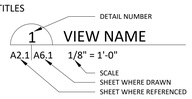
COMMUNITY HOSPITAL MOB 1 - PET/CT REMODEL

CONSTRUCTION DOCUMENTS

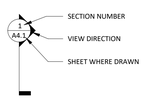
PROJECT SYMBOLS

VIEW REFERENCES

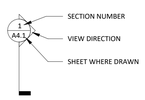
DRAWING TITLES



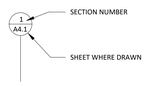
BUILDING SECTIONS



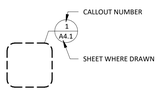
WALL SECTIONS



DETAIL SECTION



PLAN/DETAIL CALLOUTS



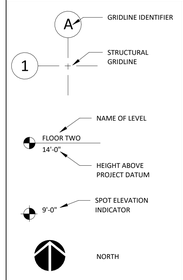
INTERIOR ELEVATIONS



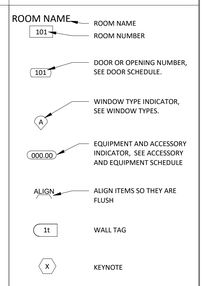
EXTERIOR ELEVATIONS



DATUM SYMBOLS



PROJECT SYMBOLS AND ANNOTATION



NOTE: SEE INDIVIDUAL SHEETS FOR ADDITIONAL SYMBOLS.

PROJECT DIRECTORY

OWNER
COMMUNITY HOSPITAL OF GRAND JUNCTION
2351 G. ROAD
GRAND JUNCTION, CO 80501
PHONE: 970.245.0484

ARCHITECT
BOULDER ASSOCIATES, INC.
1426 PEARL ST, STE 300
BOULDER, CO 80302
PHONE: 303.499.7795

STRUCTURAL ENGINEER
MARTIN/MARTIN
12499 WEST COLFAX AVENUE
LAKEWOOD, CO 80215
PHONE: 303-431-6100

MEP ENGINEER
WSP USA INC.
2000 SOUTH COLORADO BLVD.
STE 2-1000
DENVER, CO 80222
PHONE: 303-935-6505

PROJECT DATA

BUILDING ADDRESS: 2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

PROJECT DESCRIPTION: RENOVATION OF AN EXISTING IMAGING PRACTICE FOR A PET/CT MACHINE AND ASSOCIATED SUPPORT SPACES.

OCCUPANCY: SEE LIFE SAFETY PLAN (NO CHANGE TO EXISTING)

CONSTRUCTION TYPE: SEE LIFE SAFETY PLAN (NO CHANGE TO EXISTING)

EXISTING GROSS BUILDING AREA:

FIRST FLOOR	52,542 GSF
SECOND FLOOR	36,311 GSF
TOTAL	88,853 GSF

PROJECT RENOVATION AREA: 820 SF

HAZARDOUS MATERIALS: HAZARDOUS MATERIALS ARE NOT USED, STORED OR TRANSPORTED WITHIN THIS BUILDING IN QUANTITIES SUFFICIENT TO REQUIRE PROTECTION.

APPLICABLE CODES:
2024 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING CODE
2024 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2024 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2023 NATIONAL ELECTRICAL CODE
2017 ICC A117.1 ACCESSIBILITY CODE
2012 NFPA 101
2012 NFPA 99
2022 FGI GUIDELINES FOR DESING & CONSTRUCTION OF HOSPITALS

DEFERRED SUBMITTALS: FIRE SUPPRESSION SYSTEM
FIRE ALARM SYSTEM

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE CONTINUING. DO NOT SCALE DRAWINGS.
2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REVIEW THE ARCHITECTURAL DRAWINGS PRIOR TO PRICING AND BEFORE PROCEEDING WITH INSTALLATION OF ANY MECHANICAL, PLUMBING, OR ELECTRICAL WORK.
3. SEAL AROUND ALL INTERIOR JOINTS AT DOORS, WINDOWS, CABINETS, AND COUNTERTOPS. ALSO SEAL WHERE DOOR FRAMES INTERSECT WITH FLOORING.
4. ALL FIRE SPRINKLERS TO BE CONCEALED SPRINKLER HEADS WITH WHITE, SMOOTH, FLUSH COVER PLATES. AREAS WITHOUT CEILINGS SHOULD USE FULLY EXPOSED HEADS.

UNIT PRICES

1. UNIT PRICE 01 - PROVIDE A UNIT PRICE TO ADD A MOISTURE CONTROL SYSTEM PER SECTION 090561.13 "MOISTURE VAPOR EMISSION CONTROL", IN COST/SQUARE FOOT.

ALLOWANCES

1. ALLOWANCE 01 – PROVIDE AN ALLOWANCE TO ADD A MOISTURE CONTROL SYSTEM PER SECTION 090561.13 "MOISTURE VAPOR EMISSION CONTROL", WITH INSTALLATION CONTINGENT UPON MOISTURE TESTING RESULTS PER DIVISION 09 FLOORING SPECIFICATIONS. THE OWNER MAY ELECT TO USE THIS ALLOWANCE TO INSTALL A DIFFERENT (LESS EXPENSIVE) SYSTEM DEPENDING ON THE MOISTURE TEST RESULTS.

SHEET INDEX

0 - GENERAL
G0.01 COVER SHEET
G2.11 LIFE SAFETY PLAN
G3.01 FLOOR PLAN - FGI

4 - ARCHITECTURAL DEMO
AD2.11 DEMO FLOOR PLAN & RCP

5 - ARCHITECTURAL
A2.11 FLOOR PLAN
A2.31 FINISH PLAN
A2.41 REFLECTED CEILING PLAN
A7.01 ACCESSIBILITY DETAILS
A7.10 PARTITION TYPES AND DETAILS
A7.20 CASEWORK DETAILS
A7.40 CEILING DETAILS
A8.10 DOOR SCHEDULE AND TYPES, DOOR HARDWARE

8- STRUCTURAL
S1.00 STRUCTURAL NOTES AND QUALITY ASSURANCE
S2.00 EQUIPMENT INSTALLATION PLANS

9- MECHANICAL
M0.01 GENERAL INFORMATION - MECHANICAL
M0.02 SPECIFICATIONS - MECHANICAL
M2.11 FLOOR PLAN - HVAC
M2.12 ROOF PLAN - HVAC
M3.11 FLOOR PLAN - HVAC PIPING
M6.01 CONTROLS DIAGRAMS - MECHANICAL
M7.01 DETAILS - MECHANICAL
M7.02 DETAILS - MECHANICAL
M8.01 SCHEDULES - MECHANICAL

10 - PLUMBING
P0.01 GENERAL INFORMATION - PLUMBING
P0.02 SPECIFICATIONS - PLUMBING
P2.11 FLOOR PLAN - PLUMBING
P3.11 FLOOR PLAN - MEDICAL GAS
P8.01 DETAILS & SCHEDULES - PLUMBING

11 - ELECTRICAL
E0.01 GENERAL INFORMATION - ELECTRICAL
E0.02 SPECIFICATIONS - ELECTRICAL
E0.03 COMCHECK - ELECTRICAL
E1.01 OVERALL PLAN - ELECTRICAL
E2.11 FLOOR PLAN - ELECTRICAL
E2.12 ROOF PLAN - ELECTRICAL
E3.11 FLOOR PLAN - LIGHTING
E4.11 FLOOR PLAN - SPECIAL SYSTEMS
E6.01 ONE-LINE DIAGRAMS - ELECTRICAL
E7.01 DETAILS - ELECTRICAL
E8.01 SCHEDULES - ELECTRICAL

13 - TECHNOLOGY
T0.01 GENERAL INFORMATION - TECHNOLOGY
T0.02 GENERAL INFORMATION - TECHNOLOGY
T0.03 GENERAL INFORMATION - TECHNOLOGY
T1.01 OVERALL PLAN - TECHNOLOGY
T2.11 FLOOR PLAN - COMMUNICATIONS
T7.01 DETAILS - TECHNOLOGY
TD2.11 DEMO FLOOR PLAN - COMMUNICATIONS

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

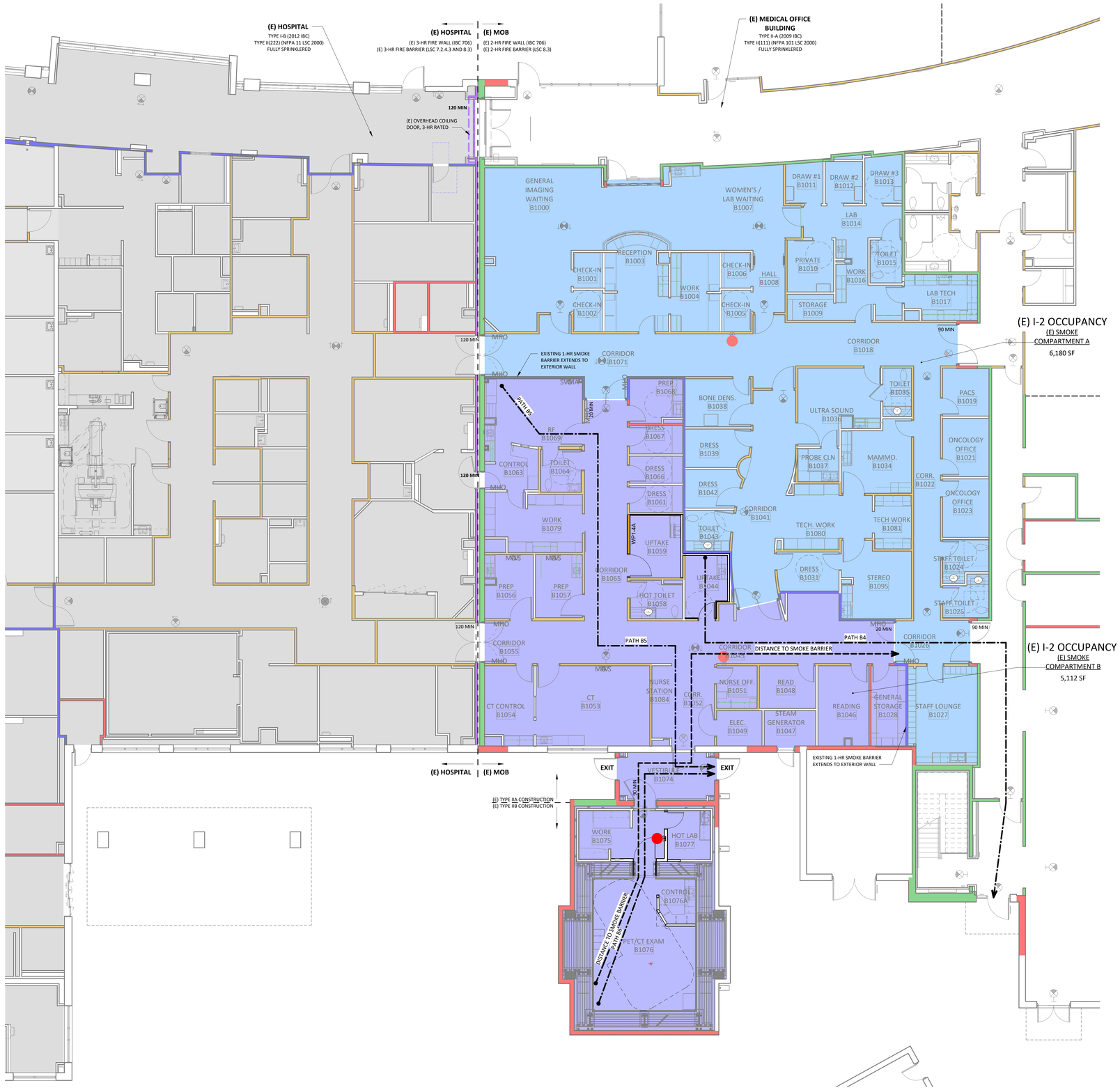
SHEET TITLE

COVER SHEET

SHEET NUMBER

G0.01

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1 LIFE SAFETY PLAN - FLOOR 1
G2.11 1/8" = 1'-0"

LIFE SAFETY GENERAL NOTES

1. SEE THE COVER SHEET FOR CODE DATA & DEFERRED SUBMITTALS.
2. ALL EGRESS ROUTES ARE ACCESSIBLE EGRESS ROUTES.
3. EXISTING PARTITIONS ARE SHOWN HALFTONE ON PLAN.

SYMBOLS

- FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
- EXIT LIGHT FIXTURE (ARROW INDICATES DIRECTION OF EXIT)
- MAGNETIC HOLD OPEN
- DOOR RATING

PATH OF TRAVEL

- EGRESS PATH
- SMOKE COMPARTMENT TRAVEL PATH

PARTITION LEGEND

GRAPHIC	DESCRIPTION
	3 HOUR FIRE BARRIER / SHAFTWALL / PARTITIONS
	2 HOUR FIRE BARRIER / SHAFTWALL / PARTITIONS
	1 HOUR SMOKE BARRIER
	1 HOUR FIRE BARRIER / SHAFTWALL / PARTITIONS
	SMOKE PARTITION

CODE SUMMARY

CODE SUMMARY	IBC 2024		NFPA 101 2012		
OCCUPANCY TYPE:	I-2 INSTITUTIONAL OCCUPANCY		NEW HEALTHCARE (CH. 18) EXISTING HEALTHCARE (CH. 19)		
CONSTRUCTION TYPE:	TYPE IIA & IIB, FULLY SPRINKLERED		TYPE II(111) & 11(000), FULLY SPRINKLERED		
OCCUPANCY SEPARATIONS:	2 HR		2 HR		
FIRE RATED CONSTRUCTION REQUIREMENTS	TYPE IIA	TYPE IIB		III(111)	II(000)
PRIMARY STRUCTURAL FRAME	1 HR	0 HR	EXTERIOR BEARING WALLS	1 HR	0 HR
EXTERIOR BEARING WALLS	1 HR	0 HR	INTERIOR BEARING WALLS	1 HR	0 HR
INTERIOR BEARING WALLS	1 HR	0 HR	COLUMNS	1 HR	0 HR
EXTERIOR NON-BEARING WALLS	0 HR*	0 HR	BEAMS, GIRDERS, TRUSSES, ARCHES	1 HR	0 HR
INTERIOR NON-BEARING WALLS	1 HR	0 HR	FLOOR/CEILING ASSEMBLIES	1 HR	0 HR
FLOOR CONSTRUCTION	1 HR	0 HR	ROOF/CEILING ASSEMBLIES	1 HR	0 HR
ROOF CONSTRUCTION	1 HR	0 HR	INTERIOR NON-BEARING WALLS	0 HR	0 HR
SPECIAL CONSTRUCTION	*2 HR RATED FIRE WALL AT TYPE IIA AND TYPE II B CONSTRUCTION TYPE LINE PER SECTION 706		EXTERIOR NON-BEARING WALLS	0 HR	0 HR
SMOKE COMPARTMENTS:	TWO PROVIDED: 22,500 SF MAX		TWO PROVIDED: 22,500 SF MAX		
NUMBER OF EXITS:	MIN TWO EXITS PROVIDED		MIN TWO EXITS REQUIRED		
EXIT SEPARATION:	1/3 OVERALL DIAGONAL		1/3 OVERALL DIAGONAL		
COMMON PATH OF TRAVEL:	75 FT MAX		100 FT MAX		
EGRESS DISTANCE:	200 FT MAX		200 FT MAX		
DEAD-END CORRIDOR:	20 FT MAX		30 FT MAX		
EXIT CORRIDOR WIDTH:	44" MIN 96" AT BED TRAFFIC		44" MIN 96" AT BED TRAFFIC		
SMOKE COMPARTMENT TRAVEL:	200 FT MAX		200 FT MAX		
HAZARDOUS AREA/INCIDENTAL USE:	LAUNDRY OVER 100 SF, STORAGE OVER 100 SF, WASTE/LINEN ROOMS WITH CONTAINERS > 10 CF		LAUNDRY OVER 100 SF, STORAGE OVER 100 SF & WASTE/LINEN ROOMS WITH CONTAINERS > 64 GALLONS		
INTERIOR FINISHES:	CLASS B		CLASS A		
SUITES:	MAY BE USED		MAY BE USED		

EGRESS PATH

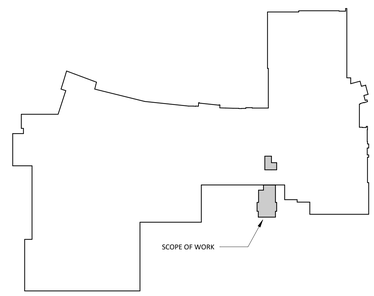
ROUTE	DISTANCE
PATH B4	119' - 10"
PATH B5	106' - 4"
PATH B6	57' - 4"

SMOKE COMPARTMENT TRAVEL

ROUTE	DISTANCE
DISTANCE TO SMOKE BARRIER	111' - 8"

COMMON PATH OF TRAVEL

ROUTE	DISTANCE



KEYPLAN

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE

LIFE SAFETY PLAN

SHEET NUMBER

G2.11

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2.2-3.5.8.4 CONSULTATION
A CONSULT AREA IS PROVIDED FOR CONSULTATIONS WITH PATIENTS OR REFERRING CLINICIANS

2.2-3.5.10.1 WAITING
WAITING ROOM OR AREA SEPARATE FROM UNRELATED TRAFFIC.

2.2-3.5.8.2 RECEPTION
A RECEPTION AREA WITH CONTROL DESK IS PROVIDED.

2.2-3.5.10.1 PATIENT TOILET

2.2-3.5.8.12; 2.1-2.8.12
SOILED HOLD
IS SEPARATE FROM CLEAN SUPPLY AND CONTAINS HAND-WASHING STATION AND SPACE FOR COVERED WASTE CONTAINERS & SOILED LINEN

2.2-3.5.8.14; 2.1-2.8.14
ENVIRONMENTAL SERVICES ROOM
IS IMMEDIATELY ACCESSIBLE TO IMAGING SUITE WITH SERVICE SINK, STORAGE & HAND SANITIZER

2.2-3.5.8.11; 2.1-2.8.11
CLEAN SUPPLY
IS READILY ACCESSIBLE TO IMAGING ROOMS AND SEPARATE FROM SOILED

2.2-3.5.8.8; 2.1-2.8.8.1
MEDICATION SAFETY ZONE
IS IMMEDIATELY ACCESSIBLE FROM PRE AND POST PATIENT CARE AREAS & PROVIDES LOCKED MED STORAGE.



2.2-3.5.9.2 STAFF TOILETS
IMMEDIATELY ACCESSIBLE TO THE IMAGING SUITE

2.2-3.5.9.1 STAFF LOUNGE
IMMEDIATELY ACCESSIBLE TO THE IMAGING SUITE AND LOCKERS ARE PROVIDED FOR SECURING STAFF BELONGINGS

2.2-3.5.8.18 READ ROOM
PROVIDED FOR READING OF MEDICAL IMAGES

2.2-3.5.7.3(7)C; 2.2-3.5.10.2(3)B
DEDICATED HOT TOILET
WITH HANDWASHING STATION IS ADJACENT TO UPTAKE/ COOL-DOWN ROOM

2.2-3.5.7.3(7) UPTAKE/ COOLDOWN
SHIELDED ROOM IS PROVIDED FOR PATIENT UPTAKE/ COOLDOWN

2.2-3.5.7.1(d) DOSE ADMINISTRATION
PERMITTED TO BE COMBINED WITH PATIENT UPTAKE/ COOLDOWN

2.2-3.5.10.3 PATIENT CHANGING RM
MIRROR & SEAT PROVIDED, PATIENT BELONGINGS REMAIN IN ROOM

2.2-3.5.8.15 PRE/POST PATIENT CARE STATION
DEDICATED TO THIS CLASS 1 IMAGING

2.2-3.5.8.3; 2.1-2.8.3 DOCUMENTATION
WORK SURFACE PROVIDED

2.2-3.5.8.13 EQUIP SUPPLY
CLEAN LINEN STORAGE

2.2-3.5.2.1 CLASS 1 IMAGING
THE ROOM IS DESIGNED FOR CLASS 1 PROCEDURES

2.2-3.5.2.2(b); 2.2-3.5.3.1; 2.2-3.5.7.3(3)
SPACE REQUIREMENTS
ROOM IS SIZED & CONFIGURED TO PROVIDE 3'-0" CLEARANCE ON ALL SIDES OF IMAGING DEVICE AND 5'-0" CLEARANCE ON PATIENT TRANSFER SIDE OF PATIENT TABLE

2.2-3.5.2.6 MULTI-MODALITY ROOM
MEETS REQUIREMENTS FOR BOTH CT IMAGING FACILITY & PET IMAGING FACILITY

TABLE 2.1-1 ELECTRICAL RECEPTACLES
8 OUTLETS TOTAL, 4 CONVENIENT TO LATERAL SIDE OF IMAGING GANTRY
TABLE 2.1-2 CALL SYSTEMS
EMERGENCY CALL STATION
TABLE 2.1-3 MEDICAL GAS
(1) OXYGEN, (1) VACUUM

2.2-3.5.1.2 RADIATION PROTECTION
RADIATION PROTECTION IS REQUIRED. DESIGN DONE BY CERTIFIED RADIATION PHYSICIST

2.2-3.5.2.5; 2.2-3.5.7.3(5) SYSTEM COMPONENT ROOM
ALL ASSOCIATED PET EQUIPMENT IS LOCATED WITHIN THE SCAN ROOM

2.2-3.5.8.21 HOT LAB
A SHIELDED AND SECURABLE ROOM WITH STORAGE FOR SOURCE, DOSE & SYRINGE NEEDLES. EMERGENCY EYEWASH PROVIDED

2.2-3.5.8.12 (3) HOT SOILED HOLD
DEDICATED DECAY CONTAINERS PROVIDED FOR HOT WASTE

2.2-3.5.2.3(1); 2.2-3.5.3.1(2); 2.2-3.5.7.3(3)(b)
HANDWASH STATION
A HANDWASHING STATION IS PROVIDED WITHIN THE CLASS 1 IMAGING ROOM

2.2-3.5.8.16 CONTRAST PREP
SINK, COUNTER, SECURE STORAGE PROVIDED

2.2-3.5.1.2; 2.2-3.5.3.2; 2.2-3.5.7.3(4) CONTROL ROOM
A SHIELDED CONTROL ROOM WITH SHIELDED VIEW WINDOW PROVIDES A FULL VIEW OF BED, GANTRY & PATIENT DURING IMAGING ACTIVITIES

2.2-3.5.7.3(2) PET SUITE CONFIGURATION
PET SUITE IS DESIGNED TO RESTRICT INCIDENTAL EXPOSURE WITH SHIELDING PER CERTIFIED PHYSICIST.

FGI KEY

- PROJECT BOUNDARY
- PROJECT SCOPE
- OUTSIDE OF IMAGING DEPARTMENT

KEYPLAN

1 FLOOR PLAN - FGI
G3.01 1/8" = 1'-0"

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

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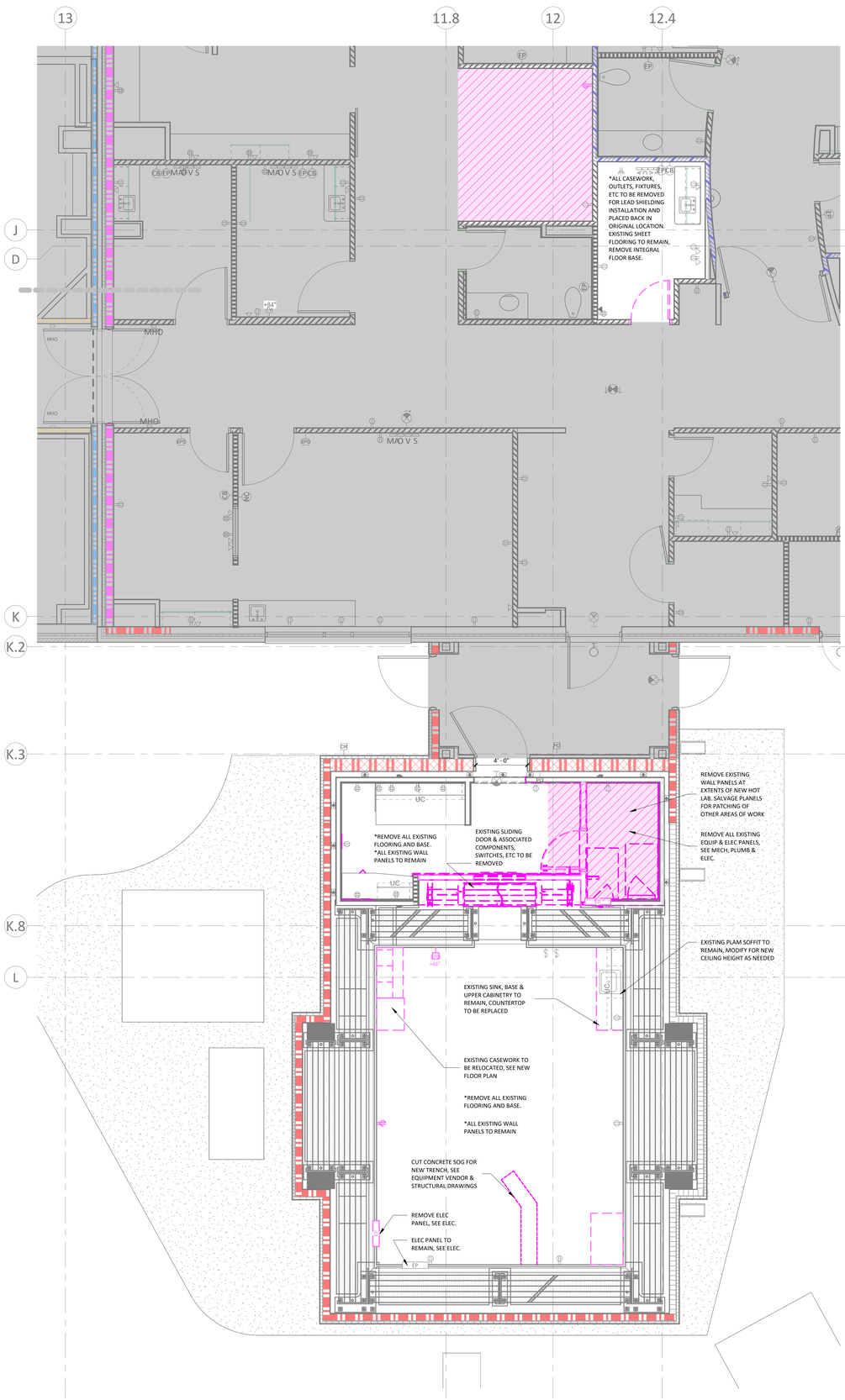
SHEET TITLE
FLOOR PLAN - FGI

SHEET NUMBER
G3.01

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1 DEMO PLAN - FLOOR 1

AD2.11 1/4" = 1'-0"



2 DEMO REFLECTED CEILING PLAN - FLOOR 1

AD2.11 1/4" = 1'-0"

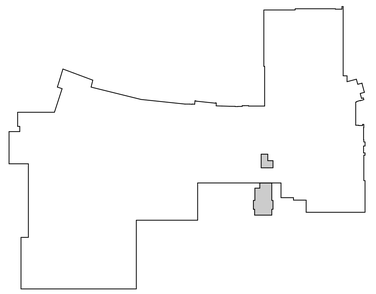
DEMO GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND UNDERSTAND THE EXTENT OF THE REMODEL & ADDITION WORK REQUIRED PRIOR TO DEMOLITION. NOT ALL EXISTING CONDITIONS HAVE BEEN DOCUMENTED IN THEIR ENTIRETY AND NEW WORK WILL NEED TO BE COORDINATED ACCORDINGLY. AREAS SHADED AS 'EXISTING TO REMAIN' ARE FOR VISUAL CLARIFICATION ONLY AND ARE NOT A TRUE IDENTIFIER OF THE PHYSICAL BOUNDARY OF THE SCOPE OF WORK. IT IS ANTICIPATED THAT THE CONTRACTOR WILL BE WORKING ABOVE, BELOW AND OUTSIDE OF THIS REFERENCE AS NEEDED AND IS RESPONSIBLE FOR UNDERSTANDING THE TRUE EXTENT OF THE SCOPE OF WORK TO SATISFY THE CONSTRUCTION OF THE NEW WORK COMPLETELY.
2. MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.
3. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE DEMOLISHED.
4. PROTECT WALL, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN OR THAT ARE EXPOSED DURING DEMOLITION.
5. ITEMS TO BE REMOVED AND REINSTALLED ARE TO BE CLEANED AND REPAIRED AS NEEDED AND PROTECTED FROM DAMAGE PRIOR TO REINSTALLATION.
6. SAWCUT WALLS TO BE DEMOLISHED WHERE THEY CONNECT TO WALLS THAT REMAIN, TYPICAL. PATCH AND REPAIR WALLS ADJOINING AND AFFECTED BY DEMOLITION, FOR A SEAMLESS TIE-IN.
7. PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION INCLUDING MECHANICAL, AND ELECTRICAL DEMOLITION.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK THE ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH THE INSTALLATION OF ANY MECHANICAL, PLUMBING OR ELECTRICAL WORK. CONTRACTOR NEEDS TO COORDINATE WITH OTHER TRADES AND ANY DISCREPANCIES BETWEEN DESIGN ELEMENTS FOR SCOPE OF WORK NEEDS TO BE REPORTED TO THE ARCHITECT.
9. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE CONTINUING.
10. SEE OTHER DRAWINGS FOR ADDITIONAL DEMOLITION WORK NOT SHOWN HERE.
11. COMPLY WITH LOCAL REQUIREMENTS FOR ALLOWABLE HOURS OF WORK AND WASTE DISPOSAL
12. SALVAGE THE FOLLOWING AT THE DISCRETION OF THE BUILDING OWNER:
    - DOORS & DOOR HARDWARE
    - LIGHT FIXTURES
    - PREFAB WALL PANELS
    - CASEWORK

DEMO LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO BE REMOVED
- EXISTING ITEM TO BE REMOVED, INCLUDING CASEWORK, CEILINGS, FLOORING, EQUIPMENT, WINDOW, OR FIXTURE
- REMOVE ALL EXISTING FLOORING, BASE, CASEWORK, ACCESSORIES, AND FIXTURES
- REMOVE ALL CEILINGS, LIGHT FIXTURES, MECHANICAL GRILLES, AND CEILING MOUNTED ITEMS
- AREA NOT IN PROJECT SCOPE

KEYPLAN



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PROJECT 257406.00

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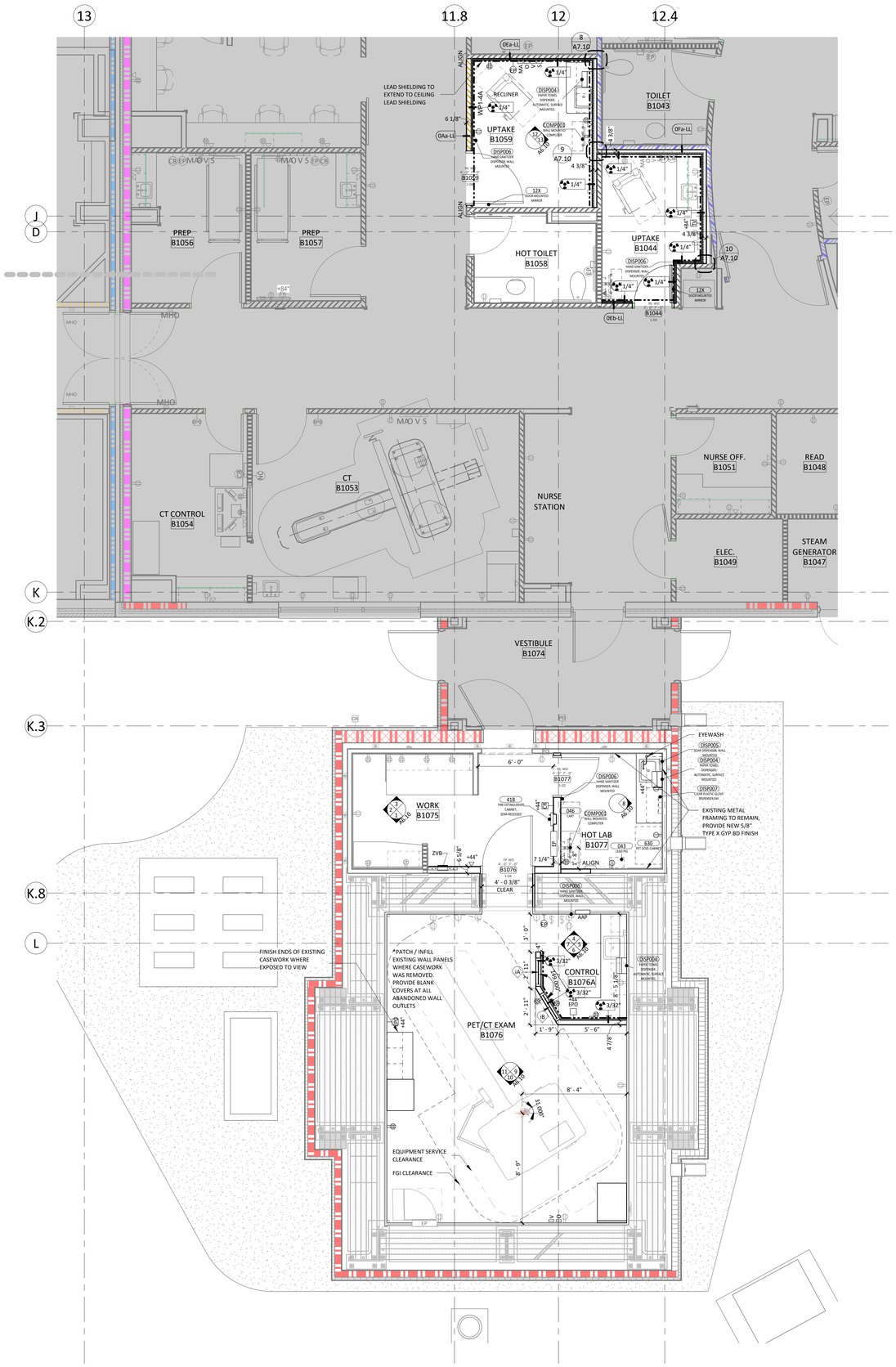
DEMO FLOOR PLAN & RCP

SHEET NUMBER

AD2.11

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1 FLOOR PLAN - FLOOR 1 - AREA A
A2.11 1/4" = 1'-0"

POWER OUTLET LEGEND

SYMBOLS

- DUPLEX OUTLET
- DUPLEX FLOOR OUTLET
- QUAD OUTLET
- QUAD FLOOR OUTLET

DESIGNATIONS

- +##" INDICATES HEIGHT IN INCHES AFF TO OUTLET CENTERLINE. DEFAULT HEIGHT = 18" AFF TO CENTERLINE UNLESS TAGGED OTHERWISE. TYPICAL FOR ALL OUTLETS

DATA OUTLET LEGEND

SYMBOLS

- DATA OUTLET
- FLOOR DATA OUTLET

SPECIAL PURPOSE OUTLET LEGEND

SYMBOLS

- SPECIAL PURPOSE OUTLET
- DOMED SECURITY CAM

DESIGNATIONS

R	RECESSED OUTLET (TYPE PER OTHER DESIGNATION)
TV	TV OUTLET
CR	CARD READER
DO	DOOR OPENER BUTTON
DR	DOOR RELEASE BUTTON
KP	KEYPAD
I	INTERCOM
SC	SECURITY CAMERA

MISCELLANEOUS ELECTRICAL LEGEND

- MHO — MAGNETIC HOLD OPEN
- LIGHT SWITCH
- FIRE ALARM STROBE
- P/D — POWER POLE - 'P' = POWER, 'D' = DATA, 'P/D' = POWER & DATA
- EP — ELECTRICAL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- GP — GENERATOR ALARM PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL

NURSE CALL LEGEND

SYMBOLS

DESIGNATIONS

EP	EMERGENCY PULL
CB	CODE BLUE
CC	PATIENT CALL CORD
AP	ALARM PANEL

DOME LIGHT

- WALL MOUNTED, PLAN VIEW
- WALL MOUNTED, ELEVATION
- CEILING MOUNTED, PLAN VIEW

MEDICAL GAS LEGEND

- MA — MEDICAL AIR
- S — SLIDE
- O — OXYGEN
- V — VACUUM
- ZONE VALVE BOX
- AAP-1 — MED GAS AREA ALARM PANEL
- MAP-1 — MED GAS ALARM PANEL

SHIELDED PARTITIONS LEGEND

- LEAD LINED PARTITION. LINE INDICATES SIDE OF LEAD SHIELDING (GRAPHIC OR TAG INDICATES PARTITION TYPE)
- L — LEAD RATING (#/SF) OR (X/XX")

FLOOR PLAN GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF INTERIOR GYPSUM BOARD, TILE BACKER BOARD, FACE OF EXTERIOR WALL MATERIALS, STRUCTURAL GRIDS AND CENTERLINES WHERE INDICATED.
2. ALL GYPSUM WALLBOARD TO BE 5/8" UNO TYPE 'X' EXCEPT AT THE FOLLOWING LOCATIONS:
   A. AT RESTROOMS WITHOUT A SHOWER (TCNA COM2 AREAS), PROVIDE 5/8" UNO MOISTURE AND MOLD RESISTANT GYPSUM BOARD COMPLYING WITH ASTM C1396 FOR WALLS AND BEHIND TILE.
   B. AT WET AREAS INCLUDING BUT NOT LIMITED TO SHOWERS, STERILE PROCESSING ROOMS, JANITOR CLOSETS, SAUNAS, AND SWIMMING POOLS (TCNA COM3/4 AREAS), PROVIDE:
      1. AT TILE AND WALL PROTECTION LOCATIONS: PROVIDE 5/8" UNO COATED GLASS-MAT FACED WATER-RESISTANT GYPSUM WALLBOARD COMPLYING WITH ASTM C1178 OR 5/8" UNO CEMENT BACKER BOARD COMPLYING WITH ASTM C1325
      2. AT PAINTED GYPSUM BOARD LOCATIONS (INCLUDING CEILINGS): PROVIDE 5/8" UNO TYPE 'X' MOISTURE AND MOLD RESISTANT GYPSUM BOARD COMPLYING WITH ASTM C1396
3. PROVIDE RATED ENCLOSURES OR PUTTY PACKS AROUND ALL OUTLETS, BOXES, CABINETS, PIPING, DUCTWORK, ETC., THAT ARE RECESSED IN WALLS. ENCLOSE TO PROVIDE SAME RATING AS THE WALL WHERE IT IS LOCATED. SEE DETAILS ON THE A7 SHEETS.
4. DOORS SHALL BE LOCATED 4" FROM ADJACENT PERPENDICULAR WALL TO THE INSIDE EDGE OF THE DOOR FRAME, UNO. SEE DOOR DETAILS ON THE A8 SHEETS.
5. J-BOXES SHOWN BACK-TO-BACK MAY BE ADJUSTED TO OFFSET THE BOXES WITH APPROVAL FROM THE ARCHITECT. SEE DETAILS ON THE A7 SHEETS.
6. HIGHEST PRIORITY PARTITIONS ARE LISTED FIRST IN THE PARTITION LEGENDS. SUBSEQUENT PARTITIONS DECREASE IN PRIORITY. HIGHER PRIORITY WALLS TAKE PRECEDENCE, SEE WALL PRIORITY DETAILS ON A7 SHEETS.
7. EXISTING PARTITIONS APPEAR AS "HALF-TONE" ON PLANS.
8. FOR LEVEL 5 DRYWALL FINISH LOCATIONS REFER TO FINISH LEGEND AND FINISH PLANS.

