THE MEDICAL CENTER OF AURORA

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St, Aurora, CO 80012

RSN: *1197632*
Permit #: *17-1275373-LT*

City of Aurora Building Division
Project: ***TCMA CATH LAB REVISIONS***
Address: ***1501 S POTOMAC ST***
Occupancy Group: ***UBC - I-2***
Construction Type: ***IBC-IA-SPK***
RSN: ***1197632***
Permit: ***17-1275373-LT***

ISSUE DATE: 08/19/16
PROJECT #: 16-003

FOR CONSTRUCTION

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Only highlighted or clouded revisions are approved on this review. All previous comments apply.

ASI-03 ONLY

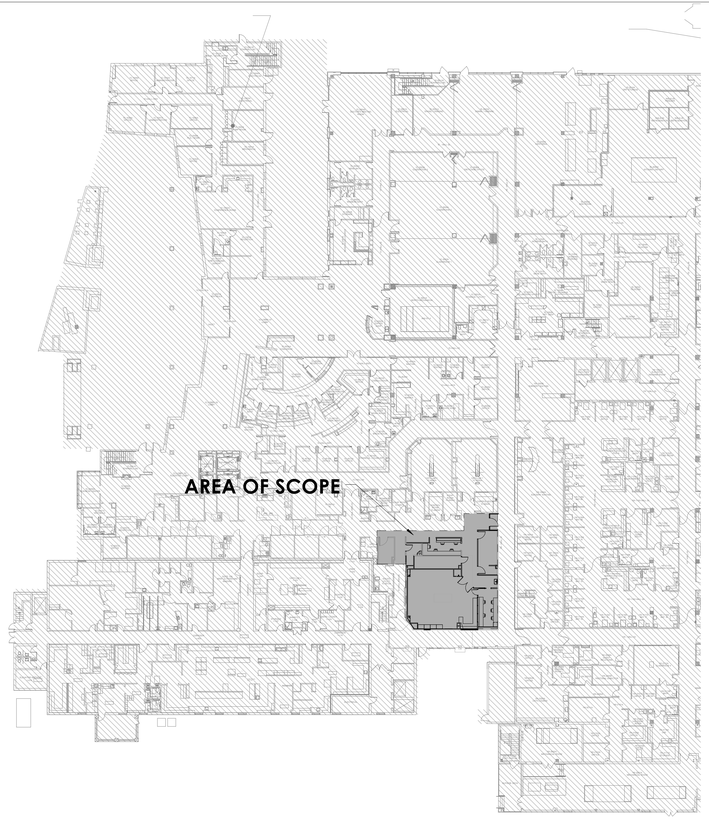
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* VENDOR DRAWINGS WILL NOT BE STAMPED BY A LICENSED ENGINEER

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Apr 11, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

KEY PLAN



GENERAL PROJECT NOTES

1. CONTRACTOR IS RESPONSIBLE FOR **COMPLETE** SET OF ISSUED CONTRACT DOCUMENTS.
2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS, AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OR OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISHED FLOORING PRODUCT, OFTEN NOTED BY AFF (ABOVE FINISH FLOOR) UNLESS OTHERWISE NOTED.
6. COORDINATE EXACT SIZE AND PLACEMENT OF EQUIPMENT BASE AND HOUSEKEEPING PADS WITH EQUIPMENT TO BE PROVIDED.
7. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
8. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A 1/4" VARIANCE IN A 10'-0" RADIUS.
9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
10. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
11. OPENINGS IN A RATED WALL, FLOOR, CEILING, AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEM OR PROTECTED WITH A FIRE RATED CHASE.
12. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
13. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
14. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
15. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT AND LABLED.
16. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS
17. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
18. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
19. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/OR BEAMS. IF NO JOIST OR BEAM, PROVIDE A STEEL STRIP.

ALTERNATES

1 DEDUCTIVE ALTERNATE: PROVIDE SOLID CORE WOOD VENEER DOORS IN LIEU OF ACROVYN DOORS WHERE ACROVYN DOORS ARE SCHEDULED. WOOD VENEER TO BE QUARTER CUT, CHERRY, SATIN FINISH, STAIN COLOR TO MATCH EXISTING DOORS IN THE AREA WHICH ARE A COLOR MATCH TO WILSON ART 7935-07 SHAKER CHERRY.

2 ADDITIVE ALTERNATE: REPLACE ADDITIONAL FLOORING IN THE CATH LAB DEPARTMENT THROUGHOUT INDICATED ON I.201.

DRAWING NUMBER KEY

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

XX/A.XXX
- NUMBER OF PLAN, DETAIL, ETC. ON SHEET
- DRAWING SERIES

PROJECT DATA

- **PROJECT INFORMATION**

RENOVATION WORK: RENOVATION AND DEPARTMENTAL EXPANSION WITHIN THE EXISTING SQUARE FOOTAGE OF THE FACILITY. REMOVAL OF EXISTING RECOVERY AREA FOLLOWING RELOCATION BY OTHER PROJECT. CONSTRUCTION OF NEW CATHETERIZATION LAB AND SUPPORT SPACES INCLUDING SUPPLY ROOM, COMPUTER ROOM, CHARTING AND CONTROL. SCOPE INCLUDES REMOVAL OF EXISTING AIR HANDLING UNITS AND REPLACEMENT WITH NEW SYSTEM TO SERVE RENOVATED SPACE. SQUARE FOOTAGE OF PROCEDURE SPACE AND RENOVATION AREA IS 2850 SQUARE FEET.

- **ADOPTED CODES / LAWS**

CITY OF AURORA:
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FUEL GAS CODE
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRICAL CODE

STATE OF COLORADO:
2012 NFPA 101 - LIFE SAFETY CODE
2009 COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT - HOSPITAL LICENSING RULES

FEDERAL:
2010 AMERICANS WITH DISABILITIES ACT GUIDELINES
2009 ICC/ANSI A117.1 ACCESSIBLE USEABLE BUILDINGS AND FACILITIES

- **OCCUPANCY CLASSIFICATION:**
2015 IBC - GROUP I-2 (SECTION 308.4.1.2)
CMS - 2012 NFPA 101 - NEW HEALTHCARE OCCUPANCY (CHAPTER 18)
STATE OF COLORADO - 2012 NFPA 101 - NEW HEALTHCARE OCCUPANCY CHAPTER 18

- **PRINCIPAL OCCUPANCY TYPE:** HEALTHCARE

- **CONSTRUCTION TYPE:**

EXISTING: SBC - TYPE 1A, UNRESTRAINED, FULLY SPRINKLERED

NEW: 2015 IBC - TYPE 1A, FULLY SPRINKLERED

- **ALLOWABLE HEIGHT AND FLOOR AREAS:** (IBC TABLE 503)

- **FIRE RESISTANCE:** (FOR TYPE 1A CONSTRUCTION)

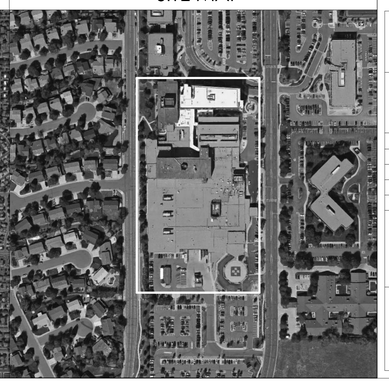
BUILDING ELEMENT	FIRE RATING	U.L. ASSEMBLY
STRUCTURAL FRAME (INCLUDING COLUMNS AND GIRDERS)		
SUPPORTING ROOF ONLY	2-HR	COLUMNS X-772 (W-BEAM) COLUMNS X-771 (TUBES) GIRDERS S-735 (W/ P936) GIRDERS S-734 (W/ P732)
SUPPORTING ONE OR MORE FLOORS	3-HR	COLUMNS X-771 (TUBE) COLUMNS X-772 (W-BEAM) GIRDERS N-782
BEARING WALLS		
EXTERIOR	3-HR	NA
INTERIOR (SUPPORTING ROOF ONLY)	2-HR	NA
NON-BEARING WALLS		
EXTERIOR	0-HR	
INTERIOR	0-HR	
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	2-HR	D-925 (COMPOSITE DECK) (USING NORMAL BEAMS AND JOISTS WEIGHT CONCRETE)
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS (SECONDARY MEMBERS))	1-HR	U-732 (FULLY ADHERED SINGLE PLY TPO ROOFING MEMBRANE ON 3" RIGID INSULATION BOARD MECHANICALLY FASTENED TO STEEL ROOF DECK)

NOTES:
1. ALL FIRE RESISTIVE DESIGN TO BE CONSIDERED THERMALLY RESTRAINED.
2. ALL BEAM AND COLUMN FIRE PROOFING TO BE ADJUSTED USING W/ D RATIO

VICINITY MAP



SITE MAP



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No.	Description	Date
1	ASI 01	10/10/16
2	ASI 02	10/18/16
3	ASI 03	01/09/17

STATE OF COLORADO
JOHN MENNO MAY
401729
LICENSED ARCHITECT
01/09/17

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	FOR CONSTRUCTION
Date	08/19/16
Project Number	16-003
Drawn by	KL
Checked by	JMN

Sheet Title:
COVER & DRAWING INDEX

Sheet Number
G.101

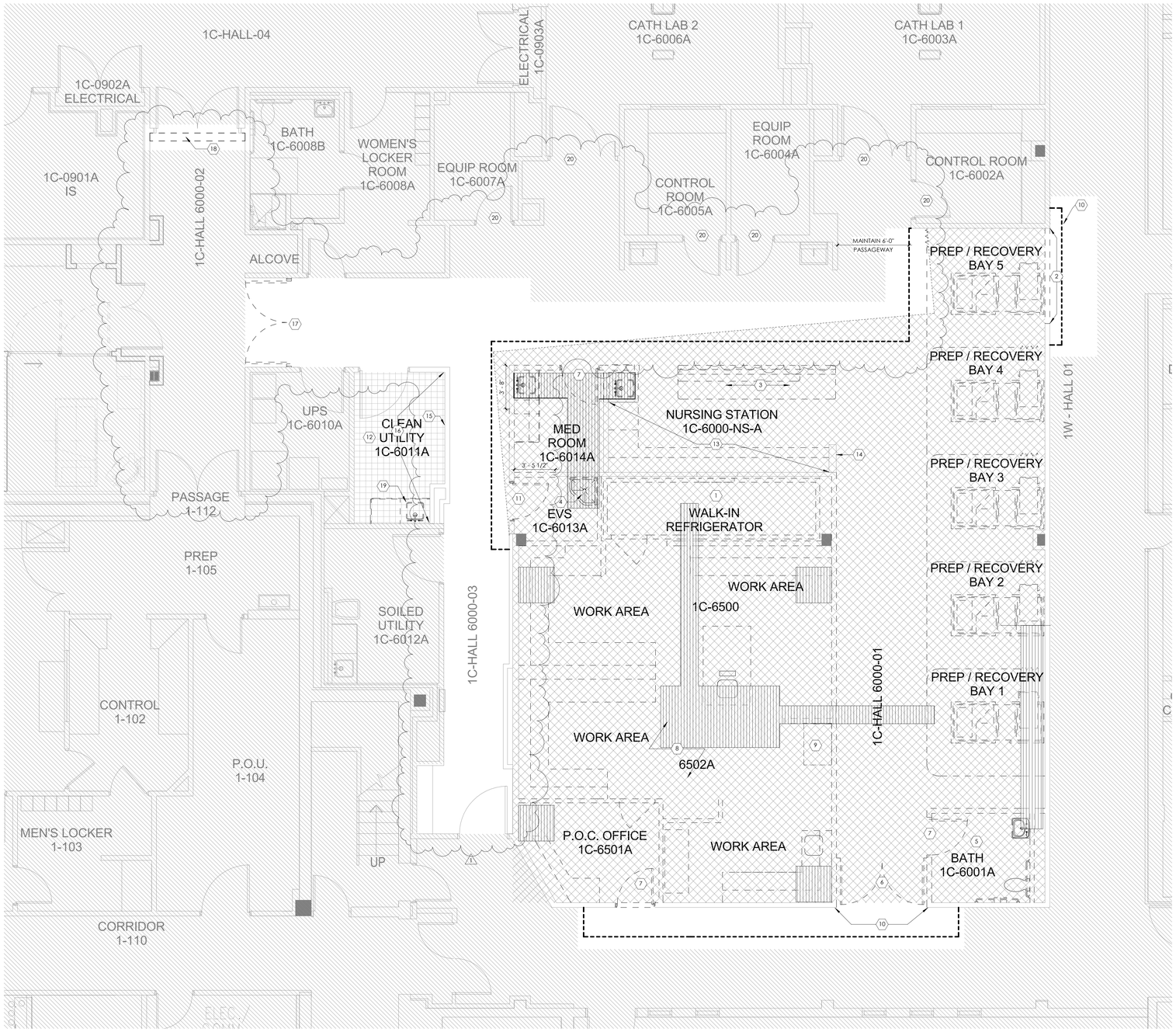
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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Apr 11, 2017*
2015 INTERNATIONAL CODES & 2014 NEC



01 - DEMOLITION PLAN - LEVEL 01 - CATH LAB
1/4" = 1'-0"

DEMOLITION GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR INTERIM LIFE SAFETY MEASURES.
2. CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED BY PHASING TO MINIMIZE THE SPREAD OF DUST AND NOISE.
3. THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THEM AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
4. CEILING TILE, CEILING GRID SYSTEM OR GYP. CEILING TO BE DEMOLISHED WITHIN DEMOLITION SCOPE OF WORK UNLESS OTHERWISE NOTED. SALVAGE LIGHTING AND RETURN TO FACILITY. REMOVE ALL EXISTING CEILING DEVICES IN PREPARATION FOR NEW.
5. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL INCLUDES FINISHES AND MECHANICAL PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN EXISTING FLOORS OR WALLS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS. PATCH ADJOINING WALLS.
6. WHERE NEW FINISHES ARE TO BE INSTALLED ON EXISTING SURFACES, REMOVE THE EXISTING FINISH AND PREPARE SURFACE TO RECEIVE THE NEW FINISH.
7. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
8. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
9. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
10. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.
11. BRACE ALL EXISTING STRUCTURES OR STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION.
12. DO NOT CUT ANY STRUCTURAL WORK WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
13. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
14. REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERING, ETC.

