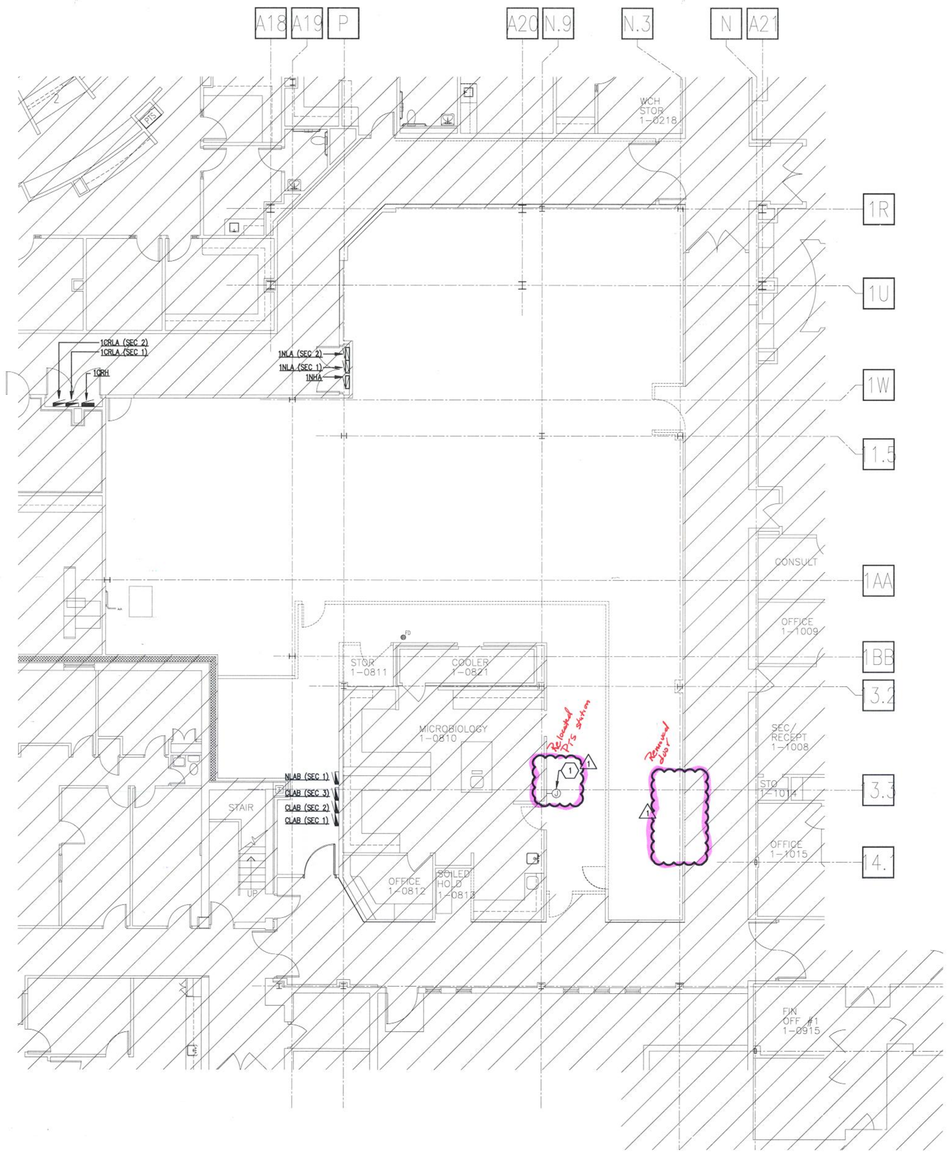
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LEGEND NOTES

1. PTS STATION TO BE RELOCATED. REFER TO E-2001 FOR NEW LOCATION.

01 PARTIAL FIRST FLOOR DEMOLITION PLAN - POWER

SCALE: 1/8" = 1'-0"

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

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CITY OF AURORA
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APPROVED AS NOTED
DATE APPROVED JUL 09 2009

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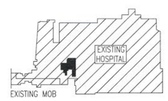
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KEY PLAN
FIRST FLOOR



COLORADO REGISTERED
RICHARD L. RUSH
PROFESSIONAL ENGINEER
04/15/09

Revisions

NO.	ISSUE	DATE
1	ADDENDUM #2	04-22-09

Sheet Information

Date	03-06-2009
Job Number	142542.000
Drawn	TF
Checked	MM
Approved	MM

Title

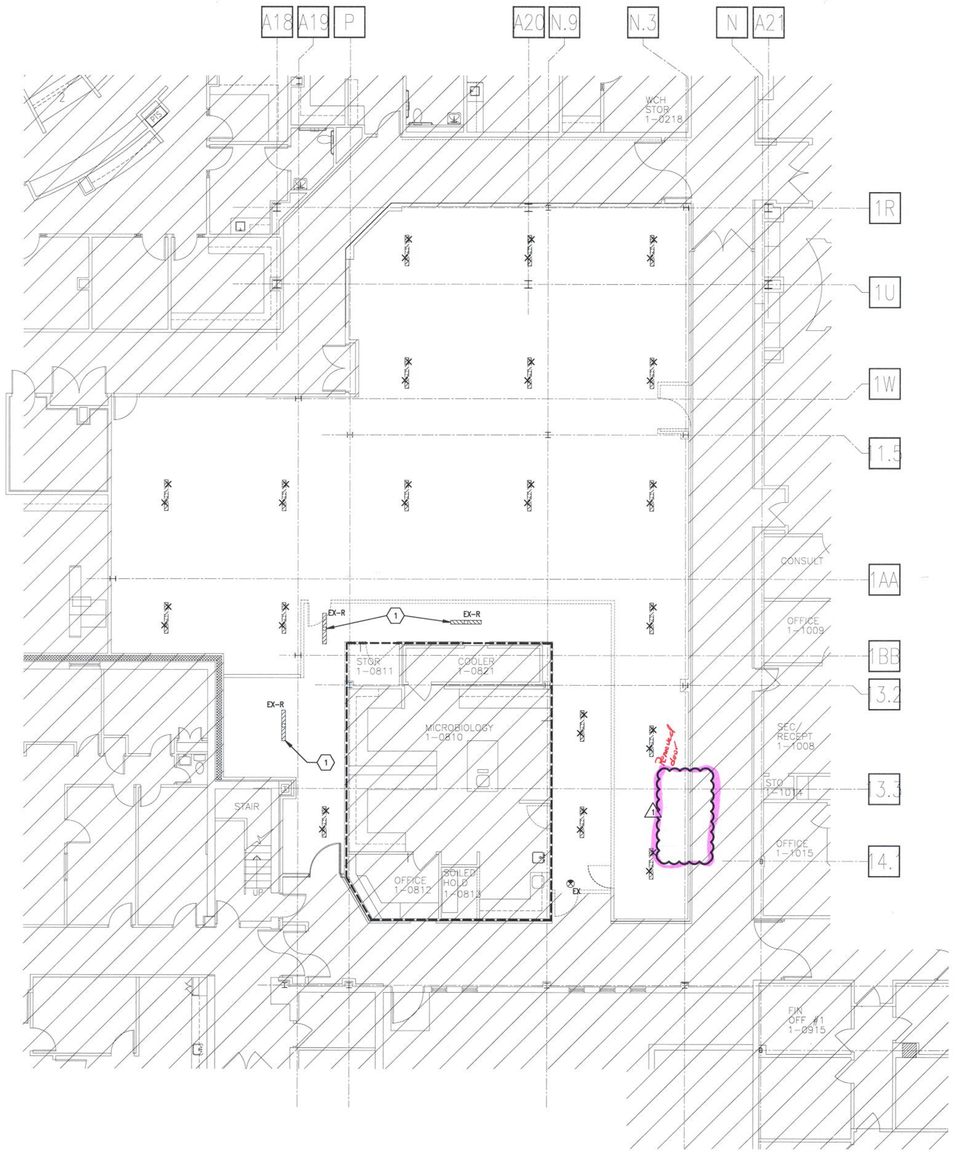
POWER DEMOLITION PLAN
FIRST FLOOR

Sheet

ED-2001

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01 PARTIAL FIRST FLOOR DEMOLITION PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. ALL DEMO'ED LIGHT FIXTURES SHALL BE RETURNED TO FACILITY.

LEGEND NOTES

1 RELOCATE EXISTING LIGHT FIXTURE. THOROUGHLY CLEAN AND RELAMP PRIOR TO RE-INSALLATION.

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ELECTRICAL SECTION
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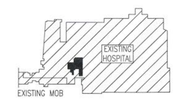
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KEY PLAN

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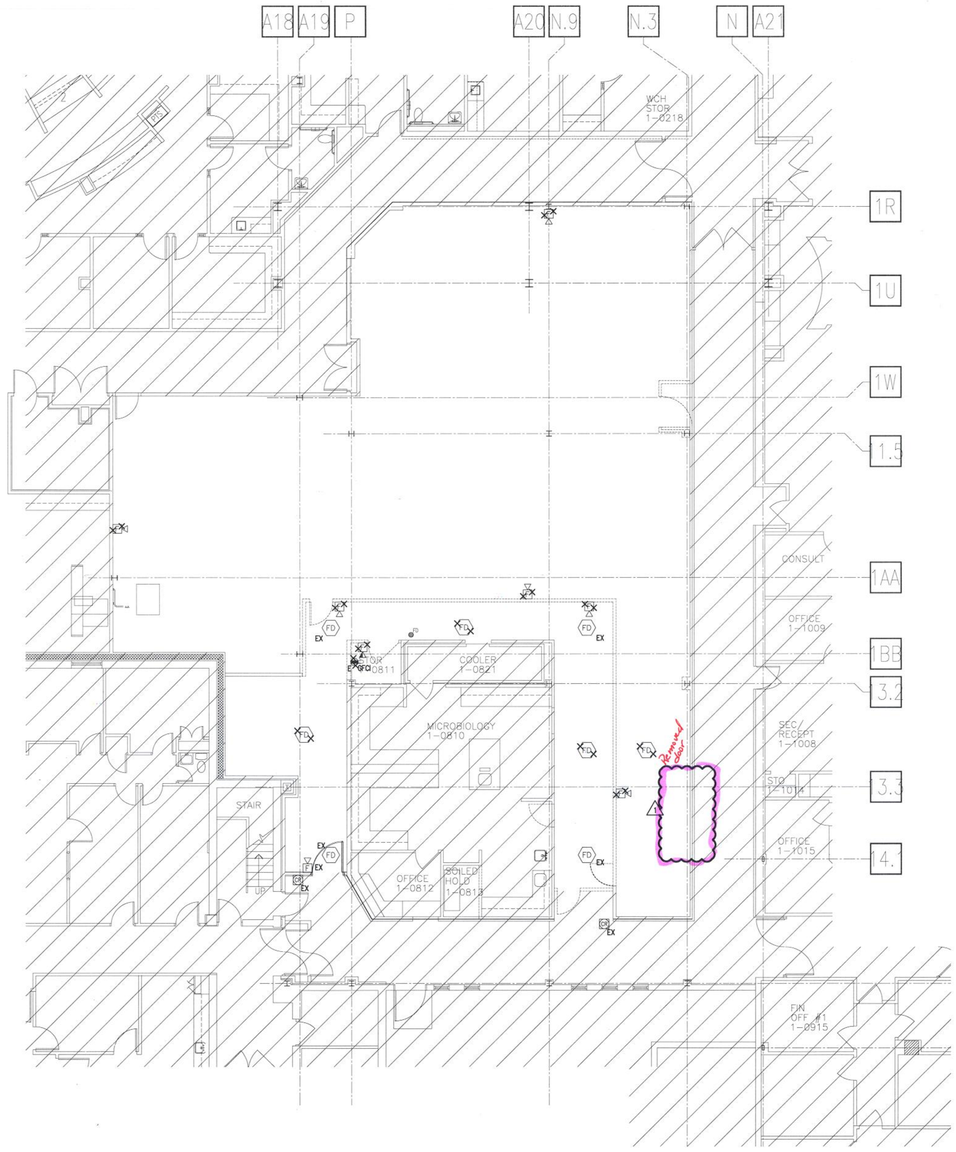
LIGHTING DEMOLITION PLAN FIRST FLOOR