PARTITION GRAPHIC LEGEND

1. SEE PARTITION TYPES, SHEET A7.10

GRAPHIC	DESCRIPTION	TYPE
	2 HOUR SMOKE BARRIER	2Ab
	2 HOUR FIRE BARRIER / SHAFT	2Sa
	2 HOUR FIRE BARRIER	2Aa
	1 HOUR SMOKE BARRIER	1Ab
	1 HOUR FIRE BARRIER / SHAFT	1Sa
	1 HOUR FIRE BARRIER	1Aa
	1 HOUR FIRE PARTITION	1Ac
	SMOKE PARTITION	0Aa
	SOUND PARTITION	0Ab
	SOUND PARTITION	0Ac
	SOUND PARTITION	0Ad
	SOUND PARTITION	0Ae
	SOUND PARTITION	0Af
	SOUND PARTITION	0Ag
	BRACED SOUND PARTITION	0Bb
	BRACED SOUND PARTITION	0Bd
	BRACED PARTITION	0Ba
	FURRING PARTITION	0Fa

ACCESSORY AND EQUIPMENT SCHEDULE

RESPONSIBILITY LEGEND: OF = OWNER FURNISHED, OI = OWNER INSTALLED, CF = CONTRACTOR FURNISHED, CI = CONTRACTOR INSTALLED, VF = VENDOR FURNISHED, VI = VENDOR INSTALLED

TAG	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY	MOUNTING HEIGHT A.F.F.	BACKING DETAIL SEE A7 SHEETS	COMMENTS
12X	DOOR MOUNTED MIRROR			CF/CI	8" TO BOTTOM OF REFLECTIVE SURFACE	NONE	
41B	FIRE EXTINGUISHER CABINET, SEMI-RECESSED	LARSENS	2409-R3	CF/CI	48" TO TOP OF CABINET		
043	LEAD PIG			OF/OI			
046	CART			OF/OI			
630	PET DOSE CABINET	CAPINTEC	LEAD LINED PET UNIT DOSE CABINET	OF/OI			
COMP001	WALL MOUNTED COMPUTER	ERGOTRON	STYLEVIEW SIT-STAND	OF/OI			
DISP004	PAPER TOWEL DISPENSER, AUTOMATIC, SURFACE MOUNTED,	GEORGIA PACIFIC	ENMOTION 59462		SEE DETAILS ON A7.01	BACKING DETAIL A	
DISP005	SOAP DISPENSER, WALL MOUNTED	MEDLINE	AUTODISP W	OF/OI			
DISP006	HAND SANITIZER DISPENSER, WALL MOUNTED	MEDLINE	AUTODISPW	OF/OI			
DISP007	CLEAR PLASTIC GLOVE DISPENSER-SM	MEDLINE	MDS1930968	OF/OI	SEE DETAILS ON A7.01	NONE	PROVIDE BACKING PER DETAIL 'A' 3/A7.20.

KEYPLAN

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BOULDER, COLORADO 80302
303.499.7795

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE

FLOOR PLAN

SHEET NUMBER

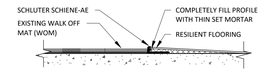
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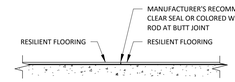
1 FINISH PLAN - FLOOR 1 PHASE 1
A2.31 1/4" = 1'-0"

NOTES:
1. FLOORING TRANSITION TO OCCUR AT CENTER OF DOOR LEAF, U.N.O.
2. FLOAT OR USE LEVELER STRIP AS NECESSARY TO AVOID ABRUPT CHANGES IN HEIGHT AT TRANSITIONS

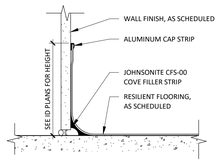


2 WOM [EXIST.] TO RESILIENT - SCHIENE
A2.31 3" = 1'-0"

NOTES:
1. APPLY FLOOR POLISH TO ALL SEALED BUTT JOINTS AS REQUIRED BY MANUFACTURER
2. FLOAT FLOORING AS NECESSARY TO AVOID ABRUPT CHANGES IN HEIGHT AT TRANSITIONS
3. FLOORING TRANSITIONS TO OCCUR AT CENTER OF DOOR LEAF, U.N.O.



3 RESILIENT TO RESILIENT
A2.31 3" = 1'-0"



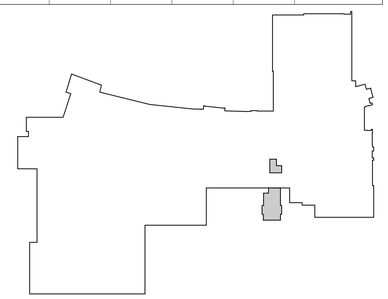
4 INT. COVE
A2.31 3" = 1'-0"

MATERIAL LIST

MARK	DESCRIPTION	MANUFACTURER	MODEL/STYLE	COLOR/FINISH	SIZE	COMMENTS	ENVIRONMENTAL DOCUMENTATION	HMI RATING	FIRE CLASS	ATTIC STOCK	CONTACT	REVISION
BASE												
IC-6	6" INTEGRAL COVE BASE	SEE FLOORING FOR MATERIAL INFORMATION AND INTEGRAL COVE BASE DETAIL.	SEE FLOORING FOR MATERIAL INFORMATION AND INTEGRAL COVE BASE DETAIL.	SEE FLOORING FOR MATERIAL INFORMATION AND INTEGRAL COVE BASE DETAIL.	SEE FLOORING FOR MATERIAL INFORMATION AND INTEGRAL COVE BASE DETAIL.	HEAT WELD SEAMS.			ASTM E 648 CLASS 1 (> 0.45 W/CM2)			
RB-1	RESILIENT BASE	ROPPE	4" COVED TOE RUBBER BASE	639 BEIGEWOOD	4" H				ASTM E 648 CLASS 1 (> 0.45 W/CM2) ASTM E 84 CLASS B < 450 SMOKE			
CASEWORK												
HPL-1	HIGH PRESSURE LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	7943 COLOMBIAN WALNUT		VERTICAL CASEWORK LAMINATE. PROVIDE MATCHING COLOR AND PATTERN 1MM PVC EDGE BANDING.			ASTM E84 - CLASS 1			
HPL-2	HIGH PRESSURE LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	KENSINGTON MAPLE 10776-60		DOORS						
SS-1	SOLID SURFACE	STARON	TEMPEST COLLECTION	FC155 CARAWAY	1/2" THICKNESS							
FLOORING												
RTF-1	RESILIENT TILE FLOORING	TARKETT	EVENT+ WOOD	EUROPEAN CHERRY 3307	6" X 36"	INSTALLATION METHOD: ASHLAR U.N.O.						
SVF-1	RESILIENT SHEET FLOORING	MANNINGTON	BIOSPEC MD	GOLDEN OAK 15363	6' - 6" ROLLED SHEET GOOD	HEAT WELD SEAMS. WELD ROD COLOR: TBD			ASTM E 648 CLASS 1 (> 0.45 W/CM2) ASTM E 662 CLASS A < 450			
OTHER												
DF-1	DECORATIVE FILM	3-M	DI-NOC	PS-075	48", 48.031" X 27.34', 54.681'							
DF-2	DECORATIVE FILM	3-M	DI-NOC	PS-MT3866	48", 48.031" X 27.34', 54.681'							
WALL												
P-1	PAINT -GENERAL	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX	SW7526 MAISON BLANCHE		EGGSHELL FINISH			N/A			
P-1B	PAINT -GENERAL	SHERWIN WILLIAMS	PRO INDUSTRIAL PRE CATALYZED WB EPOXY	SW7526 MAISON BLANCHE		EGGSHELL FINISH						
P-2	PAINT - DOOR FRAME	SHERWIN WILLIAMS	PRO INDUSTRIAL ACRYLIC ENAMEL	SW7529 SAND BEACH		ACRYLIC ENAMEL, SEMI-GLOSS FINISH			N/A			
P-3	PAINT - CEILINGS	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX	SW7004 SNOWBOUND		EGGSHELL FINISH			N/A			
P-4	PAINT - ACCENT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX	SW6185 ESCAPE GRAY		EGGSHELL FINISH						
WC-1	WALLCOVERING - TYPE II VINYL	LEVEL BY NATIONAL WALLCOVERING	SMOKE STONE	SLATE (L14-0903)	9'-0" H X 18'-0" W	WALLCOVERING DIMENSIONS TO MATCH WALL ONE						

WALL PROTECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL/STYLE	COLOR/FINISH	SIZE	MOUNTING HEIGHT	COMMENTS	ENVIRONMENTAL DOCUMENTATION	HMI RATING	VOC LIMITS	FIRE CLASS	ATTIC STOCK	REVISION
WP1-4A	RIGID SHEET WALL PROTECTION - FULL HEIGHT	INPRO CORPORATION	PALLADIUM RIGID VINYL SHEET. G2 BIOBLEND	COLOR : TBD FINISH: SMOOTH FINISH : PVC FREE ACROVYN IN SUEDE TEXTURE	HEIGHT: 4'0 X 8'-0" X .060" THICK	4' - 4"	PROVIDE TOP/BOTTOM AND INSIDE CORNER TRIM PIECES FOR ALL WALL PROTECTION. PROVIDE VERTICAL DIVIDER BAR, ALL TRIM PIECES TO COLOR MATCH TO CORRESPONDING WALL PROTECTION STANDARD SHEET SIZE 4X8 AND 4X10. ALTERNATE TO COLOR TRIM PIECES IS ALUMINUM. FOR SPECIFIC PROJECTS OR LOCATIONS YOU CAN CHOOSE TO USE NO TRIMS AND UTILIZE A COLOR MATCH OR CLEAR SEALANT AT ALL JOINT CONDITIONS. SOME PROJECTS WILL UTILIZE TOP CAP BUT WILL USE CLEAR SEALANT AT ALL VERTICAL SEAMS.						



KEYPLAN

GENERAL FINISH NOTES

CEILING FINISH:
1. CEILING FINISHES ARE LOCATED ON REFLECTED CEILING PLANS.

WALL FINISH:
1. PAINT GYP BOARD WALLS P-1, TYP, UNO. SEE SPECIFICATIONS AND MATERIAL SCHEDULE FOR PAINT SHEEN.
2. PAINT CONTROL JOINTS TO MATCH THE WALL WHERE A WALL IS SCHEDULED TO BE PAINTED.

WALL BASE:
1. GENERAL BASE TO BE RB-1, UNO.
2. WHERE INTERIOR FINISH TAG INDICATES "INTEGRAL" BASE IC-6, REFER TO DETAILS SHEET FOR INTEGRALLY FLASH-COVED BASE DETAIL.
3. BASE TO BE INSTALLED AT ALL CASEWORK TOE KICKS AND EXPOSED ENDS, UNO.

FLOOR FINISH:
1. ALL FLOORING FINISHES TO TERMINATE AT CENTER OF DOOR, UNO. REFER TO TYPICAL FLOORING TRANSITION DETAILS ON INTERIOR DETAIL SHEETS.
2. ALL SHEET GOOD FLOORING SEAMS TO BE HEAT WELDED, UNO. MINIMIZE HEAT WELD SEAMS WHERE POSSIBLE.
3. ALL FLOORING TRANSITIONS ARE REQUIRED TO MEET ADA GUIDELINES WITH ¼" MAX. HEIGHT DIFFERENCE.

CASEWORK:
1. FOR CASEWORK FINISH INFORMATION REFER TO ELEVATION SHEETS.
2. ALL FINISHES TO CONTINUE BEHIND AND UNDERNEATH ALL EQUIPMENT, ACCESSORIES, AND MOVEABLE CASEWORK.

DOORS/WINDOWS:
1. DOOR FRAME PAINT TO BE P2, SEMIGLOSS ACRYLIC ENAMEL, UNO. REFER TO DOOR LEGEND ON A8 SHEETS FOR DOOR FINISHES.

OTHER:
1. VERIFY FIELD CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH DRAWINGS PRIOR TO STARTING WORK.
2. REFER TO SPECIFICATIONS FOR LEVEL OF GYPSUM BOARD FINISH. LEVEL 5 FINISH LOCATIONS IDENTIFIED ON FINISH PLANS.
3. [ON PHASED PROJECT: TO PREVENT VARIANCES IN DYE LOT, THE FULL AMOUNT OF PROJECT FINISH MATERIALS NEED TO BE PURCHASED AT ONE TIME.]

WALL PROTECTION

WP1-4A
- TYPE
- MOUNTING HEIGHT
- COLOR

TYPES:
BG= BUMPER GUARD
CG = CORNER GUARD
CR = CHAIR RAIL / CRASHRAIL
CRV = VERTICAL CRASHRAIL
EG = END GUARD
FRP = FIBERGLASS REINFORCED PANEL
FWP = FLEXIBLE SHEET WALL PROTECTION
HR = HAND RAIL
RR = RUB RAIL
WP= SHEET WALL PROTECTION
WPS = WALL PROTECTION SYSTEM

HEIGHT, INSTALLED AT TOP OF BASE (U.N.O.)
0 = FULL HEIGHT
3 = 3'0" AFF
4 = 4'0" AFF

WALL PROTECTION NOTES

1. PREP WALL SURFACE ACCORDING TO MANUFACTURER RECOMMENDATIONS.
2. PROVIDE COLOR MATCHED SEALANT AT TOP OF ALL RIGID SHEET WALL PROTECTION.
3. PROVIDE BOTTOM AND INSIDE CORNER TRIM PIECES FOR ALL WALL PROTECTION. VERTICAL SEAMS TO HAVE A VERTICAL TRIM PIECE. COLOR MATCH TO CORRESPONDING WALL PROTECTION.
4. SEE INTERIOR BASE DETAILS ON SHEET A7.30 FOR MOUNTING WALL PROTECTION ABOVE BASE.

FINISH PLAN SYMBOL LEGEND

SYMBOL	DESCRIPTION
ROOM NAME 101	
WALL / BASE / FLOOR	GENERAL WALL FINISH / BASE FINISH / FLOOR FINISH
X	ACCENT WALL FINISH / EXTENTS OF ACCENT FINISH
X X	FLOORING TRANSITION SYMBOL
	INDICATES GRAIN/PATTERN INSTALLATION DIRECTION
X	WALL PROTECTION - SEE WALL PROTECTION SCHEDULE
S	LEVEL 5 FINISH

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

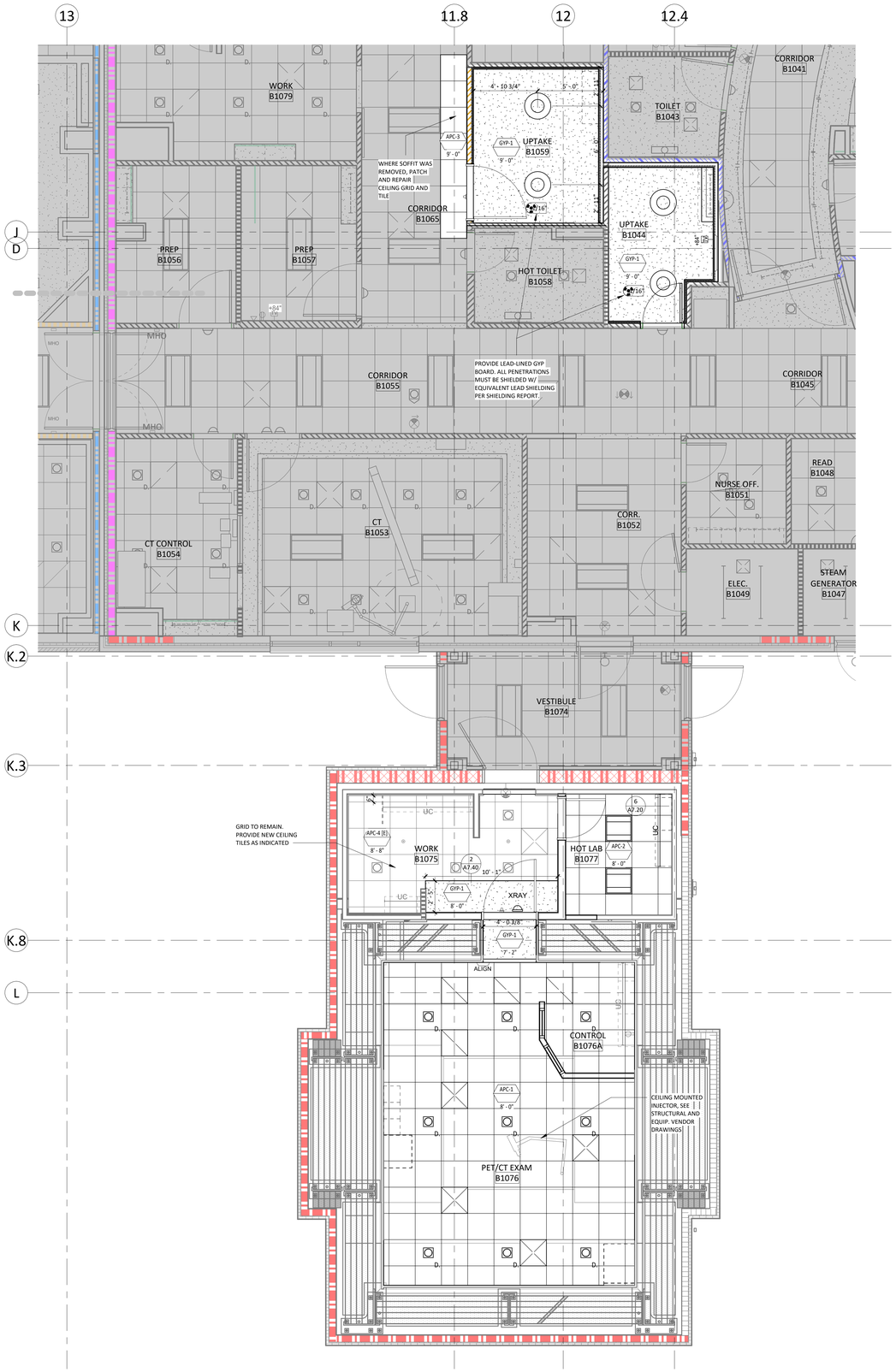
SHEET TITLE

FINISH PLAN

SHEET NUMBER

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1 REFLECTED CEILING PLAN
A2.41 1/4" = 1'-0"

CEILING TYPES

MARK	DESCRIPTION	MANUFACTURER	MODEL/STYLE	COLOR/FINISH	SIZE	COMMENTS	ENVIRONMENTAL DOCUMENTATION	HMI RATING	FIRE CLASS	ATTIC STOCK	REVISION
APC-1	2'x2' ACOUSTIC PANEL CEILING	ARMSTRONG	1941 ULTIMA HIGH-NRC, BEVELED TEGULAR EDGE. GRID: 15/16" PRELUDE XL EXPOSED T-GRID	WHITE	24" X 24" X 7/8"	MATCH EXISTING	LBC REDLIST FREE, HPD, EPD, CDPH	PP	CLASS A		
APC-2	2'x2' ACOUSTIC PANEL CEILING	ARMSTRONG	868 CLEAN ROOM VL, SQUARE LAY IN. GRID: 15/16" EXPOSED T-GRID	WHITE	24" X 24" X 5/8"	MATCH EXISTING	LBC REDLIST FREE, HPD, EPD, CDPH	PP	CLASS A		
APC-3	ACOUSTIC PANEL CEILING	ARMSTRONG	1772 DUNE, 24" X 24" X 5/8", SQUARE LAY-IN. GRID: PRELUDE XL 15/16" EXPOSED T-GRID			MATCH EXISTING					
APC-4	2'x2' ACOUSTIC PANEL CEILING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING		MATCH EXISTING					
GYP-1	GYP. BOARD CEILING					SEE MATERIALS LIST FOR PAINT INFORMATION.					

CEILING PLAN GENERAL NOTES

CEILING FINISH:
1. GENERAL CEILING PAINT SHALL BE P-3, UNLESS NOTED OTHERWISE.
2. ALL SIDES OF GYP. BOARD SOFFITS ABOVE UPPER CABINETRY SHALL BE PAINTED TO MATCH ADJACENT WALL FINISH, UNLESS NOTED OTHERWISE.
3. REFER TO MATERIALS LIST ON A2 SHEETS FOR PAINT AND WALLCOVERING INFORMATION.
4. EDGES OF CUT CEILING TILES ARE TO BE PAINTED WITH CEILING MANUFACTURER'S MATCHING TOUCH UP PAINT.

CEILING GRID:
1. LOCATE FIXTURE IN RELATION TO CEILING GRID AS SHOWN ON PLAN. IF ACTUAL CONDITIONS CONFLICT WITH PLAN, CONTACT ARCHITECT PRIOR TO INSTALLATION.
2. SUSPENDED CEILING SYSTEMS TO COMPLY WITH APPLICABLE PROJECT CODES.
3. ACT BRACING TO BE ANGLED/ATTACHED AWAY FROM OPEN STRUCTURE. SEE TYPICAL DETAILS.

MEP COORDINATION:
1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHTING, REGISTER, GRILLES, AND DIFFUSER LEGENDS.
2. REFERENCE LIGHTING & ELECTRICAL DRAWINGS AND CUTSHEETS FOR MOUNTING HEIGHTS, DIMENSIONS, AND ADDITIONAL INFORMATION NOT SHOWN ON DRAWINGS. NOTIFY ARCHITECT OF CONFLICTS IN MOUNTING LIGHT FIXTURES.
3. COORDINATE AV ITEM LOCATIONS SUCH AS SPEAKERS, CAMERA, MICROPHONES WITH ACOUSTIC CEILING TILE W/ ARCHITECT & OWNER PRIOR TO INSTALLATION.
4. REFER TO ENGINEERING DRAWINGS FOR LIFE SAFETY DEVICES REQUIRED BY CODE AND EMERGENCY LIGHT FIXTURES. COORDINATE LOCATION OF DEVICES W/ ARCHITECTURAL DOCUMENTS.

OTHER:
1. DIMENSIONS ARE TO FACE OF INTERIOR GYPSUM BOARD, TILE BACKER BOARD, STRUCTURAL GRIDS, AND CENTERLINES WHERE INDICATED.

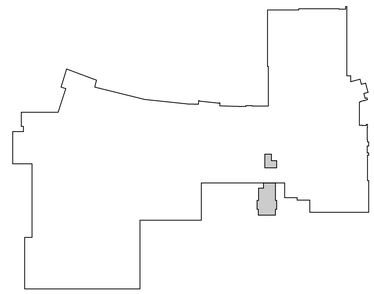
CEILING GRAPHICS LEGEND

- ACT # / PH / 9' - 0": CEILING TYPE, SEE CEILING SCHEDULE; FINISH TYPE, WHERE APPLICABLE; CEILING HEIGHT
- ACOUSTIC CEILING TILE- 2x2 OR 2x4 AS INDICATED.
- GYP. BD. CEILING
- AREA NOT IN PROJECT SCOPE
- SPEAKER
- CEILING ACCESS PANEL
- SUPPLY DIFFUSER - SEE MECHANICAL
- RETURN GRILLE - SEE MECHANICAL
- EXHAUST - SEE MECHANICAL

LIGHTING FIXTURE LEGEND

DOWNLIGHT FIXTURES	**MOUNTING**
	SURFACE MOUNT
	RECESSED MOUNT
	TYPE / OPTIONS
	WALL WASHER
	DECORATIVE TRIM
	RECESSED INDIRECT FIXTURE - SIZE AS INDICATED
	RECESSED PRISMATIC LENS FIXTURE - SIZE AS INDICATED
UC	UNDERCABINET LIGHT
	WALL-MOUNTED FIXTURE
	ILLUMINATED EXIT SIGN
XRAY	'XRAY IN USE' LIGHT
	NURSE CALL LIGHT
	DECORATIVE SURFACE FIXTURE - DRUM

KEYPLAN



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REFLECTED CEILING PLAN

SHEET NUMBER

A2.41

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INTERIOR ELEVATION NOTES

CASEWORK FINISHES:

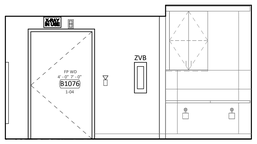
1. ALL VERTICAL CASEWORK SURFACES TO BE PLASTIC LAMINATE [PLX], U.N.O. IN INTERIOR ELEVATIONS, CASEWORK DETAILS, RCP OR PLANS. SEE MATERIALS LIST ON SHEET [A2.X].
2. ALL COUNTERTOPS TO BE SOLID SURFACE [SS-X], U.N.O. IN INTERIOR ELEVATIONS, CASEWORK DETAILS, OR PLANS. SEE MATERIALS LIST ON SHEET [A2.X].
3. ALL CASEWORK EXPOSED SURFACES SHALL HAVE PLASTIC LAMINATE FINISHED FACES AND FINISHED EDGES.
4. GRAIN PATTERN ON ALL WOODGRAIN LAMINATES TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.

CASEWORK TYPES:

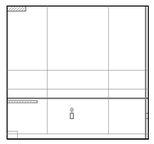
1. CASEWORK TYPE MARKS ARE LOCATED OUTSIDE THE ELEVATION. SEE CASEWORK SECTIONS AND DETAILS.
2. PLAM SOFFITS ARE LABELED AS "SFT" AND SLOPED TOP SOFFITS AS "ST". SEE A7 SHEETS FOR DETAILS.

OTHER:

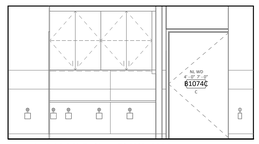
1. SEAL AROUND ALL JOINTS AT CABINETS AND COUNTERTOPS.
2. SEE A7 SHEETS FOR BACKING DETAILS.
3. CONCEALED BRACES ARE LABELED AS "CB". SEE A7 SHEETS FOR DETAIL.
4. SEE A7 SHEETS FOR STANDARD ACCESSIBILITY DETAILS AND DIMENSIONS.
5. SEE A7 SHEETS FOR MOUNTING OF MIRRORS AT WAINSCOT WALLS.
6. PROVIDE AND INSTALL 3" DIAMETER GROMMETS [MOCKETT XG1-BLACK], OR APPROVED EQUAL) WITHIN NEW CASEWORK. ASSUME ONE GROMMET WILL BE INSTALLED OVER EACH POWER OUTLET SHOWN BELOW A CASEWORK COUNTER. THE EXACT LOCATION OF THE GROMMETS MUST BE DETERMINED BY THE OWNER.
7. [PROVIDE A CAM LOCK ON ALL CABINETS WITH LOCK SYMBOLS. THE LOCK SYMBOL IS INDICATED BY A BLACK CIRCLE WITH WITH AN ADJACENT LOCK SYMBOL.]



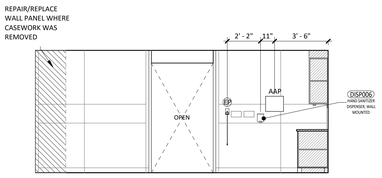
1 SOUTH INT. ELEVATION - WORK ROOM
A2.11 | A6.10 1/4" = 1'-0"



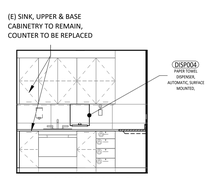
2 WEST INT. ELEVATION - WORK ROOM
A2.11 | A6.10 1/4" = 1'-0"



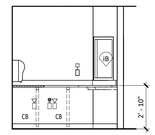
3 NORTH INT. ELEVATION - WORK ROOM
A2.11 | A6.10 1/4" = 1'-0"



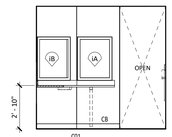
4 NORTH INT. ELEVATION - CONTROL ROOM
A2.11 | A6.10 1/4" = 1'-0"



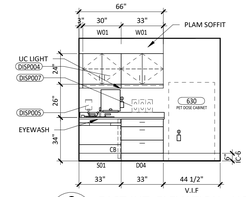
5 EAST INT. ELEVATION - CONTROL ROOM
A2.11 | A6.10 1/4" = 1'-0"



6 SOUTH INT. ELEVATION - CONTROL ROOM
A2.11 | A6.10 1/4" = 1'-0"



7 WEST INT. ELEVATION - CONTROL ROOM
A2.11 | A6.10 1/4" = 1'-0"



8 EAST INT. ELEVATION - HOT LAB
A2.11 | A6.10 1/4" = 1'-0"

9 EAST INT. ELEVATION - PET/CT
A2.11 | A6.10 1/4" = 1'-0"

10 SOUTH INT. ELEVATION - PET/CT
A2.11 | A6.10 1/4" = 1'-0"

11 WEST INT. ELEVATION - PET/CT
A2.11 | A6.10 1/4" = 1'-0"

12 B1059 UPTAKE - NORTH
1-A2.11 | A6.10 1/4" = 1'-0"

13 B1059 UPTAKE - EAST
1-A2.11 | A6.10 1/4" = 1'-0"

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GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

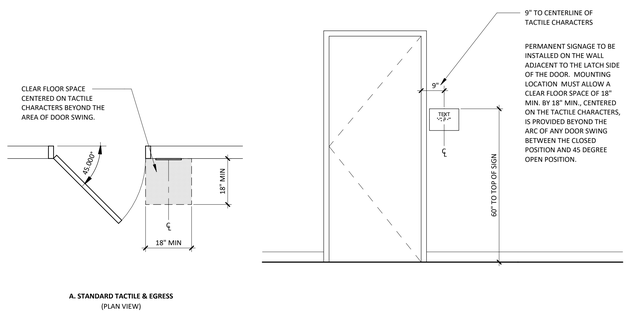
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INTERIOR ELEVATIONS

SHEET NUMBER

A6.10

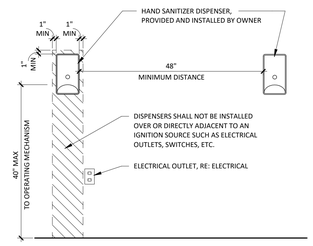
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A. STANDARD TACTILE & EGRESS
(PLAN VIEW)

1 SIGNAGE MOUNTING

A7.01 1/2" = 1'-0"



2 INSTALLATION CRITERIA FOR ALCOHOL-BASED HAND RUB DISPENSERS

A7.01 NTS

NOTES: (NFPA 101 18.3.2.6, *ALCOHOL-BASED HAND-RUB DISPENSERS*)

1. WHERE DISPENSERS ARE INSTALLED IN A CORRIDOR, THE CORRIDOR SHALL HAVE A MINIMUM WIDTH OF 6 FEET.

2. THE MAXIMUM INDIVIDUAL DISPENSER FLUID CAPACITY SHALL BE AS FOLLOWS:
   a. 0.32 GALLON (1.2 LITER) FOR DISPENSERS IN ROOMS, CORRIDORS, AND AREAS OPEN TO CORRIDORS
   b. 0.53 GALLON (2.0 LITER) FOR DISPENSERS IN SUITES OF ROOMS

3. WHERE AEROSOL CONTAINERS ARE USED, THE MAXIMUM CAPACITY OF THE AEROSOL DISPENSER SHALL BE 18 OUNCES (0.51 KILOGRAMS) AND SHALL BE LIMITED TO LEVEL 1 AEROSOLS AS DEFINED IN NFPA 30B, *CODE FOR THE MANUFACTURE AND STORAGE OF AEROSOL PRODUCTS*.

4. DISPENSERS SHALL BE SEPARATED FROM EACH OTHER BY HORIZONTAL SPACING OF NOT LESS THAN 48 INCHES.

5. NOT MORE THAN AN AGGREGATE 10 GALLONS (37.8 LITERS) OF ALCOHOL-BASED HAND RUB SOLUTION OR 1135 OUNCES (32.2 KILOGRAMS) OF LEVEL 1 AEROSOLS, OR A COMBINATION OF LIQUIDS AND LEVEL 1 AEROSOLS NOT TO EXCEED IN TOTAL, THE EQUIVALENT OF 10 GALLONS (37.8 LITERS) OR 1135 OUNCES (32.2 KILOGRAMS), SHALL BE IN USE OUTSIDE OF A STORAGE CABINET IN A SINGLE SMOKE COMPARTMENT, EXCEPT AS OTHERWISE PROVIDED IN 18.3.2.6(6).

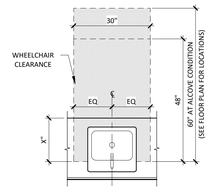
6. ONE DISPENSER COMPLYING WITH 18.3.2.6(2) OR (3) PER ROOM AND LOCATED IN THAT ROOM SHALL NOT BE INCLUDED IN THE AGGREGATED QUANTITY ADDRESSED IN 18.3.2.6(5).

7. STORAGE OF QUANTITIES GREATER THAN 5 GALLONS (18.9 LITERS) IN A SINGLE SMOKE COMPARTMENT SHALL MEET THE REQUIREMENTS OF NFPA 30, *FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE*.

8. DISPENSERS SHALL NOT BE INSTALLED IN THE FOLLOWING LOCATIONS:
   a. ABOVE AN IGNITION SOURCE WITHIN A 1 INCH HORIZONTAL DISTANCE FROM EACH SIDE OF THE IGNITION SOURCE
   b. TO THE SIDE OF AN IGNITION SOURCE WITHIN A 1 INCH HORIZONTAL DISTANCE FROM THE IGNITION SOURCE
   c. BENEATH AN IGNITION SOURCE WITHIN A 1 INCH VERTICAL DISTANCE FROM THE IGNITION SOURCE

9. DISPENSERS INSTALLED DIRECTLY OVER CARPETED FLOORS SHALL BE PERMITTED ONLY IN SPRINKLERED SMOKE COMPARTMENTS.

10. THE ALCOHOL-BASED HAND-RUB SOLUTION SHALL NOT EXCEED 95 PERCENT ALCOHOL CONTENT BY VOLUME.

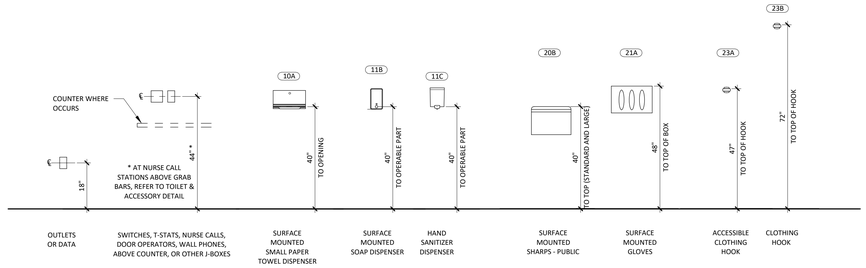


3 COUNTER MOUNT LAVATORIES & SINK

A7.01 1/2" = 1'-0"

ACCESSIBILITY GENERAL NOTES

1. ALL EXPOSED HOT AND COLD WATER PIPES AND VALVES TO BE INSULATED WITH PIPE COVERS, COVERED BY MANUFACTURER'S SHROUD, OR HIDDEN BY ANGLED CASEWORK PANEL '601'. SEE PLUMBING FIXTURE SCHEDULE FOR SHROUD AND PIPE COVER LOCATIONS. SEE INTERIOR ELEVATIONS FOR '601' LOCATIONS.
2. DIMENSIONS THAT ARE NOT MARKED MINIMUM (MIN) OR MAXIMUM (MAX) ARE ABSOLUTE.
3. THE TOILET MUST BE INSTALLED SO THAT IT IS CONTINUOUSLY PARALLEL TO THE ADJACENT SIDE WALL.
4. INSTALL FLUSH CONTROLS ON THE OPEN SIDE OF THE TOILET 44" MAXIMUM ABOVE THE FINISH FLOOR. FORCE REQUIRED TO OPERATE FLUSH CONTROLS MUST NOT EXCEED 5LBS.
5. MOUNT DRINKING FOUNTAIN SO THAT KNEE CLEARANCE UNDER FRONT LIP IS A MINIMUM OF 27" HIGH, 30" WIDE, AND EXTENDS A MINIMUM OF 8" IN DEPTH FROM THE FRONT OF THE DRINKING FOUNTAIN. TOE CLEARANCE UNDER DRINKING FOUNTAIN IS A MINIMUM OF 9" HIGH, 30" WIDE, AND EXTENDS A MINIMUM OF 17" IN DEPTH FROM THE FRONT OF THE DRINKING FOUNTAIN. THE KNEE AND TOE CLEARANCES MUST BE FREE OF EQUIPMENT OR OBSTRUCTIONS.
6. ADJUST WATER SPOUT MECHANISM TO PROVIDE A 4 INCH HIGH MINIMUM FLOW OF WATER. STREAM OF WATER MUST BE LOCATED WITHIN 5 INCHES OF THE FRONT OF THE UNIT. IF THE SPOUT IS 0-3 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM MUST BE 30 DEGREES OR LESS. IF THE SPOUT IS 3-5 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM MUST BE 15 DEGREES MAXIMUM.
7. FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
8. SEE CASEWORK DETAILS FOR ACCESSIBILITY CLEARANCES AT COUNTER MOUNTED LAVATORIES AND SINKS.