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- SUGGESTED TEMPORARY CONTAINMENT WALL.
- EXISTING FLOOR SLAB TO BE REMOVED WITHIN AREA INDICATED. COORDINATE EXACT EXTENTS WITH STRUCTURAL AND PLUMBING DRAWINGS.
- REMOVE ALL FLOORING, LIGHTS, GRILLS REGISTERS AND DIFFUSERS, CEILING GRID, AND ASSOCIATED CEILING SYSTEMS FROM THIS AREA. MAINTAIN DUCTWORK TO VAV BOXES, BUT REMOVE RUN OUTS AND PREPARE FOR FUTURE WORK. REFER ALSO TO MPE DRAWINGS.
- EXISTING FLOOR AND WALL FINISHES ONLY TO BE REMOVED WITHIN AREA INDICATED.
- AREA OUT OF SCOPE

DEMOLITION KEYNOTES

1. WALK IN REFRIGERATION UNIT. REMOVE ALL COMPONENTS. PREPARE RECESSED FLOOR FOR INFILL. REMOVE COMPRESSOR FROM ROOF AND DEMOLISH CONDUITS AND COOLANT LINES BACK TO SOURCE.
2. REMOVE TWO HOUR CONSTRUCTION INTO RATED EXIT PASSAGE. PROVIDE TEMPORARY 1LSM RATED WALL IN CORRIDOR DURING CONSTRUCTION.
3. REMOVE EXISTING ISLAND NURSE STATION FOR REFURBISHING.
4. SALVAGE ALL FIXTURES AND ACCESSORIES FOR REUSE.
5. REMOVE PLUMBING SUPPY AND VENT LINES TO ABOVE CEILING AND BELOW SLAB.
6. SALVAGE EXISTING 90 MINUTE RATED DOORS AND AUTOMATIC OPENER AND INVENTORY TO FACILITY.
7. SALVAGE EXISTING DOOR AND INVENTORY TO FACILITY.
8. REMOVE ALL CEILING SYSTEMS, LIGHTS AND MECHANICAL DEVICES AS WELL AS ALL DUCTWORK, CONDUIT, SANITARY AND VENT, EXHAUST DUCTWORK, AND DOMESTIC SUPPLY LINES PROVIDING SERVICE TO THIS SPACE WITHIN THE SCOPE OF THIS SPACE.
9. PNEUMATIC TUBE UNIT REMOVED AND RELOCATED DURING PREP RECOVERY SCOPE.
10. SUGGESTED CONSTRUCTION ENTRY POINT
11. SALVAGE DOOR AND HARDWARE FOR REUSE AT NEW JANITOR DOOR LOCATION.
12. REMOVE EXISTING FLOORING AND PREPARE FOR NEW. EXISTING CEILING TO REMAIN, PROTECT DURING DEMOLITION AND CONSTRUCTION.
13. REMOVE GYPSUM BOARD FROM WALL. RETAIN FRAMING FOR NEW SCOPE.
14. REMOVE EXISTING ZONE ALARM PANELS AND RELOCATE PER PLUMBING TO RECOVERY NURSE STATION.
15. SALVAGE WALL PHONE AND TURN OVER TO FACILITY FOR INSTALLATION IN NEW LOCATION.
16. REMOVE GYPSUM BOARD ONLY UP TO 8' AFF FOR THE INSTALLATION OF IN WALL BACKING.
17. SALVAGE EXISTING DOOR AND INVENTORY TO FACILITY. DEMOLISH DOOR PARTITION UP TO 6" BELOW CEILING AND PREPARE FOR NEW GYPSUM HEADER PER A.221.
18. CAREFULLY REMOVE EXISTING SHEET VINYL IN A RECTANGLE 8' WIDE BY THE WIDTH OF THE CORRIDOR. PREPARE FOR NEW SHEET VINYL PRODUCT.
19. REMOVE CASEWORK AND PLUMBING FIXTURE. CAP PLUMBING ABOVE CEILING AND IN WALL. RE: PLUMBING DRAWINGS.
20. ACCESS TO ROOMS MUST BE MAINTAINED DURING ALL BUSINESS HOURS.

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No.	Description	Date
1	ASI 03	01/09/17

STATE OF COLORADO
JOHN MENNO MAPP
401729
LICENSED ARCHITECT
01/09/17

TMCA CATH LAB HYBRID LAB RENOVATION

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Issue	FOR CONSTRUCTION
Date	08/19/16
Project Number	16-003
Drawn by	KL
Checked by	JMN

Sheet Title:
LEVEL 01 - DEMOLITION PLAN

Sheet Number
D.201

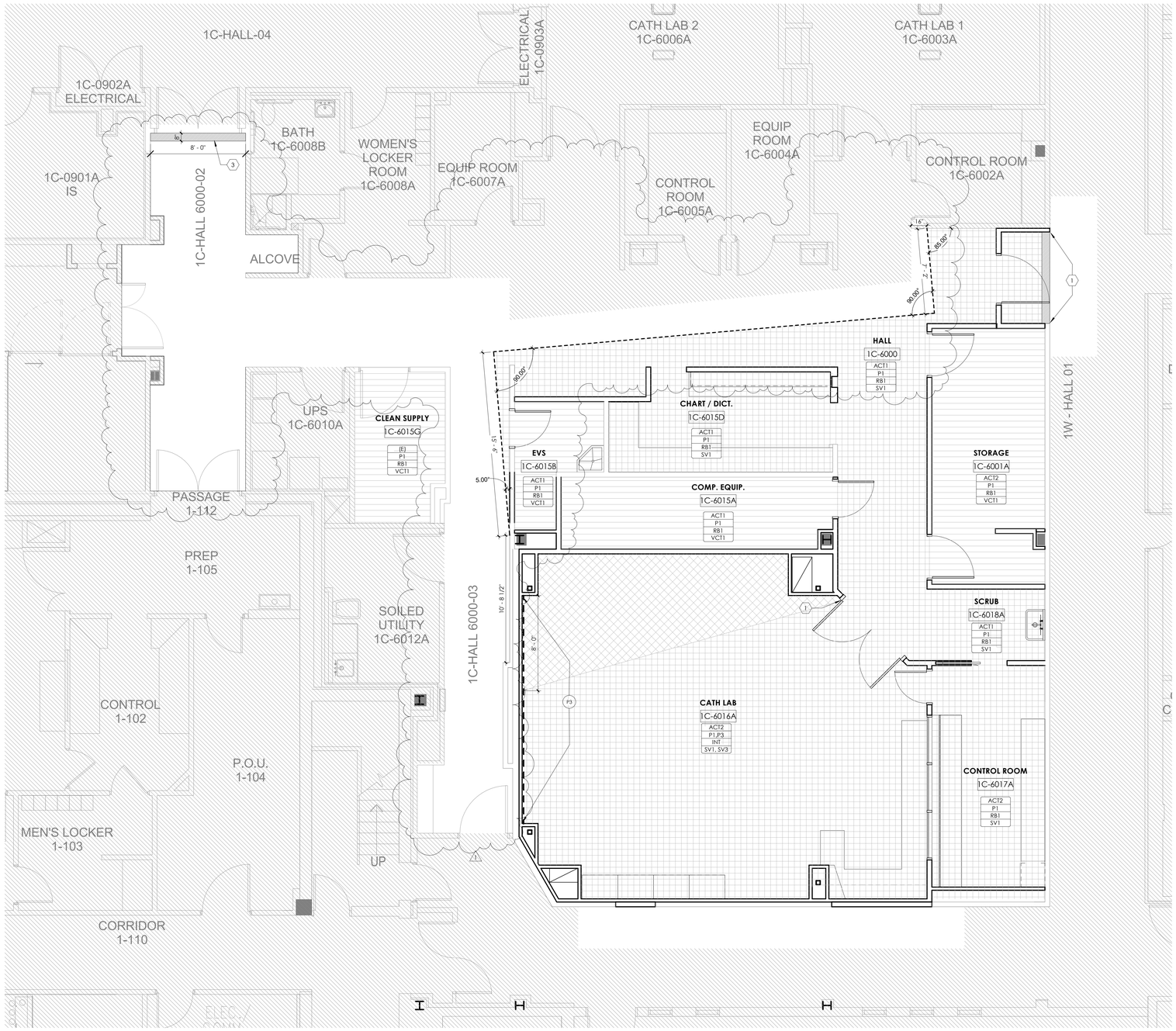
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2015 INTERNATIONAL CODES & 2014 NEC



01 - FINISH PLAN - MEDICAL CENTER OF AURORA - LEVEL 01 - CATH LAB
1/4" = 1'-0"

FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH LEGEND I.101 FOR FINISH MANUFACTURER AND COLOR INFORMATION.
2. REFER TO A.531 SERIES FOR FLOOR TRANSITION DETAILS.
3. REFER TO A.220 SERIES REFLECTED CEILING PLANS FOR LOCATION OF CEILING FINISHES AND CEILING HEIGHTS.

FINISH PLAN LEGEND

ROOM FINISH TAG (REFERENCE I.101 SHEET)

ACT	CEILING FINISH
P	WALL FINISH
RB	WALL BASE FINISH
SV	FLOOR FINISH

* DENOTES MULTIPLE FINISHES, PLEASE REFER TO ENLARGED PLANS, DETAILS AND/OR ELEVATIONS FOR MORE INFORMATION.

(1) KEYNOTE

NOT IN SCOPE OF WORK

(P4) PAINT ACCENT

CPT FINISH TAG

FINISH PATTERN LEGEND

FLOOR FINISH

SV1

SV3

SV4

VCT1

FLOOR REPLACEMENT TO OCCUR AFTER CATH LAB HOURS

OUT OF SCOPE HATCH

FINISH PATTERN LEGEND

(1) ALIGN FLOORING INTERSECTION WITH FACE OF FINISH WALL.

(2) BEGIN ACCENT BAND AT INSIDE CORNER OF DOOR FRAME.

(3) 8" WIDE STRIP ACCENT FLOORING, SV4.

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Structural Consultants Inc
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No.	Description	Date
1	ASI 03	01/09/17

STATE OF COLORADO
JOHN MENNO MAY
401729
LICENSED ARCHITECT
01/09/17

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	FOR CONSTRUCTION
Date	08/19/16
Project Number	16-003
Drawn by	Author
Checked by	Checker

Sheet Title:
FINISH PLANS

Sheet Number
I.201

CONTRACT & SPECIFICATIONS DOCUMENTS

1/11/17 8:15:08 PM

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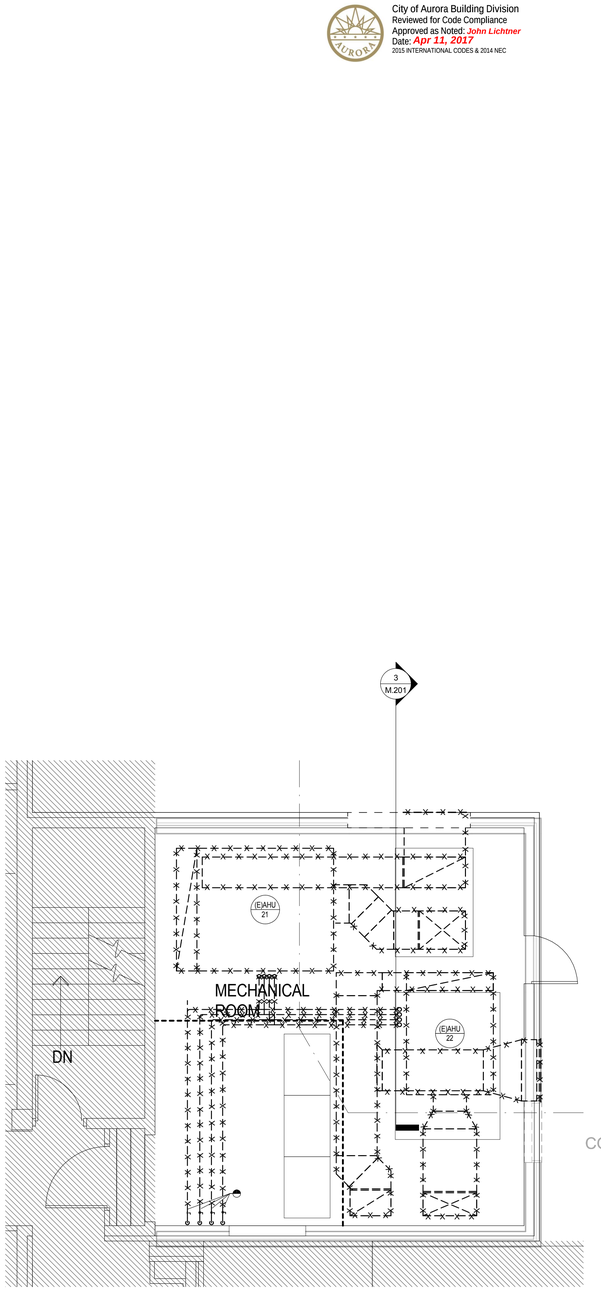
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Apr 11, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

