TMCA SOUTH CENTRAL TOWER
LEVEL 03 REFRESH

05.17.2023
PW PROJECT #147607.000

ISSUE FOR CONSTRUCTION
VOLUME 1 OF 1

The Medical Center of Aurora | Perkins&Will Perkins&Will | SALASOBRIEN expect a difference | AURORA

FACILITY	ARCHITECT	INTERIOR DESIGN	MEP	CITY OF AURORA
THE MEDICAL CENTER OF AURORA 1501 S POTOMAC ST, AURORA, CO 80012	PERKINS&WILL 475 LINCOLN ST. #100 DENVER, CO 80203 CONTACT: BRITTANY CAEL	PERKINS&WILL 475 LINCOLN ST. #100 DENVER, CO 80203 CONTACT: JOHN SMITH	SALAS O'BRIEN 9250 E COSTILLA AVE STE 220, GREENWOOD VILLAGE, CO 80112 CONTACT: JON GRANT	CITY OF THE CITY OF AURORA 15151 E. ALAMEDA PARKWAY AURORA, CO 80012 303.739.7000 (TEL)

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P00-01	PLUMBING SPECIFICATIONS	●				
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T10-01	TECHNOLOGY PLAN	●				
T10-03	TECHNOLOGY PLAN	●				
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City of Aurora Building Division
Project: *Plan Revisions*
Address: *1501 S Potomac St*
Occupancy Group: *I2*
Construction Type: *IA-Spk*
RSN: *1777501*
Permit: *24-2410546-LT*

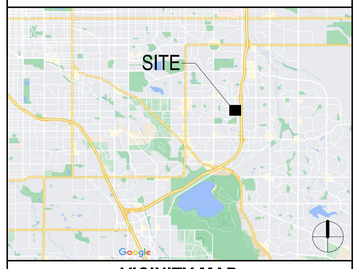
Only highlighted or clouded revisions are approved on this review. All previous comments apply.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *jlocke*
Date: *Jan 24, 2024*
2015 INTERNATIONAL CODES & 2020 NEC

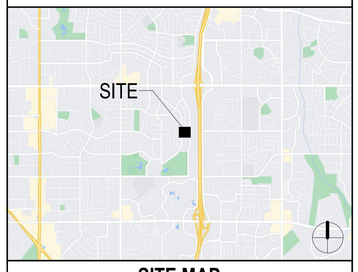
DRAWING NUMBER KEY

KEY
DISCIPLINE
G - GENERAL
A - ARCHITECTURAL
S - STRUCTURAL
P - PLUMBING
M - MECHANICAL
E - ELECTRICAL
T - TELECOMMUNICATIONS
NUMBER OF PLAN, DETAIL, ETC. ON SHEET
DRAWING SERIES
15/A11-01

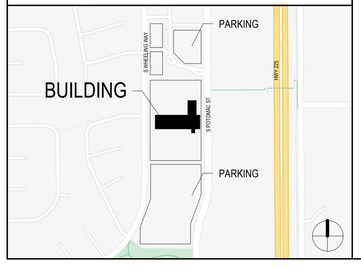
OVERALL MAP



VICINITY MAP



SITE MAP



PROJECT DATA

- **PROJECT INFORMATION:**
  LEVEL II ALTERATION:

- THIS PROJECT WILL CONSISTS OF A 17,400 SF LEVEL II ALTERATION TO LEVEL 03 OF THE SOUTH CENTRAL TOWER A ON THE MEDICAL CENTER OF AURORA CAMPUS. THIS PROJECT CONSISTS OF THE COSMETIC RENOVATION TO THE EXISTING 14 BED MEDICAL SURGICAL UNIT, THE EXISTING 8 BED MEDICAL SURGICAL UNIT, AND COSMETIC RENOVATION TO THE EXISTING 7 BED PEDIATRIC INTENSIVE CARE UNIT WHICH WILL BE RECLASSIFIED TO MEDICAL SURGICAL BEDS. EXISTING NURSE STATIONS WILL RECEIVE NEW MILLWORK AND UPDATED LIGHTING. EXISTING SUPPORT SPACES TO BE COSMETICALLY RENOVATED.

- THE EXISTING 14-BED MEDICAL SURGICAL PATIENT ROOM UNIT WILL RECEIVE COSMETIC RENOVATIONS INCLUDING NEW FLOOR, WALL, CEILING FINISHES, AND MILLWORK. THE LIGHTING FIXTURES AND CONTROLS WILL BE REPLACED. MECHANICAL DIFFUSERS, REGISTERS, AND GRILLS WILL BE REFRESHED. EXISTING RECEPTACLES WILL REMAIN BUT THE FACEPLATE WILL BE REPLACED.

- THE 7 EXISTING PICU PATIENT ROOMS WILL BE CONVERTED INTO ADULT MEDICAL SURGICAL ROOMS AND RECEIVE COSMETIC RENOVATIONS INCLUDING NEW FLOOR, WALL, CEILING FINISHES, AND MILLWORK. THE LIGHTING FIXTURES WILL REMAIN. MECHANICAL DIFFUSERS, REGISTERS, AND GRILLS WILL BE REFRESHED. EXISTING RECEPTACLE AND LIGHTING CONTROLS WILL REMAIN BUT THE FACEPLATE WILL BE REPLACED. THE EXISTING 8-BED MEDICAL SURGICAL PATIENT ROOM UNIT WILL RECEIVE COSMETIC RENOVATIONS INCLUDING NEW FLOOR, WALL, CEILING FINISHES, AND MILLWORK. THE EXISTING SLIDING DOORS WILL REMAIN. THE LIGHTING FIXTURES AND CONTROLS WILL BE REPLACED. THESE ROOMS HAVE EXISTING PATIENT CARE UNITS WITH PIVOTING TOILETS WHICH WILL BE REPLACED IN KIND WITH AN UPDATED FIXTURE. MECHANICAL DIFFUSERS, REGISTERS, AND GRILLS WILL BE REFRESHED. EXISTING RECEPTACLE AND LIGHTING CONTROLS WILL REMAIN BUT THE FACEPLATE WILL BE REPLACED.

  - ALTERNATE NO. 1 – MECHANICAL ALTERNATE

    1. BASE BID: BASE MECHANICAL SCOPE OR WORK INCLUDES THE REMOVAL OF ALL CEILING DEVICES INDICATED ON PLAN AND REPLACING/REINSTALLING THEM IN THE NEW/REPLACED CEILING ONLY. ALL OTHER WORK INDICATED ON THE MECHANICAL PLANS SHALL BE PRICED SEPARATELY AS ALTERNATE #1
    2. ALTERNATE: THE INTENT OF THIS MECHANICAL ALTERNATE IS TO ELIMINATE THE EXISTING UNIT VENTILATORS AND CONSTANT VOLUME REHEAT COILS SERVING THE PATIENT ROOMS AND REPLACE THEM WITH NEW 4-PIPE FAN COIL UNITS IN THE CEILING. THE CENTRAL SUPPLY DUCT SHALL BE CONVERTED TO A 100% OUTDOOR AIR UNIT TO PROVIDE VENTILATION AIR TO THE RETURN PLENUM OF THE FAN COIL UNITS. OUTSIDE AIR IS PROVIDED BY EXISTING OUTDOOR AIR UNIT ON THE ROOF. THE CAVITY REMAINING AFTER REMOVAL OF THE EXISTING UNIT VENTILATORS WILL BE INFILLED WITH AN INTERIOR PARTITION AS INDICATED ON THE ARCHITECTURAL DRAWINGS
    3. PROVIDE NEW EQUIPMENT BRANCH PANELBOARD TO SUPPORT NEW MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS.

  - ALTERNATE NO. 2 – "ROOM PLUS" I-PAD ROOM SIGNAGE

    1. BASE BID: CODE REQUIRED ROOM SIGNAGE.
    2. ALTERNATE: "ROOM PLUS" I-PAD ROOM SIGNAGE AT PATIENT ROOMS, IN ADDITION TO BASE SCOPE.

- **CODES/ LAWS:**
  CITY OF **AURORA:**
  2015 INTERNATIONAL BUILDING CODE (IBC)
  2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
  2014 NATIONAL ELECTRICAL CODE (NEC)
  2015 INTERNATIONAL MECHANICAL CODE (IMC)
  2015 INTERNATIONAL PLUMBING CODE (IPC)
  2015 INTERNATIONAL FIRE CODE (IFC)
  2015 INTERNATIONAL FUEL AND GAS CODE (IFGC)
  2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
  2009 ICC/ANSI A117.1 ACCESSIBLE USABLE BUILDINGS AND FACILITIES

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

  FEDERAL:
  2010 AMERICANS WITH DISABILITIES ACT GUIDELINES

- **OCCUPANCY CLASSIFICATION:**
  2015 IBC - GROUP I-2 (SECTION 308)
  2012 NFPA 101 EXISTING **HEALTHCARE** OCCUPANCY (CHAPTER **18**)

- **CONSTRUCTION TYPE:**
  EXISTING: SBC - TYPE 1A, UNRESTRAINED, FULLY SPRINKLERED
  NEW: 2015 IBC - TYPE 1-A, FULLY SPRINKLERED

- **ALLOWABLE HEIGHT AND BUILD, AREAS:**
  SCOPE OF WORK DOES NOT IMPACT BUILDING HEIGHT OR BUILDING AREA

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PROJECT
The Medical Center of Aurora
TMCA SOUTH CENTRAL TOWER LEVEL 03 REFRESH

ISSUE FOR CONSTRUCTION 05.17.2023

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
7	ADDENDUM #5	01.04.24
6	ADDENDUM #4	11.30.23
5	ADDENDUM #3	05.17.23
4	RFI 51	03.09.23
3	ADDENDUM #2	03.13.23
2	DFPC Revision #1	01.10.23
1	FGI REVIEW 1	09.16.22