4 MOUNTING HEIGHTS

A7.01 1/2" = 1'-0"

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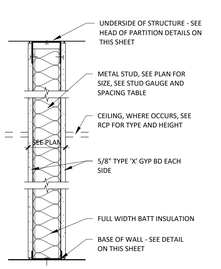
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ACCESSIBILITY DETAILS

SHEET NUMBER

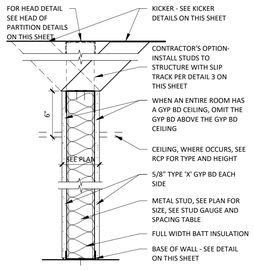
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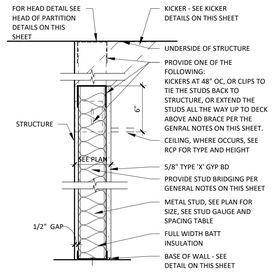


0Aa - SMOKE PARTITION

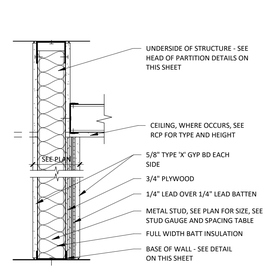
STC: 45 WHEN 3-5/8" 20 GAUGE STUDS @ 16" O.C. ARE USED PER USG RAL-TL 12-194



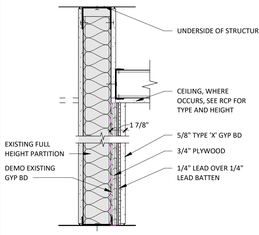
0Ba - BRACED PARTITION A



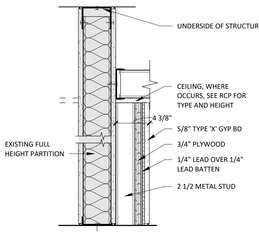
0Fa - FURRING PARTITION



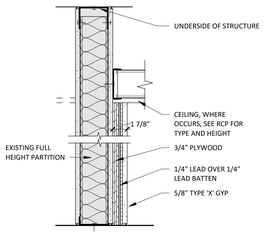
0Aa-LL - SMOKE PARTITION W/ LEAD LINING



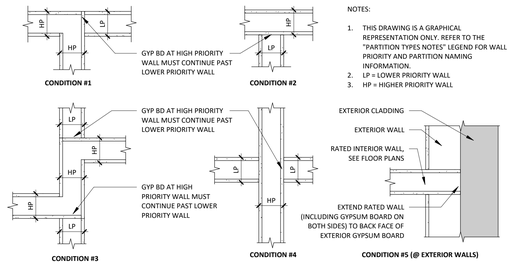
0Ea-LL - EXISTING PARTITION W/ LEAD LINING



0Fa-LL - FURRING PARTITION W/ LEAD LINING



0Eb-LL - FURRING PARTITION W/ LEAD LINING

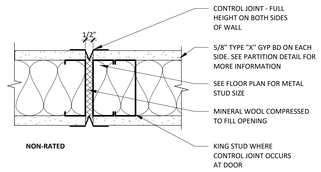


NOTES:

1. THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY. REFER TO THE "PARTITION TYPES NOTES" LEGEND FOR WALL PRIORITY AND PARTITION NAMING INFORMATION.
2. LP = LOWER PRIORITY WALL
3. HP = HIGHER PRIORITY WALL

1 PARTITION TYPES

A7.10 1 1/2" = 1'-0"



2 INTERSECTION OF PRIORITY WALLS

A7.10 1" = 1'-0"

ATTACHMENT SCHEDULE

ITEM ATTACHED TO:	FASTENER	SPACING**	REMARKS
CONCRETE OR METAL DECK WITH CONCRETE (COMPOSITE DECK)	EXPANSION ANCHORS	32"*	USE 1/2" DIAMETER HILTI KB-TZ2 WEDGE BOLT ANCHORS. INSTALL THE HILTI KB-TZ2 ANCHOR PER ICC ESR 4266. WHEN ATTACHING TO A FLUTED METAL DECK, EXPANSION ANCHORS MUST BE LOCATED NO CLOSER THAN 1" TO THE EDGE OF THE LOW FLUTE.
	POWER ACTUATED	24"*	HILTI XP OR XU FASTENERS WITH 1" EMBEDMENT INSTALLED PER ICC ESR 2269. USE POWER ACTUATED FASTENERS (PAF'S) UNLESS EXPANSION ANCHORS ARE REQUIRED. USE EXPANSION ANCHORS WHERE SHEAR EXCEEDS 90LBS. PER ICC ESR 2269 AND AT THE FOLLOWING LOCATIONS: 1. WALL HUNG CABINETS OR SHELVING THAT EXTEND MORE THAN 15" FROM THE FACE OF THE WALL. DOES NOT APPLY TO BASE CABINETS SITTING ON THE FLOOR BUT ATTACHED TO THE WALL. 2. MONITORS WITH ARTICULATING ARMS. 3. AT STEEL CONCEALED BRACES. WHEN ATTACHING TO A FLUTED METAL DECK, POWER ACTUATED FASTENERS MUST BE INTALLED WITHIN 1" OF THE FLUTE CENTER AND SHALL BE NO CLOSER THAN 1-1/8" TO THE EDGE OF A LOW FLUTE.
METAL DECK WITHOUT CONCRETE, STEEL STRAP, OR STEEL STUD	#10 SELF-DRILLING, SELF-TAPPING SHEET METAL SCREW	16"*	WHEN ATTACHING TO A FLUTED METAL DECK, SHEET METAL SCREWS MUST BE CENTERED ON THE LOWER FLUTES.

*OR AS REQUIRED BY THE UL ASSEMBLY

** SPACING ASSUMES NORMAL WEIGHT CONCRETE. VERIFY SPACING IF ANCHORING INTO LIGHT WEIGHT CONCRETE

PARTITION GENERAL NOTES

1. OFFSET FRAMING AND GYP BD AROUND STRUCTURAL MEMBERS AND OTHER OBSTRUCTIONS TO MAINTAIN ACOUSTIC, SMOKE, AND FIRE RESISTIVE RATINGS.
2. REFER TO FLOOR PLAN GENERAL NOTES FOR LOCATIONS OF MOISTURE RESISTANT AND GLASS MAT GYPSUM BOARD.
3. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, EQUIPMENT, AND ACCESSORIES PER DETAILS.
4. SEAL ALL MECHANICAL, ELECTRICAL, AND LOW VOLTAGE PENETRATIONS IN FIRE AND SMOKE RATED ASSEMBLIES. SEE THE FIRESTOPPING SECTION IN THE SPECIFICATION.
5. TOP TRACKS, UNLESS NOTED OTHERWISE, SHALL MATCH THE STUD GAUGE OF THE STUDS BUT MUST BE AT LEAST 20 GAUGE MINIMUM. PROVIDE 18 GAUGE TRACK WHERE EXPANSION ANCHORS ARE USED.
6. PROVIDE 16 GAUGE STUDS AT ALL LEAD LINED WALLS (IF ANY).
7. PROVIDE 20 GAUGE STUDS (MIN) AT ALL WALLS TO RECEIVE ABUSE RESISTANT GYP BD (IF ANY).
8. SEE "INTERIOR DOOR & WINDOW STUD WALL FRAMING ELEVATION" ON A8 SHEETS FOR FRAMING AT WINDOWS AND DOORS.
9. ALL BATT INSULATION SHOWN ON THIS SHEET SHALL BE R13 MIN. TO MEET ACOUSTIC REQUIREMENTS.
10. POST-INSTALLED ANCHORS INCLUDE: EXPANSION ANCHORS, SCREW ANCHORS, AND POWER-ACTUATED FASTENERS. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME DEVICE AND WILL HEREAFTER BE REFERED TO AS POWER ACTUATED FASTENERS (PAF).
11. EXPANSION ANCHORS (IF USED) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2015 IBC SECTIONS 1705.3 & 1901.3
12. LEAD-LINED WALLS ARE SHOWN ON THE FLOOR PLAN. WHERE LEAD IS SHOWN, PROVIDE LEAD-LINED 5/8" TYPE 'X' GYP BOARD AND FOLLOW LEAD DETAILS ON SHEETS A7.11 AND A8.20.
13. PROVIDE THE FOLLOWING METAL STUD BRIDGING 4'-0" O.C. VERTICALLY AT STUD WALLS THAT DO NOT HAVE GYP. BOARD ON BOTH SIDES. BRIDGING SHALL BE 1-1/2" x 1-1/2" x 16GA CLIP ANGLES 1/2" LESS THAN STUD DEPTH. ATTACH WITH (2) SMS TO STUD AND (2) SMS TO CRC.
14. CONCEALED BRACES REQUIRE HEAVIER GAUGE STUDS. SEE THE BRACE DETAIL FOR MORE INFORMATION.
15. PROVIDE CONTROL JOINTS AS SHOWN ON THE DRAWINGS AND IN LONG PARTITIONS AT 30'-0" INTERVALS. CONTRACTOR SHALL PROPOSE EXACT LOCATIONS FOR ARCHITECT'S APPROVAL. EXTEND FROM FLOOR TO CEILING OR FROM DOOR HEAD TO CEILING.
16. IF WALL COVERING IS SCHEDULED FOR A WALL WITH A CONTROL JOINT, THE WALL COVERING SHALL BE NEATLY AND EVENLY RECESSED INTO, AND FOLLOW THE CONTOURS OF, THE CONTROL JOINT. IF A WALL IS SCHEDULED TO BE PAINTED, PAINT THE CONTROL JOINT TO MATCH THE WALL

INTERIOR STUD GAUGE AND SPACING TABLE

PROVIDE THE FOLLOWING STUD GAUGE AND SPACING AT ALL PARTITIONS UNO:

GAUGE	SPACING
AS REQUIRED TO ACHIEVE AN L/240 MAX DEFLECTION AT 5 PSF. SUBMIT PROPOSED ASSEMBLY AND SPAN TABLE FOR APPROVAL*	16" OC

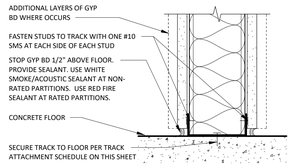
*GAUGE MAY CHANGE AT GRAB BARS, LEAD LINED WALLS, ABUSE RESISTANT GYP BD, HANDRAILS, TILE, CASEWORK, DOORS, WINDOWS, ETC. SEE THE PARTITION GENERAL NOTES ABOVE AND THE A7 SHEETS FOR DETAILS. CONFIRM SYSTEM COMPLIES WITH CODE REQUIRED DEFLECTION CRITERIA. SEE SPECIFICATIONS FOR DETAILS.

SLIP TRACK SCHEDULE

VERTICAL SLOT SLIP TRACK:*	REQUIRED DEFLECTION:	GAP BETWEEN TOP OF STUD AND TRACK:	GAP BETWEEN TOP OF GYP BD AND BOTTOM OF METAL DECK:
3" CLARKDIETRICH MAXTRACK SLT**	1" (2" OF MOVEMENT: 1" UP, 1" DOWN)	1"	1"

* OR SIMILAR PRODUCT BY OTHER MANUFACTURERS IF APPROVED BY ARCHITECT. CONTRACTOR'S OPTION- PROVIDE A DEEP LEG TRACK THAT ALLOWS THE DEFLECTION SHOWN ON THIS TABLE AND COMPLIES WITH THE UL DETAIL SHOWN.

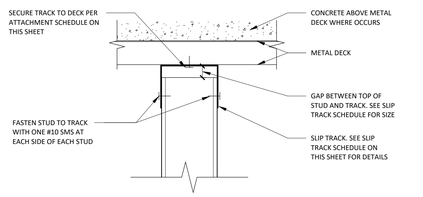
** PLACE SCREWS IN THE MIDDLE OF THE SLOT TO ALLOW UP AND DOWN MOVEMENT.



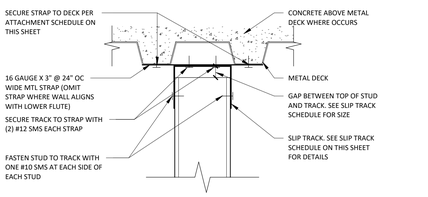
AT 1HR AND 2HR WALLS, COMPLY WITH ALL REQUIREMENTS OF UL ASSEMBLY BW-S-0002 http://bit.ly/2ickmyk

11 BASE OF WALL DETAIL

A7.10 3" = 1'-0"



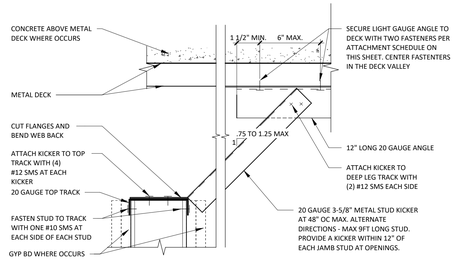
CONDITION WHERE PARTITION RUNS PERPENDICULAR TO DECK (NO GYP BD)



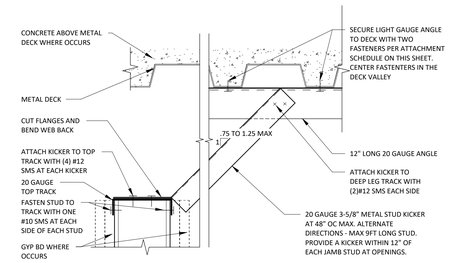
CONDITION WHERE PARTITION RUNS PARALLEL TO DECK (NO GYP BD)

12 HEAD OF PARTITION DETAILS - NO GYPSUM BOARD

A7.10 3" = 1'-0"



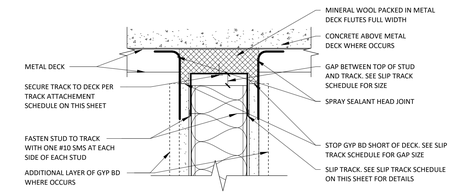
CONDITION WHERE PARTITION RUNS PERPENDICULAR TO DECK



CONDITION WHERE PARTITION RUNS PARALLEL TO DECK

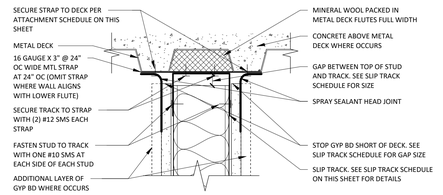
13 KICKER DETAILS

A7.10 3" = 1'-0"



SPRAY CONDITION WHERE PARTITION RUNS PERPENDICULAR TO DECK

AT 1HR AND 2HR WALLS, COMPLY WITH ALL THE REQUIREMENTS OF UL ASSEMBLY HW-D-0042 http://bit.ly/2lI4BpY



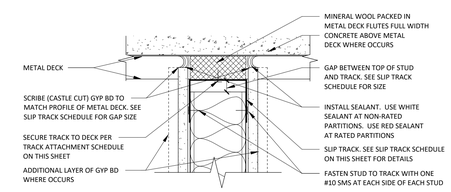
SPRAY CONDITION WHERE PARTITION RUNS PARALLEL TO DECK

AT 1HR AND 2HR WALLS, COMPLY WITH ALL THE REQUIREMENTS OF UL ASSEMBLY HW-D-0042 http://bit.ly/2lI4BpY

14 HEAD OF PARTITION DETAILS - SPRAY CONDITION

A7.10 3" = 1'-0"

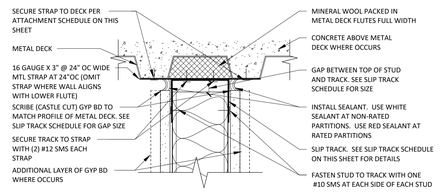
CONTRACTOR'S OPTION: USE SPRAY OR SCRIBE CONDITION DETAIL



SCRIBE (CASTLE CUT) CONDITION WHERE PARTITION RUNS PERPENDICULAR TO DECK

AT 1HR AND 2HR WALLS, COMPLY WITH ALL REQUIREMENTS OF UL ASSEMBLY HW-D-0045 http://bit.ly/2ICUQgz

CONTRACTOR'S OPTION: USE SPRAY OR SCRIBE CONDITION DETAIL

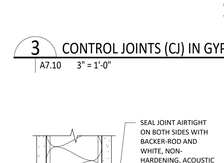


SCRIBE CONDITION WHERE PARTITION RUNS PARALLEL TO DECK

AT 1HR AND 2 HR WALLS, COMPLY WITH ALL REQUIREMENTS OF UL ASSEMBLY HW-D-0184 AT LOW FLUTE, HW-D-0264 AT HIGH FLUTE http://bit.ly/2ic8cJl OR http://bit.ly/2kMdaCu

15 HEAD OF PARTITION DETAILS - SCRIBE CONDITION

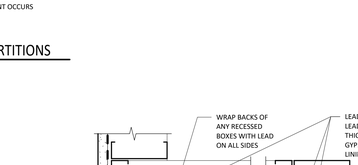
A7.10 3" = 1'-0"



PENETRATION AT SOUND AND SMOKE PARTITION

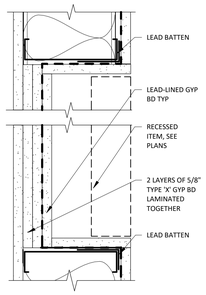
4

A7.10 3" = 1'-0"



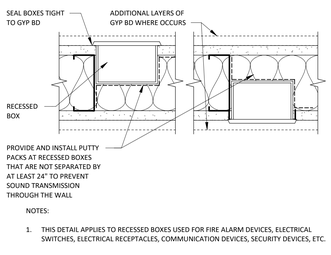
5 LEAD SHIELDING PLAN DETAIL

A7.10 3" = 1'-0"



6 LEAD SHIELDING RECESS DETAIL

A7.10 3" = 1'-0"



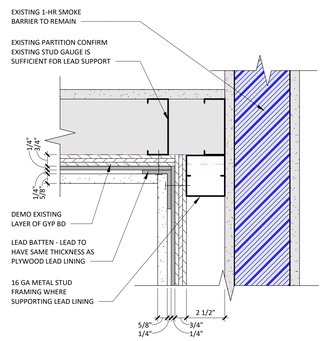
NOTES:

1. THIS DETAIL APPLIES TO RECESSED BOXES USED FOR FIRE ALARM DEVICES, ELECTRICAL SWITCHES, ELECTRICAL RECEPTACLES, COMMUNICATION DEVICES, SECURITY DEVICES, ETC.

RECESSED BOXES IN NON-RATED SOUND AND SMOKE PARTITIONS

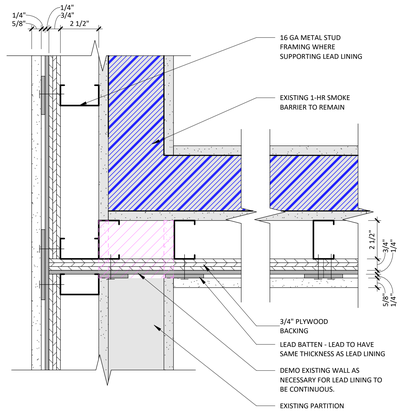
7

A7.10 3" = 1'-0"



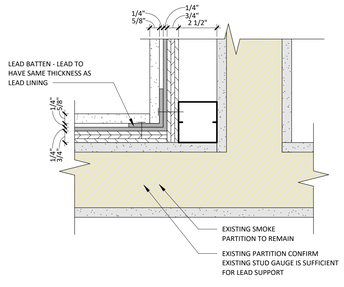
8 PLAN DETAIL @ LEAD SHIELDING

A2.11 | A7.10 3" = 1'-0"



9 PLAN DETAIL @ LEAD SHIELDING

A2.11 | A7.10 3" = 1'-0"



10 PLAN DETAIL @ LEAD SHIELDING

A2.11 | A7.10 3" = 1'-0"

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2/6/2026 2:47:03 PM
Autodesk Docs://1364087.MM GI Community Hospital M2A/257406.00 Community Hospital MOB 1 PET CT.rvt

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303.499.7795

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

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GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

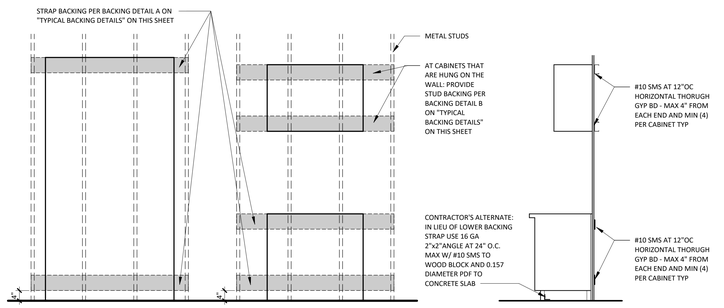
#	DESCRIPTION	DATE

SHEET TITLE

PARTITION TYPES AND DETAILS

SHEET NUMBER

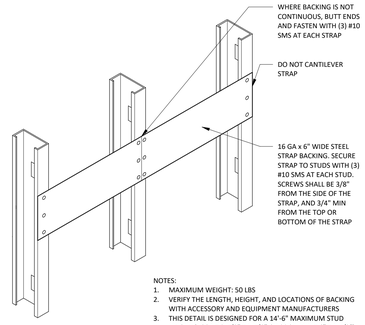
A7.10

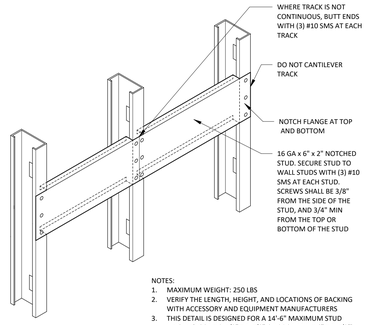


NOTE: ALL CABINETS TO BE ATTACHED TO STUDS OR STRAP BACKING AT BOTH THE TOP AND BOTTOM OF THE CABINET

1 TYPICAL CASEWORK BACKING DETAIL

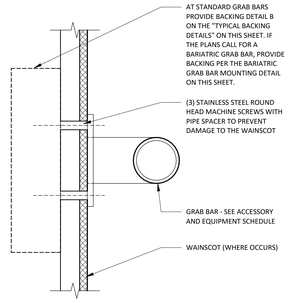
A7.20 1/2" = 1'-0"





2 TYPICAL BACKING DETAILS

A7.20 1 1/2" = 1'-0"

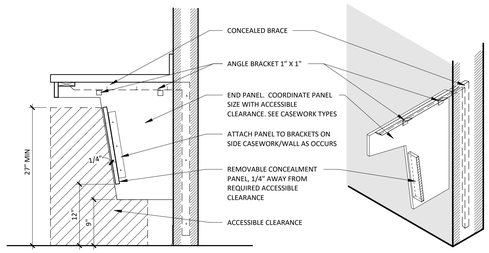


3 GRAB BAR MOUNTING DETAIL

A7.20 6" = 1'-0"

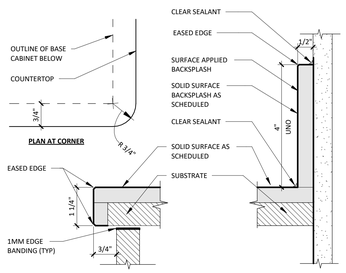
CASEWORK GENERAL NOTES

1. CAULK AROUND ALL JOINTS AT CABINETS AND COUNTERTOPS.
2. ALL CABINET BACKING PER "TYPICAL BACKING DETAIL" ON THIS SHEET.
3. SEE INTERIOR ELEVATIONS FOR LOCK LOCATIONS.
4. SEE INTERIOR ELEVATIONS FOR CONCEALED BRACE (CB) LOCATIONS.



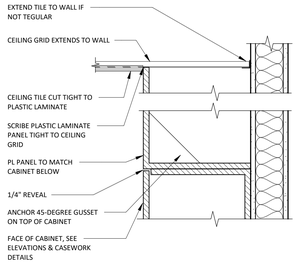
4 TYPICAL FINISHED END PANEL (ACCESSIBLE)

A7.20 1" = 1'-0"



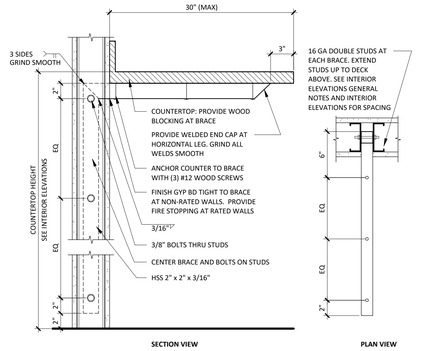
5 SOLID SURFACE COUNTERTOP EDGE AND BACKSPLASH

A7.20 6" = 1'-0"



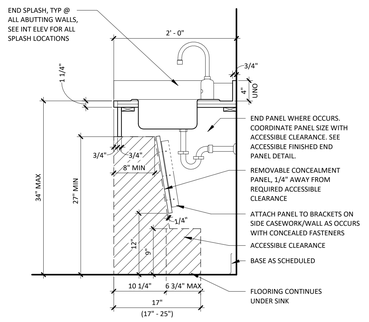
6 TYP PLASTIC LAMINATE SOFFIT OVER CASEWORK (SFT)

A2.41 | A7.20 1 1/2" = 1'-0"



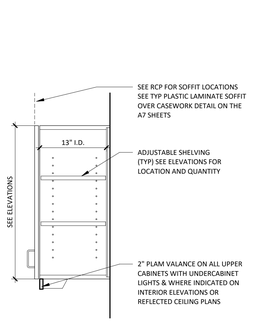
7 CONCEALED BRACE (CB)

A7.20 1 1/2" = 1'-0"



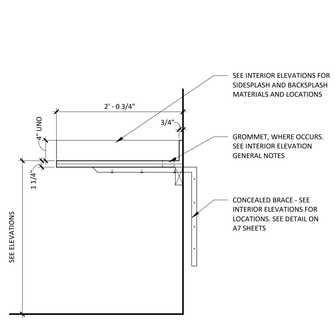
8 CASEWORK TYPE "S01" (ACCESSIBLE)

A7.20 1" = 1'-0"



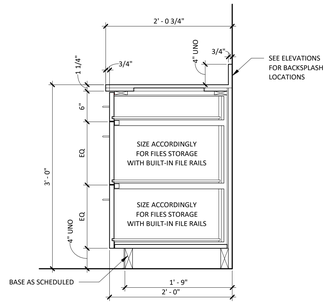
9 CASEWORK TYPE "W01"

A7.20 1" = 1'-0"



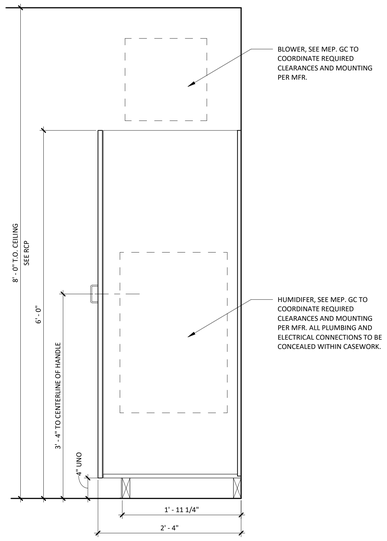
10 CASEWORK TYPE "C01"

A7.20 1" = 1'-0"



11 CASEWORK TYPE "D04"

A7.20 1" = 1'-0"



12 CASEWORK TYPE "F02"

A7.20 1" = 1'-0"

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303.499.7795

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

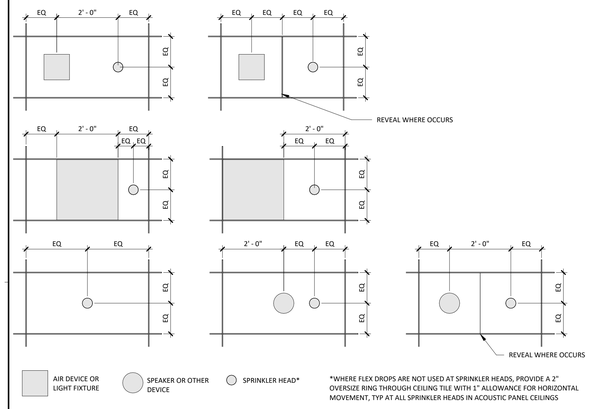
SHEET TITLE

CASEWORK DETAILS

SHEET NUMBER

A7.20

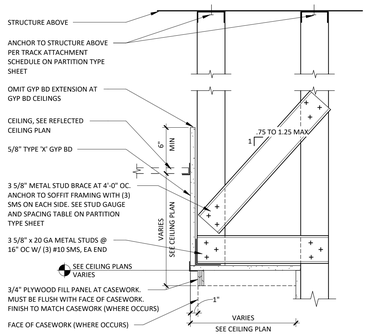
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*WHERE FLEX DROPS ARE NOT USED AT SPRINKLER HEADS, PROVIDE A 2" OVERSIZE RING THROUGH CEILING TILE WITH 1" ALLOWANCE FOR HORIZONTAL MOVEMENT, TYP AT ALL SPRINKLER HEADS IN ACOUSTIC PANEL CEILINGS

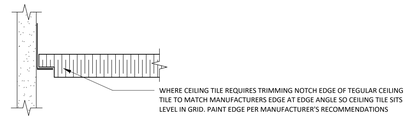
1 TYPICAL LOCATIONS FOR ITEMS MOUNTED IN ACOUSTIC PANEL CEILINGS

A7.40 1/2" = 1'-0"



2 TYPICAL GYP BOARD SOFFIT AT PARTITION

A2.41 | A7.40 1 1/2" = 1'-0"

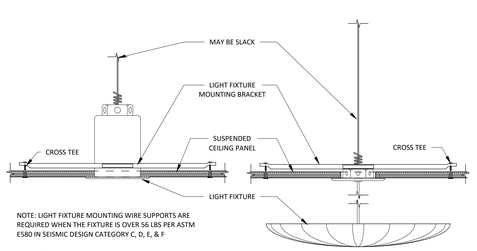


3 TYPICAL TEGULAR CEILING TILE AT EDGE ANGLE

A7.40 6" = 1'-0"

GENERAL NOTES

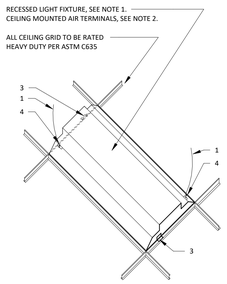
1. TOP TRACKS SHALL MATCH THE STUD GAUGE OF THE STUDS BUT MUST BE AT LEAST 20 GA MINIMUM.
2. ALL FASTENERS LABLED "SMS" SHALL BE MIN. #10 SELF-DRILLING, SELF-TAPPING SHEET METAL SCREWS.
3. PROVIDE METAL STUD BRIDGING AT 4'-0" O.C. VERTICALLY AT STUDS THAT DO NOT HAVE GYP BOARD ON BOTH SIDES. METAL STUD BRIDGING SHALL BE AS FOLLOWS: 1-1/2"x16GA COLD-ROLLED CHANNEL (CRC) HORIZONTAL BRIDGING WITH 1-1/2"x1-1/2"x16GA CLIP ANGLES 1/2" LESS THAN STUD DEPTH. ATTACH WITH (2) SMS TO STUD AND (2) SMS TO CRC.



NOTE: LIGHT FIXTURE MOUNTING WIRE SUPPORTS ARE REQUIRED WHEN THE FIXTURE IS OVER 56 LBS PER ASTM E580 IN SEISMIC DESIGN CATEGORY C, D, E, & F

4 SDC C, D, E, & F ACOUSTIC CEILING LIGHT FIXTURE MOUNTING

A7.40 1 1/2" = 1'-0"



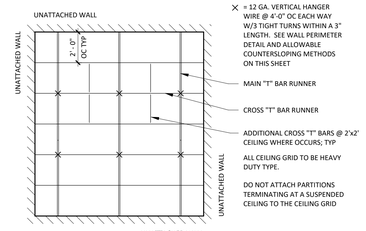
1. LIGHT FIXTURES ARE SUPPORTED DIRECTLY BY THE CEILING GRID RUNNERS, BUT MUST ALSO HAVE #12 GA WIRES CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THE NUMBER OF WIRES DEPENDS ON THE LIGHT FIXTURE WEIGHT AND SIZE, SEE TABLE BELOW.
2. CEILING MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE (1) #12 GA SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL HOUSING TO THE STRUCTURE ABOVE.
3. ATTACH FIXTURE TO CEILING GRID WITH CLIPS PROVIDED BY MANUFACTURER. MINIMUM TWO CLIPS PER FIXTURE.
4. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
5. CEILING SYSTEM TO COMPLY WITH ASTM E580, C635, AND C636.
6. ANCHOR HANGER WIRES TO STRUCTURE ABOVE PER "WIRE CONNECTIONS TO STRUCTURE" DETAIL ON THIS SHEET.

SEPARATE HANGER WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT.

	FIXTURE SIZE UP TO 24"x48"	FIXTURE SIZE 48"x48" MAX
<= 10 LBS	ONE #12 GA SLACK SAFETY WIRE	FOUR #12 GA SLACK SAFETY WIRES, AT CORNERS OF FIXTURE
10 - 56 LBS	TWO #12 GA SLACK SAFETY WIRES, AT DIAGONAL CORNERS OF FIXTURE	
> 56 LBS	FOUR #12 GA TAUT HANGER WIRES, AT CORNERS OF FIXTURE. MUST BE CAPABLE OF SUPPORTING 4X THE WEIGHT OF THE FIXTURE	

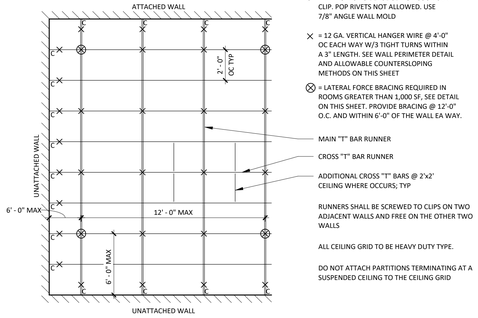
5 SDC C, D, E, & F RECESSED FIXTURE IN T-BAR CEILING

A7.40 1 1/2" = 1'-0"



6 SDC C, D, E, & F ACOUSTIC CEILING LAYOUT FOR ROOMS UNDER 144 SF

A7.40 1/4" = 1'-0"



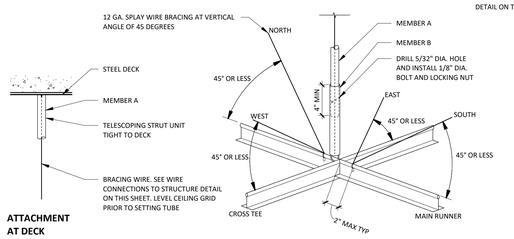
7 SDC C, D, E, & F ACOUSTIC CEILING LAYOUT FOR ROOMS 144 SF OR OVER

A7.40 1/4" = 1'-0"

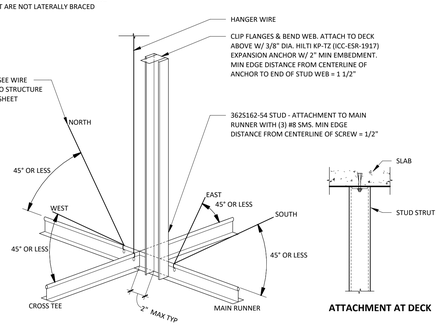
COMPRESSION STRUT SCHEDULE		
MAX LENGTH*	MEMBER "A"	MEMBER "B"
6' - 6"	1" DIA. EMT	1-1/4" DIA. EMT
8' - 6"	1-1/4" DIA. EMT	1-1/2" DIA. EMT
10' - 6"	1-1/2" DIA. EMT	1-3/4" DIA. EMT
15' - 0"	3625162-S4 MTL STUD	

*STUD STRUT OPTION MAY BE USED FOR ANY LENGTH

NOTE: LATERAL FORCE BRACING MEMBERS SHALL BE MINIMUM 6" AWAY FROM HORIZONTAL PIPING AND DUCTS THAT ARE NOT LATERALLY BRACED



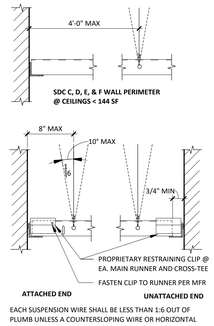
COMPRESSION STRUT OPTION



STUD STRUT OPTION

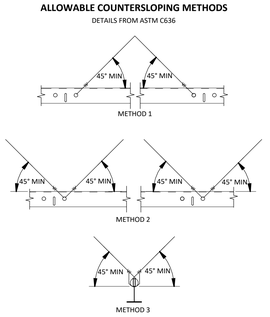
8 SDC C, D, E, & F LATERAL FORCE BRACING

A7.40 1 1/2" = 1'-0"



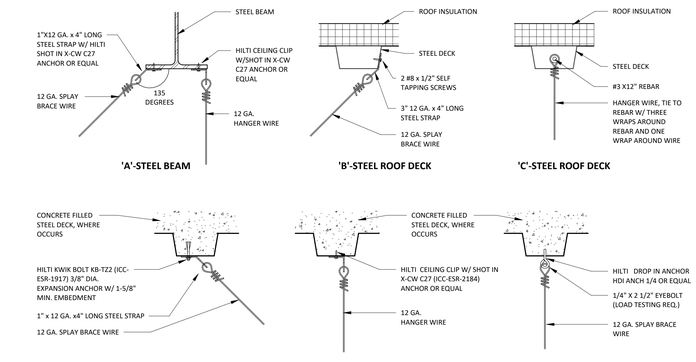
9 SDC C, D, E, & F WALL PERIMETER

A7.40 3" = 1'-0"



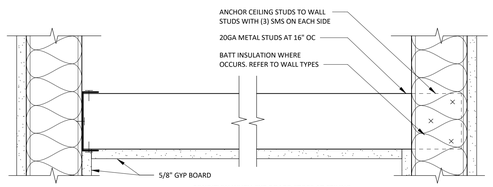
10 SDC C, D, E, & F ALLOWABLE COUNTERSLOPING

A7.40 3" = 1'-0"



11 WIRE CONNECTIONS TO STRUCTURE

A7.40 1 1/2" = 1'-0"



MEMBER	SPAN*
250S125	8'-7"
250S137	9'-8"
250S162	10'-10"
362S125	9'-5"
362S137	10'-8"
362S162	12'-2"
600S125	10'-11"
600S137	12'-4"
600S162	14'-0"

*ASSUMES 20 GA STUDS, L/360, 6PSF, JOISTS 16" OC BASED ON SSMA CEILING SPAN TABLES

12 GYP BOARD CEILING ON METAL STUD FRAMING

A7.40 3" = 1'-0"