GENERAL NOTES:

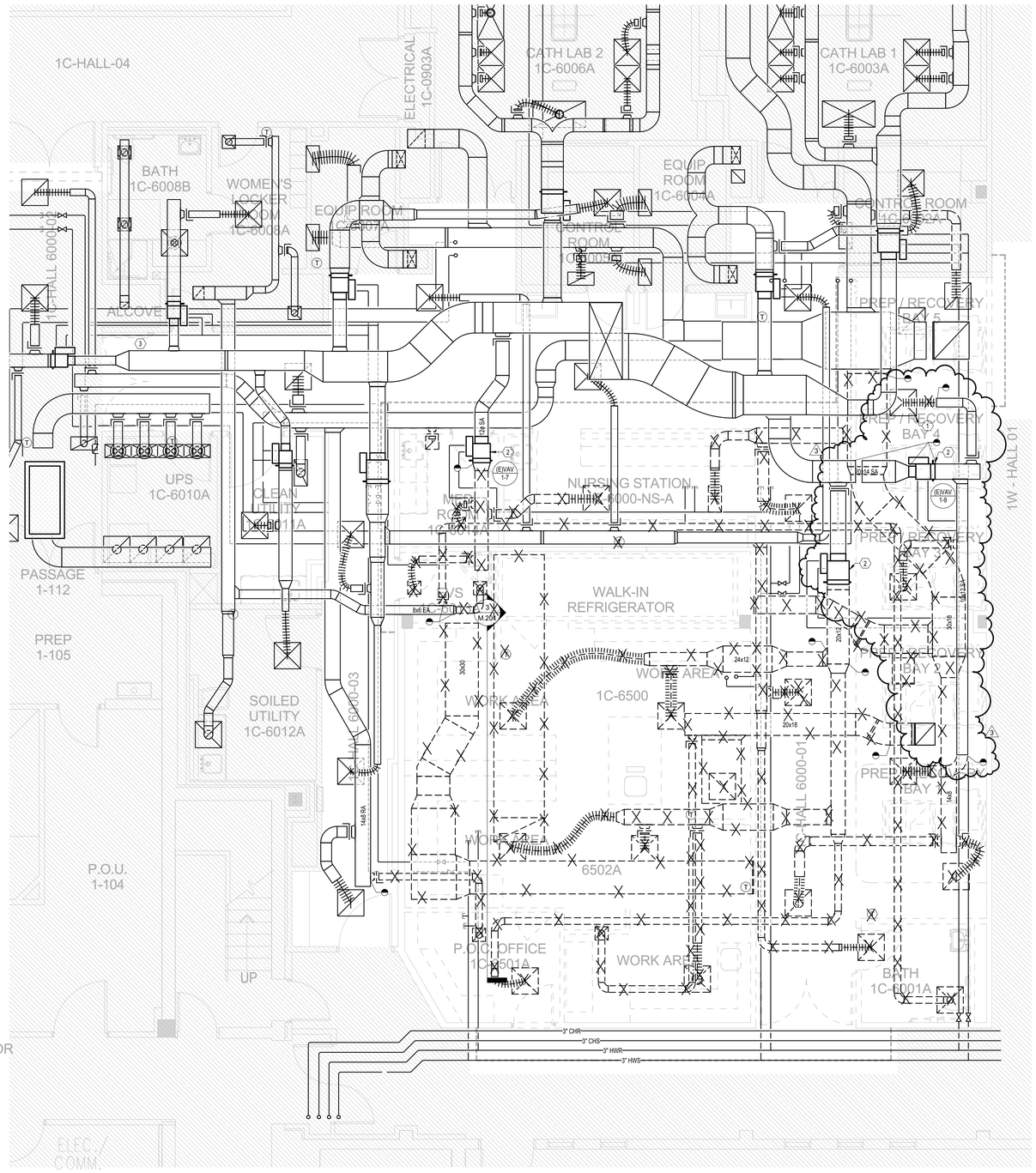
A. REFER TO SHEET M.001 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.

LEGEND NOTES:

1 EXISTING SUPPLY AIR DIFFUSER TO BE RELOCATED. SEE SHEET M.201 FOR DETAILS.
2 EXISTING VAV TO BE USED IN NEW CONSTRUCTION. SEE SHEET M.201 FOR DETAILS.
3 EXISTING DOORS TO BE DEMOLISHED. REMOVE EXISTING FIRE DAMPERS. PATCH, SEAL, AND INSULATE EXISTING DUCTWORK.

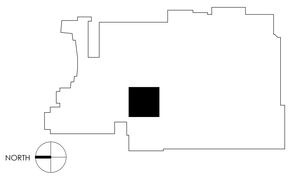


2 LEVEL 02 PENTHOUSE - MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



1 LEVEL 01 CATH LAB - HVAC DEMOLITION PLAN
1/4" = 1'-0"

KEY PLAN



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No.	Description	Date
3	ASI 03	01/09/2017

COLORADO REGISTERED PROFESSIONAL ENGINEER
WILLIAM SCHMIDT
47964
8/14/16
PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	BS
Checked by	WS

Sheet Title:
FLOOR PLAN - MECHANICAL DEMOLITION

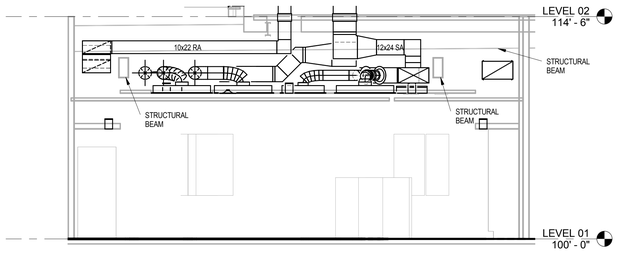
Sheet Number
MD.201

CONTRACT & PROPERTY OF PATH21 ARCHITECTURE

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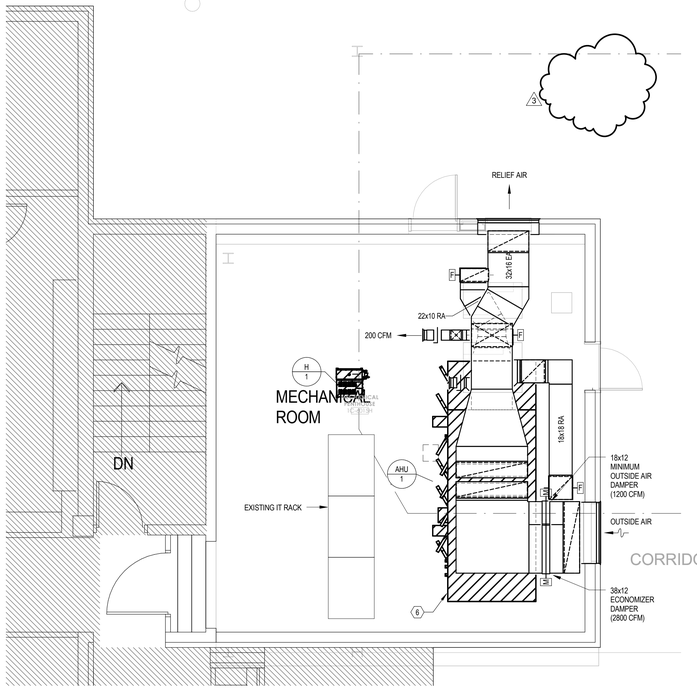
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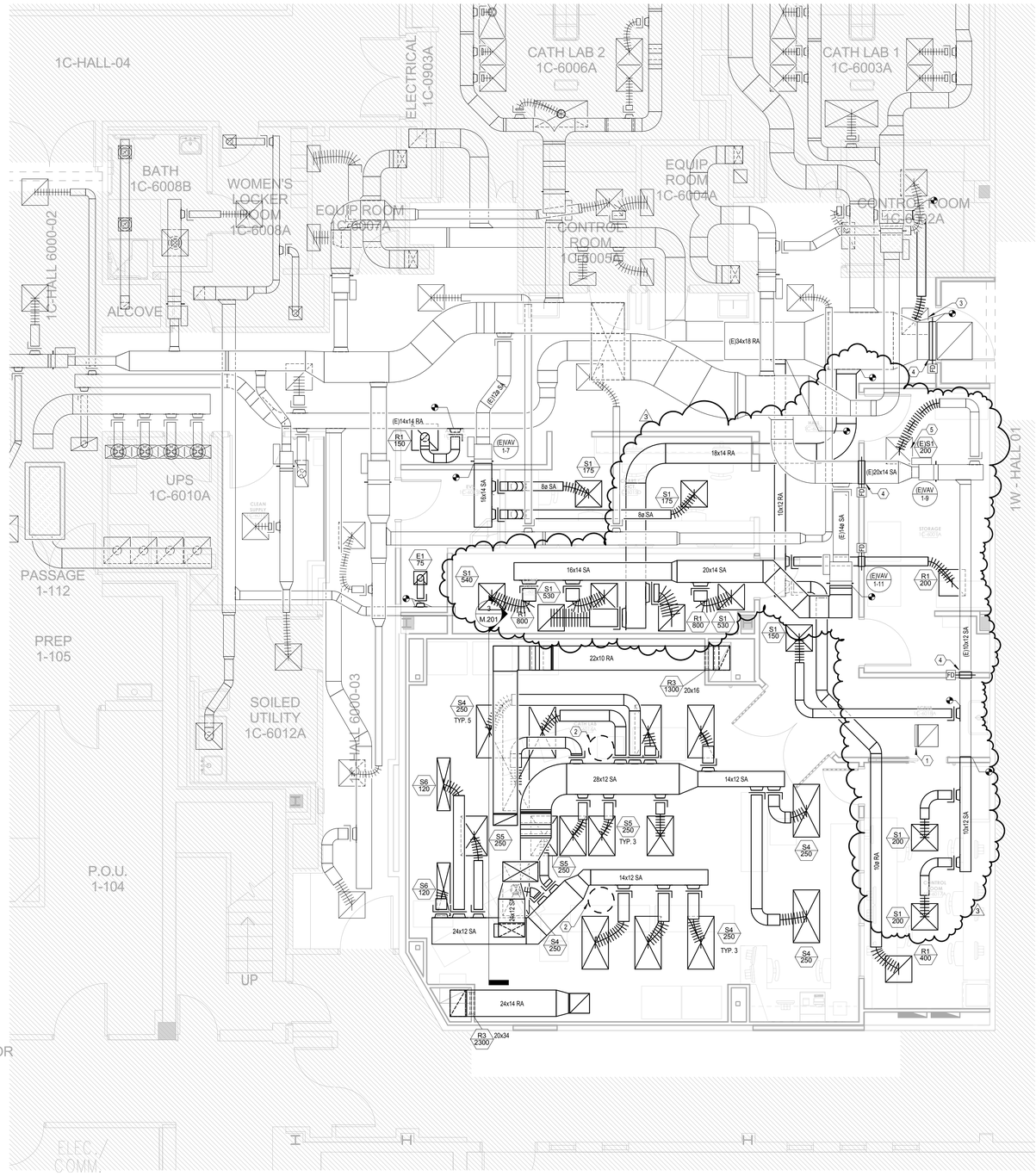


3 Section 13
1/4" = 1'-0"

City of Aurora Building Division
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Approved as Noted: *John Lichtner*
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2 LEVEL 02 PENTHOUSE - HVAC PLAN
1/4" = 1'-0"



1 LEVEL 01 CATH LAB - HVAC PLAN
1/4" = 1'-0"

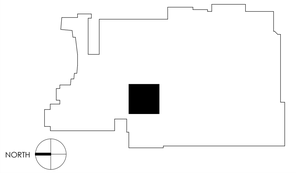
GENERAL NOTES:

A. REFER TO SHEET M.001 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.

LEGEND NOTES:

1 EXISTING EXHAUST DUCTWORK. CONTRACTOR TO CAP AND SEAL. SEE SHEET M0.201 FOR DEMOLITION DETAILS.
2 OUTLINE OF BOOM SUPPORTS. SEE ARCHITECTURAL PLANS.
3 RELOCATED RETURN AIR DIFFUSER. SEE SHEET M0.201 FOR DETAILS.
4 CONTRACTOR TO INSTALL FIRE DAMPER ON EXISTING DUCTWORK.
5 RELOCATED EXISTING SUPPLY AIR DIFFUSER. SEE SHEET M0.201 FOR DETAILS. CONTRACTOR TO COORDINATE LOCATION WITH ARCHITECTURAL RCP.
6 AIR HANDLER IS TO BE SET ON STRUCTURAL FRAMING APPROXIMATELY 24" ABOVE THE FLOOR. FRAMING DESIGN SHALL BE BY STRUCTURAL SUB CONTRACTOR. AIR UNIT CONSTRUCTION SHALL BE COORDINATED WITH DELEGATED DESIGN SUB CONTRACTOR WITH INTERMEDIATE SUPPORTS PROVIDED AS REQUIRED DURING THE COORDINATION PROCESS.

