THE MEDICAL CENTER OF AURORA

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

ISSUE DATE: 27 MAY 2022
PROJECT #: 21-047

ISSUE FOR CONSTRUCTION

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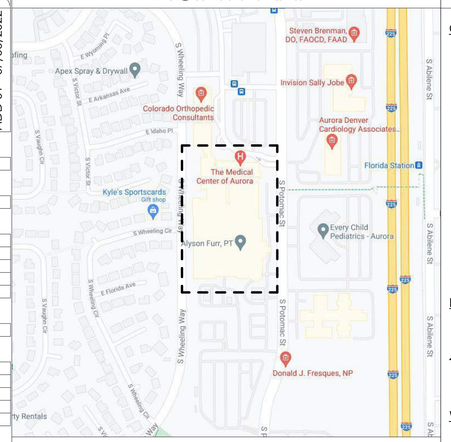
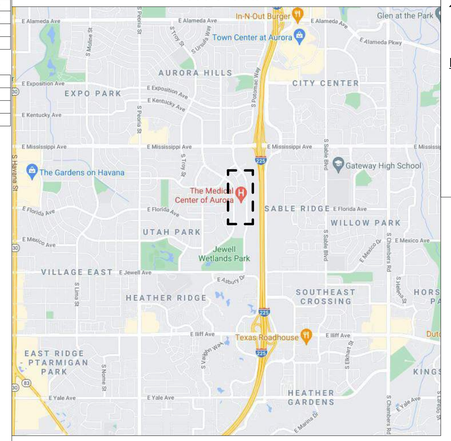
INDEX OF DRAWINGS

SHEET NO	SHEET NAME	IFC - 05/27/2022	ADD 01 - 07/06/2022
01 - GENERAL			
G.101	COVER & DRAWING INDEX	•	•
05 - DEMOLITION			
D.201	DEMOLITION FLOOR & REFLECTED CEILING PLANS	•	•
06 - ARCHITECTURAL			
A.201	FLOOR & REFLECTED CEILING PLANS	•	•
A.501	INTERIOR PARTITION TYPE CHARTS & DETAILS	•	
A.541	DOOR & GLAZING SCHEDULES & DETAILS	•	
A.561	INTERIOR ELEVATIONS	•	•
A.571	TYPICAL CASEWORK SECTIONS & DETAILS	•	
07 - INTERIORS			
I.201	FINISH PLAN & SCHEDULE	•	•
09 - MECHANICAL			
M.000	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES	•	
M.001	MECHANICAL SPECIFICATIONS	•	
M.002	PLUMBING NOTES AND SPECIFICATIONS	•	
MD.201	MECHANICAL DEMOLITION PLAN	•	
M.201	MECHANICAL PLAN	•	
11 - ELECTRICAL			
E.000	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES	•	
E.001	ELECTRICAL NOTES	•	•
E.002	ELECTRICAL DETAILS	•	•
ED.201	ELECTRICAL DEMOLITION PLAN	•	•
E.201	ELECTRICAL PLAN	•	
13 - VENDOR			
F1	FURNITURE PLAN	•	
F2	FURNITURE RENDERING 1	•	
F3	FURNITURE RENDERING 2	•	
F4	FURNITURE RENDERING 3	•	

VICINITY MAP

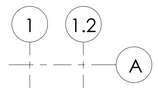


CITY MAP

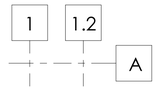


GENERAL SYMBOLS LEGEND

COLUMN GRID DESIGNATION

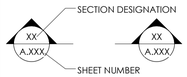


NEW GRID

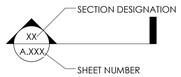


EXISTING GRID

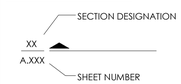
BUILDING SECTION TAG



WALL SECTION TAG



DETAIL CALLOUT TAG



NOTE TAGS

1 NOTE BY NUMBER

XX.XXX SPECIFICATION NOTE

DOOR TAG

XXX DOOR TAG

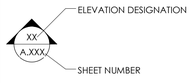
GLAZING TAG

GL-X GLAZING DESIGNATION PER SPECIFICATIONS

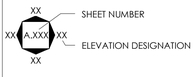
ARCHITECTURAL WOODWORK

24" CABINET WIDTH
A1 CABINET TYPE

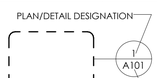
EXTERIOR ELEVATION TAG



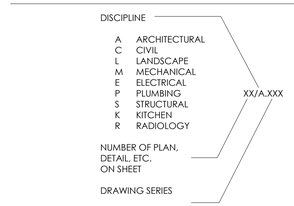
INTERIOR ELEVATION TAG



ENLARGED PLAN / CALLOUT TAG



DRAWING NUMBER KEY



GENERAL PROJECT NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWINGS. 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 CENTERLINE OF COLUMNS, AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS NOTED OTHERWISE. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS TO FINISH FACE OF NEW STUD WALLS, UNLESS NOTED OTHERWISE.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER-PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OFCI EQUIPMENT.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISHED FLOORING PRODUCT, NOTED BY "AFF" (ABOVE FINISH FLOOR), UNLESS NOTED OTHERWISE.
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 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.
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.

ABBREVIATIONS LEGEND

ACC	ACCESSIBLE	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
APPROX	APPROXIMATE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ARCH	ARCHITECTURAL	OFOI	OWNER FURNISHED, OWNER INSTALLED
B.O.___	BOTTOM OF ___	OPP	OPPOSITE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	PERP	PERPENDICULAR
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	PLBG	PLUMBING
CL	CENTER LINE	PLYWD	PLYWOOD
CLG	CEILING	RE:	REFER TO ____
CLR	CLEAR	REF	REFRIGERATOR
CMU	CONCRETE MASONRY UNIT	REINF	REINFORCE, REINFORCING
COORD	COORDINATE	RO	ROUGH OPENING
CORR	CORRIDOR	ROW	RIGHT OF WAY
DBL	DOUBLE	SCHED	SCHEDULE
DEMO	DEMOLISH, DEMOLITION	SF	SQUARE FOOT(FEET)
EA	EACH	SIM	SIMILAR
ELEC	ELECTRIC(AL)	SPEC	SPECIFICATION
ELEV	ELEVATOR	STC	SOUND TRANSMISSION CLASS
EQ	EQUAL	STD	STANDARD
(E), EXST	EXISTING	STL	STEEL
FF	FINISH FACE	STRUCT	STRUCTURAL
FF EL	FINISHED FLOOR ELEVATION	T	TREAD
FLR	FLOOR	T&G	TONGUE & GROOVE
FO	FINISHED OPENING	TEMP	TEMPORARY
FP	FIRE PROTECTION	T.O.	TOP OF ___
FV	FIELD VERIFY	TOPO	TOPOGRAPHY, TOPOGRAPHIC
GALV	GALVANIZED	TYP	TYPICAL
GYP BD	GYPSUM BOARD	UL	UNDERWRITER'S LABORATORIES
GYP PLAS	GYPSUM PLASTER	UNFIN	UNFINISHED
INSUL	INSULATION	UNO	UNLESS NOTED OTHERWISE
LAV	LAVATORY	W/	WITH
LVR	LOUVER	W/O	WITHOUT
MAX	MAXIMUM	WC	WATER CLOSET
MECH	MECHANICAL	WD	WOOD
MFR	MANUFACTURER	X	BY
MIN	MINIMUM		
MISC	MISCELLANEOUS		

PROJECT DESCRIPTION

REFINISH OF AN EXISTING OR WAITING AREA AND TWO CONSULT ROOMS TO IMPROVE CIRCULATION AND FLOW OF THE SPACE. THE REGISTRATION DESK WILL BE RELOCATED TO SUPPORT THIS NEW FLOW AND PARTITIONS WILL BE ADDED. THE WORK IS TO BE PHASED AND ACCESS TO THE OR SUITE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. SCOPE TO INCLUDE UPDATED LIGHTING, ELECTRICAL, PLUMBING, CASEWORK, FURNISHINGS AND FINISHES. OVERALL PROJECT AREA IS APPROXIMATELY 1885 SF.

PROJECT DATA

- **CODES/ LAWS:**
  CITY OF AURORA:
  2021 INTERNATIONAL BUILDING CODE (IBC)
  2021 INTERNATIONAL MECHANICAL CODE (IMC)
  2021 INTERNATIONAL FUEL GAS CODE (IFGC)
  2021 INTERNATIONAL FIRE CODE (IFC)
  2021 INTERNATIONAL PLUMBING CODE (IPC)
  2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
  2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
  2020 NATIONAL ELECTRICAL CODE (NEC)

  STATE OF COLORADO:
  2006 COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT - HOSPITAL LICENSING RULES
  2012 NFPA 101 - LIFE SAFETY CODE
  FEDERAL:
  2010 AMERICANS WITH DISABILITIES ACT GUIDELINES
  2017 ICC / ANSI A117.1 ACCESSIBILITY CODE
- **OCCUPANCY CLASSIFICATION:**
  2015 IBC - GROUP I-2 (SECTION 308.4)
  2012 NFPA 101 - EXISTING HEALTHCARE OCCUPANCY (CHAPTER 19)
- **PRINCIPAL OCCUPANCY TYPE:** I-2
- **CONSTRUCTION TYPE:**

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

  NEW: 2021 IBC - TYPE 1-A, FULLY SPRINKLERED
  2012 NFPA 220 - TYPE 1 (332)

City of Aurora Building Division
Project: ***Waiting Room Remodel***
Address: ***1501 S Potomac St***
Occupancy Group: ***I2***
Construction Type: ***IA-Spk***
RSN: ***1634377***
Permit: ***22-2165629-LT***

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

SEPARATE FIRE SPRINKLER PERMIT REQUIRED:
Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not incompliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any requires for inspection. A Certificate of Occupancy or final approval cannot be issued by the Building Division without this fire protection system. 2021 IFC, Section 105.6.1

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: **Feb 06, 2023**
2021 INTERNATIONAL CODES & 2020 NEC

PATH architecture + planning 21
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ph: 303.225.6320

No.	Description	Date
1	Addendum 01	07/06/2022

STATE OF COLORADO
JOHN MENNO NAP
401729
LICENSED ARCHITECT
07/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title

COVER & DRAWING INDEX

Sheet Number

G.101

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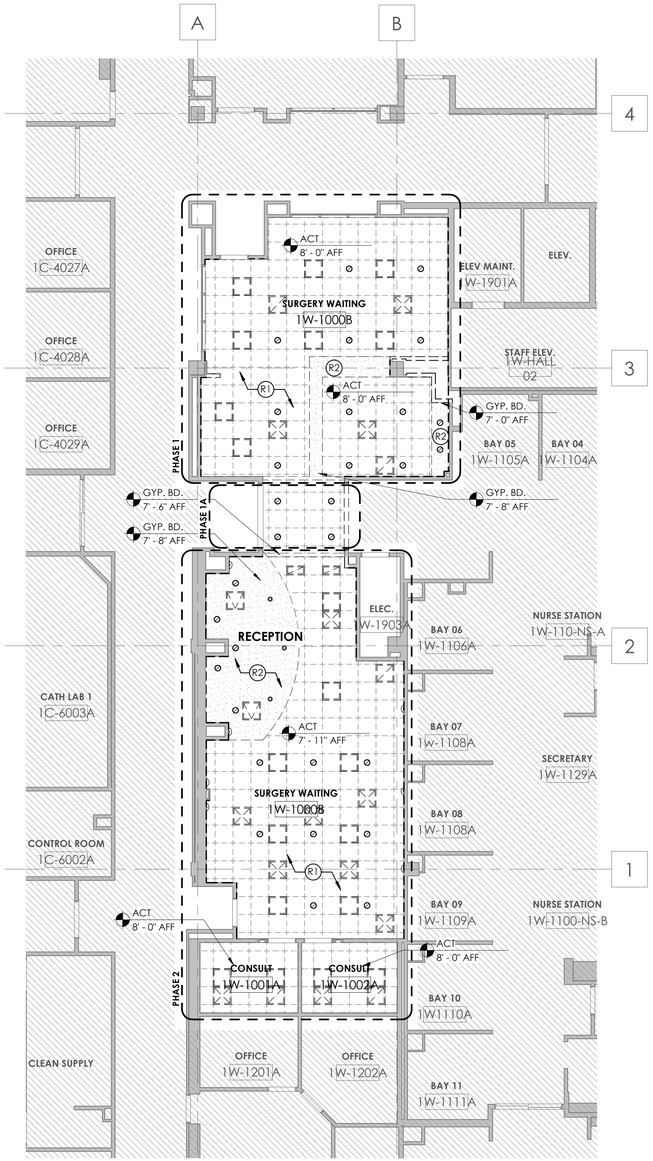
RSN: 1634377
Permit#: 22-2165629-LT



02- LEVEL 01 - DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN NOTES

1. REFER TO SPECIFICATIONS FOR INTERIM LIFE SAFETY MEASURES.
2. 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 BEFORE PROCEEDING WITH CONSTRUCTION.
3. REPAIR ANY DAMAGED FIRE RATED ASSEMBLIES TO THEIR ORIGINAL SPECIFICATION.
4. REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION, SUCH AS CEILING GRID, CEILING TILE, WALL COVERING, AND FLOOR COVERING.
5. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL CEILING INCLUDES FINISHES, MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS CONTAINED THEREIN. REMOVE CEILING TILES, GRID, AND OTHER FIXTURES AS REQUIRED. AFTER REMOVAL OF PIPE CHASES, PATCH HOLES IN EXISTING FLOORS, WALLS, AND CEILINGS TO REMAIN TO MEET ORIGINAL FIRE PROTECTION AND STRUCTURAL REQUIREMENTS.
6. WHERE NEW FINISHES ARE TO BE INSTALLED ON EXISTING CEILING 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 APPLICABLE UTILITIES.
9. VERIFY THAT CONSTRUCTION OF EXISTING WALLS WITHIN THE AREA OF RENOVATION (SMOKE COMPARTMENT) MEETS THE FIRE PROTECTION RATINGS DESIGNATED ON THE LIFE SAFETY PLANS.
10. VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
11. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND AS SET FORTH BY ALL GOVERNING AUTHORITIES.

DEMOLITION REFLECTED CEILING PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- OUT OF SCOPE
- EXISTING SUPPLY DIFFUSER TO BE REMOVED, RE: MECHANICAL
- EXISTING RETURN DIFFUSER TO BE REMOVED, RE: MECHANICAL
- EXISTING ACCESS PANEL TO BE REMOVED, RE: MECHANICAL
- EXISTING LIGHT FIXTURE TO BE REMOVED, RE: ELECTRICAL
- EXISTING CAN LIGHT TO BE REMOVED, RE: ELECTRICAL
- EXISTING WALL SCONCE TO BE REMOVED, RE: ELECTICAL

DEMOLITION REFLECTED CEILING PLAN NOTES

(R1) WOODEN TRIM TO BE REMOVED THROUGHOUT.

(R2) REMOVE EXISTING GYPSUM BOARD SOFFIT.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
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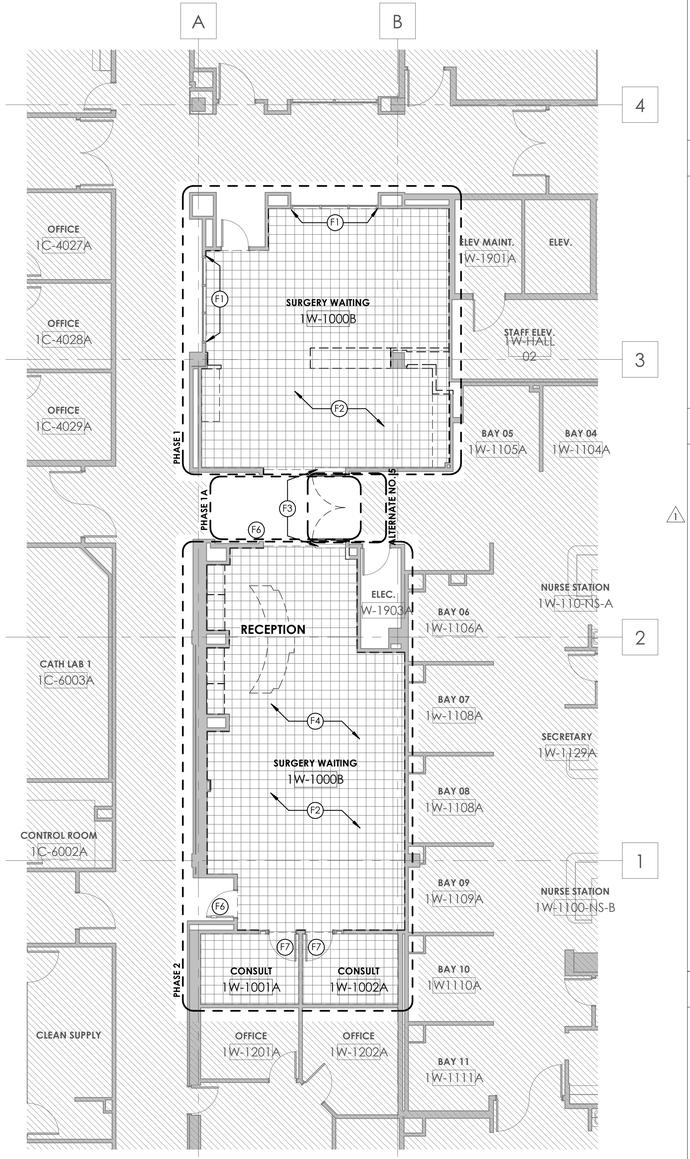
2021 INTERNATIONAL CODES & 2020 NEC



01- LEVEL 01
1/8" = 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 BEFORE PROCEEDING WITH CONSTRUCTION.
4. 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.
5. WHERE NEW FINISHES ARE TO BE INSTALLED ON EXISTING SURFACES, REMOVE THE EXISTING FINISH AND PREPARE SURFACE TO RECEIVE THE NEW FINISH.
6. COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
7. 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. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
12. REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION, SUCH AS CEILING GRID, CEILING TILE, WALL COVERING, AND FLOOR COVERING.
13. NOTIFY THE DESIGN TEAM IMMEDIATELY IF THE REMOVAL OF MECHANICAL EXISTING TO REMAIN ELECTRICAL, PLUMBING SYSTEMS OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEM OUTSIDE THE LIMIT OF EXISTING TO BE REMOVED - RE: NOTE 5 OF DEMOLITION GENERAL NOTES.
14. SCHEDULE ALL DEMOLITION WITH THE OWNER.

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- OUT OF SCOPE
- EXISTING FLOOR, WALL, AND CEILING FINISHES TO BE REMOVED WITHIN AREA INDICATED.

DEMOLITION KEYNOTES

(F1) GLAZING TO REMAIN, PROTECT DURING CONSTRUCTION.

(F2) WALL COVERING AND WOODEN CHAIR RAIL TO BE REMOVED THROUGHOUT THE SPACE. DEMOLISH GWB TO 2" ABOVE CEILING.

(F3) REMOVING WOODEN PONY WALL CAP, SKIM AND REPAIR PONY WALL PREPARE TOP OF PONY WALL FOR NEW CAP.

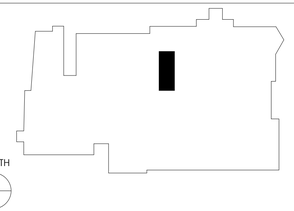
(F4) ALL WALL MOUNTED EQUIPMENT REMAINING TO BE RETURNED TO FACILITY OR CONFIRMED PRIOR TO DEMOLITION.

(F5) NOT USED

(F6) EXISTING DOOR AND FRAME TO REMAIN, PROTECT DURING CONSTRUCTION.

(F7) EXISTING DOOR, GLAZING AND FRAMES TO REMAIN, PROTECT DURING CONSTRUCTION.

KEY PLAN



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No.	Description	Date
1	Addendum 01	07/06/2022

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Issue	ISSUE FOR CONSTRUCTION
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Drawn by	JL
Checked by	SL, JMN

Sheet Title
DEMOLITION FLOOR & REFLECTED CEILING PLANS

Sheet Number
D.201

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Permit#: 22-2165629-LT

REFLECTED CEILING PLAN GENERAL NOTES

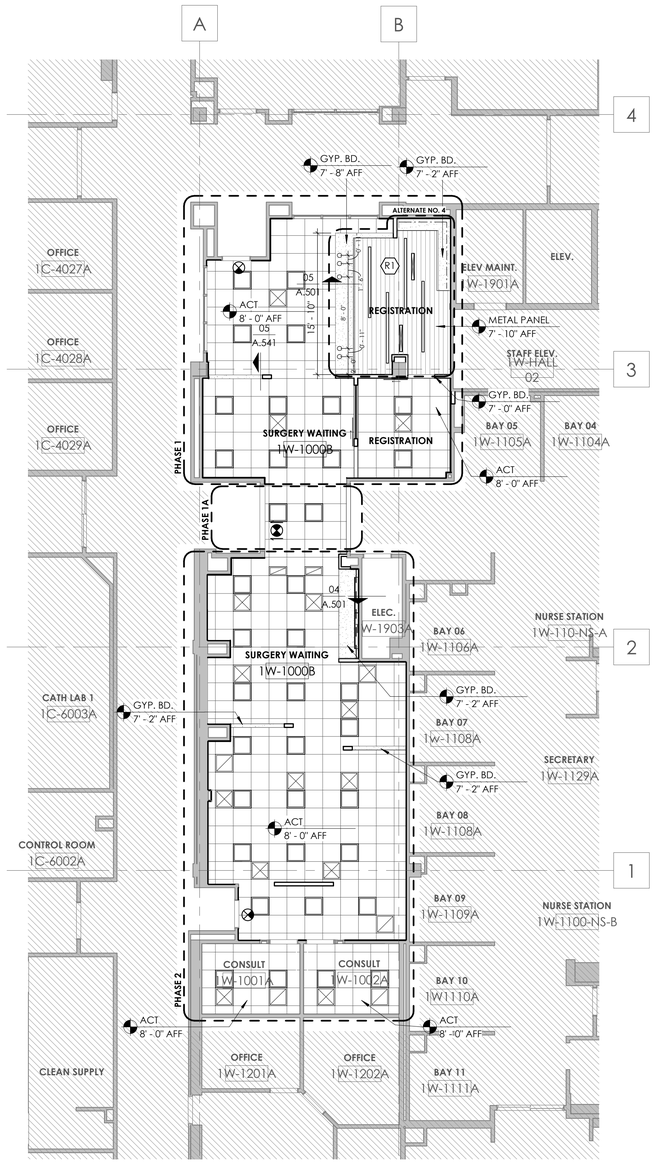
1. THE CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.
2. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, EXIT SIGNAGE, FIRE ALARM DEVICES, WALL MOUNTED EXIT LIGHTS, ETC.
3. FOR FURTHER DIMENSIONS SEE ENLARGED PLANS, SECTIONS, ELEVATIONS, AND DETAILS.
4. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS WITH FULL HEIGHT CABINETS AND INTERIOR ELEVATIONS.
5. SPRINKLER HEAD LOCATIONS ARE NOT SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
6. 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
7. THE CONTRACTOR SHALL 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. ACCESS PANELS SHALL HAVE A FIRE RATING EQUAL TO THE RATING OF THE CEILING IN WHICH THEY OCCUR.
8. WHERE EXISTING LAY-IN CEILINGS ARE TO REMAIN, THE CONTRACTOR SHALL REPLACE ANY DAMAGED TILES WITH MATERIALS THAT MATCH EXISTING COLOR, TEXTURE, PATTERN, ETC. IF UNIFORMITY CANNOT BE ACHIEVED, THE CONTRACTOR SHALL REPLACE THE ENTIRE CEILING WITHIN THE SPACE WITH NEW MATERIAL.

REFLECTED CEILING PLAN LEGEND

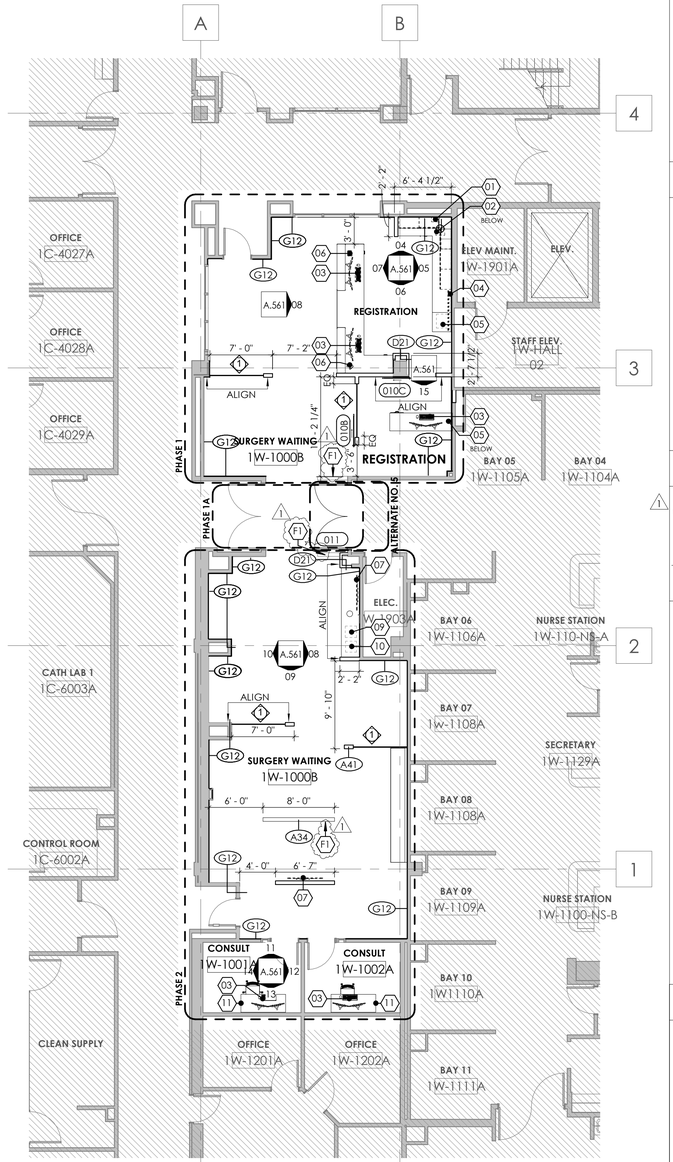
- OUT OF SCOPE
- SUSPENDED 2' x 2' ACOUSTICAL CEILING SYSTEM
- GYPSUM WALL BOARD CEILING
- METAL PLANK LINEAR CEILING SYSTEM
- CEILING TYPE / 1' - 0" AFF — CEILING HEIGHT DESIGNATION
- 1 — NEW RECESSED LIGHT FIXTURE, RE: ELECTRICAL
- SUPPLY AIR GRILLE, RE: MECHANICAL
- RETURN AIR GRILLE, RE: MECHANICAL
- SUPPLY STRIP DIFFUSER RE: MECHANICAL
- EXIT SIGN W/ DIRECTION, RE: ELECTRICAL
- STRIP COVE LIGHTING, RE: ELECTRICAL
- INTEGRATED CEILING SYSTEM LIGHTING, RE: ELECTRICAL
- UNDER CABINET TASK LIGHTING, RE: ELECTRICAL
- ACCENT PENDANT LIGHT, RE: ELECTRICAL

REFLECTED CEILING PLAN KEYNOTES

R1 — INSTALL LIGHT, AS SCEDULED RE: ELECTRICAL, HOUSED WITHIN CEILING PANEL.



02 - LEVEL 01 - REFLECTED CEILING PLAN
1/8" = 1'-0"



01 - LEVEL 01 - FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO A.500 SERIES FOR PARTITION TYPES AND FOR LOCATION OF SOUND ATTENUATION BLANKETS.
2. REFER TO SHEET G.101 FOR PROJECT GENERAL NOTES.
3. ALL PARTITIONS ARE TYPE "A41" UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTERLINE OF COLUMNS, AND TO THE FACE OF CONCRETE OR MANSONRY WALLS, UNLESS NOTED OTHERWISE. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS TO FINISH FACE OF NEW STUD WALLS, UNLESS NOTED OTHERWISE.
5. 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 ALIGNED. STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED FOR FACE ALIGNMENT OF GYPSUM BOARD.
6. SEE ARCHITECTURAL ENLARGED PLANS FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
7. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR (EXCLUDING PATIENT BEDROOMS), UNLESS SPECIFICALLY DIMENSIONED, NOTED, OR SHOWN OTHERWISE.

EQUIPMENT PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT THAT IS LOCATED WITHIN OR ADJACENT TO BUILT-IN CABINETS.
2. ALL GLOVE DISPENSERS ARE TO BE OWNER FURNISHED, CONTRACTOR INSTALLED.
3. CONTRACTOR SHALL PROVIDE BLOCKING/STRAPPING FOR ALL MOUNTING BRACKETS OF WALL HUNG EQUIPMENT. COORDINATE FURNISHED EQUIPMENT REQUIREMENTS AND VENDOR DRAWINGS.
4. ALL SINKS ARE TO RECEIVE "TA3" PAPER TOWEL DISPENSER AND "TA8" SOAP DISPENSER, UNLESS NOTED OTHERWISE.
5. ALL CEILING AND/OR WALL MOUNTED EQUIPMENT SHALL BE MOUNTED AT 80" CLEAR ABOVE FINISH FLOOR.
6. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON THE DELIVERY AND INSTALLATION OF OWNER FURNISHED EQUIPMENT.

