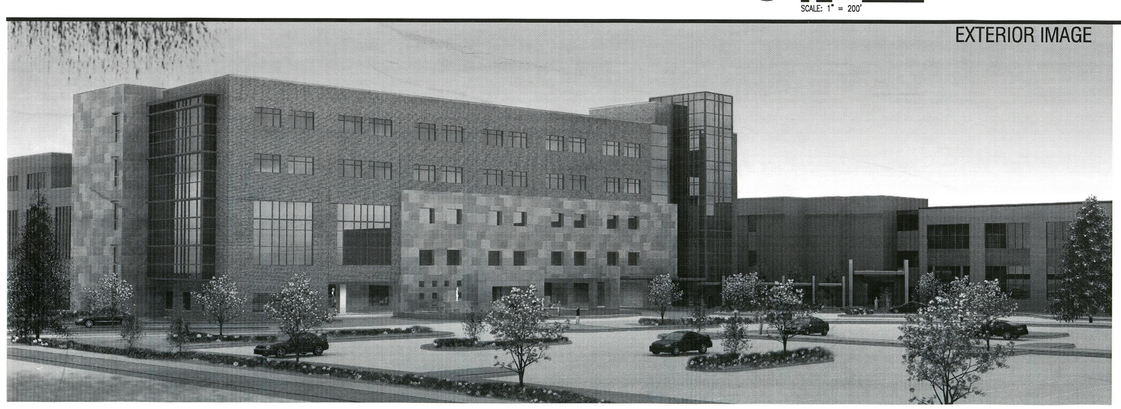
100% Construction Documents
PR #13

PW PROJECT # 142228.000
HCA #306660001



01 EXISTING SITE PLAN
0 8' 16' 32'
SCALE: 1" = 200'

No change
2007206858



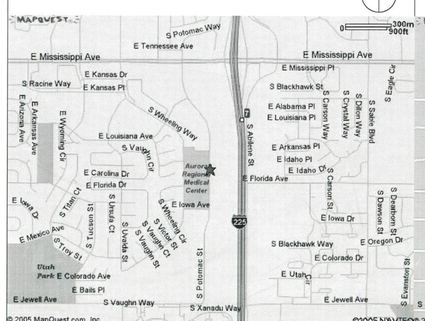
EXTERIOR IMAGE

ISSUE DATES

DATE/ISSUE	
04/06/06 - 75% DD	●
04/20/06 - 100% DD	●
06/01/06 - EARLY RELEASE PKG #1	●
06/09/06 - 50% CD	●
07/13/06 - 75% CD	●
08/03/06 - 95% CD	●
08/24/06 - ERP #1, ADDEND. #1	●
08/24/06 - 100% CD	●
10/31/06 - 100% CD, ADDEND. #2	●
01/18/07 - 100% CD ASI #002	●
03/12/07 - 100% CD ASI #003	●
03/27/07 - 100% CD ASI #004	●
04/06/07 - 100% CD ASI #005	●
04/27/07 - 100% CD PR #01	●
05/21/07 - 100% CD PR #03	●
06/08/07 - 100% CD ASI #007	●
07/09/07 - 100% CD ASI #009	●
07/09/07 - 100% CD PR #06	●
08/02/07 - 100% CD PR #07	●
08/16/07 - 100% CD PR #08	●
08/17/07 - 100% CD PR #09	●
09/14/07 - 100% CD PR #12	●
10/12/07 - 100% CD PR #13	●

OVERALL MAP

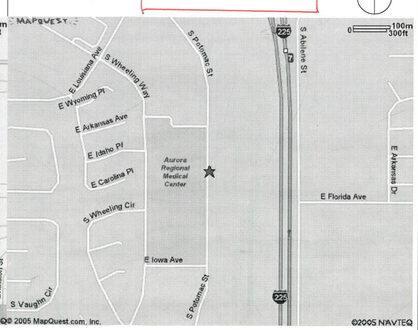
NORTH



VICINITY MAP

This sheet of drawings has not been reviewed for code compliance.

NORTH



PERKINS & WILL
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Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com

Medical Center of Aurora
South Campus
Private Room Expansion
Aurora, Colorado

HCA
Project # 306660001

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STATE OF COLORADO
TRUDY K. McDOUGAL
203601
LICENSED ARCHITECT
10-12-07

Revisions

NO.	ISSUE	DATE
1	PR #7	8.02.07
2	PR #8	8.16.07
3	PR #9	8.17.07
4	PR #12	9.14.07
5	PR #13	10.12.07

Sheet Information

Date	08-24-2006
Job Number	142228.000
Drawn	DcE
Checked	DCE
Approved	CG

Title

SITE PLAN
VICINITY MAP

Sheet

G-0000

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Oct 15, 2007 - 2:33pm
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kenpat

Medical Center of Aurora

South Campus - Private Room Expansion

1501 SOUTH POTOMAC STREET
AURORA, CO 80012

October12, 2007

PWCRA PROJECT # 142228.000
HCA #306660001

100% Construction Documents
PR #13

SYMBOLS KEY

DRAWING NUMBER KEY

DISCIPLINE
A – ARCHITECTURAL
C – CIVIL
L – LANDSCAPE
M – MECHANICAL
E – ELECTRICAL
P – PLUMBING
S – STRUCTURAL
K – KITCHEN
R – RADIOLOGY

15/A-2010
NUMBER OF PLAN, DETAIL, ETC. ON SHEET
DRAWING SERIES

ISSUE DATE
INITIAL ISSUE DATE: MAY 17, 2006
INITIAL ISSUE NAME: FOR CONSTRUCTION
REVISION NAME: CITY COMMENTS #1 MAY 17, 2006