KEY PLAN



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No.	Description	Date
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COLORADO LICENSED MECHANICAL ENGINEER 47964 8/14/16 PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
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Checked by	WS

Sheet Title:
FLOOR PLAN - HVAC

Sheet Number
M.201

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CONTRACT & SPECIFICATIONS CONFIDENTIAL

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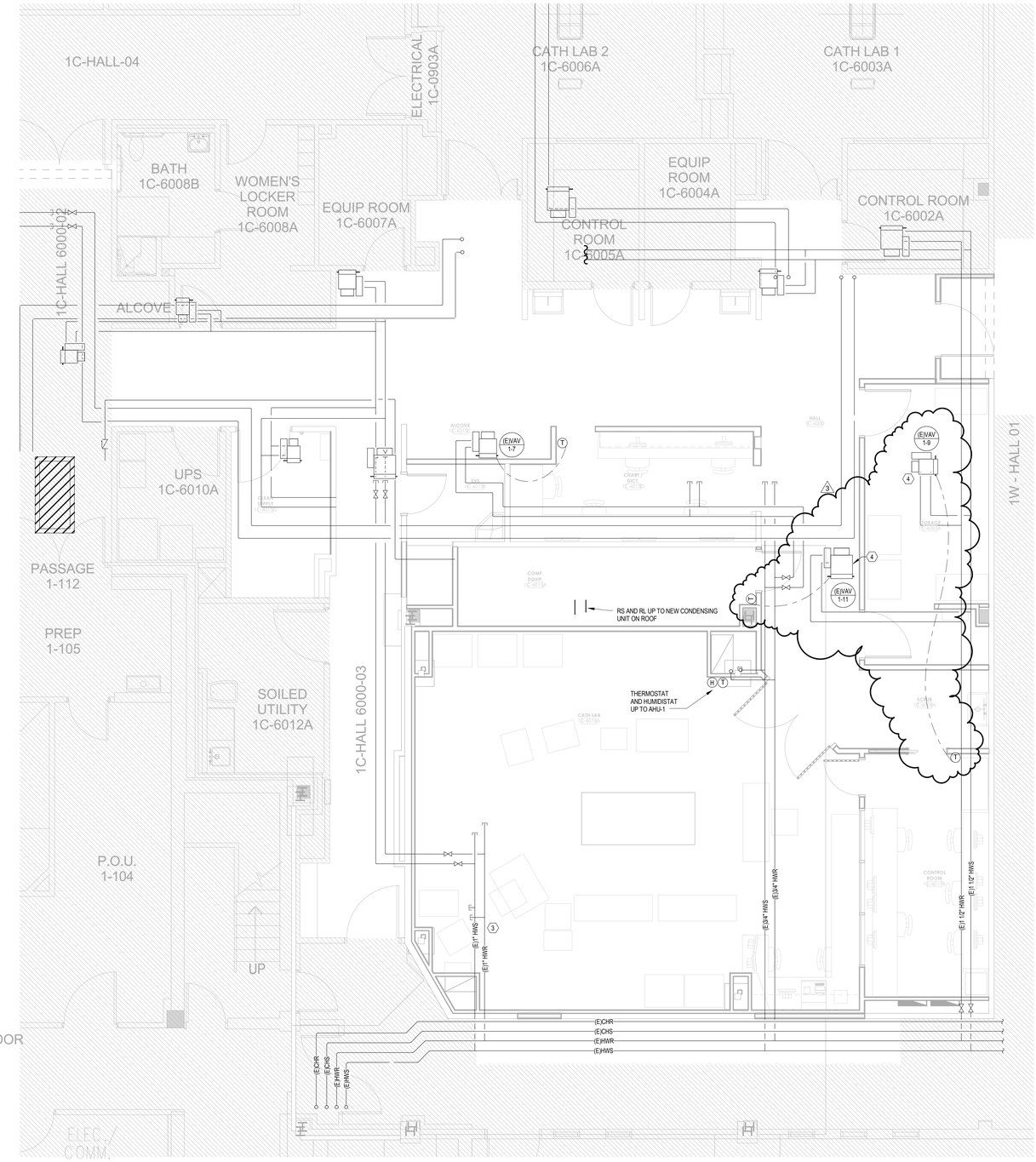
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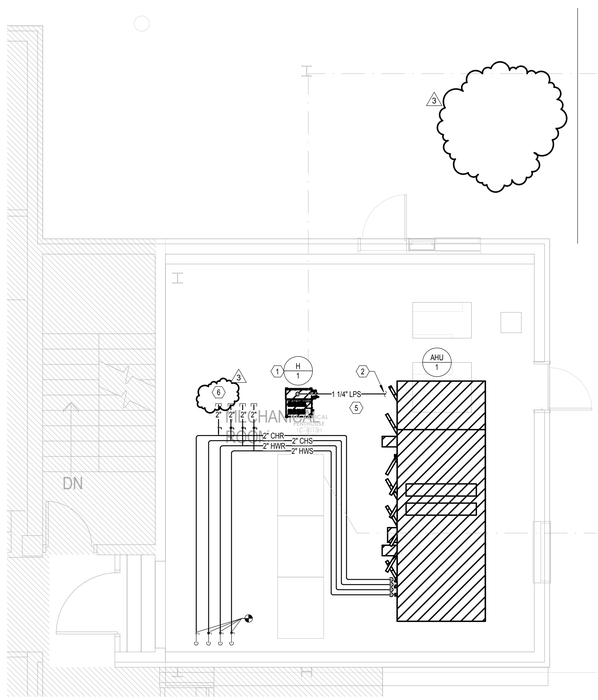
GENERAL NOTES:

A. REFER TO SHEET M.001 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.

LEGEND NOTES:

1. DRAIN CONDENSATE TO NEAREST FLOOR DRAIN.
2. STEAM TO AHU HUMIDIFICATION.
3. EXISTING HYDRONIC PIPE TO REMAIN. REMAINING PIPE TO BE COORDINATED WITH STRUCTURE.
4. EXISTING VAV BOX TO REMAIN.
5. CONTRACTOR TO PROVIDE DRAIN COOLER FOR STEAM HUMIDIFICATION.
6. CONTRACTOR TO INSTALL BALL VALVES AND CAP PIPING FOR FUTURE USE.

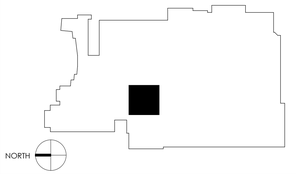




2 LEVEL 02 PENTHOUSE - PIPING PLAN
1/4" = 1'-0"

1 LEVEL 01 CATH LAB - PIPING PLAN
1/4" = 1'-0"

KEY PLAN



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JOHN PAUL WILLIAMS
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PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
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Issue	100% CD
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Project Number	16-003
Drawn by	BS
Checked by	WS

Sheet Title:
FLOOR PLAN - HVAC PIPING

Sheet Number
M.301

CONTRACT & drawings property of path 21 architecture

2/20/2017 4:45:05 PM

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Permit #: *17-1275373-LT*

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City of Aurora Building Division
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AIR DEVICE SCHEDULE

DESIG.	FRAME SIZE	OBD	FINISH	THROW	NECK SIZE	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24x24	NO	WHITE	4-WAY (ADJUSTABLE)	NOTE 1	TITUS TMSA-AA	SQUARE CONE DIFFUSER
S2	12x12	NO	WHITE	4-WAY (ADJUSTABLE)	NOTE 1	TITUS TMSA	SQUARE CONE DIFFUSER
S3	SEE PLANS	NO	WHITE	2-WAY	SEE PLANS	TITUS 300FL	LOUVERED SUPPLY GRILLE (SURFACE MOUNT)
S4	24x48	YES	WHITE	LAMINAR	8"□ OR 10"□	TITUS TLF-SS	LAMINAR FLOW DIFFUSER (OPERATING ROOM)
S5	24x36	YES	WHITE	LAMINAR	8"□ OR 10"□	TITUS TLF-SS	LAMINAR FLOW DIFFUSER (OPERATING ROOM)
S6	12x48	YES	WHITE	LAMINAR	8"□ OR 10"□	TITUS TLF-SS	LAMINAR FLOW DIFFUSER (OPERATING ROOM)
R1	24x24	NO	WHITE	N/A	NOTE 3	TITUS 355FL	LOUVERED RETURN (LAY IN)
R2	SEE PLANS	NO	WHITE	N/A	SEE PLANS	TITUS 355FL	LOUVERED RETURN (SURFACE MOUNT)
R3	SEE PLANS	NO	MILL	N/A	SEE PLANS	TITUS 350R-SS	STAINLESS STEEL LOUVERED RETURN
E1	12x12	NO	WHITE	N/A	NOTE 5	TITUS 355RL	LOUVERED EXHAUST (LAY IN)
E2	SEE PLANS	NO	WHITE	N/A	SEE PLANS	TITUS 355RL	LOUVERED EXHAUST (SURFACE MOUNT)

NOTES:

1.

NECK*	AIRFLOW
6"□	0-100 CFM
8"□	101-200 CFM
10"□	201-350 CFM
12"□	351-560 CFM
14"□	561-850 CFM

* AND/OR DUCT RUNOUT

2.

NECK*	AIRFLOW
6x6	0-100 CFM
8x8	101-230 CFM
10x10	231-360 CFM
12x12	361-450 CFM
16x16	451-800 CFM
22x22	801-1200 CFM

* AND/OR DUCT RUNOUT

3. ON ALL R1 DUCTED RETURN AIR GRILLES: PROVIDE 22"x22" NECK GRILLE AND INSTALL 22"x22"x6" TALL PLENUM BOX ON BACK OF GRILLE. SEE PLANS FOR DUCT RUN OUT SIZE TO PLENUM BOX. SEE NOTE 2 IF NO SIZE IS INDICATED.
4. PROVIDE AND INSTALL FACTORY LINEAR SLOT PLENUMS ON ALL LINEAR SLOT DIFFUSERS WITHOUT INTERNAL INSULATION. PLENUM SHALL HAVE EXTERNAL INSULATION ONLY. SEE NOTE 1 FOR NECK SIZE. MATCH PLENUM STYLE TO DIFFUSER STYLE FOR T-BAR OR SURFACE MOUNT APPLICATIONS.
5. SEE NOTE 1 FOR RUNOUT SIZE IF NOT INDICATED ON PLANS (NOTE 2 MAY BE USED AS AN ALTERNATE). PROVIDE SQUARE TO ROUND ADAPTER AS REQUIRED.

PUMP SCHEDULE

DESIG.	SERVES/ LOCATION	TYPE	GPM	TDH (FT)	MOTOR ELECTRICAL HP	MOTOR ELECTRICAL RPM	MOTOR ELECTRICAL VOLT/PHASE	MANUFACTURER/MODEL NO.	NOTES
PHP-AHU	PRE-HEAT CIRC. PUMP	IN-LINE	20	30	1	1750	460/3/60	B&G 60 1-1/2x6-1/4	3,5

NOTES
1. VARIABLE FREQUENCY DRIVE
2. 2-SPEED, H-O-A, STARTER
3. SINGLE SPEED, H-O-A, STARTER
4. ONE AS BACKUP
5. SERVES PRE-HEAT COIL.

ELECTRIC HUMIDIFIER SCHEDULE

DESIGNATION	CAPACITY LBS/HR	VOLTAGE/PHASE	AMPS	CFM	DUCT SIZE	SYSTEM SERVED	HUMIDISTAT LOCATION	ABSORPTION DISTANCE	MANUFACTURER/MODEL NUMBER	REMARKS/NOTES
H-1	119	480/3	50.5	4000	65x29	AHU-1	CATH LAB 4	8"	DRI-STEEM / VAPORSTREAM 42-2	ALL

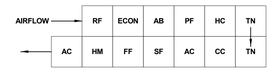
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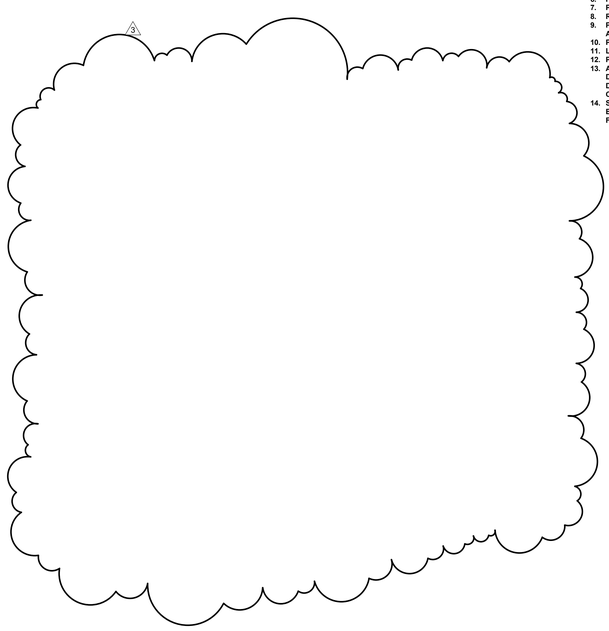
1. PROVIDE DRAIN COOLER AT STEAM GENERATOR AND DISPERSION GRID. ALL CONDENSATE TO BE PIPED TO DRAIN COOLER.
2. PROVIDE BACNET INTERFACE FOR INTEGRATION INTO BUILDING AUTOMATION SYSTEM. COORDINATE WITH T.C. CONTRACTOR.
3. AIR PROVING SWITCH, HIGH LIMIT HUMIDISTAT, ROOM TEMPERATURE AND HUMIDITY SENSOR PROVIDED BY T.C. CONTRACTOR.
4. PROVIDE ULTRASORB MODEL LV STEAM DISPERSION GRID WITH INSULATED TUBES (OR EQUAL). COORDINATE DISPERSION GRID WITH AHU.
5. PIPING BETWEEN STEAM GENERATOR AND DISPERSION GRID SHALL BE SCHEDULE 40 STEEL WITH 2" FIBERGLASS INSULATION.