FLOOR PLAN LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- OUT OF SCOPE
- 1 — INTERIOR WINDOW TAG RE: A.541 FOR SCHEDULE
- XXX — DOOR TAG RE: A.541 FOR DOOR SCHEDULE
- XXX — PARTITION TAG RE: A.501 FOR TYPE CHARTS
- EQUIPMENT RE: SCHEDULE
- 1 / 1 A.100 1 — INTERIOR ELEVATION TAG

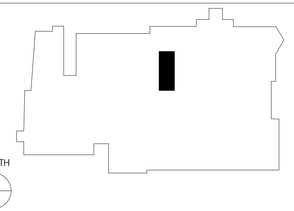
FLOOR PLAN KEYNOTES

1 / F1 — ADD SS1 PONY WALL CAP

EQUIPMENT PLAN KEYNOTES

01	STEREO CONTROLS (IPAD) AND BRACKET	OFOI/OFCI EXST
02	STEREO COMPONENT, BELOW COUNTER BRACKET	OFCI EXST
03	WORKSTATION	OFOI
04	65" MONITOR AND BRACKET	OFCI
05	MULTI-FUNCTION PRINTER	OFOI EXST
06	PHONE	OFOI
07	55" MONITOR AND ADJUSTABLE BRACKET	OFCI
08	TRASH CAN	OFOI
09	WATER DISPENSER	OFOI
10	COFFEE MACHINE	OFOI
11	FURNITURE	OFOI

KEY PLAN



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Feb 06, 2023
2021 INTERNATIONAL CODES & 2020 NEC

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No.	Description	Date
1	Addendum 01	07/06/2022

STATE OF COLORADO
JOHN MENNO MAY
401729
LICENSED ARCHITECT
07/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

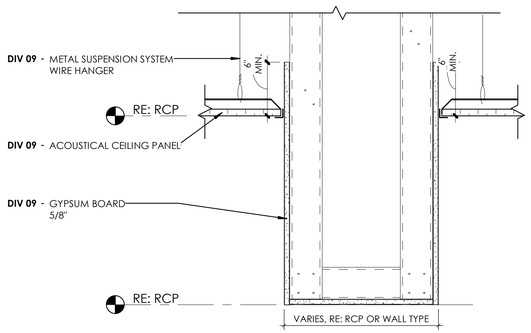
Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title
FLOOR & REFLECTED CEILING PLANS

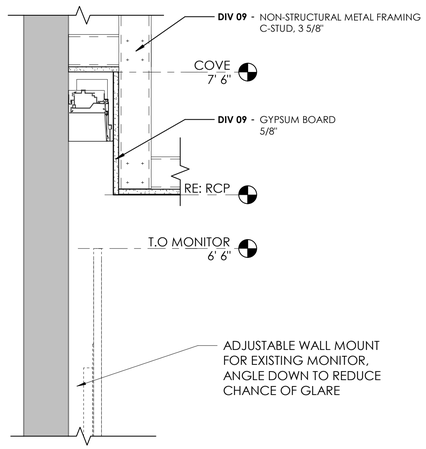
Sheet Number
A.201

7/6/2022 2:43:56 PM

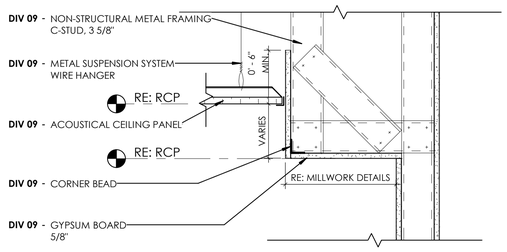
RSN: 1634377
Permit#: 22-2165629-LT



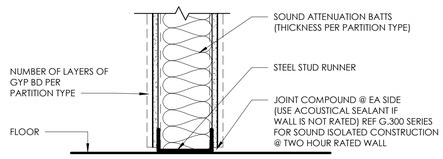
05- DETAIL @ PARTITION SOFFIT
1 1/2" = 1'-0"



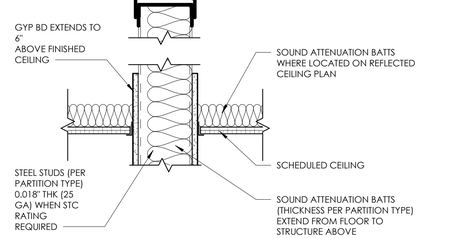
04- LIGHTING FIXTURE DETAIL @COFFEE BAR
1 1/2" = 1'-0"



03- DETAIL @ FURR DOWN SOFFIT OVER MILLWORK
1 1/2" = 1'-0"



02- PARTITION FLOOR SECTION
1 1/2" = 1'-0"
WHERE STUDS & GYPSUM BOARD STOP AT THE FLOOR



01- PARTITION HEAD SECTION
1 1/2" = 1'-0"
@ NON-RATED W/ GYP BD TO 6" ABOVE CEILING

PARTITION TYPE GENERAL NOTES

1. REFER TO FLOOR PLAN SERIES A.200 FOR LOCATION OF PARTITION TYPES. ALL PARTITIONS ARE TYPE " A41 " UNLESS NOTED OTHERWISE. NOT ALL PARTITION TYPES SHOWN IN SCHEDULE ARE UTILIZED.
2. REFER TO THE I.200 SERIES FOR FINAL FINISHES ON PARTITIONS. PARTITION TYPES IN CHARTS REFER TO BASE WALL ONLY.
3. WHEN BLOCKING IS REQUIRED IN A PARTITION, USE A .033" (20 GA) STUD, MINIMUM.
4. AT WALLS WITHOUT TILE BEHIND SINKS AND LAVATORIES, PROVIDE ONE LAYER OF 5/8" GLASS MATT INTERIOR TYPE BOARD. AT WALLS WITHOUT TILE, GLASS MATT INTERIOR TYPE BOARD SHALL BE INSTALLED WITHIN 2'-0" OF ALL URINALS AND WATER CLOSETS, TO A HEIGHT OF 4'-0" AFF.
5. PROVIDE TILE BACKER GLASS MATT AT ALL WALLS IN TOILET ROOMS WITH SHOWER AND AT TILED WALLS OR WALL PANELS IN SHOWERS AND BATHTUBS.
6. PENETRATIONS IN LEAD-LINED PARTITIONS SHALL BE SEALED TO MEET LEAD SHIELDING REQUIREMENTS.
7. ALL LOAD BEARING WALLS SHALL BE CONSTRUCTED PER STRUCTURAL DRAWINGS AND SPECIFICATIONS.
8. PROVIDE FIRE TREATED WOOD BLOCKING, SHEET METAL OR STEEL BACKING IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT. FOR EXAMPLE, AT CABINETS, HANDRAILS, GUARDRAILS, TOILET PARTITIONS AND ACCESSORIES, WALL-MOUNTED EQUIPMENT, ETC..
9. "LINE OF STRUCTURE" AS SHOWN AT HEAD CONDITIONS OF PARTITION DETAILS DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION. REFER TO G.300 SERIES "CODE COMPLIANCE DETAILS" FOR ADDITIONAL INFORMATION ABOUT RATED PARTITIONS.
10. ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. STOP STUD BELOW METAL RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION. SET TOP TRACK 1" BELOW DEFLECTION TRACK. DO NOT ATTACH STUDS TO TOP TRACK. DO NOT ATTACH GYPSUM BOARD TO THE DEFLECTION TRACK. THIS MAY ALSO BE ACHIEVED, AT THE CONTRACTOR'S OPTION, BY UTILIZING THE PROPRIETARY SYSTEM DESCRIBED IN THE PROJECT MANUAL.
11. REFER TO DOOR AND WINDOW SCHEDULES FOR NOTES REGARDING STUDS AT OPENINGS.
12. REFER TO THE A.500 SERIES FOR HEAD OF WALL DETAILS FOR NON-RATED PARTITIONS.

ACOUSTICAL PARTITIONS

THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED WITH A SOUND TRASMISSION CLASS (STC) RATING IN THE PARTITION SCHEDULE. REFER TO A.500 SERIES DETAILS FOR PARTITION TYPES WITH A DESIGNATED STC RATING.

1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE REFERENCED TEST.
2. STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS.
3. SEAL PARTITIONS TO BE AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES. SEAL WITH NON-HARDENING ACOUSTICAL SEALANT.
4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE REQUIRED UL FIRE RESISTANCE CLASSIFICATION MARKING. REFER TO G.300 SERIES, "CODE COMPLIANCE DETAILS."
5. AT ACOUSTICALLY RATED PARTITIONS, DO NOT FILL THE STUD CAVITY DEPTH FULLY WITH SOUND BATTS. THE WIDTH OF THE SOUND BATTS SHOULD BE SLIGHTLY SMALLER THAN CAVITY TO AVOID BATT COMPRESSION; HOWEVER, THE ENTIRE LENGTH AND HEIGHT OF THE PARTITION SHOULD HAVE CONTINUOUS AND UNINTERRUPTED SOUND ATTENUATION BATTS.
6. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS IN ACCORDANCE WITH DETAILS IN THE A.500 SERIES.
7. SEAL ALL CONDUIT, STRUCTURAL, DUCT, AND LARGE PIPE PENETRATIONS ACCORDING TO DETAILS IN THE A.500 SERIES TO MAINTAIN THE ACOUSTICAL RATING OF THE WALL. REFER TO SERIES G.300, "CODE COMPLIANCE DETAILS" IF THE PARTITION IS FIRE RATED.
8. OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSED PARTITIONS SHOULD BE SEPARATED BY A MINIMUM OF ONE STUD. SEAL OUTLETS IN ACCORDANCE WITH DETAILS IN THE A.500 SERIES TO MAINTAIN ACOUSTICAL RATING. REFER TO SERIES G.300, "CODE COMPLIANCE DETAILS" IF THE PARTITION IS FIRE RATED.
9. THE ARCHITECT SHALL OBSERVE THAT ALL BOXES REQUIRED TO BE ACOUSTICALLY SEALED ARE SEALED PRIOR TO CLOSING IN PARTITIONS AND INSTALLING DEVICES AND COVER PLATES.
10. "Z" FURRINGS OR RESILIENT CHANNELS ARE REQUIRED AT CMU WALLS TO MAINTAIN DESIGNATED STC.

FIRE RATED PARTITIONS

1. REFER TO G.300 SERIES "CODE COMPLIANCE DETAILS" FOR ADDITIONAL INFORMATION ON THRU PENETRATIONS AT RATED PARTITIONS, FIRE RESISTANT JOINT SYSTEMS, SLIP TRACKS AT NON-BEARING PARTITION CONNECTIONS TO STRUCTURE, AND WALL PRIORITY.
2. UL DESIGN REFERS TO FIRE RESISTANCE DIRECTORY'S MOST RECENT ISSUE.
3. CONSTRUCT RATED PARTITIONS BEFORE NON-RATED.
4. REFER TO G.300 SERIES FOR HEAD OF WALL DETAILS AT RATED PARTITIONS.

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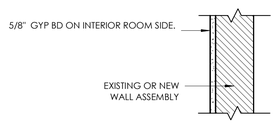
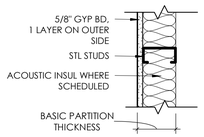
No.	Description	Date

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Feb 06, 2023
2021 INTERNATIONAL CODES & 2020 NEC



G

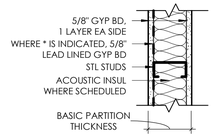
GYP BD TO 6" MIN. ABOVE CEILING UNO	G12	
STUD SIZE	VARIES	
BASIC PARTITION THICKNESS	5/8" GYP	



D

NOTE:
1. STC'S ARE PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC'S ARE BASED ON 0.018" THICK (25 GA) STUDS.
3. REFER TO A.500 SERIES FOR BRACING.

	D1_	STC	D2_	STC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11	27	D21	29	D31	27	D41	30	D51	27	D61	30	D71	27	D81	31	D91	26
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12		D22		D32		D42		D52		D62		D72		D82		D92	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13		D23		D33		D43		D53		D63		D73		D83		D93	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"	
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"	
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"		1"	
ACOUSTICAL TEST NUMBER	NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1		NOTE 1	
FIRE TEST NUMBER (WHERE APPLICABLE)																		



A

NOTE:
1. STC IS PREDICTED USING THE "INSUL" COMPUTER PROGRAM.
2. STC IS MODIFIED FROM THE REFERENCE.
3. STC IS BASED ON 0.018" THICK (25 GA) STUDS
4. WHERE AN * NEXT TO THE PARTITION TAG, A SINGLE LAYER OF LEAD LINED GYPSUM BOARD IN LIEU OF TYPE X GYPSUM BOARD ON THE PROCEDURE ROOM SIDE OF THE WALL. NOT TO BE USED FOR FIRE RATED WALLS.

	A1_	STC	A2_	STC	A3_	STC	A4_	STC	A5_	STC	A6_	STC	A7_	STC	A8_	STC
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE			A20	46	A30	39	A40	47	A50	39	A60	47	A70	40	A80	48
NON-RATED WITH GYP BD TO STRUCTURE ABOVE (SMOKE RESIST)	A11	39	A21	46	A31 (*)	39	A41 (*)	47	A51 (*)	39	A61 (*)	47	A71 (*)	40	A81 (*)	48
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	A12		A22		A32 (*)		A42 (*)		A52 (*)		A62 (*)		A72 (*)		A82 (*)	
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	A13		A23		A33		A43		A53		A63		A73		A83	
PARTIAL HEIGHT PARTITION, SEE FLOOR PLANS FOR HEIGHTS.	A14		A24		A34		A44		A54		A64		A74		A84	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"	
BASIC PARTITION THICKNESS	3 3/4"		3 3/4"		4 7/8"		4 7/8"		5 1/4"		5 1/4"		7 1/4"		7 1/4"	
ACOUSTICAL INSULATION THICKNESS	-		2"		-		3"		-		3"		-		5 1/2"	
ACOUSTICAL TEST NUMBER	SIM USG 860808		SIM SA 831001		SIM USG 860808		SIM USG 870717		SIM USG 860808		SIM SA 870717		SIM USG 860808 NOTE 3		SIM USG 870717 NOTE 4	
FIRE TEST NUMBER (WHERE APPLICABLE)	-		UL DES U419		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465	

STATE OF COLORADO
JOHN MENNO HAM
401729
LICENSED ARCHITECT
05/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title
INTERIOR PARTITION TYPE CHARTS & DETAILS

Sheet Number
A.501

5/31/2022 7:20:05 PM

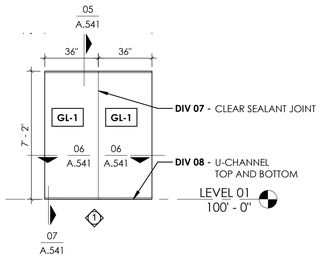
RSN: 1634377
Permit#: 22-2165629-LT

DOOR SCHEDULE

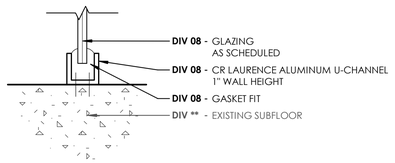
		DOOR							FRAME								
		SIZE										DETAILS			FIRE	DOOR	
DOOR NO	ROOM NAME	W	HT	THK	TYPE	MTL	FINISH	GLZ	TYPE	FINISH	MTL	HEAD	JAMB	SILL	RATING	HARDWARE	REMARKS
010B	SURGERY WAITING	3' - 8"	6' - 11 3/4"	0' - 2"	FG	SC	PL1	GL-1	C	PNT	HM	04/A.541	-	03/A.541	NR	4.01	
010C	REGISTRATION	3' - 2"	7' - 0"	0' - 2"	FG	SC	PL1	GL-1	C	PNT	HM	04/A.541	-	03/A.541	NR	4.01	
011	SURGERY WAITING	7' - 4"	7' - 0"	0' - 1 3/4"	F	SC	ACR1	-	(E)	PNT	(E)	01/A.541	02/A.541	-	SR	0.01	1
Grand total: 3																	

REMARKS

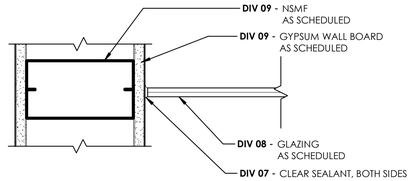
1. ALTERNATE NO. 5, SCOPE TO BE COMPLETED TO PROVIDE MINIMAL INTERRUPTION TO OR AREA.



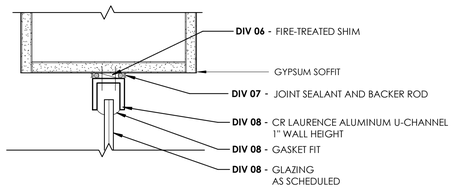
08 - GLAZED PARTITION
1/4" = 1'-0"



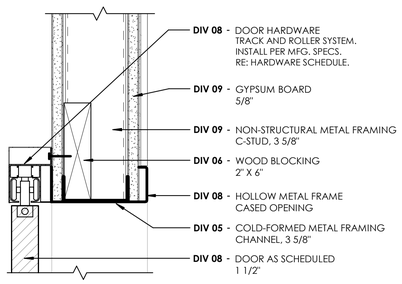
07 - SILL DETAIL
3" = 1'-0" @ GLAZED PARTITION



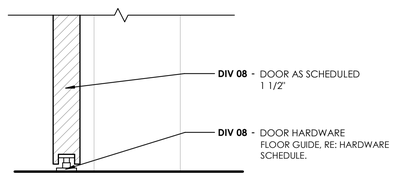
06 - JAMB DETAIL
3" = 1'-0" @ GLAZED PARTITION



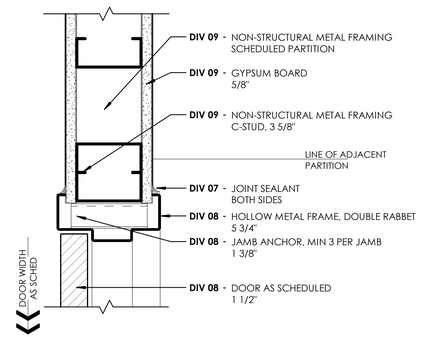
05 - HEAD DETAIL
3" = 1'-0" @ GLAZED PARITION



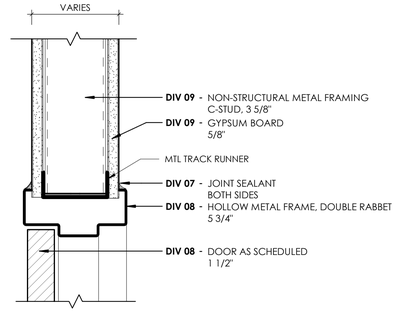
04 - HEAD DETAIL @ SLIDING BARN DOOR
3" = 1'-0"



03 - SILL DETAIL @ SLIDING BARN DOOR
3" = 1'-0"



02 - JAMB DETAIL
3" = 1'-0" @ TYP RATED/ NON-RATED DOOR

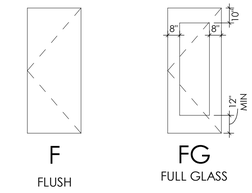


01 - HEAD DETAIL
3" = 1'-0" @ TYP RATED/ NON-RATED DOORS

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Feb 06, 2023
2021 INTERNATIONAL CODES & 2020 NEC

5/31/2022 7:20:55 PM

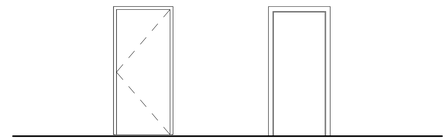
DOOR TYPES



F
FLUSH

FG
FULL GLASS

DOOR FRAME TYPES



A
RABBETED

C
CASED

HARDWARE SCHEDULE

SET# 4.01
DOORS: 010B, 010C

QTY:	ITEM:	MODEL:	FINISH:	MFR:
(1EA)	SLIDING DOOR KIT	CCL-1-410-W-CA X 96" 1 DR KIT (SABDH)	US32D	KNC
(1EA)	SET DOOR PULLS	110-RKW TYPE 5HD FASTENING (SABTBP)	US32D	ROC
(1EA)	HEADER SEAL	300 DP 80"		PEM
(1EA)	STRIKE POCKET SEAL	S44 D 17"		PEM

SET# 0.01
DOOR: 011

SALVAGE AND REINSTALL EXISTING

DOOR SCHEDULE ABBREVIATIONS

MATERIAL:
HM - HOLLOW METAL
SC - SOLID CORE DOOR
(E) - EXISTING
GL-1 - GLAZING 1

FINISH:
*REFER TO FINISH LEGEND FOR MORE INFORMATION.
AL1 - ANODIZED ALUMINUM
PNT - PAINTED FINISH
PL - PLASTIC LAMINATE
ACR - HIGH IMPACT CLADDING

MISC.:
NR - NOT RATED
SR - SMOKE-RESISTANT

HARDWARE MANUFACTURERS:
ROC - ROCKWOOD
PEM - PEMKO
KNC - KN CROWDER

GLAZING TYPE SCEDULE

TYPE	RE: TO SPECIFICATIONS
GL-1	LAMINATED TRANSLUCENT GLASS. 1/2" THICK, TWO PLY. +0.03 INTERLAYER

PATH architecture + planning 21
2245 Curtis Street, Suite 100
Denver, CO 80205
Tel: 303.630.9261
Email: info@path21arch.com
www.path21arch.com

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Consultant Team

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ph: 303.225.6320

No.	Description	Date

STATE OF COLORADO
JOHN MENNO MAAT
401729
LICENSED ARCHITECT
05/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

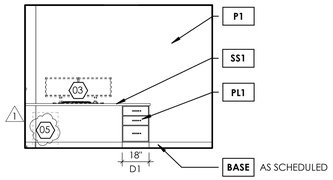
Sheet Title
DOOR & GLAZING SCHEDULES & DETAILS

Sheet Number
A.541

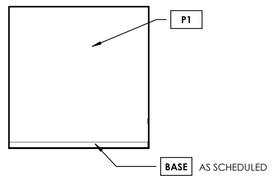
RSN: 1634377
Permit#: 22-2165629-LT

ELEVATION GENERAL NOTES

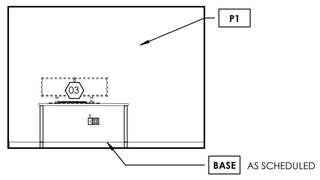
1. REFER TO ELEVATIONS FOR MODULAR CASEWORK LAYOUTS, NON-STANDARD SIZES, MODIFICATIONS, DOOR, DRAWER AND SHELF CONFIGURATIONS. RE DETAIL ON A.571 /1/1
2. COORDINATE WITH OWNER, EQUIPMENT PLANS AND ELECTRICAL DOCUMENTS FOR LOCATION OF ALL REQUIRED 2-1/2" GROMMETS AT ALL COUNTER TOP LOCATIONS.
3. PROVIDE PLASTIC LAMINATE FINISHED END PANELS AT ALL EXPOSED ENDS OF BASE AND UPPER CABINETS.
4. CONTRACTOR SHALL PROVIDE SECURE WALL ATTACHMENT FOR ALL CASEWORK TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
5. FILLER STRIPS SHALL BE 1" MINIMUM. NOTIFY ARCHITECT CONCERNING AREAS SMALLER THAN 1".
6. ALL FILE CABINETS TO RECIEVE PENDIFLEX LETTER FILE INSERTS. REFER TO ELEVATIONS ON /1/A.561 FOR NOTATION OF LOCKS.
7. CONTRACTOR TO PROVIDE LOCKS WHERE NOTED: NATIONAL #C8053-14A BRUSHED CHROME OR EQUAL SUBSTITUTE. KEY PER ELEVATION NOTES.
8. PROVIDE 4" RUBBER COVE BASE AT ALL CASEWORK KICKSPACES
9. PROVIDE BLANK PANEL IN LIEU OF DRAWERS AT SINK LOCATIONS
10. PROVIDE 2" RADIUS CURVED EDGES AT ALL EXPOSED EDGES. RE DETAILS ON A.571 /1/1
11. PROVIDE PAPER TOWEL HOLDER AND 4" BACKSPLASH AT ALL SINK LOCATIONS.
12. REFER TO I.100 SERIES FOR CASEWORK FINISHES
13. REFER TO A.511 SHEET FOR TYPICAL ACCESSIBLE TOILET ACCESSORIES AND MOUNTING HEIGHTS.
14. PROVIDE IN-WALL TUBE SUPPORT FOR COUNTERTOP SUPPORT WHEN NECESSARY AND AS NOTED IN ELEVATIONS IN A.561 /1/1



15- PRIVATE REGISTRATION SOUTH ELEVATION
1/4" = 1'-0"



14- TYPICAL CONSULT ROOM WEST ELEVATION
1/4" = 1'-0"



13- TYPICAL CONSULT ROOM SOUTH ELEVATION
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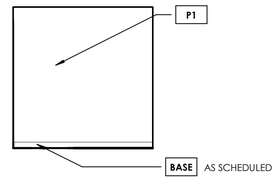
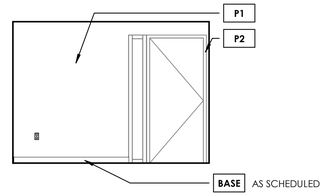
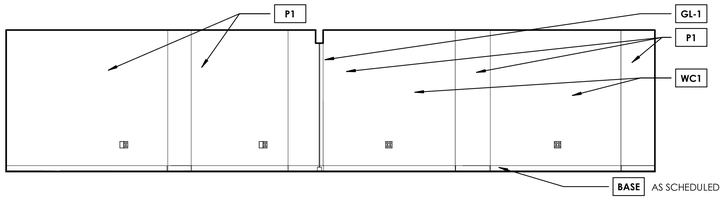


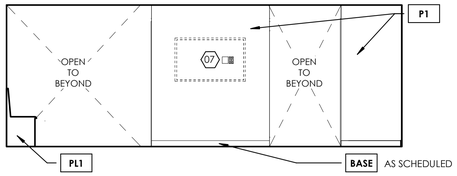
12- TYPICAL CONSULT ROOM EAST ELEVATION
1/4" = 1'-0"



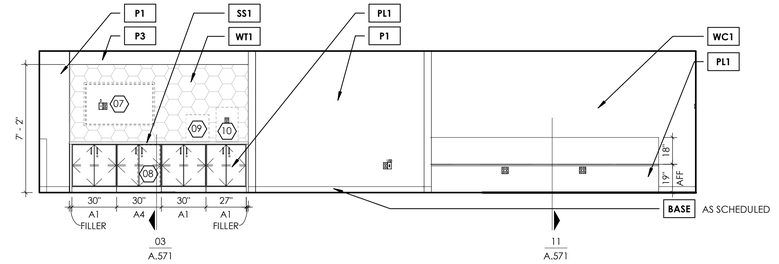
11- TYPICAL CONSULT ROOM NORTH ELEVATION
1/4" = 1'-0"



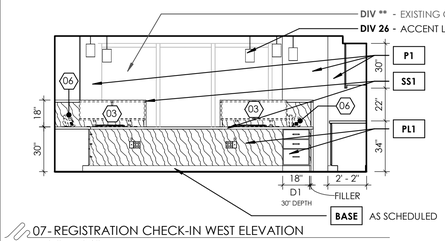
10- SURGERY WAITING ROOM WEST ELEVATION
1/4" = 1'-0"



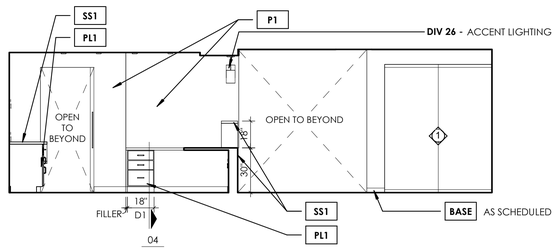
09- SURGERY WAITING ROOM SOUTH ELEVATION
1/4" = 1'-0"



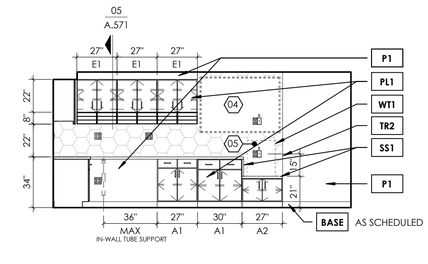
08- SURGERY WAITING ROOM EAST ELEVATION
1/4" = 1'-0"



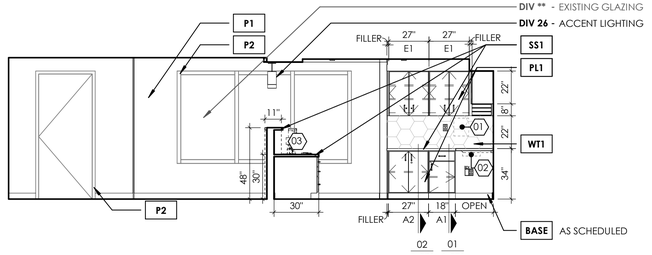
07- REGISTRATION CHECK-IN WEST ELEVATION
1/4" = 1'-0"



06- REGISTRATION CHECK-IN SOUTH ELEVATION
1/4" = 1'-0"

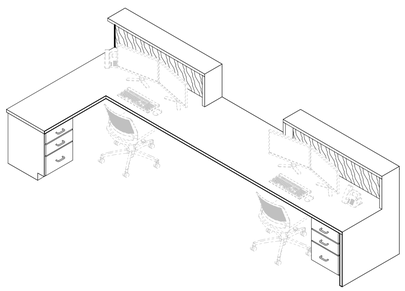


05- REGISTRATION CHECK-IN EAST ELEVATION
1/4" = 1'-0"

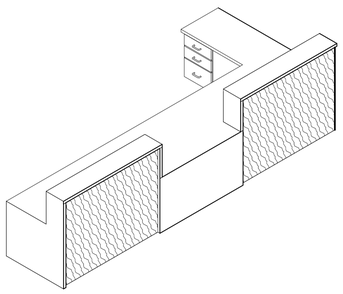


04- REGISTRATION CHECK-IN NORTH ELEVATION
1/4" = 1'-0"

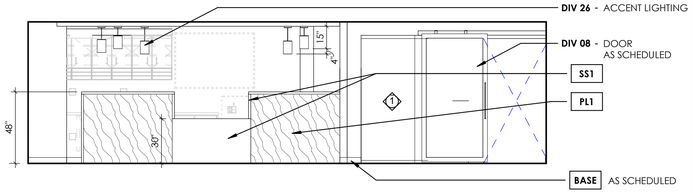
This sheet of drawings has not been reviewed for code compliance.