Job Number 147607.000

TITLE
INDEX OF DRAWINGS

SHEET NUMBER
G00-01

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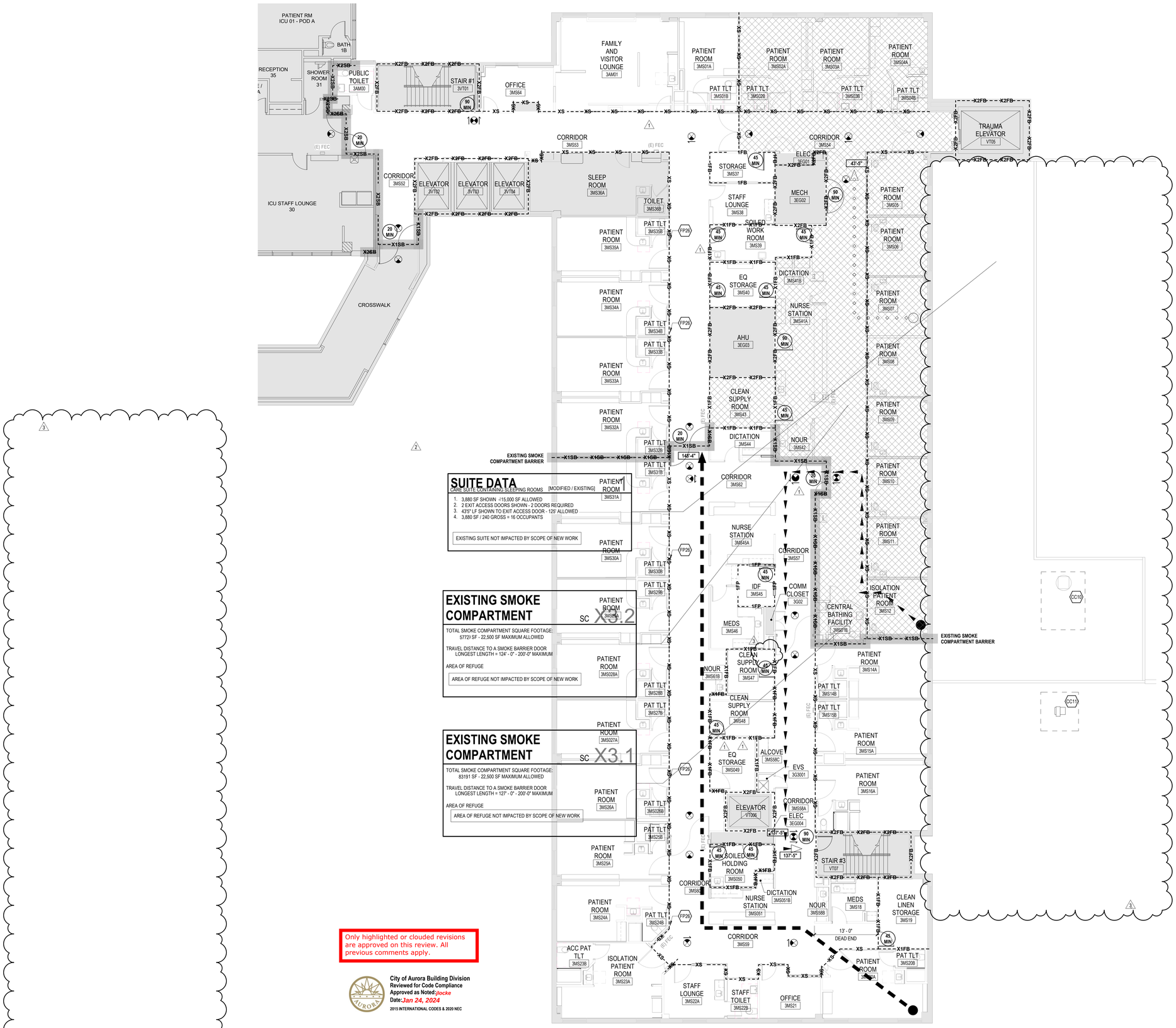

SUITE DATA

CORE SUITE CONTAINING SLEEPING ROOMS [MODIFIED / EXISTING]

1. 3,880 SF SHOWN -/15,000 SF ALLOWED
2. 2 EXIT ACCESS DOORS SHOWN - 2 DOORS REQUIRED
3. 435'-5" LF SHOWN TO EXIT ACCESS DOOR - 125' ALLOWED
4. 3,880 SF / 240 GROSS = 16 OCCUPANTS

EXISTING SUITE NOT IMPACTED BY SCOPE OF NEW WORK

EXISTING SMOKE COMPARTMENT SC X3.2

TOTAL SMOKE COMPARTMENT SQUARE FOOTAGE:
57721 SF - 22,500 SF MAXIMUM ALLOWED

TRAVEL DISTANCE TO A SMOKE BARRIER DOOR
LONGEST LENGTH = 124' - 0" - 200'-0" MAXIMUM

AREA OF REFUGE

AREA OF REFUGE NOT IMPACTED BY SCOPE OF NEW WORK

EXISTING SMOKE COMPARTMENT SC X3.1

TOTAL SMOKE COMPARTMENT SQUARE FOOTAGE:
83191 SF - 22,500 SF MAXIMUM ALLOWED

TRAVEL DISTANCE TO A SMOKE BARRIER DOOR
LONGEST LENGTH = 127' - 0" - 200'-0" MAXIMUM

AREA OF REFUGE

AREA OF REFUGE NOT IMPACTED BY SCOPE OF NEW WORK

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1 LEVEL 03
1/8" = 1'-0"

CODE COMPLIANCE PLAN GENERAL NOTES

1. FIRE EXTINGUISHER CABINETS ARE EXISTING TO REMAIN.
2. PIPES LOCATED IN VERTICAL PIPE CHASES (PIPES NOT IN VERTICAL SHAFTS) SHALL BE FIRE-STOPPED AT EACH FLOOR WITH PENETRATION FIRESTOP SYSTEM OF RATING COMMENSURATE WITH THE FLOOR ASSEMBLY RATING.
3. REFER TO HVAC DRAWINGS FOR SMOKE, FIRE AND SMOKE/ FIRE DAMPER LOCATIONS.
4. REFER TO ELECTRICAL DRAWINGS FOR LOCATION AND QUANTITY OF SMOKE DETECTORS.
5. EXIT SYMBOL ONLY IDENTIFIES REQUIRED EXITS. EXIT SIGN LOCATIONS ARE TO BE COORDINATED WITH INTERIOR DESIGN, RCP, AND ELECTRICAL ENGINEER. EXIT SIGNS ARE EXISTING TO REMAIN.

RENOVATION PROJECTS

11. THESE DRAWINGS WERE DEVELOPED FROM EXISTING DRAWINGS FURNISHED BY THE OWNER.
12. LOCATIONS OF EXISTING SMOKE COMPARTMENTS SHOWN OUTSIDE OF THE PROJECT SCOPE OF WORK WERE FURNISHED BY THE OWNER AND ARE FOR REFERENCE ONLY.
13. VERIFY EXISTING DOORS AND PARTITIONS IN WORK AREA ARE FIRE AND / OR SMOKE-RATED AS INDICATED ON THE LIFE SAFETY PLANS.
14. EXISTING WALLS AND OPENING SHOWN WITH NEW FIRE-RESISTANCE RATINGS SHALL BE UPGRADED TO THE NEW RATING, INCLUDING PROTECTING ALL OPENINGS AND PROPERLY SEALING ALL PENETRATIONS IN THE PARTITION.

CODE COMPLIANCE PLAN LEGEND

XS	EXISTING NON-FIRE-RATED SMOKE PARTITION
X1SB	EXISTING SMOKE BARRIER "FOR COMPARTMENTATION". 1-HOUR MIN FIRE RATING
X2SB	EXISTING SMOKE BARRIER "FOR COMPARTMENTATION". 2-HOUR MIN FIRE RATING
1FP	1-HOUR FIRE PARTITION
X1FP	EXISTING 1-HOUR FIRE PARTITION
X1FB	EXISTING 1-HOUR FIRE BARRIER
X2FB	EXISTING 2-HOUR FIRE BARRIER
2HR	2-HOUR FIRE BARRIER
	NON FIRE-RATED, NON SMOKE-RESISTANT PARTITION
	EXIT OR EXIT ACCESS
(E) FEC	EXISTING FIRE EXTINGUISHER & CABINET
(E) FEC	EXISTING FIRE EXTINGUISHER SURFACE MOUNTED
20 MIN	FIRE RATING OF DOOR IN MINUTES
	EXISTING TO REMAIN, REFERENCE ENTIRE DOCUMENT FOR ADDITIONAL WORK IN THIS AREA
	SLEEPING SUITE
148'-4"	LONGEST TRAVEL ROUTE TO A SMOKE COMPARTMENT
137'-5"	LONGEST TRAVEL ROUTE TO AN EXIT
151'-9"	LONGEST TRAVEL ROUTE TO A SUITE
MHO	MAGNETIC HOLD OPEN
	SHAFT OPENINGS