Sheet

ED-3001

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01 PARTIAL FIRST FLOOR DEMOLITION PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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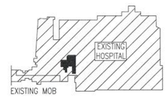
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KEY PLAN
FIRST FLOOR



COLORADO REGISTERED
RICHARD L. MIMS
31031
PROFESSIONAL ENGINEER
04/22/09

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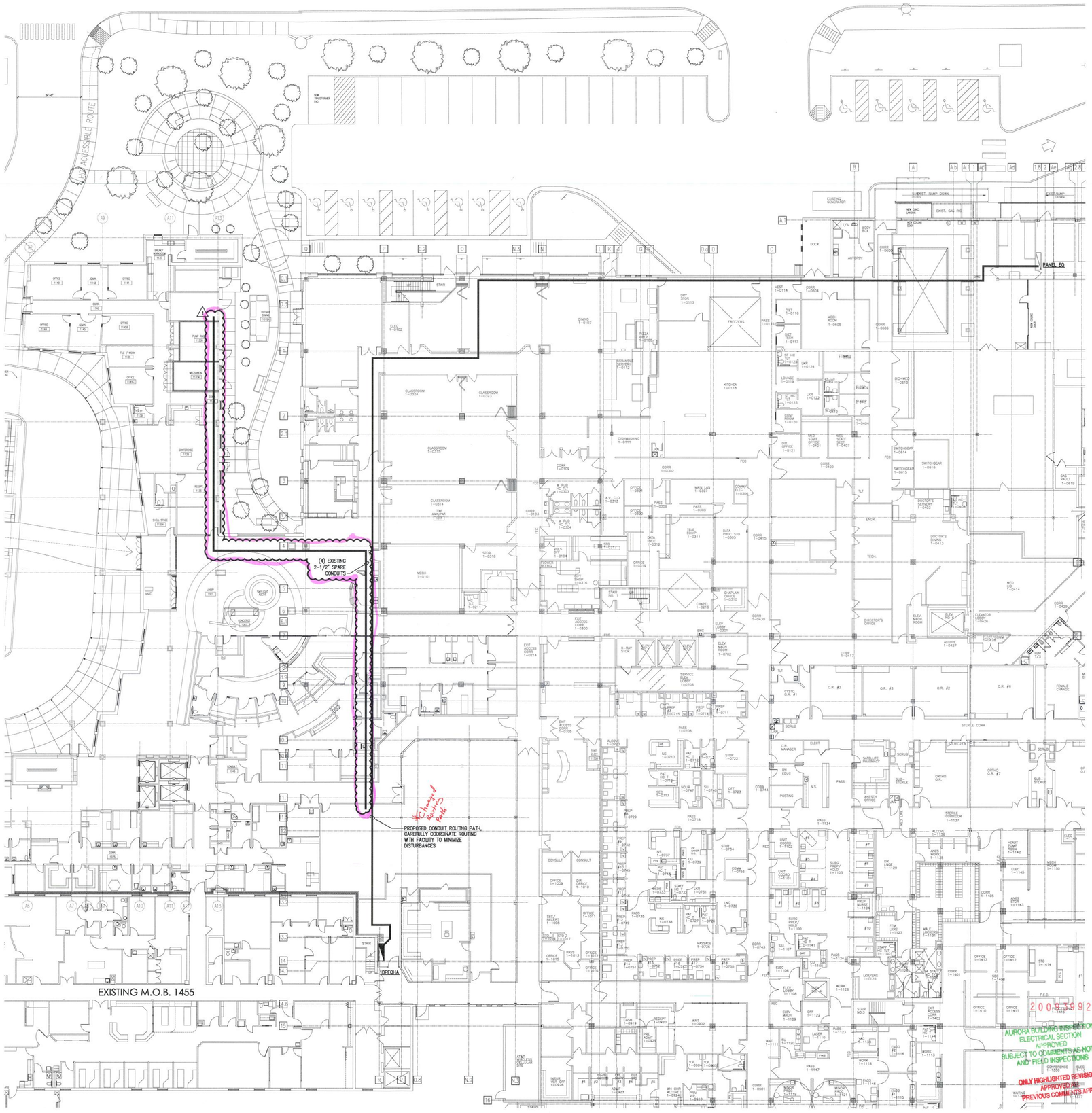
FIRE ALARM DEMOLITION PLAN FIRST FLOOR

Sheet

ED-4001

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01 PARTIAL FIRST FLOOR PLAN - OVERALL
SCALE: 1/16" = 1'-0"

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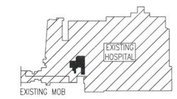
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KEY PLAN
FIRST FLOOR



COLORADO REGISTERED RICHARD L. ROSE PROFESSIONAL ENGINEER 04/22/09

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Title

POWER
OVERALL PLAN
FIRST FLOOR

Sheet

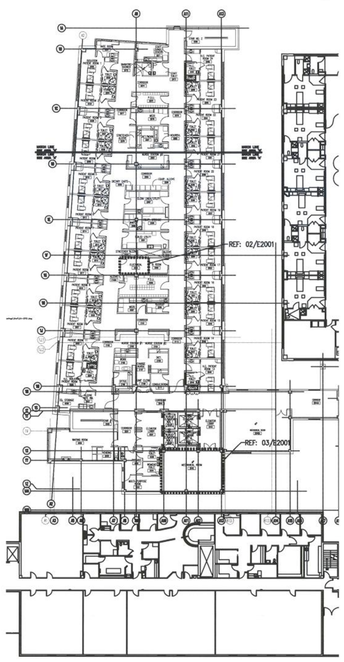
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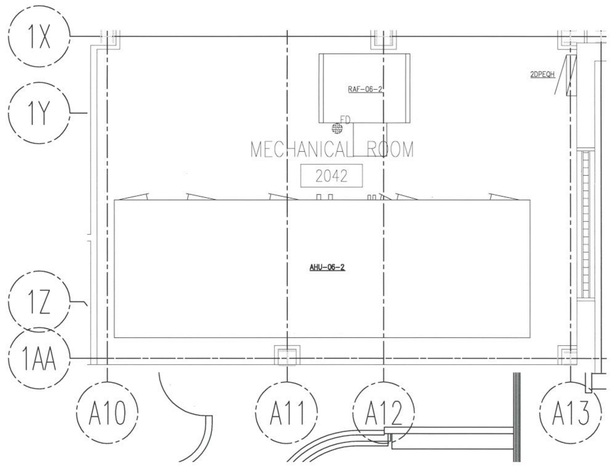
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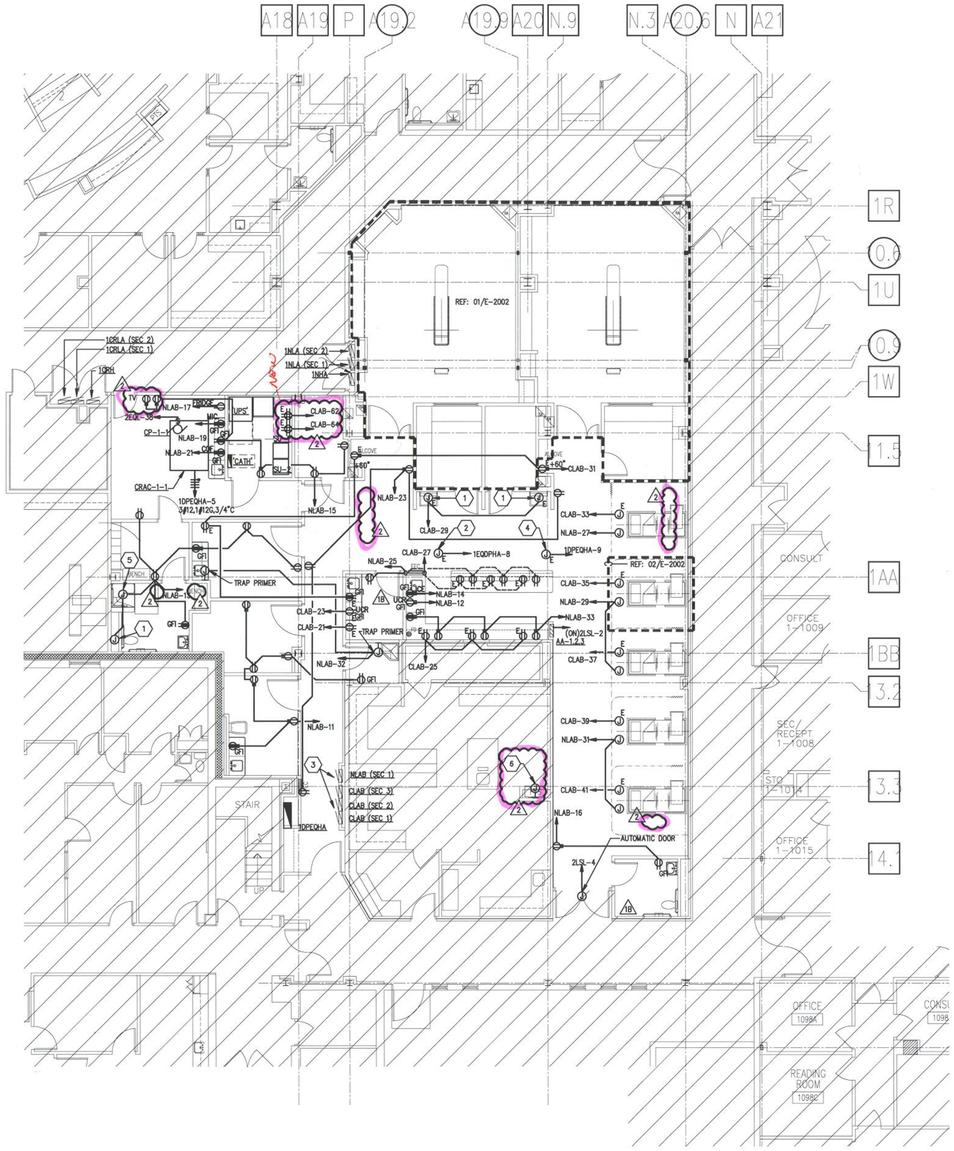
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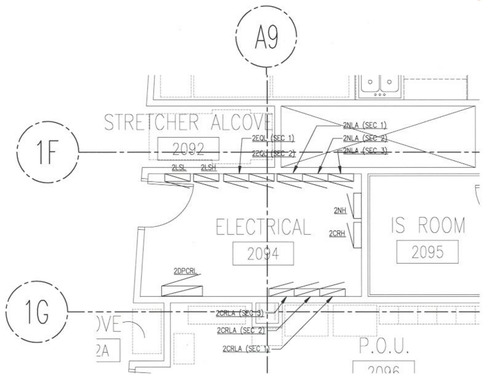


2ND FLOOR
04 OVERALL PLAN
SCALE: 1/32" = 1'-0"



ENLARGED 2ND FLOOR
03 MECHANICAL ROOM
SCALE: 1/4" = 1'-0"





ENLARGED 2ND FLOOR
02 ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

01 PARTIAL FIRST FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

2009399209

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GENERAL NOTES

A. COORDINATE ALL DEVICE ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
B. ~~CONDUIT AND WIRING SHALL BE SUITABLE FOR USE AS A~~ GROUND PATH. ADDITIONALLY, A GROUND CONDUCTOR SHALL BE SUPPLIED WITHIN ALL CONDUIT SYSTEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

~~INSPECTION~~
~~ELECTRICAL SECTION~~
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DATE APPROVED JUL 09 2009

LEGEND NOTES

1. PROVIDE 120V CONNECTION TO I.R. CONTROLS.
2. FOR CONNECTION TO VAV CONTROLS. PROVIDE 277V CONNECTION TO EACH VAV BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT BOX LOCATIONS.
3. PROVIDE #10G CONNECTION BETWEEN THESE PANELS, REF: 08/E6001.
4. PROVIDE 277V CONNECTION TO FIRE/SMOKE DAMPERS. PROVIDE 277V/CONTROL VOLTAGE TRANSFORMER EQUAL TO SQUARE D T-TYPE. COORDINATE CONTROL VOLTAGE AND (VA) REQUIREMENTS WITH CONTROLS CONTRACTOR.
5. FOR CONNECTION TO INTEGRAL SHOWER LIGHT. REFER E3001 FOR SWITCHING.
6. RELOCATE EXIST CIRCUIT PREVIOUSLY FEEDING PTS STATION.