Volume 2

Volume 3

INDEX OF DRAWINGS

MEP

		ISSUE	03 100% Construction Issue	Addendum #1 Issue	Addendum #2 Issue	02 #1 Issue	02 #2 Issue	03 #1 Issue	03 #2 Issue	PR #1 Issue	PR #2 Issue	PR #3 Issue	PR #4 Issue	PR #13 Issue
		DATE	08-24-06	10-31-06	11-14-06	02-12-07	02-23-07	03-21-07	04-27-07	05-08-07	07-06-07	08-02-07	09-04-07	10-12-07
MEP-1001	SITE PLAN - MEP		●											
MEP-2001	ROOF PLAN - MEP		●	●			●			●				
MD-2001A	DUCTWORK DEMO PLAN FIRST FLOOR AREA 'A'		●											
MD-2001B	DUCTWORK DEMO PLAN FIRST FLOOR AREA 'B'													
MD-2001C	DUCTWORK DEMO PLAN FIRST FLOOR AREAS 'C' & 'D'													
MD-2001D	DUCTWORK DEMO PLAN FIRST FLOOR ENGINEERING													
MD-3001A	HVAC PIPING DEMO PLAN FIRST FLOOR AREA 'A'		●											
MD-3001B	HVAC PIPING DEMO PLAN FIRST FLOOR AREA 'B'													
MD-3001C	HVAC PIPING DEMO PLAN FIRST FLOOR AREAS 'C' & 'D'													
MD-3001D	HVAC PIPING DEMO PLAN FIRST FLOOR ENGINEERING													
M-0000	GENERAL INFORMATION MECHANICAL													
MD-5001	ENLARGED MECHANICAL ROOMS DEMO		●											
M-1001	CONTROLS DIAGRAMS MECHANICAL		●											
M-1002	CONTROLS DIAGRAMS MECHANICAL													
M-1003	CONTROLS DIAGRAMS MECHANICAL													
M-1004	CONTROLS DIAGRAMS MECHANICAL													
M-1005	CONTROLS DIAGRAMS MECHANICAL													
M-1006	CONTROLS DIAGRAMS MECHANICAL		●											
M-1007	CONTROLS DIAGRAMS MECHANICAL		●											
M-2001A	DUCTWORK PLAN FIRST FLOOR AREA 'A'		●		●									
M-2001B	DUCTWORK PLAN FIRST FLOOR AREA 'B'		●											
M-2001C	DUCTWORK PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
M-2001D	DUCTWORK PLAN FIRST FLOOR ENGINEERING, MECHANICAL ROOM, AND BASEMENT		●											●
M-2002	DUCTWORK PLAN, SECOND FLOOR		●											
M-2003	DUCTWORK PLAN, THIRD FLOOR		●							●				
M-2004	DUCTWORK PLAN, FOURTH FLOOR		●							●				
M-2005	DUCTWORK PLAN, FIFTH FLOOR		●							●				
M-3001A	HVAC PIPING PLAN-FIRST FLOOR AREA 'A'		●	●										
M-3001B	HVAC PIPING PLAN FIRST FLOOR AREA 'B'		●											
M-3001C	HVAC PIPING PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
M-3001D	HVAC PIPING PLAN FIRST FLOOR ENGINEERING AND MECHANICAL ROOM		●											
M-3002	HVAC PIPING PLAN SECOND FLOOR		●											
M-3003	HVAC PIPING PLAN THIRD FLOOR		●											
M-3004	HVAC PIPING PLAN FOURTH FLOOR		●											
M-3005	HVAC PIPING PLAN FIFTH FLOOR		●											
M-4001	MECHANICAL SECTIONS		●											
M-5001	ENLARGED MECHANICAL ROOMS		●	●										
M-5001T	ENLARGED MECHANICAL TEMP CHILLER PLAN													
M-5002	ENLARGED MECHANICAL ROOMS													
M-5003	ENLARGED MECHANICAL ROOMS		●	●										
M-5004	ENLARGED MECHANICAL PLANS													
M-6001	CENTRAL PLANT CHILLED WATER FLOW DIAGRAM		●											
M-6002	MECHANICAL FLOW DIAGRAMS		●											
M-6003	MECHANICAL FLOW DIAGRAMS		●											
M-6004	CHILLED WATER FLOW DIAGRAM		●											
M-6005	STEAM AND HEATING WATER FLOW DIAGRAM		●											
M-6006	AIR RISER SCHEMATIC FLOW DIAGRAM		●											
M-7001	MECHANICAL DETAILS		●											
M-7002	MECHANICAL DETAILS		●											
M-7003	MECHANICAL DETAILS		●											
M-7004	MECHANICAL DETAILS		●											
M-7005	MECHANICAL DETAILS		●											
M-7006	MECHANICAL DETAILS		●											
M-8001	MECHANICAL SCHEDULES		●											
M-8002	MECHANICAL SCHEDULES		●	●										
M-8003	MECHANICAL SCHEDULES		●	●										
M-8004	MECHANICAL SCHEDULES		●											
PD-1001A	UNDERFLOOR DEMO UNDERFLOOR PLAN FIRST FLOOR AREA 'A'		●											
PD-1001B	UNDERFLOOR DEMO UNDERFLOOR PLAN FIRST FLOOR AREA 'B'		●											
PD-1001C	UNDERFLOOR DEMO UNDERFLOOR PLAN FIRST FLOOR AREAS 'C' & 'D'		●	●										
PD-1001D	UNDERFLOOR DEMO PLAN FIRST FLOOR ENGINEERING													
PD-2001C	PLUMBING DEMO UNDERFLOOR PLAN FIRST FLOOR AREA 'C' & 'D'		●	●										
PD-2001A	PLUMBING DEMO PLAN FIRST FLOOR AREA 'A'													
PD-2001B	PLUMBING DEMO PLAN FIRST FLOOR AREA 'B'													
PD-2001C	PLUMBING DEMO PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
PD-2001D	PLUMBING DEMO PLAN FIRST FLOOR ENGINEERING													
PD-5001	ENLARGED CENTRAL PLANT DEMO		●	●						●				
P-1001A	UNDERFLOOR PLAN FIRST FLOOR AREA 'A'		●	●		●								
P-1001B	UNDERFLOOR PLAN FIRST FLOOR AREA 'B'		●	●										
P-1001C	UNDERFLOOR PLAN FIRST FLOOR AREAS 'C' & 'D'		●	●		●	●							
P-1001D	UNDERFLOOR PLAN FIRST FLOOR ENGINEERING AND BASEMENT		●	●										●
P-2001A	PLUMBING PLAN FIRST FLOOR AREA 'A'		●	●		●								
P-2001B	PLUMBING PLAN FIRST FLOOR AREA 'B'		●	●										
P-2001C	PLUMBING PLAN FIRST FLOOR AREAS 'C' & 'D'		●			●								
P-2001D	PLUMBING PLAN FIRST FLOOR ENGINEERING AND BASEMENT		●											●
P-2001E	PLUMBING PLAN FIRST FLOOR CENTRAL PLANT		●											
P-2002	PLUMBING PLAN SECOND FLOOR		●	●		●	●							
P-2003	PLUMBING PLAN THIRD FLOOR		●	●		●	●							
P-2004	PLUMBING PLAN FOURTH FLOOR		●	●		●	●							
P-2005	PLUMBING PLAN FIFTH FLOOR		●	●		●	●							
P-3001A	MEDICAL GAS PLAN FIRST FLOOR AREA 'A'		●				●							
P-3001B	MEDICAL GAS PLAN FIRST FLOOR AREA 'B'		●			●								
P-3001C	MEDICAL GAS PLAN FIRST FLOOR AREA 'C' & 'D'		●											
P-3001D	MEDICAL GAS PLAN FIRST FLOOR ENGINEERING AND BASEMENT		●											●
P-3001E	MEDICAL GAS PLAN FIRST FLOOR ENGINEERING		●											
P-3002	MEDICAL GAS PLAN SECOND FLOOR		●											
P-3003	MEDICAL GAS PLAN THIRD FLOOR		●											
P-3004	MEDICAL GAS PLAN FOURTH FLOOR		●											
P-3005	MEDICAL GAS PLAN FIFTH FLOOR		●											
P-5001	ENLARGED PLANS		●	●			●							
P-5002	ENLARGED PLANS		●	●										
P-6001	PLUMBING DETAILS		●			●								
P-6002	PLUMBING DETAILS		●	●										
P-6003	FIRE PROTECTION DETAILS		●											
P-7001	DOMESTIC WATER FLOW DIAGRAM		●	●										
P-7002	FIRE PROTECTION WATER FLOW DIAGRAM		●											
P-7003	MEDICAL GAS RISER DIAGRAM		●	●										
P-7004	PLUMBING RISER DIAGRAM		●											
P-7005	FUEL OIL SYSTEM PIPING DIAGRAM		●											
P-8001	PLUMBING FIXTURE SCHEDULE		●	●		●								
P-8002	PLUMBING EQUIPMENT SCHEDULES		●	●										
E-1000	OVERALL SITE ELECTRICAL PLAN		●	●										
E-1001A	PARTIAL SITE ELECTRICAL PLAN		●			●								
E-1001B	PARTIAL SITE ELECTRICAL PLAN		●	●										●
E-1002	PHOTOMETRICS PLAN		●											
ED-2001A	POWER DEMO PLAN FIRST FLOOR AREA 'A'		●											
ED-2001B	POWER DEMO PLAN FIRST FLOOR AREA 'B'		●											
ED-2001C	POWER DEMO PLAN FIRST FLOOR AREAS 'C' & 'D'		●	●										
ED-2001D	POWER DEMO PLAN FIRST FLOOR ENGINEERING		●											
ED-3001A	LIGHTING DEMO PLAN FIRST FLOOR AREA 'A'		●											
ED-3001B	LIGHTING DEMO PLAN FIRST FLOOR AREA 'B'		●											
ED-3001C	LIGHTING DEMO PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
ED-3001D	LIGHTING DEMO PLAN FIRST FLOOR ENGINEERING		●											
E-2001A	POWER PLAN FIRST FLOOR AREA 'A'		●											
E-2001B	POWER PLAN FIRST FLOOR AREA 'B'		●											
E-2001C	POWER PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
E-2001D	POWER PLAN FIRST FLOOR ENGINEERING, MECHANICAL ROOM, AND BASEMENT		●											●
E-2002	POWER PLAN SECOND FLOOR		●	●										
E-2003	POWER PLAN THIRD FLOOR		●											
E-2004	POWER PLAN FOURTH FLOOR		●											
E-2005	POWER PLAN FIFTH AND SIXTH FLOOR		●	●										
E-3001A	LIGHTING PLAN FIRST FLOOR AREA 'A'		●											
E-3001B	LIGHTING PLAN FIRST FLOOR AREA 'B'		●											
E-3001C	LIGHTING PLAN FIRST FLOOR AREA 'C'		●											
E-3001D	LIGHTING PLAN FIRST FLOOR ENGINEERING AND BASEMENT		●											●
E-3002	LIGHTING PLAN SECOND FLOOR		●	●										
E-3003	LIGHTING PLAN THIRD FLOOR		●	●										
E-3004	LIGHTING PLAN FOURTH FLOOR		●	●										
E-3005	LIGHTING PLAN FIFTH AND SIXTH FLOOR		●	●										
E-4000B	SPECIAL SYSTEMS PLAN FIRST FLOOR AREA 'C'		●											●
E-4001A	SPECIAL SYSTEMS PLAN FIRST FLOOR AREA 'A'		●											
E-4001B	SPECIAL SYSTEMS PLAN FIRST FLOOR AREA 'B'		●											
E-4001C	SPECIAL SYSTEMS PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
E-4001D	SPECIAL SYSTEMS PLAN FIRST FLOOR ENGINEERING		●											
E-4002	SPECIAL SYSTEMS PLAN SECOND FLOOR		●											
E-4003	SPECIAL SYSTEMS PLAN THIRD FLOOR		●											
E-4004	SPECIAL SYSTEMS PLAN FOURTH FLOOR		●											
E-4005	SPECIAL SYSTEMS PLAN FIFTH AND SIXTH FLOOR		●											
E-5001	ENLARGED CENTRAL PLANT AND MAIN ELECTRICAL ROOM PLANS		●	●		●		●						
E-5001T	ENLARGED ELECTRICAL TEMP CHILLER PLAN						●							
E-5002	ENLARGED MECHANICAL ROOM PLANS		●			●								
E-5003	ENLARGED MECHANICAL AND PBX ROOMS		●	●										
E-5004	ENLARGED I.S. AND ELECTRICAL ROOM PLANS		●	●										
E-5005	ENLARGED EXISTING ELECTRICAL ROOM PLANS		●											
E-5006	ENLARGED PATIENT AND ICU ELECTRICAL ROOMS		●											
E-6000	ONE LINE DIAGRAM SYMBOLS & SCHEDULES (ERP #3 SHEET)													
E-6001	EXISTING NORMAL POWER ONE-LINE DIAGRAM		●	●	●		●							
E-6002	NEW NORMAL POWER ONE-LINE DIAGRAM		●	●	●	●						●		●
E-6003	EXISTING EMERGENCY POWER ONE-LINE DIAGRAM		●	●	●							●		●
E-6004	PARTIAL EXISTING & NEW EMERGENCY POWER ONE-LINE DIAGRAM		●	●	●									
E-6005	HOSPITAL ELECTRICAL RISER DIAGRAM		●			●								●
E-6006	NEW EXPANSION ELECTRICAL RISER DIAGRAM		●											
E-6007	NEW EXPANSION GROUNDING RISER DIAGRAM		●											
E-6008	DOOR ACCESS RISER DIAGRAMS		●											
E-7001	ELECTRICAL DETAILS		●										●	
E-7002	ELECTRICAL DETAILS		●											
E-7003	ELECTRICAL DETAILS		●											
E-7004	ELECTRICAL DETAILS		●	●										
E-8001	ELECTRICAL LIGHTING SCHEDULES		●											
E-8002	ELECTRICAL LIGHTING SCHEDULES		●											
E-8003	ELECTRICAL PANEL SCHEDULES		●										●	
E-8004	ELECTRICAL PANEL SCHEDULES		●											
E-8005	ELECTRICAL PANEL SCHEDULES		●	●									●	●
E-8006	ELECTRICAL PANEL SCHEDULES		●	●										
E-8007	ELECTRICAL PANEL SCHEDULES		●	●										
E-8008	ELECTRICAL PANEL SCHEDULES		●	●	●									●
E-8009	ELECTRICAL PANEL SCHEDULES		●											
CM-0000	GENERAL INFORMATION COMMUNICATION		●									●		
CM-1000	OVERALL SITE COMMUNICATIONS PLAN		●											
CM-1100	OVERALL PLAN COMMUNICATIONS		●											
CM-2001A	COMMUNICATION PLAN FIRST FLOOR AREA 'A'		●											
CM-2001B	COMMUNICATION PLAN FIRST FLOOR AREA 'B'		●											
CM-2001C	COMMUNICATION PLAN FIRST FLOOR AREAS 'C' & 'D'		●											
CM-2001D	COMMUNICATION PLAN FIRST FLOOR ENGINEERING		●											
CM-2002	COMMUNICATION PLAN SECOND FLOOR		●											
CM-2003	COMMUNICATION PLAN THIRD FLOOR		●											
CM-2004	COMMUNICATION PLAN FOURTH FLOOR		●											
CM-2005	COMMUNICATION PLAN FIFTH FLOOR		●											
CM-2006	COMMUNICATION PLAN SIXTH FLOOR		●											
CM-3000	LOW VOLTAGE INFORMATION SHEET		●											
CM-3001A	LOW VOLTAGE PLAN FIRST FLOOR AREA 'A'		●									●		
CM-3001B	LOW VOLTAGE PLAN FIRST FLOOR AREA 'B'		●									●		
CM-3001C	LOW VOLTAGE PLAN FIRST FLOOR AREAS 'C' & 'D'		●									●		
CM-3001D	LOW VOLTAGE PLAN FIRST FLOOR ENGINEERING		●											
CM-3002	LOW VOLTAGE PLAN SECOND FLOOR		●									●		
CM-3003	LOW VOLTAGE PLAN THIRD FLOOR		●									●		
CM-3004	LOW VOLTAGE PLAN FOURTH FLOOR		●									●		
CM-3005	LOW VOLTAGE PLAN FIFTH FLOOR		●									●		
CM-5001	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5002	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5003	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5004	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5005	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5006	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5007	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5008	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-5009	ENLARGED COMMUNICATION ROOM PLAN AND ELEVATIONS		●											
CM-6001	RISER DIAGRAM & DETAILS COMMUNICATION		●											

PHILIPS CARDIAC AND MONITORING SYSTEMS

		ISSUE	03 100% Construction Issue	Addendum #2 Issue	02 #1 Issue	02 #2 Issue	03 #1 Issue	03 #2 Issue	PR #1 Issue	PR #2 Issue	PR #3 Issue	PR #4 Issue	PR #13 Issue
		DATE	08-24-06	11-14-06	02-12-07	02-23-07	03-21-07	04-27-07	05-08-07	07-06-07	08-02-07	09-04-07	10-12-07
PAGE 1	INDEX		●										
PAGE 2	2ND FLOOR TELEMETRY PLAN		●										
PAGE 3	EQUIPMENT ELEVATIONS		●										
PAGE 4	3RD FLOOR MONITORING PLAN		●										
PAGE 5	EQUIPMENT ELEVATIONS		●										
PAGE 6	4TH FLOOR TELEMETRY PLAN		●										
PAGE 7	EQUIPMENT ELEVATIONS		●										
PAGE 8	5TH FLOOR TELEMETRY PLAN		●										
PAGE 9	EQUIPMENT ELEVATIONS		●										
PAGE 10	WALL MOUNTING INSTRUCTIONS		●										

PHILIPS NUCLEAR MEDICINE SYSTEM

		ISSUE	03 100% Construction Issue	Addendum #2 Issue	02 #1 Issue	02 #2 Issue	03 #1 Issue	03 #2 Issue	PR #1 Issue	PR #2 Issue	PR #3 Issue	PR #4 Issue	PR #13 Issue
		DATE	08-24-06	11-14-06	02-12-07	02-23-07	03-21-07	04-27-07	05-08-07	07-06-07	08-02-07	09-04-07	10-12-07
C1	INDEX		●										
AN	GENERAL NOTES		●										
A1	EQUIPMENT PLAN		●										

STORAGE SYSTEMS

		ISSUE	03 100% Construction Issue	02 #1 Issue	02 #2 Issue	03 #1 Issue	03 #2 Issue	PR #1 Issue	PR #2 Issue	PR #3 Issue	PR #4 Issue	PR #13 Issue
		DATE	08-24-06	02-12-07	02-23-07	03-21-07	04-27-07	05-08-07	07-06-07	08-02-07	09-04-07	10-12-07
SS-1	STORAGE SYSTEMS LAYOUT		●									
SS-2	STORAGE SYSTEMS LAYOUT		●									
SS-3	STORAGE SYSTEMS LAYOUT		●									
SS-4	STORAGE SYSTEMS LAYOUT		●									
SS-5	STORAGE SYSTEMS LAYOUT		●									
SS-6	STORAGE SYSTEMS ELEVATIONS		●									

TELEVISIONS

		ISSUE	03 100% Construction Issue	02 #1 Issue	02 #2 Issue	03 #1 Issue	03 #2 Issue	PR #1 Issue	PR #2 Issue	PR #3 Issue	PR #4 Issue	PR #13 Issue
		DATE	08-24-06	02-12-07	02-23-07	03-21-07	04-27-07	05-08-07	07-06-07	08-02-07	09-04-07	10-12-07
1	TELEVISION LAYOUT - FIRST FLOOR		●									
2	TELEVISION LAYOUT - SECOND FLOOR		●									
3	TELEVISION LAYOUT - THIRD FLOOR		●									
4	TELEVISION LAYOUT - FOURTH FLOOR		●									
5	TELEVISION LAYOUT - FIFTH FLOOR		●									
6	LEGENDS, NOTES AND DETAILS		●									

PNEUMATIC TUBE SYSTEMS

		ISSUE	03 100% Construction Issue	PR #1 Issue
		DATE	08-24-06	10-12-07
PT-1 008	MECHANICAL RISER DIAGRAM		●	●

NO Change
2007206858

This sheet of drawings has not been reviewed for code compliance.