AIR HANDLING UNIT SCHEDULE

DESIGNATION	AHU-	
LOCATION	PENTHOUSE	
SERVICE	CATH LAB	
SUPPLY FAN — CFM (MAX/MIN)	4,000	
SUPPLY FAN — ESP / TSP ("WG)	2.0 / 3.72	
SUPPLY FAN — FAN MOTOR HP (MIN)	5 HP	
SUPPLY FAN — POWER (VOLTS / PH)	480/3	
SUPPLY FAN — FAN WHEEL DIAMETER (IN)	14	
SUPPLY FAN — FAN WHEEL TYPE	PLENUM	
SUPPLY FAN — DRIVE (QTY)	DIRECT	
SUPPLY FAN — FAN RPM	3286	
RETURN FAN — CFM	4,000	
RETURN FAN — ESP / TSP ("WG)	0.5 / 0.78	
RETURN FAN — FAN MOTOR HP (MIN)	3 HP	
RETURN FAN — POWER (VOLTS / PH)	480/3	
RETURN FAN — FAN WHEEL DIAMETER (IN)	14	
RETURN FAN — FAN WHEEL TYPE	PLENUM	
RETURN FAN — DRIVE	DIRECT	
RETURN FAN — FAN RPM	2630	
COOLING COIL DATA — TYPE	CHILLED WATER	
COOLING COIL DATA — CFM	4,000	
COOLING COIL DATA — MAX FACE VEL (FPM)	450	
COOLING COIL DATA — MAX AIR P.D. ("WG)	0.4	
COOLING COIL DATA — TOTAL / SENS (MBTUH)	124 / 98	
COOLING COIL DATA — EAT °F DB/WB	80 / 62	
COOLING COIL DATA — LAT °F DB/WB	52.4 / 51	
COOLING COIL DATA — ROWS/FPI	6 / 10	
COOLING COIL DATA — FIN MATERIAL	ALUMINUM	
COOLING COIL DATA — FLUID EWT / LWT	45 / 55	
COOLING COIL DATA — GPM	25	
COOLING COIL DATA — FLUID PRESSURE DROP (FT WC)	7.3	
COOLING COIL DATA — FLUID VELOCITY (FT/SEC)	3.4	
HEATING COIL DATA — TYPE	HOT WATER	
HEATING COIL DATA — CFM	4,000	
HEATING COIL DATA — EAT °F DB	40	
HEATING COIL DATA — LAT °F DB	90	
HEATING COIL DATA — MAX FACE VEL (FPM)	450	
HEATING COIL DATA — MAX AIR P.D. ("WG)	0.08	
HEATING COIL DATA — TOTAL CAPACITY (MBH)	196	
HEATING COIL DATA — FLUID EWT / LWT	140/120	
HEATING COIL DATA — GPM	20	
HEATING COIL DATA — ROWS / FINS PER INCH	2 / 10	
HEATING COIL DATA — FLUID PRESSURE DROP (FT WC)	5.1	
HEATING COIL DATA — FLUID VELOCITY (FT/SEC)	3.9	
OUTSIDE AIR CFM (MIN) (AT FULL COOLING)	800	
FIRST FILTER DATA — CFM	4,000	
FIRST FILTER DATA — TYPE	C	
FIRST FILTER DATA — EFFICIENCY (%) (ASHRAE 52)	35%	
FIRST FILTER DATA — MAX. VELOCITY (FPM)	500	
FIRST FILTER DATA — P.D. (DIRTY / CLEAN)	0.3 / 0.5	
FINAL FILTER DATA — CFM	4,000	
FINAL FILTER DATA — TYPE	E	
FINAL FILTER DATA — EFFICIENCY (%) (ASHRAE 52)	90%	
FINAL FILTER DATA — MAX. VELOCITY (FPM)	500	
FINAL FILTER DATA — P.D. (DIRTY / CLEAN)	1.0 / 0.61	
BASED ON (MANUF.)	JCI	
BASED ON(MODEL NO.)	-	
WEIGHTS (INCLUDING PLENUMS, DOES NOT INCLUDE CURB)	4890	
REMARKS / NOTES	ALL	

NOTES:
1. CLEAN FILTERS. ISP EQUALS AHU SP LOSS WITH DIRTY FILTERS. TSP EQUALS ESP + ISP. TSP LISTED IS FOR REFERENCE ONLY.
2. FAN MOTOR NAMEPLATE HP SHALL NOT BE EXCEEDED AT SCHEDULED CFM AND TSP
3. PROVIDE PARAGON CONTROLS PIEZOMETER RINGS CERTIFIED TO MEASURE AIR FLOW WITHIN +/- 3.0% ACCURACY FOR SUPPLY AND RETURN FAN AIRFLOW MEASUREMENTS.
4. PROVIDE INTERNALLY ISOLATED FANS, DRIVES, MOTORS.
5. PROVIDE MANUFACTURER RETURN PLENUM.
6. PROVIDE BAS INTERFACE FOR ALL AIR HANDLING AND FAN COIL EQUIPMENT.
7. PROVIDE AHU WITH INTEGRAL DISCONNECTS.
8. REFER TO HVAC AIR FILTRATION SPECIFICATIONS FOR FILTER REQUIREMENTS AND TYPES.
9. PROVIDE A MANOMETER TO READ ACROSS EACH FILTER BED HAVING AN EFFICIENCY OF 75% OR GREATER. ACCESS SHALL BE PROVIDED FOR FIELD TESTING.
10. PROVIDE ALUMINUM AIR BLENDER SECTION.
11. LIGHTS SHALL HAVE TIMER SWITCH.
12. PROVIDE VIEW WINDOW AND LIGHT IN EACH FAN, COIL AND FILTER SECTION.
13. AIR HANDLER IS TO BE SET ON STRUCTURAL FRAMING APPROXIMATELY 24" ABOVE THE FLOOR. FRAMING DESIGN SHALL BE BY STRUCTURAL SUB CONTRACTOR. AIR UNIT CONSTRUCTION SHALL BE COORDINATED WITH DELEGATED DESIGN SUB CONTRACTOR WITH INTERMEDIATE SUPPORTS PROVIDED AS REQUIRED DURING THE COORDINATION PROCESS.
14. STACKED UNIT SHALL HAVE THE FOLLOWING COMPONENTS IN THE DIRECTION OF AIRFLOW: RETURN FAN, ECONOMIZER, AIR BLENDER, PREFILTER, HEATING COIL, TURNING SECTIONS, COOLING COIL, ACCESS, SUPPLY FAN, FINAL FILTER, HUMIDIFIER, ACCESS. SEE DIAGRAM BELOW.





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COLORADO LICENSED
WILLIAM SCHMIDT
WS 47964
8/19/16
PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
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Issue	100% CD
Date	08/19/16
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Sheet Title:
MECHANICAL SCHEDULES

Sheet Number
M.601

CONTRACT & PROPERTY OF PATH 21 ARCHITECTURE

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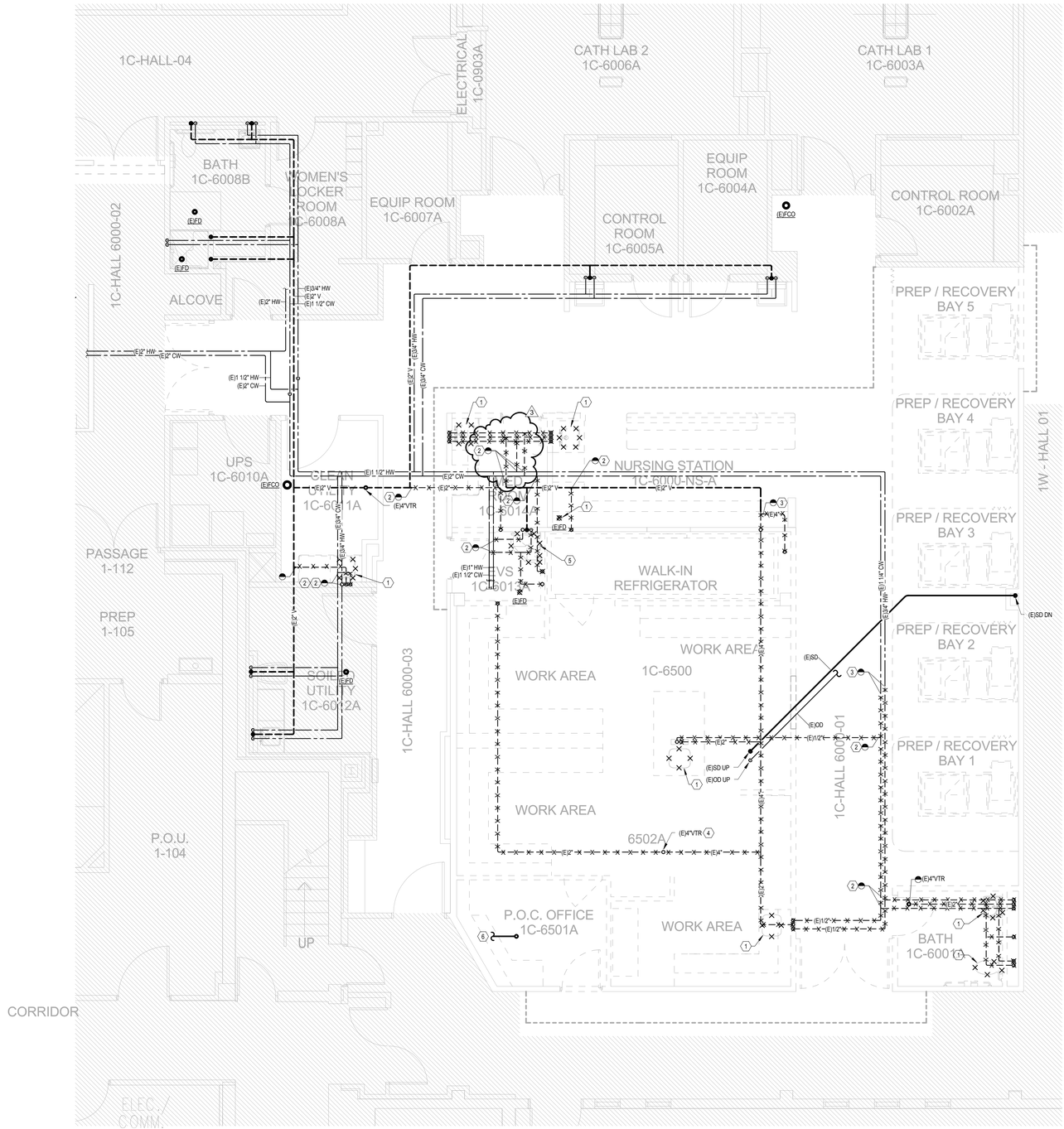
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GENERAL NOTES:

A. REFER TO SHEET P.100 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.

LEGEND NOTES:

1 DEMOLISH EXISTING PLUMBING FIXTURE
2 DEMOLISH EXISTING PIPING BACK TO EXISTING MAIN. CAP AND SEAL WATER/AIR TIGHT.
3 DEMOLISH EXISTING PIPING BACK TO POINT SHOWN. PREPARE FOR NEW CONNECTION.
4 DEMOLISH EXISTING 4"VTR. PATCH AND SEAL ROOF PENETRATION PER ARCHITECTURAL DRAWINGS.
5 DEMOLISH EXISTING PLUMBING FIXTURE AND PREPARE FOR RE-LOCATION.
6 DEMOLISH EXISTING SANITARY PIPING AND REROUTE TO NEW LOCATION.