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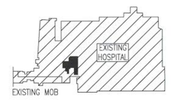
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KEY PLAN
FIRST FLOOR



COLORADO LICENSED
JOHN MOSS
41486
05/05/09
PROFESSIONAL ENGINEER

	Revisions	
1B	ADDENDUM #1	04-29-09
2	ADDENDUM #2	04-22-09

NO.	ISSUE	DATE

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Title

POWER PLAN FIRST FLOOR

Sheet

E-2001

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GENERAL NOTES

A. COORDINATE ALL DEVICE ELEVATIONS WITH ARCHITECTURAL DRAWINGS. ~~ALL CONDUIT AND HYDRAULIC PIPING SHALL BE BONDED TO FORM A CONTINUOUS~~ GROUND PATH. ADDITIONALLY, A GROUND CONDUCTOR SHALL BE SUPPLIED WITHIN ALL CONDUIT SYSTEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 1B

CATH LAB GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO PHILIPS INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR INSTALLATION OF CATH EQUIPMENT. PLACEMENT OF EQUIPMENT AND SUPPORT SYSTEMS SHOWN ON THIS DRAWING ARE NOT INDICATIVE OF THE EXACT PLACEMENTS OF THE SYSTEM. ELECTRICAL CONTRACTOR MUST COORDINATE WITH PHILIPS INSTALLATION DRAWINGS FOR THE EXACT PLACEMENT AND SIZING OF THE SYSTEMS. SEE PHILIPS INSTALLATION DRAWINGS FOR COMPLETE DETAILS.

B. ADDITIONAL INTERCONNECTING CONDUITS AND WIRING FOR EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR ARE SHOWN ON PHILIPS INSTALLATION DRAWINGS. REFER TO THE PHILIPS INSTALLATION DRAWINGS FOR ADDITIONAL CONDUITS, RACEWAY, AND WIRING REQUIREMENTS FOR INSTALLATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRENCH, UNDER FLOOR, VERTICAL, SURFACE, AND ABOVE CEILING DUCT AND CONDUITS SHOWN ON PHILIPS INSTALLATION DRAWINGS.

D. ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE AND INSTALL ALL CONTRACTOR/OWNER PROVIDED EQUIPMENT, CONDUITS, AND WIRING INDICATED ON DRAWINGS.

E. PDU IS A SEPARATELY DERIVED SYSTEM. PROVIDE #1 GROUNDING ELECTRODE IN 3/4"C FROM PDU TO BUILDING STEEL. REFER TO PHILIPS GROUNDING BUSBAR DIAGRAM ON 'ED2' FOR ADDITIONAL GROUNDING REQUIREMENTS.

F. CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING RELAYS AS DETAILED ON PHILIPS SHEET 'ED2'. CONTRACTOR SHALL ALSO PROVIDE 120/24V CONTROL TRANSFORMER FOR CONTROL OF LIGHTING. REFER TO PHILIPS SHEET 'ED2' FOR ADDITIONAL INFORMATION.

G. ALL CONDUIT SHALL BE UNDERFLOOR, WITHIN PARTITION OR ABOVE THE CEILING. THERE SHALL BE NO EXPOSED CONDUIT EXCEPT OVERHEAD CONDUIT IN ROOMS WITHOUT CEILINGS.

CATH LAB LEGEND NOTES

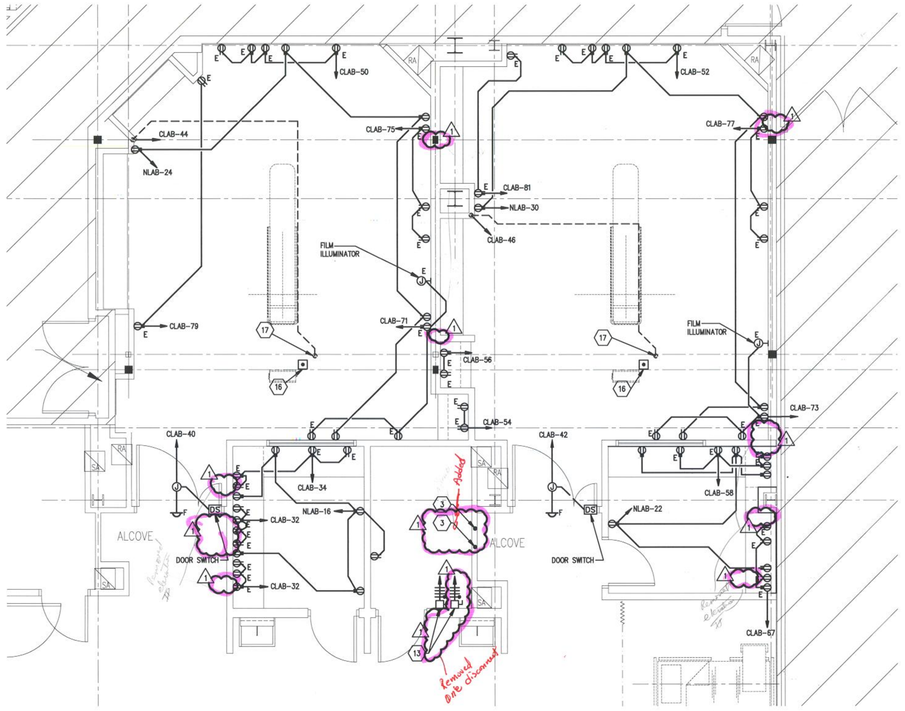
3. PROVIDE A CENTRAL GROUND BUSBAR MOUNTED IN 12"W X 12"H X 4"D PULL BOX WITH HINGED COVER. SURFACE MOUNT TO ABOVE UPPER WALL RACEWAY. PROVIDE #12G IN 3/4"C FROM GROUND BUSBAR TO ALL ROOM RECEPTACLES.

5. TRANSFORMER FOR SURGICAL LAMP. LOCATE IN EQUIPMENT CLOSET ON TOP OF 40E CABINET. COORDINATE EXACT TRANSFORMER LOCATION WITH PHILIPS. PROVIDE 120V POWER FROM ????-?? VIA 2#12,1#12G,3/4"C.

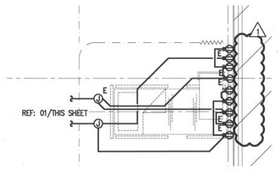
13. PROVIDE 200/125/3P ENLOSED CIRCUIT BREAKER DISCONNECT. CIRCUIT BREAKER SHALL BE PROVIDED WITH SHUNT TRIP OPERATOR. PROVIDE POWER TO SHUNT TRIP OPERATOR FROM CIRCUIT CLAB-40 (CATH #1) AND CLAB-42 (CATH #2) VIA 2#12,1#12G,3/4"C. PROVIDE POWER FROM PANEL 1DPCRH-10 (CATH #1) AND 1DPCRH-11 (CATH #2) VIA 3#3/0,1#1/0G, 3"C.

16. PROVIDE (1)120V CIRCUIT FROM PANEL CLAB-57 & CLAB-59 (CATH #1, CATH #2 RESPECTIVELY) AND (1)120V CIRCUIT FROM PANEL NLAB-18 & NLAB-20 (CATH #1, CATH #2 RESPECTIVELY) VIA 2#12,1#12G,3/4"C FOR CONNECTION TO BOOM MOUNTED CONVENIENCE AND EMERGENCY POWER RECEPTACLES.

17. FLOOR PEDESTAL. PROVIDE (4) EMERGENCY OUTLETS IN FLOOR PEDESTAL. COORDINATE EXACT LOCATION WITH PHILIPS EQUIPMENT AND ARCHITECTURAL PLANS.



01 ENLARGED CATH LAB PLAN - POWER
SCALE: 1/4" = 1'-0"



03 ENLARGED TYPICAL PACU PLAN - POWER
SCALE: 1/4" = 1'-0"

1 - Removed elevations

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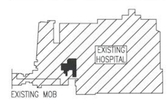
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KEY PLAN
FIRST FLOOR



COLORADO LICENSED
BRANDON MONTGOMERY
41486
05/05/09
PROFESSIONAL ENGINEER

Revisions

1	ADDENDUM #2	04-22-09
1B	ADDENDUM #1B	04-29-09

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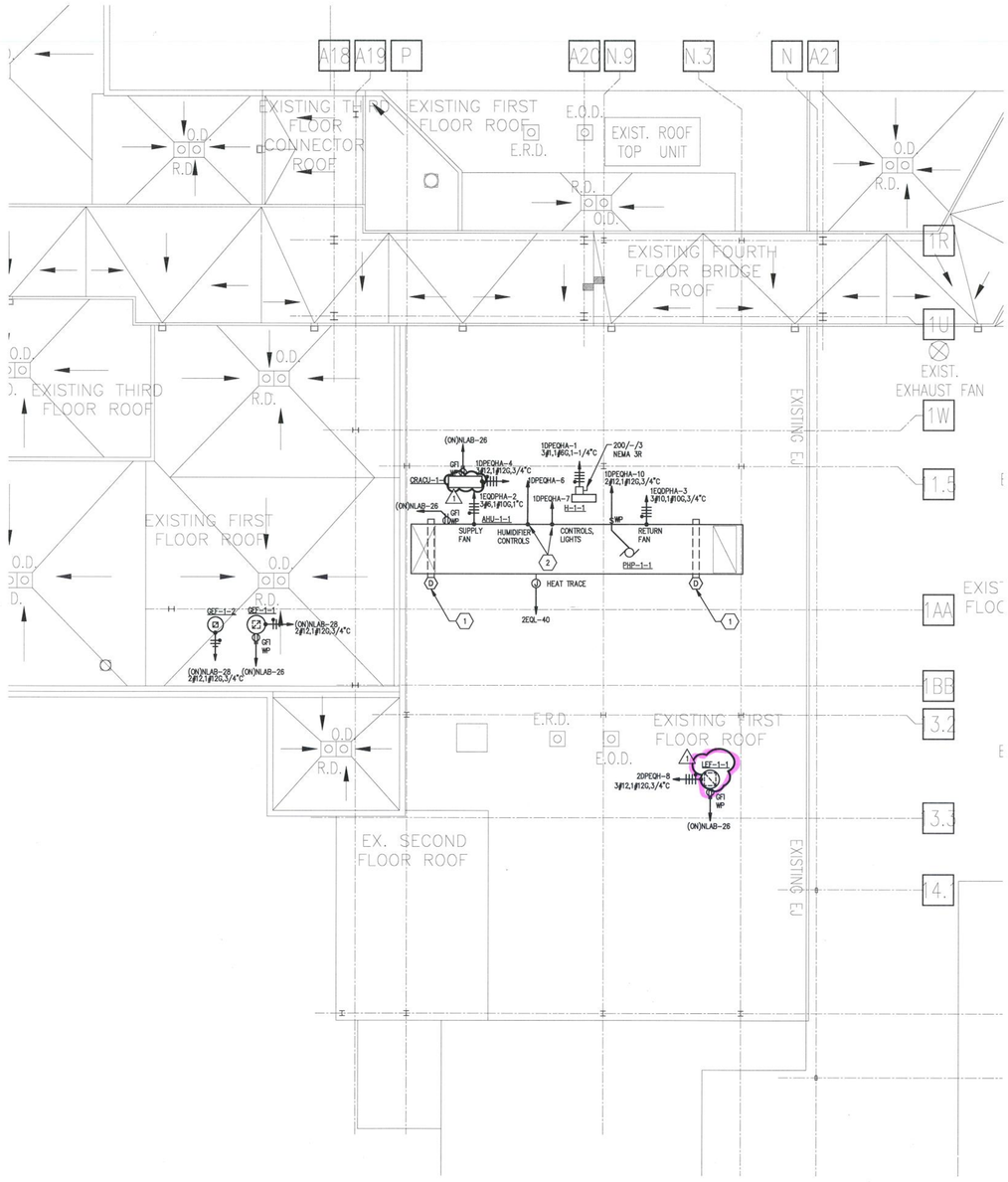
POWER PLAN FIRST FLOOR

Sheet

E-2002

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LEGEND NOTES

1. PROVIDE CONNECTION TO FIRE ALARM SYSTEM.
2. PROVIDE 277V/CONTROL VOLTAGE TRANSFORMER EQUAL TO SQU. T-TYPE. COORDINATE CONTROL VOLTAGE AND (VA) REQUIREMENT WITH CONTROLS CONTRACTOR.