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

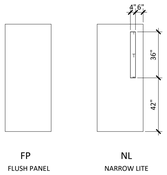
#	DESCRIPTION	DATE

SHEET TITLE

CEILING DETAILS

SHEET NUMBER

A7.40



FP
FLUSH PANEL

NL
NARROW LITE



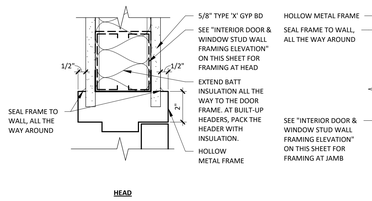
T PATTERN INDICATES TEMPERED GLAZING



SP
STANDARD PROFILE
DOUBLE RABBETED

DOOR TYPES

DOOR FRAME TYPES

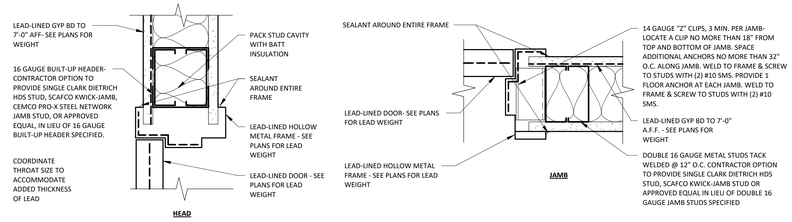


HEAD

JAMB

3 HOLLOW METAL DOOR FRAME HEAD/JAMB DETAILS

A8.10 | A8.10 3" = 1'-0"

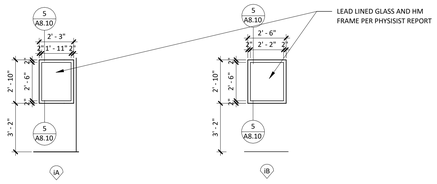


HEAD

JAMB

4 LEAD LINED HOLLOW METAL DOOR FRAME HEAD/JAMB DETAILS

A8.10 | A8.10 3" = 1'-0"

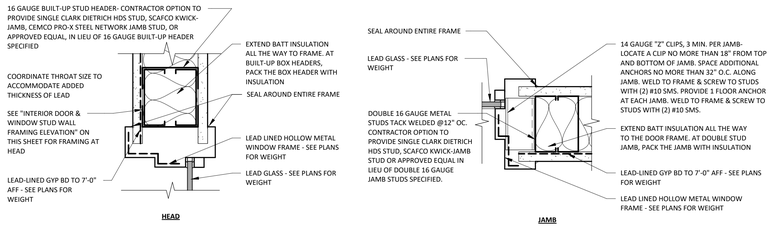


iA

iB

WINDOW TYPE - iA

WINDOW TYPE - iB



HEAD

JAMB

5 LEAD LINED HOLLOW METAL WINDOW FRAME HEAD/JAMB DETAILS

A8.10 | A8.10 3" = 1'-0"

DOOR SCHEDULE

		DOOR							FRAME				DETAILS			
		DOOR WIDTH														
DOOR #	HARDWARE GROUP	OVERALL WIDTH	LEAF 1 WIDTH	LEAF 2 WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL	FIRE RATING	STC	HEAD	JAMB	THRESHOLD	COMMENTS
B1044	1-04	3' - 0"			7' - 0"	1 3/4"	NL	WD	SP	HM			4/A8.10	4/A8.10		1/8" LEAD SHIELDING
B1059	1-04	4' - 0"	4' - 0"		7' - 0"	1 3/4"	NL	WD	SP	HM			4/A8.10	4/A8.10		1/8" LEAD SHIELDING
B1076	1-04	4' - 0"	4' - 0"		7' - 0"	1 3/4"	FP	WD	SP	HM			4/A8.10	4/A8.10		1/16" LEAD SHIELDING
B1077	5-02	3' - 0"	3' - 0"		7' - 0"	1 3/4"	NL	WD	SP	HM			3/A8.10	3/A8.10		

HARDWARE SETS

NUMBERING STANDARD

XX - 01

HARDWARE SET #

HARDWARE FUNCTION

1	PASSAGE LATCHSET
2	PRIVACY LOCKSET
3	OFFICE LOCKSET
4	CLASSROOM LOCKSET
5	STORAGE LOCKSET
6	SLIDING PASSAGE LATCHSET
7	ENTRANCE LOCKSET
8	PUSH / PULL LATCHSET
9	EXIT DEVICE
10	KEYPAD LOCKSET
11	HOSPITAL LATCHSET
12	DELAYED EGRESS
13	OTHER

1-04 PASSAGE LATCHSET (LEAD)

1 SET	PIVOTS
1 EA	INTERMEDIATE PIVOT
1 EA	PASSAGE LATCHSET
1 EA	WALL STOP
1 SET	SEAL - INTERIOR

5-02 STORAGE LOCKSET

3 EA	HINGES
1 EA	STORAGE LOCKSET
1 EA	ELECTRIC STRIKE
1 EA	WALL STOP
1 EA	CLOSER
1 SET	SEAL - INTERIOR
1 EA	CARD READER

HARDWARE MANUFACTURERS / TYPES

	BASED ON ALLEGION			BASED ON ASSA ABLOY		
TYPE	MANUFACTURER	SERIES/MODEL	COMMENTS	MANUFACTURER	SERIES/MODEL	COMMENTS
PASSAGE LATCHSET	SCHLAGE	ND10 SPA		SARGENT	11U15 BP	
PRIVACY LOCKSET	SCHLAGE	ND40 SPA		SARGENT	11U65 BP	
PRIVACY W/ INDICATOR (MORTISE)	SCHLAGE	L9496 17	W/ OCCUPANCY INDICATOR	SARGENT	8267 V21	W/ OCCUPANCY INDICATOR
OFFICE LOCKSET	SCHLAGE	ND50 SPA		SARGENT	11G24 BP	
STOREROOM LOCKSET	SCHLAGE	ND80 SPA		SARGENT	11G04 BP	
ENTRANCE LOCKSET	SCHLAGE	ND53 SPA		SARGENT	11G05 BP	
CLASSROOM LOCKSET	SCHLAGE	ND70 SPA		SARGENT	11G37 BP	
HOSPITAL LATCHSET	SCHLAGE	HL6-E5		SARGENT	115	
ELECTRIFIED LOCK	SCHLAGE	ND80ELPD		SARGENT	10XG70	
SLIDING PASSAGE	AD SYSTEMS	AD6010-L03		AD SYSTEMS	AD6010-L03	
SLIDING PRIVACY	AD SYSTEMS	AD6440-L03		AD SYSTEMS	AD6440-L03	
SLIDING PRIVACY W/ INDICATOR	AD SYSTEMS	AD6440-L03-I	W/ OCCUPANCY INDICATOR	AD SYSTEMS	AD6440-L03-I	W/ OCCUPANCY INDICATOR
SLIDING OFFICE	AD SYSTEMS	AD6450-L03		AD SYSTEMS	AD6450-L03	
EXIT DEVICE	VON DUPRIN	98/99 SERIES*	LESS BOTTOM ROD (LBR)	SARGENT	80 SERIES*	LESS BOTTOM ROD (LBR)
DELAYED EGRESS	VON DUPRIN	CX-98/99 SERIES		SARGENT	59-80 SERIES	
INTEGRAL KEYPAD LOCKSET	LOCKEY	1150		LOCKEY	1150	
DEADBOLT FOR STOREFRONT	ADAMS RITE	MS 1850		ADAMS RITE	MS 1850	
MORTISE CYLINDER	SCHLAGE	20-057		SARGENT	63-34	
AUTO FLUSH BOLT	IVES	FB41T	TOP ONLY - WOOD	ROCKWOOD	2940	TOP ONLY - WOOD
AUTO FLUSH BOLT	IVES	FB31T	TOP ONLY - HM	ROCKWOOD	2840	TOP ONLY - HM
AUTO FLUSH BOLT	IVES	FB42	TOP W/ FIRE BOLT - WOOD	ROCKWOOD	2948	TOP W/ FIRE BOLT - WOOD
AUTO FLUSH BOLT	IVES	FB32	TOP W/ FIRE BOLT - HM	ROCKWOOD	2848	TOP W/ FIRE BOLT - HM
AUTO FLUSH BOLT	IVES	FB41P	T & B SET - WOOD	ROCKWOOD	2942	T & B SET - WOOD
AUTO FLUSH BOLT	IVES	FB31P	T & B SET - HM	ROCKWOOD	2842	T & B SET - HM
SEMI-AUTOMATIC FLUSH BOLT	IVES	FB61T	TOP ONLY - WOOD	ROCKWOOD	2905	TOP ONLY - WOOD
SEMI-AUTOMATIC FLUSH BOLT	IVES	FB51T	TOP ONLY - HM	ROCKWOOD	2805	TOP ONLY - HM
MANUAL FLUSH BOLT	IVES	FB358	TOP ONLY - WOOD	ROCKWOOD	557	TOP ONLY - WOOD
MANUAL FLUSH BOLT	IVES	FB458	TOP ONLY - HM	ROCKWOOD	555	TOP ONLY - HM
DUSTPROOF STRIKE	IVES	DP2		ROCKWOOD	570	
HINGES	IVES	5BB1		MCKINNEY	TA2314	
SWING CLEAR HINGES	IVES	5BB1SC		MCKINNEY	TA2895	
CONTINUOUS HINGES	IVES	700		MARKAR	FM300	
CONTINUOUS SWING CLEAR HINGES	IVES	711		MARKAR	HG310	
GEARED CONTINUOUS HINGES	IVES	112XY		PEMKO	XF	
GEARED CONTINUOUS SWING CLEAR HINGES	IVES	041XY		PEMKO	_OS_OM	
DOUBLE SWING CONTINUOUS HINGE & EMERGENCY RELEASE STOP	PEMKO	DSH_ & ERS_		PEMKO	DSH_ & ERS_	
TOP & BOTTOM PIVOT SET	IVES	7226 SET LEAD	LEAD LINED	RIXSON	L147	LEAD LINED
INTERMEDIATE PIVOT	IVES	7226 INT LEAD	LEAD LINED	RIXSON	ML19	LEAD LINED
WALL STOP	IVES	WS406/407CCV		ROCKWOOD	409	
FLOOR STOP	IVES	FS436		ROCKWOOD	441H	
OVERHEAD STOP	GLYNN JOHNSON	90_S		RIXSON	9-_36	
CLOSER	LCN	4040XP		NORTON	7500	
CLOSER W/ INTEGRAL STOP	LCN	4040XP CUSH		NORTON	CLP7500	
CLOSER WITH MOTION SENSOR	NORTON	7100SZ		NORTON	7100SZ	
MAGNETIC HOLD OPEN	LCN	SEM7830		RIXSON	996M	
COORDINATOR	IVES	COR	NO COR7G OR COR9G	ROCKWOOD	2600 SERIES	
DOOR OPERATOR	LCN	9500 SERIES	WITHOUT PUSH & GO	NORTON	6000 SERIES	
DOOR ACTUATOR	LCN	8310 SERIES	8310-8537, 8310-818T, 8310-813, 8310-836T, OR 8310-810 (TOUCHLESS)	NORTON	502, 503, 639, OR 700 (TOUCHLESS)	
SEAL - INTERIOR	ZERO	188FS		PEMKO	S88D	
SEAL - EXTERIOR	ZERO	328		PEMKO	303_S	
SEAL - INTERIOR DOUBLE SWING	ZERO	381	JAMBS AND HEAD	PEMKO	369_P	JAMBS AND HEAD
AUTOMATIC DOOR BOTTOM	ZERO	360 z49		PEMKO	434_RL	
ASTRAGAL - OVERLAPPING	ZERO	41		PEMKO	355_S	
ASTRAGAL - TWO-PIECE	ZERO	328		PEMKO	303_S	
THRESHOLD	ZERO	545A		PEMKO	271A	
KICK PLATE	IVES	12" X 2" LDW		ROCKWOOD	K1050	12" X 2" LDW
STRETCHER PLATE	IVES	6" X 2" LDW		ROCKWOOD	K1050	6" X 2" LDW
ARMOR PLATE	IVES	40" X 2" LDW		ROCKWOOD	K1050	40" X 2" LDW
PUSH/PULL PLATE	IVES	8302, 3 1/2" x 15" & 8200, 3 1/2" x 15" 8" CENTERS		ROCKWOOD	107x738 & 738	
ELECTRIC STRIKE	VON DUPRIN	6211		HES	1006	
ELECTRIC STRIKE	VON DUPRIN	6100 SERIES	FOR RIM DEVICES ONLY	HES	7000	
CARD READER	BY OWNER			BY OWNER		
POWER TRANSFER	VON DUPRIN	EPT		SECURITRON	EPT	
POWER TRANSFER - SWING CLEAR HINGES	SCHLAGE	788-12		SECURITRON	EPT-SC	

*SURFACE MOUNTED AT WOOD DOORS. CONCEALED AT STOREFRONT AND HOLLOW METAL DOORS

DOOR HARDWARE NOTES

1. PROVIDE LEVER-TYPE DOOR HANDLES OPERABLE BY A SINGLE EFFORT WITH NO GRASPING OR HAND MOVEMENT REQUIRED. ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE, WITHOUT ANY SPECIAL KNOWLEDGE, EFFORT OR USE OF A KEY.
2. FURNISH ALL HARDWARE WITH US26D FINISH, UNO. THRESHOLD AND WEATHERSTRIP TO BE MILL FINISH ALUMINUM. CLOSERS TO BE SPRAYED ALUMINUM. SATIN STAINLESS STEEL US32D MAY BE USED FOR TRIM AND FLAT GOODS.
3. DOORS LESS THAN 3'-6" WIDE TO HAVE 4.5 x 4.5 HINGES. DOORS 3'-6" OR WIDER TO HAVE 5 X 4.5 HINGES
4. PROVIDE 3 HINGES EACH FOR LEAFS LESS THAN 8'-0" IN HEIGHT, 4 HINGES EACH FOR LEAFS 8'-0" IN HEIGHT OR GREATER.
5. WHEN SPECIFIED, KICKPLATE TO BE PROVIDED ON PUSH SIDE OF DOORS, UNLESS NOTED OTHERWISE.
6. AUTO DOOR BOTTOMS TO BE FULLY-MORTISED OR SEMI-MORTISED INTO DOORS.
7. ALL DOOR HARDWARE SHALL BE MOUNTED 40" ABOVE FINISHED-FLOOR, UNLESS NOTED OTHERWISE.
8. INSTALL DOOR CLOSERS SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POSITION 12 DEGREES FROM THE LATCH.
9. THE MAXIMUM FORCE REQUIRED TO PUSH OR PULL OPEN A DOOR SHALL BE NO MORE THAN 5 LB FOR INTERIOR AND EXTERIOR DOORS. THE MAXIMUM FORCE REQUIRED TO PUSH OR PULL OPEN A FIRE-RATED DOOR SHALL BE NO MORE THAN 15 LBS.
10. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
11. CONTRACTOR TO PROVIDE POWER SUPPLIES & CONNECTIONS AT ALL APPLICABLE HARDWARE.
12. USE THE ARCHITECTURAL DRAWING DOOR AND HARDWARE NUMBERING SYSTEM FOR THE SUBMITTAL.
13. PROVIDE REMOVABLE CORES AT ALL LOCKSETS. COORDINATE KEYING WITH OWNER PRIOR TO ORDERING.
14. PROVIDE FIRE RATED EXIT/RIM DEVICES WHERE INSTALLED ON RATED DOORS.
15. ALL SLIDING DOOR HARDWARE BY SLIDING DOOR MANUFACTURER
16. EXCEPT FOR CYLINDERS, THE HARDWARE GROUPS FOR STOREFRONT DOORS (IF ANY) ARE IN THE STOREFRONT SPECIFICATION SECTION (NOT HERE).
17. HARDWARE GROUPS FOR AUTOMATIC ENTRANCE DOORS (IF ANY) ARE IN THE AUTOMATIC ENTRANCE SPECIFICATION SECTION (NOT HERE).
18. HARDWARE GROUPS FOR ICU SLIDER DOORS (IF ANY) ARE IN THE ICU SLIDER DOOR SPECIFICATION SECTION (NOT HERE).
19. PROVIDE CONTINUOUS DOOR SEALS AT ALL DOOR JAMBS AND HEADS.

DOOR FINISH

DOOR TYPE: PLASTIC LAMINATE-FACED

PLASTIC LAMINATE: HPL-2, SEE MATERIALS LIST

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303.499.7795

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE

DOOR SCHEDULE AND TYPES, DOOR HARDWARE

SHEET NUMBER

A8.10

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GENERAL NOTES

1. **GENERAL:**
   A. ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

2. **USE OF DRAWINGS:**
   A. DO NOT SCALE DRAWINGS.
   B. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES.
   C. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, AND GENERAL NOTES:
      1. CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
      2. THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

3. **EXISTING STRUCTURES:**
   A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS.
   B. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
      1. SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN
      2. DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS
      3. CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
      4. ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD
   C. PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.
   D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
   E. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.
   F. SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SECURE APPROVAL PRIOR TO CUTTING. NEW OPENING MAY BE EITHER SHOWN ON THE CONTRACT DOCUMENTS OR PROPOSED BY THE CONTRACTOR. DRAWING SHALL SHOW:
      1. VERTICAL & HORIZONTAL LOCATION AND SIZE OF NEW OPENING(S
      2. ALL EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING(S
      3. ALL EXISTING STRUCTURE (BEAMS, COLUMNS, SLABS, WALLS, ETC) IN THE VICINITY OF THE NEW OPENING(S)
      4. ALL REINFORCING BAR SIZES AND POSITIONS (LAYOUT LOCATION AND DEPTH) CONFLICTING WITH OR IN THE VICINITY OF THE NEW OPENING(S).

4. **COORDINATION:**
   A. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
   B. COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
   C. SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/240 AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.

5. **SUBSTITUTIONS:**
   A. SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS
   B. NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.

6. **TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS:**
   A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE.
   B. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK.
   C. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.

DESIGN CRITERIA

1. **CODES AND STANDARDS:**
   A. BUILDING CODE
      1. INTERNATIONAL BUILDING CODE 2024
   B. DESIGN LOAD STANDARD
      1. ASCE/SEI 7-22 "MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES"

1. **BUILDING RISK CLASSIFICATION:**
   A. BUILDING RISK CATEGORY: IV

2. **GRAVITY LOADS:**
   A. SUPERIMPOSED DEAD LOAD AND LIVE LOADS USED IN DESIGN
      1. MEDICAL EQUIPMENT: PER MANUFACTURER SPECIFICATIONS

3. **SEISMIC LOADS:**
   A. SOIL SITE CLASS = D
   B. EARTHQUAKE IMPORTANCE FACTOR, I_e = 1.50
   C. MAPPED SPECTRAL RESPONSE ACCELERATION, S_s = 0.22 g
   D. MAPPED SPECTRAL RESPONSE ACCELERATION, S_1 = 0.05 g
   E. DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{DS} = 0.180 g
   F. DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{D1} = 0.073 g
   G. SEISMIC DESIGN CATEGORY = C
   H. SEISMIC BRACING OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING SYSTEMS IS REQUIRED.
      1. SEE DEFERRED SUBMITTALS.

DEFERRED SUBMITTALS

1. **GENERAL:**
   A. THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
      1. SEISMIC ANCHORAGE, BRACING, AND ATTACHMENT OF REQUIRED MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION, ARCHITECTURAL, AND OTHER EQUIPMENT.
      2. PERFORMANCE SPECIFIED SUPPORT FRAMING FOR SUSPENDED MEDICAL EQUIPMENT.
   B. CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO.
   C. ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.
   D. LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.
   E. SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.

POST-INSTALLED ANCHOR NOTES

1. **PERSONNEL REQUIREMENTS:**
   A. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.
   B. PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

2. **INSTALLATION REQUIREMENTS:**
   A. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING.
   B. ALL ADHESIVE ANCHORS AND ADHESIVE ANCHORED REINFORCEMENT DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION IN ALTERNATE CONDITIONS.
      1. DRY CONCRETE, UNLESS NOTED OTHERWISE.
      2. CONCRETE TEMPERATURE AT TIME OF INSTALLATION THROUGH CURE TIME MUST BE WITHIN THE TEMPERATURE RANGE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES.
      3. ANCHOR HOLES TO BE HAMMER DRILLED AND CLEANED.
      4. CONCRETE MUST BE AT LEAST 21 DAYS OLD BEFORE INSTALLATION OF ANCHORS.
      5. HOLES TO BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND EVALUATION REPORT PRIOR TO ADHESIVE INJECTION.
   C. THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO INSTALLING POST INSTALLED ANCHORS OR REINFORCEMENT. EXISTING REINFORCEMENT SHALL BE LOCATED USING A SCANNER, GPR, X-RAY, CHIPPING OR OTHER MEANS. DO NOT DAMAGE OR CUT EXISTING REINFORCEMENT.

3. **SUBSTITUTION REQUESTS:**
   A. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS AND PRODUCT DATA DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS IN COMPLIANCE WITH THE RELEVANT BUILDING CODES, LOAD RESISTANCE, INSTALLATION CATEGORY, CREEP APPROVAL, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE OF THE SPECIFIED PRODUCT.

POST-INSTALLED ANCHOR TABLE - HILTI

ANCHOR TYPE	PRODUCT	Fy (KSI)	Fu (KSI)	COMMENT
ADHESIVE (IN CONCRETE)	HILTI HIT-HY 200 V3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE ANCHOR RODS	-	36 MIN	58 MIN	THREADED ROD, UNGREASED
EXPANSION ANCHORS (IN CONCRETE)	HILTI KWIK BOLT TZ2	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
SCREW ANCHORS	HILTI KWIK HUS-EZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS

CONCRETE NOTES

1. **GENERAL:**
   A. ALL WORK SHALL CONFORM WITH ACI 301-20, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.
   B. DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2. **REINFORCING MATERIALS:**
   A. TYPICAL REINFORCING: ASTM A615 (Fy = 60 KSI, Fu = 90 KSI)
   B. WELDED & FIELD BENT REINFORCEMENT: ASTM A706 (Fy = 60 KSI, Fu = 80 KSI)

3. **REINFORCING FABRICATION:**
   A. SPLICES:
      a. NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS.
   B. MISCELLANEOUS REINFORCING REQUIREMENTS:
      a. PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
      b. MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
      c. NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011.

4. **STRUCTURAL CONCRETE MIX REQUIREMENTS:**
   A. SEE 'CONCRETE MIX TABLE'

5. **PLACING REINFORCEMENT:**
   A. REINFORCEMENT PROTECTION:
      A. PROVIDE 1" MIN CLEAR COVER TO REBAR IN SLABS
      B. SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES
   B. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

6. **MODIFICATIONS TO HARDENED OR EXISTING CONCRETE**
   A. UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT:
      a. SAW CUTTING
      b. CORING
      c. CHIPPING
   B. DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ARCHITECT

CONCRETE MIX TABLE

CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN), NOTE a	TOTAL AIR CONTENT (%), NOTE b
1	INTERIOR SLAB ON GRADE & TOPPING SLABS	3	NWC	-	3/4	-

CONCRETE MIX TABLE NOTES:

PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO:

- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.

- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW.

a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
3/4": #67 AGGREGATE

b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.

QUALITY ASSURANCE GENERAL NOTES
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1. **GENERAL:**
   A. SCOPE OF WORK
      - THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
      - SUBMIT DOCUMENTATION OF QUALIFICATIONS, INCLUDING COMPETENCE AND RELEVANT WORK EXPERIENCE OR TRAINING OF SPECIAL INSPECTORS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
      - SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2021 SECTION 110.
      - REFER TO ARCH/MECH/ELEC/CIVIL DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.

   B. SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

   C. DEFINITIONS
      - SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
      - SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2021 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
      - (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
      - (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

   D. DEFICIENCIES IN WORK
      - CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
      - ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

STRUCTURAL CONCRETE SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 301-16 3.2-3.3	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- WELDING	C	AWS D1.4	VERIFY ASTM A706 REINFORCING STEEL
- FIELD BENDING	P	ACI 301-16 3.3.2.8	-
- COATED REINFORCING	P	ACI 301-16 3.2.1.2	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
- WELDING	-	-	INSPECT PER THE STRUCTURAL STEEL TABLE
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- PLACEMENT OF CONCRETE	C	ACI 301-16 5.3.2	-
- CURING	P	ACI 301-16 5.3.6	-

POST-INSTALLED ANCHOR/ REINF STEEL SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
- CURE TIME	100% VISUAL	-	VERIFY FULL CURE TIME HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
-	GRID LINES
X / XX	SECTION OR DETAIL CUT / SHEET NUMBER
X / XX	ELEVATION CUT / SHEET NUMBER
XXX'-XX"	ELEVATION CALLOUT
X	DRAWING REVISION NUMBER
	CURRENT REVISION CLOUD

SYMBOL	DESCRIPTION
	ROUGHENED SURFACE, INTENTIONALLY ROUGHEN TO 1/4" AMPLITUDE, UNO
	LOAD PROVIDED FOR SPECIALTY DESIGNER
1	KEY NOTE
	CAST-IN-PLACE CONCRETE
	STEP
	SLOPE

SYMBOL	DESCRIPTION
X	EXISTING GRID LINES
	EXISTING FRAMING (HALFTONE)
	NEW FRAMING
X'-XX"	DIMENSIONS TO EXISTING STRUCTURE, FIELD VERIFY (ITALICS)
X'-XX"	DIMENSIONS TO NEW STRUCTURE

NOTES:
1. ITEMS NOT DESIGNED BY M/M ARE SHOWN HALFTONED,
2. ITEMS INCLUDE:
   - EXISTING CONSTRUCTION
   - PERFORMANCE SPECIFIED ITEMS

ABBREVIATIONS

(E) or EXIST	Existing
/	Per
@	At
ADDNL	Additional
AFF	Above Finish Floor
ARCH	Architect or Architectural
B/ or BO	Bottom of
BLDG	Building
BM	Beam
BOS	Bottom of Steel
BOT or B	Bottom
BRG	Bearing
BTWN	Between
CG	Center of Gravity
CIP	Cast-In-Place
CL	Centerline
CLG	Ceiling
CLR	Clear
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
COORD	Coordinate
CSJ	Construction Joint
CTR(D)	Center(ed)
D or DL	Dead Load
db	Rebar Diameter
DIA OR Ø	Diameter
DIM	Dimension
DTL(s)	Detail(s)
DWG(s)	Drawing(s)
DWL(s)	Dowels(s)
EA	Each

EE	Each End
EF	Each Face
EJ	Expansion Joint
EL	Elevation
EMBED	Embedded
ENGR	Engineer
EOR	Engineer-of-Record
EQ	Equal
EQUIP	Equipment
ES	Each Side
EW	Each Way
EXP	Expansion
EXP ANCH	Expansion Anchor
EXT	Exterior
FAB	Fabricate
FF	Finished Floor
FND	Foundation
FO	Face of
FS	Far Side
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GC	General Contractor
GR BM	Grade Beam
HAS or HDAS	Headed Anchor Stud
HDAR	Headed Anchor Rod
HDG	Hot Dipped Galvanized
HK	Hook
HORIZ	Horizontal
HT	Height
INT	Interior
JT	Joint
k	Kip
L	Length or Live Load

LB(S)	Pound(s)
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC(s)	Location(s) or Locate
LONG	Longitudinal
LSH	Long Side Horizontal
LSV	Long Side Vertical
MAX	Maximum
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIN	Minimum
MISC	Miscellaneous
MNFR	Manufacturer
MTL	Metal
N	North
NO OR #	Number
NTS	Not to Scale
NWC	Normal Weight Concrete
O.F.	Outside Face
OAE	Or Approved Equivalent
OC	On Center
OD	Outside Diameter
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVS	Oversized
PAF	Powder Actuated Fastener
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PLF	Pounds Per Lineal Foot
PREFAB	Prefabricated
QTY	Quantity
RAD	Radius

RE: or REF	Refer to (Reference)
REINF	Reinforce(ing)(d)(ment)
REQD	Required
RO	Rough Opening
S	South
SC	Slip Critical
SCHED	Schedule
SECT	Section
SIM	Similar
SOG	Slab on Grade
SSL	Short-Slotted
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SYM	Symmetrical
T&B	Top and Bottom
T/ or T.O.	Top of
THK	Thick or Thickness
TOC	Top of Concrete
TOS	Top of Steel
TOW	Top of Wall
TRANS	Transverse
TYP	Typical
UNO	Unless Noted Otherwise
VERT.	Vertical
VIF	Verify in Field
W/	With
W/O	Without
WD	Width or Wood
WF	Wide Flange
WT	Weight
WxH	Width x Height

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

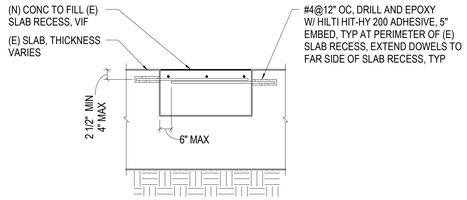
REVISIONS

#	DESCRIPTION	DATE

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STRUCTURAL NOTES AND QUALITY ASSURANCE

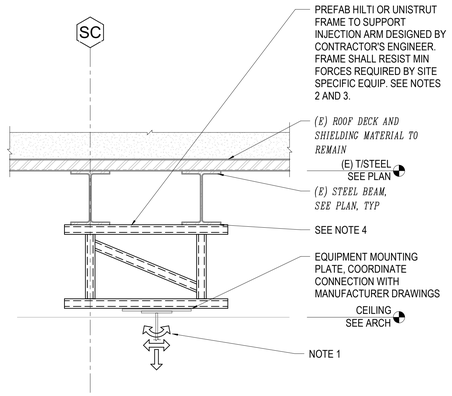
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4 TYPICAL SLAB INFILL DETAIL

3/4" = 1'-0"

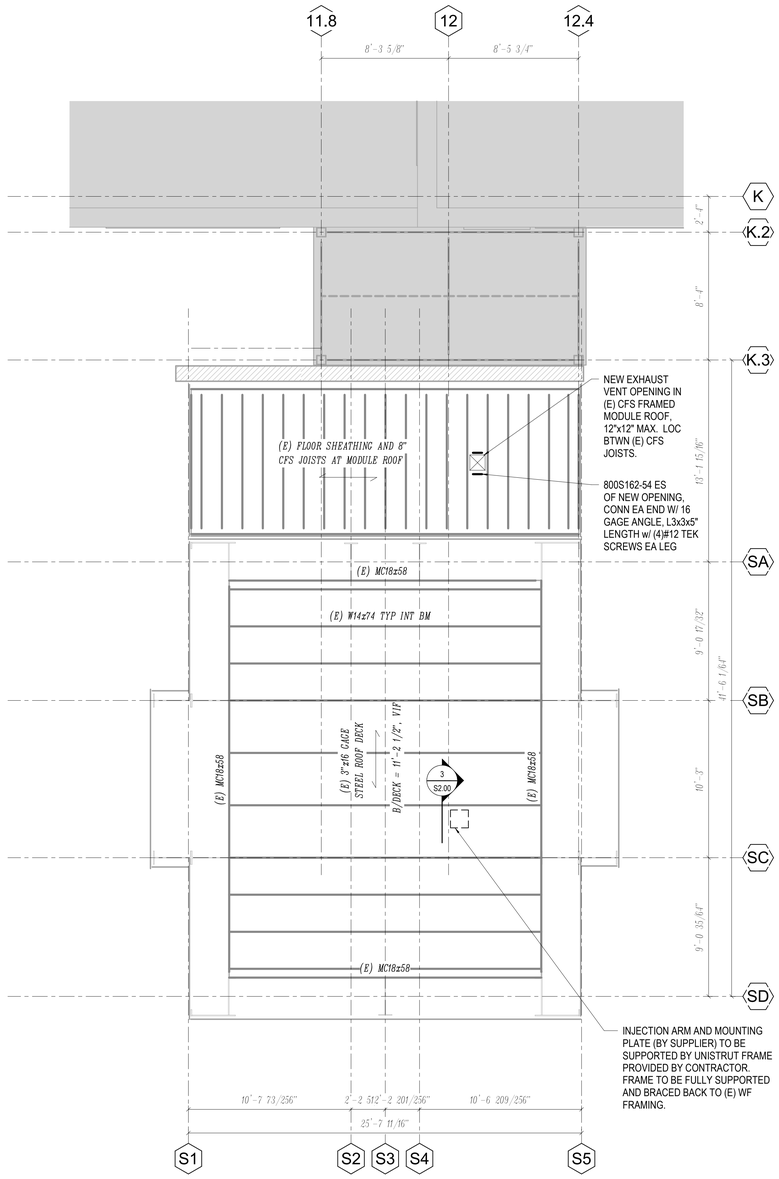


NOTES:

1. SEE SITE SPECIFIC DRAWINGS FOR OVERHEAD MEDICAL EQUIPMENT SUPPORT REQUIREMENTS AND DESIGN FORCES.
2. COORDINATE ABOVE CEILING SUPPORT FRAME LAYOUT AND LATERAL BRACING WITH SITE SPECIFIC DRAWINGS FOR EQUIPMENT AND MEP DRAWINGS.
3. THE CEILING FRAME IS A PERFORMANCE SPECIFIED DELEGATED DESIGN BY A REGISTERED ENGINEER IN THE STATE OF COLORADO. SEE SPECIFICATION 054500.
4. CONNECT CEILING FRAME TO STEEL BEAMS WITH CLAMPS OR OTHER SIMILAR NON-DESTRUCTIVE CONNECTION HARDWARE.
   A. DO NOT HANG SUPPORT FRAME FROM STEEL ROOF DECK.

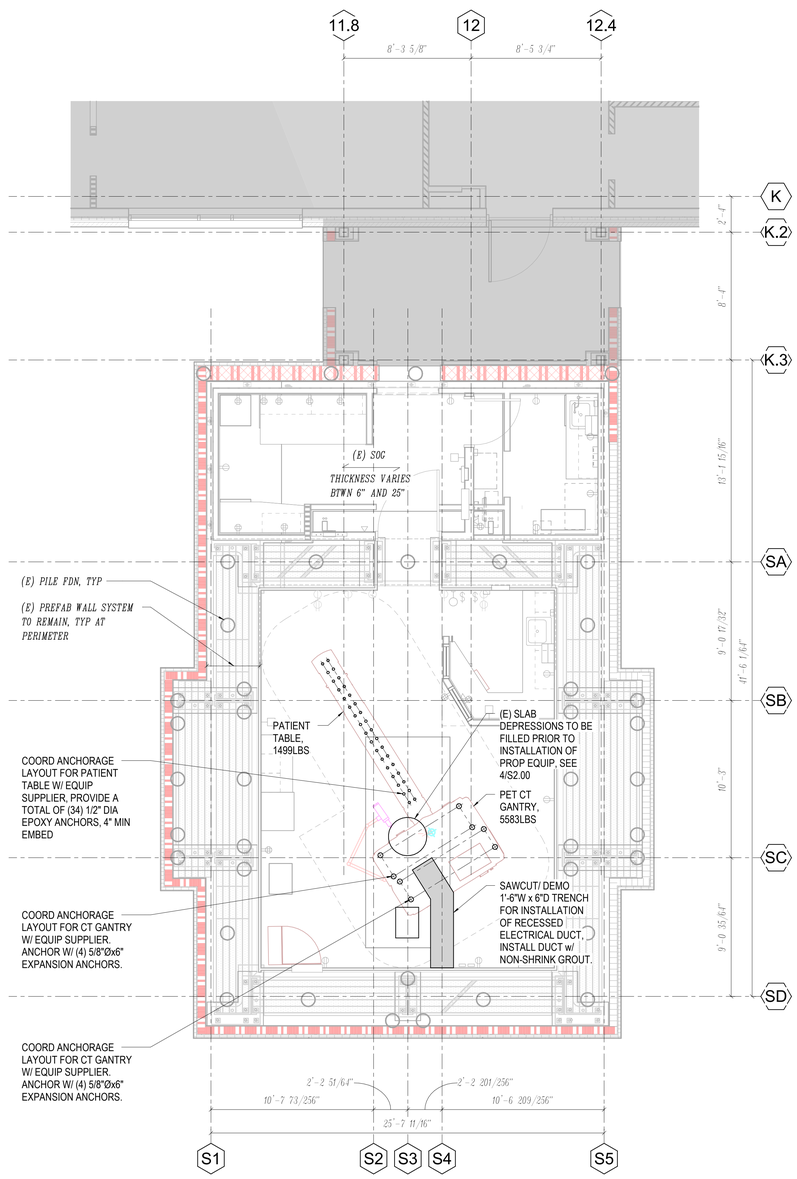
3 OVERHEAD MEDICAL EQUIPMENT SUPPORT

3/4" = 1'-0"



2 ROOF LEVEL FRAMING PLAN

1/4" = 1'-0"



1 LEVEL 1 FRAMING PLAN

1/4" = 1'-0"

PLAN NOTES

1. **GENERAL:**
   A. ALL EXISTING STRUCTURE TO REMAIN, UNLESS NOTED OTHERWISE.
   B. LEVEL 1 STRUCTURE IS CONCRETE SLAB-ON-GRADE WITH THICKENED AREAS PREVIOUSLY REQUIRED FOR LINEAR ACCELERATOR.
   C. EXISTING ROOF STRUCTURE CONSISTS OF METAL ROOF DECK SUPPORTED ON WF STEEL BEAMS AND COLUMNS.

2. **EQUIPMENT NOTES:**
   A. THE LOADING SHOWN FOR THE PROPOSED PET/CT MEDICAL EQUIPMENT IS BASED ON THE EQUIPMENT DRAWINGS PREPARED BY SIEMENS, TITLED COMMUNITY HOSPITAL WAREHOUSE AND DATED JANUARY 27, 2026. ALL EXISTING STRUCTURE HAS BEEN REVIEWED FOR SUPPORT OF THE LOADING DOCUMENTED AND NO MODIFICATIONS ARE REQUIRED OUTSIDE OF THOSE NOTED IN THESE DOCUMENTS.
      a. CONTRACTOR TO COORDINATE WITH SUPPLIER TO VERIFY MODIFICATIONS TO ANCHOR LAYOUT OR LOADING DUE TO SEISMIC REQUIREMENTS, SEE DESIGN CRITERIA.
      b. CONTRACTOR TO PROVIDE APPROVED GROUT MATERIAL FOR LEVELING BELOW THE MEDICAL EQUIPMENT AS REQUIRED IF EXISTING SLAB CONDITIONS DO NOT MEET THE SUPPLIER'S FLOOR REQUIREMENTS.
   B. SEE MEP DRAWINGS AND GENERAL NOTES FOR NEW OPENING REQUIREMENTS.