1 LEVEL 01 CATH LAB - PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

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Consultant Team

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WSP + CCRD
5613 DTC Parkway, Suite 500
Greenwood Village, CO 80111
ph: 303.694.4755

No.	Description	Date
3	ASI 03	01/09/2017

COLORADO LICENSED MECHANICAL ENGINEER 47964 8/19/16 PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

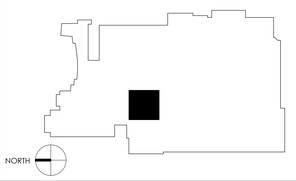
1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	AL
Checked by	WS

Sheet Title:
FLOOR PLAN - PLUMBING DEMOLITION

Sheet Number
PD.201

KEY PLAN



5/5/2017 2:50:44 PM

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

RSN: *1197632*
Permit #: *17-1275373-LT*

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Apr 11, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

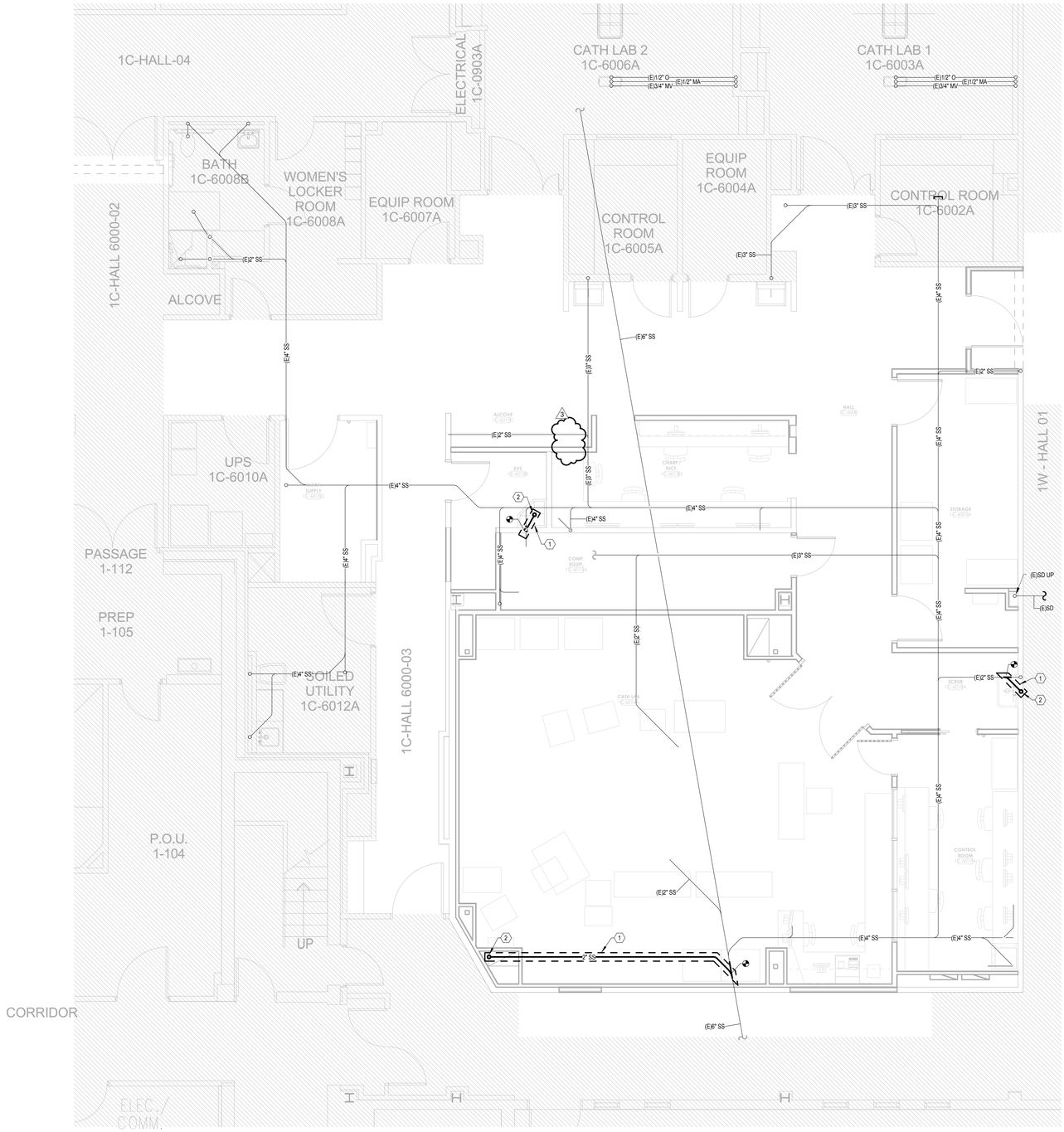
GENERAL NOTES:

A. REFER TO SHEET P.100 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.

LEGEND NOTES:

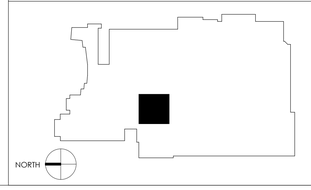
1 SAWCUT & PROVIDE TRENCHING AS NECESSARY TO ROUTE NEW SANITARY SEWER PIPING TO EXISTING SANITARY SEWER.

2 (N)2"SS UP.



1 LEVEL 00 CATH LAB - UNDERFLOOR PLUMBING PLAN
1/4" = 1'-0"

KEY PLAN



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No.	Description	Date
3	ASI 03	01/09/2017

COLORADO LICENSED MICHAEL SMITH 47964 8/14/16 PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	AL
Checked by	WS

Sheet Title:
UNDERFLOOR PLAN - PLUMBING

Sheet Number
P.101

CONTRACT & PROPERTY OF PATH21 ARCHITECTURE

1/9/2017 2:30:37 PM

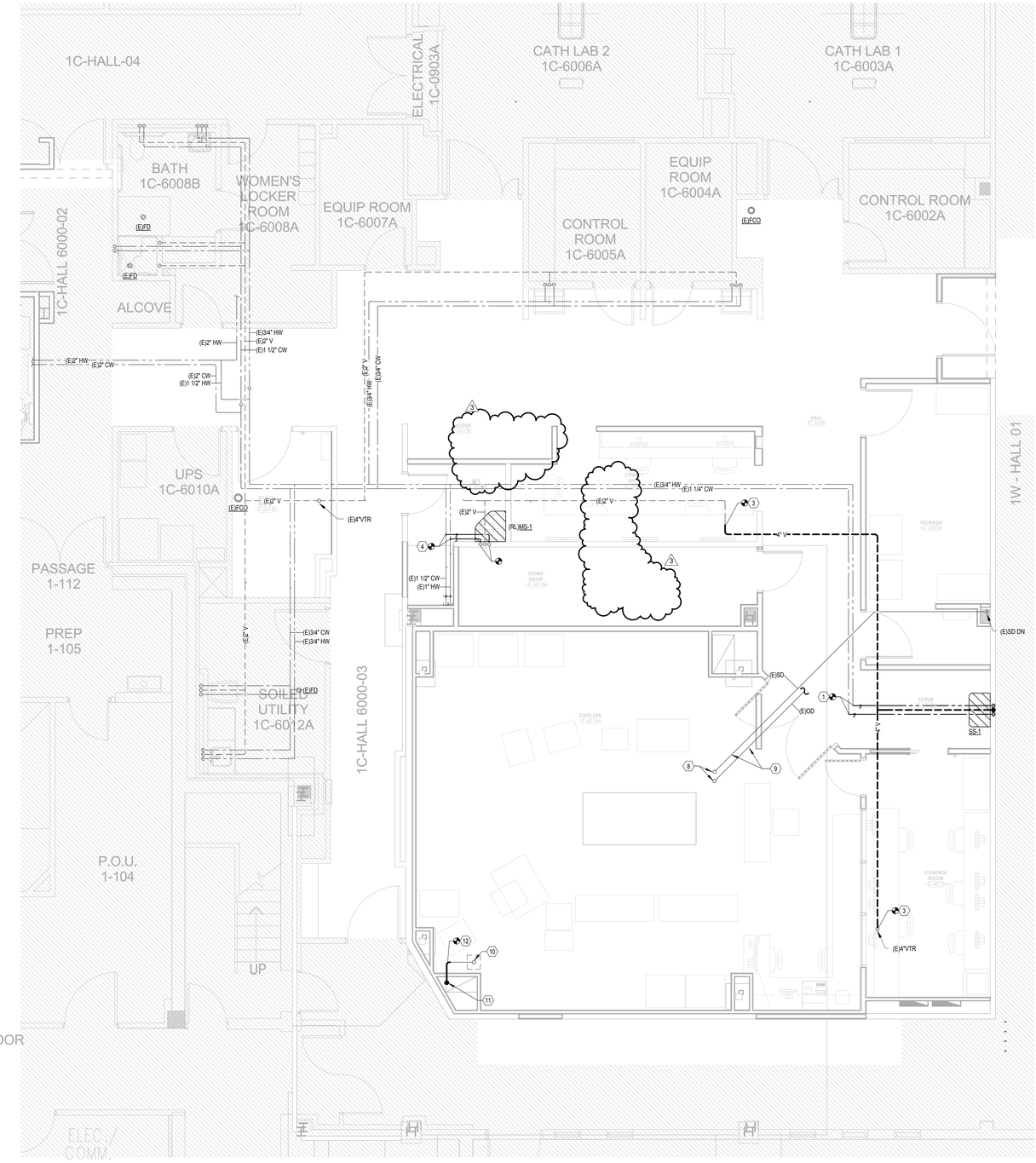
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *John Lichtner*
Date: *Apr 11, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

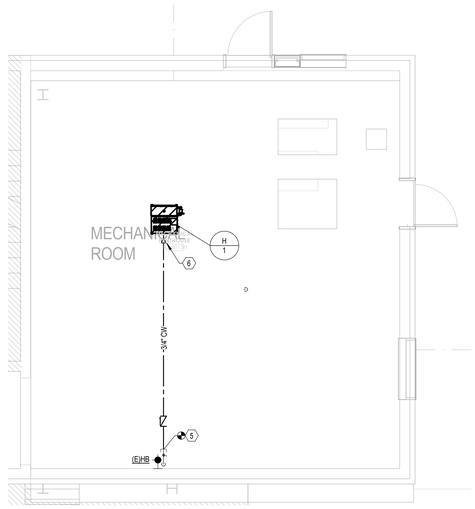
RSN: *1197632*
Permit #: *17-1275373-LT*

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GENERAL NOTES:

A. REFER TO SHEET P.100 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.





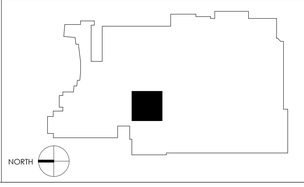
2 LEVEL 02 PENTHOUSE - PLUMBING PLAN
1/4" = 1'-0"

1 LEVEL 01 CATH LAB - PLUMBING PLAN
1/4" = 1'-0"

LEGEND NOTES:

1. CONNECT NEW 1/2"CW AND 1/2"HW PIPING TO EXISTING MAINS.
2. NOT USED.
3. RELOCATE 4" VENT PIPING TO EXISTING 4" VTR.
4. PROVIDE NEW CW/HW PIPING TO RELOCATED MS-1. CONNECT NEW PIPING WITH BALL VALVES TO EXISTING CONNECTIONS.
5. CONNECT 3/4"CW TO EXISTING HOSE BIBB WITH CHECK VALVE..
6. ROUTE 3/4"CW TO STEAM GENERATOR H-1. COORDINATE FINAL CONNECTION AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
8. EXISTING ROOF DRAIN PIPING UP TO ROOF DRAINS.
9. PROVIDE PROVISIONS TO RAISE EXISTING PIPING SO THAT IT IS TIGHT TO STRUCTURE. DRAIN PAN ALL ROOF DRAINAGE AND OVERFLOW ROOF DRAINAGE PIPING IN CATH LAB SPACE. ROUTE DRAIN PAN DRAINAGE TO NEAREST OPEN SITE DRAIN.
10. EXISTING SS UP TO EXISTING FLOOR SINK. DRAIN PAN ALL SS PIPING LOCATED ABOVE CATH LAB SPACE.
11. ROUTE SS PIPING DOWN AND RECONNECT TO EXISTING.
12. DRAIN PAN ALL SS PIPING IN CATH LAB SPACE. ROUTE DRAIN PAN DRAINAGE TO NEAREST OPEN SITE DRAIN.