01 PARTIAL ROOF PLAN - POWER

SCALE: 1/8" = 1'-0"

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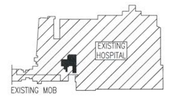
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KEY PLAN
FIRST FLOOR





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POWER PLAN ROOF

Sheet

E-200R

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COMcheck Software Version 3.6.0
Interior Lighting Compliance Certificate

2006 IECC

Section 1: Project Information

Project Type: **Addition**
Project Title : Aurora Cath Lab Addition

Construction Site:
1501 S. Potomac St
Aurora, CO 80012

Owner/Agent:

Designer/Contractor:
Tyler Fritz
ccrd partners
8301 E. Prentice Ave
Suite 200
Greenwood Village, CO 80111
303.694.4755

Section 2: General Information

Building Use Description by: **Activity Type**

Activity Type(s)	Floor Area
Hospital	4535

Section 3: Requirements Checklist

Interior Lighting:

☒ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
5442	5389	YES

Controls, Switching, and Wiring:

☒ 2. Independent controls for each space (switch/occupancy sensor).
Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

N/A ☒ 3. Master switch at entry to hotel/motel guest room.

N/A ☒ 4. Individual dwelling units separately metered.

☒ 5. Each space provided with a manual control to provide uniform light reduction by at least 50%.
Exceptions:

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft.

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ATTACH TO SHEET E-3001

☒ 6. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
Exceptions:

Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

N/A ☒ 7. Photocell/astronomical time switch on exterior lights.
Exceptions:

Lighting intended for 24 hour use.

☒ 8. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exceptions:

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2006 IECC requirements in COM*check* Version 3.6.0 and to comply with the mandatory requirements in the Requirements Checklist.

TYLER FRITZ - ELECTRICAL ENGINEER		06.29.09
Name - Title	Signature	Date

2009399209

COM*check* Software Version 3.6.0

Interior Lighting Application Worksheet

2006 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Hospital	4535	1.2	5442
		Total Allowed Watts =	5442

Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Hospital (4535 sq.ft.)				
Linear Fluorescent 1: A1: 2x4 D/I / 48" T8 32W / Electronic	2	9	59	531
Linear Fluorescent 2: B2: 2x4 LENSED / 48" T8 32W / Electronic	1	5	30	150
Linear Fluorescent 3: A2: 2x4 D/I / 48" T8 32W / Electronic	3	4	86	344
Compact Fluorescent 1: C1/C2/C3: 6" DOWNLIGHT / Triple 4-pin 26W / Electronic	1	16	26	416
Linear Fluorescent 5: A3: 2X2 D/I / 24" T8 17W / Electronic	2	1	30	30
Linear Fluorescent 6: H1: 4' U/C / 46" T5 28W / Electronic	1	4	32	128
Linear Fluorescent 7: H1: 3' U/C / 35" T5 21W / Electronic	1	6	25	150
Linear Fluorescent 8: B3: 2X2 LENSED / 24" T8 17W / Electronic	3	16	51	816
Linear Fluorescent 9: H1: 2' U/C / 22" T5 14W / Electronic	1	3	17	51
Linear Fluorescent 10: EX-R: STRIP / 48" T8 32W / Electronic	2	3	59	177
Linear Fluorescent 11: (EX)B5: 2X4 LENSED / 48" T8 32W / Electronic	4	22	118	2596
			Total Proposed Watts =	5389

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts =	5442
Total Proposed Watts =	5389
Project Compliance =	53

Interior Lighting PASSES: Design 1% better than code.

2009399209

Columbia LIGHTING

4PS24-4, 4PS24-6

2' x 4' Specification Grade Static Troffer / 4 or 6-Lamp T5, T5HO, T8



PROJECT INFORMATION

Medical Center of Aurora	B5
Project Name	Type
4PS24-432G-RAA12.125M-EB8PRLH277-PAF-SLL-F0841-C488	
Catalog No.	Date

FEATURES

- 4¼" deep troffer eliminates lens shadowing
- Lamp-to-lens spacing is over 2"
- Contoured housing maximizes photometric performance with uniform lens brightness
- Mitered corners on door present a clean uninterrupted appearance
- Rolled edge housing on all four sides makes the fixture safer and easier to handle
- Heavy duty door frame enhances appearance from eye level
- Snug door fit eliminates light leaks

HOUSING
Fixture is constructed of die formed and embossed code gauge steel. End caps are hinged and riveted to the housing for added rigidity. Designed for installation in all ceilings as shown below. Specify exact ceiling type. Integral T-bar clips are located in the end cap.

BALLAST & ELECTRICAL
All luminaires are completely wired with class "P," thermally protected, resetting, HPF ballast, sound rated A. Lampholders are medium bi-pin with positive retention. Furnished with an access plate.

FINISH
All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel. For a post painted housing finish suffix catalog number with PAF.

SHIELDING
Standard lens is a 100% prismatic virgin pattern 12. For other available lenses consult lens option sheet or contact your Columbia representative. Standard flush door is formed steel with mitered corners. Doors are retained by cam action latches, are easily removed without tools, and hinge from either side. Regressed or flush aluminum doors with mitered corners are also available.

CERTIFICATION
All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE **4PS24-432G-FSA12-EU-PAF**

4PS	24	–	4	32	G	–	RA	A12.125	–	EB8PRLH	277	–	PAF-SLL-F0841-C488

MODEL
- 4PS Specification Grade Static Troffer

SIZE
- 24 2'×4'

NO. OF LAMPS
- 4 Four
- 6 Six

LAMP TYPE
- 28 4', T5, 28 Watt
- 32 4', T8, 25, 30, 28 or 25 Watt
- 54 4', T5HO, 54 or 51 Watt

CEILING TYPE
- G Inverted T-bar (std.)
- F Overlap Flange (4½" overall fixture height)
- M Fit-in Flange (4½" overall fixture height)

DOOR STYLE
- FS Flush Steel
- FA Flush Aluminum
- RA Regressed Aluminum
- SFA Silver Flush Aluminum
- SRA Silver Regressed Aluminum

SHIELDING
- A12 Acrylic Prismatic Pattern 12
- A19 Acrylic Prismatic Pattern 19
- PC1 ½" × ½" × ½" Specular Silver Polystyrene Louver
- PC2 1½" × 1 ½" × 1" Specular Silver Polystyrene Louver

For thicker lens, specify - Example: A12.125

BALLAST
- E Electronic T8, Instant Start
- 4E 4-Lamp Electronic T8, Instant Start
- EP Electronic T5 or T8, Programmed Start
- 4EP 4-Lamp Electronic T5 (HO only) (N/A 347V) or T8, Programmed Start

For specific ballast vendor, show as option

VOLTAGE
- U 120V-277V
- 347 347V

OPTIONS
- F0735 35K 75 CRI T8 Lamps Installed
- F0835 35K 80CRI T8 Lamps Installed
- F5835 35K 80CRI T5 Lamps Installed
- GLR Fast Blow Fuse
- EL Emergency Battery Pack
- PAF Paint After Fabrication
- SLL Spring Loaded Latches
- MS9 Master/Satellite Pair w/9' Harness
- NYCU NYC Compliant, Union Labeled

PRLH - Program Rapid Start Low Harmonic <10% THD Ballast

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Hubbell Lighting, Inc.

Columbia LIGHTING

4PS24-4, 4PS24-6

2' x 4' Specification Grade Static Troffer / 4 or 6-Lamp T5, T5HO, T8

PHOTOMETRIC DATA

Test **14269** Test Date **3/31/06**

LUMINAIRE DATA

Luminaire	4PS24-432G-FSA12-E-PAF 4PS Lensed Troffer 2' x 4' 4-Lamp White Troffer with Prismatic A12 Acrylic Lens
Ballast	REL-4P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Total Input Watts	110
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.22 90° = 1.27
Luminous Opening in Feet	Length: 3.81 Width: 1.81 Height: 0.00

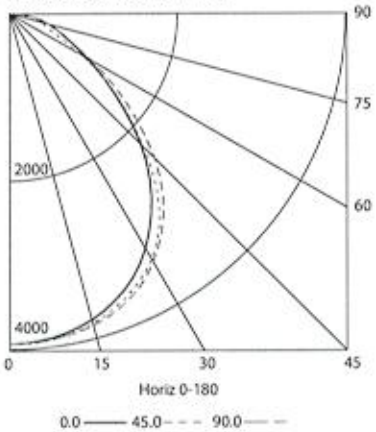
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	3089	26.6	32.8
0-40	5004	43.1	53.1
0-60	8046	69.4	85.4
0-90	9418	81.2	100.0
0-180	9418	81.2	100.0

ENERGY DATA

Total Luminaire Efficiency	81.2%
Luminaire Efficacy Rating (LER)	75
IESNA RP-1-1993 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.20 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	6142	6142	6142	6142	6142
30	5825	5915	6090	6151	6159
40	5296	5367	5546	5719	5793
45	4883	4865	4995	5238	5384
50	4315	4310	4410	4684	4798
55	3788	3715	3788	4038	4169
60	3322	3034	3053	3265	3553
65	2981	2493	2364	2652	3058
70	2861	2387	2108	2451	2857
75	2913	2545	2479	2539	2925
80	2975	2831	2921	2831	2957
85	3313	3170	3206	3098	3098

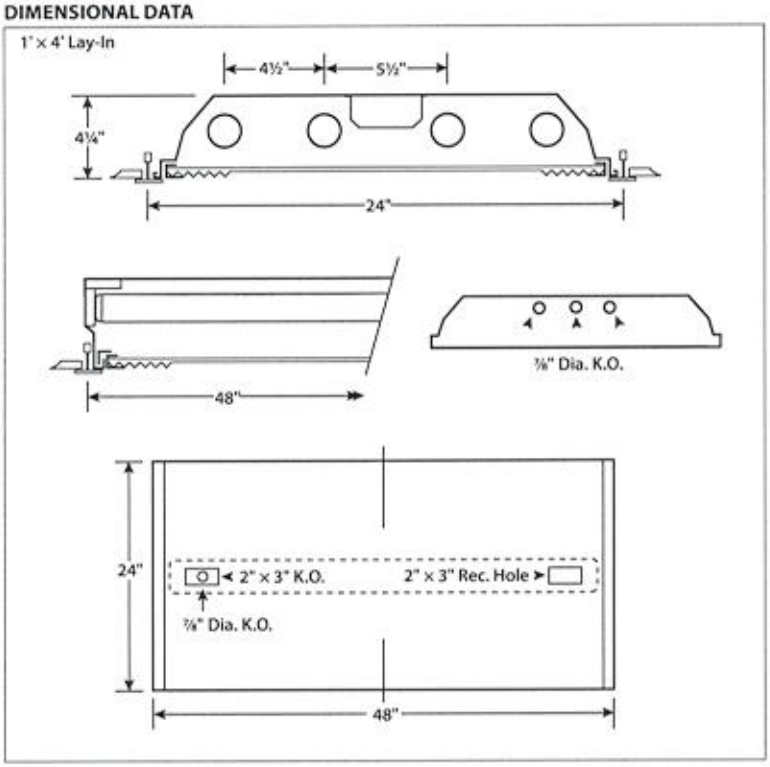
COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	89	85	82	79	87	84	81	78	80	78	76	69
	2	82	76	70	66	80	74	69	65	71	67	64	59
	3	75	67	61	56	73	66	60	56	64	59	55	51
	4	69	60	54	48	67	59	53	48	57	52	47	45
	5	64	54	47	42	62	53	47	42	52	46	42	39
	6	59	49	42	37	58	48	42	37	47	41	37	35
	7	55	45	38	33	54	44	38	33	43	37	33	31
	8	52	41	34	30	50	40	34	30	39	34	30	28
	9	48	38	31	27	47	37	31	27	36	31	27	25
	10	45	35	29	25	44	35	29	25	34	28	24	23

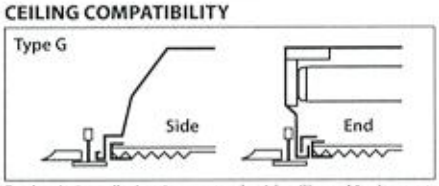
RCR

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance

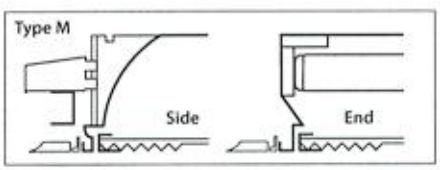
DIMENSIONAL DATA



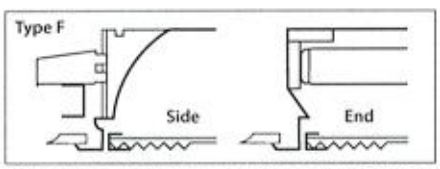
CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 1½" allowed.