EXIT NUMBER AND ARRANGEMENT FOR LEVEL 03

GREATEST TRAVEL DISTANCE TO AN EXIT: (FROM ANY POINT IN A ROOM)
105' - 1" PROPOSED - 200' - 0" ALLOWED

MINIMUM NUMBER OF EXITS REQUIRED:
2 PROVIDED - 2 REQUIRED

MAXIMUM DEAD END LENGTH:
13' - 0" PROPOSED - 20' - 0"MAXIMUM

COMMON PATH OF TRAVEL
19' - 5" PROPOSED - 75' - 0"MAXIMUM

CODE COMPLIANCE PLAN NOTES BY NUMBER

<<< Indicates Sheet Keynote on Plan

CC10	EXISTING EXHAUST FAN
CC11	NEW EXHAUST FAN. REF: MECHANICAL
FP26	REMOVE EXISTING FIRE DAMPERS WHEN NECESSARY

CUMMULATIVE OCCUPANT LOAD CALCULATION FOR LEVEL 03

NOTE: THIS PROJECT DOES NOT IMPACT THE EXISTING OCCUPANCY LOADS

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05.17.2023

PROJECT

Health ONE The Medical Center of Aurora

TMCA SOUTH CENTRAL TOWER LEVEL 03 REFRESH

ISSUE FOR CONSTRUCTION 05.17.2023

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
3	ADDENDUM #5	01.04.24
2	ADDENDUM #2	03.13.23
1	DFPC Revision #1	01.10.23

Job Number 147607.000

TITLE

CODE COMPLIANCE PLAN - LEVEL 03

SHEET NUMBER

G01-03

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RCP GENERAL NOTES

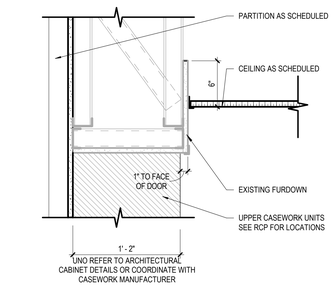
1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL CEILING MOUNTED ITEMS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
2. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, NURSE CALL DOME LIGHTS, EXIT LIGHT, AND FIRE ALARM DEVICES.
3. SPRINKLER HEAD LOCATIONS ARE NOT SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS. (BUILDING IS TO BE "FULLY SPRINKLERED") PER NFPA 13 AND OWNER'S INSURANCE COMPANY'S REQUIREMENTS.
4. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
5. VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. WHERE APPLICABLE, ACCESS PANEL SHALL MEET THE UL DESIGN CRITERIA OF THE RATED CEILING.
6. WHERE EXISTING LAY-IN CEILINGS ARE TO REMAIN, THE CONTRACTOR SHALL REPLACE ANY TILE THAT HAS BEEN DAMAGED WITH MATERIALS THAT MATCH THE EXISTING FOR COLOR, TEXTURE, PATTERN, ETC. IF UNIFORMITY CANNOT BE ACHIEVED, THE CONTRACTOR SHALL REPLACE THE ENTIRE CEILING WITHIN THE SPACE WITH NEW MATERIAL.
7. CENTER LIGHTS AND CEILING GRID WITHIN ROOMS UNLESS INDICATED OTHERWISE. NOTIFY ARCHITECT PRIOR TO GRID INSTALLATION IF THIS WILL RESULT IN CEILING PANELS LESS THAN 6" IN ANY DIRECTION.

RCP LEGEND

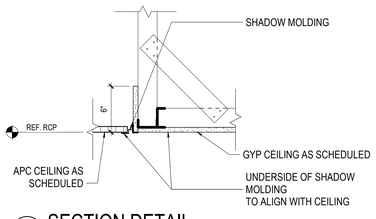
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- DECORATIVE PENDANT
- NEW RECESSED DOWN LIGHT / EXISTING RECESSED DOWN LIGHT
- NEW RECESSED LIGHT FIXTURE
- EXISTING RECESSED LIGHT FIXTURE TO REMAIN
- SUSPENDED LINEAR FIXTURE
- SHOWER DOME LIGHT (BY SHOWER MANUFACTURER)
- SUSPENDED 2' X 2' ACOUSTICAL CEILING SYSTEM
- C.J. CONTROL JOINT
- Ref XX/AX-XX CEILING DETAIL / SECTION TAG
- EXISTING EXPANSION JOINT
- 8' - 0" AFF CEILING HEIGHT DESIGNATION PER AREA. WHERE NO HEIGHT IS DESIGNATED, ASSUME 8'-0"
- GYPSUM BOARD FURR DOWN OVER WALL CABINET OR LOCKER REFERENCE CEILING DETAILS. REF TO DETAL 03/A12-03
- GYPSUM BOARD CEILING
- ES EXPOSED STRUCTURE
- OUT OF SCOPE
- SHOWER CURTAIN ROD

RCP NOTE BY NUMBER

⬡	<<< Indicates Sheet Keynote on Plan
RCP20	HALF DOME SAFETY MIRROR



3 SECTION DETAIL
1 1/2" = 1'-0" | FURR DOWN OVER CABINETS



2 SECTION DETAIL
1 1/2" = 1'-0" | GYP TO APC CEILING TRANSITION

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1 REFLECTED CEILING PLAN LEVEL 03
1/8" = 1'-0"

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TMCA SOUTH
CENTRAL TOWER
LEVEL 03 REFRESH

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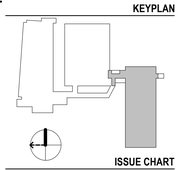
KEYPLAN



ISSUE CHART

MARK	ISSUE	DATE
1	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE
REFLECTED CEILING PLAN - LEVEL 03

SHEET NUMBER
A12-03

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MECHANICAL ABBREVIATIONS

AAV	AUTOMATIC AIR VENT (VALVE)
AB	AIR BLENDER
AC	AIR CONDITIONING UNIT OR AIR COMPRESSOR
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AF	AIR FILTER
AFC	AUTOMATIC FLOW CONTROL DEVICE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AMP	AMPERE
AMS	AIR FLOW MEASURING STATION
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT/ARCHITECTURAL
AS	AIR SEPARATOR
AUTO	AUTOMATIC
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BD	BALANCING DAMPER
BDD	BACK-DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CC	COOLING COIL
CCW	COUNTER CLOCKWISE
CD	CONDENSATE DRAIN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CL	CENTER LINE
CO	CLEAN OUT OR CARBON MONOXIDE
CONT	CONTINUOUS, CONTINUATION
CP	COIL PUMP
CT	COOLING TOWER
CU	CONDENSING/ER UNIT
CU FT	CUBIC FEET
CV	CONSTANT AIR VOLUME
CW	COLD WATER OR CLOCKWISE
D	DRAIN
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DE	DRYER EXHAUST
DER	DRYER EXHAUST RISER
DEG.F	DEGREE FARENHEIT
DG	DOOR GRILLE
DIA	DIAMETER
DIFF	DIFFUSER
DISCH	DISCHARGE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
E	EXHAUST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD HEATER
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CABINET HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL-WATER SOLUTION (% GLYCOL BY VOLUME)
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRIC/ELECTRICAL
EL/ELEV	ELEVATION
ENT	ENTERING
EQUIP OR EQT	EQUIPMENT
E/RF	EXHAUST/RETURN FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
F	FILTER
°F	DEGREE FARENHEIT
FA	FREE AREA
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPB	FAN POWERED TERMINAL UNIT
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
F/SD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET OR FLASH TANK
FTR	FIN TUBE RADIATION (HOT WATER)
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GD	GRAVITY DAMPER
GEN	GENERAL
GE	GENERAL EXHAUST
GER	GENERAL EXHAUST RISER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HORIZ	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HTG	HEATING
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IN OR "	INCH
INSUL.	INSULATION
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KE	KITCHEN EXHAUST
KER	KITCHEN EXHAUST RISER
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LL	LOW LIMIT OR LANDLORD
LP	LOW PRESSURE GAS
LRA	LOCKED ROTOR AMPERES
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM OR MINUTE(S)
MD	MOTORIZED DAMPER
MP	MEDIUM PRESSURE GAS
NC	NORMALLY CLOSE OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NK	NECK
NO	NORMALLY OPEN
NO OR #	NUMBER
NR	NOT REQUIRED
NTS	NOT TO SCALE
NV	NATURAL VENTILATION
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OV	OUTLET VELOCITY OR OVAL
P	PUMP
CTP	COOLING TOWER PUMP
CWP	CONDENSER WATER PUMP
PC	PLUMBING CONTRACTOR
PCD	PUMPED CONDENSATE DISCAHRGE
PG	PROPYLENE GLYCOL-WATER SOLUTION (%GLYCOL BY VOLUME)
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
R	RETURN OR RISER
RA	RETURN AIR
REQ'D	REQUIRED
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE (VENT) OR ROOF VENTILATOR
S	SUPPLY
SA	SOUND ATTENUATOR
SF	SUPPLY FAN OR SQUARE FEET
SHT	SHEET
SL	SENSIBLE LOAD
SP	STATIC PRESSURE
SPECS	SPECIFICATIONS
SQ	SQUARE
SQ.FT.	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STRUC	STRUCTURE/STRUCTURAL
T	THERMOSTAT/TEMPERATURE SENSOR
TD	TEMPERATURE DIFFERENCE OR TRANSFER DUCT
TEF	TOILET EXHAUST FAN
TER	TOILET EXHAUST RISER
TEMP	TEMPERATURE
TO	TRANSFER OPENING
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDER-CUT (DOOR)
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VSD	VARIABLE SPEED DRIVE
W	WATT
W/	WITH
WC	WATER COLUMN
WFD	WATER PRESSURE DROP
WMS	WIRE MESH SCREEN
WT	WEIGHT
XA	VARIABLE LENGTH ACCESS

SOUND ATTENUATOR

UC OR DG — DG: DOOR GRILLE; UC: DOOR UNDERCUT

T — THERMOSTAT

T — THERMOSTAT MOUNTED TO THERMOISOLATING PAD IF ON EXTERIOR COLUMN

T — DUCT MOUNTED THERMOSTAT

H — HUMIDISTAT

SD — SMOKE DETECTOR

CD — CARBON MONOXIDE DETECTOR

CO2 — CARBON DIOXIDE DETECTOR

N.I.C. - FUTURE TENANT BUILDOUT

REQUIRED MAINTENANCE CLEARANCE

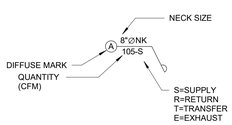
IDENTIFICATION SYMBOLS

X — KEYED NOTE TAG

X / X — EQUIPMENT TAG; EQUIPMENT TAG NO.