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81505

CONSTRUCTION DOCUMENTS

DATE 2/6/2026

REVISIONS

#	DESCRIPTION	DATE

SHEET TITLE

EQUIPMENT INSTALLATION PLANS

SHEET NUMBER

S2.00

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GENERAL NOTES - ALL HVAC SHEETS

A. ANY DISCREPANCY THAT PREVENTS THE CONTRACTOR FROM MEETING THE DESIGN INTENT OF THE DRAWINGS SHALL BE DOCUMENTED ON THE PROJECT RECORD DOCUMENTS AND BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.

B. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

C. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.

D. THE CONTRACTOR SHALL PREPARE A FULL SET OF COORDINATION DRAWINGS, SHOWING THE RELATIONSHIP OF ALL SYSTEMS TO BE INSTALLED. THESE DRAWINGS SHALL INDICATE SIZES, ELEVATIONS, AND EXACT LOCATIONS OF ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. THESE DRAWINGS SHALL BE COMPLETED PRIOR TO BEGINNING ANY WORK AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW. CONTRACTOR SHALL NOTE ANY ITEMS THAT PREVENT HIM FROM MEETING THE DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS ON THESE DRAWINGS.

E. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

F. COORDINATE THE EXACT LOCATION OF MECHANICAL EQUIPMENT AND DEVICES WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

G. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH ALL OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.

H. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.

I. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

J. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS.

L. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

M. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

N. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS, FLANGES, OR NIPPLES.

O. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH ALL OTHER TRADES.

P. CLIENT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.

Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS. THERMOSTATS, HUMIDISTATS, CARBON DIOXIDE SENSORS SHALL BE MOUNTED SUCH THAT THE TOP OF THE DEVICE IS AT 42"AFF, UNLESS OTHERWISE NOTED AND COORDINATED.

S. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

T. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALLS THAT EXTEND TO STRUCTURE. EACH HVAC DUCT OR PIPE PENETRATION THROUGH THESE WALLS SHALL BE INSTALLED AS SPECIFIED OR DETAILED. WHERE FLEXIBLE DUCT WOULD PENETRATE A WALL WHICH EXTENDS TO STRUCTURE, PROVIDE INSULATED RIGID DUCT EXTENDING 12" ON EITHER SIDE OF THE PARTITION.

U. ALL DEVIATIONS FROM SCHEDULED EQUIPMENT THAT RESULTS IN ADDITIONAL COST DUE TO LACK OF COORDINATION WITH DIMENSIONS, WEIGHTS, AND CONNECTION POINTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

V. DUCT SIZES ARE NET FREE AREA.

W. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AT INDOOR FACE OF LOUVERS, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT.

X. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.

Y. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED. INDICATED LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.

Z. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).

AA. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE UPSTREAM OF THE FITTING.

BB. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.

CC. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.

DD. SLOPE & ARRANGE CONDENSATE PIPING TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS.

EE. COORDINATE LOCATION OF ALL DUCT AND PIPING FLOOR SLEVE/CORE PENETRATIONS WITH STRUCTURAL DRAWINGS.

GENERAL NOTES - ALL PIPING SHEETS

A. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS SET OF PLANS. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.

B. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL WALL MOUNTED DEVICE (THERMOSTAT, HUMIDISTAT, CARBON DIOXIDE, ETC.) LOCATIONS.

C. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAV'S AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.

D. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

E. PROVIDE DRAIN PAN UNDER PIPES INSIDE ELECTRICAL AND COMMUNICATION ROOMS.

F. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.

G. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLASE TO MAIN AS POSSIBLE.

GENERAL NOTES - DEMOLITION

A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED.

B. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.

C. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

D. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

E. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

F. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH BUILDING SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH BUILDING REPRESENTATIVE.

G. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE BUILDING REPRESENTATIVE.

H. SEAL AIR TIGHT AND PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:

TO

- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERVED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
- A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED UNDER THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.

ABBREVIATION - MECHANICAL

(300)	CUBIC FFET OR AIR PER MINUTE OR GALLONS PER MINUTE	HV	HEATING AND VENTILATION
(E)	EXISTING TO REMAIN	HW	HOT WATER
(N)	NEW	HWR	HEATING WATER RETURN
(R)	EXISTING TO BE RELOCATED	HWS	HEATING WATER SUPPLY
(X)	EXISTING TO BE DEMOLISHED	HX	HEAT EXCHANGER
ABV	ABOVE	IBT	INVERTED BUCKET TRAP
AC	ABOVE CEILING	ID	INSIDE DIMENSION
ACC	AIR COOLED CHILLER	IDEC	INDIRECT EVAPORATIVE COOLER
ACD	AUTOMATIC CONTROL DAMPER	IN HG	INCHES MERCURY (PRESSURE)
AD	ACCESS DOOR	IN WC	INCHES WATER COLUMN (PRESSURE)
AFF	ABOVE FINISHED FLOOR	KKX	KITCHEN RANGE HOOD EXHAUST (RESIDENTIAL)
AHU	AIR HANDLING UNIT	KW	KILOWATT
AI	ANALOG INPUT	KWH	KILOWATT HOURS
AL	ACOUSTICAL LINING	KX	KITCHEN EXHAUST
AO	ANALOG OUTPUT	LAT	LEAVING AIR TEMPERATURE
ARCH	ARCHITECTURAL	LBS	POUNDS
ATC	AUTOMATIC TEMPERATURE CONTROL	LCA	LAB COMPRESSED AIR
B	BOILER	LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
BD	BALANCING DAMPER	LE	LAUNDRY EQUIPMENT
BDD	BACK DRAFT DAMPER	LHWC	LAB HEATING WATER
BF	BELOW FLOOR, BLIND FLANGE	LPR	LOW PRESSURE STEAM (CONDENSATE)
BFC	BELOW FINISHED CEILING	LPS	LOW PRESSURE STEAM
BG	BELOW GRADE	LRA	LOCK ROTOR AMPS
BHP	BRAKE HORSEPOWER	LTHWS	LOW TEMP. HEATING WATER SUPPLY
BMS	BUILDING MANAGEMENT SYSTEM	LTCWR	LOW TEMP. CHILLED WATER RETURN
BO	BLANK OFF	LTCWS	LOW TEMP. CHILLED WATER SUPPLY
BTU	BRITISH THERMAL UNIT	LWS	LOUVER WIRE SCREEN
BV	BUTTERFLY VALVE	LWT	LEAVING WATER TEMPERATURE
CA	COMBUSTION AIR	MA	MIXED AIR
CC	COOLING COIL	MAT	MIXED AIR TEMPERATURE
CD	CEILING DIFFUSER	MAX	MAXIMUM
CFF	CAP FOR FUTURE	MBH	THOUSAND BTU PER HOUR
CFM	CUBIC FEET PER MINUTE	MFG	MANUFACTURER
CG	CEILING GRILLE	MFS	MAXIMUM FUSE SIZE
CH	CHILLER	MIN	MINIMUM
CHR	CHILLED WATER RETURN	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHS	CHILLED WATER SUPPLY	MUA	MAKE-UP AIR UNIT
CLPR	CLEAN LOW PRESSURE RETURN (CONDENSATE)	MVD	MANUAL VOLUME DAMPER
CLPS	CLEAN LOW PRESSURE STEAM	MW	MAKE-UP WATER
COMP	COMPRESSOR	NC	NORMALLY CLOSED
CONV	CONVECTOR	NFA	NET FREE AREA
CRAC	COMPUTER ROOM UNIT	NIC	NOT IN THIS CONTRACT
CRU	CONDENSATE RETURN UNIT	NK	NECK
CT	COOLING TOWER	NO	NORMALLY OPEN
CU	CONDENSING UNIT	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OAHU	OUTSIDE AIR HANDLING UNIT
CWR	CONDENSER WATER RETURN	OAI	OUTSIDE AIR INTAKE
CWS	CONDENSER WATER SUPPLY	OBD	OPPOSED BLADE DAMPER
DB	DRY BULB	OD	OUTSIDE DIMENSION
DEC	DIRECT EVAPORATIVE COOLER	OSA	OUTSIDE AIR
DF	DUCT FURNACE	P	PUMP
DI	DIGITAL INPUT	PCWR	PRIMARY CHILLED WATER RETURN
DIA	DIAMETER	PCWS	PRIMARY CHILLED WATER SUPPLY
DN	DOWN	PD	PRESSURE DROP
DO	DIGITAL OUTPUT	PHC	PRE-HEAT COIL
DRX	CLOTHES DRYER EXHAUST	PHX	PLATE HEAT EXCHANGER
DS	DISCONNECT SWITCH	PRV	PRESSURE REDUCING VALVE
DX	DIRECT EXPANSION	PSI	POUNDS PER SQUARE INCH (GAUGE)
EA	EHXAUST AIR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
EC	ENTERING AIR TEMPERATURE	RA	RETURN AIR
ECH	ELECTRIC CABINET HEATER	RCA	RECIRCULATED AIR (RETURN)
EDB	ENTERING DRY BULB	RF	RETURN FAN
EDH	ELECTRIC DUCT HEATER	RH	RELATIVE HUMIDITY
EF	EXHAUST FAN	RHC	REHEAT COIL
EFF	EFFICIENCY	RLA	RELIEF AIR
EHC	ELECTRIC HEATING COIL	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATOR	SA	SUPPLY AIR
EOMD	END OF MAIN DRIP (STEAM)	SAD	SEE ARCHITECTURAL DRAWINGS
EUH	ELECTRIC UNIT HEATER	SCWR	SECONDARY CHILLED WATER RETURN
EWB	ENTERING WET BULB	SCWS	SECONDARY CHILLED WATER SUPPLY
EWT	ENTERING WATER TEMPERATURE	SD	SMOKE DAMPER
F	FILTER	SED	SEE ELECTRICAL DRAWINGS
FBO	FURNISHED BY OTHERS	SENS	SENSIBLE
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)	SF	SUPPLY FAN
FCC	FIRE CONTROL CENTER	SLA	SUPPLY LOW PRESSURE AIR
FCU	FAN COIL UNIT	SM	SHEET METAL
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR	SMA	SUPPLY MEDIUM PRESSURE AIR
FHX	FUME HOOD EXHAUST	SP	STATIC PRESSURE
FLA	FULL LOAD AMPS	SPD	SEE PLUMBING DRAWINGS
FLR	FLOOR	SQFT	SQUARE FEET
FMB	FILTER MIXING BOX	SS	STAINLESS STEEL
FOR	FUEL OIL RETURN	ST	SOUND TRAP
FOS	FUEL OIL SUPPLY	STP	STAIR PRESSURIZATION
FPB	FAN POWERED BOX	SV	SAFETY VALVE
FPI	FINS PER INCH	SX	SMOKE EXHAUST
FRE	FIRE RATED ENCLOSURE	TA	TRANSFER AIR
FSD	COMBINATION FIRE AND SMOKE DAMPER	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
FT	FEET	TF	TRANSFER FAN
FTR	FIN TUBE RADIATOR	TRD	TRANSFER DUCT
GC	GENERAL CONTRACTOR	TRG	TRANSFER GRILLE
GD	GREASE DUCT	TX	TOILET EXHAUST
GEF	GENERAL EXHAUST FAN	TYP	TYPICAL
GHWR	GLYCOL HEATING WATER RETURN	UFAD	UNDERFLOOR AIR DISTIBUTION
GHWS	GLYCOL HEATING WATER SUPPLY	UH	UNIT HEATER
GLY	GLYCOL	UON	UNLESS OTHERWISE NOTED
GPM	GALLONS PER MINUTE	VAR	VARIABLE
GSF	GENERAL SUPPLY FAN	VAV	VARIABLE AIR VOLUME
GX	GENERAL EXHAUST	VD	VOLUME DMAPER
H	HUMIDIFIER	VFD	VARIABLE FREQUENCY DRIVE
HC	HEATING COIL	VX	VAPOR HOOD EXHAUST
HP	HORSEPOWER	W/	WITH
HPC	HIGH PRESSURE RETURN (CONDENSATE)	WB	WET BULB
HPS	HIGH PRESSURE STEAM	WG	WATER GUAGE
HR	HOUR	WH	WATER HEATER
HRU	HEAT RECOVERY UNIT	WHP	WATER-SOURCE HEAT PUMP
HTP	HEAT PUMP	WMS	WIRE MESH SCREEN
HTW	HEATWHEEL	WO-SIZE	WALL OPENING - [SIZE]
		°F	DEGREES FAHRENHEIT
		°C	DEGREES CELSIUS

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	GRAND JUNCTION, COLORADO
APPLICABLE CODES:	
BUILDING	2024 IBC
MECHANICAL	2024 IMC
PLUMBING	2024 IPC
ENERGY	2021 IECC
ELECTRICAL	2023 NEC
FIRE	2024 IFC
LATITUDE:	
DEG. N. LAT.	39°61'
ELEVATION:	
FT. ABOVE SEA LEVEL	4583

MECHANICAL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
##/XX	EQUIPMENT TAG (XX = EQUIPMENT ABBREVIATION, ## = MARK)
##/AA-BB XX/CC-DD	EQUIPMENT TAG (XX = EQUIPMENT ABBREVIATION, ## = MARK) (AA = FAN BOX SIZE, BB = MAX CFM VALUE, CC = COIL GPM/KW, DD = MIN CFM VALUE)
##/XX	DIFFUSER TAG (XX = SCHEDULE DESIGNATION, ## = CFM VALUE)
	VAV BOX - HW
	VAV BOX - EH
	VAV UNIT - PARALLEL POWERED
	FAN COIL UNIT HW AND CW
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY SLOT DIFFUSER
	RETURN SLOT GRILLE
	SUPPLY, RETURN, OR EXHAUST SIDEWALL DIFFUSER/GRILLE
	FLEXIBLE ROUND DUCT
	FLEXIBLE RECTANGULAR DUCT
	RETURN/EXHAUST AIR FLOW ARROW
	SUPPLY AIR FLOW ARROW
	SUPPLY RECTANGULAR DUCT GOING DOWN
	RETURN RECTANGULAR DUCT GOING DOWN
	EXHAUST RECTANGULAR DUCT GOING DOWN
	SUPPLY RECTANGULAR DUCT GOING UP
	RETURN RECTANGULAR DUCT GOING UP
	EXHAUST RECTANGULAR DUCT GOING UP
	SUPPLY ROUND DUCT GOING DOWN
	RETURN ROUND DUCT GOING DOWN
	SUPPLY ROUND DUCT GOING DOWN
	SUPPLY ROUND DUCT GOING UP
	RETURN ROUND DUCT GOING UP
	EXHAUST ROUND DUCT GOING UP
	PIPE GOING DOWN
	PIPE TEE GOING DOWN
	PIPE GOING UP
	PIPE TEE GOING UP
	AIR VALVE FOR SUPPLY, RETURN, AND EXHAUST
	MANUAL DAMPER
FD	SMOKE DAMPER
FD	FIRE DAMPER
FSD	FIRE AND SMOKE DAMPER
M	MOTORIZED DAMPER
AM	AIR FLOW MEASURING DAMPER
BD	BIOSEAL DAMPER
H	DAMPER
	DUCT SMOKE DETECTOR
	SOUND ATTENUATOR
	REHEAT COIL
T	THERMOSTAT
H	HUMIDISTAT
CO2	CO2 SENSOR
	PRESSURE MONITOR
	PRESSURE SENSOR
	FREESTANDING HORIZONTAL EXPANSION TANK
	FREESTANDING VERTICAL EXPANSION TANK
	INLINE EXPANSION TANK
	CHEMICAL TREATMENT BARREL
	CHILLED BEAM
	AIR HANDLING UNIT
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
R	PRESSURE REGULATING VALVE
	STEAM TRAP - INVERTED VALVE

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Suite 2-1000
Denver, CO 80222
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WSP Project Number: US00051095.3525

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

100% CONSTRUCTION DOCUMENT

DATE 02/06/2026

REVISIONS

#	DESCRIPTION	DATE

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: _____
Eng. Reg. No.: _____
Date: _____

SHEET TITLE

GENERAL INFORMATION - MECHANICAL

SHEET NUMBER

M0.01

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MASTER MECHANICAL DRAWING SPECIFICATIONS

I GENERAL CONDITIONS:

A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

C. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE UL. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.

D. CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.

F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" APPROVAL BY THE ENGINEER. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR APPROVAL.

G. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.

H. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

I. DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS, WITHIN 42 INCHES IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36 INCHES HORIZONTALLY OF SAME SPACE.

J. PROVIDE SNAP-ON OR ADHESIVES LABELS INDICATING CHILLED OR HOT WATER SUPPLY AND RETURN, CONDENSATE DRAINAGE, DOMESTIC HOT AND COLD WATER, MEDICAL GASES, ETC.

II MECHANICAL DEMOLITION

A. UNLESS NOTED OTHERWISE, THE MECHANICAL DEMOLITION SHALL BE CARRIED OUT TO THE EXTENT THAT THE FLOORS ARE RETURNED TO THE ORIGINAL BASE BUILDING CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN ORDER TO ACCURATELY DETERMINE THE EXTENT OF THE WORK UNDER THIS SECTION.

B. UNLESS NOTED OTHERWISE, REMOVE EXISTING INTERIOR DIFFUSERS, GRILLES, AND DUCTWORK AS INDICATED PLANS. EXISTING DIFFUSERS AND GRILLES MAY BE REUSED IF THEY MEET THE SCHEDULED SPECIFICATIONS. EXISTING BASE BUILDING SLOT DIFFUSERS ARE TO REMAIN EXCEPT WHERE INDICATED ON PLANS.

C. EXISTING THERMOSTATS AND/OR TEMPERATURE SENSORS ARE TO BE RELOCATED AND REUSED IF IN GOOD WORKING CONDITION.

D. EXISTING DUCTWORK SHOWN ON PLANS MAY NOT EXACTLY MATCH THE ACTUAL FIELD CONDITIONS. IT IS NOT NECESSARY TO REWORK THE DUCTWORK IN ORDER TO MATCH WHAT IS DEPICTED ON THE PLANS. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK ROUTING AND LOCATIONS AND MAKE ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS WITH NEW DUCTWORK, EQUIPMENT, LIGHT FIXTURES, ETC.

III PRODUCTS, EQUIPMENT AND EXECUTION:

A. REFRIGERANT PIPING SHALL BE AMERICAN MANUFACTURED TYPE "ACR" COPPER PIPE MANUFACTURED IN ACCORDANCE WITH ASTM B88 AND ANSI BP.1 REFRIGERATION INDUSTRY STANDARDS. FITTINGS SHALL BE WROUGHT COPPER PRESSURE TYPE AND ELBOWS SHALL BE LONG RADIUS TYPE. PIPE AND FITTINGS SHALL BE ASSEMBLED WITH SILVER BRAZING AND PURGED WITH NITROGEN DURING BRAZING. PIPING SHALL BE INSTALLED TO ALLOW FOR EXPANSION AND CONTRACTION USING OFFSETS, SWING JOINTS, ETC. AS SHOWN AND/OR REQUIRED TO PREVENT UNDUE STRAIN ON THE PIPING.

1. SOLENOID AND HOT GAS BYPASS VALVES SHALL BE R/S FLO-CON SPORLAN.

2. FILTER-DRIERS SHALL BE SPORLAN REPLACEABLE CORE "CATCH-ALLS"

3. SIGHT GLASS SHALL BE SPORLAN "SEE-ALL".

4. AUXILIARY SIDE CONNECTIONS SHALL BE REQUIRED FOR HOT GAS BY-PASS AND SHALL BE SPORLAN, AND INSTALLED BETWEEN THE ORIFICE AND THE DISTRIBUTOR.

5. THERMOSTATIC EXPANSION VALVES WITH 10 DEGREES SUPERHEAT SHALL BE SPORLAN AND SIZED AND SELECTED FOR USE WITH THE EVAPORATOR SERVED AT THE DESIGN OPERATING PRESSURE.

6. SUCTION LINE ACCUMULATORS SHALL BE EQUAL TO MODEL S-7400 AS MANUFACTURED BY AC&R COMPONENTS, INC.

7. SHUT-OFF, CHECK, SOLENOID AND RELIEF VALVES SHALL BE AS MANUFACTURED BY THE HENRY VALVE COMPANY.

B. PIPE, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED FROM STRUCTURE WITH THE USE OF APPROVED TYPE CLEVIS, TRAPEZE HANGERS OR FLOOR STANDS WITH SPACING AS FOLLOWS:

1. STEEL PIPE OR COPPER TUBING - 1-1/2" OR LESS, 6 FOOT INTERVALS.

2. CAST IRON - ONE (1) HANGER PER LENGTH OF PIPE AND NOT EXCEEDING 10'-0" O.C.

3. FITTINGS - WITHIN 2'-0" OF EACH CHANGE OF DIRECTION.

C. INSULATION SHALL BE PROTECTED AT HANGERS BY A SECTION OF CALCIUM SILICATE PIPE INSULATION AND A 12" LONG HALF-ROUND SHEET METAL SHIELD ON THE OUTSIDE OF THE INSULATION. EXTEND PIPING INSULATION FULL THICKNESS WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PENETRATIONS.

D. PROVIDE AND INSTALL UNIONS AT PROPER POINTS TO PERMIT REMOVAL OF A PIPE, EQUIPMENT, ETC., WITHOUT INJURY TO OTHER PARTS OF THE SYSTEM AND TO PREVENT CORROSION DUE TO ELECTROLYSIS. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT ACCESS FOR SERVICE WITHOUT DISASSEMBLY. UNIONS SHALL BE DIELECTRIC WHERE DISSIMILAR MATERIALS OCCUR. PRESSURE RATINGS SAME AS FITTINGS.

E. CONDENSATE DRAIN PIPING, AUXILIARY DRAIN PIPING AND ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 1" THICK OWENS-CORNING FIBERGLASS 25 ASJ/SSL OR EQUAL. AUXILIARY DRAIN PAN SHALL BE INSULATED WITH 3/8" THICK ARMAFLEX SHEET INSULATION.

F. PROVIDE INSULATION PRODUCTS MANUFACTURED BY JOHNS-MANVILLE, OWENS-CORNING, ARMSTRONG AND CERTAINTEED. FIBERGLASS PIPE INSULATION SHALL BE ASTM C547-77, CLASS 1. PROVIDE BANDS, WIRES, AND CEMENT AS RECOMMENDED BY INSULATION MANUFACTURER FOR THE APPLICATIONS INDICATED. FLEXIBLE FIBERGLASS DUCTWORK INSULATION SHALL BE ASTM C553-70, TYPE I, CLASS B3.

1. PROVIDE COMPOSITE INSULATION (INSULATION JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVE) WITH FLAME-SPREAD RATINGS OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM K04 (HFFA 255) METHOD.

2. MAINTAIN INTEGRITY OF VAPOR BARRIER JACKETS ON PIPE AND DUCTWORK INSULATION, AND PROTECT TO PREVENT PUNCTURE OR OTHER DAMAGE. SEAL OPEN ENDS OF INSULATION WITH MASTIC. SECTIONALLY SEAL ALL BUTT ENDS OF CHILLED WATER INSULATION OF FITTINGS WITH WHITE VAPOR BARRIER COATING. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED. INSTALL PROTECTIVE METAL SHIELDS AND FOAM GLASS INSERTS WHERE PIPE HANGERS BEAR ON OUTSIDE OF INSULATION.

G. RECTANGULAR "LOW PRESSURE" SHEET METAL DUCT SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS FOR 1.0" W.C. AND FOR THE FIRST 10 TO 15 FEET DOWNSTREAM OF A TERMINAL UNIT (FP/VAV OR VAV) SHALL HAVE AN INTERNAL DUCT LINING EQUAL TO JOHNS-MANVILLE PERMACOTE LINACOUSTIC, 1" THICK, 1.5 LB. DENSITY DUCT LINER. (DUCTS FOR MEDICAL WORK SHALL NOT BE LINED, BUT WILL BE WRAPPED.)

H. ROUND "LOW PRESSURE" DUCT FITTINGS SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA RECOMMENDATIONS FOR 0.5" W.C.

I. RECTANGULAR AND ROUND "PRIMARY AIR" SHEET METAL DUCT AND FITTINGS SHALL BE FABRICATED OF CONTINUOUS HOT DIP MILL GALVANIZED MINIMUM 26 GAUGE STEEL SHEETS AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS FOR 3.0" W.C., AND RECTANGULAR DUCT SHALL HAVE AN INTERNAL DUCT LINING EQUAL TO JOHNS-MANVILLE PERMACOTE LINACOUSTIC, 1" THICK, 1.5 LB. DENSITY DUCT LINER (DUCTS FOR MEDICAL WORK SHALL NOT BE LINED, BUT WILL BE WRAPPED). CONSTRUCTION METHODS:

1. RECTANGULAR - DUCTMATE SYSTEM

2. ROUND - SPIRAL DUCT SYSTEM

J. ROUND DUCTS AND UNLINED RECTANGULAR DUCTS SHALL BE INSULATED WITH 3/4 POUND PER CUBIC FOOT MINIMUM DENSITY, 2" THICK, COMMERCIAL GRADE, OWENS-CORNING FIBERGLASS FOIL BACKED ALL SERVICE DUCT WRAP, OR EQUAL.

K. FLEXIBLE DUCTS SHALL BE FLEXMASTER TYPE 8M, THERMAFLEX MKE OR WIREMOLD WK. FLEXIBLE DUCTS SHALL BE LISTED AS U.L. 181 CLASS (1) AIR DUCT AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B.

L. CONTRACTOR SHALL BALANCE THE HVAC SYSTEMS FOR DESIGNATED AIR AND WATER QUANTITIES AND SHALL BE N.E.B.B. OR A.A.B.C. APPROVED. SUBMIT REPORT ON NEBB, AABC, OR SMACNA FORMS FOR APPROVAL BY THE ENGINEER. EXTENT OF BALANCING WORK TO INCLUDE REBALANCING OF EXISTING SUPPLY AND EXHAUST SYSTEMS AS REQUIRED TO ACHIEVE DESIGN CFM ON SUBJECT PROJECT.

M. DUCT ACCESS DOORS: PROVIDE RIGID AND CLOSE FITTING DOORS OF GALVANIZED STEEL WITH SEALING GASKETS AND QUICK FASTENING LOCKING DEVICES. FOR INTERNALLY LINED OR INSTALLED DUCTWORK, INSTALL MINIMUM ONE INCH THICK INSULATION WITH SHEET METAL COVER. INSTALL AT EACH FIRE DAMPER. DOORS TO BE EQUAL TO FLEXMASTER " THE INSPECTOR SERIES."

N. FURNISH AND INSTALL SMOKE, FIRE AND/OR FIRE/SMOKE DAMPERS WHERE SHOWN ON THE DRAWINGS, AND REQUIRED BY THE GOVERNING AUTHORITY. DAMPERS SHALL BE INSTALLED AS RECOMMENDED BY SMACNA AND COMPLY WITH U.L. AND LOCAL ORDINANCES AS REQUIRED BY THE GOVERNING AUTHORITY.

O. "VARIABLE-VOLUME" AND "CONSTANT-VOLUME" SINGLE DUCT TERMINAL BOX SHALL BE MEDIUM PRESSURE, VARIABLE AIR VOLUME, SINGLE DUCT, PRESSURE INDEPENDENT TERMINAL UNIT WITH 2 P.C.F. DENSITY MINIMUM INSULATED CASING AND FLOW CONTROLLER. VARIABLE VOLUME TERMINAL BOXES SHALL BE ENVIRO-TEC SSD-11, TITUS ESV-3000, NAILOR OR TEMPMASTER.

P. FAN COIL UNITS (DX/ELECTRIC):

1. CABINET SHALL BE FABRICATED OF GALVANIZED STEEL WITH REMOVABLE PANELS FOR INSTALLATION AND MAINTENANCE. THE ENTIRE INTERIOR OF THE CABINET HALL BE INSULATED WITH ONE (1) INCH THICK GLASS FIBER NEOPRENE INSULATION.

2. THE COILS SHALL BE COPPER TUBES WITH ALUMINUM FINS.

3. THE DRAIN PAN SHALL BE GALVANIZED METAL AND FULLY INSULATED TO ELIMINATE CONDENSATE FROM FORMING. PROVIDE AUXILIARY DRAIN PANS UNDER ENTIRE UNIT.

4. FAN WHEELS SHALL BE OF THE FORWARD CURVED BLADE CENTRIFUGAL TYPE WITH UBLE INLET AND MOUNTED ON A SOLID STEEL SHAFT. MOTORS SHALL BE EQUIPPED TH PSC AND MULTI-SPEED TAPS.

5. FAN-COILS SHALL BE FURNISHED WITH 1" THICK FARR 30/30 FILTERS.

6. CAPACITY AND LOCATIONS SHALL BE INDICATED ON THE DRAWINGS WITH A MINIMUM 1.0" E.S.P. WHICH INCLUDES FILTERS.

7. UNITS SHALL BE McQUAY, CARRIER, TRANE, YORK OR LENNOX AND EQUAL TO McQUAY MODEL EBM FAN COIL UNITS.

Q. AIR COOLED CONDENSING UNIT:

1. FURNISH AND INSTALL WHERE INDICATED ON PLANS AIR-COOLED CONDENSING UNITS. THE UNIT SHALL CONTAIN SUFFICIENT REFRIGERANT (R-22) FOR COMPLETE SYSTEM AND BE EQUIPPED WITH REFRIGERANT LINE FITTINGS WHICH PERMIT MECHANICAL OR SWEAT CONNECTION. BRASS SERVICE VALVES WITH FITTINGS AND GAGE PORTS SHALL BE LOCATED ON EXTERIOR OF UNIT.

2. COMPRESSOR SHALL BE OF THE WELDED HERMETIC TYPE WITH INTERNAL VIBRATION ISOLATION AND SHALL BE LOCATED IN AN ISOLATED SECTION OF UNIT. WARRANTY SHALL BE STANDARD ONE-YEAR PARTS AND LABOR AND EXTENDED WARRANTY OF FOUR YEARS FOR THE COMPRESSOR.

3. CONTROLS SHALL BE FACTORY WIRED AND PLACED IN A LOCATION READILY ACCESSIBLE FROM TOP OF UNIT. COMPRESSOR MOTOR SHALL HAVE BOTH THERMAL AND CURRENT SENSITIVE OVERLOAD DEVICES.

4. CONDENSER SHALL BE CONSTRUCTED WITH ALUMINUM FINS MECHANICALLY BONDED TO NONFERROUS TUBING. CONDENSER FAN SHALL BE PROPELLER TYPE, DIRECT DRIVEN, AND ARRANGED FOR VERTICAL AIR DISCHARGE. MOTOR SHALL BE FACTORY LUBRICATED, TOTALLY ENCLOSED AND INHERENTLY PROTECTED.

5. UNITS SHALL INCLUDE CRANKCASE HEATER, LOW AMBIENT CONTROL TO 0 DEGREE F, ANTI-CYCLE TIME DELAY RELAY, INDOOR FAN RELAY, THERMOSTAT WITH SUBBASE, LOW-VOLTAGE TRANSFORMER, LIQUID-LINE FILTER DRIER, SUCTION ACCUMULATOR, SUCTION LINE CONNECTION ADAPTER AND SINGLE POINT POWER CONNECTION.

6. CAPACITY OF UNITS SHALL BE AS SCHEDULED ON THE DRAWINGS. UNITS SHALL BE CARRIER, TRANE, YORK, LENNOX, OR McQUAY.

R. MOTOR STARTER/DISCONNECT:

1. MOTOR STARTER/DISCONNECT SWITCH FOR 3/4 HP, 3 PHASE MOTORS AND LARGER SHALL BE ACROSS-THE-LINE NON-REVERSING COMBINATION STARTERS WITH FUSIBLE DISCONNECT SWITCH TYPE RATED IN ACCORDANCE WITH NEMA STANDARDS, SIZES AND HORSEPOWER RATINGS. UNITS SHALL BE MOUNTED IN NEMA 1 ENCLOSURES WHERE INSTALLED INDOORS, AND NEMA 4 ENCLOSURES WHERE INSTALLED OUTDOORS. MINIMUM SIZE SHALL BE NEMA SIZE 1.

a. OVERLOAD RELAYS OF THE MELTING ALLOY TYPE SHALL BE PROVIDED IN ALL PHASES. THERMAL UNITS SHALL BE OF ONE-PIECE CONSTRUCTION AND INTERCHANGEABLE.

b. STARTERS SHALL BE EQUIPPED WITH ONE SET OF AUXILIARY CONTACTS AND BE SUITABLE FOR THE ADDITION OF AT LEAST THREE EXTERNAL ELECTRICAL INTERLOCKS OF ANY ARRANGEMENT NORMALLY OPEN OR NORMALLY CLOSED.

c. ALL MAGNETIC STARTERS WITH "HAND-OFF-AUTO" SELECTOR SWITCH AND PILOT LIGHT SHALL BE EQUAL TO SQUARE D CLASS 9538 OR SIEMENS CLASS SCF WITH MELTING ALLOY OVERLOAD RELAYS AND FOR EACH PHASE, AND RED PILOT LIGHT IN COVER OF GENERAL PURPOSE ENCLOSURE. COIL VOLTAGE SHALL BE 120 VOLT AND STARTER SHALL HAVE A CONTROL VOLTAGE TRANSFORMER.

d. PUSH BUTTON STATIONS AND/OR HAND-OFF-AUTOMATIC SWITCHES SHALL BE REMOTE LOCATED AND WIRED UNDER THIS SECTION WHERE SO SHOWN OR SCHEDULED ON THE DRAWINGS.

2. MOTOR STARTER/DISCONNECT SWITCH FOR SINGLE PHASE MOTORS 1 H.P. AND SMALLER SHALL BE COMBINATION STARTER/TOGGLE SWITCH IN ACCORDANCE WITH NEMA STANDARDS. UNITS SHALL BE SUPPLIED WITH HEAVY DUTY POWER RELAYS. ALL UNITS MOUNTED INDOORS SHALL BE IN NEMA 1 ENCLOSURES, AND WHERE INSTALLED OUTDOORS SHALL BE IN NEMA 4 ENCLOSURES. MINIMUM SIZE SHALL BE NEMA SIZE 0.

a. UNITS SHALL BE EQUAL TO SIEMENS CLASS MSF AND TYPE SRD POWER RELAYS WITH ENCLOSURES.

S. TEMPERATURE CONTROLS:

1. ALL TEMPERATURE CONTROLS NECESSARY FOR THE RENOVATION AND FINISH-OUT OF THE SPACE SHALL COMPLY TO THE BASE BUILDING SYSTEM AND CONTROL SPECIFICATIONS. BUILDING STANDARD CONTROL SYSTEM COMPONENTS SHALL BE UTILIZED.

2. NEW THERMOSTATS OR SENSORS SHALL MATCH THE EXISTING THERMOSTATS OR SENSORS.

3. ALL CONTROL WIRING AND POWER WIRING FOR CONTROLS SHALL BE BY THE CONTROLS SUB-CONTRACTOR.

4. TERMINAL UNITS, FAN-COIL UNITS AND MOTORIZED SUPPLY AIR DAMPERS SHALL BE CONTROLLED BY ROOM [THERMOSTATS PIPED WITH MAIN CONTROL PRESSURE AND BRANCH PRESSURE FROM THERMOSTAT] [SENSORS WITH TWISTED PAIR, PLENUM RATED CABLE FROM SENSORS] TO OPERATORS, CONTROL VALVES, ETC.

5. THE FAN COIL UNITS SHALL BE CONNECTED TO THE BASE BUILDING ENERGY MANAGEMENT SYSTEM FOR START AND STOP SCHEDULES. [THE CONTROL PANEL IS LOCATED IN THE MECHANICAL ROOM.] THE AUXILIARY CONTACTS IN THE STARTER/DISCONNECTS SHALL BE USED TO AUTOMATE THE START AND STOP FUNCTIONS.

6. AT THE COMPLETION OF CONSTRUCTION, ALL NEW AND EXISTING THERMOSTATS AND SENSORS SHALL BE CALIBRATED.

T. TEST AND BALANCE:

1. THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT CERTIFIED AIR BALANCE FIRM TO PERFORM THE TESTING AND BALANCING AND PREPARE REPORTS TO THE GENERAL CONTRACTOR, IF THE MECHANICAL CONTRACTOR IS NEBB CERTIFIED, THEY CAN BALANCE THE SYSTEM.

2. TESTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND IN ACCORDANCE WITH THE ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, SECOND EDITION, 1974, OR NATIONAL ENVIRONMENTAL BALANCING BUREAU STANDARDS.

3. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES IN THE OPERATION OF FACTORY SET VAV UNITS.

4. READINGS AND TEST OF DIFFUSERS, GRILLES AND REGISTERS SHALL INCLUDE DESIGN, INITIAL TEST, AND FINAL ADJUSTED FPM VELOCITY AND CFM. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE BALANCED BY A HOOD THAT HAS BEEN CALIBRATED, INCLUDING A MANOMETER, AND PILOT TUBE READINGS SHALL BE TAKEN TO ESTABLISH TOTAL CFM FLOW IN ALL MAIN DUCTS. DIRECT READING INSTRUMENTS SUCH AS VELOMETERS AND ANEMOMETERS MAY BE USED AT TERMINAL UNITS.

U. VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS

1. PERFORMANCE REQUIREMENTS

A. DELEGATED DESIGN: DESIGN SUPPORTS FOR VIBRATION AND SEISMIC CONTROLS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

1. DO NOT USE MORE THAN ONE PRE-APPROVED SEISMIC-FORCE RESISTANCE SYSTEM ON ANY SINGLE RUN OF PIPE, DUCT OR CONDUIT. MIXING OF MULTIPLE PRE-APPROVED SYSTEMS IS NOT ACCEPTABLE.

B. SEISMIC-RESTRAINT LOADING: IN PREPARATION OF DELEGATED DESIGN, UTILIZE SEISMIC FORCES AS DESCRIBED IN ASCE 7-16 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" AS PUBLISHED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS, UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.