"Fit-in" style extruded trim aligns with modular tile joint. Fixture is supported from concealed suspension, includes adjustable wing hangers. 4½" overall fixture height.



Overlapping trim conceals edges of ceiling opening. Wing hanger suspension included. 4½" overall fixture height.

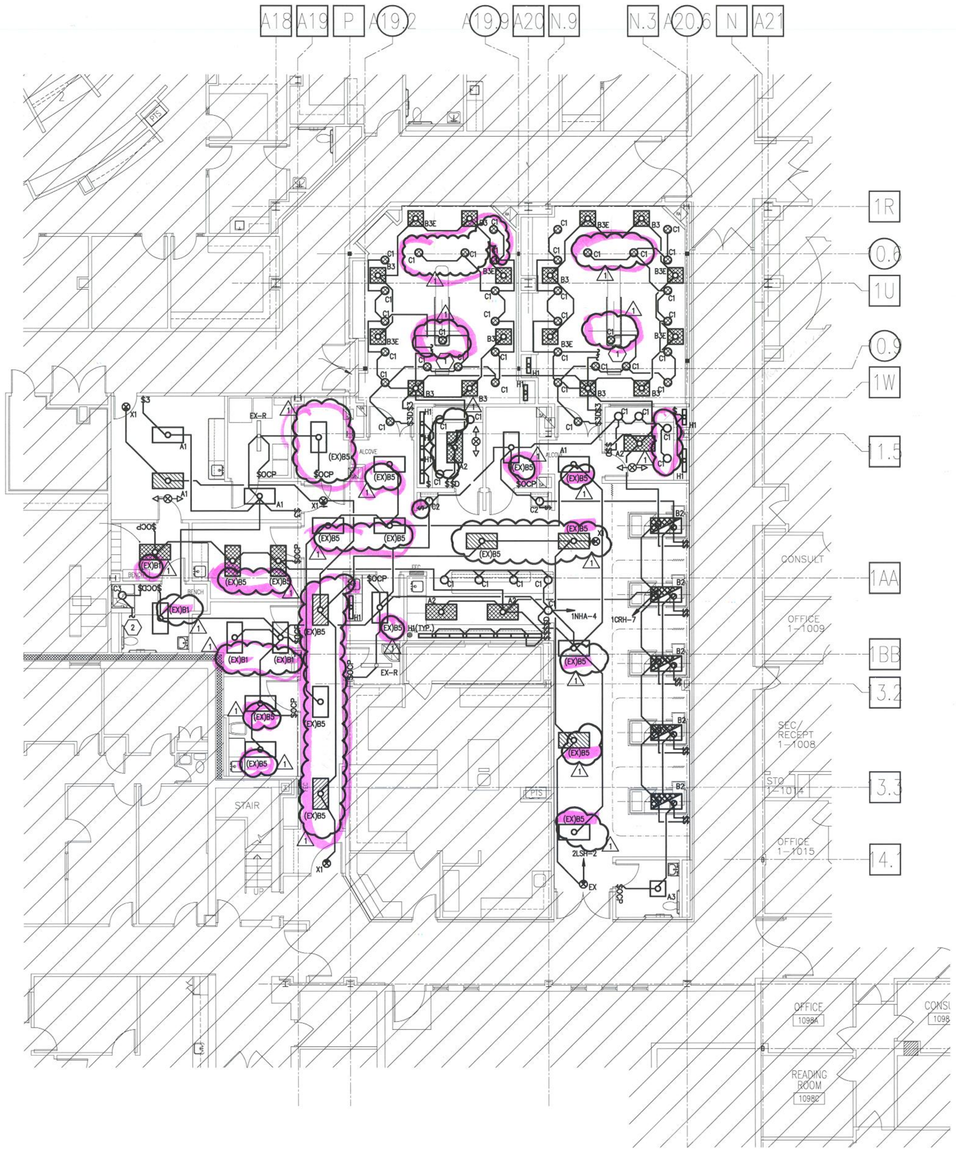
Flanged cut out dimension for single unit only: 24⅛" x 48⅛"

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

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Hubbell Lighting, Inc.



01 PARTIAL FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE INSTANT START, <10%THD BALLASTS FOR FIXTURES ON LIFE-SAFETY CIRCUITS.

B. CONNECT ALL TYPE 'H1' FIXTURES TO NEAREST 120V NORMAL RECEPTACLE CIRCUIT.

C. ALL CONDUIT AND FITTINGS SHALL BE SUITABLE FOR USE AS A GROUND PATH. ADDITIONALLY, A GROUND CONDUCTOR SHALL BE SUPPLIED WITHIN ALL CONDUIT SYSTEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 1B

LEGEND NOTES

1. TO FOOT SWITCH. REFER TO PHILIPS DRAWING 'ED2' FOR ROOM LIGHTING CONNECTION AND CONTROL DETAIL. PROVIDE ALL NECESSARY RELAYS, CONTROL, ETC FOR CONNECTION AND CONTROL WITH PHILIPS CATH EQUIPMENT.
2. CONNECT TO 120V NORMAL RECEPTACLE SERVING TOILET ROOM.

2009399209

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

ONLY HIGHLIGHTED REVISIONS
APPROVED ALL
PREVIOUS COMMENTS APPLY.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED KT
DATE APPROVED JUL 09 2009

Lighting Compliance
Report attached & Fixt.
Cut-sheets (5 pages)

PERKINS & WILL
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Dallas, Texas 75231, USA
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www.perkinswill.com

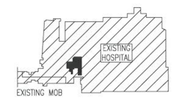
Medical Center of Aurora
1501 S. Potomac
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Cath Lab
Aurora, Colorado 80012
HCA
Project # 306660005

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KEY PLAN
FIRST FLOOR



COLORADO LICENSED
KEVIN MONTGOMERY
41486
PROFESSIONAL ENGINEER
05/05/09

Revisions		
1	ADDENDUM #2	04-22-09
1B	ADDENDUM #1B	04-29-09

NO.	ISSUE	DATE

Sheet Information	
Date	03-06-2009
Job Number	142542.000
Drawn	MM
Checked	MM
Approved	MM

Title

LIGHTING PLAN FIRST FLOOR

Sheet

E-3001

Issued for Construction

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MOTOR FEEDER SCHEDULE
480 VOLT 3 PHASE

MOTOR FEEDER TAG	HP	FLA	CB	FEEDER DESCRIPTION
5.M	5	7.6	15	3#12, 1#12 G, 3/4" C
7.5.M	7-1/2	11	20	3#12, 1#12 G, 3/4" C
10.M	10	14	25	3#12, 1#10 G, 3/4" C
15.M	15	21	40	3#10, 1#10 G, 3/4" C
20.M	20	27	50	3#8, 1#10 G, 3/4" C
25.M	25	34	60	3#6, 1#10 G, 3/4" C
30.M	30	40	70	3#6, 1#8 G, 3/4" C
40.M	40	52	100	3#4, 1#8 G, 1" C
50.M	50	65	125	3#3, 1#6 G, 1-1/4" C
60.M	60	77	150	3#1, 1#6 G, 1 1/4" C
75.M	75	96	175	3#1, 1#6 G, 1 1/4" C
100.M	100	124	225	3#2/0, 1#4 G, 2" C
125.M	125	156	300	3#3/0, 1#4 G, 2" C
150.M	150	180	350	3#4/0, 1 #3 G, 2" C
200.M	200	240	450	3#350KCM, 1#2 G, 2-1/2" C

FEEDER SCHEDULE
600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4 15.4I, 20.4I	3#12, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 1#12 IG, 3/4" C
25.3, 30.3 25.4, 30.4 25.4I, 30.4I	3#10, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 1#10 IG, 3/4" C
35.3, 40.3 35.4, 40.4 35.4I, 40.4I	3#8, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 1#10 IG, 1" C
45.3, 50.3 45.4, 50.4 45.4I, 50.4I	3#6, 1#10 G, 3/4" C 3#6, 1#8 N, 1#10 G, 1" C 3#6, 1#8 N, 1#10 G, 1#10 IG, 1" C
60.3 60.4 60.4I	3#4, 1#10 G, 1" C 3#4, 1#4 N, 1#10 G, 1 1/4" C 3#4, 1#4 N, 1#10 G, 1#10 IG, 1-1/4" C
70.3 70.4 70.4I	3#4, 1#8 G, 1" C 3#4, 1#4 N, 1#8 G, 1-1/4" C 3#4, 1#4 N, 1#8 G, 1#8 IG, 1-1/4" C
80.3 80.4 80.4I	3#3, 1#8 G, 1-1/4" C 3#3, 1#3 N, 1#8 G, 1-1/4" C 3#3, 1#3 N, 1#8 G, 1#8 IG, 1-1/4" C
90.3 90.4 90.4I	3#2, 1#8 G, 1-1/4" C 3#2, 1#2 N, 1#8 G, 1-1/4" C 3#2, 1#2 N, 1#8 G, 1#8 IG, 1-1/4" C
100.3 100.4 100.4I	3#1, 1#8 G, 1-1/4" C 3#1, 1#1 N, 1#8 G, 1-1/2" C 3#1, 1#1 N, 1#8 G, 1#8 IG, 1-1/2" C
110.3 110.4 110.4I	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C 3#1, 1#1 N, 1#6 G, 1#6 IG, 1-1/2" C
125.3, 150.3 125.4, 150.4 125.4I, 150.4I	3#1/0, 1#6 G, 1-1/2" C 3#1/0, 1#1/0 N, 1#6 G, 2" C 3#1/0, 1#1/0 N, 1#6 G, 1#6 IG, 2" C
175.3 175.4 175.4I	3#2/0, 1#6 G, 2" C 3#2/0, 1#2/0 N, 1#6 G, 2" C 3#2/0, 1#2/0 N, 1#6 G, 1#6 IG, 2" C
200.3 200.4 200.4I	3#3/0, 1#6 G, 2" C 3#3/0, 1#3/0 N, 1#6 G, 2" C 3#3/0, 1#3/0 N, 1#6 G, 1#6 IG, 2" C
225.3 225.4 225.4I	3#4/0, 1#4 G, 2" C 3#4/0, 1#4/0 N, 1#4 G, 2-1/2" C 3#4/0, 1#4/0 N, 1#4 G, 1#4 IG, 2-1/2" C
250.3 250.4 250.4I	3#250KCM, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 1#4 IG, 2-1/2" C
300.3 300.4 300.4I	3#350KCM, 1#4 G, 2-1/2" C 3#350KCM, 1-350KCM N, 1#4 G, 3" C 3#350KCM, 1-350KCM N, 1#4 G, 1#4 IG, 3" C
350.3 350.4 350.4I	3#500KCM, 1#3 G, 3" C 3#500KCM, 1-500KCM N, 1#3 G, 3-1/2" C 3#500KCM, 1-500KCM N, 1#3 G, 1#3 IG, 3-1/2" C
400.3 400.4 400.4I	2 SETS EACH OF [3#3/0, 1#3 G, 2" C] 2 SETS EACH OF [3#3/0, 1#3/0 N, 1#3 G, 2-1/2" C] 2 SETS EACH OF [3#3/0, 1#3/0 N, 1#3 G, 1#3 IG, 2-1/2" C]
450.3 450.4 450.4I	2 SETS EACH OF [3#4/0, 1#2 G, 2" C] 2 SETS EACH OF [3#4/0, 1#4/0 N, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#4/0, 1#4/0 N, 1#2 G, 1#2 IG, 2-1/2" C]
500.3 500.4 500.4I	2 SETS EACH OF [3#250KCM, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 1#2 IG, 2-1/2" C]
600.3 600.4 600.4I	2 SETS EACH OF [3#350KCM, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 1#1 IG, 3" C]
700.3 700.4 700.4I	2 SETS EACH OF [3#500KCM, 1#1/0 G, 3" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#1/0 G, 3-1/2" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#1/0 G, 1#1/0 IG, 3-1/2" C]
800.3 800.4 800.4I	3 SETS EACH OF [3#300KCM, 1#1/0 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#1/0 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#1/0 G, 1#1/0 IG, 3" C]
900.3 900.4 900.4I	3 SETS EACH OF [3#350KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#2/0 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#2/0 G, 1#2/0 IG, 3" C]
1000.3 1000.4 1000.4I	3 SETS EACH OF [3#400KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#2/0 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#2/0 G, 1#2/0 IG, 3" C]
1200.3 1200.4 1200.4I	4 SETS EACH OF [3#350KCM, 1#3/0 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#3/0 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#3/0 G, 1#3/0 IG, 3-1/2" C]
1400.3 1400.4 1400.4I	4 SETS EACH OF [3#500KCM, 1#4/0 G, 3" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#4/0 G, 3-1/2" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#4/0 G, 1#4/0 IG, 3-1/2" C]
1600.3 1600.4 1600.4I	5 SETS EACH OF [3#400KCM, 1#4/0 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#4/0 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#4/0 G, 1#4/0 IG, 3-1/2" C]
2000.3 2000.4 2000.4I	6 SETS EACH OF [3#400KCM, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 1#250KCM IG, 3-1/2" C]
2500.3 2500.4 2500.4I	7 SETS EACH OF [3#500KCM, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 1#350KCM IG, 4" C]
3000.3 3000.4 3000.4I	8 SETS EACH OF [3#500KCM, 1#400KCM G, 3" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 3-1/2" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 1#400KCM IG, 4" C]
4000.3 4000.4 4000.4I	11 SETS EACH OF [3#500KCM, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 1#500KCM IG, 4" C]