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Aurora, Colorado

HCA
Project # 306660001

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STATE OF COLORADO
TRUDY L. McDOUGAL
203601
LICENSED ARCHITECT
10-16-07

Revisions

NO.	ISSUE	DATE
1	PR #12	09.14.07
2	PR #13	10.12.07

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Date	08-24-2006
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Checked	DE
Approved	CC

Title

INDEX OF DRAWINGS

Sheet

G-0002

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Oct 16, 2007 - 2:32pm
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kmoore

GENERAL NOTES

A. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES IN FRONT OF EQUIPMENT.

B. ANY DEVIATIONS FROM SCHEDULED EQUIPMENT RESULTING IN ADDITIONAL COSTS DUE TO LACK OF COORDINATION WITH DIMENSIONS AND WEIGHTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR.

C. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO F/S DAMPERS, VAV BOXES, FCU'S, ETC WITH MECHANICAL DRAWINGS.

D. ALL EXTERIOR DISCONNECTS TO BE WEATHERPROOF IN A NEMA 3R ENCLOSURE.

E. ALL EXTERIOR RECEPTACLES SHALL BE GFCI/WEATHERPROOF.

LEGEND NOTES

1. JUNCTION BOX SHOWN FOR 120V EQUIPMENT POWER CONNECTION TO DDC CONTROL PANELS IN THIS AREA. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION/REQUIREMENTS.
2. JUNCTION BOX FOR 120V NORMAL POWER CONNECTION TO ALL MOTORIZED DAMPERS AND CONTROLS FOR THIS AIR HANDLING UNIT. COORDINATE CONNECTION AND LOCATION WITH MECHANICAL EQUIPMENT.
3. ELECTRICAL CONNECTION FOR 120V NORMAL POWER TO AHU LIGHTS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL EQUIPMENT.
4. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR HANDLING UNIT. REFER TO DETAIL 03/E-7002 FOR ADDITIONAL INFORMATION.
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR DUCT OF AIR HANDLING UNIT. REFER TO DETAIL 03/E-7002 FOR ADDITIONAL INFORMATION.
6. CONNECT ALL FIRE/SMOKE AND MISC. MOTORIZED DAMPERS IN THIS AREA TO EMERGENCY EQUIPMENT CIRCUIT INDICATED. PROVIDE SEPARATE RELAYS FOR EACH FIRE ZONE TO MEET MECHANICAL SEQUENCE. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR SMOKE WALLS, AND MECHANICAL PLANS FOR LOCATIONS OF ALL FIRE/SMOKE AND MOTORIZED DAMPERS.
7. JUNCTION BOX SHOWN FOR 120V EQUIPMENT POWER CONNECTION TO DDC CONTROL PANELS IN THIS AREA. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS.
8. CIRCUIT TO AN AVAILABLE 20A/1P CIRCUIT BREAKER IN NEAREST 120/208V CRITICAL BRANCH PANEL BOARD.
9. NEW DISTRIBUTION PANEL "DPGC" TO REPLACE EXISTING DISTRIBUTION PANEL IN SAME LOCATION. IF EXISTING PANEL CAN BE MODIFIED TO ACCOMMODATE NEW LOADS, RE-USE EXISTING DISTRIBUTION PANEL. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
10. REFER TO LIGHTING RELAY PANEL DETAIL ON 07/E-7003 FOR PANEL SCHEDULE AND MANUFACTURER INFORMATION.
11. JUNCTION BOX SHOWN FOR CONNECTION TO PRE-ACTION CONTROL PANEL IN THIS AREA. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION/REQUIREMENTS.
12. JUNCTION BOX SHOWN FOR CONNECTION TO PRE-ACTION AIR COMPRESSOR IN THIS AREA. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION/REQUIREMENTS.
13. JUNCTION BOX SHOWN FOR CONNECTION TO DRY-PIPE AIR COMPRESSOR IN THIS AREA. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION/REQUIREMENTS.
14. LOCATION OF NEW EMERGENCY POWER OFF SWITCH. REFER TO DETAIL 01/E-7001 FOR FURTHER INFORMATION.
15. PROVIDE 480V CONNECTION TO HOT WATER RECIRCULATION PUMPS IN THIS AREA. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION/REQUIREMENTS.
16. RE-ROUTE EXISTING CONDUITS FROM GENERATOR "C" TO MAIN DISTRIBUTION PANELS OVER NEW GARAGE DOOR OPENING. COORDINATE HEIGHT AND LOCATION WITH NEW OPENING AND ARCHITECTURAL ELEVATIONS. COORDINATE DOWNTIME WITH FACILITY AND ARCHITECT.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 03 2007

Note:
2007206858
* Approval receipt to include clouded work & Circuit Breaker Coordination Study info. for which liability of actual Coordination performance remains solely w/ Engineer.

02 ENLARGED CENTRAL PLANT
SCALE: 1/4" = 1'-0"

01 ENLARGED 1ST FLOOR PARTIAL PLANS
SCALE: 1/4" = 1'-0"

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AUGUST 24, 2006 - 100% CD'S ISSUED FOR PERMIT & CONSTRUCTION

COLORADO REGISTERED PROFESSIONAL ENGINEER 31031 10/15/07

NO.	ISSUE	DATE
	Revisions	
1	ADDENDUM #2	10/31/06
2	ASI #3	03/12/07
3	RFI #182	03/22/07
4	PR #1	04/27/07
5	PR #6	07/24/07
6	PR #13	10/12/07

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Title

ENLARGED CENTRAL PLANT & MAIN ELECTRICAL ROOM PLANS

Sheet

E-5001

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F:\2005 Projects\2005555 Medical Center of Aurora Expansion\Drawings\Construction Documents\SSSE-5001(HPE).dwg
Don Seeley, CCRD Partners 06/01/2007 - 12:40PM

GENERAL NOTES:

A. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE ON SHEET E-6000 AND ARE DESIGNATED BY A RECTANGULAR TAG ([###]) ON EACH FEEDER UNLESS NOTED OTHERWISE.

B. REFER TO E-6000 FOR ONE-LINE DIAGRAM SYMBOLS AND SCHEDULES.

LEGEND NOTES:

1. SIZE TVSS OVERCURRENT PROTECTION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE MECHANICAL AND ELECTRONIC LOCK OUT TO ALLOW ONLY ONE CIRCUIT BREAKER TO BE IN THE CLOSED POSITION AT ANY TIME.
3. WHERE THE ATS PROPOSED FOR THE WORK MEETS THE REQUIRED AIC RATING INDICATED BY ONE OF THE FOLLOWING METHODS
   1. UPSIZED TRANSFER SWITCH FRAME
   2. SPECIFIC BREAKER COORDINATION
   3. ANY BREAKER RATING
   4. FUSED DISCONNECT INTEGRAL IN ATS

   PROVIDE A DEDUCT ALTERNATE TO REMOVE CLASS J FUSED DISCONNECT SWITCHES SHOWN TO ATS. COORDINATE LAYOUT OF ELECTRICAL ROOM WITH PROPOSED EQUIPMENT.
4. TEMPORARY GENERATOR CONNECTION CABINET EQUAL TO CUTLER-HAMMER LOW VOLTAGE "GENERATOR QUICK CONNECT SWITCHBOARD", NEMA 3R CONSTRUCTION, WITH EXTRA TALL DOOR TO ACCOMMODATE (8) PARALLELED SETS OF CABLE FROM TEMPORARY GENERATOR. AMPERE RATING AS INDICATED. GENERATOR BREAKER LOAD CONNECTIONS MUST BE ACCESSIBLE FROM FRONT ONLY – REAR OR SIDE ACCESS IS NOT AVAILABLE. REFER TO E-1001B FOR EXACT LOCATION.

"HMSBA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	X-RAY	ELEV	KTCH	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	27.7	90.2	1331.1	860.2	0.0	143.0	0.0	60.0	64.0	2576.1	3098.6
DEMAND FACTOR	SEE DEMAND FACTOR TABLE										
TOTAL DEMAND LOAD	28.0	50.0	1435.5	182.0	0.0	121.6	0.0	60.0	64.0	1941.1	2334.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	35.0	50.0	1435.5	182.0	0.0	121.6	0.0	60.0	64.0	1948.1	2343.1

"1DPLSH" LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	22.5	0.0	2.0	3.1	27.6	33.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	23.0	0.0	0.8	3.0	26.8	32.2
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	28.8	0.0	0.8	3.0	32.6	39.2

"1DPCRH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.7	64.7	55.8	412.8	0.0	3.8	517.8	622.6
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	1.0	27.5	64.3	92.6	0.0	4.0	189.3	227.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00			
TOTAL DESIGN LOAD	1.3	27.5	64.3	92.6	0.0	4.0	189.6	228.1

"4DPCRL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.7	22.6	0.0	112.3	0.0	0.5	136.1	377.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	1.0	16.5	0.0	32.4	0.0	0.0	49.9	138.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00			
TOTAL DESIGN LOAD	1.3	16.5	0.0	32.4	0.0	0.0	50.2	139.2

"2DPCRL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	22.1	0.0	243.1	0.0	3.3	268.5	745.4
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	18.0	0.0	58.8	0.0	3.0	77.6	215.4
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	18.0	0.0	58.6	0.0	3.0	77.6	215.4

"1DPNH" LOAD SUMMARY

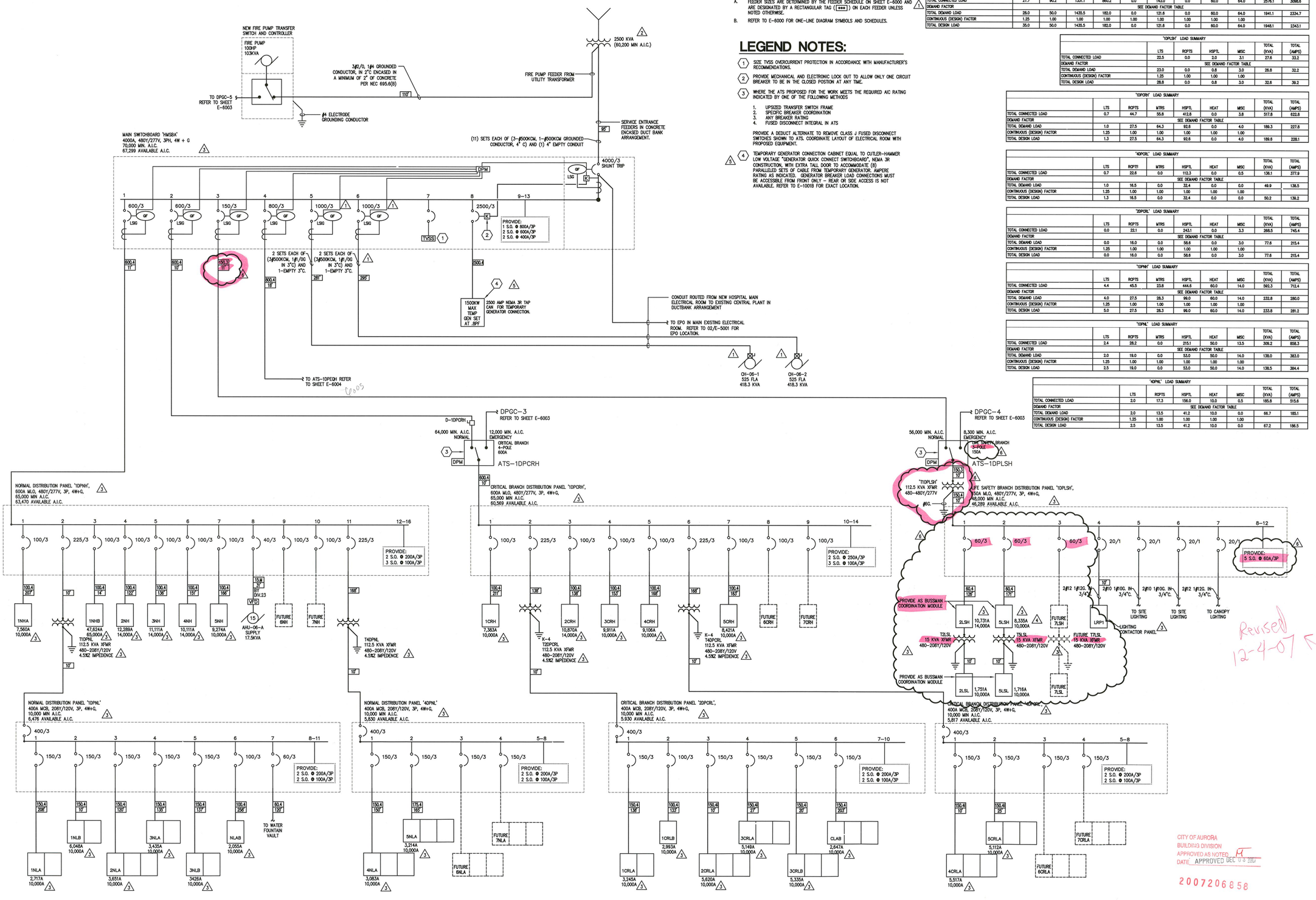
	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	4.4	45.5	23.8	444.8	60.0	14.0	592.3	712.4
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	4.0	27.5	28.3	99.0	60.0	14.0	232.8	280.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	5.0	27.5	28.3	99.0	60.0	14.0	233.8	281.2