X / M-X — SECTION NUMBER; DRAWING ON WHICH SECTION IS SHOWN

AIR DEVICES DATA TAG



DUCTWORK SYMBOLS

DOUBLE LINE

(E)12X12 — EXISTING DUCT

EXISTING DUCT OR ITEM TO BE REMOVED

EXISTING DUCT OR ITEM TO REMAIN

BRANCH TAKE-OFF

RADIUS ELBOW

SQUARE TAP COLLAR

RADIUS TEE

BELLMOUTH CONNECTION TO RECT. DUCT

CONICAL TEE

WYE OR TEE

EXHAUST/RETURN AIR DEVICE

24X12 — RECT. DUCT DIMENSIONS (SIZE IN INCHES. FIRST DIM. IS SHOWN)

24Ø — ROUND DUCT DIMENSIONS DIAMETERS

24/12 — FLAT OVAL (SIZE IN INCHES) (FIRST DIM. IS SHOWN)

DUCT TRANSITION

ELBOW TURNED DOWN

ROUND DUCT DN

SUPPLY AIR DUCT

EXHAUST AND RETURN DUCT

OUTSIDE AIR INTAKE

FLEX. DUCT CONNECTION

FD — FIRE DAMPER

CLEAN OUT

MANUAL DAMPER

MD — MOTORIZED (AUTOMATIC) DAMPER

LLMD — LOW LEAKAGE MOTORIZED DAMPER

AD — ACCESS DOOR

CAP

DN — DUCT OFF-SET DN (IN DIRECTION OF FLOW)

UP — DUCT OFF-SET UP (IN DIRECTION OF FLOW)

FLEXIBLE DUCT

AIR TERMINAL UNIT

AIR TERMINAL UNIT W/REHEAT

PIPING SYMBOLS

(E)SERVICE — EXISTING PIPE

EXISTING PIPE OR ITEM TO BE REMOVED

EXISTING PIPE OR ITEM TO REMAIN

CD — CONDENSATE DRAIN

CWR — CHILLED WATER RETURN

CWS — CHILLED WATER SUPPLY

CTWR — COOLING TOWER WATER RETURN

CTWS — COOLING TOWER WATER SUPPLY

D — DRAIN

G — NATURAL GAS

HWR — HOT WATER HEATING RETURN

HWS — HOT WATER HEATING SUPPLY

V V — VENT

AIR SEPARATOR

DIRECTION OF FLOW ARROW

CONCENTRIC REDUCER

ECCENTRIC REDUCER

TEE

TEE TURNED DOWN

TEE TURNED UP

ELBOW 45°

ELBOW TURNED UP

ELBOW TURNED DOWN

PRESSURE GAUGE

FLANGE

CAPPED END CONNECTION

EXPANSION JOINT

FLEXIBLE CONNECTION

FM — FLOW METER

EXPANSION COMPENSATOR

BALL VALVE

PRESSURE INDEPENDANT FLOW CONTROL AND SHUT-OFF VALVE

BUTTERFLY VALVE

CHECK VALVE

HOSE END DRAIN VALVE

TRIPLE DUTY CHECK VALVE

GATE VALVE

GLOBE VALVE

MANUAL AIR VENT

M M — MOTORIZED 2-WAY OR 3-WAY CONTROL VALVE

SOLENOID VALVE

PRESSURE REDUCING VALVE

PRESSURE RELIEF VALVE

GAS COCK

PIPE UNION

STRAINER

SAFETY VALVE

VACUUM BREAKER

IN-LINE PUMP

PRESSURE GAUGE WITH COCK

THERMOMETER

FLOW SWITCH

PIPE ANCHOR

PIPE GUIDE

UNION

Y-TYPE STRAINER

Y-TYPE STRAINER WITH HOSE ENDED DRAIN VALVE

BASKET STRAINER

FILTER/DRYER

M — MOTOR ACTUATOR

T — CONDENSATE TRAP

PRESSURE-TEMPERATURE PORT

MECHANICAL SHEETS	
Sheet Number	Sheet Name
M10-00	MECHANICAL SYMBOLS, NOTES, AND ABBREVIATIONS
M10-01	MECHANICAL SPECIFICATIONS
M10-02	MECHANICAL VENTILATION SCHEDULE
M10-03	MECHANICAL SCHEDULES
M10-04	MECHANICAL HVAC DETAILS
M10-05	MECHANICAL PIPING DETAILS
M10-06	MECHANICAL HVAC PLAN
M10-07	MECHANICAL HVAC PLAN
M10-08	MECHANICAL HVAC PLAN
MD10-01	MECHANICAL HVAC DEMOLITION PLAN
MP10-01	MECHANICAL PIPING PLAN
MP10-02	REVISED LEVEL 3, 4 & 5 MECHANICAL PIPING AND RISER PLAN
MP10-03	LEVEL 1 & 2 MECHANICAL PIPING AND RISER PLAN

MECHANICAL CODE REFERENCE
LOCAL AMENDMENTS BY THE CITY OF AURORA, CO
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATION PLUMBING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE

PROJECT DESIGN CRITERIA

LOCATION: AURORA, CO
WEATHER DATA: DENVER STAPLETON, CO, USA (WMO # 724690)
LATITUDE / LONGITUDE: 39.750N / 104.867W
ELEVATION ABOVE SEA LEVEL (FT): 5288
WINTER HEATING DB (°F): -4.9
SUMMER COOLING DB / MCWB (°F): 93.9 / 60.7
INDOOR TEMPERATURES: FGI-2018 (BASED ON ASHRAE STD. 170-2017)

SCOPE OF WORK:

BASE SCOPE:
THE BASE SCOPE OF WORK INCLUDES THE REMOVAL OF ALL CEILING DEVICES INDICATED ON PLAN AND REPLACING THEM IN THE NEW/REPLACED CEILING ONLY. THE NEW GRILLES, REGISTERS, AND DIFUSERS SHALL MATCH STYLE SCHEDULED AND EXISTING THROAT SIZE. ALL OTHER WORK INDICATED ON THE MECHANICAL PLANS SHALL BE PRICE SEPERATELY AS ALTERNATE #01.

MECHANICAL ALTERNATE #1:
THE INTENT OF THIS MECHANICAL ALTERNATE IS TO ELIMINATE THE EXISITING UNIT VENTILATORS AND CONSTANT VOLUME REHEAT COILS SERVING THE PATIENT ROOMS AND REPLACE THEM WITH NEW 4-PIPE FAN COIL UNITS IN THE CEILING. THE CENTRAL SUPPLY DUCT SHALL BE CONVERTED TO A 100% OUTDOOR AIR UNIT TO PROVIDE VENTILATION AIR TO THE RETURN PLENUM OF THE FAN COIL UNITS. OUTSIDE AIR IS PROVIDED BY EXISTING OUTDOOR AIR UNIT ON THE ROOF.

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jblocke
Date: Jan 24, 2024
2015 INTERNATIONAL CODES & 2020 NEC