LUMINAIRE SCHEDULE

A1 DESCRIPTION: 2X4 DIRECT/INDIRECT FLUORESCENT, RECESSED MOUNTE WITH FLUSH BRACKET, STATIC, DIE FORMED 20GA STEEL HOUSING, 20GA STEEL REFLECTOR WITH MATTE WHITE POWDERCOAT FINISH, LAMP COMPARTMENT CONSISTING OF 25GA PERFORATED REFRACTOR "BASKET" WITH .11" THICK WHITE ACRYLIC LENS INSERT, REMOVABLE BALLAST/LAMP MODULE TRAY, DUST COVER.
LAMP(S): 2- F032/841/ECO
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD, U.N.O.
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: FOCAL POINT #FLU-24-B-2-TB-S-XXX-G-PS-DC-WH
ACCEPT. MFR: METALUX
WILLIAMS

A2 DESCRIPTION: SAME AS 'A1' BUT 3-LAMP
LAMP(S): 3- F032/841/ECO
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD, U.N.O.
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: FOCAL POINT #FLU-24-B-3-TB-S-XXX-G-PS-DC-WH
ACCEPT. MFR: METALUX
WILLIAMS

A3 DESCRIPTION: NOT USED
LAMP(S):
BALLAST(S):
VOLTAGE:
INSTALLATION:
MANF:
ACCEPT. MFR:

(EX)B1 DESCRIPTION: EXISTING LIGHT FIXTURE FROM OWNER STOCK. LENSED 2X4, 2-LAMPS.
LAMP(S): 2 - F032/841/ECO
BALLAST(S): EXISTING
VOLTAGE: 277
INSTALLATION: RECESSED
MANF: EXISTING FROM OWNER STOCK
ACCEPT. MFR:

B1 DESCRIPTION: 2X4 DIRECT/INDIRECT FLUORESCENT, RECESSED MOUNTE WITH FLUSH BRACKET, STATIC, DIE FORMED 20GA STEEL HOUSING, 20GA STEEL REFLECTOR WITH MATTE WHITE POWDERCOAT FINISH, LAMP COMPARTMENT CONSISTING OF 25GA PERFORATED REFRACTOR "BASKET" WITH .11" THICK WHITE ACRYLIC LENS INSERT, REMOVABLE BALLAST/LAMP MODULE TRAY, DUST COVER.
LAMP(S): 2- F032/841/ECO
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: COLUMBIA #4PS24-232G-FAA12-3E277-PAF
ACCEPT. MFR: METALUX
WILLIAMS

B2 DESCRIPTION: SAME AS 'B1' BUT WITH 3-LAMPS, AND DUAL SWITCHED. CENTER LAMP SWITCHING SHALL BE SEPARATE FROM THE OUTBOARD LAMPS. 2 - LAMPS ON CRITICAL CIRCUIT, 1 - LAMP ON NORMAL CIRCUIT.
LAMP(S): 3 - F032/841/ECO
BALLAST(S): DUAL PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: COLUMBIA #4PS24-332G-FAA12-2(2E)277-PAF
ACCEPT. MFR: WILLIAMS
LIGHTOLIER

B3 DESCRIPTION: SAME AS 'B1' EXCEPT 2X2 AND 3-LAMP.
LAMP(S): 3 - F017/835/ECO
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: COLUMBIA #4PS22-317G-FAA12-2E277-PAF
ACCEPT. MFR: WILLIAMS
LIGHTOLIER

(EX)B5 DESCRIPTION: EXISTING LIGHT FIXTURE FROM OWNER STOCK. LENSED 2X4, 4-LAMPS.
LAMP(S): 4 - F032/841/ECO
BALLAST(S): EXISTING
VOLTAGE: 277V
INSTALLATION: RECESSED
MANF: EXISTING FROM OWNER STOCK
ACCEPT. MFR:

C1 DESCRIPTION: 6" FLUORESCENT DOWNLIGHT WITH VERTICAL LAMP, SELF FLANGED REFLECTOR, ANONDIZED LOW IRIDESCENT SEMI-SPECULAR RELFECTOR FINISH, 20GA STEEL HOUSING, 18GA SUPPORTING YOKE ASSEMBLY, JUNCTION BOX FOR THRU WIRING, WITH MINIMUM EFFICIENCY OF 55% AND MAX CANDELA/SQUARE METER IN 65-DEGREE CONE.
LAMP(S): 1 - CFTR26W/GX24Q/841
BALLAST(S): ADVANCE MARK 10 PROGRAM START DIMMING ELECTRONIC BALLAST, <10%THD
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: PRESCOLITE #CFT632EB-ADVANCE MARK 10 - WTF602HMFC-WRL26
ACCEPT. MFR: PORTFOLIO
ZUMTOBEL

C2 DESCRIPTION: SAME AS TYPE 'C1' WITHOUT DIMMING BALLAST
LAMP(S): 1 - CFTR26W/GX24Q/841
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 277
INSTALLATION: RECESSED LAY-IN GRID (OR DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM)
MANF: PRESCOLITE #CFT632EB - WTF602HMFC-WRL26
ACCEPT. MFR: PORTFOLIO
ZUMTOBEL

C3 DESCRIPTION: 6" FLUORESCENT DOWNLIGHT WITH VERTICAL LAMP, SELF FLANGED REFLECTOR, ANONDIZED LOW IRIDESCENT SEMI-SPECULAR RELFECTOR FINISH, 20GA STEEL HOUSING, 18GA SUPPORTING YOKE ASSEMBLY, JUNCTION BOX FOR THRU WIRING, WITH MINIMUM EFFICIENCY OF 55% AND MAX CANDELA/SQUARE METER IN 65-DEGREE CONE. PROVIDE WITH DIFFUSE LENS.
LAMP(S): 1 - CFTR26W/GX24Q/841
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 120
INSTALLATION: DRYWALL CEILING INSTALL. REF. ARCH. PLANS TO COORDINATE TRIM
MANF: PRESCOLITE #CFT632EB-STF602MFCDL
ACCEPT. MFR: PORTFOLIO
ZUMTOBEL

E DESCRIPTION: FIXTURE TYPES WITH AN 'E' SUFFIX SHALL BE PROVIDED WITH A SELF TEST/ SELF DIAG. FLUOR. EMERGENCY BALLAST, HIGH-TEMP MAINT.-FREE NICAD BATTERY, CHARGER & ELECTRONIC CIRCUITRY IN ONE RED METAL CASE, SOLID-STATE STATUS INDICATOR LT. & AUDIBLE ALARM (USER SELECTABLE), TEST SWITCH, UL LISTED FOR 2 LAMP, 3000 LUMEN OUTPUT (INITIAL) FOR 90 MIN.
LAMP(S): N/A
BALLAST(S): FLUORESCENT EMERGENCY BALLAST
VOLTAGE: 120/277V MULTI-TAP BALLAST
INSTALLATION: TEST SWITCH TO BE LOCATED ON WALL
MANF: BODINE #B30ST REDITEST

I DESCRIPTION: CAST ALUMINUM "IN-USE" SIGN, WHITE FACE, RED LETTERS, SINGLE FACE.
LAMP(S): LED
BALLAST(S): N/A
VOLTAGE: 120
INSTALLATION: SURFACE
MANF: DUAL-LITE #SESRW-SW3
WILLIAMS
SURE-LITE

H1 DESCRIPTION: SOLID FRONT UNDERCABINET LIGHT, 20 GA. STEEL HOUSING, PLIABLE NON-YELLOWNG FLAT P-12 PRISMATIC ACRYLIC LENS. 2'-0", 3'-0", 4'-0" AS REQUIRED. PROVIDE VARYING LENGTHS AS REQUIRED BY ARCHITECTURAL DETAILS AND ELEVATIONS TO RUN FIXTURES END TO END CONTINUOUSLY TO MAXIMIZE LENGTHS. PROVIDE INTEGRAL ROCKER SWITCH UNLESS NOTED OTHERWISE.
LAMP(S): 2- F8T5/841/ECO, 1-F8T5/841/ECO AND 1-F13T5/841/ECO, 2-F13T5/841/ECO
BALLAST(S): PROGRAM START ELECTRONIC BALLAST, <10%THD
VOLTAGE: 120
INSTALLATION: SURFACE
MANF: KENALL #UCSL(24)(33)(42)-SB-120-PRS-(SW)
NULITE
WILLIAMS

X1 DESCRIPTION: SINGLE FACE, RED LED EDGE-LIT EXIT SIGN, EXTRUDED ALUMINUM HOUSING, SATIN ALUMINUM FINISH
LAMP(S): LED
BALLAST(S): N/A
VOLTAGE: 277
INSTALLATION: CEILING MOUNTED
MANF: DUAL-LITE #LECSRNA
INFINITY
LIGHTOLIER

X2 DESCRIPTION: DUAL FACE, RED LED EDGE-LIT EXIT SIGN, EXTRUDED ALUMINUM HOUSING, SATIN ALUMINUM FINISH
LAMP(S): LED
BALLAST(S): N/A
VOLTAGE: 277
INSTALLATION: CEILING MOUNTED
MANF: DUAL-LITE #LECDRNA
INFINITY
LIGHTOLIER

LIGHT FIXTURE SCHEDULE NOTES:
1. FAILURE TO SUBMIT PROPER LAMP AND BALLAST INFORMATION WITH LIGHT FIXTURE SUBMITTAL WILL RESULT IN AN AUTOMATIC REJECTION OF SUBMITTAL.
2. DIMMING BALLASTS SHALL BE 100% COMPATIBLE WITH DIMMING SWITCHES.
3. CONFORMANCE TO A PARTICULAR LIGHT FIXTURE PACKAGE SHALL NOT BE THE SOLE REASON FOR SUBSTITUTIONS.
4. CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND TRIM KITS PRIOR TO ORDERING FIXTURE PACKAGE.