03- DESK ISOMETRIC BACK SIDE



02- DESK ISOMETRIC FRONT SIDE



01- FRONT OF REGISTRATION CHECK-IN EAST ELEVATION
1/4" = 1'-0"

PATH architecture + planning 21

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ph: 303.225.6320

No.	Description	Date
1	Addendum 01	07/06/2022

STATE OF COLORADO
JOHN MENNO HA
401729
LICENSED ARCHITECT
07/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title

INTERIOR ELEVATIONS

Sheet Number

A.561

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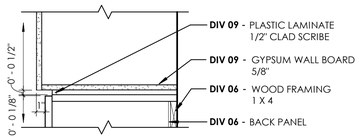
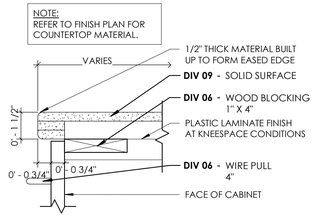
7/6/2022 2:44:03 PM

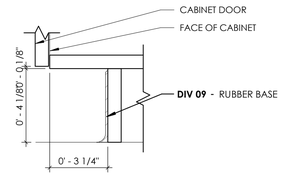
RSN: 1634377
Permit#: 22-2165629-LT



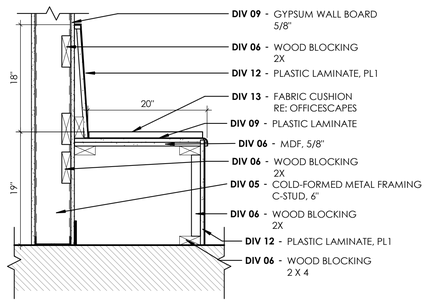
14- GYPSUM BOARD SOFFIT
1 1/2" = 1'-0"



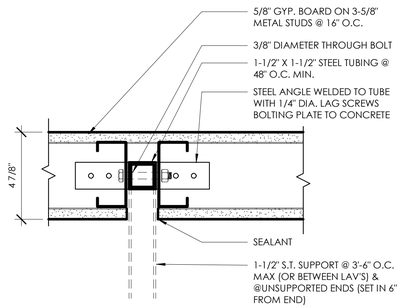
13- SECTION DETAIL - SOLID SURFACE MAT.
3" = 1'-0"



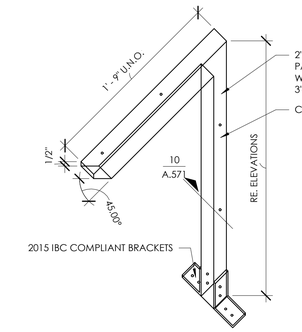
12- SECTION DETAIL - TOEKICK
3" = 1'-0"



11- BENCH DETAIL
1" = 1'-0"



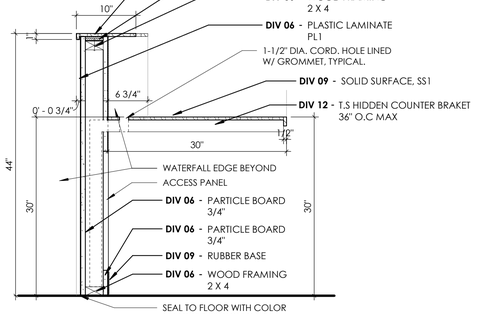
10- TYPICAL SECTION @ STEEL TUBE SUPPORT
3" = 1'-0"



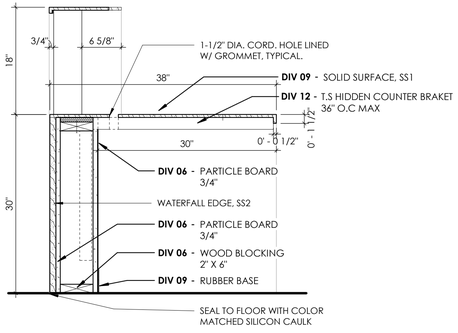
TYPICAL SUPPORT AT ALL COUNTER TOPS

DEPTH OF COUNTERTOP	STEEL TUBE SUPPORT SIZE
2'-0"	1'-10" X 2'-4 1/2"
2'-3"	2'-1" X 2'-4 1/2"
2'-6"	2'-4" X 2' - 4 1/2"
3'-9"	3'-7" X 2' - 4 1/2"

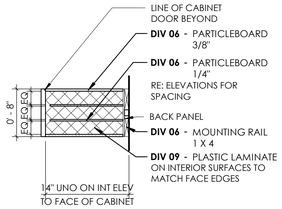
09- STEEL TUBE SUPPORT ISOMETRIC
1 1/2" = 1'-0"



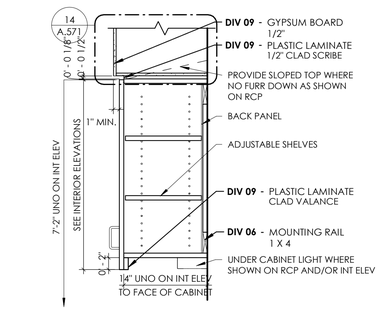
08- SECTION DETAIL @ RECEPTION DESK TRASACTION TOP
1" = 1'-0"



07- RECEPTION DESK SECTION @ WATERFALL EDGE
1" = 1'-0"



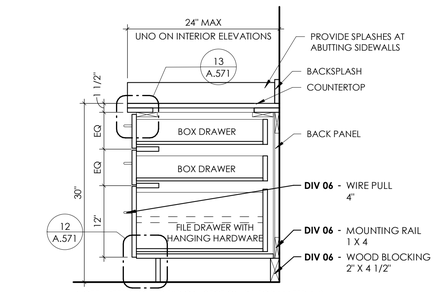
06- UPPER CABINET WITH SLOTS
1" = 1'-0"



NOTE: REFER TO THIS TYPICAL DETAIL E1 FOR MATERIALS AND DIMENSIONS OF TYPE "E" UPPER CABINETS.

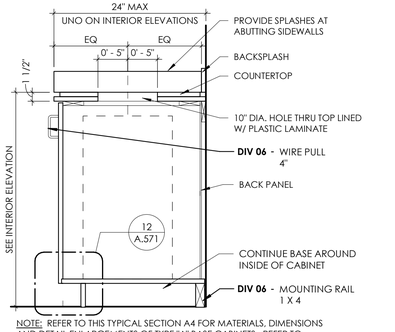
IF CABINET HAS GLASS DOORS REFER TO DETAIL 07/A.572

05- E1 - UPPER CABINET
1" = 1'-0" WITH DOORS



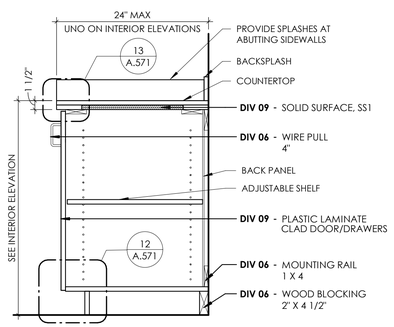
NOTE: REFER TO THIS TYPICAL SECTION D1 FOR MATERIALS, DIMENSIONS AND DETAIL ENLARGEMENTS OF TYPE "D" BASE CABINETS. REFER TO INTERIOR FINISH PLAN FOR COUNTERTOP MATERIAL. REF 01 / A.572 IF PLASTIC LAMINATE, 13 / A.571 IF SIM.

04- D1 - BASE CABINET
1" = 1'-0" 2 BOX, 1 FILE DRAWER



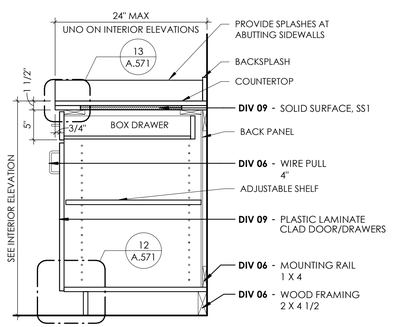
NOTE: REFER TO THIS TYPICAL SECTION A4 FOR MATERIALS, DIMENSIONS AND DETAIL ENLARGEMENTS OF TYPE "A" BASE CABINETS. REFER TO INTERIOR FINISH PLAN FOR COUNTERTOP MATERIAL. IF PLASTIC LAMINATE RE: , IF SOLID SURFACE RE:

03- A4 - BASE CABINET @TRASH
1" = 1'-0"



NOTE: REFER TO THIS TYPICAL DETAIL A1 FOR MATERIALS, DIMENSIONS, ANDDETAIL ENLARGEMENTS OF TYPE "A" BASE CABINETS. REFER TO INTERIOR FINISH PLAN FOR COUNTERTOP MATERIAL. IF PLASTIC LAMINATE RE: 01/A.572, IF SSM RE: 02/A.572

02- A2 - BASE CABINET
1" = 1'-0" WITH DOOR



NOTE: REFER TO THIS TYPICAL DETAIL A1 FOR MATERIALS, DIMENSIONS, ANDDETAIL ENLARGEMENTS OF TYPE "A" BASE CABINETS. REFER TO INTERIOR FINISH PLAN FOR COUNTERTOP MATERIAL. IF PLASTIC LAMINATE RE:01 / A.572, IF SSM RE: 13 / A.571

01- A1 - KNEE SPACE W/ DRAWER
1" = 1'-0" WITH DOOR & 1 DRAWER

ARCHITECTURAL CASEWORK GENERAL NOTES

ALL CASEWORK:

1. ALL SECTION DETAILS ON THIS SHEET MAY NOT APPLY TO THIS PROJECT.
2. REFER TO A.56X SERIES SHEETS FOR ARCHITECTURAL WOODWORK TYPES, WIDTHS, AND HEIGHTS.
3. FIELD VERIFY EXISTING DIMENSIONS PRIOR TO FABRICATION. NOTIFY ARCHITECT OF ANY CONFLICTS OR INCONSISTENCIES PRIOR TO FABRICATION.
4. VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT LOCATED WITHIN OR ADJACENT TO CABINETS.
5. COORDINATE INSTALLATION OF SINKS WITH ASSOCIATED PIPING, FITTINGS, AND WITH INSTALLATION OF ACCESSIBLE COVER PANELS.
6. REQUIRED SCRIBES AND FILLER PIECES SHALL BE INSTALLED TO ALLOW PROPER OPERATION OF DRAWERS/DOORS. THEY SHALL BE EVENLY DISTRIBUTED AND OF EQUAL WIDTH ALONG A SINGLE RUN OF CABINETS. THEY SHALL BE 3" WIDE, MAXIMUM, EXCEPT INSIDE CORNER FILLERS SHALL BE 2 1/2" WIDE, MINIMUM. REFER TO SERIES A.57X FOR TYPICAL CASEWORK DETAILS AND INSIDE CORNER DETAIL.
7. WHERE BASE CABINETS INTERSECT AT INSIDE CORNER CONDITION, PROVIDE WALL MOUNTED LEDGERS TO SUPPORT COUNTERTOP AT CORNERS. WHERE UPPER CABINETS INTERSECT AT INSIDE CORNER CONDITION, PROVIDE HORIZONTAL FILLER PANEL FLUSH WITH BOTTOM OF CABINETS.
8. PROVIDE PLASTIC SCREW COVERS TO CONCEAL SCREW HEADS AT ALL SEMI-EXPOSED CABINET SURFACES. ALL EXPOSED SCREWS SHALL BE COUNTERSUNK.
9. CORE MATERIAL FOR SHELVING GREATER THAN 30" WIDE SHALL BE 1" THICK.
10. REFER TO A.500 SERIES FOR TOILET ACCESSORY LEGEND AND MOUNTING HEIGHTS.
11. PROVIDE FILLER PANELS AS NEEDED BETWEEN BUILT-IN APPLIANCES AND ADJACENT CABINETS OR WALLS.
12. ALL VERTICAL JOINTS BETWEEN CABINETS SHALL BE BUTT JOINTS. THEY SHALL LOOK "SEAMLESS" AND BE COVERED IN PLASTIC LAMINATE.
13. ALL EXPOSED SURFACES ON CABINETS WITHOUT DOORS SHALL BE CLAD IN PLASTIC LAMINATE, UNLESS NOTED OTHERWISE. NO EXPOSED MELAMINE, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.

BASE CABINETS:

1. PROVIDE PLASTIC LAMINATE CLADDING ON ALL SURFACES OF BUILT-IN DESKS AT KNEE SPACES AND EXPOSED ENDS OF DESK, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
2. PROVIDE SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES, AND ENDS OF ALL FIXED CABINETS, PEDESTALS, VERTICAL SUPPORT PANELS, AND KNEE SPACES, ETC. UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
3. ALL DRAWER LENGTHS SHALL BE 20", UNLESS NOTED OTHERWISE. ALL DRAWERS GREATER THAN 30" WIDE SHALL HAVE TWO PULLS.
4. ALL HORIZONTAL AND VERTICAL REVEALS SHALL BE 1/8".
5. ALL TOEKICK SPACES SHALL BE 4 1/8" TALL X 3 1/4" DEEP, UNLESS NOTED OTHERWISE. REFER TO SERIES A.57X FOR TYPICAL CASEWORK DETAILS.

COUNTERTOPS:

1. ALL COUNTERTOPS ARE TO BE 24" DEEP, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS.
2. ALL OUTSIDE COUNTERTOP CORNERS TO BE 1 1/2" RADIUS (IN PLAN), UNLESS NOTED OTHERWISE. REFER TO SERIES A.57X FOR TYPICAL CASEWORK DETAILS AND COUNTERTOP CORNER DETAIL.
3. PROVIDE WALL MOUNTED BRACKETS, FIELD PAINTED, FOR SUPPORT OF COUNTERTOPS AT KNEE SPACES. COUNTERTOPS SHALL BE SUPPORTED 30" MINIMUM - 36" MAXIMUM O.C. COORDINATE LOCATION WITH KEYBOARD TRAYS AND CPU HOLDERS. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF COUNTERTOP BRACKETS.
4. LOCATE GROMMETS AT BACK OF COUNTERTOPS EVERY 36" O.C. WITH A MINIMUM OF 1 PER KNEE SPACE, UNLESS NOTED OTHERWISE ON EQUIPMENT PLAN. COORDIANTE FINAL GROMMET LOCATIONS WITH OWNER. EXCEPTION: DO NOT PROVIDE GROMMETS AT ACCESSIBLE PORTION OF COUNTER. AS INDICATED ON EQUIPMENT PLAN.
5. REFER TO INTERIOR ELEVATIONS AND FINISH LEGEND FOR COUNTERTOP MATERIAL. ALL COUNTERTOPS AT SINKS TO BE SOLID SURFACE MATERIAL, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. REFER TO SERIES A.57X FOR SOLID SURFACE MATERIAL COUNTERTOP EDGE DETAIL AND FOR PLASTIC LAMINATE COUNTERTOP EDGE DETAIL.
6. ALL BACK AND SIDE SPLASHES SHALL BE 4" TALL X 3/4" THICK IF PLASTIC LAMINATE, 1/2" THICK IF SOLID SURFACE MATERIAL, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. ALL SPLASHES SHALL BE SCRIBED TO CONFORM TO THE SURFACE OF ABUTTING WALLS. ALL SPLASHES SHALL BE SEALED TO THE WALL WITH CLEAR SILICONE SEALANT. IF SOLID SURFACE, PROVIDE SPLASHES ON ALL REAR AND SIDE WALLS AT BASE CABINETS.

UPPER CABINETS:

1. TOP OF UPPER AND FULL HEIGHT CABINETS SHALL BE 7'-2" AFF, UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. REFER TO INTERIOR ELEVATIONS.
2. REFER TO SERIES A.220 AND A.560 FOR FURR DOWN LOCATIONS. WALL CABINETS WITHOUT A FURR DOWN ABOVE SHALL RECEIVE A CONTINUOUS 6" HIGH SLOPED PANEL, FINISHED TO MATCH CABINETS, UNLESS NOTED OTHERWISE.
3. WALL MOUNTED UPPER CABINETS SHALL INCLUDE ADJUSTABLE SHELVES, UNLESS NOTED OTHERWISE.

CABINET HEIGHT	NUMBER OF SHELVES
UP TO 24"	1
25" THROUGH 42"	2
43" THROUGH 48"	3

4. TOPS AND BOTTOMS OF WALL HUNG CABINETS SHALL BE 3/4" THICK WITH PLASTIC LAMINATE ON ALL EXPOSED SURFACES.
5. BACKS OF WALL HUNG CABINETS SHALL BE 1/4" THICK, UNLESS NOTED OTHERWISE. BACKS OF BASE CABINETS SHALL BE 1/4" THICK, UNLESS NOTED OTHERWISE.

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

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No.	Description	Date

STATE OF COLORADO
JOHN MENNO HACKETT
401729
LICENSED ARCHITECT
05/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title
TYPICAL CASEWORK SECTIONS & DETAILS

Sheet Number
A.571

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RSN: 1634377
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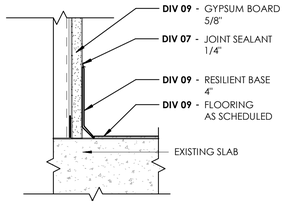
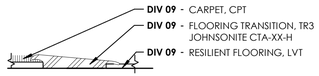
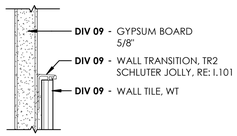


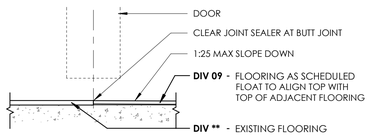
06-RB1 - TYPICAL RUBBER BASE
3" = 1'-0"



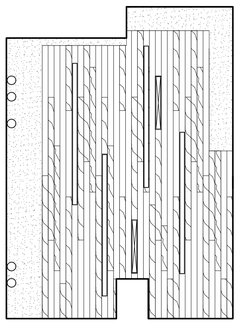
05-TR3 - WHEELED TRANSITION- CARPET TO RESILENT
6" = 1'-0"



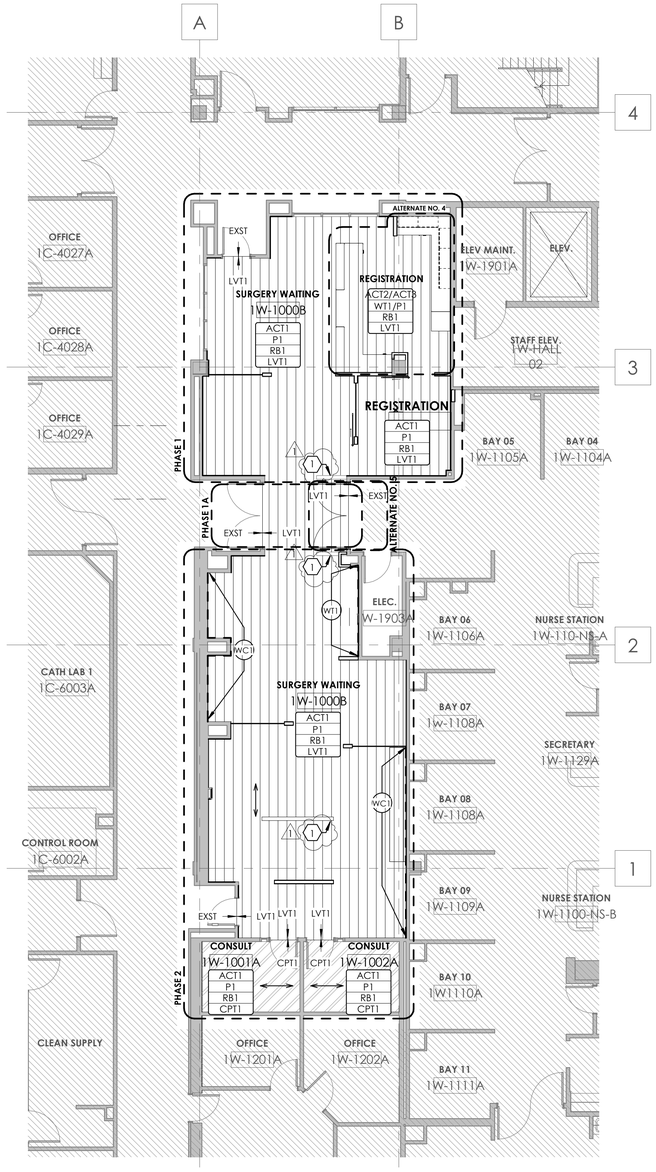
04-TR2 -TILE TO GYP WALL
6" = 1'-0"



03-TR1 RESILIENT TO EXISTING FLOORING TRANSITION
6" = 1'-0"



02-ENLARGED CEILING PATTERN PLAN OVER REGISTRATION
1/4" = 1'-0"
ALTERNATE NO. 4



01-LEVEL 01 - FINISH PLAN
1/8" = 1'-0"

FINISH LEGEND

CEILINGS

ACT1
MANUF: ARMSTRONG
TILE STYLE: DUNE
TILE MODEL: #1796
TILE SIZE: 24" X 48" X 5/8"
TILE COLOR: WHITE
GRID STYLE: 15/16" SQUARE LAY-IN
GRID COLOR: WHITE

ACT2 (ALTERNATE NO. 4)
MANUF: ARMSTRONG
STYLE: METAL WORKS LINEAR SYNCHRO
SIZE: 8223W04M1 4" X 96" X 1"
FINISH: EFFECTS SEA SALT, M1 UNPERFORATED
*NOTE: 50% BLEND WITH ACT3, RANDOM PATTERN INSTALL

ACT3 (ALTERNATE NO. 4)
MANUF: ARMSTRONG
STYLE: METAL WORKS LINEAR SYNCHRO
SIZE: 8223W04M1 4" X 96" X 1"
FINISH: GLOBAL WHITE, M1 UNPERFORATED
*NOTE: 50% BLEND WITH ACT2, RANDOM PATTERN INSTALL

GYP
P3
MANUF: SHERWIN WILLIAMS
COLOR: DOVER WHITE SW6385
FINISH: EGGSHELL

MILLWORK

PL1
MANUF: WILSONART
COLOR: NEOWALNUT
FINISH: SATIN
EDGE: EDGE BANDING TO MATCH

SS1
MANUF: CORIAN
COLOR: SPARKLING WHITE
SIZE: 1/2" THICK

DOORS AND FRAMES

PL1
MANUF: WILSONART
COLOR: NEOWALNUT
FINISH: SATIN
EDGE: EDGE BANDING TO MATCH

ACR1 (ALTERNATE NO. 5)
MANUF: ACROVYN
STYLE: DOOR CLADDING
COLOR: NORTHERN OAK 376

P2 (FRAMES)
MANUF: SHERWIN WILLIAMS
COLOR: TAUPE TONE SW 7633
FINISH: LATEX SEMI-GLOSS

FLOORING

RESILIENT
LVT1
MANUF: MANNINGTON
STYLE: SPACIA, ABSTRACT
COLOR: LINEN WEAVE #SS5A3800
SIZE: 12" X 18" X 0.096" THICK

CARPET
CPT1
MANUF: MOHAWK GROUP
STYLE: EXPEDITION, DIGITAL TERRAIN GT341
COLOR: 739 GLACIER
SIZE: 12" X 36"

TRANSITIONS

TR1 RESILIENT TO EXISTING

TR2 WALL TILE TO GYP
MANUF: SCHLUTER
STYLE: SCHIENE
COLOR: ANODIZED ALUMINUM

TR3 LVT TO CPT
MANUF: JOHNSONITE
STYLE: #CTA-XXX-C
COLOR: TO BE SELECTED DURING SUBMITTALS
SIZE: 1/4" TO 1/8"

WALL BASE

RB1
MANUF: MANNINGTON
STYLE: 4" COVE BASE X 120' ROLL
COLOR: 527 CLAY
NOTE: MITER INSIDE CORNERS. DO NOT USE PREMOLDED OUTSIDE CORNERS

WALLS

PAINT
P1
MANUF: SHERWIN WILLIAMS
COLOR: AMAZING GRAY SW7044
FINISH: SATIN

WALL COVERING
WC1 (ALTERNATE NO. 3)
MANUF: CARNEGIE
COLOR: FRAGMENT EMBOSS 6362 820

WALL TILE
WT1 (ALTERNATE NO. 2)
MANUF: DATILE
STYLE: PIETRA DIVINA
COLOR: CALACATTA DOLOMITI M079 - CHEVRON
*INSTALLER NOTE: APPLY SEALER PRIOR TO GROUT INSTALLATION

MISCELLANEOUS

(ME) MATCH EXISTING

(E) EXISTING TO REMAIN

FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH LEGEND I.101 FOR FINISH MANUFACTURER AND COLOR INFORMATION.
2. REFER TO I.10x SERIES FOR FLOOR TRANSITION DETAILS.
3. REFER TO A.22x 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

OUT OF SCOPE

P4 FINISH ACCENT

CPT FINISH TAG

FLOORING TRANSITION

FINISH PATTERN LEGEND

FLOOR FINISH

CPT1

LVT1

CEILING FINISH

METALWORKS ACT2

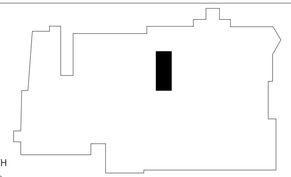
METALWORKS ACT3

FINISH PLAN KEYNOTES

1 1 SS1 CAP PONY WALL CAP

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

KEY PLAN



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No.	Description	Date
1	Addendum 01	07/06/2022

STATE OF COLORADO JOHN MENNO HUTT 401729 LICENSED ARCHITECT 07/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST AURORA, CO 80012

Issue	ISSUE FOR CONSTRUCTION
Date	27 MAY 2022
Project Number	21-047
Drawn by	JL
Checked by	SL, JMN

Sheet Title
FINISH PLAN & SCHEDULE

Sheet Number
I.201

7/6/2022 2:44:08 PM

RSN: 1634377
Permit#: 22-2165629-LT

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
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
(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	KTICHEN 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

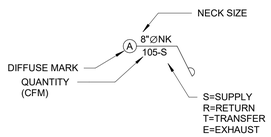
IDENTIFICATION SYMBOLS

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

FIRE DAMPER — FD

CLEAN OUT

MANUAL DAMPER

MOTORIZED (AUTOMATIC) DAMPER — MD

LOW LEAKAGE MOTORIZED DAMPER — LLMD

ACCESS DOOR — AD

CAP

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

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

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 — CONDENSER WATER RETURN

CWS — CONDENSER 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 DRAWING LIST

M.000 - MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES
M.001 - MECHANICAL SPECIFICATIONS
M.002 - PLUMBING NOTES AND SPECIFICATIONS
M.201 - MECHANICAL PLAN
MD.201 - MECHANICAL DEMOLITION PLAN

MECHANICAL CODE REFERENCE

2021 CITY OF AURORA BUILDING CODES AND AMENDMENTS
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

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

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No.	Description	Date

COLORADO LICENSED MECHANICAL & THOMAS JEFFERSON PROFESSIONAL ENGINEER 55150
5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	EV
Checked by	JH

Sheet Title

MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES

Sheet Number

M.000

RSN: 1634377
Permit#: 22-2165629-LT

5/26/2022 9:54:24 PM

MECHANICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

1. HCA MAINTAINS PURCHASING AGREEMENTS FOR SELECT EQUIPMENT AND MATERIALS WHICH ARE OUTLINED IN THE HCA INNOVATION MEMORANDUMS. ALL MATERIALS AND EQUIPMENT PURCHASED UNDER THIS CONTRACT SHALL COMPLY WITH THE INNOVATION MEMORANDUMS. ALL PIPING RELATED ITEMS ARE TO BE PURCHASED THROUGH FERGUSON ENTERPRISE (ALTON LASSITER - 615-316-1848, ALTON.LASSITER@FERGUSON.COM).

2. WORK UNDER THIS SECTION IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS, GENERAL AND SUPPLEMENTARY CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS.

3. THE DRAWINGS AND SPECIFICATIONS SHALL BE UNDERSTOOD TO COVER SYSTEMS OF HEATING, VENTILATION AND AIR CONDITIONING, INSULATION, BUILDING AUTOMATION SYSTEMS AND TEMPERATURE CONTROL, AND TESTING AND BALANCING. THE DRAWINGS AND SPECIFICATIONS ARE TO BE TAKEN TOGETHER. WORK SPECIFIED AND NOT SHOWN, OR WORK SHOWN AND NOT SPECIFIED, SHALL BE AS BINDING AS THOUGH REQUIRED BY BOTH THE DRAWINGS AND SPECIFICATIONS.