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AURORA, CO 80012
CONTRACTOR

PROJECT
The Medical Center of Aurora
TMCA SOUTH CENTRAL TOWER LEVEL 03 REFRESH

ISSUE FOR CONSTRUCTION 05.17.2023

100% CONSTRUCTION DOCUMENTS

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE
MECHANICAL SYMBOLS, NOTES, AND ABBREVIATIONS

SHEET NUMBER
M10-00

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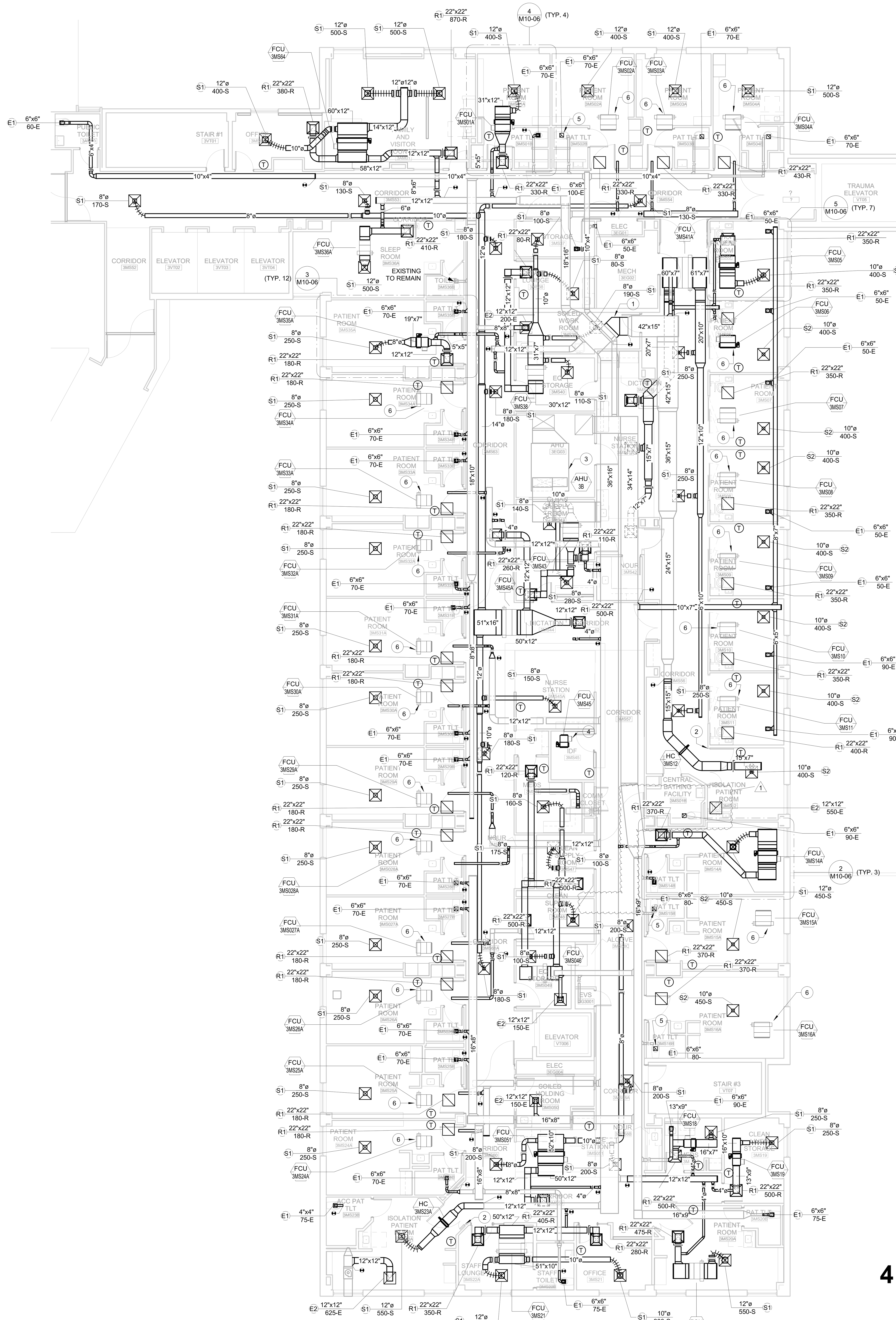
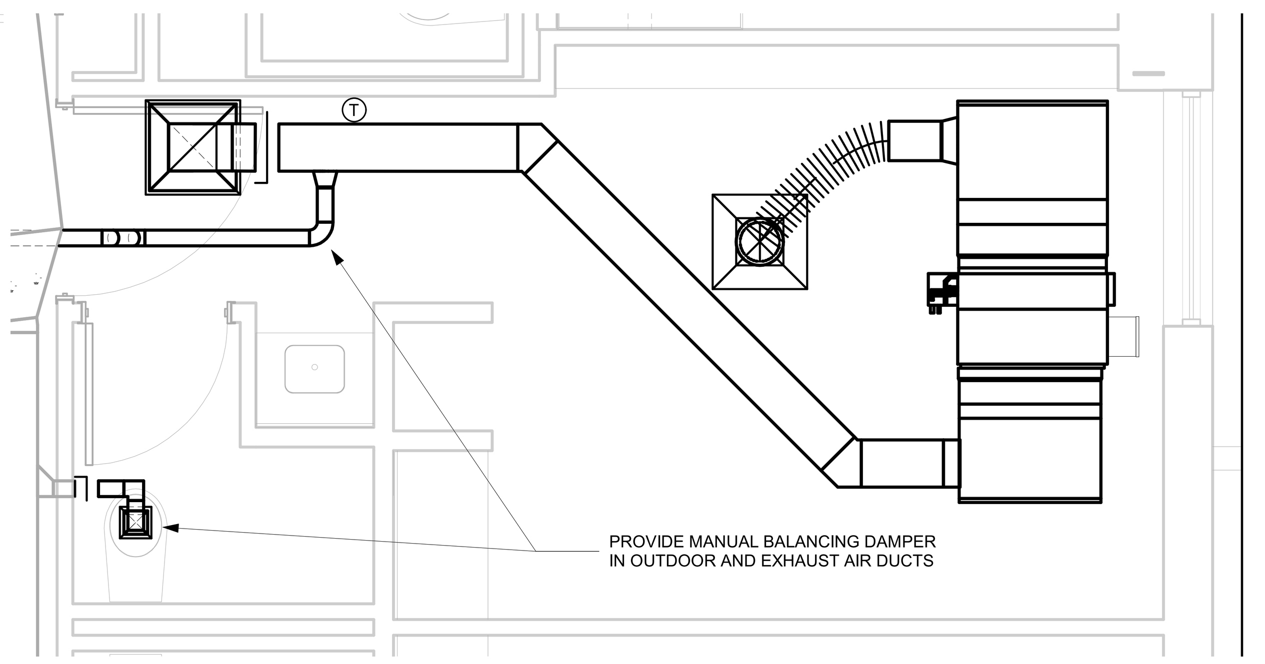
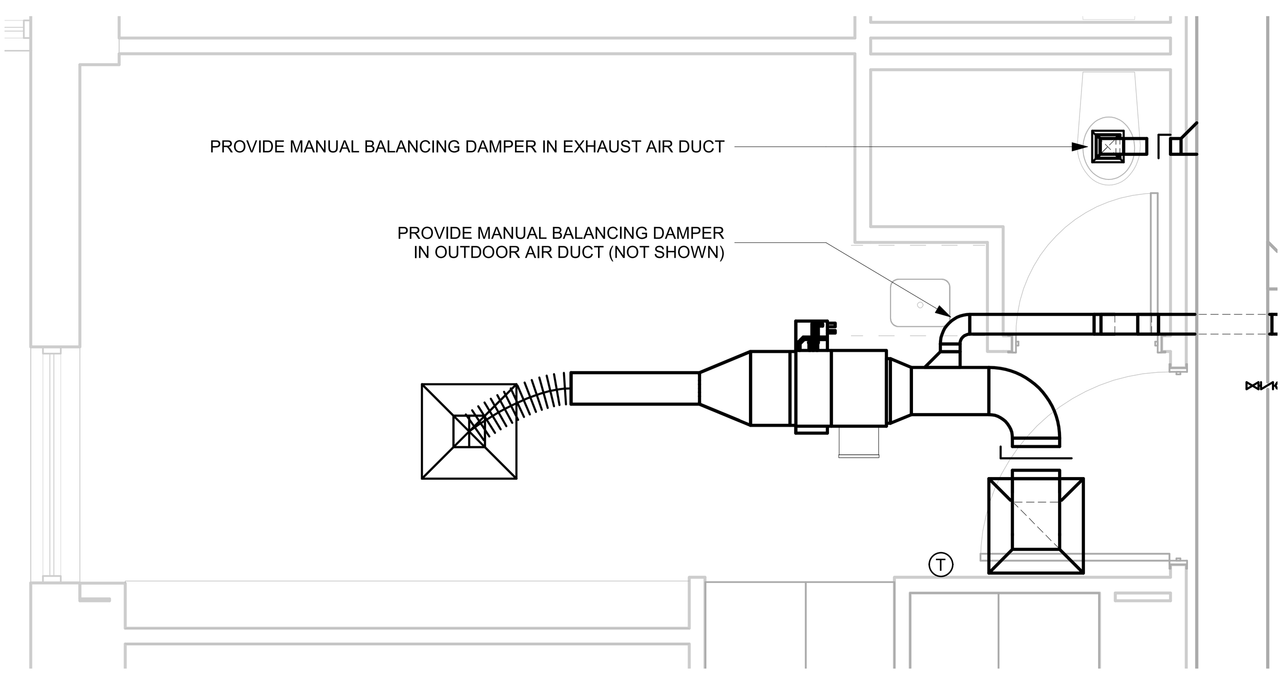


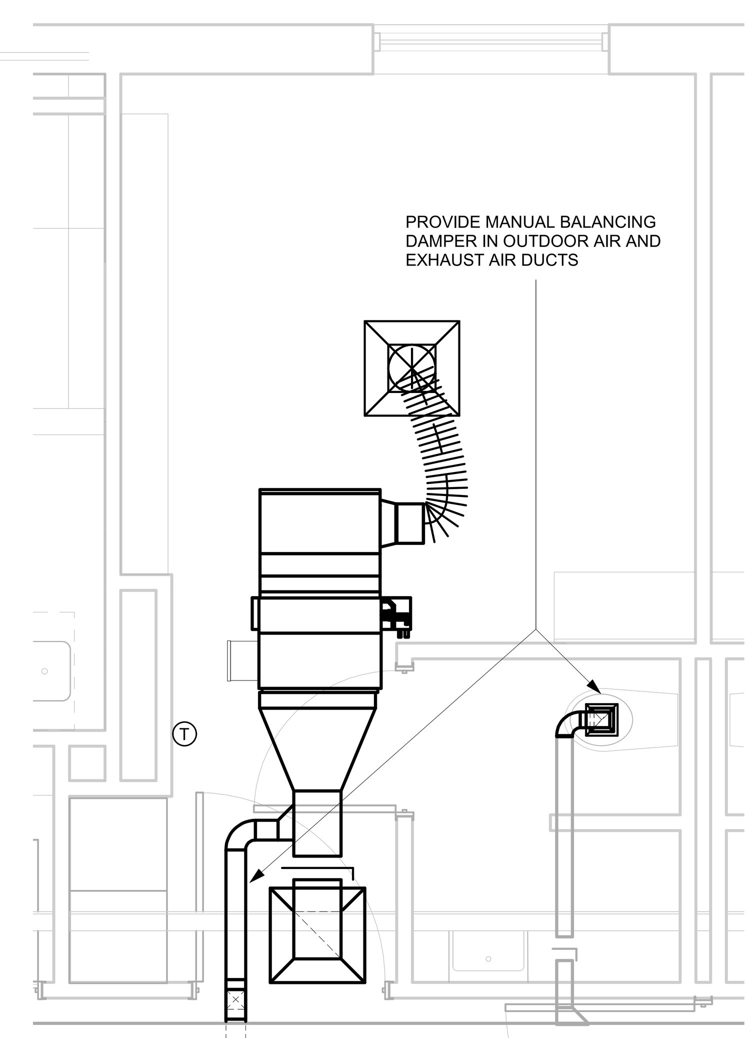
1 LEVEL 03 - MECHANICAL HVAC PLAN
1/8" = 1'-0"