DEMAND FACTOR TABLE

LOAD TYPES	FACTORS											NEC REFERENCE
LIGHTS	1.00											220.42
RECEPTACLES	0-10kVA	>10kVA										
	1.00	0.50										220.44
MOTORS	MAX	ALL OTHERS										
	1.25	1.00										220.50
HOSPITAL	0-50kVA	>50kVA										
	0.40	0.20										220.42 & 220.44
DIAGNOSTIC	1 PIECE OF EQUIPMENT		OVER 1 PIECE OF EQUIPMENT									
	1		1	2	3 or more							
	1.00		0.50	0.25	0.10							517.73(2)
ELEVATOR	1	2	3	4	5	6	7	8	9	10 or more		
	1.00	0.95	0.9	0.85	0.82	0.79	0.77	0.75	0.73	0.72		620.14
KITCHEN	1	2	3	4	5	6 or more						
	1.00	1.00	0.90	0.80	0.70	0.65						220.56
HEAT	1.00											220.51
MISCELLANEOUS	1.00											210.19
MISCELLANEOUS_2	1.00											

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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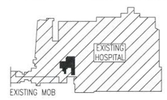
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KEY PLAN
FIRST FLOOR



COLORADO REGISTERED
BRIAN L. MUNK
2003
PROFESSIONAL ENGINEER
04/22/09

Revisions

NO.	ISSUE	DATE
1	ADDENDUM #2	04-22-09

Sheet Information

Date	03-06-2009
Job Number	142542.000
Drawn	MM
Checked	MM
Approved	MM

Title

ELECTRICAL SCHEDULES

Sheet

E-7001

Issued for Construction

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DISTRIBUTION PANEL: 1DPEQHA — EQUIPMENT

FED FROM: EQ
LOCATION: CORRIDOR 1098
MAIN BUS: 400A
MCB: N/A
VOLTAGE: 480/277
AIC: 14,000A

WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: Copper
MOUNTING: Recessed
PANEL LUGS: Main Lugs Only

NEUTRAL BUS: Yes
GROUND BUS: Yes
ISOLATED GROUND BUS: No
200% NEUTRAL: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	LOAD (VA) LTS	RCPTS	MTRS	HEAT	MISC	CIRCUIT BREAKER AMPS	POLES	REMARKS
1	H-1-1	72000				72000		125	3	
2	AHU-1-1 SF	33333			33333			60	3	50 HP
3	AHU-1-1 RF	11600			11600			30	3	10 HP
4	CRAC-1 CONDENSING UNIT	6150			6150			20	3	
5	CRAC-1	10968			10968			20	3	
6	HUMIDIFIER CONTROLS	500					500	20	1	
7	AHU CONTROLS	500					500	20	1	
8	VAV CONTROLS	500					500	20	1	
9	F/S DAMPERS	500					500	20	1	
10	PHP-1-1	500			500			20	1	
11	SPARE	--						--	3	
12	SPARE	--						--	3	
13	SPARE	--						--	3	
14	SPARE	--						--	3	
15	SPARE	--						--	3	

NOTES:

"1DPEQHA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	62.6	72.0	2.0	136.6	164.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	0.0	0.0	71.3	72.0	2.0	145.3	174.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	71.3	72.0	2.0	145.3	174.7

PANEL: CATH — CRITICAL

LOCATION: UPS 1104
MAIN BUS: 100A
MCB: N/A
VOLTAGE: 480/277
AIC: 14,000A

FED FROM: UPS
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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	CATH #1	--	50	3	A	50	3	--	CATH #3	2
3		--			B			--		4
5		--			C			--		6
7	CATH #2	--	50	3	A		3	--	S.O.	8
9		--			B			--		10
11		--			C			--		12

NOTES:
REFER TO 07/E6001 FOR ADDITIONAL PANEL INFORMATION.

"CATH" LOAD SUMMARY

	LTS	RCPTS	X-RAY	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	0.0	0.0	0.0	0.0
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	0.0	0.0	0.0	0.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.0	0.0	0.0	0.0

EXISTING PANEL: 2LSH — LIFE SAFETY

LOCATION: ELEC. 2094
MAIN BUS: 100A
MCB: N/A
VOLTAGE: 480/277
AIC: 14,000A

FED FROM: 1DPLSH
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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. CORRIDORS 2ND FL.	3036	20	1	A	20	1	470	LTG. CATH LAB	2
3	LTG. CORRIDORS 3RD FL.	2400	20	1	B	20	1	--	SPARE	4
5	SPARE	--	20	1	C	20	1	--	SPARE	6
7	LTG. CORRIDORS 1ST FL.	3200	20	1	A	20	1	--	SPARE	8
9	LTG. CORRIDORS 1ST FL.	1400	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	2700	PANEL '2LSL'	38
39	SPARE	--	20	1	B			1700	VIA XFMR	40
41	SPARE	--	20	1	C			1700	"	42

NOTES:

"2LSH" LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	10.5	0.0	1.2	4.9	16.6	20.0
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	11.0	0.0	0.4	5.0	16.4	19.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	13.8	0.0	0.4	5.0	19.2	23.0

EXISTING PANEL: 2LSL — LIFE SAFETY

LOCATION: ELEC. 2094
MAIN BUS: 100A
MCB: N/A
VOLTAGE: 208/120
AIC: 10,000A

FED FROM: 2LSH
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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	J-BOX AUTO DOOR 1ST FL.	1000	20	1	A	20	1	360	MOKA - CATH SUITE	2
3	MGAP RM'S 2097-2083	400	20	1	B	20	1	500	AUTO DOORS - CATH SUITE	4
5	MGAP RM 3060	400	20	1	C	20	1	--	SPARE	6
7	MGAP RM. 1022A	400	20	1	A	20	1	--	SPARE	8
9	J-BOX AUTO DOOR 2ND FL.	400	20	1	B	20	1	--	SPARE	10
11	J-BOX AUTO DOOR 3RD FL.	400	20	1	C	20	1	--	SPARE	12
13	3RD FLOOR FIRE ALARM NAC	400	20	1	A	20	1	--	SPARE	14
15	2ND FLOOR FIRE ALARM NAC	400	20	1	B	20	1	--	SPARE	16
17	1ST FLOOR FIRE ALARM NAC	400	20	1	C	20	1	--	SPARE	18
19	1ST FLOOR FIRE ALARM NAC	400	20	1	A	20	1	--	SPARE	20
21	FACP1	500	20	1	B	20	1	--	SPARE	22
23	FACP2	500	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:

"2LSL" LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	1.2	5.4	6.6	18.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	0.4	5.0	5.4	15.0
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.4	5.0	5.4	15.0

EXISTING DISTRIBUTION PANEL: 1DPCRH — CRITICAL

FED FROM: DPGC
LOCATION: MAIN ELEC. 1133
MAIN BUS: 600A
MCB: 500A
VOLTAGE: 480/277
AIC: 65,000A

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

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	LOAD (VA) LTS	RCPTS	MTRS	HSPTL	X-RAY	MISC	CIRCUIT BREAKER AMPS	POLES	REMARKS
1	PANEL '1CRH'	13500	2040			11460			100	3	
2	PANEL '2DPCRL' VIA XFMR	268540		22120		243076		3344	225	3	
3	PANEL '2CRH'	13442				13442			100	3	
4	PANEL '3CRH'	5500				5500			100	3	
5	PANEL '4CRH'	13226				13226			100	3	
6	PANEL '4DPCRL' VIA XFMR	136130	734	22560		112336		500	225	3	
7	PANEL '5CRH'	69496			55770	13726			100	3	
8	SPARE	--							--	3	FUTURE 6TH FLOOR
9	SPARE	--							--	3	FUTURE 7TH FLOOR
10	CATH #1	49860					49860		125	3	
11	CATH #2	49860					49860		125	3	
12	FUTURE CATH #3	49860					49860		125	3	
13	UPS	12465						12465	80	3	
14	SPACE	--							--	3	100A FRAME

NOTES:

"1DPCRH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	X-RAY	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	2.8	44.7	55.8	412.8	149.6	16.3	681.9	820.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	3.0	27.5	64.3	92.6	42.5	16.0	245.8	295.7
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	3.8	27.5	64.3	92.6	42.5	16.0	246.6	296.6

EXISTING DISTRIBUTION PANEL: 2DPEQH — EQUIPMENT

FED FROM: 1DPEQH
LOCATION: MECH. 2042
MAIN BUS: 400A
MCB: N/A
VOLTAGE: 480/277
AIC: 65,000A

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)	LOAD (VA) LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	CIRCUIT BREAKER AMPS	POLES	REMARKS
1	CRU-06-02	1329			1329				15	3	.75 HP
2	AHU-06-1	43233			43233				100	3	40 HP
3	RAF-06-1	17460			17460				40	3	15 HP
4	AHU-06-2	43233			43233				100	3	40 HP
5	RAF-06-2	11640			11640				25	3	10 HP
6	AHU-06-3	54042			54042				125	3	50 HP
7	RAF-06-3	17460			17460				40	3	15 HP
8	LEF-1-1	1332			1332				20	3	
9	S.O.	--							--	3	
10	S.O.	--							--	3	
11	S.O.	--							--	3	
12	S.O.	--							--	3	

NOTES:

"2DPEQH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	189.7	0.0	0.0	0.0	189.7	228.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	203.5	0.0	0.0	0.0	203.5	244.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	203.5	0.0	0.0	0.0	203.5	244.8

EXISTING 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	POLES	PHASE	CIRCUIT BREAKER AMPS	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
27	J-BOX PTS	500	20	1	B	20	1	500	J-BOX PTS TRANSFER	28
29	J-BOX PTS	500	20	1	C	20	1	500	J-BOX PTS TRANSFER	30
31	J-BOX PTS	500	20	1	A	20	1	500	J-BOX PTS TRANSFER	32
33	J-BOX PTS TRANSFER	500	20	1	B	20	1	500	J-BOX FIRE SM. DAM. 1ST FL.	34
35	1ST FLOOR DDC CONTROLS	500	20	1	C	20	1	--	SPARE	36
37	SPARE	--	20	1	A	20	1	--	SPARE	38
39	SPARE	--	20	1	B	20	1	750	HEAT TRACE	40
41	SPARE	--	20	1	C	20	1	--	SPARE	42

NOTES:

EXISTING PANEL: 2EQL (SECTION 2) — EQUIPMENT

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: No

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	GEF-06-3 1/4 HP	667	15	1	A	20	1	1127	GEF-06-4 1/2 HP	44
45	GEF-06-5 1/3 HP	828	15	1	B	20	1	--	SPARE	46
47	PHP-06-1 1/4 HP	667	15	1	C	15	1	667	PHP-06-2 1/4 HP	48
49	PHP-06-3 1/4 HP	667	15	1	A	20	1	500	PRE-ACTION CNTRL PANEL	50
51	DRY PIPE COMPRESSOR	1127	20	1	B	20	1	1627	PRE-ACTION COMPRESSOR	52
53	J-BOX COILING FIRE DOOR 2ND	500	20	1	C	20	1	500	J-BOX FIRE SM. DAM. 2ND FL.	54
55	J-BOX FIRE SM. DAM. 2ND FL.	500	20	1	A	20	1	500	J-BOX FIRE SM. DAM. 2ND FL.	56
57	J-BOX FIRE SM. DAM. 2ND FL.	500	20	1	B	20	1	500	J-BOX FIRE SM. DAM. 2ND FL.	58
59	J-BOX FIRE SM. DAM. 2ND FL.	500	20	1	C	20	1	500	J-BOX VAV BOXES 2ND FL	60
61	J-BOX VAV BOXES 2ND FL	500	20	1	A	20	1	500	J-BOX VAV BOXES 2ND FL	62
63	J-BOX VAV BOXES 2ND FL	500	20	1	B	20	1	500	J-BOX VAV BOXES 2ND FL	64
65	J-BOX VAV BOXES 2ND FL	500	20	1	C	20	1	--	SPARE	66
67	GEN QUICK CONNECT HEAT	500	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	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:

"2EQL" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	6.9	0.8	0.8	24.9	33.3	92.5
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	0.0	0.0	7.3	0.4	1.0	25.0	33.7	93.4
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	7.3	0.4	1.0	25.0	33.7	93.4

	1EQDPHA	1DPCRH1
	CATH	2DPEQH
	2LSH	2EQL SEC 1
	2LSL	2EQL SEC 2

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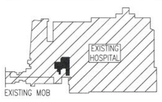
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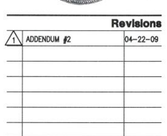
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KEY PLAN
FIRST FLOOR