KEY PLAN



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No.	Description	Date
3	ASI 03	01/09/2017

COLORADO LICENSED MECHANICAL ENGINEER 47964 8/19/16 PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	AL
Checked by	WS

Sheet Title:
FLOOR PLAN - PLUMBING

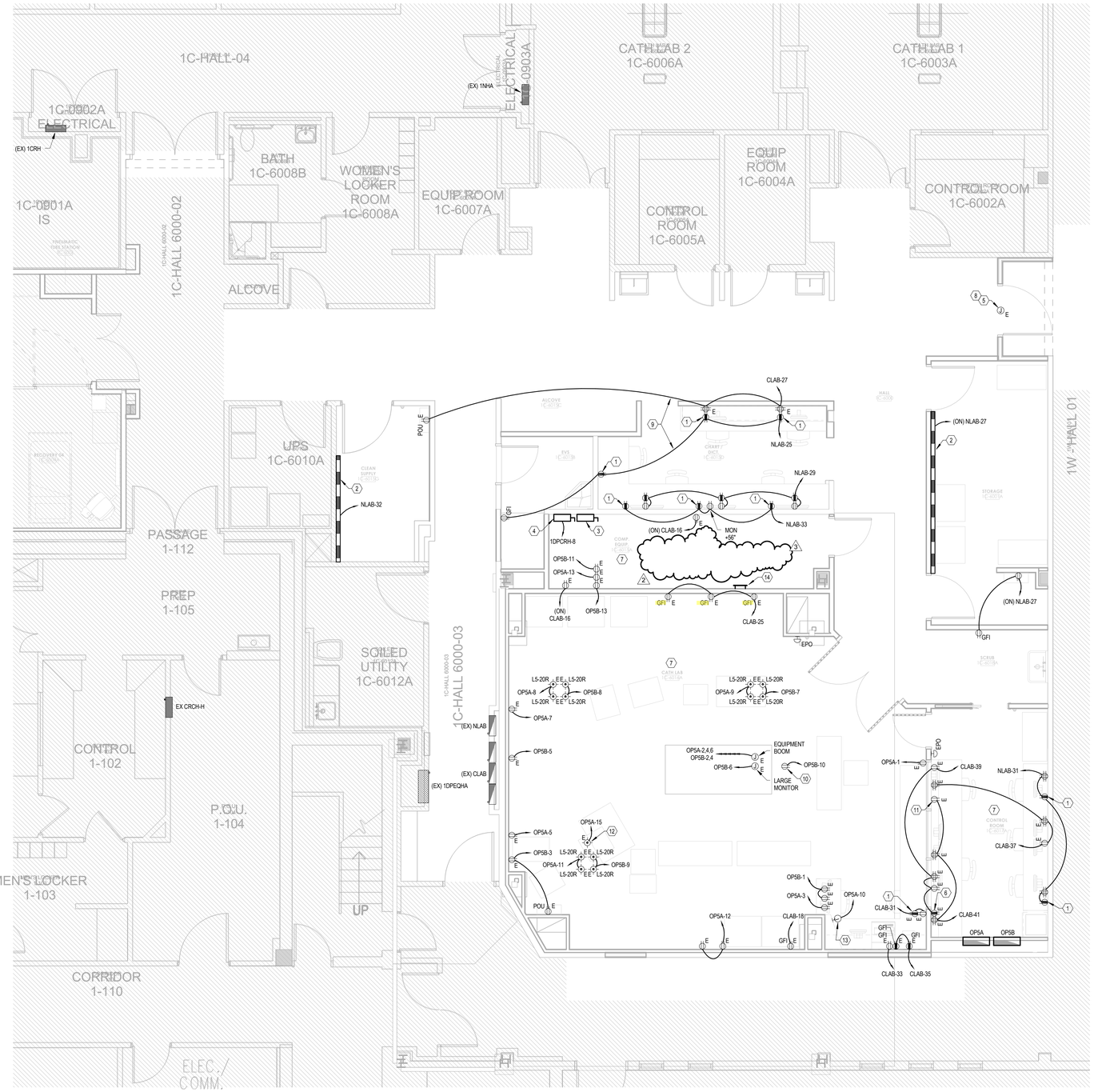
Sheet Number
P.201

CONTRACT & IP PROPERTY OF PATH21 ARCHITECTURE

2/20/2017 8:44:45 PM

GENERAL NOTES:

A. REFER TO SHEET E.100 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.
B. REFER TO ARCHITECTURAL ELEVATIONS FOR ALL DEVICE ELEVATIONS.
C. REFER TO DETAILS ON E.601 FOR PATIENT VICINITY GROUNDING REQUIREMENTS.



1 LEVEL 01 CATH LAB - POWER PLAN
1/4" = 1'-0"

LEGEND NOTES:

1. PROVIDE HOSPITAL GRADE DUPLEX RECEPTACLE WITH (2) USB OUTLETS, EQUAL TO LEGRAND TR8300HUSB.
2. PROVIDE SURFACE MOUNTED RACEWAY EQUAL TO LEGRAND 3000 SERIES MOUNTED AT 54" AFF. PROVIDE (1) HOSPITAL GRADE DUPLEX RECEPTACLE AT 24" OC.
3. PROVIDE 125A/3P ENCLOSED CIRCUIT BREAKER FOR UPS OUTPUT. COORDINATE ADDITIONAL REQUIREMENTS WITH VENDOR DRAWINGS.
4. PROVIDE 150A/3P ENCLOSED SHUNT TRIP CIRCUIT BREAKER DISCONNECT SWITCH TO SERVE AS CATH EQUIPMENT MAIN DISCONNECTING MEANS. COORDINATE ADDITIONAL REQUIREMENTS WITH VENDOR DRAWINGS.
5. 120V CONNECTION FOR AUTO DOOR OPERATOR AND ACCESS CONTROLS. COORDINATE REQUIREMENTS WITH DOOR HARDWARE VENDOR AND SECURITY CONTRACTOR.
6. RECEPTACLE FOR CONNECTION TO OWNER FURNISHED SOUND SYSTEM COMPONENTS. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
7. REFER TO PHILIPS AND STRYKER DRAWINGS FOR ALL VENDOR RACEWAY, CONDUCTOR, AND ROUGH-IN REQUIREMENTS WITHIN THIS SPACE.
8. CONNECT NEW AUTO DOOR OPERATOR TO EXISTING LIFE SAFETY CIRCUIT SERVING DEMOLISHED AUTO DOOR, INDICATED TO BE 2LSL-4 ON RECORD DOCUMENTS. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO REACH NEW DOOR LOCATION.
9. REUSE EXISTING CONDUITS SERVING DEMOLISHED NURSE STATION WHERE PRACTICABLE.
10. 120V CONNECTION TO VENDOR EQUIPMENT LOCATED WITHIN MED GAS PEDESTAL. COORDINATE REQUIREMENTS WITH VENDOR.
11. RECEPTACLE MOUNTED ABOVE WINDOW FOR CONNECTION TO CEILING MOUNTED MONITORS.
12. DUPLEX 5-20R
13. BACK BOX FOR BOOM MOUNTED LIGHTING CONTROLLER. COORDINATE ROUGH-IN REQUIREMENTS WITH SYSTEM VENDOR. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.
14. EQUI-POTENTIAL GROUND BAR FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO VENDOR DRAWINGS FOR PURCHASING INFORMATION. PROVIDE (1) #1 AWG GROUND IN 3/4"C FROM 1DPCRH.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

Install electrical connections per 2014 NEC 110.14, identify disconnects per 2014 NEC 110.22 and provide working space around electrical equipment per 2014 NEC 110.26.

THIS IS A PLAN REVISION TO PARENT RSN # 1156136, CALL ALL INSPECTIONS UNDER PARENT PERMIT NOT THE REVISION

Failure to follow approved plans may result in an hourly fee to review the field changes for code compliance.

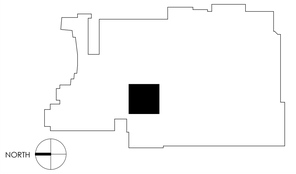
Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Erick B.*
Date: *Apr 12, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

RSN: *1197632*
Permit #: *17-1275373*

KEY PLAN



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No.	Description	Date
2	ASI 02	10/18/2016
3	ASI 03	01/09/2017

COLORADO LICENSED 45502 PROFESSIONAL ENGINEER 10-18-16

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	CL
Checked by	JG

Sheet Title:
FLOOR PLAN - POWER

Sheet Number
E.201

CONTRACT & 2016 path21 architecture

1/11/2017 2:21:35 PM

GENERAL NOTES:

A. REFER TO SHEET E.100 FOR LEGENDS, GENERAL NOTES AND ABBREVIATIONS.
B. REFER TO ARCHITECTURAL ELEVATIONS FOR ALL DEVICE ELEVATIONS.

(#) LEGEND NOTES:

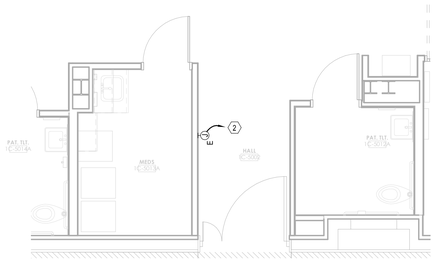
1 PROVIDE 120V EQUIPMENT BRANCH CONNECTION TO TEMPERATURE CONTROLS. COORDINATE ADDITIONAL REQUIREMENTS WITH CONTROLS CONTRACTOR.

2 RELOCATED MEDICAL GAS ALARM PANELS. EXTEND EXISTING 120V LIFE SAFETY CIRCUIT SERVING PANELS AT PREVIOUS LOCATION TO NEW LOCATION. INDICATED TO BE 2LSL-2 ON RECORD DOCUMENTS. UTILIZE EXISTING ROUGH-IN INSTALLED UNDER THE PREP/RECOVERY SCOPE. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO REACH NEW ROUGH-IN.

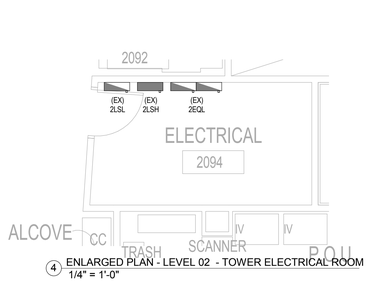
Only highlighted or clouded revisions are approved on this review. All previous comments apply.

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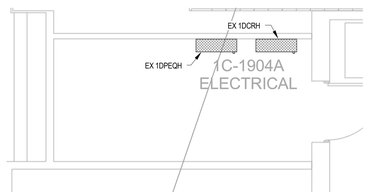
THIS IS A PLAN REVISION TO PARENT RSN # 1156136. CALL ALL INSPECTIONS UNDER PARENT PERMIT NOT THE REVISION



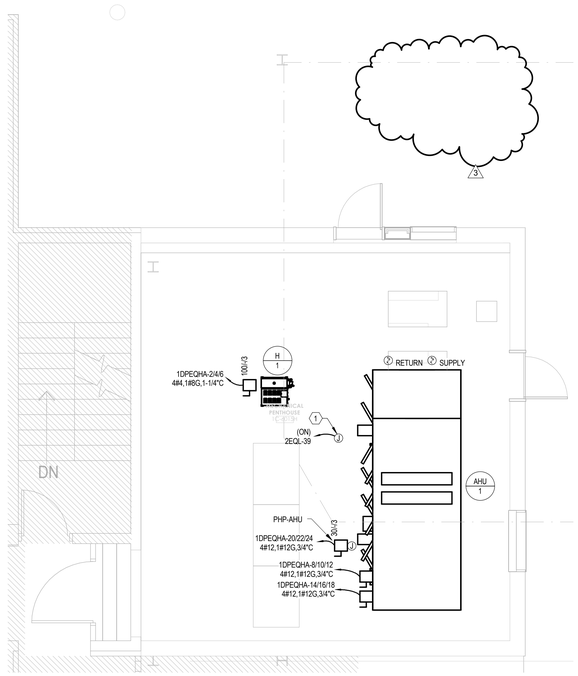
2 LEVEL 01 CATH LAB/PREP RECOVERY - POWER PLAN
1/4" = 1'-0"



4 ENLARGED PLAN - LEVEL 02 - TOWER ELECTRICAL ROOM
1/4" = 1'-0"



3 ENLARGED PLAN - LEVEL 01 - TOWER ELECTRICAL ROOM
1/4" = 1'-0"



1 LEVEL 02 PENTHOUSE - POWER PLAN
1/4" = 1'-0"

Failure to follow approved plans may result in an hourly fee to review the field changes for code compliance.

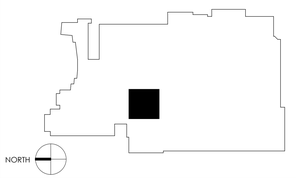
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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Erick B.*
Date: *Apr 12, 2017*
2015 INTERNATIONAL CODES & 2014 NEC

RSN: *1197632*
Permit #: *17-1275373*

KEY PLAN



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No.	Description	Date
3	ASI 03	01/09/2017

COLORADO LICENSED
JOSEPH M. GOLL
45502
10-18-16
PROFESSIONAL ENGINEER

TMCA CATH LAB HYBRID LAB RENOVATION

1501 S Potamac St,
Aurora, CO 80012

Issue	100% CD
Date	08/19/16
Project Number	16-003
Drawn by	CL
Checked by	JG

Sheet Title:
FLOOR PLANS - POWER

Sheet Number
E.202

CONTRACT & PROJECT DOCUMENTS

1/11/2017 6:42:24 PM

EXISTING PANEL: 1DPEQHA — EQUIPMENT

LOCATION: CATH CORRIDOR | FED FROM: 2DPEQH | NEUTRAL BUS: Yes
MAIN BUS: 400A | 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: 14,000A | MOUNTING: Recessed | 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	EXISTING LOAD	-	90	3	A	*70	3	13884	H-1	2
3	---	-	-	-	B	-	-	13884	---	4
5	---	-	-	-	C	-	-	13884	---	6
7	EXISTING LOAD	-	30	3	A	*20	3	2439	AHU-## SF	8
9	---	-	-	-	B	-	-	2439	---	10
11	---	-	-	-	C	-	-	2439	---	12
13	EXISTING LOAD	-	20	3	A	*15	3	1912	AHU-## RF	14
15	---	-	-	-	B	-	-	1912	---	16
17	---	-	-	-	C	-	-	1912	---	18
19	EXISTING LOAD	-	20	3	A	*15	3	583	PHP-AHU	20
21	---	-	-	-	B	-	-	583	---	22
23	---	-	-	-	C	-	-	583	---	24
25	EXISTING LOAD	-	20	1	A			-	S.O.	26
27	EXISTING LOAD	-	20	1	B			-	S.O.	28
29	EXISTING LOAD	-	20	1	C			-	S.O.	30
31	EXISTING LOAD	-	20	1	A			-	S.O.	32
33	EXISTING LOAD	-	20	1	B			-	S.O.	34
35	S.O.	-			C			-	S.O.	36
37	S.O.	-			A			-	S.O.	38
39	S.O.	-			B			-	S.O.	40
41	S.O.	-			C			-	S.O.	42

NOTES:
* INDICATES TO PROVIDE A NEW CIRCUIT BREAKER IN EXISTING PREPARED SPACE.