4. MINOR ITEMS AND ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARY TO THE COMPLETE AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED FOR SUCH SYSTEMS, WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR THE DRAWINGS.

5. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSE FEES, MAKE ARRANGEMENTS FOR INSPECTIONS, PAY ALL FEES IN CONNECTION THEREWITH, EXCEPT BUILDING PERMIT, AND PAY ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES.

6. THE CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR IN ACCORDANCE WITH THE GENERAL CONDITIONS, UNLESS A LONGER PERIOD IS STIPULATED UNDER SPECIFIED HEADINGS. HE SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY MATERIAL OR EQUIPMENT DEVELOPING DEFECTS. REPAIRS OR REPLACEMENTS SHALL BEAR AN ADDITIONAL TWELVE (12) MONTHS GUARANTEE FROM THE TIME THE REPAIR OR REPLACEMENT IS COMPLETE. THIS REQUIREMENT SHALL BE BINDING, EVEN THOUGH IT WILL EXCEED PRODUCT GUARANTEES NORMALLY FURNISHED BY SOME MANUFACTURERS.

7. THE CONTRACTOR SHALL SUBMIT HIS OWN AND EACH MANUFACTURERS' WRITTEN CERTIFICATES AND WARRANTIES WHICH INDICATE THAT EACH ITEM OF EQUIPMENT FURNISHED, COMPLIES WITH ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. GUARANTEES AND WARRANTIES SHALL COMMENCE FROM THE DATE OF THE SIGNED ACCEPTANCE BY THE OWNER OF A PARTICULAR ITEM OF EQUIPMENT OR A PARTICULAR DEFINED PORTION OF THE WORK.

8. ALL WORK SHALL BE INSTALLED IN CONFORMITY WITH ALL GOVERNMENTAL JURISDICTIONAL AUTHORITIES REGULATIONS, LAWS, RULES, OR ORDINANCES IN EFFECT AND GOVERNING SAME; SUCH RULES AND REGULATIONS AND LOCAL ORDINANCES TO BE CONSIDERED PART OF SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL BE HELD STRICTLY RESPONSIBLE FOR ANY VIOLATION AND SHALL CHANGE HIS WORK TO CONFORM WITHOUT ADDITIONAL COST TO OWNER.

9. ALL WORK SHALL ALSO CONFORM TO THE PUBLISHED STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AND ELECTRICAL WORK AND EQUIPMENT SHALL CONFORM TO REQUIREMENTS OF THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE. ALL MATERIALS, IN GENERAL, SHALL BE UNDERWRITERS' LABORATORIES LISTED AND SHALL BEAR UL LABEL WHERE LABELING SERVICE IS AVAILABLE.

10. WHERE JURISDICTIONAL RULES REQUIRE ASSISTANCE OF MECHANICS OF TRADES OTHER THAN THOSE ORDINARILY EMPLOYED BY A PARTICULAR MECHANICAL CONTRACTOR IN THE HANDLING, STORAGE OR SETTING OF SPECIAL EQUIPMENT, THE MECHANICAL CONTRACTOR SHALL EMPLOY SUCH TRADESMEN SO AS TO BE IN CONFORMANCE WITH LOCAL JURISDICTIONAL AGREEMENTS.

11. ANY SHUTDOWNS OF HVAC SYSTEMS SHALL BE COORDINATED WITH THE OWNER AND ASSUMED TO TAKE PLACE OVER NIGHTS AND WEEKENDS. ANY WORK REQUIRING OVERTIME SHALL INCLUDE THE COST FOR SUCH OVERTIME WORK AS A PART OF THE BASE BID PROPOSAL.

12. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INTERFERENCE WITH OR DAMAGE TO ANY EXISTING UTILITIES AND SHALL REPAIR OR REPLACE ANY DAMAGED UTILITIES WITH THE LEAST POSSIBLE DELAY AND HOLD THE OWNER HARMLESS IN THE EVENT THAT THERE IS ANY DAMAGE.

13. CERTAIN ITEMS OF EQUIPMENT ARE SPECIFIED ON THE DRAWING EQUIPMENT SCHEDULES OR IN NOTES AS THE PRODUCT OF A SPECIFIC MANUFACTURER INCLUDING THE TRADE NAME, SIZE AND MODEL NUMBER. THIS IS TO ESTABLISH A STANDARD OF QUALITY AND TO MAKE PROVISIONS FOR POWER, SPACE ALLOWANCE, AND CONNECTIONS BY OTHER TRADES.

14. IF ALTERNATE MANUFACTURERS OTHER THAN THOSE NAMED IN THE DOCUMENTS ARE PROPOSED TO BE USED, THE BIDDER SHALL LIST SUCH OTHER ALTERNATE MANUFACTURERS ALONG WITH ANY COST ADDITIONS OR DEDUCTIONS FROM THE BASE BID PROPOSAL. IF THE OWNER ACCEPTS THE ALTERNATE MANUFACTURER, THE CONTRACT WILL SO STATE. IF THE CONTRACT DOES NOT CONTAIN THE NAMES OF ALTERNATE MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT ONLY MANUFACTURERS NAMED IN THE DOCUMENTS.

15. IF THE MECHANICAL CONTRACTOR PROPOSES TO USE THE PRODUCT OF A MANUFACTURER OTHER THAN THE ONE NAMED IN THE DOCUMENTS, HE SHALL BE RESPONSIBLE FOR THAT ITEM OF EQUIPMENT FITTING IN PLACE WITH ADEQUATE CLEARANCES. FURTHER, IF DIFFERENT CONNECTIONS OR PROVISIONS ARE REQUIRED TO BE FURNISHED BY OTHER TRADES FROM THE PRODUCT NAMED IN THE DOCUMENTS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OTHER TRADES OF ANY CHANGES, AND IF ADDITIONAL COSTS ARE REQUIRED BY THE OTHER TRADES, HE SHALL PAY SUCH COSTS.

16. THE ENGINEER HAS NO CONTRACTUAL RESPONSIBILITY IN CONNECTION WITH JOB SITE SAFETY MEASURES OR PRECAUTIONS AS RELATED TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES IN THAT REGARD. THE MECHANICAL CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE ARCHITECT/ENGINEER'S OBSERVATIONS OF THE MECHANICAL CONTRACTOR'S PERFORMANCE ARE NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE MECHANICAL CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE. IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", VOLUME 36, NO.75, PART II OF THE FEDERAL REGISTER BY THE U.S. DEPARTMENT OF LABOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SUCH SAFETY MEASURES AND SHALL CONSULT WITH THE STATE OR FEDERAL SAFETY INSPECTOR FOR INTERPRETATION WHENEVER IN DOUBT AS TO WHETHER SAFE CONDITIONS DO OR DO NOT EXIST; OR WHETHER HE IS OR IS NOT IN COMPLIANCE WITH STATE OR FEDERAL REGULATIONS.

17. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW GENERAL ARRANGEMENT OF ALL EQUIPMENT, PIPING, DUCTWORK, SERVICES, ETC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. FURNISH ALL FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED TO MEET SUCH CONDITIONS AND TO FIT WORK OF OTHER TRADES.

18. FURNISH ONE DIGITAL AND THREE (3) HARD COPY SETS OF SHOP DRAWINGS, SHOWING ALL DETAILS OF CONSTRUCTION FOR THE FOLLOWING:
    - A. DUCTWORK LAYOUTS
    - B. VAV BOXES
    - C. HYDRONIC PIPING ACCESSORIES
    - D. AIR TERMINALS
    - E. CONTROLS
    - F. PRELIMINARY TEST AND BALANCE REPORT
    - G. FINAL TEST AND BALANCE REPORT

19. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE MECHANICAL CONTRACTORS OF BASIC RESPONSIBILITIES UNDER HIS CONTRACT.

20. ALL EQUIPMENT SUBMITTED AS SHOP DRAWINGS SHALL BE APPROVED BY THE GOVERNING JURISDICTIONAL AUTHORITIES PREVIOUS TO SUBMITTAL. SUBMISSION OF A SHOP DRAWING SHALL MEAN THAT APPROVAL HAS BEEN OBTAINED FOR INSTALLATION OF THE EQUIPMENT SUBMITTED FOR REVIEW.

21. AT COMPLETION OF THE PROJECT, ALL CHANGES AND DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE RECORDED BY THE MECHANICAL CONTRACTOR ON AS-BUILT DRAWINGS. SUPPLY TO THE ARCHITECT/ENGINEER DIGITAL COPIES AND FOUR PAPER BLUE LINE SETS.

22. THE OWNER, ARCHITECT, ENGINEER OR OTHERS WHO THEY MAY DESIGNATE SHALL BE PRIVILEGED TO ENTER AND OCCUPY THE BUILDING OR PORTIONS THEREOF, AT ANY TIME PRIOR TO COMPLETION OF THE MECHANICAL WORK WITHOUT PREJUDICE.

23. BEFORE MAKING ANY INSTALLATION, THE MECHANICAL CONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS WHOSE WORK MAY AFFECT THE WORK UNDER THEIR SECTIONS AND MAKE THE NECESSARY CHANGES TO AVOID INTERFERENCES OR IMPROPER EFFECT ON WORK TO BE PERFORMED BY ALL OTHER TRADES. IN THE EVENT THAT INTERFERENCES DEVELOP, THE ARCHITECT'S DECISION WILL BE FINAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR MOVING OF MISPLACED PIPING, DUCTS, CONDUIT AND/OR EQUIPMENT.

24. ALL MATERIALS AND/OR EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

25. EACH MAJOR COMPONENT OF THE EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER AND RATING ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE. THE NAMEPLATE OF A DISTRIBUTING AGENT IS NOT ACCEPTABLE. ASME CODE RATINGS, OR OTHER DATA WHICH IS DIE-STAMPED INTO THE SURFACE OF THE EQUIPMENT SHALL BE IN A VISIBLE LOCATION.

26. USE ONLY NEW MATERIALS OF THE BEST QUALITY OF THEIR RESPECTIVE KINDS; LABOR SHALL BE DONE IN A THOROUGH WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.

27. MATERIALS SHALL BE MANUFACTURED BY REPUTABLE MANUFACTURERS WHO HAVE BEEN PRODUCING THIS TYPE OF MATERIAL TO BE SOLD IN MAJOR CITIES IN THE UNITED STATES FOR A PERIOD OF AT LEAST FIVE (5) YEARS, UNLESS OTHERWISE NOTED HEREIN.

28. THE INSTALLATION OF ANY ACCESS PANEL IS STRICTLY LIMITED TO LOCATIONS AS INDICATED ON THE ARCHITECTURAL DRAWINGS OR APPROVED BY ARCHITECT.

29. FIRE STOPPING SHALL BE REQUIRED AT ALL FLOOR AND FIRE RATED WALL/PARTITION PENETRATIONS. FIRE STOPPING SYSTEMS SHALL BE AS DETAILED ON ARCHITECTURAL DRAWINGS.

30. DUCTWORK BEHIND THE GRILLES, REGISTERS, DIFFUSERS, ETC. WHICH IS EXPOSED TO VIEW THROUGH THE UNITS, SHALL BE GIVEN ONE (1) COAT OF PRIMER AND A FINISH COAT OF FLAT BLACK PAINT.

31. ALL WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT AND SHALL BE PERFORMED ONLY BY SKILLED MECHANICS, RECOGNIZED AS SUCH IN THEIR RESPECTIVE TRADES.

32. FURNISH NECESSARY SCAFFOLDING, STAGING OR CRIBBING REQUIRED FOR THE COMPLETION OF THE WORK. SUCH SCAFFOLDING, ETC., SHALL BE REMOVED FROM THE PREMISES WHEN ITS USE IS NO LONGER REQUIRED ON THE JOB.

33. SHOULD DAMAGE TO ANY MECHANICAL, ELECTRICAL OR ARCHITECTURAL PART OF THE BUILDING OCCUR, PAY ALL COSTS TO THE RESPECTIVE SUBCONTRACTORS AFFECTED ON THE JOB TO MAKE REPAIRS AND/OR TEMPORARY CONNECTIONS REQUIRED.

34. OPENINGS MADE IN A FIRE RATED WALL, CEILING OR FLOOR SHALL BE EFFECTIVELY CLOSED AND REPAIRED SO THE FIRE RATING IS NOT REDUCED BELOW ORIGINAL FIRE RATING REQUIREMENTS.

35. FURNISH 8 COMPLETE PORTFOLIOS TO THE OWNER'S REPRESENTATIVE, CONTAINING AS- BUILT SHOP DRAWINGS, TEST AND BALANCE REPORTS, OPERATING INSTRUCTIONS, WARRANTIES, PARTS LISTS, WIRING DIAGRAMS, ETC., ON ALL EQUIPMENT FURNISHED UNDER THIS CONTRACTOR.

36. THE CONTRACTOR SHALL FURNISH A COMPETENT INSTRUCTOR TO ADVISE THE OWNER'S OPERATING PERSONNEL AS TO THE PROPER OPERATION, SERVICING, ETC., OF ALL EQUIPMENT AND SYSTEMS INSTALLED.

37. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL CLEAN ALL OF HIS WORK, EQUIPMENT, ETC., FREE FROM DUST, ETC., AND LEAVE THE WORK IN GOOD HOUSEKEEPING FASHION IN A MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. PROVIDE NECESSARY FITTINGS, LAMPS, VALVES, ETC., AND LEAVE THE WORK CLEAN AND IN PERFECT OPERATING CONDITION.

38. WHEN DIRECTED, DURING CONSTRUCTION PERIOD, OPERATE SYSTEM WITH ALL FILTERS IN PLACE AND ALL CAULKING COMPLETE. DO NOT OPERATE OR PERMIT SUPPLY SYSTEM TO BE OPERATED WITHOUT FILTERS.

39. UNDER NO CIRCUMSTANCES SHALL ANY ITEMS OF NEW AIR HANDLING EQUIPMENT BE OPERATED FOR TEMPORARY HEAT OR VENTILATION WITHOUT FILTERS IN PLACE. IF THE UNIT IS USED BEFORE CONSTRUCTION IS COMPLETED, THE FILTERS SHALL BE REPLACED, THE UNIT AND COILS SHALL BE CLEANED AND THIS SET OF FILTERS SHALL NOT BE CONSIDERED AS THE SPARE SET OF FILTERS.

40. THE CONTRACTORS SHALL PROVIDE TEMPORARY HEAT AS REQUIRED FOR CONSTRUCTION AND FREEZE PROTECTION.

41. ALL TENDERS SUBMITTED ON THESE DRAWINGS AND SPECIFICATIONS SHALL BE BASED ON NEW MATERIALS AND APPARATUS OF MAKE AND QUALITY AS SPECIFIED. IF THE CONTRACTOR DESIRES, HE MAY ALSO TENDER ON MATERIALS AND APPARATUS WHICH SHALL BE OF SAME QUALITY AND OF SIMILAR SPECIFICATIONS TO THOSE AS HEREIN SPECIFIED, IN WHICH CASE HE SHALL STATE IN HIS TENDER ALL ADDITIONS OR DEDUCTIONS INVOLVED IN THE ALTERNATE MATERIALS AND APPARATUS, AND SHALL SPECIFY THE NAME OR MAKE ON WHICH HIS ALTERNATE IS BASED. WHEN NO ALTERNATES ARE GIVEN OR ACCEPTED PRIOR TO CONTRACT AWARD, THE MAKE SPECIFIED SHALL BE INSTALLED.

HVAC SYSTEM

1. THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE TO COVER THE FURNISHINGS OF ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, SERVICE PERMANENT AND TEMPORARY FACILITIES AS NECESSARY TO THE HEATING AND AIR CONDITIONING WORK INVOLVED IN THE FURNISHING, INSTALLING, TESTING, ADJUSTING, RETESTING, READJUSTMENT AS REQUIRED AND DIRECTED, AND PLACING INTO APPROVED SATISFACTORY OPERATION THE COMPLETE RESPECTIVE SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY THE JOB CONDITIONS.

2. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL REVIEW THE MEDICAL EQUIPMENT VENDOR FINAL SHOP DRAWINGS FOR COORDINATION AND MEDICAL EQUIPMENT VENDOR EXPECTATIONS.

3. FURNISH AND INSTALL A COMPLETE AND OPERABLE SYSTEM FOR VENTILATING, HEATING AND AIR CONDITIONING CONSISTING OF, BUT NOT LIMITED TO:
    - A. SUPPLY AND EXHAUST/RETURN DUCT SYSTEM
    - B. GRILLES, DIFFUSERS, REGISTERS AND MANUAL VOLUME DAMPERS
    - C. TESTING AND BALANCING

4. FURNISH ACCESS DOORS TO CEILING CONTRACTOR FOR ACCESS TO VALVES AND DAMPERS. ALL CONTROL DEVICES AND DAMPERS ABOVE INACCESSIBLE CEILINGS. LAY IN CEILINGS SHALL BE CONSIDERED ACCESSIBLE. PROVIDE 12"X12" (MIN.) ACCESS DOORS IN DUCTS FOR ACCESS TO FIRE DAMPERS, DUCT MOUNTED APPARATUSES, AND WHERE INDICATED FOR MAINTENANCE.

5. FURNISH AND INSTALL ALL INSULATION AS SPECIFIED.

6. FURNISH CUTTING AND CORING FOR INSTALLATION OF DUCTS AND EQUIPMENT. APPLICABLE STANDARDS AND CODES OF THE FOLLOWING:

   THE WORK UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF:
    - A. IMC - INTERNATIONAL MECHANICAL CODE
    - B. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
    - C. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING
    - D. ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE
    - E. ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
    - F. AABC - ASSOCIATED AIR BALANCE COUNCIL NFPA -NATIONAL FIRE PROTECTION ASSOCIATION
    - G. SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

7. EXERCISE CARE IN TRANSPORTING AND HANDLING TO AVOID DAMAGE TO FIXTURES, EQUIPMENT AND MATERIALS.

8. STORE MATERIALS ON THE SITE SO AS TO PREVENT DAMAGE.

9. KEEP EQUIPMENT AND MATERIALS CLEAN, DRY AND FREE FROM DELETERIOUS CONDITIONS.

10. ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL OUTSIDE THE SHIELDING. THE DUCTS SHALL BE AIRTIGHT AND SHALL BE ANCHORED, BRACED AND REINFORCED TO PREVENT VIBRATION, LEAKAGE AND OIL CANNING. THE SPACING OF STIFFENERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA.

11. THE DUCTWORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH 1 INCH X 1/8 INCH SOLID GALVANIZED STRAP HANGERS (BOTH SIDES OF DUCT AT POINT OF SUPPORT) WITH GAGES AND SPACING AS SPECIFIED IN SMACNA.

12. UNLESS OTHERWISE NOTED, ALL ROUND ELBOWS SHALL HAVE CENTER LINED RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. IF SPACE DOES NOT PERMIT, THEN PROVIDE 6" THROAT WITH SPLITTER VANES. SEE DUCT CONSTRUCTION DETAILS.

13. ALL DUCTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. DUCTWORK UPSTREAM OF VAV BOXES SHALL BE +4" PRESSURE CLASS. DUCTWORK DOWNSTREAM OF VAV BOXES SHALL BE +2" AND ALL EXHAUST/RETURN DUCTWORK SHALL BE -2" PRESSURE CLASS. ALL DUCTWORK SHALL BE SEAL CLASS A.

14. ALL DUCTWORK SHALL BE 22 GAUGE MINIMUM.

15. ROUND DUCTS AND FITTINGS SHALL BE FACTORY FABRICATED SPIRAL LOCK SEAM DUCT WITH MACHINE FORMED FITTINGS AS MANUFACTURED BY UNITED SHEET METAL. ALL FITTINGS SHALL BE SEALED WITH FIRE RETARDANT DUCT SEALER.

16. FLEXIBLE DUCTS SHALL BE FLEX MASTER OR APPROVED EQUAL. INSULATED FLEXIBLE DUCTS, SECURED WITH WORM DRIVE STAINLESS STEEL CLAMPS. DUCTS SHALL BE U.L. LISTED AND HAVE 2" W.G. GAUGE WORKING PRESSURE. 4'-0" MAXIMUM LENGTH.

17. FOR ALL OPERABLE DEVICES IN WALLS OR ABOVE INACCESSIBLE SUSPENDED CEILINGS, PROVIDE MILCOR ACCESS DOORS WITH SAME KEYED LOCKS AND CONCEALED HINGES. LAY IN CEILINGS ARE CONSIDERED ACCESSIBLE. SIZE AS REQUIRED FOR ACCESS.
    - A. STYLE DW IN DRYWALL NO. 16 GA. FRAME NO. 14 GA. PANEL
    - B. STYLE AP IN PLASTER NO. 16 GA. FRAME NO. 14 GA. PANEL
    - C. STYLE M IN MASONRY NO. 16 GA. FRAME NO. 14 GA. PANEL

18. PROVIDE AN ADJUSTABLE BUTTERFLY OR OPPOSED MULTI BLADE VOLUME DAMPERS IN DUCTWORK ON EVERY BRANCH SERVING AIR TERMINAL DEVICES ON ALL SUPPLY, RETURN AND EXHAUST AIR DUCTWORK. DAMPERS SHALL BE 2 GAGES HEAVIER THAN DUCT IN WHICH THE DAMPER IS INSTALLED. CONSTRUCTION SHALL BE GALVANIZED SHEET METAL. EACH DAMPER SHALL BE PROVIDED WITH DAMPER ROD HELD IN PLACE WITH A CLAMPING DEVICE. VISIBLE END OF THE DAMPER RODS SHALL BE FILE MARKED WITH MARKS PARALLEL TO THE BLADES.

19. FIRE DAMPERS SHALL BE COMPLETE WITH WALL FRAME, SLEEVES, ANGLE IRON STOPS, LATCHES, SPRINGS AND FUSIBLE LINK, ETC., AND SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS REQUIRED IN ACCORDANCE WITH NATIONAL BUREAU OF FIRE UNDERWRITER REGULATION BULLETIN 90-A. AND THE CITY OF CHICAGO FIRE PREVENTION BUREAU. THE FIRE DAMPERS SHALL BEAR UL LABEL. FIRE DAMPER SHALL BE 98% FREE AREA, AND BE OF THE LOW RESISTANCE TYPE WITH 1-1/2 HOUR OR 3 HOUR FIRE RATING CORRESPONDING TO THE ASSOCIATED WALL/BARRIER RATING AS MANUFACTURED BY PHILLIPS-AIRE AMERICAN WARNING AND VENTILATING, INC., AIR BALANCE, INC., OR RUSKIN MANUFACTURING.

20. ALL SUPPLY, RETURN, AND EXHAUST AIR OUTLETS SHALL BE MOUNTED TIGHTLY WITH RUBBER GASKETS TO PREVENT AIR LEAKAGE.

21. OUTLETS SHALL BE SELECTED AND GUARANTEED BY THE MANUFACTURER TO HANDLE THE AIR QUANTITIES AS SHOWN ON THE DRAWINGS WITH MAXIMUM PRESSURE DROP THROUGH THE OUTLET NOT EXCEEDING 0.10 IN OF WATER.

22. UNLESS OTHERWISE NOTED, DIFFUSERS, REGISTERS OR GRILLES SHALL BE FABRICATED FROM ALUMINUM OR STEEL AND SHALL BE PROVIDED WITH A FINISH COAT OF WHITE BAKED ENAMEL PAINT, UNLESS NOTED OTHERWISE. DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS MANUFACTURED BY TITUS, OR APPROVED EQUAL.

23. DRILLED-IN THREADED INSERTS: PHILLIPS "REDHEAD" DRILLED-IN THREADED INSERTS SHALL BE PROVIDED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

24. PROVIDE ANCHOR BOLTS, NUTS SLEEVES FOR ANCHORING FANS, MOTORS AND ANY OTHER POWER-OPERATED EQUIPMENT.

25. ALL CONDITIONED SUPPLY AIR DUCTS SHALL BE INSULATED WITH 1 1/2" THICK FIBERGLASS INSULATION.

DUCTWORK:

1. DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED & INSTALLED IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION HVAC DUCT CONSTRUCTION STANDARDS, EXCEPT AS FOLLOWS:

2. INTERNAL LINING OF DUCTWORK SHALL NOT BE PERMITTED.

3. DUCTWORK THICKNESS SHALL BE 22 GAUGE MINIMUM EXCEPT FOR THE FOLLOWING:
    - A. WHERE ANY WELDING OTHER THAN LONGITUDINAL SEAM IS PERFORMED, THE THICKNESS SHALL BE 18 GAUGE MINIMUM.

4. ROUND:
    - A. ROUND DUCTS MAY BE SPIRAL OR LONGITUDINAL SEAM. LONGITUDINAL SEAMS SHALL BE CONTINUOUSLY WELDED. SNAPLOCK SEAMS ARE NOT PERMITTED.
    - B. CRIMP JOINTS ARE NOT PERMITTED.
    - C. PLEATED ELBOWS ARE NOT PERMITTED.
    - D. ADJUSTABLE ELBOWS ARE NOT PERMITTED.
    - E. MITERED ELBOWS WITH TURNING VANES ARE NOT PERMITTED IN ROUND DUCTWORK. USE RADIUS ELBOWS WITH CENTERLINE RADIUS AT LEAST AS GREAT AS THE DUCT WIDTH.

5. RECTANGULAR:
    - A. BUTTON PUNCH SNAPLOCK SEAMS ARE NOT PERMITTED.
    - B. TRANSVERSE (GIRTH) JOINTS T-4, 9, 17, 18, 20, AND 23 ARE NOT PERMITTED.
    - C. MITERED ELBOWS WITH TURNING VANES ARE PERMITTED ONLY WHERE RADIUS ELBOWS WITH CENTERLINE RADIUS AT LEAST AS GREAT AS THE DUCT WIDTH IS NOT POSSIBLE.

6. SIZES OF NEW DUCT SHOWN ON DRAWINGS ARE FREE AIRWAYS SIZES, NOT OUTSIDE DIMENSIONS.

7. TEES SHALL HAVE 45^{O} BOOTS AND TAPS ARE TO BE CONICAL.

8. FOR FINAL CONNECTIONS TO DIFFUSERS AND MODULATING DAMPER BOXES, FLEXIBLE DUCTS MAY BE USED FOR A MAXIMUM OF 2'-0" FEET. FLEXIBLE DUCTS SHALL BE U.L. LISTED, WITH 1" THICK FIBERGLASS INSULATION W/ VAPOR BARRIER. INSTALL FULLY EXTENDED W/ A MAXIMUM OF ONE 90° CHANGE OF DIRECTION, IN LENGTHS NO GREATER THAN NECESSARY. USE GENEROUS RADIUS TURNS AND SUPPORT AS REQUIRED TO PREVENT EXCESSIVE SAGGING. FLEXIBLE ELBOWS AT THE DIFFUSER INLET IS NOT PERMITTED.

9. PROVIDE ADJUSTABLE OPPOSED BLADE OR BUTTERFLY DAMPERS FOR ALL NEW LOW PRESSURE SUPPLY & RETURN BRANCHES. EXTRACTORS AND SPLITTER DAMPERS ARE NOT PERMITTED.

10. SEAL ALL JOINTS OF NEW DUCTWORK. INSPECT EXISTING DUCTWORK FOR LEAKS & REPORT RESULTS BEFORE CONNECTING NEW DUCTWORK. ALL DUCTWORK WITHIN THE CONSTRUCTION LIMIT LINE IS SUBJECT TO LEAK TESTS AS REQUIRED AND WITNESSED BY THE OWNER. SEE LATEST BUILDING CONSTRUCTION STANDARDS FOR SPECIFIC TESTING REQUIREMENTS. ALL MEDIUM PRESSURE DUCTWORK UPSTREAM OF VAV AND FAN POWERED BOXES SHALL BE 3" W.G. PRESSURE CLASS, SEAL CLASS A. DUCT SEALANT SHALL BE WATER-BASED-UNITED McGILL OR APPROVED EQUAL. PRESSURE SENSITIVE TAPE IS UNACCEPTABLE. GASKETED FLANGES SHALL BE SEALED WITH A MASTIC.

11. PROTECT NEW & EXISTING DUCT OPENINGS FROM DUST & DIRT. CLEAN INSIDE & OUTSIDE OF NEW & EXISTING DUCTWORK IN AREA OF NEW WORK. REPLACE FILTERS AS REQUIRED DURING CONSTRUCTION PERIOD AND PROVIDE NEW SETS OF FILTERS AFTER COMPLETION OF WORK.

12. INSULATION
    - A. INSULATION SHALL BE OWENS-CORNING, CERTAINTEED, ARMSTRONG, OR GUSTIN-BACON. NEW SUPPLY AIR DUCTWORK ABOVE CEILINGS SHALL BE INSULATED WITH MIN. 1-1/2" THICK, 1# DENSITY FIBERGLASS WRAP WITH FIRE RETARDANT VAPOR-BARRIER COVERING TO PROVIDE A MAXIMUM INSTALLED CONDUCTANCE OF 0.16.
    - B. OVERLAP ALL SEAMS AND JOINTS & SECURE WITH MANUFACTURER APPROVED ADHESIVE TO PROVIDE CONTINUITY OF VAPOR BARRIER.
    - C. ALL NEW SUPPLY DUCTWORK SHALL BE INSULATED.