1. SEISMIC DESIGN CLASS AS DEFINED IN THE IBC.

C. IN SUBMITTAL REVIEW CONFERENCE: AT TIME OF DELEGATED DESIGN SHOP DRAWING SUBMISSION, SCHEDULE A SUBMITTAL REVIEW CONFERENCE WITH THE ARCHITECT AND STRUCTURAL ENGINEER-OF-RECORD FOR THE PROJECT. THE PURPOSE OF THIS CONFERENCE IS TO REVIEW ATTACHMENT LOCATIONS AND INSURE SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST THE LOADS, MAINTAIN STABILITY OR TO MEET OTHER INSTALLATION REQUIREMENTS OF A PRE-APPROVED SYSTEM HAVE BEEN ACCOUNTED FOR IN THE STRUCTURAL ENGINEER-OF-RECORD'S DESIGN.

2. SEISMIC-RESTRAINT DEVICE INSTALLATION

A. EQUIPMENT AND HANGER RESTRAINTS:

1. INSTALL RESTRAINED ISOLATORS AS REQUIRED BY DELEGATE DESIGN CALCULATIONS.

2. INSTALL RESILIENT, BOLT-ISOLATION WASHERS ON EQUIPMENT ANCHOR BOLTS WHERE CLEARANCE BETWEEN ANCHOR AND ADJACENT SURFACE EXCEEDS 0.125 INCH (3.2 MM).

3. INSTALL SEISMIC-RESTRAINT DEVICES USING METHODS APPROVED BY AN AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION PROVIDING REQUIRED SUBMITTALS FOR COMPONENT.

B. INSTALL BUSHING ASSEMBLIES FOR MOUNTING BOLTS FOR WALL-MOUNTED EQUIPMENT, ARRANGED TO PROVIDE RESILIENT MEDIA WHERE EQUIPMENT OR EQUIPMENT-MOUNTING CHANNELS ARE ATTACHED TO WALL.

C. ATTACHMENT TO STRUCTURE: IF SPECIFIC ATTACHMENT IS NOT INDICATED, ANCHOR BRACING TO STRUCTURE AT FLANGES OF BEAMS, AT UPPER TRUSS CHORDS OF BAR JOISTS, OR AT CONCRETE MEMBERS.

D. DRILLED-IN ANCHORS:

1. IDENTIFY POSITION OF REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO DRILLING HOLES FOR ANCHORS. DO NOT DAMAGE EXISTING REINFORCING OR EMBEDDED ITEMS DURING CORING OR DRILLING. NOTIFY THE STRUCTURAL ENGINEER IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING. LOCATE AND AVOID PRESTRESSED TENDONS, ELECTRICAL AND TELECOMMUNICATIONS CONDUIT, AND GAS LINES.

2. DO NOT DRILL HOLES IN CONCRETE OR MASONRY UNTIL CONCRETE, MORTAR, OR GROUT HAS ACHIEVED FULL DESIGN STRENGTH.

3. WEDGE ANCHORS: PROTECT THREADS FROM DAMAGE DURING ANCHOR INSTALLATION. HEAVY-DUTY SLEEVE ANCHORS SHALL BE INSTALLED WITH SLEEVE FULLY ENGAGED IN THE STRUCTURAL ELEMENT TO WHICH ANCHOR IS TO BE FASTENED.

4. ADHESIVE ANCHORS: CLEAN HOLES TO REMOVE LOOSE MATERIAL AND DRILLING DUST PRIOR TO INSTALLATION OF ADHESIVE. PLACE ADHESIVE IN HOLES PROCEEDING FROM THE BOTTOM OF THE HOLE AND PROGRESSING TOWARD THE SURFACE IN SUCH A MANNER AS TO AVOID INTRODUCTION OF AIR POCKETS IN THE ADHESIVE.

5. SET ANCHORS TO MANUFACTURER'S RECOMMENDED TORQUE, USING A TORQUE WRENCH.

6. INSTALL ZINC-COATED STEEL ANCHORS FOR INTERIOR AND STAINLESS-STEEL ANCHORS FOR EXTERIOR APPLICATIONS.

IV RECORDS FOR OWNER:

A. CONTRACTOR SHALL KEEP A CLEAN SET OF DRAWINGS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN THESE DRAWINGS IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITIES AND SHALL WITH HIS REQUEST FOR FINAL PAYMENT, TURN OVER A CLEAN, NEATLY MARKED SET OF 2 MIL REPRODUCIBLE MYLARS SHOWING "AS INSTALLED" WORK TO THE ARCHITECT FOR SUBSEQUENT REVIEW AND TRANSMITTAL TO THE OWNER. CONTRACTOR SHALL NOTE ALL CONSTRUCTION CHANGES, DATE EACH SHEET AND LABEL "AS-BUILTS" IN THE REVISION BLOCK ON THE DRAWINGS. CONTRACTOR SHALL ALSO FURNISH ONE (1) SET OF BLUELINE PRINTS FROM THE "AS-BUILTS" MYLARS.

B. IN ADDITION TO THE ABOVE, CONTRACTOR SHALL ACCUMULATE DURING THE JOB'S PROGRESS, THE FOLLOWING DATA, IN TRIPLICATE, PREPARED IN A NEAT BROCHURE OR PACKET FOLDER AND TURNED OVER TO THE ARCHITECT FOR REVIEW AND SUBSEQUENT DELIVERY TO THE OWNER.

1. ALL WARRANTIES AND GUARANTEES AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND MATERIAL COVERED BY THE CONTRACT INCLUDING THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF THE MANUFACTURER'S REPRESENTATIVE.

2. APPROVED FIXTURE BROCHURES, WIRING DIAGRAMS AND CONTROL DIAGRAMS (ORIGINAL DATA, NO COPIES).

3. COPIES OF APPROVED SHOP DRAWINGS.

4. OPERATING INSTRUCTIONS FOR HEATING AND COOLING AND OTHER MECHANICAL SYSTEM. OPERATING INSTRUCTIONS SHALL ALSO INCLUDE RECOMMENDED MAINTENANCE AND SEASONAL CHANGEOVER PROCEDURES.

5. TEST AND BALANCE REPORTS REQUIRED BY THESE SPECIFICATIONS.

6. ANY AND ALL OTHER DATA AND/OR DRAWINGS REQUIRED DURING CONSTRUCTION.

7. REPAIR PARTS LISTS OF ALL MAJOR ITEMS AND EQUIPMENT INCLUDING NAME, ADDRESS AND TELEPHONE NUMBERS OF LOCAL SUPPLIER OR AGENT.

8. VALVE TAG CHARTS AND DIAGRAMS.

C. ALL OF THE ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AT SUCH TIME AS THE CONTRACTOR SUBMITS HIS LAST ESTIMATE PRIOR TO HIS FINAL PAYMENT, BUT IN NO CASE, LESS THAN TWO WEEKS BEFORE FINAL INSPECTION.

GENERAL MECHANICAL NOTES

V RETURN AIR WILL BE TAKEN THROUGH LIGHT FIXTURES, PORTIONS OF PERIMETER SLOTS, AND RETURN AIR GRILLES.

VI CONTRACTOR TO VERIFY THAT ALL LIGHT FIXTURES HAVE SLOTS OPEN FOR AIR HANDLING CAPABILITIES. (BEND TABS IF REQUIRED.)

VII LOCATIONS AND SIZES OF EXISTING SYSTEMS ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING, DUCTS, ETC. SHALL BE VERIFIED ON THE JOB BY THE CONTRACTOR.

VIII CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH ALL OTHER TRADES. HOLD DUCTWORK TIGHT AGAINST UNDERSIDE OF STRUCTURE ABOVE.

IX CFM DESIGNATION AT TERMINALS INDICATE PRIMARY AIR ON TOP AND FAN AIR ON BOTTOM.

X ALL DUCT SIZES ARE "AIR SIZE". SHEET METAL TO BE INCREASED TO ACCOMMODATE DUCT LINER, IF APPLICABLE.

XI TAPE AND SEAL ALL ROUND DUCT CONNECTIONS TO BE PERMANENTLY AIR TIGHT.

X11 SPIN-IN COLLARS "ONLY" SHALL BE SUITABLE FOR CONNECTION TO RECTANGULAR DUCTWORK AND SHALL HAVE VOLUME DAMPERS. "DOVE-TAIL" TAPS WILL NOT BE ALLOWED.

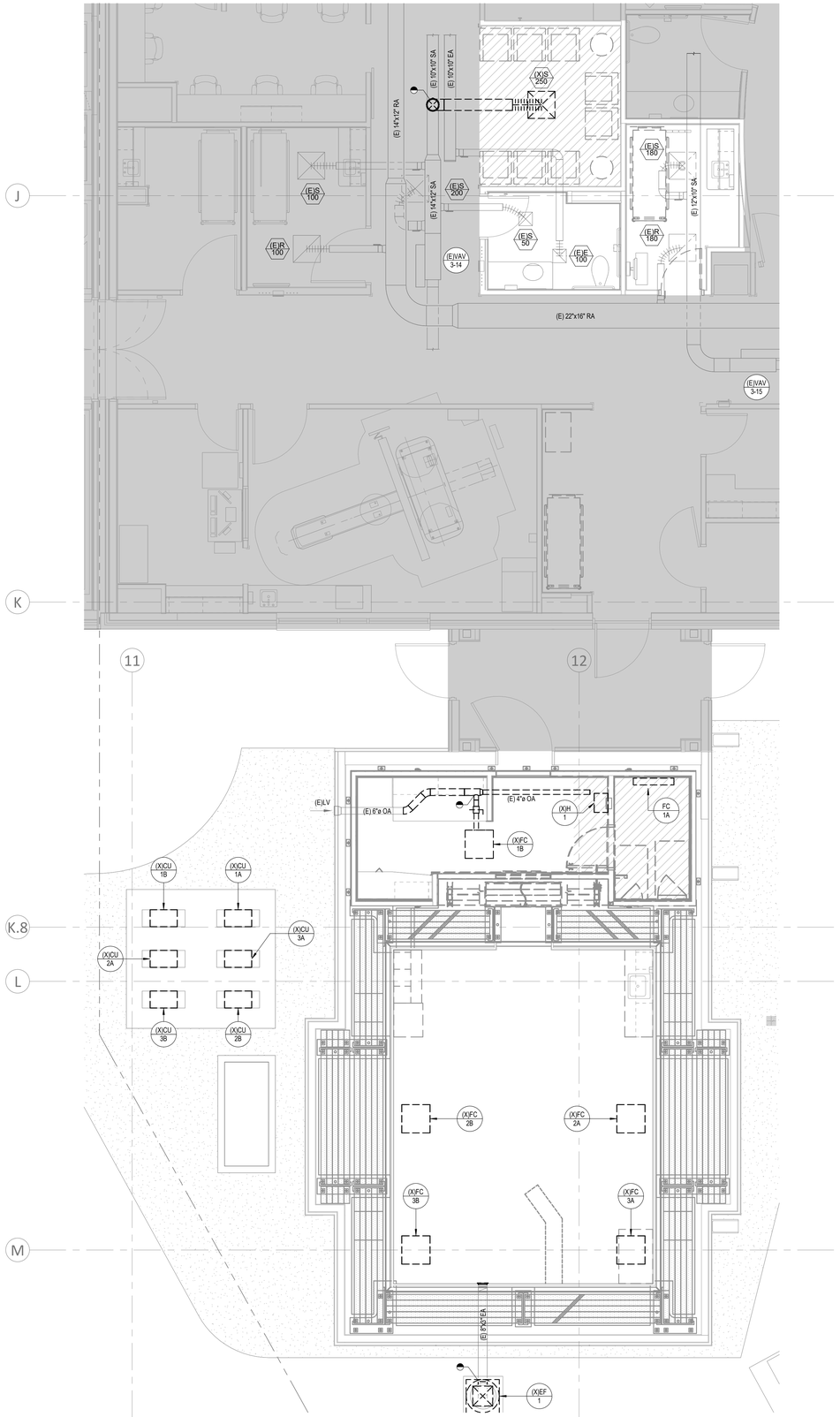
XIII RIGID SHEET METAL DUCT SHALL BE RUN WITHIN SIX FEET OF DIFFUSERS. FLEX DUCT SHALL BE SUPPORTED AS OFTEN AS NECESSARY TO PREVENT KINKS, FOLDS OR OTHER OBSTRUCTIONS TO AIR FL

GENERAL NOTES

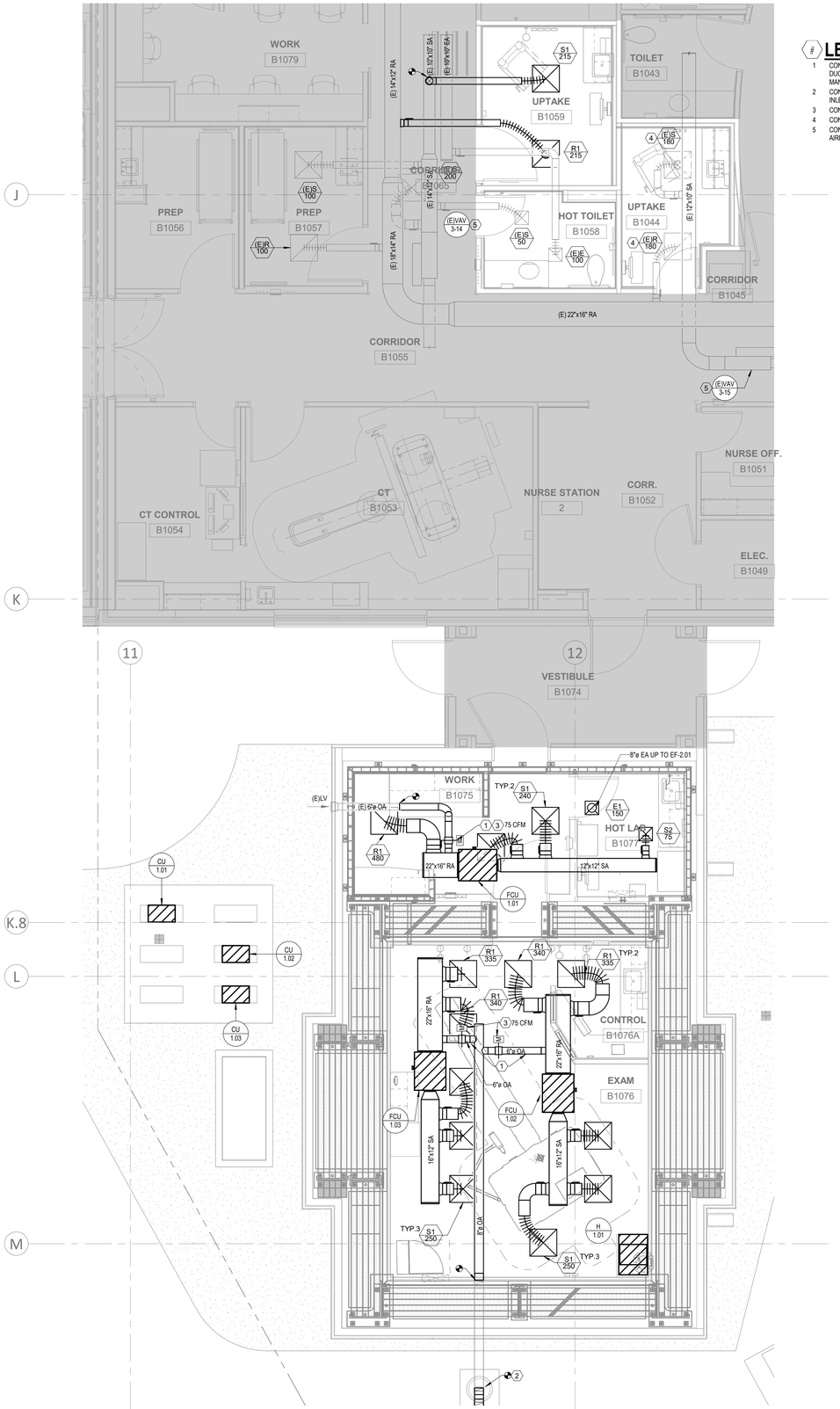
A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

1. CONTRACTOR TO CONNECT OA DUCT TO RETURN SIDE OF NEW CEILING DUCTED FAN COIL UNITS. MAKE ALL FINAL CONNECTIONS AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL EXTEND EXISTING DUCT TO CREATE A GOOSENECK INLET. INLET MUST BE AT MINIMUM 3 FT ABOVE GROUND.
3. CONTRACTOR SHALL SET MOTORIZED DAMPER TO INDICATED AIRFLOW.
4. CONTRACTOR TO RE-BALANCE DIFFUSER TO INDICATED AIRFLOW.
5. CONTRACTOR TO RE-BALANCE EXISTING TERMINAL UNIT TO ADJUSTED AIRFLOW.



2 DEMO PLAN - FLOOR - HVAC
M2.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - HVAC
M2.11 1/4" = 1'-0"

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WSP Project Number: US0051095.3525

PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

100% CONSTRUCTION DOCUMENT

DATE 02/06/2026

REVISIONS

#	DESCRIPTION	DATE

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: _____
Eng. Reg. No.: _____
Date: _____

SHEET TITLE

FLOOR PLAN - HVAC

SHEET NUMBER

M2.11

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GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

1 CONTRACTOR TO REMOVE EXISTING WALL MOUNTED MINI-SPLIT AND REMOVE ALL ASSOCIATED REFRIGERANT LINES TO EXTEND INDICATED. CAP AND SEAL FOR ABANDONMENT.

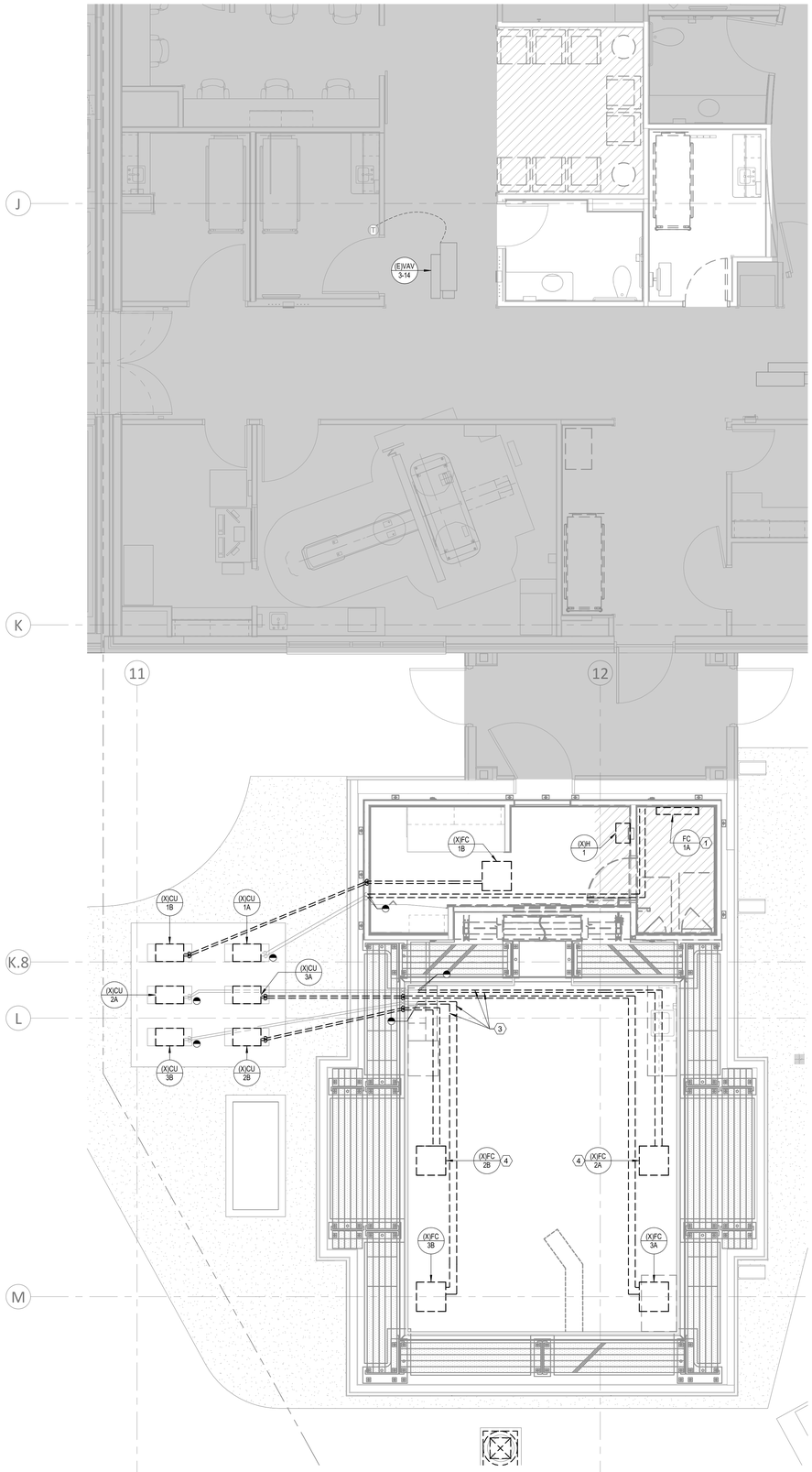
2 CONTRACTOR SHALL REUSE EXISTING PVC SHEAVES TO REROUTE NEW REFRIGERANT LINES. CONTRACTOR SHALL SIZE REFRIGERANT LINES AS PER MANUFACTURER'S RECOMMENDATIONS.

3 CONTRACTOR TO REMOVE EXISTING REFRIGERANT LINE TO EXTENT INDICATED. CAP AND SEAL FOR ABANDONMENT.

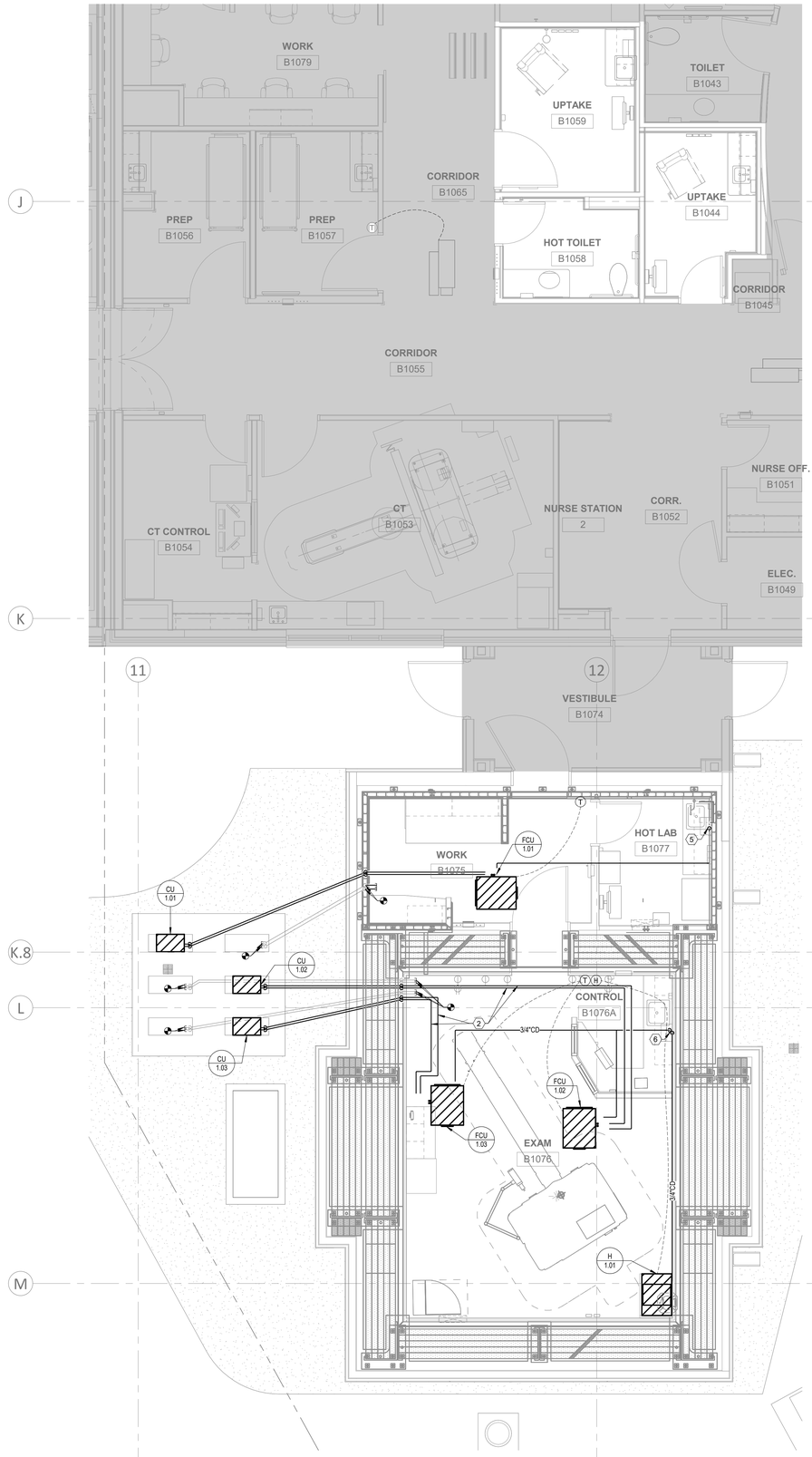
4 CONTRACTOR TO REMOVE EXISTING FAN COILS AND ALL ASSOCIATED ELECTRICAL CONNECTIONS AND PIPING. PRESERVE EXISTING UNDERGROUND PVC PIPING FOR NEW REFRIGERANT LINES IN NEW WORK.

5 CONTRACTOR TO EXTEND CONDENSATE DRAIN TO TAILPIECE OF SINK. REFER TO DETAIL 8 ON SHEET M7.01 FOR INSTALLATION.

6 CONTRACTOR TO EXTEND CONDENSATE DRAIN DOWN TO WALL BOX.



2 DEMO PLAN - FLOOR - HVAC PIPING
M3.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - HVAC PIPING
M3.11 1/4" = 1'-0"

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Date: _____

SHEET TITLE

FLOOR PLAN - HVAC PIPING

SHEET NUMBER

M3.11

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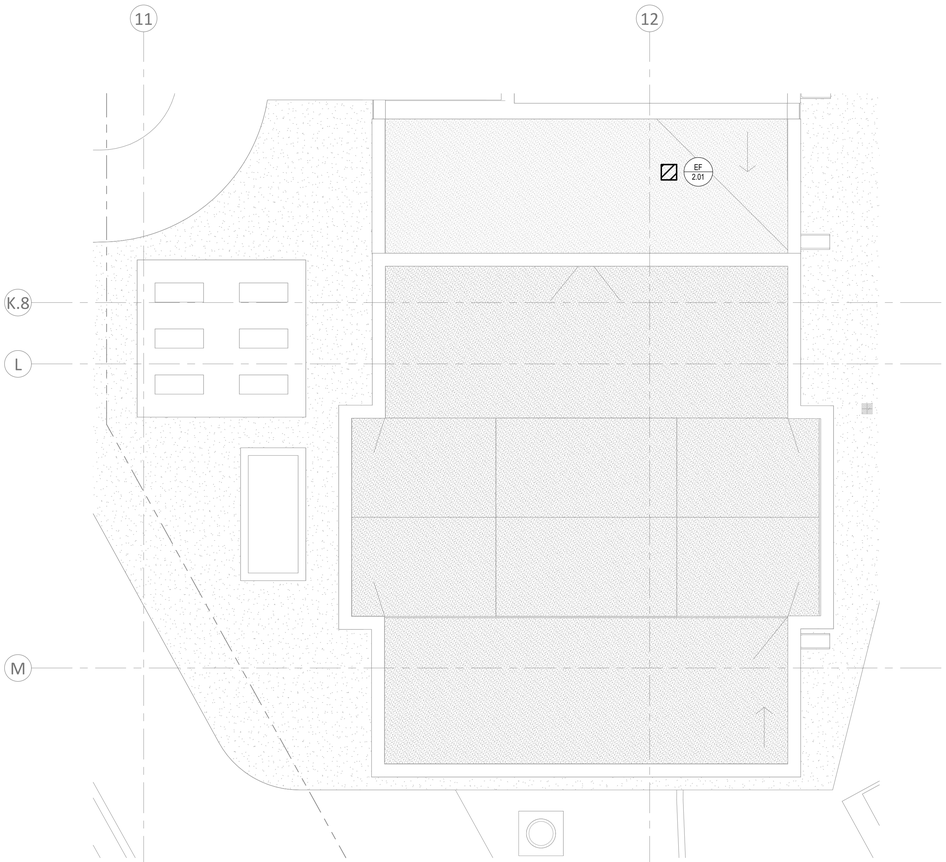
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GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES



1 FLOOR PLAN - ROOF - AREA A - HVAC
M2.12 1/4" = 1'-0"

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COMMUNITY HOSPITAL MOB 1 PET CT

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ROOF PLAN - HVAC

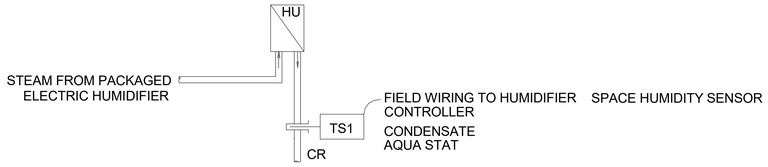
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M2.12

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TYPICAL ELECTRIC STEAM HUMIDIFIER

THE HUMIDIFIER SHALL BE ENABLED/DISABLED FROM HUMIDISTAT, WHENEVER ASSOCIATED SPACE HUMIDITY DROPS BELOW 35%. HUMIDIFIERS SHALL BE PACKAGED UNITS WITH THEIR OWN CONTROLS AND INTEGRAL SEQUENCE SIMILAR TO BELOW.

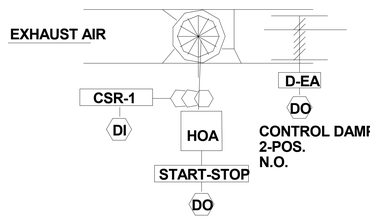
UPON ENABLE SIGNAL FROM HUMIDISTAT. THE HUMIDIFIER SHALL PROVE WARM OPERATION BY THE CONDENSATE AQUASTAT. IF SYSTEM TEMPERATURE ARE PROVEN THE HUMIDIFIER SHALL ACTIVATE TO PROVIDE SPACE HUMIDIFICATION. THE HUMIDIFICATION CONTROL VALVE SHALL (INTERNAL TO THE HUMIDIFIER) MODULATE TO MAINTAIN THE SPACE HUMIDITY SET POINT (ADJ ON HUMIDIFIER)

THE HUMIDIFIER SHALL AUTOMATICALLY SHUTDOWN THE CONTROL VALVE FOR ANY OF THE FOLLOWING:

- COLD OPERATION (TS-1)
- SPACE HUMIDITY 10% (ADJ.) ABOVE OR BELOW SET POINT FOR MORE THAN 30 MIN.
- GENERAL FAULT ALARM IF THE HUMIDIFER SHUTS DOWN FOR ANY OTHER INTERNAL FAULT.

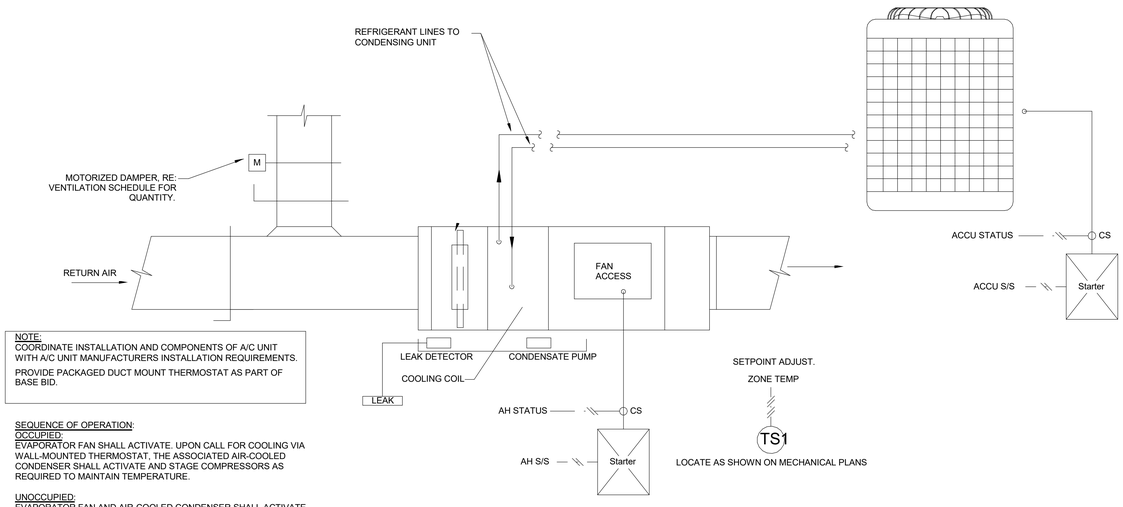
ALL SET POINTS SHALL BE ADJUSTABLE. INITIAL SET POINTS SHALL BE BASED ON HUMIDIFIER MANUFACTURER RECOMMENDATIONS.

2 TYPICAL ELECTRIC STEAM HUMIDIFIER CONTROL DIAGRAM
M6.01 NOT TO SCALE



CONTROL SEQUENCE FOR EXHAUST FAN
THE EF SHALL OPERATE AS A CONSTANT VOLUME EXHAUST FAN 24 HOURS PER DAY, 7 DAYS A WEEK. MOTORIZED DAMPER SHALL BE OPEN WHEN FAN IS ON AND CLOSED WHEN FAN IS OFF. ALL FAN ALARMS SHALL BE ECHOED TO THE BAS.

3 EXHAUST SEQUENCE OF OPERATION
M6.01 NOT TO SCALE



SEQUENCE OF OPERATION:
OCCUPIED:
EVAPORATOR FAN SHALL ACTIVATE. UPON CALL FOR COOLING VIA WALL-MOUNTED THERMOSTAT, THE ASSOCIATED AIR-COOLED CONDENSER SHALL ACTIVATE AND STAGE COMPRESSORS AS REQUIRED TO MAINTAIN TEMPERATURE.

UNOCCUPIED:
EVAPORATOR FAN AND AIR-COOLED CONDENSER SHALL ACTIVATE AND STAGE COMPRESSORS AS REQUIRED TO MAINTAIN SPACE TEMPERATURE. OUTDOOR AIR DAMPERS TO BE CLOSED.

ALARMS:
UPON DETECTION OF A LEAK VIA LEAK DETECTOR, THE AC SYSTEM SHALL SHUTDOWN AND SEND ALARM SIGNAL.

1 AC/CU SPLIT SYSTEM CONTROL DIAGRAM
M6.01 NOT TO SCALE

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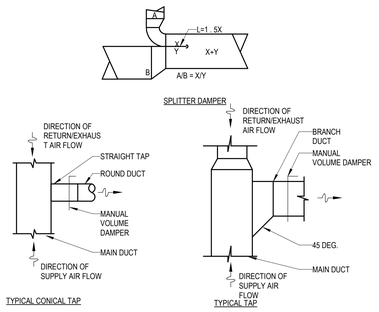
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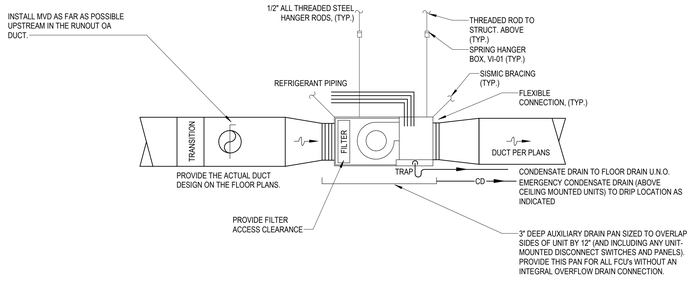
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CONTROLS DIAGRAMS - MECHANICAL

SHEET NUMBER
M6.01

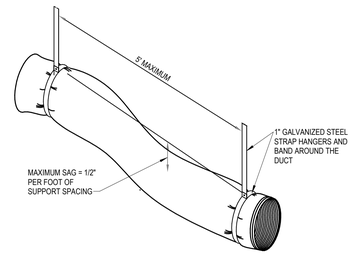
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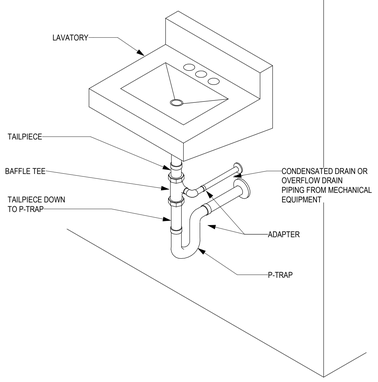
9 LOW PRESSURE DUCT DETAILS
NOT TO SCALE



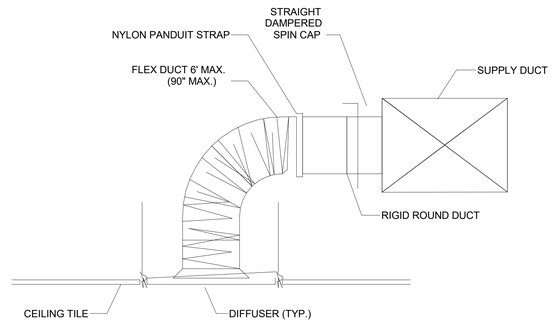
6 FAN COIL UNIT-DX COOLING
NOT TO SCALE



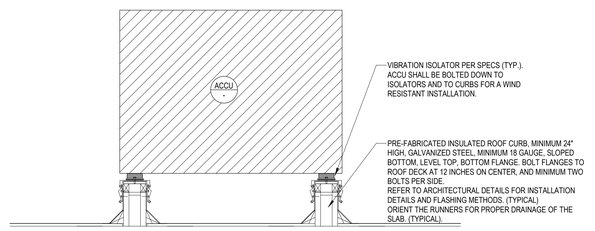
3 FLEXIBLE DUCT SUPPORT
NOT TO SCALE



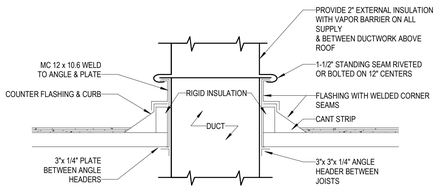
8 BAFFLE TEE FOR CONDENSATE DRAIN DETAIL
NOT TO SCALE



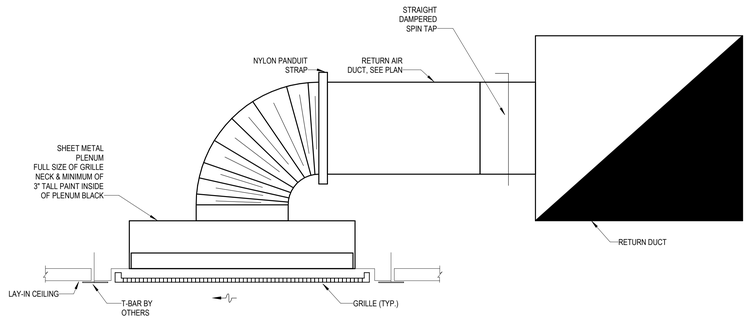
5 DIFFUSER CONNECTION DETAIL
NOT TO SCALE



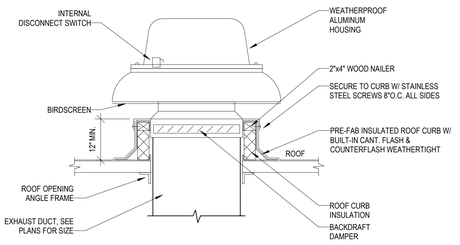
2 AIR COOLED CONDENSING UNIT
NOT TO SCALE



7 DUCT THRU ROOF DETAIL
NOT TO SCALE



4 RETURN AIR GRILLE DUCT CONNECTION
NOT TO SCALE



EXHAUST DUCT-SIZES AS SHOWN ON PLANS. DUCTS SHALL EXTEND UP TO ROOF EXHAUSTER OPENING. DUCTS SHALL NOT TERMINATE BELOW ROOF.