"1DPNL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	2.4	28.2	0.0	215.1	50.0	13.5	309.2	858.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	2.0	18.0	0.0	53.0	50.0	14.0	138.0	383.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	2.5	18.0	0.0	53.0	50.0	14.0	138.5	384.4

"4DPNL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	2.0	17.3	156.0	10.0	0.5	185.8	515.6	
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	2.0	13.5	41.2	10.0	0.0	66.7	185.1	
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00			
TOTAL DESIGN LOAD	2.5	13.5	41.2	10.0	0.0	67.2	186.5	



NEW NORMAL & EMERGENCY POWER ONE-LINE DIAGRAM

01 NO SCALE

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 13 2007

2007206858

Revised 12-4-07

10/15/07

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4	ASI #4	03/27/07
5	PR #6	07/24/07
6	PR #13	10/12/07

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NEW NORMAL AND EMERGENCY POWER ONE-LINE DIAGRAM

Sheet

E-6002

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Dan Seeley, CCRD Partners 06/01/2007 - 12:49PM

GENERAL NOTES:

A. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE ON SHEET E-6000 AND ARE DESIGNATED BY A RECTANGULAR TAG (###) ON EACH FEEDER UNLESS NOTED OTHERWISE.

B. REFER TO E-6000 FOR ONE-LINE DIAGRAM SYMBOLS AND SCHEDULES.

LEGEND NOTES:

1. EXISTING DISTRIBUTION PANEL TO BE DEMOLISHED AND REPLACED WITH NEW DISTRIBUTION PANEL IN SAME LOCATION AS INDICATED. IF EXISTING DISTRIBUTION PANEL CAN BE MODIFIED TO ACCOMODATE NEW LOADS, EXISTING DISTRIBUTION PANEL MAY BE RE-USED.
2. 1200A TEMPORARY GENERATOR CONNECTION CABINET EQUAL TO CUTLER-HAMMER LOW VOLTAGE "GENERATOR QUICK CONNECT SWITCHBOARD", NEMA 3R CONSTRUCTION, WITH EXTRA TALL DOOR TO ACCOMMODATE (8) PARALLELED SETS OF CABLE FROM TEMPORARY GENERATOR. REFER TO E-1001B FOR EXACT LOCATION.
3. PROVIDE MECHANICAL AND ELECTRONIC LOCK OUT TO ALLOW ONLY ONE CIRCUIT BREAKER TO BE IN THE CLOSED POSITION AT ANY TIME.
4. EXISTING FEEDERS TO BE REMOVED AND RE-PULLED TO ACCOMODATE NEW GARAGE DOOR IN CENTRAL PLANT. REFER TO ENLARGED CENTRAL PLANT PLAN, 02/E-5001 FOR ADDITIONAL INFORMATION.

EXISTING 600KW/750KVA, 480V, .8PF, 902A, W/GROUND FAULT INDICATION EMERGENCY DIESEL ENGINE GENERATOR B (CUMMINS)

EXISTING 1250KW/1500KVA, 480V, .8PF W/GROUND FAULT INDICATION EMERGENCY DIESEL ENGINE GENERATOR C (CUMMINS)

EXISTING 600KW/750KVA, 480V, .8PF, 902A W/GROUND FAULT INDICATION EMERGENCY DIESEL ENGINE GENERATOR A (CUMMINS)

GEN B — 1200/3

GEN C — 1200/3, 800/3

GEN A — 1200/3

(4 SETS) 3#350KCM, 1#350KCM N, 1#3/0 G, 3"C

600KW 3ØMP GEN SET AT .8PF

1200 AMP NEMA 3R TAP CAN WITH FULLY RATED BUSBARS FOR TEMPORARY GENERATOR CONNECTION.

EXISTING DISTRIBUTION PANEL 'DPDC'
1200A MLO, 480Y/277V, 3P, 4W+G

NEW MAIN DISTRIBUTION PANEL 'DPDC', 1200A MCB, 480Y/277V, 3P, 4W+G, 42,000 MIN A.I.C. 16,514 AVAILABLE A.I.C.

1200/3 — 1 | 2 | 3 | 4 | 5 | 6 | 7–10

600/3 LSI | 800/3 LSI | 600/3 LSI | 150/3 LSI | 225/3 LSI | 1200/3 LSI

PROVIDE:
1 S.O. @ 800A/3P
2 S.O. @ 600A/3P
1 S.O. @ 400A/3P

600KW 3ØMP GEN SET AT .8PF

600KW 3ØMP TEMP GEN SET AT .8PF

1000KW MAX TEMP GEN SET AT .8PF

FEEDERS ROUTED FROM EXISTING CENTRAL PLANT TO NEW MAIN EMERGENCY ELECTRICAL ROOM IN CONCRETE ENCASED DUCTBANK ARRANGEMENT

TO ATS-1DPEQH REFER TO SHEET E-6005

TO ATS-1DPLSH REFER TO SHEET E-6002

TO ATS-1DPCRH REFER TO SHEET E-6002

TO FIRE PUMP TRANSFER SWITCH REFER TO SHEET E-6002

TO MSBA-6 REFER TO E-6001

TO MSBA-5 REFER TO E-6001

TO "QHTF"

EQUIPMENT BRANCH OPEN TRANSITION 4-POLE 800A (CUMMINS) ATS—800A

EQUIPMENT BRANCH OPEN TRANSITION 4-POLE 1200A (CUMMINS) ATS DPEQC

EXISTING DISTRIBUTION PANEL 'MTSB'
1200A MLO, 480Y/277V, 3P, 4W+G
10,000 MIN A.I.C.
5,302 AVAILABLE A.I.C.

EXISTING DISTRIBUTION PANEL 'MTSA'
1200A MLO, 480Y/277V, 3P, 4W+G
6,984 AVAILABLE A.I.C.

RSN 283668
See Revisions ge
APPROVED DEC 05 2007

"DPDC" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	X-RAY	ELEV	KTCH	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	23.3	64.7	569.0	513.4	0.0	143.0	0.0	0.0	50.0	1343.4	1815.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE										
TOTAL DEMAND LOAD	23.0	27.5	563.8	112.6	0.0	121.6	0.0	0.0	50.0	928.4	1116.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	28.8	27.5	563.8	112.6	0.0	121.6	0.0	0.0	50.0	854.2	1123.6

EXISTING DISTRIBUTION PANEL SGDP
A.I.C. RATING: 25,000 A
5,289 AVAILABLE A.I.C.

EXISTING LOAD	250 KVA	300.7 A (2)
NEW LOAD	4.0 KVA	4.8 A
TOTAL LOAD	254 KVA	305.5 A

EXISTING EMERGENCY DISTRIBUTION PANEL 'SGDP'
1200A MLO, 480Y/277V, 3PH, 4W + G

800/3 | 600/3 | 225/3 | 225/3 | SPACE

(2 SETS) 3#350KCM, 1#350KCM N, 1#1 G, 2-1/2" C — TO SSB-2 REFER TO E-6001 — 5'

CRITICAL BRANCH OPEN TRANSITION 4-POLE 600A (ZENITH) ATS—CR

EXISTING EMERGENCY DISTRIBUTION PANEL 'DPEQC'
1200A MLO, 480Y/277V, 3PH, 4W + G

XXX/3 SPARE | 60/3 | 175/3 | 20/3 | 20/3

EXISTING DISTRIBUTION PANEL DPEQC
A.I.C. RATING: 100,000 A
48,471 AVAILABLE A.I.C.

EXISTING LOAD	97.8 KVA	117.7 A (2)

EXISTING EMERGENCY DISTRIBUTION PANEL 'QPDPA'
1200A MLO, 480Y/277V, 3PH, 4W + G

SPACE | 800/3 (600/3) | 225/3 | 225/3 | SPACE

800.4 — 15'

EXISTING DISTRIBUTINO PANEL 'QPDPA'
A.I.C. RATING: 42,000 A
6,964 AVAILABLE A.I.C.

EXISTING LOAD	420.7 KVA	506 A (2)
NEW LOAD	242.3 KVA	291.4 A (1)
REMOVED LOAD	–89.8 KVA	–108 A
TOTAL LOAD	573.1 KVA	689.4 A

3#1/0, 1#1/0 N, 1#6 G, 2" C — 8' — TO MDP2-4 REFER TO E-6001

CRITICAL BRANCH OPEN TRANSITION 4-POLE 225A (KOHLER) ATS #2 (1A)

3#4/0, 1#4/0 N, 1#4 G, 2-1/2" C — 15'

EXISTING DISTRIBUTION PANEL 'QPDP'
A.I.C. RATING: 10,000 A
6,757 AVAILABLE A.I.C.

EXISTING LOAD	360 KVA	433 A
NEW LOAD	241.3 KVA	290.2 A (1)
REMOVED LOAD	–89.8 KVA	–108 A
TOTAL LOAD	511.5 KVA	615.2 A

EXISTING DISTRIBUTION PANEL 'QPDP'
1200A MLO, 480Y/277V, 3P, 4W+G

600/3 | 400/3 | 200/3 | SPACE

(2 SETS) 3#350KCM, 1#350KCM N, 1#1 G, 2-1/2" C — 15' — TO EQUIPMENT ATS #1 ("EQP1") REFER TO E-6004

EXISTING DISTRIBUTION PANEL 'QBDPA'
A.I.C. RATING: 25,000 A
12,553 AVAILABLE A.I.C.

EXISTING LOAD	60.7 KVA	73 A (2)
NEW LOAD	1.0 KVA	1.2 A
TOTAL LOAD	61.7 KVA	74.2 A

EXISTING DISTRIBUTION PANEL 'QBDPA'
250A, 480Y/277V, 3P, 4W+G

150/3 | 150/3 | 100/3 | 100/3 | SPACE

3#4/0, 1#4 G, 2" C — 5'

EXISTING T-LQBDPA 112.5 KVA XFMR 480–208/120V 4.5%Z IMPEDENCE

(2 SETS) 3#3/0, 1#3/0 N, 1#3 G, 2" C — 8'

EXISTING DISTRIBUTION PANEL 'LQBDPA'
A.I.C. RATING: 10,000 A
5,540 AVAILABLE A.I.C.

EXISTING LOAD	26.3 KVA	73 A (2)
NEW LOAD	1.0 KVA	2.8 A
TOTAL LOAD	27.3 KVA	75.8 A

EXISTING DISTRIBUTION PANEL 'LQBDPA'
400A MCB, 208/120V, 3P, 4W+G

400/3 | 100/3 | 100/3 | 100/3 | 100/3 | SPACE

3#1, 1#1 N, 1#6 G, 1-1/2" C — 157' — LCB3A

EXISTING PANEL 'LCB3A'
A.I.C. RATING: 10,000 A
2,629 AVAILABLE A.I.C.

EXISTING LOAD	7 KVA	19.4 A (2)
NEW LOAD	1.0 KVA	2.8 A
TOTAL LOAD	8 KVA	22.2 A

EXISTING DISTRIBUTION PANEL 'CR'
A.I.C. RATING: 50,000 A
44,117 AVAILABLE A.I.C.