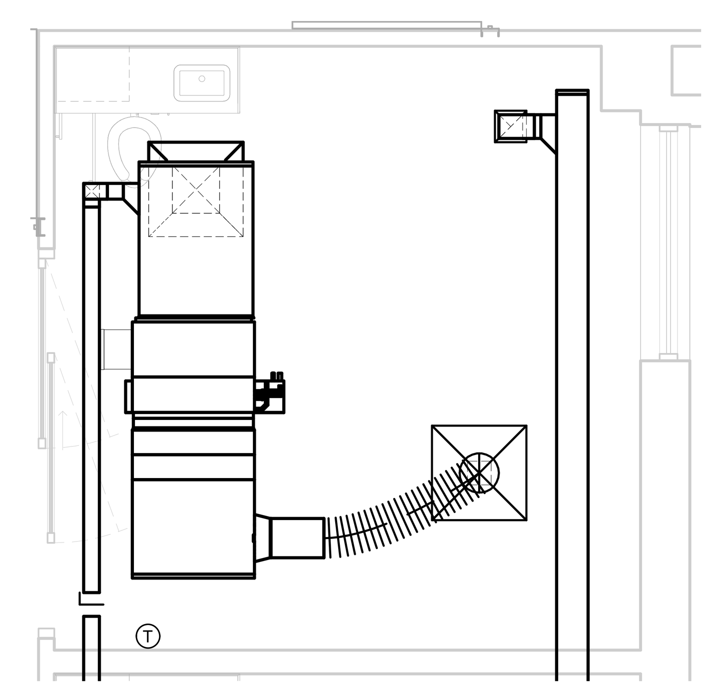
2 TYPICAL HVAC PLAN - SOUTH PATIENT ROOMS
3/8" = 1'-0"



3 TYPICAL HVAC PLAN - NORTH PATIENT ROOMS
3/8" = 1'-0"



4 TYPICAL HVAC PLAN - EAST PATIENT ROOMS
3/8" = 1'-0"



5 TYPCIAL HVAC PLAN - SCU PATIENT ROOMS
3/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M10-00 FOR LEGENDS, GENERAL NOTES, AND ABBREVIATIONS. REFER TO M10-01 FOR PROJECT SPECIFICATIONS. REFER TO M10-04 FOR MECHANICAL HVAC DETAILS.
B. AT NO TIME SHALL THE EXISTING HOSPITAL SYSTEMS BE SHUT DOWN WITHOUT PRIOR NOTICE AND APPROVAL OF THE OWNER. MINIMUM (5) DAYS NOTICE SHALL BE PROVIDED FOR ALL SYSTEM SHUTDOWNS. QUANTITY OF ANTICIPATED SYSTEM SHUTDOWNS EXPECTED TO BE LONGER THAN (4) HOURS MUST BE DISCLOSED AT THE TIME OF BID.
C. EXISTING INFRASTRUCTURE SHOWN IS BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS FOR TIE-INS AND FIT OF NEW INFRASTRUCTURE PRIOR TO RELEASING MATERIAL.
D. PROVIDE FIRE DAMPERS AS NECESSARY WHERE DUCTS PENETRATE RATED WALLS.
E. CONTRACTOR SHALL CAP AND SEAL ALL UNUSED DUCT TAPS.
F. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6 FEET IN LENGTH AT FIFTEEN PERCENT COMPRESSION.
H. BALANCE ALL NEW AND EXISITING GRILLES AND DIFFUSERS TO NOTED CFM.
I. ALL EXISTING INSULATION ACCESSIBLE DURING RENOVATION SHALL BE INSPECTED, REPAIRED, AND/OR REPLACED AS APPROPRIATE.
J. CONTRACTOR SHALL ENSURE THE DUCT SYSTEMS ARE FREE OF DEBRIS OR DUST. NEW SUPPLY DUCT SYSTEM INSTALLATIONS SHALL COMPLY WITH LEVEL "B," THE INTERMEDIATE LEVEL OF SMACNA DUCT CLEANLINESS FOR NEW CONSTRUCTION GUIDELINES.
L. SUPPLY DIFFUSERS SHALL BE OPENED AND CLEANED BEFORE THE SPACE IS INITIALLY USED.
M. CONTRACTOR SHALL PROVIDE AS-BUILT DOCUMENTATION DEPICTING NEW AND EXISTING CONDITIONS.
N. REFER TO 2/M10-06 FOR EXAMPLE HVAC PLAN ASSOCIATED WITH PATIENT ROOMS 3MS14A THROUGH 3MS15A. FAN COIL UNITS SHALL BE FULLY DUCTED TO SUPPLY AND RETURN GRD'S WITH OUTDOOR AIR CONNECTED TO RETURN DUCT WHEN APPLICABLE.
O. REFER TO 3/M10-06 FOR EXAMPLE HVAC PLAN ASSOCIATED WITH NORTH PATIENT ROOMS 3MS35A THROUGH 3MS24A.
P. REFER TO 4/M10-06 FOR EXAMPLE HVAC PLAN ASSOCIATED WITH EAST PATIENT ROOMS 3MS01A THROUGH 3MS04A.
Q. REFER TO 5/M10-06 FOR EXAMPLE HVAC PLAN ASSOCIATED WITH SCU PATIENT ROOMS 3MS05 THROUGH 3MS11.
R. REFER TO 6/M10-04 FOR FCU CONTROL DETAILS. CONTROLS PROVIDED BY JCI.

LEGEND NOTES:

1. CONNECT EXISTING AHU-3B SUPPLY DUCT TO AHU-3A RETURN DUCT. CONTRACTOR TO INSPECT, REPAIR, AND/OR REPLACE INSULATION ON AHU-3A RETURN DUCT. ANY SECTIONS WITHOUT INSULATION SHOULD BE INSULATED ACCORDING TO THE MECHANICAL SPECIFICATIONS.
2. AIRBORNE INFECTION ISOLATION (AII) ROOMS SHALL HAVE A PERMANENTLY INSTALLED DEVICE AND/OR MECHANISM TO CONSTANTLY MONITOR THE DIFFERENTIAL AIR PRESSURE BETWEEN THE ROOM AND THE CORRIDOR. A LOCAL VISUAL MEANS SHALL BE PROVIDED TO INDICATED WHENEVER A NEGATIVE DIFFERENTIAL PRESSURE OF 0.01 IN. OF WATER OR GREATER ACROSS THE ENVELOPE IS NOT MAINTAINED. SEE MECHANICAL SPECIFICATIONS FOR ACCEPTABLE MANUFACTURER(S) AND REQUIREMENTS.
3. PROVIDE NEW PREMIUM EFFICIENCY ODP OR TEFC MOTOR, FAN SHEAVES, BELT(S), AND SAFETY COVER. REPLACE EXISTING CHILLED WATER PNEUMATIC CONTROL VALVE WITH NEW ELECTRIC CONTROL VAVLE.
4. CONNECT ALL EQUIPMENT SERVING AII AND IDF ROOMS REQUIRED TO MAINTAIN SPACE VENTILATION AND PRESSURE RELATIONSHIP REQUIREMENTS TO EMERGENCY POWER SYSTEM.
5. TIE-IN NEW BATHROOM EXHAUST GRILLE TO NEAREST EXHAUST SEE DETAILS 2 THROUGH 5 ON M10-06 FOR EXAMPLE CONNECTIONS. PROVIDE NEW MANUAL BALANCING DAMPER OR REUSE EXISTING.
6. FAN COIL UNITS SHALL BE FULLY DUCTED TO SUPPLY AND RETURN GRD'S ~~WITH OUTDOOR AIR CONNECTED TO RETURN DUCT AS SHOWN.~~
7. REMOVED IN ADDENDUM #5.

1

City of Aurora Building Division
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CONTRACTOR

PROJECT

HealthONE The Medical Center of Aurora

TMCA SOUTH CENTRAL TOWER LEVEL 03 REFRESH

ISSUE FOR CONSTRUCTION 05.17.2023

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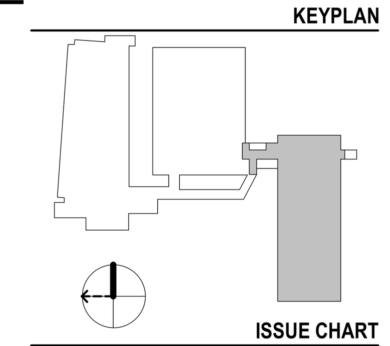
KEYPLAN