Revisions

NO.	ISSUE	DATE
1	ADDENDUM #2	04-22-09

Sheet Information

Date	03-06-2009
Job Number	142542.000
Drawn	MM
Checked	MM
Approved	MM

Title

ELECTRICAL SCHEDULES

Sheet

E-7002

Issued for Construction

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2009399209
AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

ONLY HIGHLIGHTED REVISIONS
APPROVED ALL
PREVIOUS COMMENTS APPLY.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED JUL 09 2009

EXISTING PANEL: CLAB — CRITICAL

LOCATION: LAB 1097 | MAIN BUS: 225A | MCB: N/A | VOLTAGE: 208/120 | AIC: 10,000A
FED FROM: 2DPCRL | 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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LAB PLUG MOLD	540	20	1	A	20	1	500	FAX-COPIER	2
3	LAB PLUG MOLD	540	20	1	B	20	1	540	MICRO-PLUG MOLD	4
5	HALL	360	20	1	C	20	1	360	STORAGE LAB	6
7	SMOKE DAMPER	150	20	1	A	20	1	540	MICRO-PLUG MOLD	8
9	WALK-IN COMPRESSOR	750	20	2	B	20	1	360	MICRO RCPT	10
11		750			C	20	1	540	MICRO-PLUG MOLD	12
13	WALK-IN LTS/FAN	1000	20	1	A	20	1	360	MICRO RCPT	14
15	SECURITY CAMERA	250	20	1	B	20	1	360	MICRO RCPT	16
17	SECURITY CAMERA	250	20	1	C	20	1	360	MICRO OFFICE	18
19	LAB FRIDGE	500	20	1	A	20	1	540	MICRO RCPT	20
21	**MEDS/PICK**	**720**	**20**	**1**	B	20	1	1200	EX. LOAD (VERIFY AND RENAME)	22
23	**UCR/MEDS**	**900**	**20**	**1**	C	20	1	1200	EX. LOAD (VERIFY AND RENAME)	24
25	**R-NURSE STATION**	**540**	**20**	**1**	A	20	1	360	MICRO RCPT	26
27	**R-NURSE STATION**	**540**	**20**	**1**	B	20	1	540	MICRO-PLUG MOLD	28
29	**R-CORRIDOR**	**360**	**20**	**1**	C	20	1	360	MICRO RCPT	30
31	**R- ALCOVE**	**720**	**20**	**1**	A	**20**	**1**	**720**	**R-CATH CONTROL**	**32**
33	**R- RECOVER**	**1080**	**20**	**1**	B	**20**	**1**	**720**	**R-CATH CONTROL**	**34**
35	**R-RECOVER**	**1080**	**20**	**1**	C	20	1	--	SPARE	36
37	**R-RECOVER**	**1080**	**20**	**1**	A	20	1	200	J-BOX PTS RM. 1102	38
39	**R-RECOVER**	**1080**	**20**	**1**	B	**20**	**1**	**600**	**CATH #1 S.T./DS/W.L.**	**40**
41	**R-RECOVER**	**1080**	**20**	**1**	C	**20**	**1**	**600**	**CATH #2 S.T./DS/W.L.**	**42**

NOTES:

EXISTING PANEL: CLAB (SECTION 2) — CRITICAL

LOCATION: LAB 1097 | 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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
43	SAFETY HOOD "M1" RM. 1102	1920	20	1	A	**20**	**1**	**720**	**R- CATH #1**	**44**
45	INCUBATOR "M2" RM. 1102	840	20	1	B	**20**	**1**	**720**	**R- CATH #2**	**46**
47	BACTEC 9240 "M3" RM. 1102	1068	20	1	C	20	1	1800	MEDIA REFG. "M10" RM. 1102	48
49	BACTEC 9240 "M4" RM. 1102	1068	20	1	A	**20**	**1**	**720**	**R- CATH #1**	**50**
51	MICROSCAN "M5" RM. 1102	1200	20	1	B	**20**	**1**	**720**	**R- CATH #2**	**52**
53	SPARE		20	1	C	**20**	**1**	**360**	**R- CATH #1**	**54**
55	REFRIG/FREZ "M7" RM. 1102	1200	20	1	A	**20**	**1**	**360**	**R- CATH #2**	**56**
57	**CATH #1 BOOM**	**720**	**20**	**1**	B	**20**	**1**	**720**	**R - CATH CONTROL**	**58**
59	**CATH#2 BOOM**	**720**	**20**	**1**	C	**20**	**1**	**540**	**R - CATH CONTROL**	**60**
61	SPARE	--	20	1	A	**20**	**1**	**360**	**R - UPS**	**62**
63	RCPT'S RM. 1102	540	20	1	B	**20**	**1**	**360**	**R - UPS**	**64**
65	RCPT'S RM. 1102	540	20	1	C	**20**	**1**	**360**	**R - UPS**	**66**
67	**R - CATH CONTROL**	**720**	**20**	**1**	A	20	1	--	SPARE	68
69	**R - CATH CONTROL**	**360**	**20**	**1**	B	20	1	--	SPARE	70
71	**R- CATH #1**	**640**	**20**	**1**	C	20	1	--	SPARE	72
73	**R- CATH #2**	**640**	**20**	**1**	A	20	1	--	SPARE	74
75	**R - CATH #1**	**--**	**20**	**1**	B	20	1	--	SPARE	76
77	**R - CATH #2**	**540**	**20**	**1**	C	20	1	--	SPARE	78
79	**R- CATH #1**	**360**	**20**	**1**	A	20	1	--	SPARE	80
81	**R - CATH #2**	**360**	**20**	**1**	B	20	1	--	SPARE	82
83	SPARE	--	20	1	C	20	1	--	SPARE	84

NOTES:

EXISTING PANEL: CLAB (SECTION 3) — CRITICAL

LOCATION: LAB 1097 | 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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
85	SPARE	--	20	1	A	20	1	--	SPARE	86
87	SPARE	--	20	1	B	20	1	--	SPARE	88
89	SPARE	--	20	1	C	20	1	--	SPARE	90
91	SPARE	--	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	2	--	SPARE	106
107	SPARE	--	20	1	C			--	--	108
109	SPARE	--	20	1	A	20	2	--	SPARE	110
111	SPARE	--	20	1	B			--	--	112
113	SPARE	--	20	1	C	20	2	--	SPARE	114
115	SPARE	--	20	1	A			--	--	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:

"CLAB" LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.4	20.8	15.7	9.2	46.0	127.8
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	15.5	6.4	9.0	30.9	85.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	15.5	6.4	9.0	30.9	85.8

EXISTING PANEL: 1CRH — CRITICAL

LOCATION: ELEC. CLOSET 1090A | MAIN BUS: 100A | MCB: N/A | VOLTAGE: 480/277 | AIC: 10,000A
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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. RM'S 1133A-1138	2400	20	1	A	20	1	1500	LTG. RM'S 1039-1055	2
3	LTG. RM'S 1005-1009	1060	20	1	B	20	1	3500	LTG. LAB RM. 1097	4
5	LTG. RM'S 1067-1090A	2400	20	1	C	20	1	600	LTG. RM'S 1018-1022	6
7	**LTG. CATH SUITE**	**3320**	**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:

"1CRH" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	3.3	0.0	0.0	11.5	0.0	0.0	14.8	17.8
DEMAND FACTOR	SEE DEMAND FACTOR TABLE							
TOTAL DEMAND LOAD	3.0	0.0	0.0	4.4	0.0	0.0	7.4	8.9
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00			
TOTAL DESIGN LOAD	3.8	0.0	0.0	4.4	0.0	0.0	8.2	9.8

EXISTING PANEL: 1NHA — NORMAL

LOCATION: CORR. 1062 | MAIN BUS: 100A | MCB: N/A | VOLTAGE: 480/277 | AIC: 10,000A
FED FROM: 1DPNH | WIRES: 4W + G | ENCLOSURE: NEMA 1 | BUS TYPE: Copper | MOUNTING: Recessed | 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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	LTG. LAB RM. 1097	1700	20	1	A	20	1	800	LTG. RM'S 1018-1022	2
3	LTG. LAB RM. 1097	3800	20	1	B	**20**	**1**	**2850**	**LTG -- CATH SUITE**	**4**
5	LTG. RM'S 1135-1146A	--	20	1	C	20	1	--	SPARE	6
7	AIR COMPRESSOR	2106	15	3	A	20	1	--	SPARE	8
9	--	2106			B	20	1	--	SPARE	10
11	--	2106			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:

"1NHA" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	2.9	0.0	6.3	6.3	0.0	15.5	18.6
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	3.0	0.0	7.5	2.4	0.0	12.9	15.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	3.8	0.0	7.5	2.4	0.0	13.7	16.4

EXISTING PANEL: NLAB — NORMAL

LOCATION: LAB 1097 | MAIN BUS: 100A | 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	POLES	PHASE	CIRCUIT BREAKER AMPS	POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO
1	MECH. RM RCPTS	540	20	1	A	20	1	360	LAB RCPT	2
3	MECH. RM PUMPS	500	20	1	B	20	1	540	HALL RCPT	4
5	MECH RM PUMPS	500	20	1	C	20	1	540	HALL RCPT	6
7	CHEM FUME HOOD	750	20	1	A	20	1	540	LAB PLUGMOLD	8
9	HALL RCPTS	540	20	1	B	20	1	540	LAB PLUGMOLD	10
11	**R-EQUIP/SOILED**	**1260**	**20**	**1**	C	**20**	**1**	**900**	**UCR/NURSE STATION**	**12**
13	**R-TOILET/UTILITY**	**1110**	**20**	**1**	A	**20**	**1**	**1200**	**ICE MAKER**	**14**
15	**R-UPS/EQUIPMENT**	**1440**	**20**	**1**	B	**20**	**1**	**1080**	**R - CATH CONTROL**	**16**
17	**FRIDGE**	**900**	**20**	**1**	C	**20**	**1**	**720**	**CATH #1 BOOM**	**18**
19	**MICROWAVE**	**1200**	**20**	**1**	A	**20**	**1**	**720**	**CATH #2 BOOM**	**20**
21	**COFFEE**	**1200**	**20**	**1**	B	**20**	**1**	**900**	**R - CATH CONTROL**	**22**
23	**R-CORRIDOR**	**720**	**20**	**1**	C	**20**	**1**	**720**	**R - CATH #1**	**24**
25	**R-NURSE STATION/MEDS**	**900**	**20**	**1**	A	**20**	**1**	**540**	**R - CATH ROOF**	**26**
27	**R -RECOVERY**	**540**	**20**	**1**	B	**20**	**1**	**1330**	**GEF-1-(1,2)**	**28**
29	**R- RECOVERY**	**1440**	**20**	**1**	C	**20**	**1**	**720**	**R - CATH #2**	**30**
31	**R- RECOVERY**	**1080**	**20**	**1**	A	20	1	--	SPARE	32
33	**R-NURSE STATION**	**720**	**20**	**1**	B	20	1	--	SPARE	34
35	RCPT'S. RM. 1103	360	20	1	C	20	1	--	SPARE	36
37	* PANEL 'LPQA'	4693	**60	3	A	20	1	--	SPARE	38
39	--	4693			B	20	1	--	SPARE	40
41	--	4693			C	20	1	--	SPARE	42

NOTES:

"NLAB" LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	5.6	1.3	13.0	21.2	41.1	114.2
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	0.0	6.0	1.3	5.2	21.0	33.4	92.8
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	6.0	1.3	5.2	21.0	33.4	92.8

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS
ONLY HIGHLIGHTED REVISIONS
APPROVED ALL
PREVIOUS COMMENTS APPLY.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE: APPROVED JUL 09 2009

2009399209

	CLAB SEC. 1	1CRH
	CLAB SEC. 2	1NHA
	CLAB SEC. 3	NLAB

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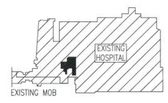
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KEY PLAN
FIRST FLOOR



COLORADO REGISTERED
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PROFESSIONAL ENGINEER
04/22/09

Revisions

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1	ADDENDUM #2	04-22-09

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Title

ELECTRICAL SCHEDULES

Sheet

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