EXISTING LOAD	117.8 KVA	141.7 A (2)
NEW LOAD	4.0 KVA	4.8 A
TOTAL LOAD	121.8 KVA	146.5 A

(2 SETS) 3#350KCM, 1#350KCM N, 1#1 G, 2-1/2" C — 8'

EXISTING DISTRIBUTION PANEL 'CR'
800A MLO, 480Y/277V, 3P, 4W+G

125/3 | SPACE | 150/3 | SPACE | 225/3 SPARE | 400/3

(2 SETS) 3#3/0, 1#3/0 N, 1#3 G, 2-1/2" C — 258'

3#1/0, 1#1/0 N, 1#6 G, 2" C — 308' — CH1B

3#1/0, 1#6 G, 1-1/2" C — 8'

3#250KCM, 1#250KCM N, 1#4 G, 2-1/2" C — 5' — CL1B

EXISTING T-CL1B 75 KVA XFMR 480–208Y/120V 3.2%Z IMPEDENCE

EXISTING PANEL CH1B
A.I.C. RATING: 42,000 A
6,155 AVAILABLE A.I.C.

EXISTING LOAD	48 KVA	57.7 A (2)
NEW LOAD	3.2 KVA	3.8 A
TOTAL LOAD	51.2 KVA	61.5 A

EXISTING PANEL CL1B
A.I.C. RATING: 10,000 A
2,912 AVAILABLE A.I.C.

EXISTING LOAD	22 KVA	61.1 A (2)
NEW LOAD	2.8 KVA	7.8 A
TOTAL LOAD	24.8 KVA	68.9 A

EXISTING DISTRIBUTION PANEL 'CHDP'
400A MLO, 480Y/277V, 3P, 4W+G

XXX/3 SPARE | XXX/3 SPARE | XXX/3 SPARE | XXX/3 SPARE | 100/3 | 100/3 | 175/3 | 175/3

EXISTING DISTRIBUTION PANEL 'CHDP'
A.I.C. RATING: 42,000 A
17,157 AVAILABLE A.I.C.

EXISTING LOAD	65.4 KVA	78.7 A (2)
NEW LOAD	0.8 KVA	0.96 A
TOTAL LOAD	66.2 KVA	79.66 A

3#4/0, 1#4 G, 2" C — 23' — EXISTING T-CL1G 112.5 KVA XFMR 480–208/120V 4.5%Z IMPEDENCE — 15'

(2 SETS) 3#3/0, 3#3/0 N, 1#3 G, 2" C — CL1G

EXISTING PANEL CL1G
A.I.C. RATING: 10,000 A
5,729 AVAILABLE A.I.C.

EXISTING LOAD	31 KVA	86 A (2)
NEW LOAD	0.8 KVA	2.2 A
TOTAL LOAD	31.8 KVA	88.2 A

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 03 2007
2007206858

01 EXISTING EMERGENCY POWER ONE-LINE DIAGRAM
NO SCALE

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Medical Center of Aurora
South Campus
Private Room Expansion
Aurora, Colorado

HCA
Project # 306660001

In association with:

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AUGUST 24, 2006 - 100% CD'S ISSUED FOR PERMIT & CONSTRUCTION

COLORADO REGISTERED PROFESSIONAL ENGINEER 31031 — 10/15/07

Revisions

NO.	ISSUE	DATE
1	ADDENDUM #2	10/31/06
2	ASI #2	01/18/07
3	ASI #3	03/12/07
4	PR #6	07/24/07
5	PR #13	10/12/07

Sheet Information

Date	08-24-2006
Job Number	142228.000
Drawn	SG
Checked	SG
Approved	SG

Title

EXISTING EMERGENCY POWER ONE-LINE DIAGRAM

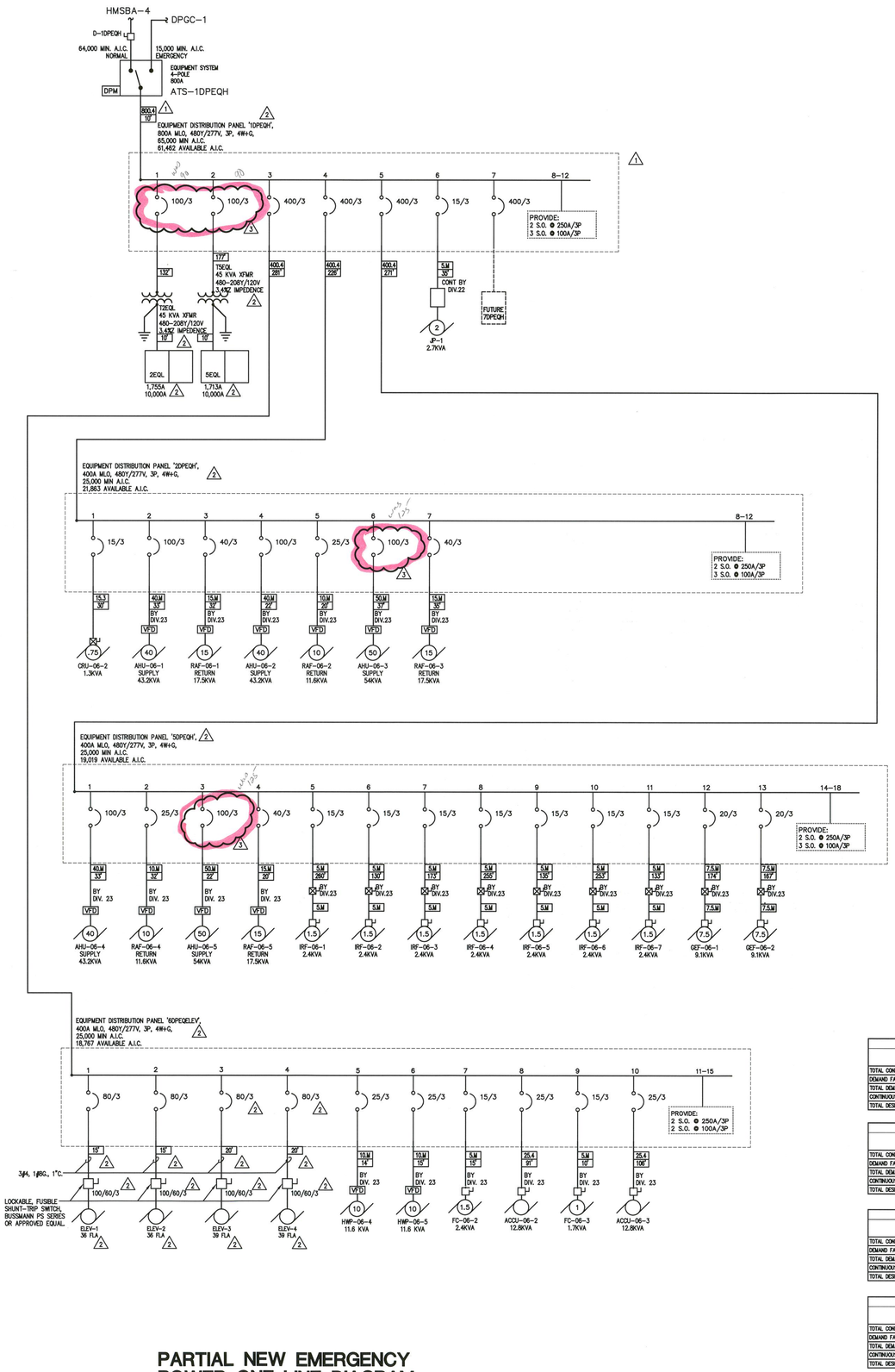
Sheet

E-6003

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Dan Seeley, CCRD Partners 06/01/2007 - 12:49PM



PARTIAL NEW EMERGENCY POWER ONE-LINE DIAGRAM

01 NO SCALE

GENERAL NOTES:

A. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE ON SHEET E-6000 AND ARE DESIGNATED BY A RECTANGULAR TAG (###) ON EACH FEEDER UNLESS NOTED OTHERWISE.

B. REFER TO E-6000 FOR ONE-LINE DIAGRAM SYMBOLS AND SCHEDULES.

"1DPEQH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	ELEV	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	415.0	0.8	143.0	0.0	43.1	601.9	723.9
DEMAND FACTOR				SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	428.5	0.4	121.6	0.0	43.0	593.5	713.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	428.5	0.4	121.6	0.0	43.0	593.5	713.8

"6DPEQELEV" LOAD SUMMARY

	LTS	RCPTS	MTRS	ELEV	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	53.0	143.0	0.0	0.0	196.0	235.8
DEMAND FACTOR			SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	56.3	121.6	0.0	0.0	177.8	213.9
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00			
TOTAL DESIGN LOAD	0.0	0.0	56.3	121.6	0.0	0.0	177.8	213.9

"2DPEQH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	188.4	0.0	0.0	0.0	188.4	226.6
DEMAND FACTOR				SEE DEMAND FACTOR TABLE				
TOTAL DEMAND LOAD	0.0	0.0	201.5	0.0	0.0	0.0	201.5	242.4
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	201.5	0.0	0.0	0.0	201.5	242.4

"3DPEQH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	161.4	0.0	0.0	0.0	161.4	194.2
DEMAND FACTOR				SEE DEMAND FACTOR TABLE				
TOTAL DEMAND LOAD	0.0	0.0	174.5	0.0	0.0	0.0	174.5	209.9
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	174.5	0.0	0.0	0.0	174.5	209.9

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 03 2007

2007206858

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AUGUST 24, 2006 - 100% CD'S ISSUED FOR PERMIT & CONSTRUCTION

10/15/07

Revisions

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Sheet Information

Date	08-24-2006
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Drawn	TR
Checked	SG
Approved	SG

Title

PARTIAL NEW EMERGENCY POWER ONE-LINE DIAGRAM

Sheet

E-6005

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06/01/2007 - 12:49PM
Dan Seeley, CCRD Partners

PANEL: 2NH — NORMAL

LOCATION: ELEC. 2094 | MAIN BUS: 100A | MCB: N/A | VOLTAGE: 480/277 | AIC: 14,000A
FED FROM: 1DPNH | WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. RM'S 2029-2094	4010	20	1	A	20	1	–	SPARE	2
3	LTG. RM'S 2076-2109	2800	20	1	B	20	1	–	SPARE	4
5	LTG. PAT. RM'S 2046-2068	2280	20	1	C	20	1	–	SPARE	6
7	LTG. PAT. RM'S 2002-2025	2280	20	1	A	20	1	–	SPARE	8
9	SPARE	–	20	1	B	20	1	–	SPARE	10
11	SPARE	–	20	1	C	20	1	–	SPARE	12
13	SPARE	–	20	1	A	20	1	–	SPARE	14
15	SPARE	–	20	1	B	20	1	–	SPARE	16
17	SPARE	–	20	1	C	20	1	–	SPARE	18
19	SPARE	–	20	1	A	20	1	–	SPARE	20
21	SPARE	–	20	1	B	20	1	–	SPARE	22
23	SPARE	–	20	1	C	20	1	–	SPARE	24
25	SPARE	–	20	1	A	20	1	–	SPARE	26
27	SPARE	–	20	1	B	20	1	–	SPARE	28
29	SPARE	–	20	1	C	20	1	–	SPARE	30
31	SPARE	–	20	1	A	20	1	–	SPARE	32
33	SPARE	–	20	1	B	20	1	–	SPARE	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	20	1	–	SPARE	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

"2NH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	0.0	11.4	0.0	0.0	11.4	13.7
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	0.0	4.4	0.0	0.0	4.4	5.3
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.0	4.4	0.0	0.0	4.4	5.3

PANEL: 2NLA — NORMAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
FED FROM: 1DPNL | WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	RCPT'S RM. 2503A	900	20	1	A	20	1	900	J-BOX PAT. RM 2021	2
3	FLOOR BOX RM 2033	400	20	1	B	20	1	1080	J-BOX PAT. RM 2021	4
5	RCPT'S RM. 2042A	540	20	1	C	20	1	900	J-BOX PAT. RM 2018	6
7	J-BOX FIREPLACE RM. 5029	200	20	1	A	20	1	1080	J-BOX PAT. RM 2018	8
9	RCPT'S RM. 2042	720	20	1	B	20	1	900	J-BOX PAT. RM 2017	10
11	RCPT'S RM. 2031-2044	1260	20	1	C	20	1	1080	J-BOX PAT. RM 2017	12
13	J-BOX EWC	500	20	1	A	20	1	900	J-BOX PAT. RM 2014	14
15	RCPT. COFFEE RM. 2030	1200	20	1	B	20	1	1080	J-BOX PAT. RM 2014	16
17	RCPT. RM. 2030	500	20	1	C	20	1	900	J-BOX PAT. RM 2013	18
19	RCPT. VENDING. RM. 2030	800	20	1	A	20	1	1080	J-BOX PAT. RM 2013	20
21	RCPT. VENDING. RM. 2030	800	20	1	B	20	1	900	J-BOX PAT. RM 2010	22
23	RCPT'S RM. 2029	720	20	1	C	20	1	1080	J-BOX PAT. RM 2010	24
25	RCPT'S RM. 2029	720	20	1	A	20	1	900	J-BOX PAT. RM 2009	26
27	SPARE	–	20	1	B	20	1	1080	J-BOX PAT. RM 2009	28
29	J-BOX H.C. PAT. RM 2025	1080	20	1	C	20	1	900	J-BOX PAT. RM 2006	30
31	J-BOX H.C. PAT. RM 2025	900	20	1	A	20	1	1080	J-BOX PAT. RM 2006	32
33	J-BOX PAT. RM 2022	1080	20	1	B	20	1	900	J-BOX PAT. RM 2005	34
35	J-BOX PAT. RM 2022	900	20	1	C	20	1	1080	J-BOX PAT. RM 2005	36
37	PLUGMOLD RM. 2026	1476	20	1	A	20	1	900	J-BOX PAT. RM 2002	38
39	PLUGMOLD RM. 2026	1476	20	1	B	20	1	1080	J-BOX PAT. RM 2002	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