ISSUE CHART

MARK	ISSUE	DATE
1	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE

MECHANICAL HVAC PLAN

SHEET NUMBER

M10-06

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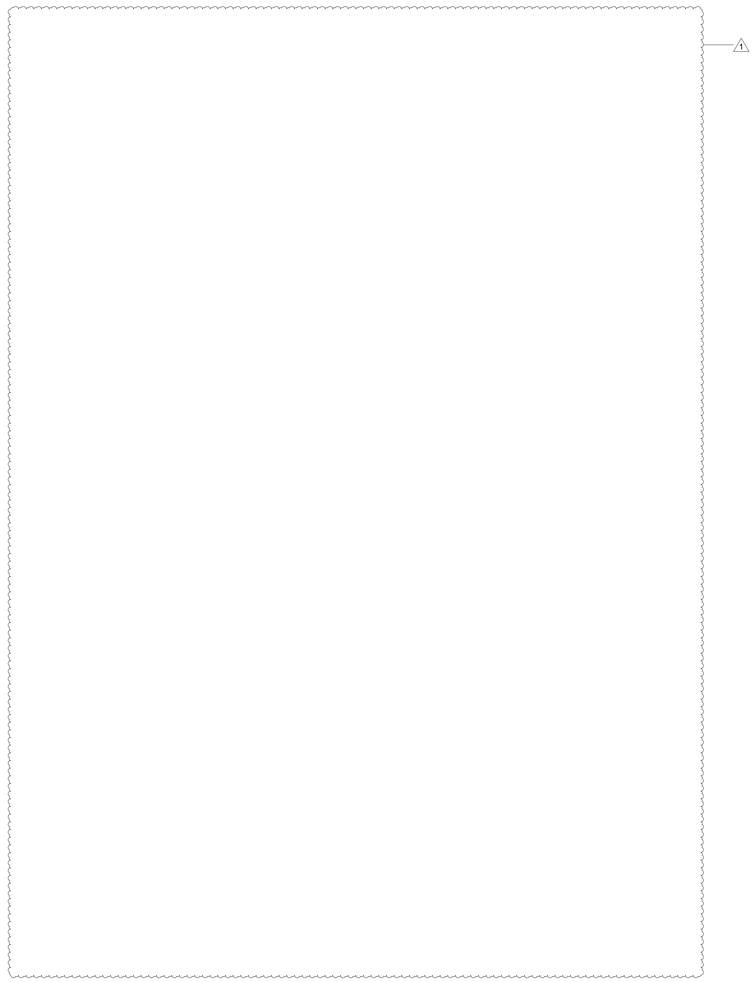
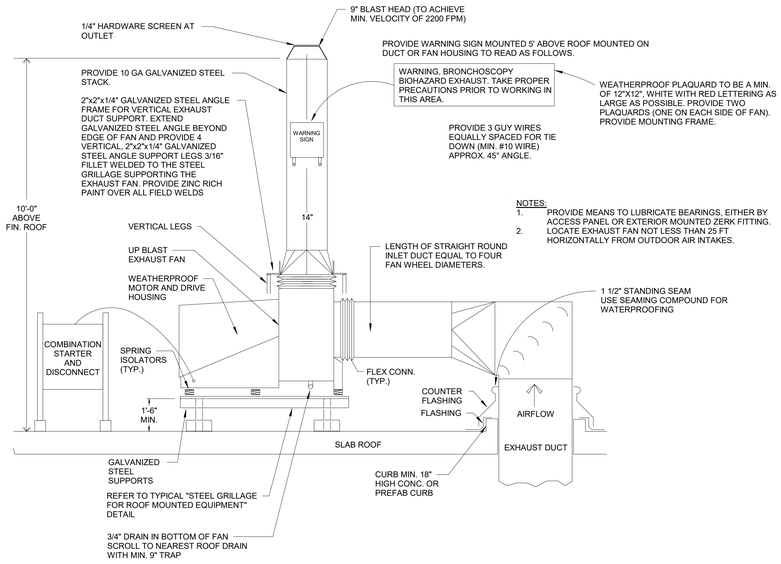
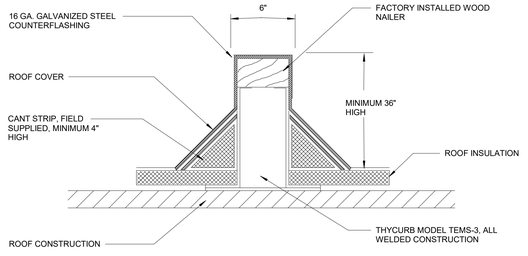




3 HCA - ROOF MOUNTED VENT SET
NOT TO SCALE



NOTE-1: CURB SHALL BE TAPERED TYPE AND MATCH THE PITCH OF THE ROOF.

NOTE-2: PROVIDE ALL CUTTING, INSTALLATION AND PATCHING WORK OF EXISTING ROOF SYSTEMS.

4 ROOF CURB - EQUIPMENT SUPPORT DETAIL1
NOT TO SCALE

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ISSUE CHART

MARK	ISSUE	DATE
1	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE

MECHANICAL HVAC PLAN

SHEET NUMBER

M10-07

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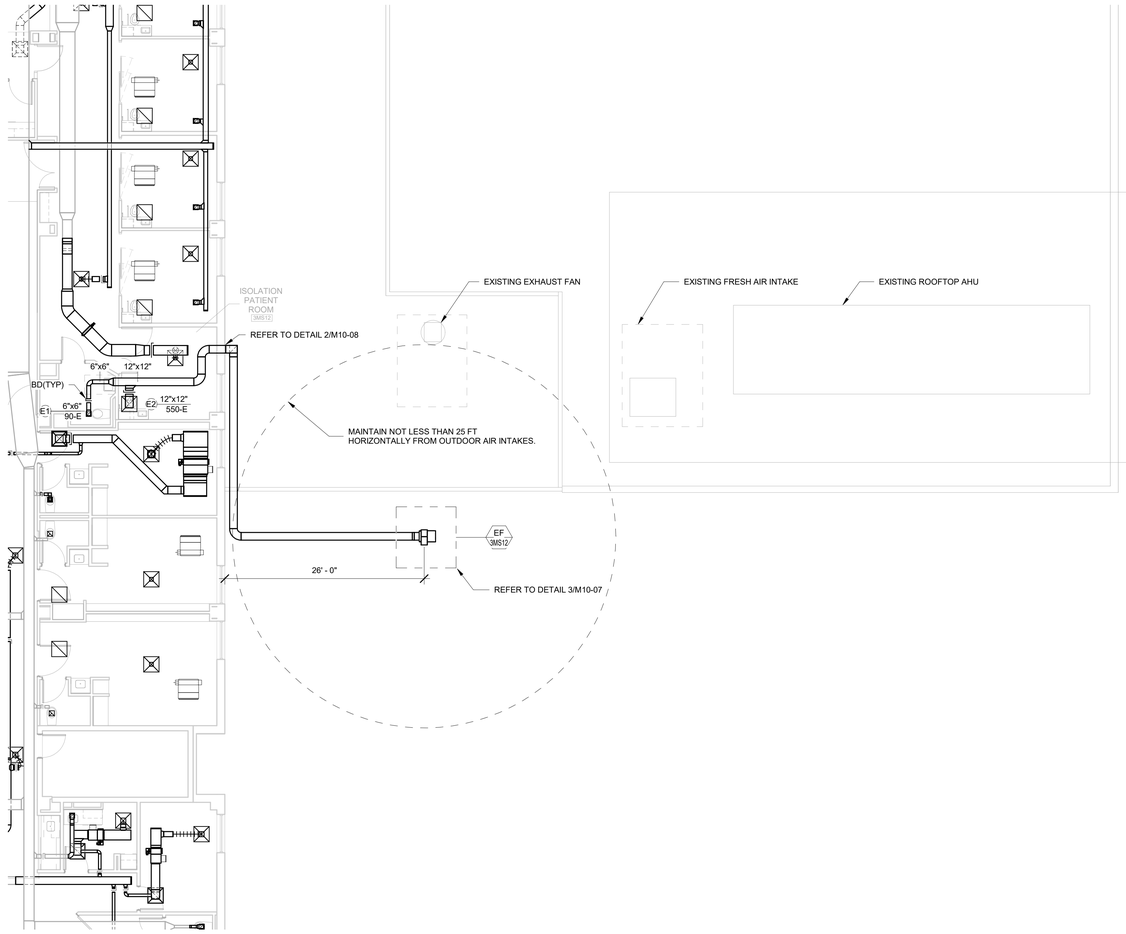
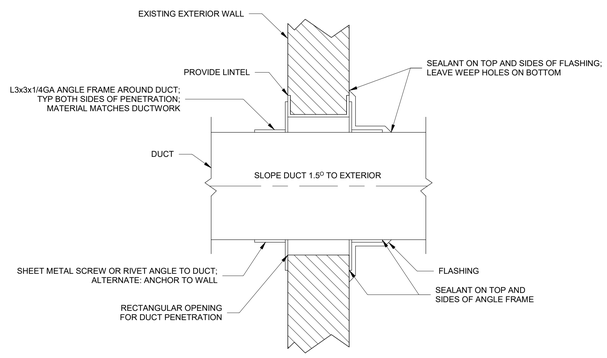


1 LEVEL 03 - ISOLATION PATIENT ROOM 3MS12 EXHAUST PLAN

1/8" = 1'-0"



2 NON-RATED DUCT THROUGH EXTERIOR WALL PENETRATION

NOT TO SCALE

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

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *jlocke*
Date: *Jan 24, 2024*
2015 INTERNATIONAL CODES & 2020 NEC