TEMPERATURE CONTROLS:

1. EXISTING TEMPERATURE CONTROLS SYSTEM BY JOHNSON CONTROLS INC TO REMAIN. NEW EQUIPMENT TO TIE INTO EXISTING BAS.

2. COORDINATE ALL CONTROL WIRING AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. CONTROL CONTRACTOR SHALL TERMINATE ALL POWER AND CONTROL WIRING TO CONTROL DEVICES.

TESTING AND BALANCING OF AIR SYSTEMS:

1. TESTING AND BALANCING OF AIR SYSTEMS SHALL BE PERFORMED BY AN INDEPENDENT SUB-CONTRACTOR DIRECT TO THE GENERAL CONTRACTOR SPECIALIZING IN SUCH WORK AND IS A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL.

2. BALANCE AND TESTING SHALL NOT BEGIN UNTIL EACH SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER. CONTRACTORS SHALL PUT ALL THEIR EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

3. TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH THE SMACNA MANUAL OR THE AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION AND THE LEGACY SPECIFICATIONS, SECTION.

4. UPON COMPLETION OF THE WORK, THE BALANCE CONTRACTOR SHALL COMPILE ALL TEST DATA AND SUBMIT 8 TYPEWRITTEN COPIES OF THE COMPLETE TEST DATA TO THE ARCHITECT FOR EVALUATION AND APPROVAL. ALL REPORTS SHALL BE MADE ON FORMS AS RECOMMENDED BY EITHER AGENCY.

5. THE BALANCE CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS, AND BALANCE EACH SYSTEM IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
    - A. ADJUST ALL SUPPLY, RETURN AND EXHAUST AIR DUCTS TO PROPER DESIGN AIR FLOWS.
    - B. ADJUST AND RECORD ALL ZONES TO PROPER DESIGN AIR FLOWS, BY MEANS OF DUCT TRAVERSE METHOD.
    - C. TEST AND ADJUST EACH DIFFUSER, GRILLE AND REGISTER TO WITHIN PLUS OR MINUS 10% OF DESIGN REQUIREMENTS. EACH GRILLE, DIFFUSER AND REGISTER SHALL BE IDENTIFIED AS TO LOCATION, SIZE, TYPE, MANUFACTURER OF AND ALL TESTED EQUIPMENT SHALL BE IDENTIFIED AND LISTED. MANUFACTURER'S RATINGS ON ALL EQUIPMENT SHALL BE USED TO MAKE REQUIRED CALCULATIONS AND FINAL DATE BALANCED.
    - D. READINGS AND TEST OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY, TEST RESULTANT VELOCITY, REQUIRED CFM, TEST RESULTANT CFM AFTER ADJUSTMENTS AND FINAL DATE BALANCED.
    - E. IN COOPERATION WITH THE EQUIPMENT OR CONTROL MANUFACTURER'S REPRESENTATIVE, ADJUST AUTOMATICALLY OPERATED DAMPERS TO OPERATE AS SPECIFIED, INDICATED AND/OR NOTED.
    - F. ADJUST ALL DIFFUSERS, GRILLES AND REGISTERS TO PROVIDED PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS IN ALL AREAS.
    - G. ADJUSTMENT OF ALL DAMPERS, FANS OR BLOWER SPEED, BELT TENSION, ETC., SHALL BE BY THIS CONTRACTOR. PROVIDE NEW SHEAVES OR BELTS IF REQUIRED FOR BALANCING.

6. AFTER THE AIR BALANCING WORK HAS BEEN COMPLETED, IT MAY BE NECESSARY TO PROVIDE COMFORT REBALANCE. THIS CONTRACTOR SHALL PROVIDE ALL BALANCE WORK FOR READJUSTMENTS.

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

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No.	Description	Date

5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	EV
Checked by	JH

Sheet Title

MECHANICAL SPECIFICATIONS

Sheet Number

M.001

PLUMBING NOTES

PART 1 - BASIC REQUIREMENT

1.01 RELATED REQUIREMENTS

A. THIS SPECIFICATION SHALL CONTROL ALL LABOR, SERVICES, MATERIALS AND EQUIPMENT AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING AND MEDICAL GAS WORK AS SPECIFIED IN THE FOLLOWING.

B. DEFINITIONS:

1. "PIPING" INCLUDES, IN ADDITION TO PIPE, ALL FITTINGS, VALVES, PIPE COVERING, HANGERS, AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH PIPING.
2. CONCEALED MEANS HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES OR BURIED.
3. "EXPOSED" MEANS NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
4. "PROVIDE" MEANS TO FURNISH AND INSTALL COMPLETE.

1.02 GENERAL REQUIREMENTS

A. MEDICAL GAS WORK TO COMPLY WITH 2012 EDITION OF NFPA #99 STANDARDS.

B. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO VERIFY SCOPE OF WORK.

C. PRODUCTS AND EXECUTION SHALL BE PROVIDED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM THROUGHOUT THE EXTENT OF THE PROJECT.

D. ALL PRODUCTS AND EQUIPMENT SHALL BE UL LISTED AND APPROVED BY THE FACILITY.

E. ALL NEW DEVICES AND TRIM SHALL COMPLY WITH RECOGNIZED NFPA STANDARDS.

F. EACH MAJOR COMPONENT OR PIECE OF EQUIPMENT TO HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER AND RATING ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE.

G. CODE RATINGS, LABELS OR OTHER DATA WHICH ARE DIE-STAMPED OR OTHERWISE AFFIXED TO THE SURFACE OF THE EQUIPMENT SHALL BE IN VISIBLE LOCATION.

H. CONTRACTOR SHALL COORDINATE PROPOSED WORK WITH EXISTING FIELD CONDITIONS INCLUDING ARCHITECTURAL BUILDING ELEMENTS, STRUCTURAL CONDITIONS, AND EXISTING MECHANICAL AND ELECTRICAL CONDITIONS.

I. CONTRACTOR SHALL ADHERE TO ALL BASE BUILDING AND CURRENT FACILITY STANDARDS AND REQUIREMENTS. SHUT-DOWN OF EXISTING BUILDING SYSTEMS FOR NEW PLUMBING CONNECTIONS SHALL BE AUTHORIZED, SCHEDULED AND PERFORMED IN ACCORDANCE TO BUILDING MANAGEMENT REQUIREMENTS. BUILDING SHALL BE NOTIFIED NO LESS THAN 72 HOURS PRIOR TO ANY SHUT-DOWNS. ACCESS TO AREAS OUTSIDE WORKS SPACES, SUCH AS ADJOINING SPACES AND SPACES IMMEDIATELY BELOW, SHALL BE PERFORMED IN ACCORDANCE TO BUILDING MANAGEMENT REQUIREMENTS.

1.03 WORK INCLUDED

A. INCLUDE ALL COSTS RELATED TO PROVIDE ALL PERMITS, LICENSES, INSPECTIONS, APPROVALS AND OTHER ARRANGEMENTS FOR WORK.

B. PROVIDE DEMOLITION OF EXISTING SYSTEMS INCLUDING REMOVAL OF ALL DEBRIS. COORDINATE WITH BUILDING MANAGEMENT EXISTING EQUIPMENT, FIXTURES OR DEVICES THAT SHALL BE RETAINED, CAREFULLY REMOVE AND TURN OVER TO OWNER. REMOVE ALL PIPING BACK TO ACTIVE SOURCE AND CAP LEAVING NO DEAD ENDS.

C. PRIOR TO DEMOLITION OF EQUIPMENT, FIXTURES OR TRIM, COORDINATE WITH OWNER ANY ITEMS TO BE RETAINED. CAREFULLY REMOVE SUCH ITEMS AND TURN OVER TO OWNER.

D. PROVIDE FIXTURES AS INDICATED ON PLUMBING AND ARCHITECTURAL DRAWINGS. FOR EXACT LOCATION OF FIXTURES, REFER TO ALL ARCHITECTURAL AND CONSULTANT PLANS AND ELEVATIONS.

E. MAKE NEW CONNECTIONS TO EXISTING BRANCH PIPING AS INDICATED ON PLANS AND RISER DIAGRAMS, AND AS NECESSARY TO COMPLETE THE WORK.

F. INSTALL PIPING WITH ADEQUATE PROVISIONS TO CONTROL EXPANSION AND CONTRACTION.

G. PROVIDE AND SET SLEEVES FOR ALL PIPING SYSTEMS PASSING THROUGH WALLS, FLOORS, PARTITIONS, ETC. SLEEVES SHALL BE SIZED AT LEAST TWO PIPE DIAMETERS LARGER THAN PIPING, OR OUTSIDE DIAMETER OF INSULATED PIPING.

H. ARRANGE FOR POWER TO SUPPORT ALL ELECTRICAL RELATED EQUIPMENT AND DEVICES.

I. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO ALL APPLIANCES AND EQUIPMENTS FURNISHED BY OTHERS, INCLUDING ALL REQUIRED DEVICES.

J. PROVIDE ALL CUTTING AND PATCHING OF BUILDING ELEMENTS AS REQUIRED FOR INSTALLATION OF WORK HERE IN SPECIFIED. ALL WORK SHALL BE COORDINATED AND APPROVED BY BUILDING AND ARCHITECTURAL FIELD REPRESENTATIVE PRIOR TO ANY WORK BEING PERFORMED.

K. PROVIDE FIRE-STOP AT ALL FLOOR AND WALL PENETRATIONS AS REQUIRED BY PROJECT PARAMETERS AND LOCAL CODE AUTHORITY.

L. PROVIDE ALL ACCESS PANELS. CONTRACTOR TO GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO ARCHITECT FOR APPROVAL AND FINISH REQUIREMENTS PRIOR TO INSTALLATION.

M. COORDINATE PROPOSED WORK WITH ADDITIONAL TRADES AND OTHERS INVOLVED PRIOR TO ANY INSTALLATION WORK.

N. PROVIDE PIPING IDENTIFICATION MARKERS FOR ALL PIPING SYSTEMS WITH ANSI/ASME STANDARD COLORS AND LABELS. MARKERS SHALL BE INSTALLED 20 FEET ON CENTER MINIMUM AND MARKERS INSTALLED IN EACH ROOM.

O. PROVIDE VALVE TAGS OF BRASS OR STAINLESS STEEL HAVING A MINIMUM OF 1-1/2 INCH DIAMETER. PROVIDE COMPLETED VALVE CHART INDICATING VALVE SERVICE AND LOCATION.

P. PROVIDE AS-BUILT DRAWINGS IN AUTOCAD 2017 FORMAT AT COMPLETION OF PROJECT.

Q. PROVIDE TWO COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS WITH ALL PLUMBING AND MEDICAL GAS EQUIPMENT, FIXTURES, TRIM AND DEVICES, MANUFACTURER'S MAINTENANCE INSTRUCTIONS AND MANUALS.

1.04 CLEANING

A. COORDINATE GENERAL CLEANUP WITH BUILDING MANAGEMENT.

B. CLEAN AND FLUSH ALL EXISTING DRAINAGE PIPING TO BE REUSED FOR CONNECTION WITH NEW PIPING.

1.05 FIELD TESTING

A. TESTING SHALL BE IN STRICT COMPLIANCE TO THE PLUMBING CODE.

B. NO WORK SHALL BE ENCLOSED, CONCEALED, COVERED UP OR USED UNTIL THE SYSTEMS HAVE BEEN INSPECTED AND APPROVED BY THE CODE OFFICIALS AND ARCHITECTURAL FIELD REPRESENTATIVE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALL NECESSARY ARRANGEMENTS FOR INSPECTIONS.

C. PROVIDE DISINFECTION OF ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH CODE, HEALTH DEPARTMENT AND APPLICABLE STANDARDS.

PART 2 - BASIC MATERIALS

2.01 PIPES AND FITTINGS

A. ABOVE GROUND DRAINAGE AND VENT PIPING: SERVICE WEIGHT HUBLESS CAST IRON PIPE, THOROUGHLY COATED WITH COAL TAR INSIDE AND OUTSIDE, CONFORMING TO ASTM A74 AND CAST IRON SOIL INSTITUTE STANDARD 301. FITTINGS SHALL BE HUBLESS CAST IRON SOIL FITTINGS OF THE SAME GRADE AND COATED IN THE SAME MANNER. MAKE ALL JUNCTIONS WITH COMBINATION "Y" AND 1/8 BEND FITTINGS. JOINTS SHALL BE MADE WITH EXTRA HEAVY DUTY HUBLESS COUPLINGS HAVING A STAINLESS STEEL CLAMPS AND SHIELD WITH A MINIMUM OF 4 CLAMPS FOR 4 INCH AND SMALLER PIPING AND 6 CLAMPS FOR 5 INCH AND LARGER PIPING SIMILAR TO HUSKY SERIES 4000 OR SHALL BE MADE WITH MG COUPLING AS MANUFACTURED BY MG PIPING PRODUCTS CO. OR, WHICH IS A CAST IRON COUPLING CONSISTING OF TWO CAST IRON CLAMPS, A NEOPRENE GASKET AND STAINLESS STEEL BOLTS AND NUTS, CONFORMING TO ASTM C564.

B. BELOW GROUND DRAINAGE AND VENT PIPING: SCHEDULE 40 PVC PIPE AND FITTINGS IN ACCORDANCE TO ANSI/ASTM 2665 AND ASTM D1785. JOINTS SHALL BE PRIMED AND SOLVENT WELDED IN ACCORDANCE TO ANSI/ASTM D2564. ALL PIPE, FITTINGS AND JOINING MATERIAL SHALL BE PROVIDED FROM ONE MANUFACTURER. HANGERS SHALL BE NON-ABRASIVE AND SPACED IN ACCORDANCE TO THE MANUFACTURER'S INSTRUCTIONS.

C. COPPER WATER PIPE AND FITTINGS - 3 INCH AND SMALLER: PIPE SHALL BE HARD TEMPERED, SEAMLESS COPPER TUBING, TYPE "L" CONFORMING TO ASTM STANDARD B-88. FITTINGS IN COPPER TUBING 2-1/2 INCH AND SMALLER SHALL BE WROUGHT SWEAT TYPE FITTINGS MANUFACTURED OF SEAMLESS TUBING FORGED BRONZE OR BRASS ROD TO MEET SAME STANDARD B16.22. ALL FITTINGS IN COPPER TUBING 3-INCH AND LARGER MAY BE CAST RED BRONZE SOLDER TYPE FITTINGS MEETING ASTM STANDARD B16.18. IN ALL CASES WHERE COPPER PIPE CONNECTIONS ARE MADE TO PIPING OR AN ITEM OF EQUIPMENT OF A DISSIMILAR METAL, PROVIDE SOLID BRASS THREADED TRANSITION PIECES IF CONNECTION WILL BE CONCEALED. IF NOT CONCEALED, USE DIELECTRIC UNIONS. ALL JOINTS SHALL BE SOLDERED IN ACCORDANCE WITH THE COPPER DEVELOPMENT ASSOCIATION COPPER TUBE HANDBOOK USING 'LEAD-FREE' SOLDER.

2.02 INSULATION

A. INSULATION SHALL COMPLY WITH APPLICABLE ENERGY CODE.

B. INSULATION FOR WATER PIPING 2-INCH AND SMALLER: 1 INCH THICK TYPE I GRADE A GLASS FIBER PREFORMED PIPE INSULATION IN ACCORDANCE TO ASTM C 547 WITH FACTORY APPLIED VAPOR BARRIER ALUMINUM BACKING IN ACCORDANCE TO ASST. C 1136. FITTINGS SHALL BE FIELD INSULATED AND COVERED WITH PREFORMED PVC JACKETS. SEALANT AND ADHESIVES SHALL BE IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

C. INSULATION SHALL RUN UNINTERRUPTED. PROVIDE OVERSIZED HANGERS AND INSULATION SADDLES FOR ALL INSULATED PIPING.

2.03 VALVES

A. APPROVED VALVES SHALL BE AS MANUFACTURED BY APOLLO-CONBRACO.

B. ALL VALVES SHALL BE LEAD-FREE IN ACCORDANCE TO NSF STANDARD 372 AND NSF STANDARD 61.

C. BALL VALVES 2 INCH AND SMALLER: TWO-PIECE LEAD-FREE BRONZE BODY ASTM B 584, FULL PORT, 600 PSIG CWP, BLOW-OUT PROOF STEM, CHROME PLATED BALL, LEVER HANDLE AND THREADED CONNECTIONS.

2.04 SUPPORTS AND HANGERS

A. PROVIDE ALL NECESSARY HANGERS, SUPPORTS, BUILDING ATTACHMENTS, SUPPLEMENTAL STEEL, ANCHORS, INSERTS, ETC., AS REQUIRED TO INSTALL THE PIPING WORK. HANGERS AND SUPPORTS SHALL BE CAPABLE OF SUPPORTING PIPE LOADS AND FULL CONTENTS WITH ALL RELATED DEVICES, PUMPS, ETC.

B. HANGERS, SUPPORTS AND RELATED ITEMS SHALL HAVE FACTORY COATED FINISHES THAT WILL NOT PROMOTE GALVANIC OR CORROSION ACTION. RODS, NUTS AND MISCELLANEOUS FASTENERS SHALL BE GALVANIZED.

2.05 FIRE STOPPING

A. PROVIDE UL LISTED FIRE PENETRATION SYSTEMS AND ASSEMBLIES FOR ALL RATED FLOOR, WALL AND PARTITION PENETRATIONS.

B. COORDINATE ALL RATED ASSEMBLIES WITH CURRENT ARCHITECTURAL PLANS.

C. FIRE STOP SYSTEMS SHALL BE AS MANUFACTURED BY 3M, HILTI OR METACAULK.

PART 3 - BASIC EXECUTION

3.01 MEDICAL GAS

A. MEDICAL GAS SYSTEM DEMOLITION AND INSTALLATION SHALL COMPLY WITH 2012 EDITION OF NFPA 99.

B. SYSTEM TEST & CERTIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH NFPA STANDARDS. TEST & CERTIFICATION SHALL CONSIST OF ALL PIPELINES WITHIN AFFECTED AREA OF SCOPE AND PIPELINE IMMEDIATELY UPSTREAM OF AREA AS PRESCRIBED IN NFPA 99. FINAL CROSS CONNECTION, CERTIFICATION AND PURITY TESTS SHALL BE CONDUCTED BY A THIRD PARTY AS DIRECTED BY THE HOSPITAL.

C. PROVIDE ALL REQUIRED CUTTING AND PATCHING FOR THE NEW MEDICAL GAS SYSTEMS.

D. PROVIDE A NOTORIZED DOCUMENT INDICATING ALL TEST RESULTS FOR SUBMISSION TO ALL NECESSARY CODE AUTHORITIES AND FOR FACILITY RECORDS.

3.01 DOMESTIC WATER

A. PROVIDE NEW DOMESTIC WATER PIPING SYSTEMS COMPLETE TO SUPPORT PROPOSED WORK.

B. PROVIDE ALL VALVES IN THE DOMESTIC WATER SYSTEMS WHERE REQUIRED BY CODE AND AS INDICATED ON THE PLANS FOR PROPER CONTROL AND SERVICING OF THE PIPING SYSTEMS.

C. PROVIDE EACH ITEM OF EQUIPMENT, APPLIANCE AND FIXTURE WITH A SHUT-OFF VALVE. FIXTURES SHALL BE PROVIDED WITH FIXTURE STOPS OR INTEGRAL CHECK-STOPS.

D. PROVIDE MAKE UP WATER WITH CODE COMPLIANT BACKFLOW DEVICES FOR HVAC EQUIPMENT REQUIRING WATER CONNECTIONS.

E. PROVIDE DI-ELECTRIC UNIONS OR FITTINGS WHERE CONNECTIONS OCCUR BETWEEN DISSIMILAR MATERIALS.

F. INSULATE ALL DOMESTIC WATER SYSTEMS INCLUDING CONCEALED PIPING WITHIN WALLS AND CHASES. INSULATION SHALL REMAIN UNINTERRUPTED AT HANGERS AND SUPPORTS.

G. PROVIDE TEST AND CERTIFICATION OF ALL TESTABLE BACKFLOW DEVICES. POST TEST RESULTS AT EACH DEVICE.

H. PROVIDE PIPE IDENTIFICATION AND VALVE TAGS FOR ALL WATER PIPING SYSTEMS.

PART 4 - EQUIPMENT, FIXTURES AND DEVICES

4.01 GENERAL

A. INSTALL ALL ITEMS IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED FACTORY AUTHORIZED START-UP SERVICES WHERE REQUIRED.

B. ITEMS SHALL BE SET, LEVELED, FASTENED AND CONNECTED COMPLETE WITH ALL REQUIRED TRIM, SUPPORTS, ETC. ALL FIXTURES SHALL BE PERFECT IN FINISH AND COLOR, SHALL BE SQUARE WITH RELATION TO FINISHED INTERIOR AND LOCATED AS INDICATED ON THE DRAWINGS.

C. ALL ITEMS SHALL BE PROVIDED WITH PROPER SUPPORT. PROVIDE AND ARRANGE FOR ALL NECESSARY WALL FRAMING AND BLOCKING.

D. AFTER WORK HAS BEEN COMPLETED, ALL ITEMS AND TRIM SHALL BE THOROUGHLY CLEANED.

CODE REFERENCES

CITY OF AURORA, CO LOCAL AMENDMENTS
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2012 NFPA 99 STANDARDS
2021 FGI GUIDELINES FOR HOSPITALS

MATERIAL LIST

SERVICE DESCRIPTION	MATERIAL
DOMESTIC COLD, HOT AND RETURN HOT WATER (2-INCHES AND SMALLER) (ABOVE GROUND)	TYPE "L" HARD TEMPERED SEAMLESS COPPER TUBING CONFORMING TO ASTM B 88, WITH LEAD FREE SOLDERED JOINTS.
SANITARY, WASTE AND VENT (ALL SIZES) (ABOVE GROUND)	SERVICE WEIGHT NO-HUB CAST IRON PIPE CONFORMING TO ASTM A74 AND CISPI 301 WITH EXTRA HEAVY DUTY NO-HUB COUPLINGS.
SANITARY, WASTE AND VENT (ALL SIZES) (UNDERGROUND)	SCHEDULE 40 SOLID CORE POLYVINYL CHLORIDE (PVC) PLASTIC PIPE AND FITTINGS CONFORMING TO ASTM D 2665, WITH SOLVENT CEMENTED JOINTS.

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

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No.	Description	Date

COLORADO LICENSED MECHANICAL P. THOMPSON PROFESSIONAL ENGINEER 55150
5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

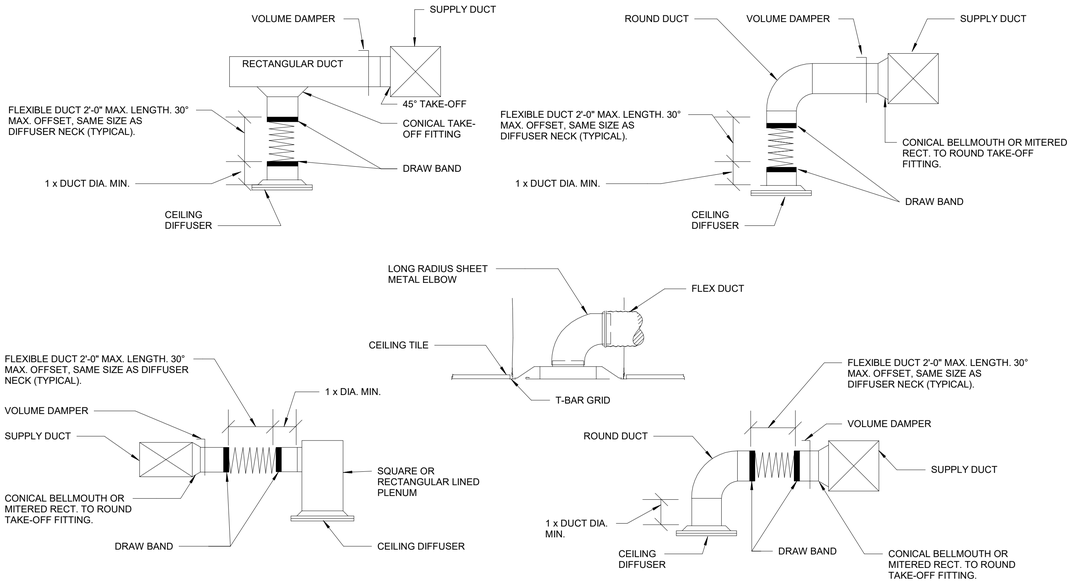
Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	EV
Checked by	JH

Sheet Title
PLUMBING NOTES AND SPECIFICATIONS

Sheet Number
M.002

5/26/2022 9:54:26 PM

RSN: 1634377
Permit#: 22-2165629-LT



NOTES:

1. SPIN COLLARS SHALL NOT BE PERMITED.
2. SPECIAL CONDITIONS THAT CAN NOT MEET ONE OF THESE STANDARDS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION ON A CASE BY CASE BASIS.
3. DETAILS ILLUSTRATE INSTALLATION WITH ROUND NECK DIFFUSERS AND DUCTS. SQUARE OR RECTANGULAR NECK DIFFUSERS AND DUCTS SHALL BE SIMILAR.

2 TYPICAL DIFFUSER INSTALLATION DETAIL

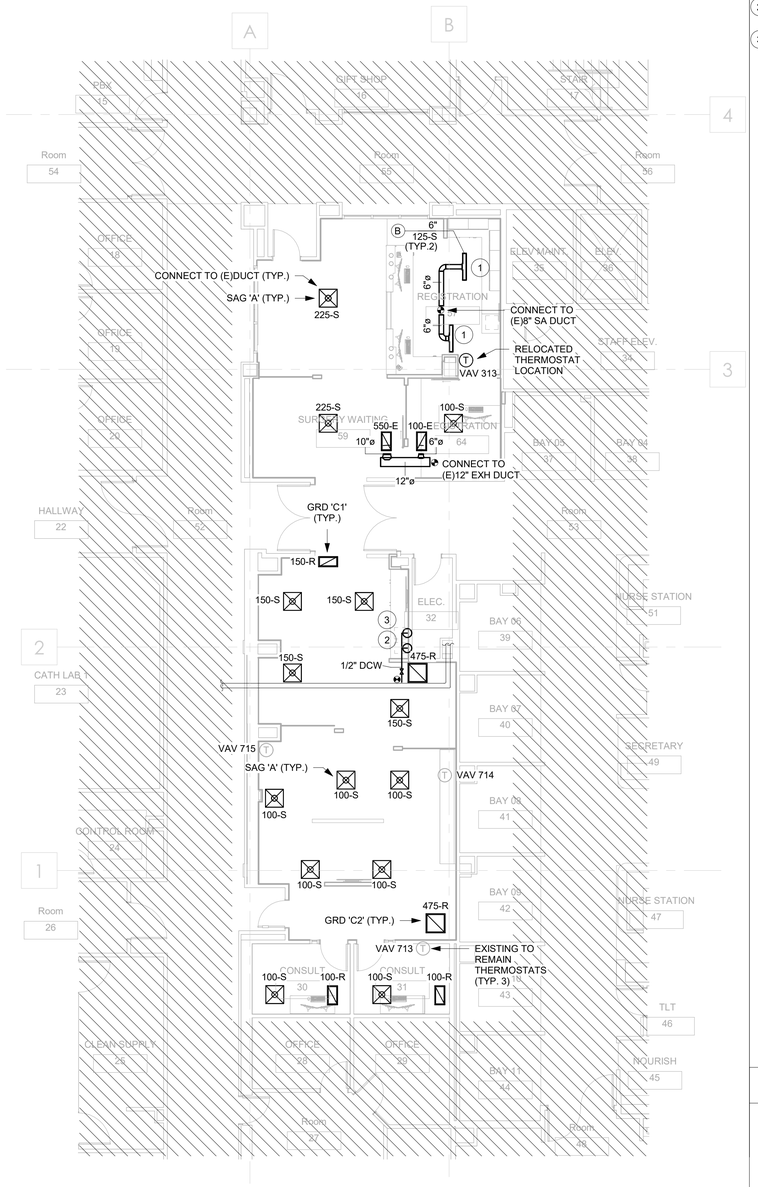
NOT TO SCALE

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	SERVICE	TYPE	FACE SIZE	INLET SIZE	NO. OF SLOTS	DAMPER	MATERIAL / FINISH	MANUFACTURER	MODEL	REMARKS
A	SUPPLY	SQUARE PLAQUE DIFFUSER	24"x24"	MATCH EXISTING	-	-	STEEL/ WHITE	TITUS	OMNI	1
B	SUPPLY	LINEAR SUPPLY DIFFUSER	36"X6"	6"	3	YES	ALUMINUM/ WHITE	TITUS	ML-37	1,2
C1	RET/ EXH	PERFORATED GRILLE	24"x12"	MATCH EXISTING	-	-	STEEL/ WHITE	TITUS	PXP	1,2
C2	RET/ EXH	PERFORATED GRILLE	24"x24"	MATCH EXISTING	-	-	STEEL/ WHITE	TITUS	PXP	1,2

REMARKS:

1. COORDINATE FINISH WITH ARCHITECT PRIOR TO INSTALL.
2. PROVIDE PLENUM BOX FOR DUCT CONNECTION.



1 LEVEL 01 MECHANICAL PLAN

1/8" = 1'-0"

GENERAL NOTES:

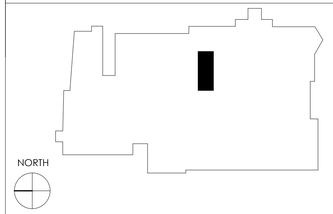
1. SUPPLY, RETURN AND EXHAUST SYSTEMS ARE ALL FULLY DUCTED WITHIN THE SCOPE. THE CONTRACTOR SHALL BALANCE OF ALL NEW SUPPLY, RETURN AND EXHAUST GRDs TO AIRFLOWS SHOWN ON PLAN. REPROGRAM EXISTING SUPPLY VAV TERMINAL UNITS TO SUM OF NEW AIRFLOWS SERVED.
2. CONNECT NEW GRDs TO EXISTING BRANCH DUCTWORK. COORDINATE EXISTING DUCT CONNECTION SIZES IN FIELD.
3. DCV SHALL BE WILKINS MODEL NO. 700XL DUAL CHECK BACKFLOW PREVENTER, LEAD-FREE BRONZE BODY CONSTRUCTION, TWO COMPACT REPLACEABLE CHECK MODULES, WITH BUNA-NEALS AND STAINLESS STEEL SPRINGS, 2-PIECE, BRONZE, STANDARD PORT BALL VALVE WITH TEE HANDLE IN WALL BOX.