PANEL: 2NLA (SECTION 2) — NORMAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	J-BOX H.C. PAT. RM 2046	1080	20	1	A	20	1	900	J-BOX PAT. RM 2064	44
45	J-BOX H.C. PAT. RM 2046	900	20	1	B	20	1	1080	J-BOX PAT. RM 2064	46
47	J-BOX PAT. RM 2048	1080	20	1	C	20	1	900	J-BOX PAT. RM 2065	48
49	J-BOX PAT. RM 2048	900	20	1	A	20	1	1080	J-BOX PAT. RM 2065	50
51	J-BOX PAT. RM 2049	1080	20	1	B	20	1	900	J-BOX PAT. RM 2068	52
53	J-BOX PAT. RM 2049	900	20	1	C	20	1	360	J-BOX PAT. RM 2068	54
55	J-BOX PAT. RM 2052	1080	20	1	A	20	1	720	RCPT'S RM 2109	56
57	J-BOX PAT. RM 2052	900	20	1	B	20	1	900	RCPT'S RM 2108	58
59	J-BOX PAT. RM 2053	1080	20	1	C	20	1	720	RCPT'S RM 2111	60
61	J-BOX PAT. RM 2053	900	20	1	A	20	1	400	RCPT'S RM 2106	62
63	J-BOX PAT. RM 2056	1080	20	1	B	20	1	1000	RCPT. SHREDER RM. 2105	64
65	J-BOX PAT. RM 2056	900	20	1	C	20	1	1000	RCPT. COPIER RM. 2105	66
67	J-BOX PAT. RM 2057	1080	20	1	A	20	1	1000	RCPT. FAX +PRINTER RM. 2105	68
69	J-BOX PAT. RM 2057	900	20	1	B	20	1	720	SPARE	70
71	J-BOX PAT. RM 2060	1080	20	1	C	20	1	720	RCPT'S RM 2103	72
73	J-BOX PAT. RM 2060	900	20	1	A	20	1	360	RCPTS. RM. 2103-2104	74
75	J-BOX PAT. RM 2061	1080	20	1	B	20	1	1080	RCPT'S. RM. 2104	76
77	J-BOX PAT. RM 2061	900	20	1	C	20	1	–	RCPT'S. RM. 2097-2099	78
79	SPARE	–	20	1	A	20	1	–	SPARE	80
81	SPARE	–	20	1	B	20	1	–	SPARE	82
83	SPARE	–	20	1	C	20	1	–	SPARE	84

NOTES:

PANEL: 2NLA (SECTION 3) — NORMAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
85	RCPT. MICRO. RM. 2099	1200	20	1	A	20	1	720	RCPTS. RM. 2081	86
87	RCPT. COFFEE. RM. 2099	1200	20	1	B	20	1	1000	RCPT. PRINTER RM. 2081	88
89	RCPTS. RM. 2094	360	20	1	C	20	1	500	RCPT'S. SHREDER RM. 2181	90
91	RCPTS. RM. 2091	1080	20	1	A	20	1	–	SPARE	92
93	RCPT'S. RM. 2087	900	20	1	B	20	1	1200	RCPT. COFFEE RM. 2082	94
95	RCPT. RM. 4089	540	20	1	C	20	1	1200	RCPT. MICRO. RM. 2082	96
97	PLUG MOLD RM. 2084	504	20	1	A	20	1	1080	RCPT'S RM. 2076	98
99	RCPT'S. RM. 2084	720	20	1	B	20	1	900	RCPT'S RM'S. 2001-2073	100
101	RCPT'S. RM. 2083	900	20	1	C	20	1	1200	RCPT. COFFEE RM. 2071	102
103	RCPTS. CORR. 2044A	1080	20	1	A	20	1	1200	RCPT. MICRO. RM. 2071	104
105	LTG. SCONCE 2ND FL. CORR.	700	20	1	B	20	1	500	RCPT. RM. 2071	106
107	RCPT'S RM'S. 2072-2073	720	20	1	C	20	1	–	SPARE	108
109	SPARE	–	20	1	A	20	1	–	SPARE	110
111	SPARE	–	20	1	B	20	1	–	SPARE	112
113	SPARE	–	20	1	C	20	1	–	SPARE	114
115	SPARE	–	20	1	A	20	1	–	SPARE	116
117	SPARE	–	20	1	B	20	1	–	SPARE	118
119	SPARE	–	20	1	C	20	1	–	SPARE	120
121	SPARE	–	20	1	A	20	1	–	SPARE	122
123	SPARE	–	20	1	B	20	1	–	SPARE	124
125	SPARE	–	20	1	C	20	1	–	SPARE	126

NOTES:

"2NLA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	8.4	0.0	78.6	0.0	0.0	87.0	241.6
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	8.0	0.0	25.8	0.0	0.0	33.8	93.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	8.0	0.0	25.8	0.0	0.0	33.8	93.8

PANEL: 2CRH — CRITICAL

LOCATION: ELEC. 2094 | MAIN BUS: 100A | MCB: N/A | VOLTAGE: 480/277 | AIC: 14,000A
FED FROM: 1DPCRH | WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. RM'S 2029-2109	3116	20	1	A	20	1	3442	LTG. PAT. RM'S	2
3	LTG. PAT. RM'S 2046-2060	3442	20	1	B	20	1	–	SPARE	4
5	LTG. PAT. RM'S 2010-2025	3442	20	1	C	20	1	–	SPARE	6
7	SPARE	–	20	1	A	20	1	–	SPARE	8
9	SPARE	–	20	1	B	20	1	–	SPARE	10
11	SPARE	–	20	1	C	20	1	–	SPARE	12
13	SPARE	–	20	1	A	20	1	–	SPARE	14
15	SPARE	–	20	1	B	20	1	–	SPARE	16
17	SPARE	–	20	1	C	20	1	–	SPARE	18
19	SPARE	–	20	1	A	20	1	–	SPARE	20
21	SPARE	–	20	1	B	20	1	–	SPARE	22
23	SPARE	–	20	1	C	20	1	–	SPARE	24
25	SPARE	–	20	1	A	20	1	–	SPARE	26
27	SPARE	–	20	1	B	20	1	–	SPARE	28
29	SPARE	–	20	1	C	20	1	–	SPARE	30
31	SPARE	–	20	1	A	20	1	–	SPARE	32
33	SPARE	–	20	1	B	20	1	–	SPARE	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	20	1	–	SPARE	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

"2CRH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	0.0	13.4	0.0	0.0	13.4	16.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	0.0	5.2	0.0	0.0	5.2	6.3
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.0	5.2	0.0	0.0	5.2	6.3

PANEL: 2CRLA — CRITICAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
FED FROM: 2DPCRL | WIRES: 4W + G + IG | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	SPARE	–	20	1	A	20	1	720	J-BOX PAT. RM 2053	2
3	SPARE	–	20	1	B	20	1	1500	J-BOX PAT. RM.S 2053-2056	4
5	RCPT'S RM. 2042	360	20	1	C	20	1	720	J-BOX PAT. RM 2057	6
7	J-BOX PAT. RM. 2022	720	20	1	A	20	1	1500	J-BOX PAT. RM.S 2057-2060	8
9	JB H.C. PAT. RM.S 2022-2025	1500	20	1	B	20	1	720	J-BOX PAT. RM.S 2061	10
11	J-BOX PAT. RM 2018	720	20	1	C	20	1	1500	J-BOX PAT. RM.S 2061-2064	12
13	J-BOX PAT. RM.S 2021-2018	1500	20	1	A	20	1	720	J-BOX PAT. RM 2068	14
15	J-BOX PAT. RM 2014	720	20	1	B	20	1	1500	J-BOX PAT. RM.S 2065-2068	16
17	J-BOX PAT. RM.S 2014-2017	1500	20	1	C	20	1	720	RCPT'S RM 2109	18
19	J-BOX PAT. RM 2010	720	20	1	A	20	1	720	RCPT'S RM 2106	20
21	J-BOX PAT. RM.S 2010-2013	1500	20	1	B	20	1	1080	RCPTS. RM. 2103-2104	22
23	J-BOX PAT. RM 2006	720	20	1	C	20	1	–	SPARE	24
25	J-BOX PAT. RM.S 2006-2009	1500	20	1	A	20	1	1200	RECPT. MED. RM. 2097	26
27	J-BOX PAT. RM 2002	720	20	1	B	20	1	1200	RECPT. MED. RM. 2097	28
29	J-BOX PAT. RM.S 2005-2002	1500	20	1	C	20	1	1200	RECPT. MED. RM. 2097	30
31	JB H.C. PAT. RM 2046	720	20	1	A	20	1	1800	RCPT. REFIG. RM. 2099	32
33	JB H.C. PAT. RM.S 2046-2048	1500	20	1	B	20	1	1800	RCPT. ICE MAK. RM. 2099	34
35	J-BOX PAT. RM.S 2049	720	20	1	C	20	1	960	RCPT. REFR. RM. 2097	36
37	J-BOX PAT. RM.S 2049-2052	1500	20	1	A	20	1	500	RCPT. SCANER RM. 2096	38
39	J-BOX AHU-06-2 LTS	300	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

"2CRLA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	10.9	0.0	56.5	0.0	0.0	67.5	187.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	10.5	0.0	21.4	0.0	0.0	31.9	88.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	10.5	0.0	21.4	0.0	0.0	31.9	88.5

PANEL: 2CRLA (SECTION 2) — CRITICAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
WIRES: 4W + G + IG | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	RCPTS. RM. 2094	360	20	1	A	20	1	300	J-BOX PTS RM. 2083	44
45	RCPTS. RM. 2094	360	20	1	B	20	1	540	RCPTS. RM. 2081	46
47	RCPTS. I.S. RM. 2095	720	20	1	C	20	1	1800	RCPT. ICE MAK. RM. 2082	48
49	RCPTS. I.S. RM. 2095	720	20	1	A	20	1	1800	RCPT. REFIG. RM. 2082	50
51	RCPTS. I.S. RM. 2095	720	20	1	B	20	1	960	RCP. REFR. RM. 2076	52
53	RCPTS. I.S. RM. 2095	360	20	1	C	20	1	1200	RECPT. MED. RM. 2076	54
55	PLUGMOLD RM. 2089	1188	20	1	A	20	1	1200	RECPT. MED. RM. 2076	56
57	RCPT. RM. 2087	180	20	1	B	20	1	1200	RECPT. MED. RM. 2076	58
59	RCPTS. RM. 2084	720	20	1	C	20	1	500	RCPT. SCANER RM. 2075	60
61	RCPTS. RM. 2084	360	20	1	A	20	1	180	RCPT. ANTE RM. 2001	62
63	J-BOX RM'S 2034-2036	400	20	1	B	20	1	1800	RCPT. REFIG. RM. 2071	64
65	RCPT'S RM'S 2034-2036	400	20	1	C	20	1	720	J.B. H.C. PAT. RM. 2025	66
67	J.B. PAT. RM 2048	720	20	1	A	20	1	720	J-BOX PAT. RM 2021	68
69	J.B. PAT. RM 2052	720	20	1	B	20	1	720	J-BOX PAT. RM 2017	70
71	J.B. PAT. RM 2056	720	20	1	C	20	1	720	J-BOX PAT. RM 2013	72
73	J.B. PAT. RM 2060	720	20	1	A	20	1	720	J-BOX PAT. RM 2009	74
75	J.B. PAT. RM 2064	720	20	1	B	20	1	720	J-BOX PAT. RM 2005	76
77	J.B. PAT. RM 2068	720	20	1	C	20	1	360	RCPT'S RM. 2042A	78
79	RCPTS. I.S. RM. 2095	360	20	1	A	20	1	–	SPARE	80
81	J-BOX AHU-06-1 LTS	–	20	1	B	20	1	–	SPARE	82
83	SPARE	–	20	1	C	20	1	–	SPARE	84