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AURORA, CO 80012

CONTRACTOR

PROJECT

Health ONE The Medical Center of Aurora

TMCA SOUTH
CENTRAL TOWER
LEVEL 03 REFRESH

100% CONSTRUCTION DOCUMENTS

ISSUE FOR CONSTRUCTION 05.17.2023

KEYPLAN

ISSUE CHART

MARK	ISSUE	DATE
1	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE

MECHANICAL HVAC PLAN

SHEET NUMBER

M10-08

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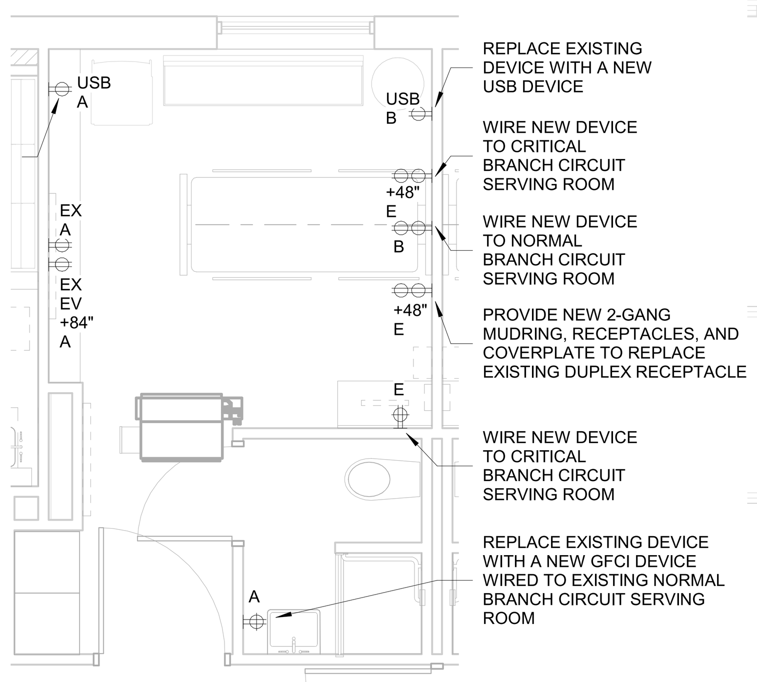
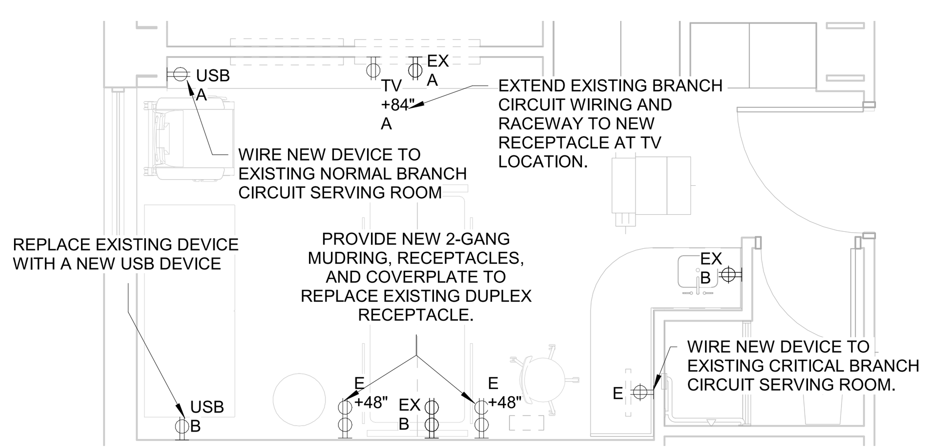
1 LEVEL 03 - ELECTRICAL POWER PLAN

1/8" = 1'-0"



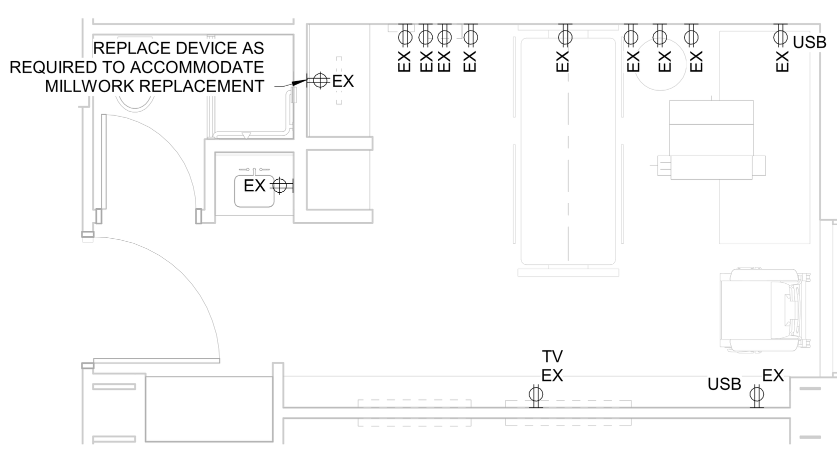
5 LEVEL 03 - ENLARGED POWER PLAN - 3MS01A

1/4" = 1'-0"



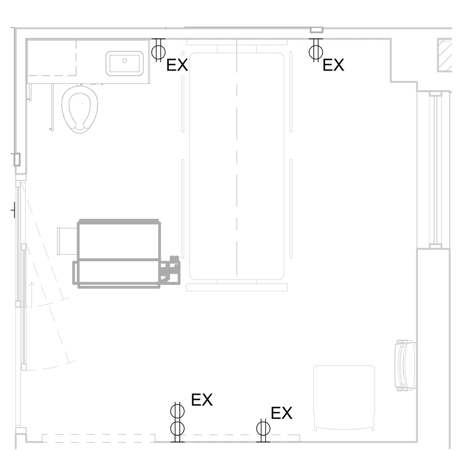
4 LEVEL 03 - ENLARGED POWER PLAN - 3MS26A

1/4" = 1'-0"



3 LEVEL 03 - ENLARGED POWER PLAN - 3MS15A

1/4" = 1'-0"



2 LEVEL 03 - ENLARGED POWER PLAN - 3MS05

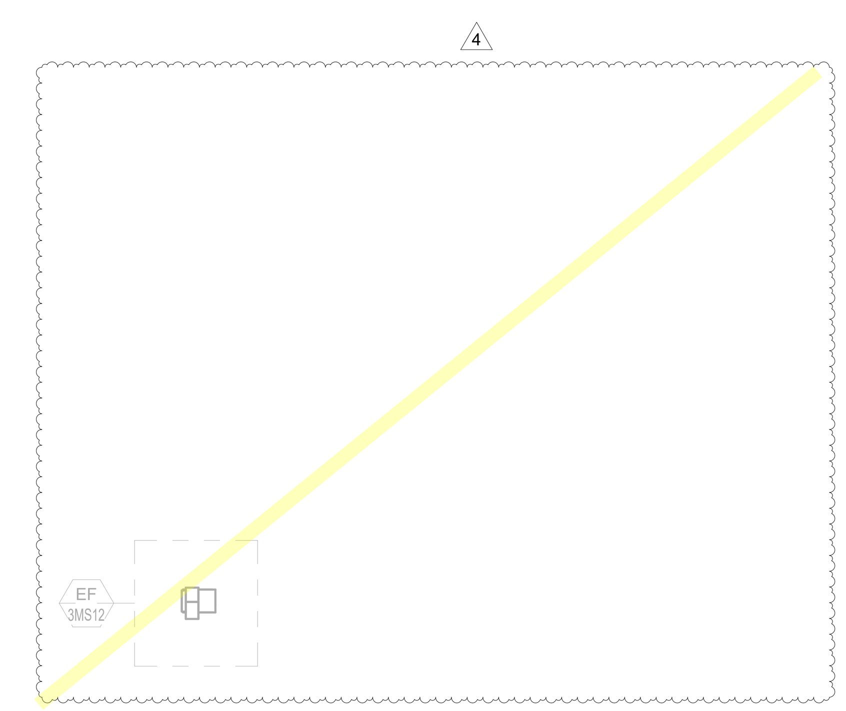
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E00-01 FOR ELECTRICAL LEGENDS, NOTES, AND ABBREVIATIONS.
2. REFER TO SHEET E00-02 FOR ELECTRICAL SPECIFICATIONS.
3. REMOVE AND RE-INSTALL EXISTING FIRE ALARM DEVICES TO ACCOMMODATE CEILING REPLACEMENT.

KEYED NOTES: #

1. EXTEND RACEWAY AND BRANCH CIRCUIT WIRING TO NEW DEVICE LOCATED IN MILLWORK.
2. PROVIDE 120V, 15A CONNECTION TO EACH FAN COIL UNIT WITH 2#12, 1#12G, 3/4"C. FAN COIL TO BE PROVIDED WITH INTEGRAL DISCONNECT. REFER TO MOTOR/EQUIPMENT SCHEDULE ON SHEET E00-03. COORDINATE WITH MECHANICAL CONTRACTOR.
3. PROVIDE 120V EQUIPMENT BRANCH CONNECTION FROM PANEL LEQ3 TO FEED TEMPERATURE CONTROLS IN THE AREA.
4. PROVIDE 120V EQUIPMENT BRANCH CONNECTION FROM PANEL LEQ3 FOR FIRE/SMOKE DAMPERS. COORDINATE QUANTITY AND LOCATIONS WITH MECHANCIAL DRAWINGS.
5. EXISTING BRANCH CIRCUITS SHOWN FOR REFERENCE ONLY. NEW DEVICES SHALL BE WIRED TO EXISTING CIRCUITS, UNO.
6. DEADFRONT GFCI DEVICE.
7. NOT USED. (4)
8. PROVIDE A NEW CRITICAL BRANCH CIRCUIT TO FEED RECEPTACLES IN PATIENT ROOM.



Items deleted from the plan set.

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Jan 29, 2024*
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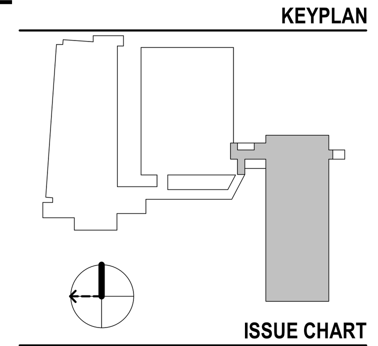
KEYPLAN



ISSUE CHART

MARK	ISSUE	DATE
4	ADDENDUM #5	01.04.24

Job Number 147607.000

TITLE

ELECTRICAL POWER PLAN

SHEET NUMBER

E10-03

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