KEYED NOTES:

1. CONNECT NEW SLOT DIFFUSER WITH PLENUM TO EXISTING SUPPLY BRANCH DUCTWORK FROM VAV 313. BALANCER TO DIRECT THE FLOW AT 45 DEGREE ANGLE. DIFFUSER SHOULD NOT DIRECT FLOW STRAIGHT DOWN.
2. PROVIDE 1/2" DCW CONNECTION AND 1/2" DUAL CHECK VALVE (DCV) FOR COFFEE MAKER.
3. PROVIDE 1/2" DCW CONNECTION AND 1/2" DUAL CHECK VALVE (DCV) FOR WATER DISPENSER.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Feb 06, 2023
2021 INTERNATIONAL CODES & 2020 NEC

KEY PLAN



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No.	Description	Date

COLORADO LICENSED MICHAEL P. THOMPSON 55150 PROFESSIONAL ENGINEER
5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	EV
Checked by	JH

Sheet Title
MECHANICAL PLAN

Sheet Number
M.201

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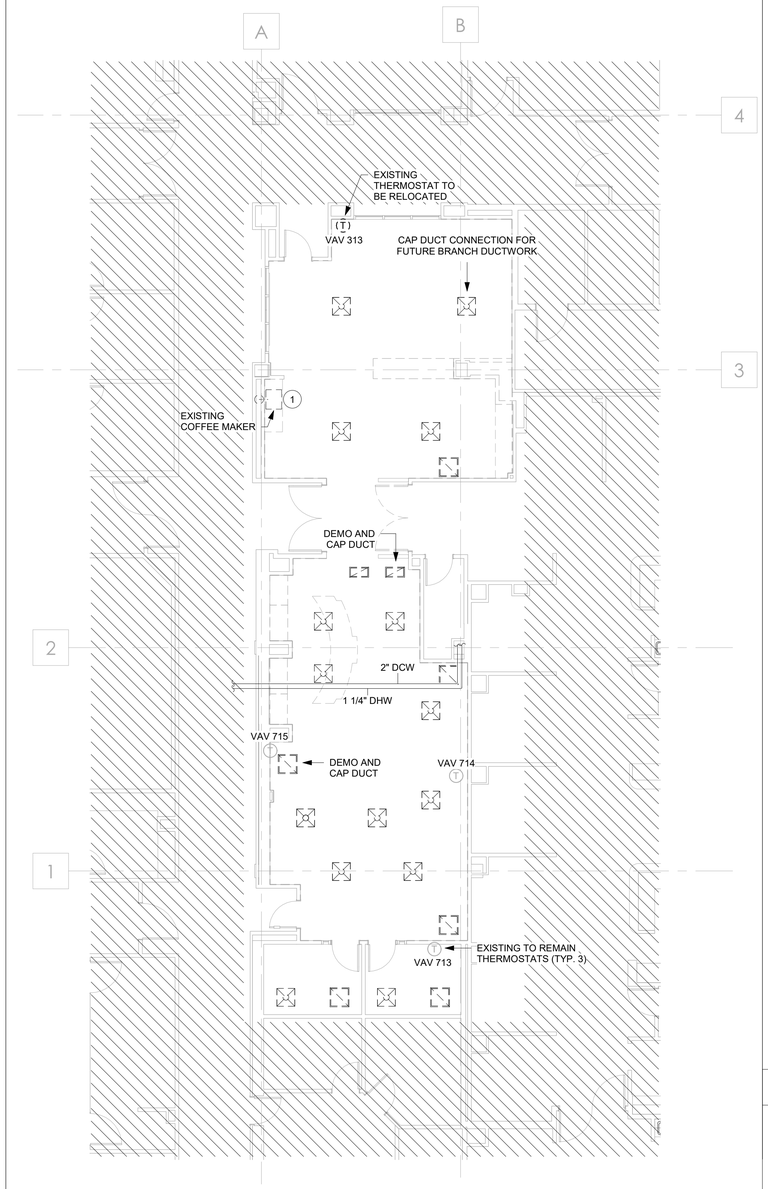
5/26/2022 9:54:27 PM

RSN: 1634377
Permit#: 22-2165629-LT



1 LEVEL 01 MECHANICAL DEMOLITION PLAN

1/8" = 1'-0"

GENERAL NOTES:

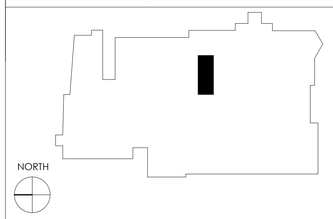
1. DEMOLISH EXISITNG SUPPLY, RETURN AND EXHAUST GRDs WITHIN EXTENT OF RENOVATION. RETAIN FLEXIBLE DUCT CONNECTIONS WHERE PRACTICABLE FOR RE-WORK AND CONNECTION TO NEW GRDs UNLESS NOTED OTHERWISE.

KEYED NOTES:

(1) DEMOLISH EXISTING DOMESTIC COLD WATER PIPING SERVING COFFEE MAKER BACK TO DCW MAIN.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Feb 06, 2023
2021 INTERNATIONAL CODES & 2020 NEC

KEY PLAN



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53150
PROFESSIONAL ENGINEER
5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

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MECHANICAL DEMOLITION PLAN

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MD.201

RSN: 1634377
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GENERAL ELECTRICAL SYMBOLS

	CONDUIT RUN CONCEALED IN CEILING OR WALL
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR
	CONDUIT RUN EXPOSED ON CEILING OR WALL

ARROWHEAD DENOTES HOMERUN TO PANELBOARD. SLASH LINES INDICATE QUANTITY OF WIRE; NEUTRAL WIRE SHOWN AS A LONG LINE, PHASE WIRES AND SWITCH LEGS SHOWN AS SHORT LINES, AND GROUND WIRE SHOWN AS A LONG LINE WITH A DOT.

X	CONDUIT, WHERE "X" IS THE TYPE OR FUNCTION OF CONDUIT.

"C"	INDICATES CLOCK	"S"	INDICATES SOUND
"CO"	INDICATES CONDUIT ONLY	"T"	INDICATES TELEPHONE
"CTV"	INDICATES CCTV	"TVA"	INDICATES TELEVISION ANTENNA
"D"	INDICATES DATA	"TVC"	INDICATES CABLE TELEVISION
"FA"	INDICATES FIRE ALARM		
"I"	INDICATES INTERCOM		
"LV"	INDICATES LOW VOLTAGE		
"NC"	INDICATES NURSE CALL		

	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	FLEXIBLE CONDUIT
XX	CONDUIT TERMINATION:

"CS"	INDICATES CAP AND STAKE
"GB"	INDICATES GROUNDING BUSHING
"IB"	INDICATES INSULATING BUSHING
"TB"	INDICATES TERMINAL BUSHING

	CONDUIT SEAL
	MULTI-OUTLET ASSEMBLY
W W	WIREWAY
CT CT	CABLE TRAY
B B	BUSWAY (BUSDUCT)

UNDERFLOOR DUCT SYSTEM:

——	INDICATES POWER DUCT
– – –	INDICATES TELEPHONE DUCT
- - - -	INDICATES SYSTEM DUCT

	VARIOUS SYMBOLS IDENTIFY LOCATION OF DIFFERENT TYPES OF OUTLETS OR CONNECTIONS TO UNDERFLOOR DUCT SYSTEM.
PB	PULL BOX
	JUNCTION BOX- EXPOSED OR IN CEILING
	JUNCTION BOX - WALL MOUNTED
HD	JUNCTION BOX FOR HAND DRYER CONNECTION - WALL MOUNTED
	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL CONNECTION TO EQUIPMENT.
PDQ 13	EQUIPMENT IDENTIFICATION TAG

FIRE ALARM SYMBOLS

S	FIRE ALARM MANUAL PULL STATION
SD	SMOKE DETECTOR
D	HEAT DETECTOR
	VOICE SPEAKER
SV	VOICE SPEAKER WITH VISUAL ALARM
V	VISUAL STROBE
AV	AUDIBLE GENERAL ALARM WITH VISUAL STROBE
RA	REMOTE INDICATOR LIGHT FOR SMOKE DETECTOR
A	AUDIBLE GENERAL ALARM
DGP	FIRE ALARM TRANSPONDER PANEL
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
MD	MAGNETIC DOOR HOLDER

POWER DEVICE SYMBOLS

WALL	FLOOR BOX	POKE-THROUGH	
			DUPLEX RECEPTACLE
			DOUBLE DUPLEX RECEPTACLE
			DUPLEX RECEPTACLE - SPLIT WIRED
			SINGLE RECEPTACLE
			COMBINATION DUPLEX RECEPTACLE TELEPHONE/ DATA SYSTEMS OUTLET
			COMBINATION DOUBLE DUPLEX RECEPTACLE TELEPHONE/ DATA SYSTEMS OUTLET
			SPECIAL RECEPTACLE - NEMA TYPE AS INDICATED
			JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL EQUIPMENT OR FURNITURE SYSTEM POWER CONNECTION

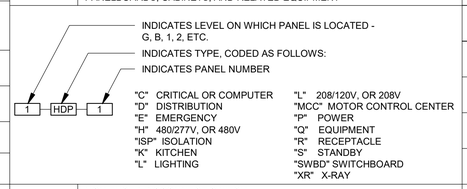
WP / XX — ADJACENT LETTERS IN THE SYMBOLS ABOVE INDICATE THE FOLLOWING:

"CR"	INDICATES CHILD RESISTANT (SAFETY TYPE)
"E"	INDICATES RECEPTACLE FED BY EMERGENCY CIRCUIT
"EP"	INDICATES RECEPTACLE IS EXPLOSION PROOF
"GFI"	INDICATES RECEPTACLE HAS GROUND FAULT CIRCUIT INTERRUPTER
"IG"	INDICATES RECEPTACLE HAS ISOLATED GROUND
"TVS"	INDICATES RECEPTACLE HAS TRANSIENT VOLTAGE SURGE SUPPRESSION
"WP"	INDICATES RECEPTACLE HAS WATERPROOF COVER
"XX"	INDICATES RECEPTACLE CIRCUIT NUMBER

	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP
	CLOCK OUTLET RECEPTACLE
	CLOCK OUTLET AND CLOCK FOR INTEGRATED CLOCK SYSTEM.
USB	DUPLEX RECEPTACLE WITH (2) USB PORTS
USB	OUTLET WITH (4) USB PORTS
TC	TIME CLOCK
PC	PHOTOCELL
OS XX	CEILING OR WALL MOUNTED OCCUPANCY SENSOR
DM XX	WALL MOUNTED DIMMABLE SWITCH

POWER EQUIPMENT SYMBOLS

	SURFACE MOUNTED DISTRIBUTION PANELBOARD
	SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD
	RECESSED MOUNTED BRANCH CIRCUIT PANELBOARD
1-HDP-1	SWITCHBOARDS, DISTRIBUTION PANELBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, CABINETS, AND RELATED EQUIPMENT



"C"	CRITICAL OR COMPUTER	"L"	208/120V, OR 208V
"D"	DISTRIBUTION	"MCC"	MOTOR CONTROL CENTER
"E"	EMERGENCY	"P"	POWER
"H"	480/277V, OR 480V	"Q"	EQUIPMENT
"ISP"	ISOLATION	"R"	RECEPTACLE
"K"	KITCHEN	"S"	STANDBY
"L"	LIGHTING	"SWBD"	SWITCHBOARD
		"XR"	X-RAY

AS	NON-FUSED DISCONNECT SWITCH, "AS" INDICATES AMPERE RATING OF SWITCH
AS/AF	FUSED DISCONNECT SWITCH, "AS" INDICATES AMPERE RATING OF SWITCH AND "AF" INDICATES AMPERE RATING OF FUSE
	MAGNETIC MOTOR STARTER - NEMA SIZE AS INDICATED
AS	COMBINATION MOTOR STARTER AND NON-FUSED DISCONNECT, "AS" INDICATES AMPERE RATING OF SWITCH
M	UTILITY METER
T	TRANSFORMER
BGB	BUILDING GROUND BOX
ST	SHUNT TRIP
SPD	SURGE PROTECTION DEVICE
CM	CUSTOMER METER
EPO	EMERGENCY POWER OFF MUSHROOM PUSHBUTTON CONTROL STATION

SECURITY SYMBOLS

	PUSH-BUTTON STATION "DB" DOORBELL "DR" DOOR RELEASE
	BUZZER
	BELL
CH	CHIME
T TH	LOW VOLTAGE TRANSFORMER WITHIN PLENUM BOX
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
CR	CARD READER
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
MS	MOTION SENSOR

COMMUNICATIONS SYMBOLS

TTC	TELEPHONE TERMINAL CABINET

WALL	FLOOR BOX	POKE-THROUGH	
			TELEPHONE OUTLET
			DUPLEX TELEPHONE OUTLET
			DATA SYSTEMS OUTLET
			DUPLEX DATA SYSTEMS OUTLET
			COMBINATION TELEPHONE/ DATA SYSTEMS OUTLET
T	T/D	D	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL EQUIPMENT OR FURNITURE SYSTEM CONNECTION. SUBSCRIPTS INDICATE THE FOLLOWING: "T" - TELEPHONE "D" - DATA SYSTEMS "T/D" - COMBINATION TELEPHONE/ DATA SYSTEMS

SUBSCRIPT INDICATES THE FOLLOWING FOR BELOW WALL MOUNTED OUTLETS, (U.N.O.):

"H"	HANDICAP MOUNTED AT 48" A.F.F.
"P"	PAY PHONE MOUNTED AT 54" A.F.F.
"W"	WALL MOUNTED AT 54" A.F.F.

I	INTERCOM, WALL OR CEILING MOUNTED
S	SPEAKER, WALL OR CEILING MOUNTED
SP	PAGING SYSTEM SPEAKER, WALL OR CEILING MOUNTED
J WAP	WIRELESS ACCESS POINT, WALL OR CEILING MOUNTED

HEALTHCARE CALL SYMBOLS

1	SINGLE CALL STATION
3	TOILET BATH OR SHOWER CALL STATION
4	SINGLE CORRIDOR DOME ZONE LIGHT
7	MULTIPLE CORRIDOR DOME ZONE LIGHT
8	DUTY STATION
9	STAFF DUTY STATION
23	CODE BLUE STATION

LIGHTING SYMBOLS

F1 1a	2' X 4' LIGHTING FIXTURE.
F1 1a	2' X 2' LIGHTING FIXTURE.
F1 1a	1' X 4' LIGHTING FIXTURE.
F1 1a	LINEAR LIGHTING FIXTURE- LENGTH AS INDICATED.
T F1 1a	WALL MOUNTED LINEAR LIGHTING FIXTURE- LENGTH AS INDICATED.
F1 1a	INCANDESCENT, HID, OR LED LIGHTING FIXTURE.
F1 1a	WALL MOUNTED INCANDESCENT, HID, OR LED LIGHTING FIXTURE
F1 E1	2' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.
F1 E1	LINEAR LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.
F1 E1	INCANDESCENT, HID, OR LED LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.

LIGHTING FIXTURES: "F1" INDICATES LIGHTING FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING. "1" INDICATES CIRCUIT NUMBER "a" INDICATES SWITCH CONTROL. SHADING OF LIGHTING FIXTURE OR "E" INDICATES LIGHTING FIXTURE CONNECTED TO EMERGENCY CIRCUIT.

F1 E2	BATTERY PACK, EMERGENCY LIGHTING UNIT
	REMOTE HEAD CONNECTED TO BATTERY PACK.
	TRACK LIGHTING

NEW #3 E3 / #21 E5 — NEW #3N E3 / #21N E5 — EXISTING #3E E3 / #21E E5

"#X" INDICATES INSCRIPTION, ARROWS, AND SINGLE OR DOUBLE FACED, AS SHOWN BELOW. SHADED QUADRANTS INDICATES DIRECTION OF LIGHTED FACES.

"#1"	FIRE ESCAPE	"#14"	TRIANGLE
"#2A"	STAIRS	"#15"	ELEVATOR
"#3"	EXIT	"#16"	FIRE ESCAPE
"#4"	FIRE ESCAPE →	"#17A"	STAIRS
"#5A"	STAIRS →	"#18"	EXIT
"#6"	EXIT ←	"#19"	FIRE ESCAPE =
"#7"	FIRE ESCAPE ←	"#20A"	STAIRS =
"#8A"	STAIRS ←	"#21"	EXIT =
"#9"	EXIT ←	"#22"	FIRE ESCAPE = =
"#10"	FIRE ESCAPE ← →	"#23A"	STAIRS = =
"#11A"	STAIRS ← →	"#24"	EXIT = =
"#12"	EXIT →		
"#13"	EXIT - RECESSED		

3W $ XXa — LIGHT SWITCH, SINGLE POLE UNLESS NOTED OTHERWISE:

"a"	INDICATES LIGHTS CONTROLLED
"D"	INDICATES DIMMER SWITCH
"K"	INDICATES KEY OPERATED
"LV"	INDICATES LOW VOLTAGE
"MC"	INDICATES MOMENTARY CONTACT
"P"	INDICATES PILOT LIGHT
"TH"	INDICATES THERMAL OVERLOAD PROTECTION
"XX"	INDICATES CIRCUIT NUMBER
"WP"	INDICATES WEATHERPROOF
"2P"	INDICATES 2 POLE
"3P"	INDICATES THREE POLE
"3W"	INDICATES THREE-WAY
"4W"	INDICATES FOUR-WAY

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

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHTING AND CONTROLS, RECEPTACLES, COMMUNICATIONS DEVICES, FIRE ALARM DEVICES, AND LIFE SAFETY DEVICES.

2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC, PLUMBING, AND FIRE PROTECTION EQUIPMENT.

3. REFER TO PANEL DIVISION LINES FOR BRANCH CIRCUIT HOMERUN PANELBOARD DEMARCATION LINES, UNLESS NOTED OTHERWISE.

4. BRANCH CIRCUIT WIRING FOR 120 VOLT 20 AMP CIRCUITS WIRED TO 208Y/120V SYSTEMS SHALL BE AS FOLLOWS: A. GENERAL RECEPTACLES AND LIGHTING LOADS: UP TO 100 FEET IN LENGTH: 3#12, 1#12N, 1#12G -3/4"C. OVER 100 FEET IN LENGTH: 3#10, 1#10N, 1#10G -3/4"C.

5. BRANCH CIRCUIT WIRING FOR 277 VOLT 20 AMP CIRCUITS WIRED TO 480Y/277V SYSTEMS SHALL BE AS FOLLOWS: A. LIGHTING LOADS: UP TO 150 FEET IN LENGTH: 3#12, 1#10N, 1#12G -3/4"C. OVER 150 FEET IN LENGTH: 3#10, 1#8N, 1#10G -3/4"C.

6. DISTANCES FOR BRANCH CIRCUIT WIRING, AS INDICATED IN NOTES 4 & 5 ABOVE, SHALL BE MEASURED FROM THE FINAL OCPD TO THE CENTER OF THE BRANCH CIRCUIT LOAD. SIZES ARE A MINIMUM AND CONTRACTOR MAY BE REQUIRED TO UP-SIZE TO ACCOUNT FOR VOLTAGE DROP.

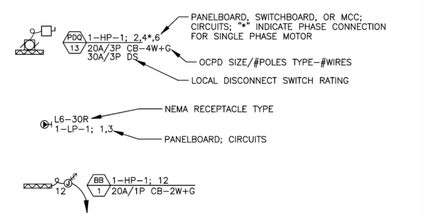
7. NOT USED.

8. BRANCH CIRCUIT CONDUCTORS SIZED AS INDICATED IN NOTES 4 & 5 ABOVE AND/OR ON PLAN SHALL BE ROUTED TO EACH ELECTRIC DEVICE CONNECTED TO THE INDICATED BRANCH CIRCUIT. PROVIDE WIRENUTS AND PIGTAILS SIZED TO MATCH THE CORRESPONDING OCPD LISTED IN THE BRANCH CIRCUIT WIRING SCHEDULE FOR ELECTRICAL DEVICE TERMINATIONS WHERE THE ELECTRICAL DEVICE LUGS CANNOT ACCOMMODATE THE INCREASED CONDUCTOR SIZE INDICATED ABOVE, U.N.O.

9. REFER TO THE BRANCH CIRCUIT WIRING SCHEDULE FOR MINIMUM INSTALLATION CRITERIA. BRANCH CIRCUIT WIRING SPECIFIED IN NOTES AND/OR ON PLAN OR OTHER SCHEDULES SHALL TAKE PRECEDENCE OVER THE INFORMATION PROVIDED IN THE SCHEDULE.

10. PROVIDE AN EQUIPMENT GROUNDING SCREW WITHIN THE RECEPTACLE OUTLET BOX FOR RECEPTACLES WITHOUT A SIDE-MOUNTED GROUNDING SCREW FOR TERMINATION OF THE BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

11. ELECTRICAL DEVICE BRANCH CIRCUIT WIRING LEGEND:



12. MOUNTING HEIGHTS OF ELECTRICAL ITEMS SHALL BE AS LISTED BELOW ABOVE FINISHED FLOOR TO CENTERLINE, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS OR AS REQUIRED BY CODE:

A. GENERAL RECEPTACLES	18"
B. PATIENT RECEPTACLES	18"
C. GENERAL TELE AND DATA OUTLETS	18"
D. PATIENT TELE AND DATA OUTLETS	18"
E. GENERAL TOGGLE SWITCHES	48"
F. FIRE ALARM PULL STATIONS	48"
G. SECURITY CALL STATIONS	48"
H. CLOCK AND PAGING SPEAKER OUTLETS	84"
I. FIRE ALARM AUDIO VISUAL DEVICES	80"
J. GENERAL WALL MOUNTED LIGHTS	90"
K. CORRIDOR WALL SCONCES (>4" DEEP)	66"
L. EXIT SIGNS	90"
M. INDIVIDUAL DISCONNECTS AND STARTERS	60"
N. GROUPED DISCONNECTS AND STARTERS	> 12" < 72"
O. PANELBOARD OVERCURRENT DEVICES	> 12" < 72"

13. CABLING AND OUTLETS SHALL BE FURNISHED AND INSTALLED BY THE OWNER'S COMMUNICATIONS CONTRACTOR, NNSI, UNDER SEPARATE CONTRACT, COORDINATE RACEWAY REQUIREMENTS WITH COMMUNICATIONS CONTRACTOR. TYPICAL COMMUNICATIONS OUTLET RACEWAY PROVISION SHALL INCLUDE A 2-GANG BACKBOX WITH SINGLE-GANG MUDRING AND 1"C TO ACCESSIBLE CEILING CAVITY WITH INSULATING BUSHING.

14. MODIFICATIONS TO THE BUILDING FIRE ALARM SYSTEM SHALL UTILIZE STANDARD PRODUCTS OF AND BE PERFORMED BY THE EXISTING HOSPITAL FIRE ALARM SYSTEM MANUFACTURER - JCI/SIMPLEX. THE DRAWINGS INDICATE DESIGN INTENT FOR NEW OR RELOCATED DEVICES. CONTRACTOR SHALL PROVIDE DEVICES, WIRING, RACEWAY, ACCESSORIES, AND PROGRAMMING FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM IN ACCORDANCE WITH NFPA 72, THE INTERNATIONAL FIRE CODE, AND ANY LOCAL AMENDMENTS. COORDINATE REMOVAL OF DETECTION DEVICES AND/OR FIRE WATCH WITH OWNER DURING CONSTRUCTION.

DRAWING LIST

SHEET #	TITLE	DRAWING SCALE
E.000	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES	N.T.S.
E.001	ELECTRICAL NOTES	N.T.S.
E.002	ELECTRICAL DETAILS	N.T.S.
ED.201	ELECTRICAL DEMOLITION PLAN	1/8" = 1'-0"
E.201	ELECTRICAL PLAN	1/8" = 1'-0"

CODES AND STANDARDS

DESIGNED UNDER THE FOLLOWING CODES AND STANDARDS:
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL FIRE CODE
2017 ANSI A117.1, ACCESSIBILITY REQUIREMENTS
ANSI/ASME A17.1, SAFETY CODE FOR ELEVATORS
NFPA 72 NATIONAL FIRE ALARM CODE

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Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	JC
Checked by	JG

Sheet Title
ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

Sheet Number
E.000

5/27/2022 3:14:49 PM

RSN: 1634377
Permit#: 22-2165629-LT

ABBREVIATIONS

NOTE: ABBREVIATIONS ARE ALPHABETICALLY LISTED BY DESCRIPTION.

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT-AMPERE
ACL	ACROSS THE LINE	KO	KNOCKOUT
ALM	ALARM	LTG	LIGHTING
AC	ALTERNATING CURRENT	LS	LOUD SPEAKER
A	AMPERE	LV	LOW VOLTAGE
AMP	AMPERE	MH	MANHOLE
AIC	AMPERES INTERRUPTING CAPACITY	MFR	MANUFACTURER
AL	ALUMINUM	MV	MULTI VAPOR
ANN	ANNUNCIATOR	MERC.	MERCURY VAPOR
ATS	AUTOMATIC TRANSFER SWITCH	MTR	MOTOR
BAL	BALLAST	MCC	MOTOR CONTROL CENTER
BR	BRANCH	MTD	MOUNTED
BRKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
BGB	BUILDING GROUND BOX	NEUT	NEUTRAL
CAB	CABINET	NC	NORMALLY CLOSED
CATV	CABLE TELEVISION	NO	NORMALLY OPENED
C.B.	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCT	CIRCUIT	NTS	NOT TO SCALE
CCTV	CLOSED CIRCUIT TELEVISION	PNL	PANEL
CLO	CLOSET	PH	PHASE
COAX	COAXIAL	PT	POTENTIAL TRANSFORMER
C.U.	COEFFICIENT OF UTILIZATION	PWR	POWER
COMED	COMMONWEALTH EDISON COMPANY	PRI	PRIMARY
		PROT.	PROTECTION OR PROTECTIVE
C	CONDUIT	PA	PUBLIC ADDRESS
CONN	CONNECTION	PB	PULL BOX
CONV	CONVENIENCE	RT	RAINTIGHT
CU	COPPER	RECP	RECEPTACLE
CUH	CABINET UNIT HEATER	RC	REMOTE CONTROL
CT	CURRENT TRANSFORMER	R	RESISTANCE
HZ	HERTZ (CYCLES/SECOND)	REL	RELOCATE
DC	DIRECT CURRENT	SEC	SECONDARY
DS	DISCONNECT SWITCH	SC	SHORT CIRCUIT
DPDT	DOUBLE POLE DOUBLE THROW	SP	SINGLE POLE
DPST	DOUBLE POLE SINGLE THROW	SPST	SINGLE POLE SINGLE THROW
DO	DRAWOUT	SPDT	SINGLE POLE DOUBLE THROW
DT	DUSTTIGHT	SPKR	SPEAKER
ELEC	ELECTRIC	SPEC	SPECIFICATION
EWC	ELECTRIC WATER COOLER	SS	STAINLESS STEEL
EWH	ELECTRIC WATER HEATER	STA	STATION
EM	EMERGENCY	S	SWITCH
EMT	ELECTRIC METALLIC TUBING	SWBD	SWITCHBOARD
	(THIN WALL CONDUIT)	SWGR	SWITCHGEAR
EQ	EQUIPMENT	SYM	SYMMETRICAL
EUH	ELECTRIC UNIT HEATER	SYS	SYSTEM
EX	EXISTING	TC	TERMINAL CABINET
EP	EXPLOSION PROOF	TEL	TELEPHONE
FPB	FAN POWERED BOX	TEL.CL.	TELEPHONE CLOSET
FA	FIRE ALARM	TTC	TELEPHONE TERMINAL CABINET
FDC	FIRE DEPARTMENT CONNECTION	TV	TELEVISION
FB	FLOORBOX	TERM.	TERMINAL
FLUOR	FLUORESCENT	TX	TRANSFORMER
FMC	FLEXIBLE METALLIC CONDUIT	T	TRIP
F	FUSE	TL	TWIST LOCK
F.S.	FUSED SWITCH	UL	UNDERWRITER'S LABORATORIES
GEN	GENERATOR	UNG	UNGROUNDED
GRD	GROUND	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GHW	GALVANIZED HEAVYWALL STEEL	VP	VAPORPROOF
	CONDUIT	VT	VAPORTIGHT
HV	HIGH VOLTAGE	V	VOLT
HP	HORSE POWER	VA	VOLT-AMPERE
INC	INCANDESCENT	WT	WATERTIGHT
IC	INTERRUPTING CAPACITY	W	WATT
IMC	INTERMEDIATE GRADE CONDUIT	WP	WEATHERPROOF
JB	JUNCTION BOX	XR	EXISTING TO BE REMOVED
KW	KILOWATT	XRL	EXISTING TO BE RELOCATED
KWH	KILOWATT-HOUR	XRW	EXISTING TO BE REWIRED

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

DIVISION 260000 - ELECTRICAL

1. GENERAL

A. REQUIREMENTS:

1) PRODUCTS AND EXECUTION SHALL BE PROVIDED FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM THROUGHOUT THE EXTENT OF THE PROJECT, IN CONFORMANCE WITH APPLICABLE CODES, LAWS, ORDINANCES AND AGENCY STANDARDS OF GOVERNING BODIES HAVING JURISDICTION, AND IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND BUILDING STANDARDS.