NOTES:

PANEL: 2CRLA (SECTION 3) — CRITICAL

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
WIRES: 4W + G + IG | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Lugs Only
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
85	SPARE	–	20	1	A	20	1	–	SPARE	86
87	RCPT'S RM. 4026	720	20	1	B	20	1	–	SPARE	88
89	I.P. MONITOR RM. 2002-2025	400	20	1	C	20	1	–	SPARE	90
91	RCPTS. PAT. MONIT.RM. 2084	360	20	1	A	20	1	–	SPARE	92
93	SPARE	–	20	1	B	20	1	–	SPARE	94
95	SPARE	–	20	1	C	20	1	–	SPARE	96
97	SPARE	–	20	1	A	20	1	–	SPARE	98
99	SPARE	–	20	1	B	20	1	–	SPARE	100
101	SPARE	–	20	1	C	20	1	–	SPARE	102
103	SPARE	–	20	1	A	20	1	–	SPARE	104
105	SPARE	–	20	1	B	20	1	–	SPARE	106
107	SPARE	–	20	1	C	20	1	–	SPARE	108
109	SPARE	–	20	1	A	20	1	–	SPARE	110
111	SPARE	–	20	1	B	20	1	–	SPARE	112
113	SPARE	–	20	1	C	20	1	–	SPARE	114
115	SPARE	–	20	1	A	20	1	–	SPARE	116
117	SPARE	–	20	1	B	20	1	–	SPARE	118
119	SPARE	–	20	1	C	20	1	–	SPARE	120
121	SPARE	–	20	1	A	20	1	–	SPARE	122
123	SPARE	–	20	1	B	20	1	–	SPARE	124
125	SPARE	–	20	1	C	20	1	–	SPARE	126

NOTES:

"2CRLA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	10.9	0.0	56.5	0.0	0.0	67.5	187.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	10.5	0.0	21.4	0.0	0.0	31.9	88.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	10.5	0.0	21.4	0.0	0.0	31.9	88.5

PANEL: 2EQL — EQUIPMENT

LOCATION: ELEC. 2094 | MAIN BUS: 225A | MCB: 150A | VOLTAGE: 208/120 | AIC: 10,000A
FED FROM: 1DPEQH | WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Surface | PANEL LUGS: Main Circuit Breaker
NEUTRAL BUS: Yes | GROUND BUS: Yes | ISOLATED GROUND BUS: No | 200% NEUTRAL: No | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	SPARE	500	20	1	A	20	1	500	J-BOX FIRE SM. DAM. 1ST FL.	2
3	SPARE	500	20	1	B	20	1	500	J-BOX VAV BOXES 1ST FL.	4
5	J-BOX FIRE SM. DAM. 3RD FL.	500	20	1	C	20	1	500	J-BOX FIRE SM. DAM. 1ST FL.	6
7	J-BOX VAV BOXES 3RD FL	500	20	1	A	20	1	500	J-BOX VAV BOXES 1ST FL.	8
9	SUMP PUMP ELEV #1	400	20	1	B	20	1	400	J-BOX COIL. SMK DOOR 1ST FL.	10
11	SUMP PUMP ELEV #2	400	20	1	C	20	1	600	J-BOX COIL. SMK DOOR 2ND FL.	12
13	SUMP PUMP ELEV #3	400	20	1	A	20	1	600	J-BOX COIL. SMK DOOR 3RD FL.	14
15	SUMP PUMP ELEV #4	400	20	1	B	20	1	500	J-BOX FIRE SM. DAM. 1ST FL.	16
17	J-BOX FIRE SM. DAM. 1ST FL.	500	20	1	C	20	1	500	J-BOX VAV BOXES 1ST FL.	18
19	J-BOX VAV BOXES 1ST FL.	500	20	1	A	20	1	500	3RD FLOOR DDC CONTROLS	20
21	J-BOX FIRE SM. DAM. 1ST FL.	500	20	1	B	20	1	500	2ND FLOOR DDC CONTROLS	22
23	J-BOX VAV BOXES 1ST FL.	500	20	1	C	20	1	500	2ND FLOOR DDC CONTROLS	24
25	J-BOX PTS	500	20	1	A	20	1	1000	J-BOX PTS	26

PANEL: 5CRH — CRITICAL

LOCATION: ELEC. 5094 | FED FROM: 1DPCRH | NEUTRAL BUS: Yes
MAIN BUS: 100A | WIRES: 4W + G | GROUND BUS: Yes
ENCLOSURE: NEMA 1 | MCB: N/A | ISOLATED GROUND BUS: No
BUS TYPE: Copper | VOLTAGE: 480/277 | 200% NEUTRAL: No
MOUNTING: Surface | AIC: 10,000A | FEED THROUGH LUGS: No
PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. RM'S. 5033-5109	2900	20	1	A	70	3	11154	MAC-1 (30HP)	2
3	LTG. PAT. RM'S. 5046-5060	3442	20	1	B			11154		4
5	LTG. PAT. RM'S. 5010-5025	3442	20	1	C			11154		6
7	LTG. RM'S. 6003-6005	500	20	1	A	45	3	7436	MVP-1 (20HP)	8
9	LTG. RM'S	3442	20	1	B			7436		10
11	SPARE	–	20	1	C			7436		12
13	SPARE	–	20	1	A	20	1	–	SPARE	14
15	SPARE	–	20	1	B	20	1	–	SPARE	16
17	SPARE	–	20	1	C	20	1	–	SPARE	18
19	SPARE	–	20	1	A	20	1	–	SPARE	20
21	SPARE	–	20	1	B	20	1	–	SPARE	22
23	SPARE	–	20	1	C	20	1	–	SPARE	24
25	SPARE	–	20	1	A	20	1	–	SPARE	26
27	SPARE	–	20	1	B	20	1	–	SPARE	28
29	SPARE	–	20	1	C	20	1	–	SPARE	30
31	SPARE	–	20	1	A	20	1	–	SPARE	32
33	SPARE	–	20	1	B	20	1	–	SPARE	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	20	1	–	SPARE	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

"5CRH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	55.8	13.7	0.0	0.0	69.5	83.8
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	64.3	5.6	0.0	0.0	69.8	84.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	64.3	5.6	0.0	0.0	69.8	84.0

PANEL: 5CRLA — CRITICAL

LOCATION: To Be Specified | FED FROM: 4DPCRL | NEUTRAL BUS: Yes
MAIN BUS: 225A | WIRES: 4W + G + IG | GROUND BUS: Yes
ENCLOSURE: NEMA 1 | MCB: N/A | ISOLATED GROUND BUS: Yes
BUS TYPE: Refer to Specifications | VOLTAGE: 208/120 | 200% NEUTRAL: No
MOUNTING: Surface | AIC: 10,000A | FEED THROUGH LUGS: Yes
PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	ROOF RCPT	360	20	1	A	20	1	720	J-BOX PAT. RM 5053	2
3	SPARE	–	20	1	B	20	1	1500	J-BOX PAT. RM.S 5053-5056	4
5	RCPT'S RM. 5042	360	20	1	C	20	1	720	J-BOX PAT. RM 5057	6
7	J-BOX PAT. RM 5022	720	20	1	A	20	1	1500	J-BOX PAT. RM.S 5057-5060	8
9	JB H.C. PAT. RM.S 5022-5025	1500	20	1	B	20	1	720	J-BOX PAT. RM 5061	10
11	J-BOX PAT. RM 5018	720	20	1	C	20	1	1500	J-BOX PAT. RM.S 5061-5064	12
13	J-BOX PAT. RM.S 5021-5018	1500	20	1	A	20	1	720	J-BOX PAT. RM 5065	14
15	J-BOX PAT. RM 5014	720	20	1	B	20	1	1500	J-BOX PAT. RM.S 5065-5068	16
17	J-BOX PAT. RM.S 5014-5017	1500	20	1	C	20	1	720	RCPT'S RM 5109	18
19	J-BOX PAT. RM 5010	720	20	1	A	20	1	720	RCPT'S RM 5106	20
21	J-BOX PAT. RM.S 5010-5013	1500	20	1	B	20	1	1080	RCPTS. RM. 5103-5104	22
23	J-BOX PAT. RM 5006	720	20	1	C	20	1	360	ROOF RCPT	24
25	J-BOX PAT. RM.S 5006-5009	1500	20	1	A	20	1	1200	RECPT. MED. RM. 5097	26
27	J-BOX PAT. RM.S 5005-5002	1440	20	1	B	20	1	1200	RECPT. MED. RM. 5097	28
29	J-BOX PAT. RM.S 5005-5002	1500	20	1	C	20	1	1200	RECPT. MED. RM. 5097	30
31	J-BOX H.C. PAT. RM 5046	720	20	1	A	20	1	1800	RCPT. RESYG. RM. 5099	32
33	JB H.C. PAT. RM.S 5046-5048	1500	20	1	B	20	1	1800	RCPT. ICE MAK. RM. 5099	34
35	J-BOX PAT. RM 5049	720	20	1	C	20	1	960	RCPT. RESYG. RM. 5097	36
37	J-BOX PAT. RM.S 5049-5052	1500	20	1	A	20	1	500	RCPT. SCANER RM. 5096	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

PANEL: 5CRLA (SECTION 2) — CRITICAL

LOCATION: To Be Specified | WIRES: 4W + G + IG | NEUTRAL BUS: Yes
MAIN BUS: 225A | ENCLOSURE: NEMA 1 | GROUND BUS: Yes
BUS TYPE: Refer to Specifications | MCB: N/A | ISOLATED GROUND BUS: Yes
MOUNTING: Surface | VOLTAGE: 208/120 | 200% NEUTRAL: No
PANEL LUGS: Main Lugs Only | AIC: 10,000A | FEED THROUGH LUGS: Yes

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	RCPT. COVE 5102A-5093	540	20	1	A	20	1	180	RCPT. RM. 6002	44
45	RCPTS. RM. 5094	360	20	1	B	20	1	540	RCPTS. RM. 5081	46
47	RCPTS. RM. 5095	720	20	1	C	20	1	1800	RCPT. ICE MAK. RM. 5082	48
49	RCPTS. RM. 5095	720	20	1	A	20	1	1800	RCPT. RESYG. RM. 5082	50
51	RCPTS. RM. 5095	720	20	1	B	20	1	960	RCP. REFR. RM. 5076	52
53	RCPT'S MECH. RM. 6003	360	20	1	C	20	1	1200	RECPT. MED. RM. 5076	54
55	PLUGMOLD RM. 5089	1188	20	1	A	20	1	1200	RECPT. MED. RM. 5076	56
57	RCPT. RM. 5087	180	20	1	B	20	1	1200	RECPT. MED. RM. 5076	58
59	RCPTS. RM. 5084	720	20	1	C	20	1	500	RCPT. SCANER RM. 5075	60
61	RCPTS. RM. 5084	540	20	1	A	20	1	180	RCPT. ANTE RM. 5001	62
63	SPARE	–	20	1	B	20	1	1800	RCPT. RESYG. RM. 5071	64
65	SPARE	–	20	1	C	20	1	720	J-BOX H.C.PAT. RM 5025	66
67	J-BOX PAT. RM 5048	720	20	1	A	20	1	720	J-BOX PAT. RM 5021	68
69	J-BOX PAT. RM 5052	720	20	1	B	20	1	720	J-BOX PAT. RM 5017	70
71	J-BOX PAT. RM 5056	720	20	1	C	20	1	720	J-BOX PAT. RM 5013	72
73	J-BOX PAT. RM 5060	720	20	1	A	20	1	720	J-BOX PAT. RM 5009	74
75	J-BOX PAT. RM 5064	720	20	1	B	20	1	720	J-BOX PAT. RM 5009	76
77	J-BOX PAT. RM 5068	720	20	1	C	20	1	300	AHU LTS. CNTRLS	78
79	RCPTS LS. RM 5095	360	20	1	A	20	1	–	SPARE	80
81	RCPTS LS. RM 5095	360	20	1	B	20	1	–	SPARE	82
83	SPARE	–	20	1	C	20	1	–	SPARE	84

NOTES:

PANEL: 5CRLA (SECTION 3) — CRITICAL

LOCATION: To Be Specified | WIRES: 4W + G + IG | NEUTRAL BUS: Yes
MAIN BUS: 225A | ENCLOSURE: NEMA 1 | GROUND BUS: Yes
MCB: N/A | BUS TYPE: Refer to Specifications | ISOLATED GROUND BUS: Yes
VOLTAGE: 208/120 | MOUNTING: Surface | 200% NEUTRAL: No
AIC: 10,000A | PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
85	RCPTS. RM'S. 6002-6005	540	20	1	A	20	1	500	PHOTOCELL	86
87	RCPT'S RM. 5026	720	20	1	B	20	1	200	OBSTRUCTION LTG	88
89	LP. MONITOR RM. 5002-5025	400	20	1	C	20	1	200	OBSTRUCTION LTG	90
91	RCPTS. PAT. MONITR.RM. 5084	360	20	1	A	20	1	334	OBSTRUCTION LTG	92
93	SPARE	–	20	1	B	20	1	–	SPARE	94
95	SPARE	–	20	1	C	20	1	–	SPARE	96
97	SPARE	–	20	1	A	20	1	–	SPARE	98
99	SPARE	–	20	1	B	20	1	–	SPARE	100
101	SPARE	–	20	1	C	20	1	–	SPARE	102
103	SPARE	–	20	1	A	20	1	–	SPARE	104
105	SPARE	–	20	1	B	20	1	–	SPARE	106
107	SPARE	–	20	1	C	20	1	–	SPARE	108
109	SPARE	–	20	1	A	20	1	–	SPARE	110
111	SPARE	–	20	1	B	20	1	–	SPARE	112
113	SPARE	–	20	1	C	20	1	–	SPARE	114
115	SPARE	–	20	1	A	20	1	–	SPARE	116
117	SPARE	–	20	1	B	20	1	–	SPARE	118
119	SPARE	–	20	1	C	20	1	–	SPARE	120
121	SPARE	–	20	1	A	20	1	–	SPARE	122
123	SPARE	–	20	1	B	20	1	–	SPARE	124
125	SPARE	–	20	1	C	20	1	–	SPARE	126

NOTES:

"5CRLA" LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.7	11.6	57.1	0.5	69.9	194.1
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	1.0	11.0	21.4	0.0	33.4	92.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	1.3	11.0	21.4	0.0	33.6	93.4

PANEL: 5EQL — EQUIPMENT

LOCATION: ELEC. 5094 | FED FROM: 1DPEQH | NEUTRAL BUS: Yes
MAIN BUS: 225A | WIRES: 4W + G | GROUND BUS: Yes
MCB: 150A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: Yes
VOLTAGE: 208/120 | BUS TYPE: Copper | 200% NEUTRAL: No
AIC: 10,000A | MOUNTING: Surface | FEED THROUGH LUGS: Yes
PANEL LUGS: Main Circuit Breaker

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	SPARE	–	20	1	A	20	1	600	J-BOX COIL SMK DOOR 4TH FL.	2
3	SPARE	–	20	1	B	15	1	696	CEF-06-5 1/4HP	4
5	J-BOX FIRE SM. DAM. 5TH FL.	500	20	1	C	20	1	500	6TH FLOOR DDC CONTROLS	6
7	J-BOX FIRE SM. DAM. 5TH FL.	500	20	1	A	20	1	500	6TH FLOOR DAMPERS	8
9	J-BOX FIRE SM. DAM. 5TH FL.	500	20	1	B	20	1	500	J-BOX PTS	10
11	AHU-06-5 DAMPERS	300	20	1	C	20	1	500	J-BOX PTS TRANSER STATION	12
13	AHU-06-4 DAMPERS	300	20	1	A	20	1	500	J-BOX PTS	14
15	FIRE SM. DAM. 4TH FL.	500	20	1	B	20	1	500	J-BOX PTS TRANSER STATION	16
17	5TH FLOOR DDC CONTROLS	500	20	1	C	15	1	667	PHP-06-4 1/4 HP	18
19	4TH FLOOR DDC CONTROLS	500	20	1	A	15	1	667	PHP-06-5 1/4 HP	20
21	J-BOX FIRE SM. DAM. 4TH FL.	500	20	1	B	20	1	500	J-BOX FIRE SM. DAM. 4TH FL.	22
23	J-BOX FIRE SM. DAM. 4TH FL.	500	20	1	C	20	1	500	J-BOX FIRE SM. DAM. 4TH FL.	24
25	J-BOX FIRE SM. DAM. 4TH FL.	500	20	1	A	20	1	500	J-BOX FIRE SM. DAM. 4TH FL.	26
27	J-BOX VAV BOXES 4TH FL.	500	20	1	B	20	1	500	J-BOX VAV BOXES 4TH FL.	28
29	J-BOX VAV BOXES 4TH FL.	500	20	1	C	20	1	500	J-BOX VAV BOXES 4TH FL.	30
31	J-BOX VAV BOXES 4TH FL.	500	20	1	A	20	1	500	J-BOX VAV BOXES 4TH FL.	32
33	J-BOX COLING FIRE DOOR 4TH	500	20	1	B	20	1	500	ELEVATOR REMOTE MONITOR	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	20	1	–	SPARE	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:

"5EQL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	2.0	0.0	0.0		19.2	21.2	58.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	2.3	0.0	0.0	19.0	21.3	59.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	2.3	0.0	0.0	19.0	21.3	59.0

PANEL: 5EQL (SECTION 2) — EQUIPMENT

LOCATION: ELEC. 5094 | WIRES: 4W + G | NEUTRAL BUS: Yes
MAIN BUS: 225A | ENCLOSURE: NEMA 1 | GROUND BUS: Yes
MCB: N/A | BUS TYPE: Copper | ISOLATED GROUND BUS: No
VOLTAGE: 208/120 | MOUNTING: Surface | 200% NEUTRAL: No
AIC: 10,000A | PANEL LUGS: Main Lugs Only | FEED THROUGH LUGS: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	J-BOX VAV BOXES 5TH FL.	500	20	1	A	20	1	500	J-BOX FIRE SM. DAM. 5TH FL.	44
45	J-BOX VAV BOXES 5TH FL.	500	20	1	B	20	1	500	J-BOX FIRE SM. DAM. 5TH FL.	46
47	J-BOX VAV BOXES 5H FL.	500	20	1	C	20	1	500	J-BOX FIRE SM. DAM. 5TH FL.	48
49	J-BOX COLING FIRE DOOR 5TH	500	20	1	A	20	1	500	J-BOX VAV BOXES 5TH FL.	50
51	SPARE	–	20	1	B	20	1	500	J-BOX VAV BOXES 5TH FL.	52
53	SPARE	–	20	1	C	20	1	500	J-BOX VAV BOXES 5H FL.	54
55	SPARE	–	20	1	A	20	1	–	SPARE	56
57	SPARE	–	20	1	B	20	1	–	SPARE	58
59	SPARE	–	20	1	C	20	1	–	SPARE	60
61	SPARE	–	20	1	A	20	1	–	SPARE	62
63	SPARE	–	20	1	B	20	1	–	SPARE	64
65	SPARE	–	20	1	C	20	1	–	SPARE	66
67	SPARE	–	20	1	A	20	1	–	SPARE	68
69	SPARE	–	20	1	B	20	1	–	SPARE	70
71	SPARE	–	20	1	C	20	1	–	SPARE	72
73	SPARE	–	20	1	A	20	1	–	SPARE	74
75	SPARE	–	20	1	B	20	1	–	SPARE	76
77	SPARE	–	20	1	C	20	1	–	SPARE	76
79	SPARE	–	20	1	A	20	1	–	SPARE	80
81	SPARE	–	20	1	B	20	1	–	SPARE	82
83	SPARE	–	20	1	C	20	1	–	SPARE	84

NOTES:

"5EQL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	2.0	0.0	0.0	19.2	21.2	58.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	2.3	0.0	0.0	19.0	21.3	59.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	2.3	0.0	0.0	19.0	21.3	59.0

PANEL: 5LSH — LIFE SAFETY

LOCATION: ELEC. 5094 | FED FROM: 1DPLSH | NEUTRAL BUS: Yes
MAIN BUS: 100A | WIRES: 4W + G | GROUND BUS: Yes
MCB: N/A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: No
VOLTAGE: 480/277 | BUS TYPE: Copper | 200% NEUTRAL: No
AIC: 10,000A | MOUNTING: Surface | FEED THROUGH LUGS: No
PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. CORRIDORS 5TH FL.	2500	20	1	A	20	1	–	SPARE	2
3	LTG. CORRIDORS 4TH FL.	3036	20	1	B	20	1	–	SPARE	4
5	LTG. CORRIDORS 6TH FL.	300	20	1	C	20	1	–	SPARE	6
7	SPARE	–	20	1	A	20	1	–	SPARE	8
9	SPARE	–	20	1	B	20	1	–	SPARE	10
11	SPARE	–	20	1	C	20	1	–	SPARE	12
13	SPARE	–	20	1	A	20	1	–	SPARE	14
15	SPARE	–	20	1	B	20	1	–	SPARE	16
17	SPARE	–	20	1	C	20	1	–	SPARE	18
19	SPARE	–	20	1	A	20	1	–	SPARE	20
21	SPARE	–	20	1	B	20	1	–	SPARE	22
23	SPARE	–	20	1	C	20	1	–	SPARE	24
25	SPARE	–	20	1	A	20	1	–	SPARE	26
27	SPARE	–	20	1	B	20	1	–	SPARE	28
29	SPARE	–	20	1	C	20	1	–	SPARE	30
31	SPARE	–	20	1	A	20	1	–	SPARE	32
33	SPARE	–	20	1	B	20	1	–	SPARE	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	25	3	1800	PANEL "5LSL"	38
39	SPARE	–	20	1	B			1300	VIA XFMR	40
41	SPARE	–	20	1	C			1300	*	42

NOTES:
1. NOTE: PROVIDE BUSSMAN COORDINATION MODULE FOR THIS EQUIPMENT OR EQUAL
2. 5LSH Load Summary
3. 5LSL Load Summary

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	5.8	0.0	0.8	0.8	7.4	8.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	6.0	0.0	0.4	1.0	7.4	8.9
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	7.5	0.0	0.4	1.0	8.9	10.7

PANEL: 5LSL — LIFE SAFETY

LOCATION: ELEC. 5094 | FED FROM: 5LSH | NEUTRAL BUS: Yes
MAIN BUS: 100A | WIRES: 4W + G | GROUND BUS: Yes
MCB: N/A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: No
VOLTAGE: 208/120 | BUS TYPE: Copper | 200% NEUTRAL: No
AIC: 10,000A | MOUNTING: Surface | FEED THROUGH LUGS: No
PANEL LUGS: Main Lugs Only

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	PHASE	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	MCAP RM 4097	400	20	1	A	20	1	500	ELEV. #1 LTS & POWER	2
3	MCAP RM 5097	400	20	1	B	20	1	500	ELEV. #2 LTS & POWER	4
5	J-BOX AUTO DOOR 5TH FL.	400	20	1	C	20	1	500	ELEV. #3 LTS & POWER	6
7	J-BOX AUTO DOOR 4TH FL.	400	20	1	A	20	1	500	ELEV. #4 LTS & POWER	8
9	4TH FLOOR FIRE ALARM NAC	400	20	1	B	20	1	–	SPARE	10
11	5TH FLOOR FIRE ALARM NAC	400	20	1	C	20	1	–	SPARE	12
13	SPARE	–	20	1	A	20	1	–	SPARE	14
15	SPARE	–	20	1	B	20	1	–	SPARE	16
17	SPARE	–	20	1	C	20	1	–	SPARE	18
19	SPARE	–	20	1	A	20	1	–	SPARE	20
21	SPARE	–	20	1	B	20	1	–	SPARE	22
23	SPARE	–	20	1	C	20	1	–	SPARE	24
25	SPARE	–	20	1	A	20	1	–	SPARE	26
27	SPARE	–	20	1	B	20	1	–	SPARE	28
29	SPARE	–	20	1	C	20	1	–	SPARE	30
31	SPARE	–	20	1	A	20	1	–	SPARE	32
33	SPARE	–	20	1	B	20	1	–	SPARE	34
35	SPARE	–	20	1	C	20	1	–	SPARE	36
37	SPARE	–	20	1	A	20	1	–	SPARE	38
39	SPARE	–	20	1	B	20	1	–	SPARE	40
41	SPARE	–	20	1	C	20	1	–	SPARE	42

NOTES:
1. NOTE: PROVIDE BUSSMAN COORDINATION MODULE OR EQUAL
2. 5LSL Load Summary

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	0.8	2.8	3.6	10.0
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	0.4	3.0	3.4	9.4
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.4	3.0	3.4	9.4

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 0 3 2007
2007206858

5CRH	5EQL SEC. 1	
5CRLA SEC. 1	5EQL SEC. 2	
5CRLA SEC. 2	5LSH	
5CRLA SEC. 3	5LSL	

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10/15/07

Revisions

NO.	ISSUE	DATE
1	ADDENDUM #2	10/31/06
2	ASI #3	03/12/07
3	PR #13	10/12/07

Sheet Information

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Title
ELECTRICAL PANEL SCHEDULES

Sheet
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