'1DPEQHA' LOAD SUMMARY

	LTS	RCPTS	MTRS	HEAT	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	14.8	41.7	0.0	56.5	67.9
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	0.0	0.0	16.6	41.7	0.0	58.3	70.1
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	16.6	41.7	0.0	58.3	70.1

EXISTING PANEL: 1NHA — NORMAL

LOCATION: CORR. 1062 | FED FROM: 1DPNH | 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	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	*20	1	923	LTG - HYBRID CATH	4
5	EXISTING LOAD	-	20	1	C	20	1	-	SPARE	6
7	EXISTING LOAD	-	15	3	A	20	1	-	SPARE	8
9	---	-	-	-	B	20	1	-	SPARE	10
11	---	-	-	-	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:
* INDICATES LOAD ADDED TO AN EXISTING SPARE CIRCUIT BREAKER.

'1NHA' LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.9	0.0	0.0	0.0	0.0	0.9	1.1
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	0.9	0.0	0.0	0.0	0.0	0.9	1.1
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	1.2	0.0	0.0	0.0	0.0	1.2	1.4

EXISTING PANEL: 1CRH — CRITICAL

LOCATION: ELEC CLOSET 1090A | FED FROM: 1DPCRH | 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	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	LTG - HYBRID CATH	1072	*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:
* INDICATES LOAD ADDED TO AN EXISTING SPARE CIRCUIT BREAKER.

'1CRH' LOAD SUMMARY

	LTS	RCPTS	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	1.1	0.0	0.0	1.1	1.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE				
TOTAL DEMAND LOAD	1.1	0.0	0.0	1.1	1.3
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00		
TOTAL DESIGN LOAD	1.3	0.0	0.0	1.3	1.6

EXISTING PANEL: 2EQL — EQUIPMENT

LOCATION: ELEC. 2094 | FED FROM: 1DPEQH | NEUTRAL BUS: Yes
MAIN BUS: 225A | WIRES: 4W + G | GROUND BUS: Yes
MCB: 150A | ENCLOSURE: NEMA 1 | ISOLATED GROUND BUS: No
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	-	EXISTING LOAD	2
3	SPARE	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	8
9	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	10
11	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	12
13	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	14
15	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	16
17	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	18
19	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	20
21	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	22
23	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	24
25	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	26
27	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	28
29	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	30
31	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	32
33	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	34
35	EXISTING LOAD	-	20	1	C	20	1	-	SPARE	36
37	EXISTING LOAD	-	20	1	A	20	1	-	SPARE	38
39	TEMP CNTRLS - CATH PENT	500	*20	1	B	20	1	-	SPARE	40
41	SPARE	-	20	1	C	20	1	-	SPARE	42

NOTES:
* INDICATES LOAD ADDED TO AN EXISTING SPARE CIRCUIT BREAKER.

EXISTING PANEL: 2EQL (SECTION 2) — EQUIPMENT

LOCATION: ELEC. 2094 | 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	EXISTING LOAD	-	15	1	A	20	1	-	EXISING LOAD	44
45	EXISING LOAD	-	15	1	B	20	1	-	SPARE	46
47	EXISING LOAD	-	15	1	C	20	1	-	EXISING LOAD	48
49	EXISING LOAD	-	15	1	A	20	1	-	EXISING LOAD	50
51	EXISING LOAD	-	20	1	B	20	1	-	EXISING LOAD	52
53	EXISING LOAD	-	20	1	C	20	1	-	EXISING LOAD	54
55	EXISING LOAD	-	20	1	A	20	1	-	EXISING LOAD	56
57	EXISING LOAD	-	20	1	B	20	1	-	EXISING LOAD	58
59	EXISING LOAD	-	20	1	C	20	1	-	EXISING LOAD	60
61	EXISING LOAD	-	20	1	A	20	1	-	EXISING LOAD	62
63	EXISING LOAD	-	20	1	B	20	1	-	EXISING LOAD	64
65	EXISING LOAD	-	20	1	C	20	1	-	SPARE	66
67	EXISING LOAD	-	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	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	0.0	0.5	0.5	1.4
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	0.0	0.5	0.5	1.4
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	0.0	0.5	0.5	1.4

Service equipment shall be permanently and legibly marked to show the available fault current and date.
2014 NEC 110.24(A)(B).

Legibly identify each breaker or switch for it's use or purpose on the circuit directory in the panel/switchboard per 2014 NEC 408.4.

EXISTING PANEL: NLAB — NORMAL

LOCATION: LAB 1097 | FED FROM: 1DPNL | 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	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	8
9	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	10
11	EXISTING LOAD	-	20	1	C	*20	1	-	EXISTING LOAD	12
13	EXISTING LOAD	-	*20	1	A	*20	1	-	EXISTING LOAD	14
15	EXISTING LOAD	-	*20	1	B	*20	1	-	EXISTING LOAD	16
17	SPARE	-	20	1	C	20	1	-	EXISTING LOAD	18
19	SPARE	-	20	1	A	20	1	-	EXISTING LOAD	20
21	SPARE	-	20	1	B	20	1	-	EXISTING LOAD	22
23	EXISTING LOAD	-	*20	1	C	20	1	-	EXISTING LOAD	24
25	RCPT - CHART / EVS	720	*20	1	A	20	1	-	EXISTING LOAD	26
27	PLUGMOLD - STORAGE	900	*20	1	B	20	1	-	EXISTING LOAD	28
29	RCPT - CHART	1080	*20	1	C	20	1	-	EXISTING LOAD	30
31	RCPT - CATH CNTRL	1080	*20	1	A	*20	1	360	PLUGMOLD - CLEAN SUPPLY	32
33	RCPT - CHART	720	*20	1	B	20	1	-	SPARE	34
35	EXISTING LOAD	-	20	1	C	20	1	-	SPARE	36
37	PANEL 'LPQA'	-	60	3	A	*20	1	-	SPARE	38
39	--	-	-	-	B	20	1	-	SPARE	40
41	--	-	-	-	C	20	1	-	SPARE	42

NOTES:

'NLAB' LOAD SUMMARY

	LTS	RCPTS	MTRS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	4.9	0.0	0.0	0.0	4.9	13.5
DEMAND FACTOR	SEE DEMAND FACTOR TABLE						
TOTAL DEMAND LOAD	0.0	4.9	0.0	0.0	0.0	4.9	13.5
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	4.9	0.0	0.0	0.0	4.9	13.5

EXISTING PANEL: CRCH-H — CRITICAL

LOCATION: CATH 4 CNTRL RM | FED FROM: CR | NEUTRAL BUS: Yes
MAIN BUS: 400A | 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: EXISTING | 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	EXISTING LOAD	-	30	3	A	45	3	-	EXISTING LOAD	2
3	---	-	-	-	B	-	-	-	---	4
5	---	-	-	-	C	-	-	-	---	6
7	EXISTING LOAD	-	30	3	A	15	3	-	EXISTING LOAD	8
9	---	-	-	-	B	-	-	-	---	10
11	---	-	-	-	C	-	-	-	---	12
13	EXISTING LOAD	-	15	3	A	15	3	-	EXISTING LOAD	14
15	---	-	-	-	B	-	-	-	---	16
17	---	-	-	-	C	-	-	-	---	18
19	EXISTING LOAD	-	20	3	A	*45	1	3740	OP5A	20
21	---	-	-	-	B	*45	1	4000	OP5B	22
23	---	-	-	-	C	20	1	-	SPARE	24

NOTES:
* INDICATES TO REPLACE EXISTING SPARE CIRCUIT BREAKER WITH NEW BREAKER AS INDICATED.

'CRCH-H' LOAD SUMMARY

	LTS	RCPTS	HSPTL	MISC	TOTAL (KVA)	TOTAL (AMPS)
TOTAL CONNECTED LOAD	0.0	0.0	5.5	2.2	7.7	9.3
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.0	0.0	2.2	2.2	4.4	5.3
CONTINUOUS (DESIGN) FACTOR	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD	0.0	0.0	2.2	2.2	4.4	5.3

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

THIS IS A PLAN REVISION TO PARENT RSN # 1156136. CALL ALL INSPECTIONS UNDER PARENT PERMIT NOT THE REVISION

EXISTING PANEL: CLAB — CRITICAL

LOCATION: LAB 1097 | FED FROM: 2DPCRL | NEUTRAL BUS: Yes
MAIN BUS: 225A | 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: 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	EXISTING LOAD	-	20	1	A	*20	1	-	EXISTING LOAD	2
3	EXISTING LOAD	-	20	1	B	20	1	-	EXISTING LOAD	4
5	EXISTING LOAD	-	20	1	C	20	1	-	EXISTING LOAD	6
7	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	8
9	EXISTING LOAD	-	20	2	B	20	1	-	EXISTING LOAD	10
11	--	-	-	-	C	20	1	-	EXISTING LOAD	12
13	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	14
15	EXISTING LOAD	-	*20	1	B	*20	1	360	RCPT - CATCH EQUIPM RM	16
17	EXISTING LOAD	-	20	1	C	*20	1	180	RCPT - HYBRID CATH	18
19	EXISTING LOAD	-	20	1	A	20	1	-	EXISTING LOAD	20
21	SPARE	-	*20+	2	B	20	1	-	EXISTING LOAD	22
23	---	-	-	-	C	20	1	-	EXISTING LOAD	24
25	RCPT - HYBRID CATH	540	20	1	A	*30+	2	-	SPARE	26
27	RCPT - CHART / CLEAN SPLY	900	*20	1	B			-	---	28
29	LTG - HYBRID CATH	549	*20	1	C	20	1	-	EXISTING LOAD	30
31	RCPT - HYBRID CATH	360	*20	1	A	20	1	-	EXISTING LOAD	32
33	UCF - HYBRID CATH	480	*20	1	B	20	1	-	EXISTING LOAD	34
35	RCPT / PYXIS - HYBRID CATH	360	*20	1	C	20	1	-	SPARE	36
37	RCPT - HYBRID CNTRL RM	900	*20	1	A	20	1	-	EXISTING LOAD	38
39	RCPT - HYBRID CNTRL RM	540	*20	1	B	20	1	-	EXISTING LOAD	40
41	RCPT - HYBRID CNTRL RM	900	*20	1	C	20	1	-	EXISTING LOAD	42

NOTES:
* INDICATES LOAD RECOVERED TO DUE TO DEMOLITION
+ REPLACE EXISTING CIRCUIT BREAKER WITH NEW BREAKER AS INDICATED.

EXISTING PANEL: CLAB (SECTION 2) — CRITICAL

LOCATION: LAB 1097 | 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: 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	EXISTING LOAD	1920	20	1	A	20	1	720	EXISTING LOAD	44
45	EXISTING LOAD	840	20	1	B	20	1	720	EXISTING LOAD	46
47	EXISTING LOAD	1068	20	1	C	20	1	1800	EXISTING LOAD	48
49	EXISTING LOAD	168	20	1	A	20	1	720	EXISTING LOAD	50
51	EXISTING LOAD	1200	20	1	B	20	1	720	EXISTING LOAD	52
53	SPARE	-	20	1	C	20	1	360	EXISTING LOAD	54
55	EXISTING LOAD	1200	20	1	A	20	1	360	EXISTING LOAD	56
57	EXISTING LOAD	720	20	1	B	20	1	720	EXISTING LOAD	58
59	EXISTING LOAD	720	20	1	C	20	1	540	EXISTING LOAD	60
61	SPARE	-	20	1	A	20	1	360	EXISTING LOAD	62
63	EXISTING LOAD	540	20	1	B	20	1	360	EXISTING LOAD	64
65	EXISTING LOAD	540	20	1	C	20	1	360	EXISTING LOAD	66
67	EXISTING LOAD	720	20	1	A	20	1	360	EXISTING LOAD	68
69	EXISTING LOAD	360	20	1	B	20	1	-	SPARE	70
71	EXISTING LOAD	640	20	1	C	20	1	-	SPARE	72
73	EXISTING LOAD	640	20	1	A	20	1	-	SPARE	74
75	EXISTING LOAD	-	20	1	B	20	1	-	SPARE	76
77	EXISTING LOAD	540	20	1	C	20	1	-	SPARE	78
79	EXISTING LOAD	360	20	1	A	20	1	-	SPARE	80
81	EXISTING LOAD	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 | 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

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	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	0.7	10.1	7.4	0.5	26.7	74.1
DEMAND FACTOR	SEE DEMAND FACTOR TABLE					
TOTAL DEMAND LOAD	0.7	14.0	3.0	0.5	18.2	50.6
CONTINUOUS (