2) PRODUCTS, INCLUDING EQUIPMENT, DEVICES, FIXTURES, AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE, UL LISTED, AND BEAR APPROPRIATE LABEL.

3) EXECUTION, INCLUDING PREPARATION, INSTALLATION, STARTING, AND TESTING SHALL BE PERFORMED BY SKILLED TRADES PERSONNEL, IN COMPLIANCE WITH THE ASSOCIATED MANUFACTURERS RECOMMENDATIONS, AND COORDINATED WITH THE OTHER CONSTRUCTION TRADES.

B. APPLICABLE LAWS AND AGENCY STANDARDS:

1)	AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
2)	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM
3)	AMERICANS WITH DISABILITIES ACT	ADA
4)	ASSOCIATION OF EDISON ILLUMINATING COMPANIES	AEIC
5)	CERTIFIED BALLAST MANUFACTURERS	CBM
6)	ELECTRICAL TESTING LABORATORIES	ETL
7)	ELECTRONIC/TELECOMMUNICATIONS INDUSTRIES ASSOCIATION	EIA/TIA
8)	ENERGY POLICY ACT OF 1992	EPACT
9)	FEDERAL AVIATION ADMINISTRATION	FAA
10)	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	IESNA
11)	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	IEEE
12)	INSULATED CABLE ENGINEERS ASSOCIATION	ICEA
13)	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEMA
14)	NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
15)	UNDERWRITERS' LABORATORIES	UL

C. SUBMITTALS:

1) PRODUCT DATA SHALL BE PREPARED AND SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION FOR THE FOLLOWING PRODUCTS: CABINETS, ACCESS PANELS, SUPPORTS, RACEWAY COMPONENTS, FLOOR BOXES, FIRE PROOF FITTINGS, WIRE, FUSES, CIRCUIT BREAKERS, RECEPTACLES, TOGGLE SWITCHES, SLIDE DIMMERS, DISCONNECT SWITCHES, MOTOR STARTERS, CONTACTORS, LIGHTING FIXTURES, BALLASTS, LAMPS, CONTROLS, FIRE ALARM DEVICES, LIFE SAFETY DEVICES, AND ELECTRIC HEATING EQUIPMENT.

2) SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION FOR THE FOLLOWING PRODUCTS: METERING EQUIPMENT, DISTRIBUTION PANELBOARDS, BRANCH PANELBOARDS, TRANSFORMERS, CABLE TRAY, DIMMING EQUIPMENT, FIRE ALARM EQUIPMENT, AND LIFE SAFETY EQUIPMENT.

3) TEST RESULTS SHALL BE PREPARED AND SUBMITTED PRIOR TO PROJECT COMPLETION FOR CABLE INSULATION, GROUNDING SYSTEM, EMERGENCY SYSTEM, FIRE ALARM SYSTEM, AND LIFE SAFETY SYSTEMS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION, AND APPLICABLE CODES AND AGENCY STANDARDS.

4) MANUFACTURERS INSTRUCTIONS SHALL BE PREPARED AND SUBMITTED PRIOR TO CONSTRUCTION INCLUDING INSTALLATION MANUALS WITH APPLICATION CONDITIONS AND LIMITATIONS FOR ELECTRICAL APPARATUS USE, STORAGE, HANDLING, PROTECTION, EXAMINATION, PREPARATION, INSTALLATION, AND STARTING.

5) PROJECT RECORD DOCUMENTS SHALL BE PREPARED USING AUTOCAD OR EQUIVALENT CAD PACKAGE. PROJECT RECORD DOCUMENTS SHALL BE SUBMITTED ON REPRODUCIBLE MEDIA PRIOR TO PROJECT COMPLETION FOR ELECTRICAL SYSTEMS. RECORD ACTUAL LOCATION OF EQUIPMENT, DEVICES, FIXTURES, ETC. RECORD ACTUAL ROUTING OF OVERHEAD FEEDERS. RECORD ACTUAL ROUTING OF FEEDERS BELOW SLAB AND BRANCH CIRCUITS WITHIN OR BELOW SLAB.

6) MAINTENANCE DATA SHALL BE PREPARED AND SUBMITTED PRIOR TO PROJECT COMPLETION FOR ELECTRICAL APPARATUS INCLUDING OPERATION MANUALS AND MAINTENANCE MANUALS.

D. COORDINATION:

1) ELECTRICAL ENGINEER: NOTIFY THE ENGINEER OF ANY CONFLICTING DESIGN INFORMATION OR ANY DESIGN INTENTIONS WHICH ARE NOT READILY INTERPRETED FROM THE CONTRACT DOCUMENTS PRIOR TO ANY PRODUCT SELECTION OR EXECUTION OF WORK. NOTIFY THE ENGINEER OF ANY PRODUCTS WHICH ARE DAMAGED, UNSUITABLE, INCOMPATIBLE, OR NON-COMPLIANT WITH ANY APPLICABLE CODES OR ORDINANCES OF ANY GOVERNING BODIES HAVING LAWFUL JURISDICTION.

2) CONSTRUCTION TRADES: COORDINATE WORK WITH OTHER CONSTRUCTION TRADES.

3) BUILDING MANAGEMENT: MEET ON SITE WITH THE BUILDING ENGINEER TO BECOME FAMILIAR WITH BUILDING STANDARDS. NORMAL BUILDING WORKING HOURS SHALL BE RECOGNIZED. AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE WITH PRIOR WRITTEN APPROVAL FROM BUILDING MANAGEMENT. ENCLOSE CONSTRUCTION AREA FROM OTHER AREAS TO PREVENT TRANSMISSION OF DUST, DIRT AND NOISE INTO OTHER EXISTING TENANT AREAS. PRODUCT AND WASTE TRANSFER SHALL BE COORDINATED WITH BUILDING MANAGEMENT FOR SCHEDULING OF THE ELEVATORS, DELIVERIES, AND WASTE REMOVAL.

4) EXISTING BUILDING SYSTEMS: REVIEW BUILDING STANDARDS WITH THE BUILDING ENGINEER. PERFORM A SITE VISIT TO VERIFY THE EXISTING SITE CONDITIONS. COSTS ASSOCIATED WITH UNFORESEEN CONDITIONS AS RESULT OF NOT PERFORMING A SITE VISIT SHALL NOT BE AN ENTITLEMENT FOR AN INCREASE TO THE CONTRACT. CONSTRUCTION SHALL BE PERFORMED WITHOUT INTERRUPTION TO THE BUILDING POWER, COMMUNICATIONS, SECURITY, FIRE ALARM AND LIFE SAFETY SYSTEMS, OR INTERFERENCE TO COMMON AREAS, CORRIDORS, EXITS OR EXISTING TENANTS. WHERE ANY CONSTRUCTION WOULD INTERFERE WITH THE DAILYOPERATIONS OF THE BUILDING OR OTHER TENANTS, AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE PROVIDED AT NO INCREASE TO THE CONTRACT.

E. WARRANTEE AND GUARANTEE

1) PROVIDE WARRANTEE AND MANUFACTURERS CERTIFICATE FOR EACH PRODUCT, MINIMUM OF ONE YEAR OR LONGER AS SPECIFIED, FROM THE DATE OF OCCUPANCY. REPAIR AND/OR REPLACE ANY EQUIPMENT, DEVICES, FIXTURES, MATERIALS, ETC. WITH DEFECT AS REQUIRED AT NO INCREASE TO THE CONTRACT.

2) PROVIDE GUARANTEE OF INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF OCCUPANCY. REPAIR AND/OR REINSTALL ANY WORK WITH DEFECT AS REQUIRED AT NO INCREASE TO THE CONTRACT. PROVIDE GUARANTEE OF REWORK FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF REPAIR OR REINSTALLATION.

3) DAMAGE CAUSED TO FINISHES, SURFACES, CEILING TILES, EQUIPMENT, ETC. SHALL BE REPAIRED AND/OR REPLACED TO MATCH THE PRE-EXISTING CONDITION AT NO INCREASE TO THE CONTRACT.

F. PAY FEES AND OTHER CHARGES INCIDENTAL TO THE ELECTRICAL WORK AND OBTAIN AND PAY FOR REQUIRED LIABILITY AND CASUALTY INSURANCE, PERMITS, LICENSES, INSPECTIONS, TAXES, ETC.

1

G. CONSTRUCTION SHALL BE DONE DURING REGULAR WORKING HOURS AND DAYS, UNLESS OTHERWISE SPECIFIED. WORK REQUIRED TO BE PERFORMED DURING OVERTIME HOURS OR DAYS SHALL BE AS INDICATED.

H. ALLOW FOR 2 MAN-HOURS OF TRAINING TO THE OWNERS STAFF FOR THE OPERATION OF THE ELECTRICAL SYSTEMS.

I. SUBSTITUTIONS ARE NOT ACCEPTABLE.

2. PRODUCTS

A. CABINETS, ENCLOSURES AND ACCESS PANELS SHALL BE CODE GAGE STEEL WITH BAKED ENAMEL FINISH AND FLANGELESS HINGES AND FASTENERS. EQUIPMENT BASES SHALL BE 3 INCH HIGH CONCRETE, STEEL BRACED AND REINFORCED WITH 1/4 INCH CHAMFER, AND SHALL EXTEND A MINIMUM OF 2 INCHES AROUND BASE OF EQUIPMENT. VIBRATION ISOLATION SHALL BE SPRING ELEMENTS IN SUSPENDED RODS AND ISOLATION PADS BELOW EQUIPMENT, ELECTRICAL CONNECTIONS SHALL BE FLEXIBLE CONDUIT.

B. CONDUITS SHALL BE HOT-DIPPED GALVANIZED OR ELECTRO-GALVANIZED STEEL, MINIMUM SIZE SHALL BE 3/4 INCH, EXCEPT POWER BRANCH CIRCUITS MAY BE 1/2 INCH (UNLESS NOTED OTHERWISE) AND FLEXIBLE CONNECTIONS TO RECESSED LIGHTING FIXTURES WHICH MAY BE 3/8 INCH. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED STEEL, WITH UL LISTED LIQUID TIGHT JACKET AS REQUIRED, FOR FINAL CONNECTIONS TO MOTORS, RECESSED LIGHTING FIXTURES, AND LIFE SAFETY DEVICES. SUPPORTS, INCLUDING CHANNELS, ANGLES, RODS, AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED STEEL. MANUFACTURER SHALL BE ALLIED, LTV/REPUBLIC, STEELDUCT, OR WHEATLAND.

C. CONDUIT FITTINGS SHALL BE STEEL, DIE CAST FITTINGS OF POT METAL ARE NOT ACCEPTABLE. ELECTRICAL METALLIC TUBING (EMT) FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS; SET SCREW FITTINGS ARE NOT ACCEPTABLE. INTERMEDIATE METAL CONDUIT (IMC) AND HEAVY WALL CONDUIT (HWG) FITTINGS SHALL BE OF THREADED JOINTS; SET SCREW AND COMPRESSION FITTINGS ARE NOT ACCEPTABLE. MANUFACTURER SHALL BE APPLETON, CROUSE HINDS/MIDWEST, OZ/GGEDNEY, RACO, STEEL CITY, OR T&B.

D. OUTLET BOXES FOR ALL TOGGLE SWITCHES, RECEPTACLES, COMMUNICATIONS DEVICES, FIRE ALARM DEVICES, AND LIFE SAFETY DEVICES SHALL INCLUDE PLASTER RINGS, DEVICE PLATES, AND COVER PLATES WHERE REQUIRED. PROVIDE BOXES SUITABLE FOR PLENUM, WET, OR HAZARDOUS LOCATIONS AS REQUIRED. DEVICE COVER PLATES SHALL BE STAINLESS STEEL PAINTED TO MATCH FINISH. MULTI-GANG OUTLET BOXES SHALL INCLUDE SUITABLE ONE-PIECE DEVICE COVER PLATE. OUTLETS LOCATED ON OPPOSITE SIDES OF A PARTITION SHALL BE STAGGERED BY 12 INCHES, MINIMUM. MANUFACTURER SHALL BE APPLETON, RACO, OR STEEL CITY.

E. CABLE MANAGEMENT RACEWAY SYSTEMS INCLUDING SURFACE MOUNTED, SUSPENDED, OR FLUSH IN-FLOOR OR IN-WALL DUCTS, ADJUSTABLE SUPPORTS, ELVOWS, FITTINGS, AND ALL REQUIRED ACCESSORIES SHALL BE OF UL STANDARD GALVANIZED STEEL, AND SHALL BE SIZED IN ACCORDANCE WITH CODE TO ADEQUATELY FACILITATE PULLING AND CONNECTING THE QUANTITY AND SIZE OF WIRES AND CABLES CONTAINED. MANUFACTURER SHALL BE WIREMOLD OR STEEL CITY.

F. WIRE SHALL BE 600 VOLT INSULATED COPPER, MINIMUM SIZE SHALL BE NO.12 AWG, WIRE SIZES NO.8 AWG AND LARGER SHALL BE STRANDED. MANUFACTURER SHALL BE AMERICAN INSULATED WIRE CORP., CERRO, COLLYER, CAPITOL WIRE AND CABLE, OKONITE, SENETOR, SOUTH WIRE, OR TRIANGLE.

G. HCF-MC CABLE IS ACCEPTABLE FOR BRANCH CIRCUIT WIRING TO FEED NEW DEVICES IN EXISTING WALLS. MC CABLE SHALL BE TERMINATED IN A JUNCTION BOX IN AN ACCESSIBLE CEILING CAVITY WITHIN 24" OF LEAVING THE WALL CAVITY. MC CABLE IS NOT ACCEPTABLE WHERE NOT PERMITTED BY CODE, FOR FEEDERS, OR TO FEED MECHANICAL EQUIPMENT.

H. CABLE SUPPORTS SHALL BE APPROPRIATE FOR THE SIZE OF CONDUIT AND TYPE OF WIRE AND CABLES. CABLE LUBRICANT SHALL BE LESS THAN SIX PERCENT SOLID RESIDUE AFTER DRYING AND SHALL NOT CONTAIN ANY WAXES, GREASES, SILICONES, OR GLYCOL OILS.

I. LOCAL DISCONNECT SWITCHES FOR ELECTRICALLY OPERATED EQUIPMENT SHALL BE HEAVY DUTY WITHIN ENCLSOURE SUITABLE FOR THE LOCATION. ` FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCHES 600 AMPS AND SMALLER SHALL BE QUICK-MAKE, QUICK-BREAK TYPE. MANUFACTURER SHALL BE EATON OR SQUARE D.

J. OVERCURRENT AND SHORT CIRCUIT PROTECTION WITHIN FUSIBLE SWITCHES SHALL BE CLASS RK-1 CURRENT LIMITING TIME DELAY FUSES FOR SWITCHES RATED 600 AMPS AND SMALLER. MANUFACTURER SHALL BE BUSSMANN.

K. TRANSFORMERS SHALL BE ALUMINUM WOUND, DRY TYPE VENTILATED, 115°C RISE WITH NEMA STANDARD VOLTAGE TAPS AND SOUND RATINGS. TRANSFORMERS SERVING NON-LINEAR LOADS SHALL BE K-13 RATED OR BETTER FOR THE ORDER AND MAGNITUDE OF HARMONIC CONTENT. TRANSFORMERS SERVING ISOLATED GROUND DISTRIBUTION SYSTEMS SHALL BE SHIELDED ISOLATION TYPE. MANUFACTURER SHALL BE MAGNETEK/JEFFERSON, SOLA/HEAVY DUTY, SQUARE D/SORGEL.

L. GROUNDING SYSTEM, INCLUDING SERVICE AND EQUIPMENT GROUNDING AND BONDING, SHALL BE IN ACCORDANCE WITH CODE AND SHALL CONNECT ALL ELECTRICALLY OPERATED EQUIPMENT. PROVIDE A SEPARATE GREEN GROUND WIRE FOR EACH BRANCH CIRCUIT AND FEEDER.

M. RECEPTACLES SHALL BE DUPLEX NEMA 5-20R, BACK AND SIDE WIRED, HOSPITAL SPECIFICATION GRADE, UNLESS NOTED OTHERWISE. SPECIAL RECEPTACLE CONFIGURATIONS SHALL BE AS REQUIRED OR AS INDICATED ON THE CONTRACT DOCUMENTS. GENERAL RECEPTACLE COLOR SHALL BE IVORY FOR NORMAL POWERED RECEPTACLES AND RED FOR CRITICAL POWERED RECEPTACLES UNLESS SPECIFIED OTHERWISE, VERIFY COLOR WITH ARCHITECT. MANUFACTURER SHALL BE BRYANT, HUBBELL, LEVITON, OR PASS & SEYMOUR.

N. NEW FIRE ALARM DEVICES PROVIDED WITHIN EXISTING SYSTEMS SHALL MATCH EXISTING DEVICE MANUFACTURER AND TYPE. STROBES SHALL MEET ADA GUIDELINES FOR THE APPLICATION AND SHALL BE RATED 75CD. STROBES RATED 15/75CD WITH 75CD ON AXIS ARE NOTE ACCEPTABLE. EXISTING FIRE ALARM DEVICES SHALL BE EXTENDED AS REQUIRED EXISTING FIRE ALARM EQUIPMENT SHALL BE EXPANDED AS REQUIRED WITH ANY ADDITIONAL COMPONENTS FOR PROPER OPERATION OF NEW DEVICES ON EXISTING EQUIPMENT.

3. EXECUTION

A. PENETRATIONS AND CHANNELS IN FLOORS AND WALLS SHALL BE VIA CUTTING AND CORING AS REQUIRED FOR THE SIZE OF PRODUCT, ONLY IN ACCORDANCE WITH THE ARCHITECT AND ENGINEER RECOMMENDATIONS, AND AS SCHEDULED WITH THE BUILDING MANAGEMENT. PATCH AND FILL SLEEVES, INSERTS, PENETRATIONS, AND CHANNELS WITH APPROPRIATE CODE APPROVED FIRE SAFING OR FILLING TO MATCH OR RESTORE THE ORIGINAL FIRE RATING OF THE CONSTRUCTION.

B. MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT, FIXTURES, AND EVICES WITH FLEXIBLE METAL CONDUIT OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT AS REQUIERD. EXTEND GROUND WIRE THROUGH FLEXIBLE CONNECTIONS.

C. INSTALL CONDUIT, FITTINGS, SUPPORTS, ETC. IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. THE VOLTAGES IDENTIFIED IN THE FOLLOWING SCHEDULES ARE LINE-TO-LINE OR LINE-TO-NEUTRAL. INTERIOR CONCEALED LOCATIONS ARE THOSE LOCATIONS WHICH ARE ABOVE CEILINGS, WITHIN WALLS, WITHIN FLOOR SLABS, AND WITHIN DEDICATED ELECTRICAL ROOMS. CONDUIT INSTALLATION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

VOLTAGE LOCATION	0V THRU 50V	ABOVE 50V THRU 250V	ABOVE 250V THRU 600V	ABOVE 600V
INTERIOR CONCEALED	EMT	EMT	≤ 2"EMT ≥ 2 1/2"IMC	HWG
INTERIOR EXPOSED	EMT	≤ 2"EMT ≥ 2 1/2"IMC	IMC	HWG
EXTERIOR AND HAZARDOUS LOCATIONS	EMT	IMC	HWG	HWG

E. INSTALL PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. BOXES SHALL INCLUDE ACCESSIBLE COVERS, SHALL BE FABRICATED OF HEAVY GAGE GALVANIZED STEEL, AND SHALL BE SIZED WITH CODE TO ADEQUATELY FACILITATE PULLING AND CONNECTING THE QUANTITY OF WIRES, CABLES, AND FEEDERS CONTAINED. CONDUIT TERMINATIONS SHALL BE MADE WITH BUSHINGS AND LOCKNUTS. SUPPORTS FOR CONDUITS AND BOXES SHALL BE SUSPENDED DIRECTLY TO THE BUILDING STRUCTURAL COMPONENTS AND IN NO CASE SHALL THEY BE ATTACHED TO SUSPENDED CEILING GRID, DUCTWORK, OR PIPING COMPONENTS.

F. INSTALL FEEDERS AND BRANCH CIRCUIT WIRING IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. COORDINATE INSTALLATION WITH PANEL MANUFACTURERS LUG PROVISIONS. INSTALL NORMAL POWER AND ESSENTIAL SYSTEMS WIRING WITHIN CONTINUOUS METAL RACEWAYS. INSTALL CONCEALED SECURITY AND COMMUNICATIONS WIRING WITHIN CONTINUOUS METAL RACEWAYS. SEPARATE EACH SYSTEM INTO INDEPENDENT RACEWAYS. PROVIDE CABLE SUPPORTS AS REQUIRED. TERMINATE CABLES PER CODE AND MANUFACTURERS RECOMMENDATIONS. PROVIDE (2) HOLE LUGS FOR CABLES 250 KCMIL AND LARGER. POWER WIRING INSULATION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

WIRE LOCATION	300 KCMIL AND SMALLER	350 KCMIL AND LARGER	ENVIRONMENTAL CONDITIONS
INTERIOR LOCATIONS	THHN/THWN	XHHW	DRY

G. INSTALL ELECTRICAL DISTRIBUTION EQUIPMENT AND DEVICES IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS.

H. INSTALL GROUNDING SYSTEMS IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS.

I. INSTALL LIGHTING AND ASSOCIATED CONTROLS, INCLUDING FIXTURES, DRIVERS, TOGGLE SWITCHES, SLIDE DIMMERS, DIMMING EQUIPMENT, LIGHTING CONTACTORS, ETC. IN ACCORDANCE WITH CODEE, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.

J. INSTALL SINGLE AND MULTIPLE DEVICE COVER PLATES AS REQUIRED. EXTEND EXISTING DEVICES TO FINISHED SURFACE AS REQUIRED.

K. INSTALL FIRE ALARM AND OTHER LIFE SAFETY SYSTEMS IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.

L. INSTALL INSCRIPTION PLATES AND IDENTIFICATION MARKINGS FOR PRODUCTS AND WIRING INCLUDING THE SAME INSCRIPTIONS WHERE INDICATED ON THE CONTRACT DOCUMENTS. INSTALL PLASTIC LAMINATE NAMEPLATES ON ENCLOSURES FOR EACH DEVICE WITHIN METERING EQUIPMENT, DISTRIBUTION PANELBOARDS, BRANCH PANELBOARDS, MOTOR STARTERS, DISCONNECT SWITCHES, TRANSFORMERS, AND CONTACTORS. NAMEPLATES SHALL BE WHITE WITH BLACK CORE, 1-1/4 INCHES BY 3 INCHES MINIMUM, WITH 3/16 INCH LETTERING, SECURED TO EQUIPMENT WITH TWO MACHINE SCREWS. PREPARE AND INSTALL TYPE-WRITTEN PANEL DIRECTORY WITHIN EACH BRANCH PANEL. DEVICE PLATES SHALL BE ENGRAVED FOR TOGGLE SWITCHES AND OTHER DEVICES WHOSE FUNCTION IS NOT READILY APPARENT. MARKERS SHALL BE SELF-STICKING FOR EACH WIRE AND CABLE AT TERMINATIONS AND AT EACH ACCESSIBLE POINT IN EQUIPMENT AND RACEWAY.

M. CLEAN ELECTRICAL APPARATUS PRIOR TO COMPLETION OF CONSTRUCTION. KEEP WORK AREAS CLEAN AT ALL TIMES.

N. ALTERATIONS AND DEMOLITION OF EXISTING SYSTEMS SHALL BE AS FOLLOWS:

1) PROVIDE ALL ALTERATIONS AND DEMOLITION OF THE EXISTING ELECTRICAL INSTALLATION AS REQUIRED, INCLUDING ANY INCIDENTAL MATERIALS TO EXECUTE ALL REMOVAL, REROUTING, RELOCATION, AND ANY OTHER MODIFICATIONS FOR PROPER ACCOMMODATION OF ALL NEW CONSTRUCTION AS INDICATED ON THE CONTRACT DOCUMENTS. ALL ALTERATIONS AND DEMOLITION SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS OR AS REQUIRED, INCLUDING ANY MODIFICATIONS NOT SPECIFICALLY IDENTIFIED ON ANY CONTRACT DOCUMENTS BUT REQUIRED TO COMPLETE ALL NEW CONSTRUCTION.

2) PROVIDE ALL MODIFICATIONS TO EXISTING EQUIPMENT AS REQUIRED OR AS INDICATED ON THE CONTRACT DOCUMENTS IN STRICT ACCORDANCE WITH THE EXISTING PRODUCT MANUFACTURERS RECOMMENDATIONS.

3) EXISTING RACEWAY, WIRE AND CABLE EXTENDING THROUGH THE CONSTRUCTION AREA BUT SERVING AREAS OUTSIDE THE CONTRACT SHALL BE REROUTED AND RECONNECTED AS REQUIRED. ALL MODIFICATIONS SHALL BE WITHOUT ANY INTERRUPTION TO THE BUILDING POWER, COMMUNICATIONS, SECURITY, FIRE ALARM AND LIFE SAFETY SYSTEMS, OR INTERFERENCE TO OTHER AREAS OR TENANTS. WHERE ANY MODIFICATIONS WOULD INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING OR OTHER TENANTS, AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE PROVIDED WITH PRIOR WRITTEN APPROVAL FROM THE BUILDING.

4) EXISTING CONDUIT, WIRE, CABLE, SUPPORTS, HANGERS, AND OTHER ELECTRICAL INSTALLATION WHICH IS REMOVED, SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST DEVICE OR THAT EQUIPMENT WHICH IS UNAFFECTED BY THE MODIFICATIONS. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLE MAY BE ABANDONED AND CAPPED AT EACH END. ALL WIRE AND CABLE SHALL BE REMOVED FROM ANY ABANDONED CONDUIT.

5) EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SPEAKERS, CONDUIT, OUTLET BOXES, FITTINGS, WIRE, CABLE, AND OTHER EQUIPMENT AND DEVICES WHICH ARE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISCARDED AS DIRECTED.

6) REUSE EXISTING ELECTRICAL PRODUCTS AS INDICATED ON THE CONTRACT DOCUMENTS ONLY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF ALL SUCH PRODUCTS, DETERMINE SUITABILITY FOR RE-USE, AND PERIODICALLY NOTIFY THE ARCHITECT/ENGINEER OF FINDINGS FOR FINAL ACCEPTANCE OF RE-USE. WIRE AND CABLE FOR NEW CONSTRUCTION OR EXTENSION OF AN EXISTING INSTALLATION SHALL BE NEW, IN NO CASE SHALL EXISTING WIRE AND CABLE BE REUSED.

7) REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FULL EXTENT AND SCOPE OF PARTITION AND CEILING MODIFICATIONS.
   a. EXISTING CEILINGS TO REMAIN SHALL NOT BE ALTERED EXCEPT WHERE REMOVAL AND REPLACEMENT OF SURFACES IS REQUIRED TO MODIFY SYSTEMS WITHIN CEILING SPACE.
   b. EXISTING CEILINGS TO BE REMOVED SHALL INCLUDE DEMOLITION OF ALL FIXTURES, EQUIPMENT, SPEAKERS, RACEWAY, AND WIRE, INCLUDING ANY OBSOLETE OR PREVIOUSLY ABANDONED PRODUCTS. REMAINING AREAS SHALL ONLY BE ALTERED AS REQUIRED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   c. EXISTING PARTITIONS TO REMAIN SHALL NOT BE ALTERED EXCEPT WHERE REMOVAL AND REPLACEMENT OF SURFACES IS REQUIRED TO MODIFY SYSTEMS WITHIN PARTITIONS.
   d. EXISTING PARTITIONS TO BE REMOVED SHALL INCLUDE DEMOLITION OF ALL DEVICES, RACEWAY AND WIRE INCLUDING ANY OBSOLETE OR PREVIOUSLY ABANDONED PRODUCTS. RACEWAY AND WIRING SYSTEMS SERVING OTHER REMAINING AREAS SHALL ONLY BE ALTERED AS REQUIRED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   e. EXISTING FLOOR MOUNTED DEVICES SHALL BE DEMOLISHED. PROVIDE ABANDONING PLATES AND FIRE PROOFING AS REQUIRED.

8) REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR FULL EXTENT AND SCOPE OF ELECTRICALLY OPERATED EQUIPMENT MODIFICATIONS.
   a. DEMOLITION OF EXISTING MECHANICAL EQUIPMENT SHALL INCLUDE ASSOCIATED DISCONNECTS, RACEWAY, WIRE AND CONTROLS.

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No.	Description	Date
1	Addendum 01	7/6/2022

COLORADO LICENSED PROFESSIONAL ENGINEER MICHAEL P THOMPSON 53150

7/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	JC
Checked by	JG

Sheet Title

ELECTRICAL NOTES

Sheet Number

E.001

7/7/2022 1:46:02 PM

RSN: 1634377
Permit#: 22-2165629-LT

PANEL DESIGNATION: L1A | LOCATION: | MOUNTING: SURFACE | FAULT DUTY: 10,000
MLO: 125A | MAIN: N/A | BUS: 125A VOLTS: 208/120 | PHASE: 3 | WIRE: 4

EQUIPMENT DESCRIPTION	DMD	WATTS A	WATTS B	WATTS C	BRKR SIZE			BRKR SIZE	WATTS A	WATTS B	WATTS C	DMD	EQUIPMENT DESCRIPTION
EXISTING	G	0			20/1	1	2	20/1				G	EXISTING
EXISTING	G				20/1	3	4	20/1				G	EXISTING
EXISTING	G				20/1	5	6	20/1				G	EXISTING
EXISTING	G				20/1	7	8	20/1				G	EXISTING
EXISTING	G				20/1	9	10	20/1				G	EXISTING
EXISTING	G				20/1	11	12	20/1				G	EXISTING
EXISTING	G				20/1	13	14	20/1				G	EXISTING
EXISTING	G				20/1	15	16	20/1				G	EXISTING
EXISTING	G				20/1	17	18	20/1				G	EXISTING
EXISTING	G				20/1	19	20	20/1	1080			G	RECP REGISTRATION
RECP REGISTRATION	G		900		20/1	21	22	20/1				G	[OFF]
RECP REGIATRATION	G			1080	20/1	23	24	20/1				G	EXISTING
[OFF]	G				15/1	25	26	15/1				G	[OFF]
						27	28						
						29	30						

TOTAL "A"	0	1080	1080	3.1 CONN.KVA
TOTAL "B"	900	900	0	8.5 CONN. AMPS
TOTAL "C"	1080	1080	0	3.1 DEMAND KVA
TOTAL "A,B,C"		3060 CONN.		8.5 DEMAND AMPS
		3060 DEMAND		3.1 DESIGN KVA
		3060 DESIGN		8.5 DESIGN AMPS

NOTES:
1. PANELBOARD IS EXISTING, NET CHANGE IN LOAD IS LESS THAN 1% OF THE PANELBOARD RATING.
2. LOADS SHOWN ARE NEW CONSTRUCTION LOADS ONLY. REUSE EXISTING CIRCUITS AND CIRCUIT BREAKERS AS IS PRACTICABLE. PROVIDE NEW CIRCUIT BREAKER ONLY AS REQUIRED, MATCH EXISTING PANELBOARD MANUFACTURER AND AIC RATING.

PANEL DESIGNATION: LSL1A | LOCATION: | MOUNTING: SURFACE | FAULT DUTY: 10,000
MLO: X | MAIN: 60A | BUS: 125A VOLTS: 208/120 | PHASE: 3 | WIRE: 4

EQUIPMENT DESCRIPTION	DMD	WATTS A	WATTS B	WATTS C	BRKR SIZE			BRKR SIZE	WATTS A	WATTS B	WATTS C	DMD	EQUIPMENT DESCRIPTION
LTS REGISTRATION	G	846			20/1	1	2	20/1				G	EXISTING
LTS WAITING	G		1331		20/1	3	4	20/1				G	EXISTING
[OFF]	G				20/1	5	6	20/1				G	EXISTING
EXISTING	G				20/1	7	8					G	
[OFF]	G				20/1	9	10					G	
	G					11	12					G	
EXISTING	G				20/1	13	14					G	
	G					15	16					G	
EXISTING	G				20/1	17	18					G	
	G					19	20					G	
	G					21	22					G	
	G					23	24					G	

TOTAL "A"	846	846	0	2.2 CONN.KVA
TOTAL "B"	1331	1331	0	6.0 CONN. AMPS
TOTAL "C"	0	0	0	2.2 DEMAND KVA
TOTAL "A,B,C"		2177 CONN.		6.0 DEMAND AMPS
		2177 DEMAND		2.2 DESIGN KVA
		2177 DESIGN		6.0 DESIGN AMPS

NOTES:
1. PANELBOARD IS EXISTING, NET CHANGE IN LOAD IS LESS THAN 1% OF THE PANELBOARD RATING.
2. LOADS SHOWN ARE NEW CONSTRUCTION LOADS ONLY. REUSE EXISTING CIRCUITS AND CIRCUIT BREAKERS AS IS PRACTICABLE. PROVIDE NEW CIRCUIT BREAKER ONLY AS REQUIRED, MATCH EXISTING PANELBOARD MANUFACTURER AND AIC RATING.

PANEL DESIGNATION: LPQA | LOCATION: | MOUNTING: SURFACE | FAULT DUTY: 10,000
MLO: N/A | MAIN: 100A | BUS: 125A VOLTS: 208/120 | PHASE: 3 | WIRE: 4

EQUIPMENT DESCRIPTION	DMD	WATTS A	WATTS B	WATTS C	BRKR SIZE			BRKR SIZE	WATTS A	WATTS B	WATTS C	DMD	EQUIPMENT DESCRIPTION
EXISTING	G				20/1	1	2	20/1				G	EXISTING
EXISTING	G				20/1	3	4	20/1				G	EXISTING
EXISTING	G				20/1	5	6	20/1				G	EXISTING
EXISTING	G				20/1	7	8	20/1				G	EXISTING
EXISTING	G				20/1	9	10	20/1				G	EXISTING
EXISTING	G				20/1	11	12	20/1				G	EXISTING
EXISTING	G				20/1	13	14	20/1	900			G	RECP WAITING
EXISTING	G				30/2	15	16	20/1		500		G	WATER DISP VIA GFI CB
EXISTING	G				-	17	18	20/1			1400	G	COFFEE
[OFF]	G				20/1	19	20	20/1	900			G	RECP WAITING
EXISTING	G				20/1	21	22	20/1		900		G	RECP WAITING
[OFF]	G				20/1	23	24	20/1				G	[OFF]
EXISTING	G				20/1	25	26	20/1				G	[OFF]
EXISTING	G				20/1	27	28	20/1				G	[OFF]
[OFF]	G				20/1	29	30	20/1				G	[OFF]
EXISTING	G				20/1	31	32	20/1				G	[OFF]
EXISTING	G				20/1	33	34	20/1				G	[OFF]
[OFF]	G				20/1	35	36	20/1				G	[OFF]
[OFF]	G				50/2	37	38	20/1				G	[OFF]
EXISTING	G				-	39	40	20/1				G	[OFF]
[OFF]	G				20/1	41	42	20/1				G	[OFF]

TOTAL "A"	0	1800	1800	4.6 CONN.KVA
TOTAL "B"	0	1400	1400	12.8 CONN. AMPS
TOTAL "C"	0	1400	1400	4.6 DEMAND KVA
TOTAL "A,B,C"		4600 CONN.		12.8 DEMAND AMPS
		4600 DEMAND		4.6 DESIGN KVA
		4600 DESIGN		12.8 DESIGN AMPS

NOTES:
1. PANELBOARD IS EXISTING, NET CHANGE IN LOAD IS LESS THAN 1% OF THE PANELBOARD RATING.
2. LOADS SHOWN ARE NEW CONSTRUCTION LOADS ONLY. REUSE EXISTING CIRCUITS AND CIRCUIT BREAKERS AS IS PRACTICABLE. PROVIDE NEW CIRCUIT BREAKER ONLY AS REQUIRED, MATCH EXISTING PANELBOARD MANUFACTURER AND AIC RATING.

Every circuit and circuit modification shall be legibly Identified as to it's clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. 2020 NEC 408.4

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP QUAN	LAMP TYPE/CRI-CT	FIXTURE VOLT	FIXTURE WATTS	MANUFACTURER	ITEM NUMBER	REMARKS
F1	2x2 LED FLAT PANEL	-	LED	120	32.2	LITHONIA	# EPANL LED 2X2 4000LM 80CRI 40K MIN10 ZT MVOLT	NOTES 1-4
1 F1A	2x2 LED FLAT PANEL, - NOTE 5	-	LED	120	39.5	GE	# LPL22 B 03XMM 840 VQ LT WHITE	NOTES 1-3, 5
F2	PANO LED LINEAR CEILING PANEL	-	LED	120	81.6	XAL USA	# PANO3-XX-SN-PS-OP-40K-C80-UNV-010V-875LF	NOTES 1-3
F3	LED ECHO MINI PENDANT	-	LED	120	11.0	WAC LIGHTING	# PD-4121-XX	NOTES 1-3
F4	LED 4FT STRIP MOUNTED IN SOFFIT	-	LED	120	32.9	LITHONIA	# CLXL48-3000LM-SEF-FDL-ND-MVOLT-GZ10-40K-80CRI	NOTES 1-3
F5	LED UNDERCABINET LIGHT	-	LED	120	26.3	HEALTHCARE LIGHTING	# HUC546 120 LED 30 S1	NOTES 1-3
EXT #3 XX	EXIT SIGN, WHITE WITH RED LETTERING	-	LED	120	5.0	LITHONIA	# LE-P-W-1-R-120/277	NOTES 1-2, 4

NOTES:
1. MANUFACTURERS' CATALOG NUMBERS ARE INTENTIONALLY INCOMPLETE; COORDINATE REQUIRED TRIM KITS, MOUNTING BRACKETS, LAMPS, FINISHES, ETC. WITH THE LIGHTING DESIGNER, CONTRACT DOCUMENTS, SPECIFICATIONS, AND OTHER TRADES.
2. VERIFY TYPE OF CEILING OR WALL FOR MOUNTING OF LIGHTING FIXTURES PRIOR TO ORDERING.
3. COORDINATE LAMP COLOR TEMPERATURES WITH ARCHITECT/LIGHTING DESIGNER.
1 4. FIXTURE SHALL BE SALVAGED THROUGH DEMOLITION AND REINSTALLED. PROVIDE NEW FIXTURE AS REQUIRED MATCHING EXISTING FACILITY STANDARD. MODEL NUMBER SHOWN FOR REFERENCE ONLY.
5. REFER TO NOTE 4. EXISTING FIXTURES SHALL BE RE-USED AND RE-INSTALLED. IF QUANTITIES ARE INSUFFICIENT PROVIDE ADDITIONAL FIXTURE F1A TO SUPPLEMENT F1 QUANTITY REQUIREMENTS.

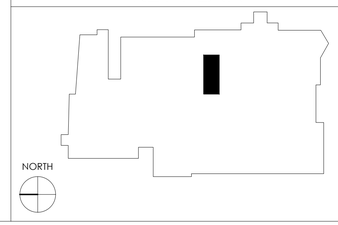
STANDALONE LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LOCATION
VS VS	LINE VOLTAGE, MANUAL ON, DUAL TECHNOLOGY OCCUPANCY/ VACANCY SENSOR SWITCH	SENSOR SWITCH	# WSX-PDT-SA # WSX-PDT-D-SA	
VS VS	LOW VOLTAGE, DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY/ VACANCY SENSOR	SENSOR SWITCH	# CM-PDT-9	
PP	POWER PACK FOR LOW VOLTAGE SENSOR	SENSOR SWITCH	# PP20	
LV	LOW VOLTAGE MOMENTARY SWITCH	SENSOR SWITCH	# SPODM-SA # SPODM-SA-3X	
LV,D	LOW VOLTAGE ON/OFF AND 0-10V DIMMER	SENSOR SWITCH	# SPODM-SA-D # SPODM-SA-D-3X	

NOTES:
1. MODEL NUMBERS ARE BASED ON SENSOR SWITCH.
2. COORDINATE LOCATION AND ORIENTATION OF SENSORS IN FIELD FOR PROPER ORIENTATION.
3. COORDINATE LOCATION OF CEILING OCCUPANCY SENSORS SO THAT DISTANCE BETWEEN ANY DIFFUSERS IS NO LESS THAN 6' TO PREVENT FALSE TRIGGERING.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Chris Dodson
Date: Feb 06, 2023
2015 INTERNATIONAL CODES & 2020 NEC

KEY PLAN



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No.	Description	Date
1	Addendum 01	7/6/2022

COLORADO LICENSED MICHAEL P THOMPSON 55150 PROFESSIONAL ENGINEER
7/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	JC
Checked by	JG

Sheet Title
ELECTRICAL DETAILS

Sheet Number
E.002

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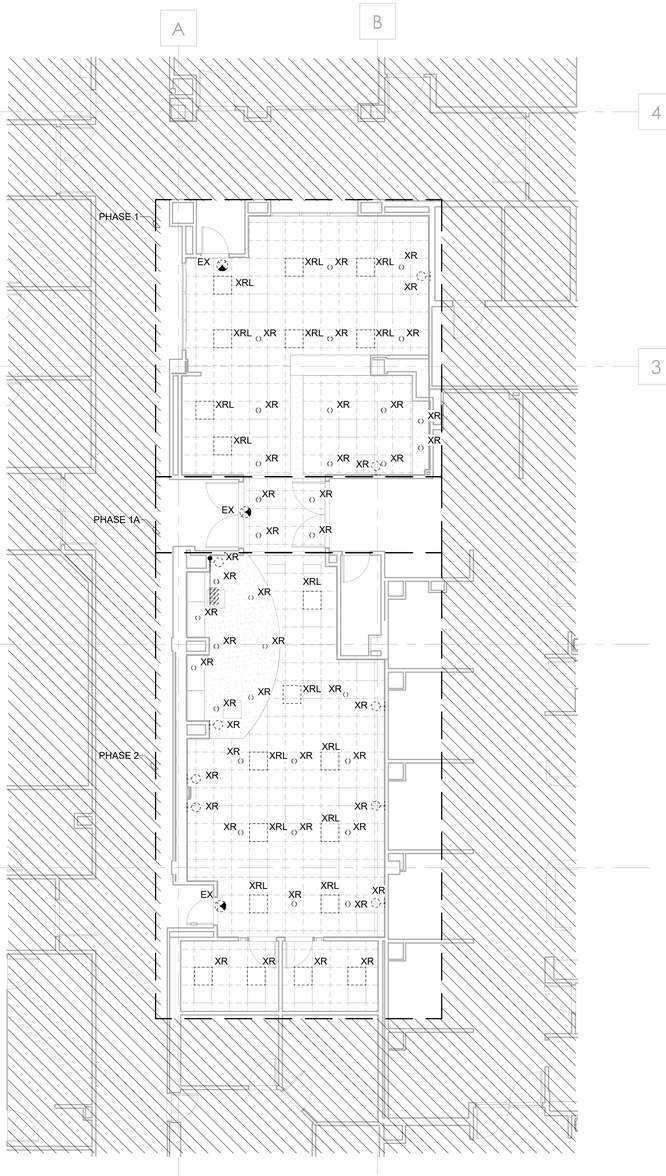
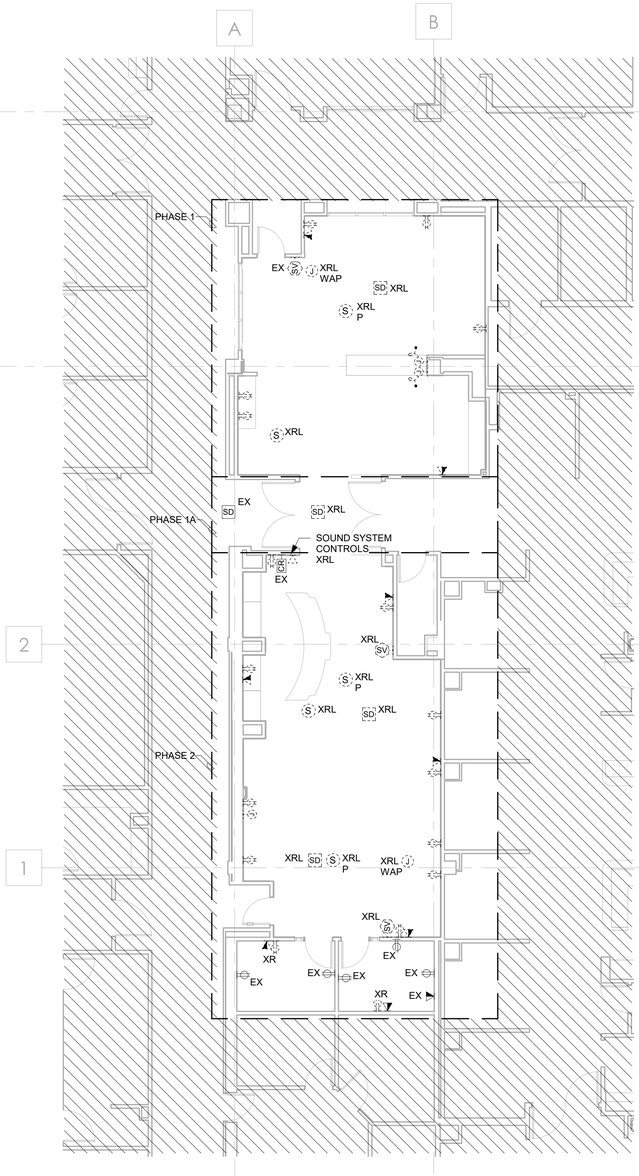
RSN: 1634377
Permit#: 22-2165629-LT



2 LEVEL 01 ELECTRICAL LIGHTING DEMOLITION RCP

1/8" = 1'-0"



1 LEVEL 01 ELECTRICAL POWER DEMOLITION PLAN

1/8" = 1'-0"

NOTES:

A. REFER TO ELECTRICAL SYMBOL LIST AND GENERAL NOTES.

B. REFER TO ELECTRICAL SPECIFICATIONS.

C. EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. EXISTING DEVICES SHOWN ARE TO CONVEY DESIGN INTENT ONLY AND SHALL NOT BE USED AS A RECORD OF EXACT CONDITIONS.

D. DEMOLITION AND BUILD-OUT WILL BE IN MULTIPLE PHASES. PHASE PER AREA ARE NOTED ON PLANS. REFER TO ARCHITECT SHEETS FOR DETAILED PHASING PLAN AND ADDITIONAL NOTES.

E. DEVICES NOTED 'XRL' ARE EXISTING TO BE RELOCATED. SALVAGE EXISTING DEVICE TO BE REINSTALLED IN A NEW LOCATION.

F. DEVICES MARKED 'EX' ARE EXISTING TO REMAIN. REMOVE AND SALVAGE AS REQUIRED FOR REINSTALLATION IN EXISTING LOCATION.

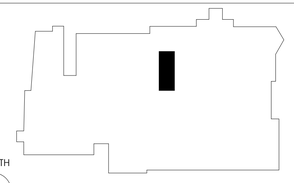
G. DEMOLISH ALL LIGHTING CONTROLS IN AREA OF WORK.

H. 2x2 FLATPANEL LIGHTING MARKED '2XRL' SHALL BE REMOVED, SALVAGED, AND REINSTALLED AS FIXTURE TYPE 'F1'.

I. DEMOLISH ALL POWER DEVICES, ALL FIRE ALARM, ALL TELE/DATA, AND ALL SPEAKER SYSTEMS WITHIN AREA OF WORK, U.N.O.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Chris Dodson*
Date: *Feb 06, 2023*
2015 INTERNATIONAL CODES & 2020 NEC

KEY PLAN



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No.	Description	Date

COLORADO LICENSED MICHAEL P. THOMPSON 55150 PROFESSIONAL ENGINEER

5/27/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
Project Number	21-047
Drawn by	JC
Checked by	JG

Sheet Title

ELECTRICAL DEMOLITION PLAN

Sheet Number

ED.201

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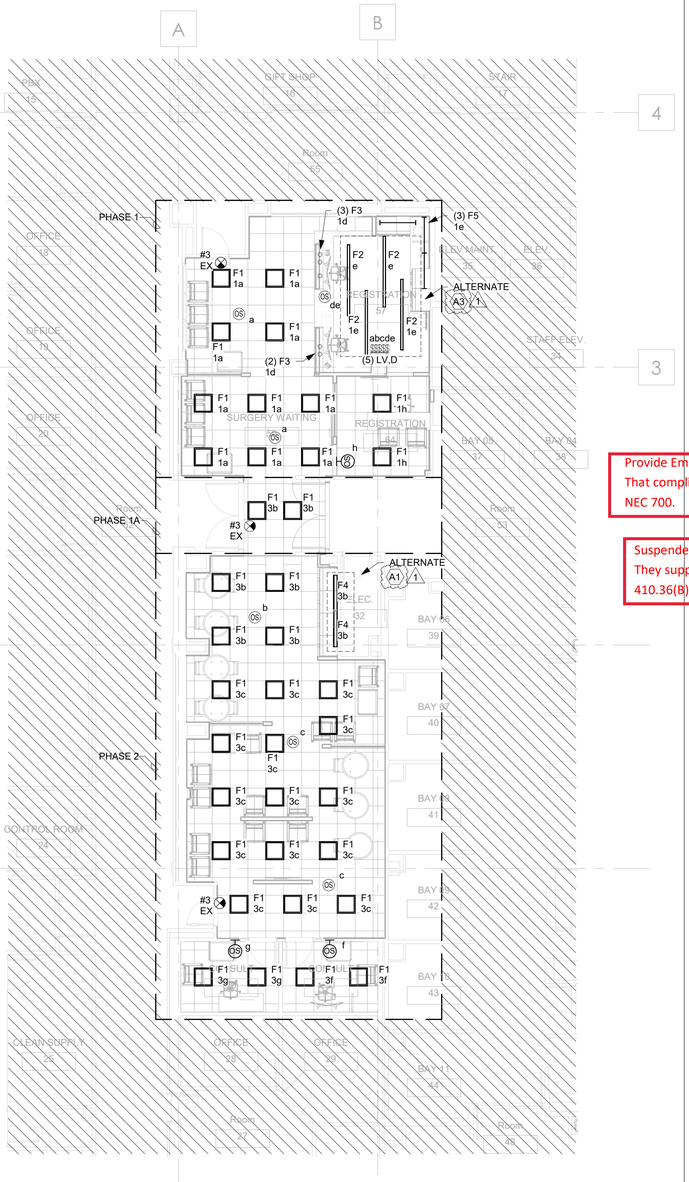


Tamper-resistant receptacles required in wainting rooms of medical facilities in accordance with 2020 NEC 406.12(5)

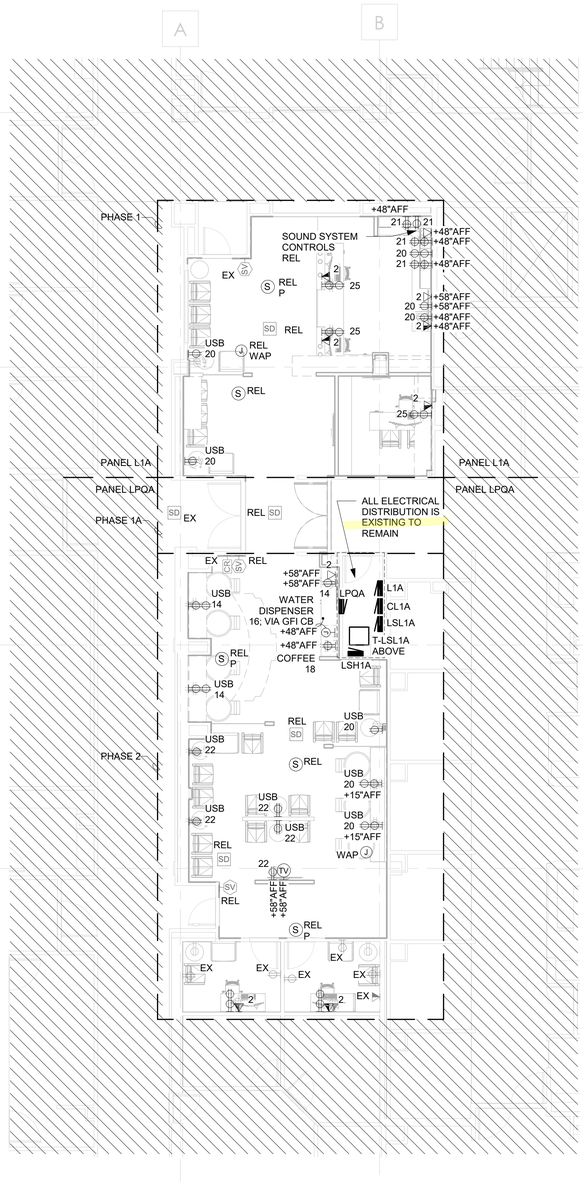
Provide Emergency Illumination Equipment That complies with 2020 NEC 700.12(F) or NEC 700.

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2020 NEC

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Chris Dodson*
Date: *Feb 06, 2023*
2015 INTERNATIONAL CODES & 2020 NEC

2 LEVEL 01 ELECTRICAL LIGHTING RCP

1/8" = 1'-0"



1 LEVEL 01 ELECTRICAL POWER PLAN

1/8" = 1'-0"

NOTES:

A. REFER TO ELECTRICAL SYMBOL LIST AND GENERAL NOTES.

B. REFER TO ELECTRICAL DEMOLITION SPECIFICATION.

C. EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. EXISTING DEVICES SHOWN ARE TO CONVEY DESIGN INTENT ONLY AND SHALL NOT BE USED AS A RECORD OF EXACT CONDITIONS.

D. DEMOLITION AND BUILD-OUT WILL BE IN MULTIPLE PHASES. PHASE PER AREA ARE NOTED ON PLANS. REFER TO ARCHITECT SHEETS FOR DETAILED PHASING PLAN AND ADDITIONAL NOTES.

E. DEVICES NOTED 'REL' ARE EXISTING DEVICES TO BE SALVAGED AND REINSTALLED IN NEW LOCATION SHOWN. SALVAGE AND EXTEND ALL EXISITNG WIRING AS REQUIRED.

F. DEVICES MARKED 'EX' ARE EXISTING TO REMAIN. REMOVE AND SALVAGE AS REQUIRED FOR REINSTALLATION IN EXISTING LOCATION.

G. FOR SIGNAL DEVICES PROVIDE EMPTY J-BOX AND EMPTY RACEWAY TO NEAREST CEILING, WIRING AND DEVICES BY LOW VOLTAGE CONTRACTOR.

H. COORDINATE DEVICE MOUNTING HEIGHTS WITH ARCHITECT.

I. ALL NEW POWER CONNECTIONS SHALL BE VIA EXISTING CIRCUITS FROM PANELBOARDS LOCATED IN ROOM ELEC 32. REFER TO GENERAL BRANCH POWER NOTES BELOW, REFER TO PLANS FOR CIRCUIT ASSIGNMENTS. CIRCUIT NUMBERS SHOWN ARE FOR DESIGN INTENT ONLY.

J. ALL LIGHTING SHALL BE FED VIA EXISTING 120V LIFE SAFETY BRANCH CIRCUITS FEEDING THE SPACE, WHICH ARE SOURCED FROM EXISTING PANELBOARD LSL1A, U.N.O.

K. ALL NEW POWER DEVICES SHALL BE FED VIA EXISTING 120V NORMAL BRANCH CIRCUITS SOURCED FROM EXISTING PANELBOARD L1A AND LPQA U.N.O., REFER TO PLANS FOR PANELBOARD DIVISION LINES.

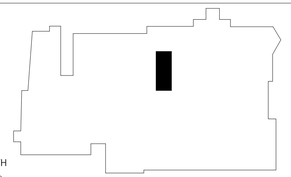
ALTERNATES: (A#)

REFER TO DESCRIPTION OF ALTERNATES IN PROJECT MANUAL.

A1. PROVIDE F4 LIGHTING FIXTURE AS SHOWN ON PLAN.

A3. PROVIDE F2 AND F3 LIGHTING FIXTURES IN PLANK CEILING AS SHOWN ON PLAN. BASE SCOPE OF WORK INCLUDES INSTALLATION OF (4) F1 FIXTURES WITHIN ACT CEILING CONTROLLED BY WALLBOX DIMMER. TYPE F5 UNDERCABINET LIGHTING FIXTURES SHALL BE PROVIDED AS PART OF BASE SCOPE OF WORK AND ARE NOT AFFECTED BY ALTERNATE.

KEY PLAN



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No.	Description	Date
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COLORADO LICENSED MICHAEL P THOMPSON 55150 PROFESSIONAL ENGINEER

7/06/2022

21-047 TMCA SOUTH OR SURGERY WAITING

1501 S. POTOMAC ST
AURORA, CO 80012

Issue	100% CD
Date	27 MAY 2022
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Drawn by	JC
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Sheet Number	E.201

RSN: 1634377
Permit#: 22-2165629-LT

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MEDICAL CENTER OF AURORA

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REV	REVISION DESCRIPTION	DWN	DATE

PROJECT #	39643
DATE:	05/26/22
SCALE:	AS NOTED
DRAWN BY:	RMW
SHEET #:	1/5

RSN: 1634377
Permit#: 22-2165629-LT

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SHEET #:	3/5

RSN: 163437
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DATE:	05/26/22
SCALE:	AS NOTED
DRAWN BY:	RMW
SHEET #:	4/5

RSN: 1634377
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SURGERY WAITING

PROPOSED

PROJECT #	39643
DATE:	05/26/22
SCALE:	AS NOTED
DRAWN BY:	RMW
SHEET #:	5/5

RSN: 1634377
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