GENERAL NOTE
A. PROVIDE SPACE FOR ELECTRICAL CONDUIT BETWEEN DAMPER AND ROOF OPENING.

1 TYPICAL DOME TYPE EXHAUST
NOT TO SCALE

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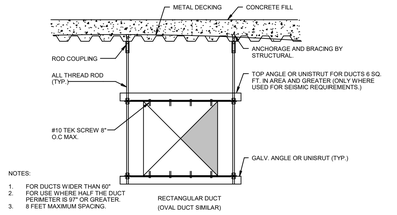
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DETAILS - MECHANICAL

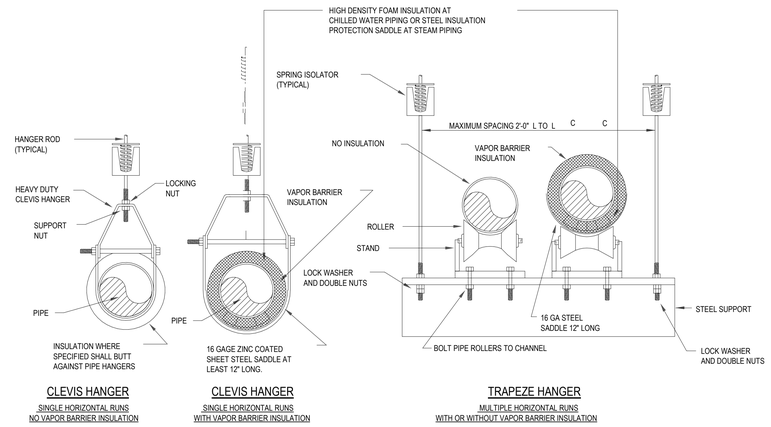
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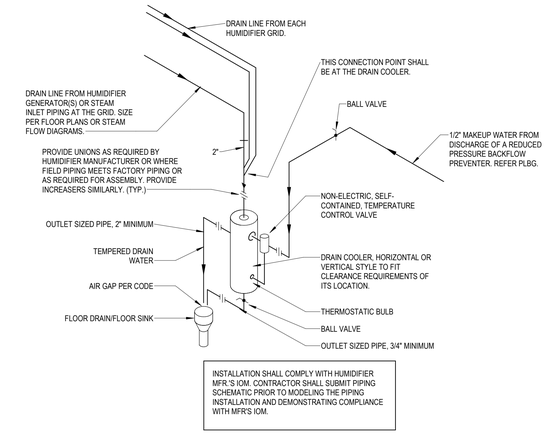
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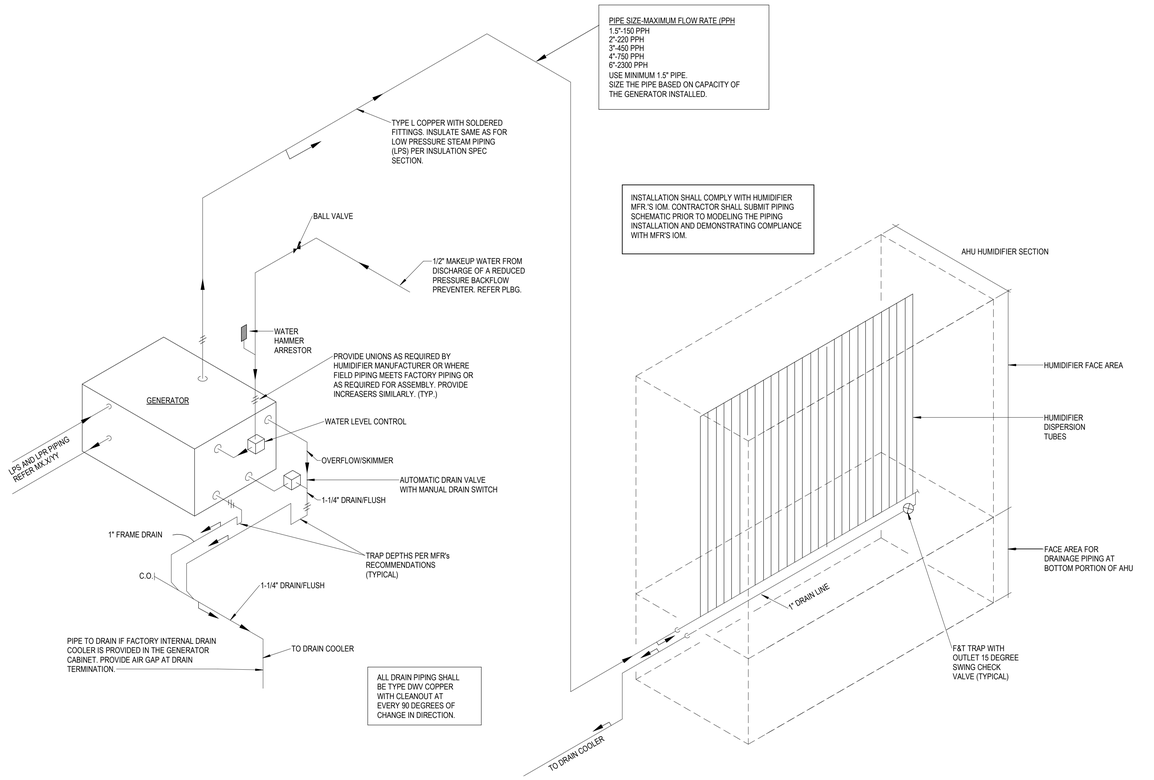
5 DUCT HANGERS
NOT TO SCALE



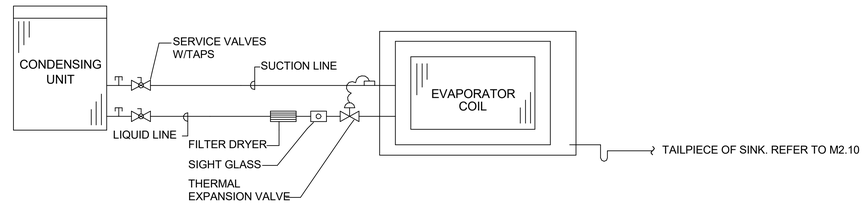
3 PIPING SUPPORT HANGERS
NOT TO SCALE



2 HUMIDIFIER DRAIN COOLER
NOT TO SCALE



4 HUMIDIFIER - AHU-INDIRECT STEAM-TO-STEAM GENERATOR
NOT TO SCALE



1 SPLIT SYSTEM REFRIGERANT PIPING
NOT TO SCALE

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A2L REFRIGERANT EDVC CALCULATION

LOCATION	B1076 - EXAM	B1075 - WORK
UNIT DESIGNATION	FCU-1.02,FCU 1.03,	FCU 1.01
ALTITUDE (FT)	4583	4583
SPACE SERVED (SQ. FT.)	500	230
CEILING HEIGHT (FT.)	8	8
REFRIGERANT TYPE	R454B	R454B
LFL (LB / 1000 CU.FT)	18.5	18.5
CF	0.5	0.5
Veff (CU. FT.)	4000	1840
OCCUPANCY TYPE (Focc)	0.5	0.5
EDVC (LFL x CF x Veff x Focc)	18.5	8.5
RELEASABLE CHARGE (LBS.)	14	7
IS SYSTEM COMPLIANT? (RELEASABLE CHARGE = < EVDC)	YES	YES

REMARKS:
1. CALCULATIONS ABOVE ARE BASED ON ASHRAE 15 2024 7.6.1.1: REFRIGERATION SYSTEMS WITH AIR CIRCULATION.

VIBRATION ISLATION

TAG	#	MANUFACTUERER	MODEL NUMBER	SERVICE	MAX DEFLECTION (IN.)	BASE TYPE
VI	1	VMC	HRSA-1C-250	DUCTED FAN COL UNITS	1.0	SPRING HANGER BOX

DIFFUSER AND GRILLE SCHEDULE

DESIGNATION	MANUFACTURER / MODEL NO.	SERVICE	MATERIAL	FACE SIZE	NECK SIZE	DESCRIPTION
S1	TITUS / TMS	SUPPLY	STEEL	24" X 24"	SEE BELOW	SQUARE CONE FACE - SUPPLY
R1	TITUS / PAR	EXHAUST	STEEL	24" X 24"	SEE BELOW	PERFORATED FACE W/ ROUND NECK ADAPTER - EXHAUST
E1	TITUS / 350RL	EXHAUST	STEEL	12" X 12"	SEE BELOW	SINGLE DEFLECTION FIXED GRILLE 3/4" SPACING

PROVIDE NECK SIZE IN ACCORDNACE WITH THE FOLLOWING TABLES:

SUPPLY DIFFUSERS

NECK SIZE (INCHES)	MAXIMUM CFM	DUCT SIZE (INCHES)
6" DIA	100	6" DIA
8" DIA	220	8" DIA
10" DIA	310	10" DIA
12" DIA	460	12" DIA
14" DIA	550	14" DIA

RETURN AND EXHAUST DIFFUSERS

NECK SIZE (INCHES)	MAXIMUM CFM	DUCT SIZE (INCHES)
6" DIA	100	6" DIA
8" DIA	275	8" DIA
10" DIA	380	10" DIA
12" DIA	525	12" DIA
14" DIA	640	14" DIA

GENERAL NOTES (CONTINUED):
1. FRAME TYPE SHALL MATCH CEILING TYPE AND CEILING MODULE DIMENSIONS.
2. PROVIDE PLASTER FRAMES IN ALL HARD CEILINGS, REFER TO REFLECTED CEILING PLAN.
3. INDICATED NECK SIZES SHALL NOT BE REDUCED.
4. COORDINATE ALL COLORS WITH ARCHITECT.
5. INSTALL DUCT BALANCING DAMPERS AT ALL GRD TAPS, UNLESS NOTED OTHERWISE.
6. PROVIDE REMOTE REGULATORS FOR BALANCING ABOVE INACCESSABLE CEILINGS.

SPACE DATA				ASHRAE 170		IMC				OUTSIDE AIRFLOW				TOTAL AIRFLOW					
ROOM NAME	AREA (SQ. FT.)	CLG HEIGHT (FT)	# OF PEOPLE	OACH	TACH	Rp	Ra	Ez	Zp	ASHRAE 170 REQUIRED (CFM)	IMC REQUIRED (CFM)	PROVIDED (CFM)	COMPLIANT	REQUIRED (CFM)	PROVIDED (CFM)	COMPLIANT	PRESSURE	TRANSFER AIRFLOW FROM ADJACENT SPACE	REMARKS
B1076 - EXAM	425	8.0	2.0	2	6	0	0	0.8	0.07	113	0	125	YES	340	1550	YES	N / R	-	
1076A - CONTROL	60	8.0	0.0	0	0	5	0.06	0.8	0.02	0	5	25	YES	5	250	YES	N / R	-	
B1075 - WORK	155	9.0	3.0	0	0	5	0.06	0.8	0.06	0	30	50	YES	30	500	YES	N / R	-	
B1077 - HOT LAB	75	8.0	0.0	2	6	0	0	0.8	0.40	20	0	25	YES	60	150	YES	NEGATIVE	-	
B1044 - UPTAKE	100	8.0	0.0	2	4	0	0	0.8	0.15	27	0	27	YES	178	180	YES	N / R	-	
B1059 - UPTAKE	120	8.0	0.0	2	4	0	0	0.8	0.15	32	0	33	YES	213	215	YES	N / R	-	

HUMIDIFIER SCHEDULE

DESIGNATION	LOCATION	MIN. LBS/HR	PSIG.	SIZE	SYSTEM SERVED	ELECTRICAL MOTOR DATA			MAUFACTURER / MODEL	WEIGHT (LBS)	REMARKS
						KW	FLA	VOLT / PH			
H - 1.01	EXAM - B1076	45	-	32" X 21" X 26"	EXAM - B1076	16	76.9	208 / 3	DRISTEEM / E-RX	180	ALL

REMARKS:
1. PROVIDE REMOTE BLOWER PACK SDU-1. MANUFACTURER/MODEL NUMBER: DRISTEEM/SDU-E-RX.
2. SLOPE PIPE 1/4 INCH PER FOOT TO DRAIN CONDENSATE BACK TO STEAM GENERATOR.
3. DRAIN STEAM GENERATOR THROUGH DRISTEEM/DRANE-KOOLER OR EQUAL. PROVIDE 1/2" CW CONNECTION TO CONDENSATE WATER COOLER.
4. ROUTE CONDENSATE COOLER DISCHARGE AND OVERFLOW TO WALL BOX DRAIN.
5. PROVIDE WITH FIELD-INSTALLED DISCONNECT SWITCH.

FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	AIRFLOW (CFM)	ESP (IN WC)	FAN DATA			ELECTRICAL MOTOR DATA			MAUFACTURER / MODEL	WEIGHT (LBS)	REMARKS
					TYPE	RPM	DRIVE	HP	BHP	VOLT / PH			
EF-2.01	ROOF DECK	EXAM - B1076	150	0.5	UTILITY	1606	DIRECT	1/6	0.05	208 / 1	GREENHECK / G-080-VG	150	ALL

REMARKS:
A. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. CONTROLED & MONITORED VIA BAS SYSTEM.
B. EXHAUST FAN SHALL BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH.
C. JOBSITE ELEVATION: 4,583 FT ASL
D. EXHAUST FANS SELECTED WITH 10% SPARE CAPACITY TO ACCOUNT FOR DUCT LEAKAGE.

SPLIT SYSTEM AC UNIT SCHEDULE

INDOOR UNIT									OUTDOOR UNIT								REMARKS
MARK	SERVICE	TYPE	COOLING		WEIGHT (LB)	ELECTRICAL		MANUF. / MODEL #	MARK	LOCATION	ELECTRICAL			EFFICIENCY	MANUF. / MODEL #		
			OUTPUT CAPACITY (BTU)	AIRFLOW (CFM)		MCA	V / PH				MCA	MOCP	V / PH	EER / SEER			
FCU-1.01	WORK - 1075	CEILING DUCTED	24,000	555	67	2.3	208 / 1	MITSUBISHI / PEAD-A24AA9	CU-1.01	WEST GROUND	17	27	208/1	11.7/16.7	MITSUBISHI / PUZ-HA24NHA1		ALL
FCU-1.02	EXAM - B1076	CEILING DUCTED	24,000	750	67	2.3	208 / 1	MITSUBISHI / PEAD-A24AA9	CU-1.02	WEST GROUND	17	27	208/2	11.7/16.7	MITSUBISHI / PUZ-HA24NHA1		ALL
FCU-1.03	EXAM - B1076	CEILING DUCTED	24,000	750	67	2.3	208 / 1	MITSUBISHI / PEAD-A24AA9	CU-1.03	WEST GROUND	17	27	208/3	11.7/16.7	MITSUBISHI / PUZ-HA24NHA1		ALL

REMARKS:
1. INDOOR AND OUTDOOR UNITS SHALL BE SUPPLIED AS A "MATED PAIR" AS PRODUCED BY A SINGLE MANUFACTURER.
2. SINGLE-POINT POWER CONNECTION. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. CONNECT TO EQUIPMENT BRANCH POWER, COORDINATE WITH DIVISION 26.
3. COORDINATE SIZE AND ROUTE OF REFRIGERANT PIPING WITH MANUFACTURER.
4. PROVIDE FACTORY UNITARY CONTROLS AND WIRED THERMOSTAT, FOR LOCAL CONTROL. CONTROLS CONTRACTOR TO PROVIDE ADDITIONAL TSTAT, FOR SEPARATE MONITORING AND ALARMING OF IDF ROOM TEMPERATURE.
5. PROVIDE BACNET COMMUNICATION CARD, AND INTEGRATE INTO BAS, FOR MONITORING OF SPLIT-SYSTEM STATUS AND ANY FAULT (ALARM AT BAS).
6. CONNECT 3/4" CONDENSATE DRAIN LINE TO EXISTING CONDENSATE SYSTEM OR CLOSEST PLUMBING FIXTURE TAIL PIECE
7. PROVIDE WIND AND SNOW BAFFLES FOR LOW AMBIENT COOLING DOWN TO -40°F OUTSIDE TEMP.

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GENERAL NOTES - PLUMBING

A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

B. INDICATED LOCATIONS ARE APPROXIMATE.

C. COORDINATE WITH OWNER AND PERSONNEL THE SHUT-DOWN OF THE EXISTING SITE UTILITIES.

D. ROUTE ALL PLUMBING PIPING AS TIGHT AS POSSIBLE TO STRUCTURE. PIPING SHALL BE INSTALLED PARALLEL/PERPENDICULAR TO WALLS AND COLUMN LINES.

E. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

F. COORDINATE THE EXACT LOCATION OF MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

G. COORDINATE ALL NEW WORK WITH ALL TRADES. WORK SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND DOES NOT PROVIDE FOR RELOCATIONS, OFFSETS, ETC., THAT ARE REQUIRED BY THE COORDINATION OF TRADES. THIS ADDITIONAL WORK SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

H. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.

I. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

J. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON CONCRETE HOUSEKEEPING PADS. GENERAL CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS, COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS. CONTRACTOR SHALL SCHEDULE AND PERFORM WORK IN SEQUENCE WITH THE PHASING PLAN.

L. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

M. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

N. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

O. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.

P. PROVIDE CLEANOUTS AT THE BASE OF ALL STORM AND SANITARY STACKS.

Q. ALL SANITARY SEWER AND STORM DRAIN SYSTEM WALL CLEANOUTS SHALL BE PLACED AT 18" AFF UNLESS OTHERWISE NOTED.

R. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

S. DO NOT ROUTE PIPING INSIDE ELECTRICAL AND COMMUNICATION ROOMS, IN UNAVOIDABLE INSTANCES, ALL EQUIPMENT SHALL BE PROTECTED FROM OVERHEAD PIPING WITH DRAIN PANS. ROUTE DRAIN FROM DRAIN PANS TO NEAREST FLOOR DRAIN IN MECHANICAL AREAS. WHERE NO FLOOR DRAIN IS ACCESSIBLE ROUTE AS INDIRECT WASTE TO PLUMBING FIXTURE AS INDICATED ON CONTRACT DRAWINGS, OR NEAREST LAVATORY TAILPIECE. PROVIDE SENSOR IN DRAIN PAN TO SEND ALARM TO BAS IN CASE OF LEAKAGE INTO PAN.

T. EACH SUBCONTRACTOR SHALL PROVIDE ADEQUATELY SIZED ACCESS DOORS TO PROVIDE REQUIRED ACCESS THROUGH HARD SURFACES TO THEIR WORK REQUIRING ACCESS (ANY FLOW DEVICES, VALVES, ETC.). SUBCONTRACTOR IS ALSO REQUIRED TO PROVIDE ADEQUATE LOCATION INFORMATION SO ACCESS CAN BE INSTALLED BY INTERIORS SUBCONTRACTOR.

U. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL TYPES.

V. ALL PLUMBING PIPING SHALL BE IDENTIFIED IN ACCORDANCE WITH THE SPECIFICATIONS.

W. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE.

X. COORDINATE ALL PIPING FLOOR PENETRATIONS WITH STRUCTURAL.

Y. SPACE LOCATIONS FOR MATERIALS, EQUIPMENT AND FIXTURES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR FIXTURES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND FIXTURES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.

Z. PIPE PENETRATIONS THROUGH WALLS SHALL MAINTAIN THE CONSTRUCTION/FIRE RATING OF THE WALL.

AA. SPACE LOCATIONS FOR MATERIALS, EQUIPMENT AND FIXTURES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE EQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR FIXTURES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND FIXTURES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.

AB. PIPE PENETRATIONS THROUGH WALLS SHALL MAINTAIN THE CONSTRUCTION/FIRE RATING OF THE WALL.

AC. REFER TO STRUCTURAL ENGINEER FOR METHOD OF PIPE PENETRATIONS THROUGH STRUCTURAL MEMBERS (BEAMS, JOISTS, ...). COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

AD. INSULATE THE FIRST 20 FEET OF CONNECTED DRAIN PIPING RECEIVING CONDENSATE AND/OR ICE MACHINE WASTE.

AE. COORDINATE VTR, MAI, AND MVE LOCATIONS WITH AIR INTAKE/EXHAUST LOCATIONS. THERE SHALL BE AT LEAST 25 FEET DISTANCE BETWEEN INTAKE AND EXHAUST LOCATIONS.

AF. PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS OTHERWISE NOTED.

AG. PROVIDE ISOLATION VALVES AT EACH BRANCH TIE IN TO MAIN PLUMBING LINES, AT EACH PIECE OF EQUIPMENT, AT EACH TOILET ROOM GROUP OF FIXTURES, OR AT OTHER ROOMS THAT MAY HAVE MULTIPLE FIXTURES.

AH. REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS OF ALL FLOOR PENETRATIONS.

DEMOLITION NOTES

A. ALL CAPPED SANITARY WASTE, VENTS AND DOMESTIC WATER PIPING THAT ARE NOT BEING USED, NEED TO BE REMOVED BACK TO THE MAINS AND CAPPED.

B. PROVIDE ADDITIONAL VALVES, FITTINGS AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE AND INSIDE OF THE AREA WORK.

C. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

D. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

E. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.

F. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING PLUMBING FIXTURES AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION. ALL EXISTING PIPING THAT WAS SHUT DOWN DURING DEMOLITION SHALL BE TURNED ON AND CHECKED FOR LEAKS.

G. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.

H. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.

I. A DEVICE OR PIPING WITH AN 'X' INDICATES EXISTING TO BE REMOVED INCLUDING ALL ASSOCIATED VALVES AND FIXTURES. PIPING TO BE VALVED AND CAPPED AT POINT OF ORIGIN.

J. CONTRACTOR SHALL REMOVE ALL FIXTURES, ASSOCIATED PIPING AND EQUIPMENT INDICATED TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY FIXTURES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" FIXTURES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.

K. WHERE EXISTING MECHANICAL EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED PLUMBING TO THE EQUIPMENT AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION AND VALVE & CAP.

L. ITEMS REMOVED AND NOT REINSTALLED OR RETURNED TO OWNER SHALL BE DISPOSED OF LEGALLY (COORDINATE WITH OWNER FOR THE DISPOSAL).

M. ALL EXISTING PLUMBING RISER(S) LOCATED IN THE DEMOLISHED WALLS/CHASES MUST BE RELOCATED TO AN APPROVED LOCATION BY THE ARCHITECT THEN RECONNECTED ON ADJACENT FLOORS.

N. ANY FLOOR DRAINS OR FLOOR SINKS NOT REQUIRED SHALL BE REMOVED COMPLETELY. DRAINS ON THE GROUND FLOOR SHALL BE PERMANENTLY PLUGGED WITH GROUT AND CUT BACK TO ACCEPT NEW FLOORING MATERIAL.

RENOVATION NOTES

A. COORDINATE ALL PIPING ROUTING WITH OTHER TRADES BEFORE INSTALLING PIPING. OFFSET PIPING WHERE POSSIBLE, TO COORDINATE WITH OTHER TRADES.

B. CONNECT VENT AND WATER FOR NEW FIXTURES TO NEAREST PIPING IN CEILING SPACE ON THIS FLOOR. CONNECT WASTE FOR NEW FIXTURES TO NEAREST PIPING IN CEILING SPACE OF FLOOR BELOW.

C. WHERE POSSIBLE, REUSE EXISTING FLOOR PENETRATIONS AFTER REVIEW AND APPROVAL BY ARCHITECT. LOCATIONS SHOWN ON THESE DRAWINGS REFLECT DESIGN INTENT AND ARE BASED ON AS-BUILT DRAWINGS MADE AVAILABLE TO THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL LOCATIONS OF NEW FLOOR PENETRATIONS BASED ON FIELD INVESTIGATION AND VERIFICATION, PRIOR TO STARTING NEW WORK.

D. WHERE UNAVOIDABLE, PIPE ROUTING MAY REQUIRE BORING THROUGH STRUCTURAL GIRDERS. CONTRACTOR SHALL X-RAY GIRDER AND PREPARE A DRAWING AND SUPPORTING DOCUMENTS SHOWING THE PROPOSED BORE LOCATIONS FOR PIPING. SUBMIT THIS PROPOSED PIPING LAYOUT FOR ENGINEER/ARCHITECT/OWNER REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. PROCEED WITH NEW WORK ONLY WITH WRITTEN STATEMENT TO PROCEED FROM ARCHITECT OR STRUCTURAL ENGINEER.

E. FOR ALL EXISTING FLOOR PENETRATIONS NOT USED, CUT PIPING JUST BELOW FLOOR LEVEL, PLUG PIPING WATER-TIGHT AND FILL WITH GROUT. REPAIR AND PATCH FLOOR TO MATCH EXISTING.

F. CONFIRM WITH ARCHITECTURAL DRAWINGS THE REQUIRED MOUNTING HEIGHTS PRIOR TO INSTALLATION/REINSTALLATION OF FIXTURES.

G. ALL CONNECTIONS TO EXISTING PIPING SHALL BE MADE TO SAME SIZE OR LARGER EXISTING PIPING. IF IT IS DETERMINED BY FIELD INVESTIGATION THAT THE EXISTING PIPE SIZE TO BE CONNECTED TO IS SMALLER THAN THE NEW PIPE SIZE, NOTIFY ARCH/ENGR BEFORE PROCEEDING WITH WORK.

H. CONNECTIONS TO EXISTING SANITARY PIPING IS BASED ON EXISTING DRAWINGS AND LIMITED FIELD INVESTIGATION DUE TO INACCESSIBLE AREAS. PIPING LESS THAN 4" SHALL HAVE A 1/4" SLOPE PER FOOT, PIPING 4" AND LARGER A 1/8" SLOPE PER FOOT. IF IT IS DETERMINED DURING CONSTRUCTION/FIELD SURVEY THAT THE PIPE ROUTING CAN NOT TIE-IN TO EXISTING SANITARY PIPING AS SHOWN ON THESE DRAWINGS BECAUSE OF ELEVATION DIFFERENCES, CONTRACTOR SHALL PREPARE AN ADJUSTED PIPING ROUTING AND CONNECTION TO EXISTING PIPING BASED ON ACTUAL FIELD CONDITIONS. SUBMIT THIS PROPOSED PIPING LAYOUT FOR ENGINEER/ARCHITECT/OWNER REVIEW PRIOR TO CONTINUING WITH CONSTRUCTION.

ABBREVIATIONS - PLUMBING

(E)	EXISTING	HW	DOMESTIC HOT WATER
(F)	FUTURE	HWR	DOMESTIC HOT WATER RETURN
(N)	NEW	IE	INVERT ELEVATION
(R)	EXISTING TO BE RELOCATED	IN	INCH
A/C	ABOVE CEILING	INV	INVERT
ABV	AUTOMATIC BALANCING VALVE	IW	INDIRECT WASTE
AC	AIR CHAMBER	JP	JOCKEY PUMP
AD	AREA DRAIN	JS	JANITOR SINK
AFF	ABOVE FINISHED FLOOR	L	LAVATORY
AFG	ABOVE FINISHED GRADE	LCW	LAB COLD WATER
AP	ACCESS PANEL	LHW/SOLAR	LAB HOT WATER
AW	ACID WASTE	MH	MANHOLE
BFF	BELOW FINISHED FLOOR	MS	MOP SINK
BG	BELOW GRADE	NC	NORMALLY CLOSED
BLDG	BUILDING	NIC	NOT IN THIS CONTRACT
BOP	BOTTOM OF PIPE	NF	NON-FREEZE
BT	BATHTUB	NO	NORMALLY OPEN
BV	BALANCING VALVE	NPW	NON-POTABLE
CCP	COIL CONDENSATE PUMP	OD	OVERFLOW DRAIN
CD	CONDENSATE DRAIN	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
CFS	CLEAN FUEL SUPPLY	PC	PUMPED CONDENSATE
CFR	CLEAN FUEL RETURN	PD	PLANTER DRAIN
CLG	CEILING	POC	POINT OF CONNECTION
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUATION	PW	PURIFIED WATER
CP	CIRCULATION PUMP	PWR	PURIFIED WATER RETURN
CS	CLINICAL SINK	RD	ROOF DRAIN
CV	CHECK VALVE	RI & C	ROUGH-IN AND CONNECT
CW	DOMESTIC COLD WATER	RISE	RISE (WITH IN FLOOR)
DF	DRINKING FOUNTAIN	ROR	REVERSE OSMOSIS RETURN WATER
DN	DOWN	ROS	REVERSE OSMOSIS SUPPLY WATER
DR	DRAIN	RPPBP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
DROP	DROP (WITHIN FLOOR)	SA	SHOCK ABSORBER
DS	DOWNSPOUT	SAN, SS	SANITARY
DSN	DOWNSPOUT NOZZLE	SD	STORM DRAIN PIPING
DWG	DRAWING	SF	SQUARE FEET
EEW	EMERGENCY EYE WASH	SH	SHOWER
EL	ELEVATION	SK	SINK
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION	SMR	SNOW MELT RETURN
ET	EXPANSION TANK	SMS	SNOW MELT SUPPLY
EWC	ELECTRIC WATER COOLER	SOS	SAND-OIL SEPARATOR
EWH	ELECTRIC WATER HEATER	SP	SUMP PUMP
FCA	FIRE SPRINKLER CONTROL VALVE	SPKR	SPRINKLER
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TMV	TEMPERATURE MIXING VALVE
FDC	FIRE DEPARTMENT CONNECTION	TP	TRAP PRIMER
FDV	FIRE DEPARTMENT VALVE	TW	TEMPERED WATER
FF	FINISHED FLOOR	TYP	TYPICAL
FHC	FIRE HOSE CABINET	UP	UP (PENETRATES FLOOR SLAB)
FLR	FLOOR	UR	URINAL
FOR	FUEL OIL RETURN	V	VENT
FOS	FUEL OIL SUPPLY	VB	VACUUM BREAKER
FP	FIRE PUMP	VR	VENT RISER
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
FT	FEET	WC	WATER CLOSET
GC	GENERAL CONTRACTOR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WF	WATER FILTER
GV	GATE VALVE	WFU	WATER FIXTURE UNIT
HB	HOSE BIBB	WH	WALL HYDRANT
HD	HUB DRAIN	WTS	WATER TIGHT SLEEVE

GENERAL NOTES - FIRE PROTECTION

A. FIRE PROTECTION CONTRACTOR SHALL REFER TO THE PLUMBING DRAWINGS FOR SCOPE OF WORK INCLUDING THE GENERAL NOTES ON THIS SHEET.

B. THE BUILDING'S FIRE PROTECTION SYSTEM MUST REMAIN IN SERVICE DURING CONSTRUCTION. FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR EXTENT OF DEMOLITION, RELOCATION, AND RENOVATION OF THE FIRE PROTECTION SYSTEM.

C. RENOVATION AND DEMOLITION SCOPE OF WORK FOR FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE FIRE PROTECTION ENGINEER.

D. DESIGN OF THE SPRINKLER SYSTEM SHALL BE UNDER DIRECT SUPERVISION OF AN RME (RESPONSIBLE MANAGING EMPLOYEE) EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE OF COLORADO. ALL DESIGN SUBMITTAL DOCUMENTS SHALL BEAR THE RME's SIGNED AND DATED REGISTRATION NUMBER. THE SYSTEM SHALL BE INSTALLED BY A FIRM HAVING MINIMUM THREE YEARS EXPERIENCE REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF AUTOMATIC FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE STATE OF COLORADO FIRE MARSHALL'S OFFICE. EVIDENCE TO SUPPORT THE ABOVE REQUIREMENTS SHALL BE SUBMITTED WITH SHOP DRAWINGS. WORKING PLANS SHALL BE SEALED BY AN ENGINEER REGISTERED BY THE COLORADO STATE BOARD FOR PROFESSIONAL ENGINEERS IN THE FIRE PROTECTION SPECIALTY.

E. DEMOLISH/RELOCATE/PROVIDE NEW SPRINKLER HEADS AS REQUIRED BY THE RENOVATION/EXPANSION SPACE FLOOR PLANS. FIRE PROTECTION SYSTEM FOR THE BUILDING MUST REMAIN IN SERVICE DURING CONSTRUCTION.

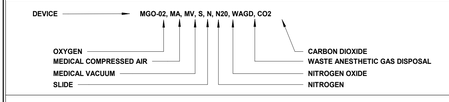
F. PROVIDE STANDARD QUICK RESPONSE SPRINKLER HEADS FOR ALL AREAS, UNLESS OTHERWISE NOTED.

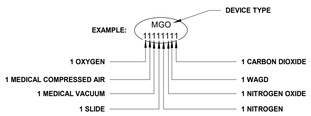
G. COORDINATE SPRINKLER AND FIRE MAIN LOCATIONS WITH ALL TRADES.

H. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

MEDICAL GAS LEGEND

MAP	= MASTER ALARM PANEL	MED AIR	= MEDICAL COMPRESSED AIR
MGB	= MEDICAL GAS CEILING BOOM	MV	= MEDICAL VACUUM
MGC	= MEDICAL GAS CEILING COLUMN	O2	= OXYGEN
MGD	= MEDICAL GAS DROP	S	= SLIDE
MGH	= MEDICAL GAS HEADWALL	AAP	= AREA ALARM PANEL
MGO	= MEDICAL GAS WALL OUTLET	ZVB	= ZONE VALVE BOX
MGP	= MEDICAL GAS PEDESTAL	NCP	= NITROGEN CONTROL PANEL
MGH	= MEDICAL GAS VACUUM EXHAUST	N	= NITROGEN
ME	= MEDICAL EQUIPMENT COMPRESSED AIR (FOR BRAKES ON MEDICAL BOOMS)	N2O	= NITROUS DIOXIDE GAS
		CO2	= CARBON DIOXIDE GAS
		WAGD	= WASTE ANESTHETIC GAS DISPOSAL





MEDICAL GAS NOTES:

A. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF MEDICAL GAS OUTLETS, ZONE VALVE BOXES AND ALARM PANELS.
B. NOT ALL GASES ARE TO BE USED AT EACH LOCATION. THE GAS ORDER SHOWN IN THE EXAMPLE IS TYPICAL FOR ALL OUTLETS.
C. COORDINATE MEDICAL GAS PIPE ROUTINGS WITH ALL OTHER TRADES BEFORE INSTALLATION.

TYPICAL MOUNTING HEIGHTS FOR MEDICAL GAS DEVICES:

WALL OUTLETS:	5' (60 INCHES) TO THE CENTER OF THE OUTLET
ZONE VALVE BOX:	5'-4" (64 INCHES) TO THE TOP OF THE ZONE VALVE BOX
AREA ALARM:	5'-6" (66 INCHES) TO THE TOP OF THE ALARM
MASTER ALARM:	5'-6" (66 INCHES) TO THE TOP OF THE ALARM
NITROGEN CONTROL CABINET:	5'-2" (62 INCHES) TO THE BOTTOM OF THE PANEL
FIXED CEILING COLUMN:	5'-3" (63 INCHES) TO THE BOTTOM OF THE COLUMN
RETRACTABLE CEILING COLUMN:	5'-10" (70 INCHES) TO THE BOTTOM OF THE COLUMN
CEILING HOSE DROP:	6'-4" (76 INCHES) TO THE BOTTOM OF THE HOSE
ASSEMBLY CEILING ARMS/BOOMS:	CONSULT MANUFACTURERS RECOMMENDATIONS

MEDICAL GAS SYMBOLS

SYMBOL	DESCRIPTION
O2	MEDICAL OXYGEN PIPING
MA	MEDICAL AIR PIPING
MV	MEDICAL VACUUM PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING
N	MEDICAL NITROGEN PIPING
N20	MEDICAL NITROUS OXIDE PIPING
CO2	CARBON DIOXIDE PIPING
	MEDICAL GAS DROPS IN WALL FULL SIZE
MGO	MEDICAL GAS OUTLETS
AA	AREA ALARM PANEL
MAP	MASTER ALARM PANEL
	ZONE VALVE BOX
	MASTER ALARM / AREA ALARM SENSOR
L	LOCKABLE TYPE BALL VALVE

PLUMBING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	THERMOSTATIC MIXING VALVES
	DOMESTIC WATER BOOSTER PUMPS (DUPLEX, TRIPLEX, WITH OR W/O EXPANSION TANKS)
	STORAGE TANKS (HOT WATER, DOMESTIC WATER, FIRE PROTECTION)
	GREASE INTERCEPTOR
	SOLIDS SEPARATOR
	SAMPLING WELL
	DECONTAMINATION TANK
	SUMP PUMP
	BACKFLOW PREVENTERS (DCDA)
	BACKFLOW PREVENTERS (RPZ)
	MEDICAL VACUUM PUMPS
	MEDICAL AIR COMPRESSORS
	MEDICAL GAS ALARM PANELS
	NITROGEN CONTROL CABINETS
	INSTRUMENT AIR CONTROL CABINETS
	EOSC
	INSTRUMENT AIR COMPRESSORS
	MEDICAL AIR ZONE VALVE BOXES (SINGLE, DOUBLE, TRIPLE, QUAD)
	WALL BOX - WASHING MACHINE
	WALL BOX - ICE MACHINE
	DIALYSIS WALL BOX
	ALARM VALVE SYSTEMS (DSAV)
	ALARM VALVE SYSTEMS (PAAV)
	ALARM VALVE SYSTEMS (WSAV)
	JOCKEY & FIRE PUMP CONTROL CABINETS
	FIRE PUMP
	JOCKEY PUMP
	VACUUM PUMP
	WATER SOFTENER (SINGLE TANK)
	WATER SOFTENER (DUAL TANK, MORE TANK OPTIONS AVAILABE)
	NITROUS OXIDE MANIFOLD (TANKS ARE USER INPUTS)
	OXYGEN DEPLETION MONITOR
	CIRCULATING PUMP
	DOMESTIC WATER HEATER
	THERMAL EXPANSION TANK
	SEWAGE EJECTOR
	DOWNSPOUT NOZZLE
	FLOOR SINK
	FLOOR DRAIN
	ROOF AND OVERFLOW DRAIN
	TRENCH DRAIN
	MEDICAL GAS SENSOR SWITCHES
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	PRESSURE REGULATING VALVE
	STEAM TRAP - INVERTED VALVE

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

100% CONSTRUCTION DOCUMENT

DATE 02/06/2026

REVISIONS

#	DESCRIPTION	DATE

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: _____
Eng. Reg. No.: _____
Date: _____

SHEET TITLE

GENERAL INFORMATION - PLUMBING

SHEET NUMBER

P0.01

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1. GENERAL CONDITIONS:

A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.

B. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE UL. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER

C. CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

D. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.

E. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" APPROVAL BY THE ENGINEER. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR APPROVAL.

F. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

G. DO NOT RUN PIPING, OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS, WITHIN 42 INCHES IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36 INCHES HORIZONTALLY OF SAME SPACE.

H. PROVIDE SNAP-ON OR ADHESIVES LABELS INDICATING DOMESTIC HOT AND COLD WATER, AND MEDICAL GASES.

1. PLUMBING DEMOLITION

A. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN ORDER TO ACCURATELY DETERMINE THE EXTENT OF THE WORK AS SHOWN ON THESE DOCUMENTS.

B. EXISTING DUCTWORK SHOWN ON PLANS MAY NOT EXACTLY MATCH THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK ROUTING AND LOCATIONS AND MAKE ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS WITH NEW DUCTWORK, EQUIPMENT, LIGHT FIXTURES, ETC.

1. PRODUCTS, EQUIPMENT AND EXECUTION:

A. SANITARY DRAIN LINES (WASTE AND VENT) SHALL BE AMERICAN MANUFACTURED SERVICE WEIGHT CAST IRON OR DWV COPPER PIPE. JOINTS SHALL BE FABRICATED BY THE USE OF COMPRESSION JOINTS SIMILAR TO TYLER PIPE AND FOUNDRY'S "TY-SEAL" FOR CAST IRON PIPE OR 95/5 SOLDER FOR DWV COPPER PIPE. NO-HUB CAST IRON PIPE ASSEMBLED WITH STAINLESS STEEL/NEOPRENE HUBLESS COUPLINGS SHALL BE LIMITED TO ABOVE GROUND INSTALLATIONS.

B. DOMESTIC WATER PIPING INSTALLED ABOVE GROUND SHALL BE AMERICAN MANUFACTURED TYPE "L" HARD DRAWN COPPER ASSEMBLED WITH 95/5 SOLDER AND WROUGHT COPPER JOINT FITTINGS.

C. FITTINGS AND PIPING CONNECTED WITH PLUMBING FIXTURES SHALL BE BRASS AND, WHEREVER EXPOSED, SHALL BE POLISHED CHROME-PLATED.

D. FURNISH AND INSTALL ALL REQUIRED WATER, WASTE, AND VENT CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT, TOGETHER WITH ALL FITTINGS, SUPPORTS, FASTENING DEVICES, COCKS, VALVES, TRAPS, ETC., LEAVING ALL IN COMPLETE WORKING ORDER.

E. PLUMBING FIXTURES SHALL BE PROVIDED AS SCHEDULED ON THE DRAWINGS. PLUMBING FIXTURES SHALL BE NEW, EXCEPT WHERE NOTED, AND SHALL BE APPROVED BY THE APPLICABLE WATER CONSERVATION AUTHORITY. THE PLUMBING CONTRACTOR SHALL PROVIDE NECESSARY CHROME PLATED P-TRAPS, SUPPLIES WITH STOPS, RISERS, INLET DRAINS, ETC.

F. SHOCK ARRESTORS SHALL BE SIMILAR TO JOSAM 75000 OR AS MANUFACTURED BY PPP AND SIOUX CHIEF SIZED AS PER THE PDI.

G. CLEANOUTS SHALL BE PROVIDED IN SANITARY WASTE LINES AS SHOWN AND AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES. WALL CLEANOUTS SHALL BE SIMILAR TO JOSAM 5879 WITH BRONZE PLUG AND STAINLESS STEEL COVER. FLOOR CLEANOUTS SHALL BE SIMILAR TO JOSAM 56020 WITH CARPET MARKER FOR CARPETED FLOORS.

H. PIPE, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED FROM STRUCTURE WITH THE USE OF APPROVED TYPE CLEVIS, TRAPEZE HANGERS OR FLOOR STANDS WITH SPACING AS FOLLOWS:

1. STEEL PIPE OR COPPER TUBING - 1-1/2" OR LESS, 6 FOOT INTERVALS.

2. CAST IRON - ONE (1) HANGER PER LENGTH OF PIPE AND NOT EXCEEDING 10'-0" O.C.

3. FITTINGS - WITHIN 2'-0" OF EACH CHANGE OF DIRECTION.

I. INSULATION SHALL BE PROTECTED AT HANGERS BY A SECTION OF CALCIUM SILICATE PIPE INSULATION AND A 12" LONG HALF-ROUND SHEET METAL SHIELD ON THE OUTSIDE OF THE INSULATION. EXTEND PIPING INSULATION FULL THICKNESS WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PENETRATIONS.

J. PROVIDE AND INSTALL UNIONS AT PROPER POINTS TO PERMIT REMOVAL OF A PIPE, EQUIPMENT, ETC., WITHOUT INJURY TO OTHER PARTS OF THE SYSTEM AND TO PREVENT CORROSION DUE TO ELECTROLYSIS. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER TO PERMIT ACCESS FOR SERVICE WITHOUT DISASSEMBLY. UNIONS SHALL BE DIELECTRIC WHERE DISSIMILAR MATERIALS OCCUR. PRESSURE RATINGS SAME AS FITTINGS.

K. ALL DOMESTIC COLD WATER AND HOT WATER PIPE AND FITTINGS SHALL BE INSULATED WITH ½" THICK OWENS-CORNING FIBERGLASS 25 ASJ/SSL OR APPROVED EQUAL.

A. DOMESTIC WATER PIPES SHALL BE INSULATED WITH OWENS-CORNING ASJ-SSL-II OR APPROVED EQUAL 1" THICK FOR HOT WATER PIPE INSULATION. FITTINGS AND VALVES SHALL BE FINISHED WITH WHITE 25/50 PVC COVERS OVER MOLDED INSULATION FITTINGS. ALL JOINTS AND LAPS SHALL BE VAPOR SEALED.

B. PROVIDE INSULATION PRODUCTS MANUFACTURED BY JOHNS-MANVILLE, OWENS-CORNING, AND ARMSTRONG. FIBERGLASS PIPE INSULATION SHALL BE ASTM C547-77, CLASS 1. PROVIDE BANDS, WIRES, AND CEMENT AS RECOMMENDED BY INSULATION MANUFACTURER FOR THE APPLICATIONS INDICATED.

1. PROVIDE COMPOSITE INSULATION (INSULATION JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVE) WITH FLAME-SPREAD RATINGS OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM K04 (HFFA 255) METHOD.

2. MAINTAIN INTEGRITY OF VAPOR BARRIER JACKETS ON PIPE AND DUCTWORK INSULATION, AND PROTECT TO PREVENT PUNCTURE OR OTHER DAMAGE. SEAL OPEN ENDS OF INSULATION WITH MASTIC. SECTIONALLY SEAL ALL BUTT ENDS OF CHILLED WATER INSULATION OF FITTINGS WITH WHITE VAPOR BARRIER COATING. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED. INSTALL PROTECTIVE METAL SHIELDS AND FOAM GLASS INSERTS WHERE PIPE HANGERS BEAR ON OUTSIDE OF INSULATION.

A. ISOLATION VALVES FOR DOMSETIC WATER SYSTEM SHALL BE EQUAL TO MILWAUKEE OR NIBCO BALL VALVES AND PROVIDED AT EACH BRANCH TO A FIXTURE.

B. MEDICAL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CURRENT NFPA-99 AND HOSPITAL LICENSING CODE REQUIREMENTS, OCA P-2.1 RECOMMENDATIONS FOR MEDICAL-SURGICAL VACUUM SYSTEMS IN HEALTH CARE FACILITIES.

1. PIPING SHALL BE AMERICAN MANUFACTURED SEAMLESS TYPE 'K' HARD-DRAWN COPPER TUBING CLEANED AND SEALED FOR MEDICAL GAS USE. FITTINGS SHALL BE WROUGHT, BRASS OR BRONZE, MADE ONLY FOR BRAZED CONNECTIONS. ALL JOINTS IN THE PIPING, EXCEPT AT VALVES AND EQUIPMENT REQUIRING SCREW CONNECTIONS, SHALL BE ASSEMBLED WITH A SILVER BRAZING ALLOY. SCREWED JOINTS SHALL BE MADE-UP WITH GLYCERIN.

2. MEDICAL GAS WALL OUTLETS SHALL MATCH EXISTING MANUFACTURER, MODEL NUMBER AND FINISH OR MAY BE BEACON MEDICAL PRODUCTS TO MATCH EXISTING.

3. PROVIDE NECESSARY PIPING, FITTINGS, VALVES, ALARMS, SENSORS, WIRING, OUTLETS, ETC. AND LABOR FOR COMPLETE OPERATING SYSTEMS.

4. COLOR-CODED ADHESIVE PIPE MARKERS SHALL BE INSTALLED AT NO MORE THAN 20 FEET APART, OR ONE IN EACH ROOM. LABELS SHALL INCLUDE GAS CONTENTS, OPERATING PRESSURE AND THE DIRECTION OF FLOW ON ALL MEDICAL GASES, COMPRESSED AIR AND VACUUM PIPING.

5. THE MEDICAL AIR VACUUM PIPING SHALL ORIGINATE FROM THE EXISTING AIR AND VACUUM PIPING SYSTEMS LOCATED ABOVE THE CORRIDOR CEILING.

6. THE OXYGEN PIPING SHALL ORIGINATE FROM THE EXISTING OXYGEN DISTRIBUTION LINE ABOVE THE CORRIDOR CEILING.

7. VALVES NOT IN BOXES SHALL BE BEACON BRONZE-BODY, DOUBLE-SEAL, FULL-FLOW UNION BALL TYPE, WITH TEFLON SEATS AND SEALS, DESIGNED FOR A WORKING PRESSURE OF 27" Hg VACUUM TO 400 PSI WITH CHROME-PLATED BRASS BALLS WHICH SEAL IN BOTH DIRECTIONS. EACH VALVE SHALL BE SO DESIGNED THAT ONLY A QUARTER TURN OF THE LEVER TYPE HANDLE IS NECESSARY BETWEEN THE OPEN AND CLOSED POSITIONS. VALVE DESIGN SHALL ELIMINATE THE NEED FOR UNIONS BY PERMITTING REMOVAL OR SWING-AWAY OF THE CENTER VALVE SECTION OUT-OF-LINE. VALVES SHALL CONFORM TO NFPA STANDARDS. VALVES SHALL BE SUPPLIED PROPERLY WASHED FOR OXYGEN SERVICE. GAS SERVICE LABELS SHALL BE PROVIDED FOR EACH SERVICE AS REQUIRED.

8. WALL SERVICE OUTLETS SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS AND SHOWN ON ARCHITECTURAL ELEVATIONS.

9. OUTLETS TO MATCH EXISTING OR SHALL BE BEACON RECESSED WALL OUTLET ASSEMBLY OF THE TYPE LISTED BELOW.

a. OXYGEN 0221-7804-810 DIAMOND III

b. VACUUM 0221-7804-812 DIAMOND III

c. AIR 0221-7804-813 DIAMOND III

1. BEFORE ERECTION, ALL PIPE, TUBING, VALVES AND FITTINGS (EXCEPT THOSE SUPPLIED EXPRESSLY CLEANED FOR OXYGEN SERVICES BY MANUFACTURER) SHALL BE THOROUGHLY CLEANSED OF ALL GREASE, OIL OR OTHER READILY OXIDIZABLE MATERIALS BY WASHING IN A HOT SOLUTION OF SODIUM CARBONATE OR TRISODIUM PHOSPHATE MIXED IN EQUAL PROPORTIONS OF ONE POUND TO THREE GALLONS OF WATER. SCRUBBING AND CONTINUOUS AGITATION OF THE PARTS SHALL BE EMPLOYED WHERE NECESSARY TO REMOVE ALL DEPOSITS AND INSURE COMPLETE CLEANSING. AFTER WASHING, ALL MATERIALS SHALL BE RINSED THOROUGHLY IN CLEAN, HOT WATER. AFTER CLEANSING, GREAT CARE MUST BE EXERCISED IN THE STORAGE AND HANDLING OF ALL MATERIALS AND IN THE CONDITION OF TOOLS USED IN CUTTING AND REAMING TO PREVENT OIL OR GREASE BEING INTRODUCED INTO THE TUBING. WHERE SUCH CONTAMINATION IS KNOWN TO HAVE OCCURRED, THE MATERIALS AFFECTED MUST BE REWASHED AND THEN RINSED.

2. AFTER INSTALLATION OF THE PIPING, BUT BEFORE INSTALLATION OF THE STATION OUTLETS AND OTHER MEDICAL GAS SYSTEM COMPONENTS (e.g., PRESSURE-ACTUATING SWITCHES FOR ALARMS, MANIFOLDS, PRESSURE GAUGES OR PRESSURE RELIEF VALVES), THE LINE SHALL BE BLOWN CLEAR BY MEANS OF OIL-FREE, DRY AIR OR NITROGEN. THE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 99 4-5.1.3 "MEDICAL GAS SYSTEM TEST".

3. ALL PIPING SHALL BE SUPPORTED WITH COPPER-CLAD HANGERS WITH POLYSTYRENE OR NEOPRENE INSERTS OR PADS AT APPROPRIATE INTERVALS AND NOT SUPPORTED BY OTHER PIPING.

1. RECORDS FOR OWNER:

A. CONTRACTOR SHALL KEEP A CLEAN SET OF DRAWINGS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN THESE DRAWINGS IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITIES AND SHALL TURN OVER A DIGITAL PDF SET OF DRAWINGS SHOWING "AS INSTALLED" WORK TO THE ARCHITECT FOR SUBSEQUENT REVIEW AND TRANSMITTAL TO THE OWNER. CONTRACTOR SHALL NOTE ALL CONSTRUCTION CHANGES, DATE EACH SHEET AND LABEL "AS-BUILTS" IN THE REVISION BLOCK ON THE DRAWINGS.

B. IN ADDITION TO THE ABOVE, CONTRACTOR SHALL ACCUMULATE DURING THE JOB'S PROGRESS, THE FOLLOWING DATA, IN TRIPLICATE, PREPARED IN A NEAT BROCHURE OR PACKET FOLDER AND TURNED OVER TO THE ARCHITECT FOR REVIEW AND SUBSEQUENT DELIVERY TO THE OWNER.

1. ALL WARRANTIES AND GUARANTEES AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND MATERIAL COVERED BY THE CONTRACT INCLUDING THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF THE MANUFACTURER'S REPRESENTATIVE.

2. APPROVED FIXTURE BROCHURES, WIRING DIAGRAMS AND CONTROL DIAGRAMS (ORIGINAL DATA, NO COPIES).

3. COPIES OF APPROVED SHOP DRAWINGS.

4. ANY AND ALL OTHER DATA AND/OR DRAWINGS REQUIRED DURING CONSTRUCTION.

5. REPAIR PARTS LISTS OF ALL MAJOR ITEMS AND EQUIPMENT INCLUDING NAME, ADDRESS AND TELEPHONE NUMBERS OF LOCAL SUPPLIER OR AGENT.

6. VALVE TAG CHARTS AND DIAGRAMS.

A. ALL OF THE ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AT SUCH TIME AS THE CONTRACTOR SUBMITS HIS LAST ESTIMATE PRIOR TO HIS FINAL PAYMENT, BUT IN NO CASE, LESS THAN TWO WEEKS BEFORE FINAL INSPECTION.

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COMMUNITY HOSPITAL MOB 1 PET CT

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SHEET TITLE

SPECIFICATIONS - PLUMBING

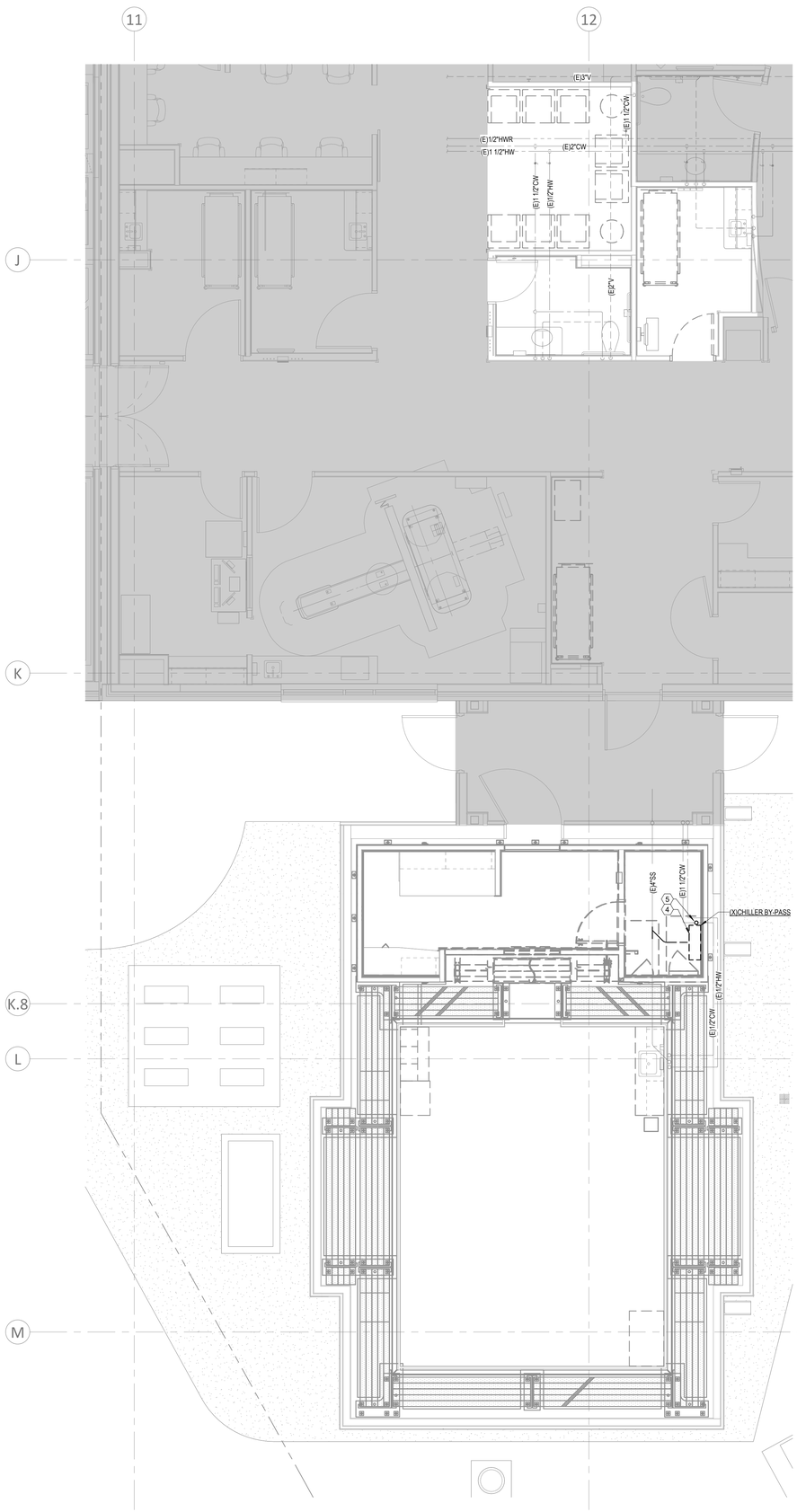
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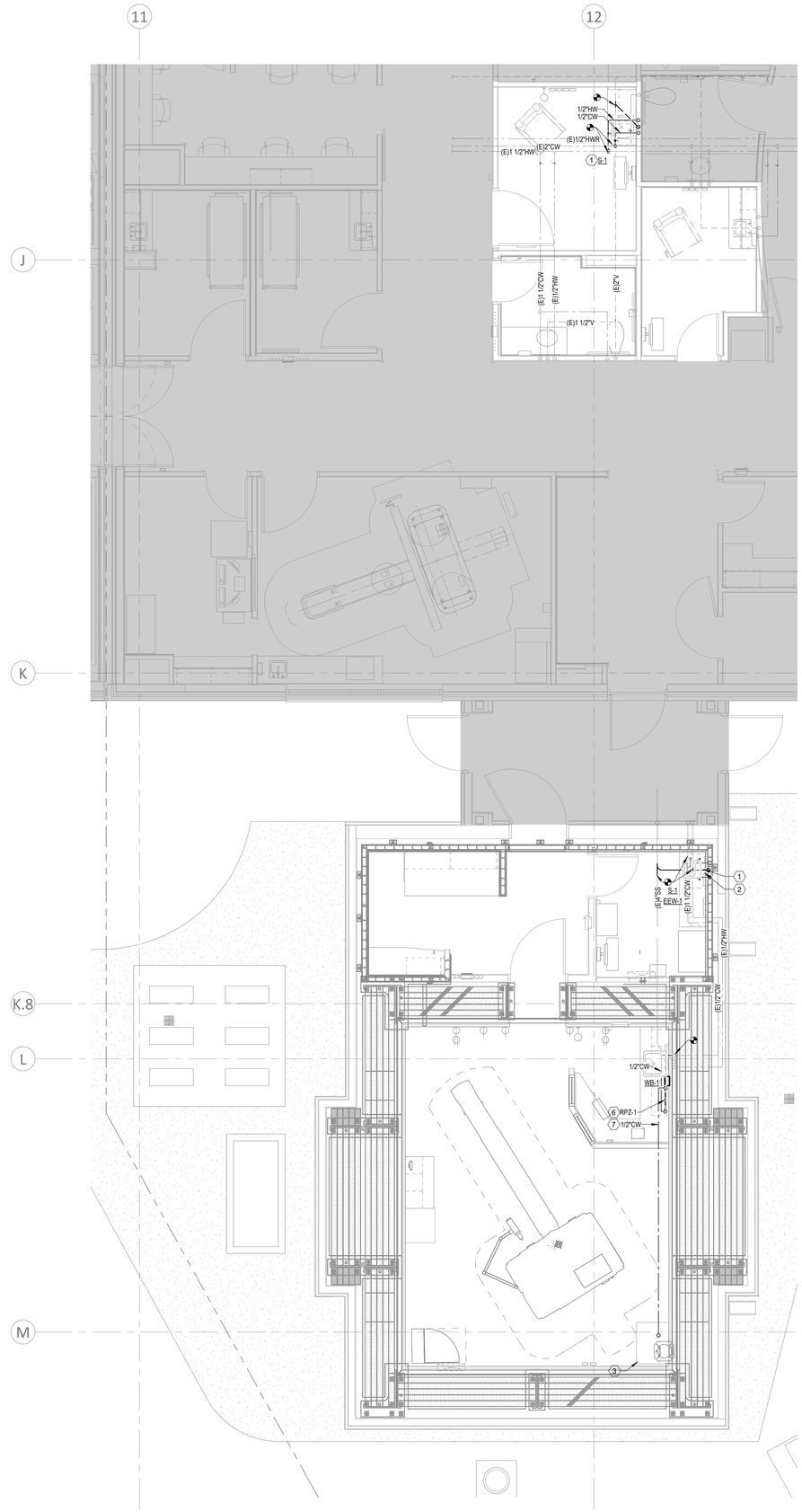
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2 DEMO PLAN - FLOOR - PLUMBING
P2.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - PLUMBING
P2.11 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

#	
1	CONTRACTOR TO EXTEND SANITARY, VENT, AND DOMESTIC WATER TO NEW PLUMBING FIXTURE.
2	CONTRACTOR TO EXTEND DOMESTIC COLD WATER FROM NEW SINK TO EYEWASH/ MAKE ALL FINAL CONNECTIONS AS PER MANUFACTURES RECOMMENDATIONS.
3	CONTRACTOR TO EXTEND 1/2" DOMESTIC COLD WATER FROM SINK TO NEW WALL MOUNTED HUMIDIFIER. MAKE ALL FINAL CONNECTIONS AS PER MANUFACTUORS RECOMMENDATIONS
4	REMOVE EXISTING CHILLER BY-PASS AND ALL ASSOCIATED SANITARY, VENT, AND DOMESTIC WATER BACK EXTENT INDICATED AND CAP FOR ABANDONMENT.
5	CONTRACTOR TO REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED SANITARY AND VENT PIPING BACK TO WALL. TEMPORARILY CAP FOR EXTENSION.
6	INSTALL NEW RPZ BELOW COUNTERTOP. SURFACE MOUNT VALVE AND ROUTE DRAIN DISCHARGE TO ADJACENT WALL BOX. FIELD COORDINATE EXACT LOCATION AND ROUTING.
7	CONTRACTOR SHALL FIELD FIT CULLIGAN RO FILTER MANIFOLD UNDERCOUNTER (MINIMUM CAPACITY OF 3.3 GPM). MAKE ALL FINAL CONNECTIONS PAS PER MANUFACTURER'S RECOMMENDATIONS.

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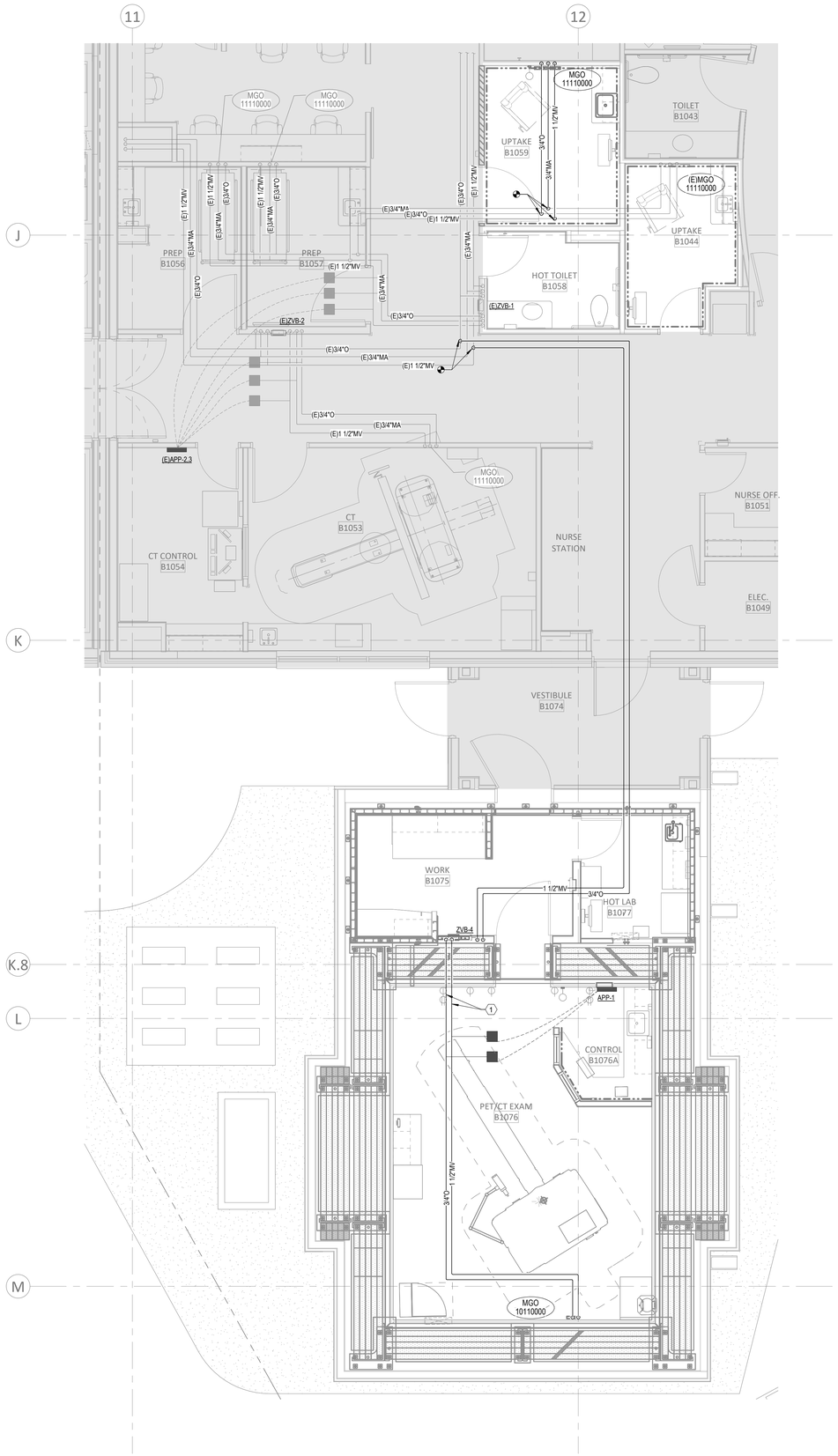
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FLOOR PLAN - PLUMBING

SHEET NUMBER

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1 FLOOR PLAN - FLOOR 1 - AREA A - MEDICAL GAS
P3.11 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

1 CONTRACTOR TO USE EXISTING PENETRATIONS FROM CONDUIT REMOVAL AS A PATH FOR MEDICAL GASES THROUGH SHIELDING.

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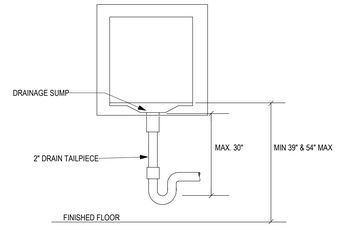
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FLOOR PLAN - MEDICAL GAS

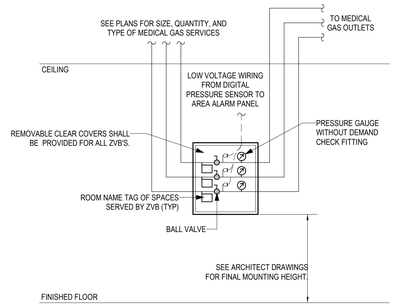
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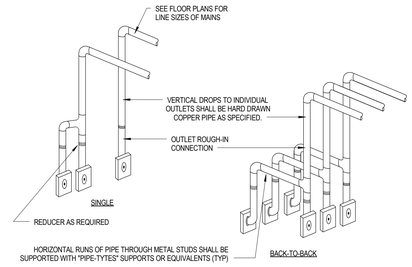
3 WALL BOX CONNECTION BOX
NOT TO SCALE



NOTE:
1. ALL ZONE VALVE BOXES TO BE PIPED LEFT TO RIGHT.
2. PROVIDE CONSISTENCY THROUGHOUT HOSPITAL FOR MOUNTING HEIGHT OF ZVB. COORDINATE EXACT LOCATION WITH ALL OTHER ITEMS ASSOCIATED WITH WALL IN IMMEDIATE VICINITY OF ZVB.

2 TYPICAL (ZVB) ZONE VALVE BOX DETAIL
NOT TO SCALE

MINIMUM PIPE SIZE FOR MEDICAL GAS SYSTEMS	
SERVICE	NOMINAL PIPE SIZE
OXYGEN	1/2"
MEDICAL AIR	1/2"
MEDICAL VACUUM	3/4"



1 MEDICAL GAS RISER SCHEMATIC AT PATIENT ROOMS
NOT TO SCALE

BACK FLOW PREVENTER

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL	INLET DIAMETER [IN]	OUTLET DIAMETER [IN]	MINIMUM FLOW [GPM]	MAXIMUM FLOW [GPM]	REMARKS
RZP 1/2"	b1076A - CONTROL	MECHANICAL HUMIDIFIER	WATTS	LF 009QT	1/2"	1/2"	0.25	15	ROUTE DRAIN PIPING TO NEAREST OPEN SITE DRAIN WITH 1" AIR GAP. FIELD COORDINATE EXACT ROUTING

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	WASTE	VENT	CW	HW	EQUIPMENT
EEW-1	EMERGENCY EYEWASH SINK FAUCET	-	-	1/2"	1/2"	EMERGENCY EYEWASH FAUCET: GUARDIAN MODEL G1778, WALL MOUNTED, SWING DOWN OPERATED EMERGENCY FACE AND EYE WASH. INSTALL WITH MANUFACTURER SUPPLIED MIXING VALVE, G6020 OR EQUIVALENT, WITH A DISCHARGE TEMPERATURE OF 90-95 DEGREES. CONTRACTOR TO COORDINATE RIGHT OR LEFT HAND SWING.
S-1	INTEGRAL SINK	2"	2"	1/2"	1/2"	LAVATORY: THE LAVATORY SHALL BE INCLUDED (INTEGRAL) WITH THE COUNTERTOP. FAUCET: AMERICAN STANDARD MODEL 7500 MONTERREY GOOSENECK SPOUT FAUCET WITH 4" WRIST BLADE HANDLES. LAMINAR OUTLET. MIXING VALVE: WILKINS MODEL NO. ZW3870XLT-4PC POINT OF USE THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED. STRAINER/TAILPIECE: PROFLO MODEL NO. PFWTST CHROME PLATED BRASS 4-1/2" WIDE STRAINER WITH 1-1/2" 20 GAUGE TAILPIECE. P-TRAP: PROFLO MODEL NO. PFPTB403 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
WB-1	WALL BOX	2	2"	-	-	DRAIN BOX: OATEY MODA, LESS WATER BOX CONNECTIONS. WHITE, PLASTIC WITH 1-1/2" SANITARY CONNECTION. INSTALL DRAIN BOX WITH TOP HOLE FOR CONDENSATE DRAIN.

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DETAILS & SCHEDULES - PLUMBING

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GENERAL NOTES - ELECTRICAL

GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING HIS BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, HE SHALL, AT HIS OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN HIS WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE FACILITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
8. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
10. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO SWITCHGEAR, CONDUIT, WIRE, BOXES AND FITTINGS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND SHALL BEAR THE UL LABEL.
11. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

ELECTRICAL EQUIPMENT

1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
2. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

CONDUIT & RACEWAY

1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER N.E.C. AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SUPPORTS NECESSARY FOR THE RACEWAY SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO BLOCKING FOR SURFACE AND FLUSH MOUNTED PANELS. CONTRACTOR SHALL REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZES AND QUANTITIES OF ALL SUPPORTING MEANS.
4. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
5. THE CONTRACTOR SHALL SEAL ALL CONDUITS THAT PENETRATE THE FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. 483 "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
7. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

BRANCH CIRCUITS AND FEEDERS

1. UNLESS NOTED OTHERWISE, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' SHALL BE MINIMUM #8 AWG WIRE SIZE.
2. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. CONDUCTOR SIZES #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR SIZES #10 AWG AND LARGER MAY BE STRANDED.
3. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR.
4. CONTRACTOR SHALL GROUND ALL EQUIPMENT AND ELECTRICAL SYSTEM PER N.E.C.

WIRING DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
4. PROVIDE METAL BACKBOX MOUNTING BRACKET (CADDY #BS5 SERIES OR SIMILAR) TO MOUNT DEVICE BETWEEN METAL/WOOD STUDS AT SAME ELEVATION AND EQUAL SPACING.
5. CONTRACTOR SHALL VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
6. MOUNT ALL RECEPTACLES THROUGHOUT THE PROJECT WITH THE GROUND POLE AT THE TOP OF THE CONFIGURATION WHEN MOUNTED VERTICALLY, AND ON THE RIGHT WHEN MOUNTED HORIZONTALLY.
7. ALL RECEPTACLES WITHIN SIX FEET OF ANY PLUMBING FIXTURE AND/OR SINK SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
8. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
9. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
10. FINISH COLORS OF DEVICES AND CORRESPONDING COVER PLATES SHALL BE SELECTED AND APPROVED BY THE ARCHITECT. SPECIALTY RECEPTACLES AND COVERPLATES (I.E. ISOLATED GROUND, EMERGENCY, CRITICAL BRANCH, SURGE SUPPRESSION, ETC.) SHALL BE THE COLOR NOTED IN ELECTRICAL CONSTRUCTION DOCUMENTS.

LIGHTING SYSTEM

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
3. LIGHT SWITCHES LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
4. WALLBOX DIMMERS SHALL BE INSTALLED IN A MANNER SUCH THAT THEIR LISTED WATTAGE IS NOT DERATED DUE TO HEAT. SPACE ACCORDING TO DIMMER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE 'WIDE-FIN' DESIGN DIMMERS WHERE REQUIRED.
5. ALL LIGHT FIXTURES SHALL BE INSTALLED WITH APPROPRIATE LAMPS AS INDICATED. FIXTURES SHALL ALSO BE INSTALLED WITH BALLASTS WHERE NECESSARY.

OCCUPANCY SENSOR NOTES:

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
   A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT;
   B. SEVERAL SENSORS AND ADD-A-RELAYS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK, NOT TO EXCEED 150mA TOTAL POWER CONSUMPTION.
   C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.

MECHANICAL & PLUMBING COORDINATION

1. CONTRACTOR SHALL REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE MOUNTED INDEPENDENTLY OF THE EQUIPMENT.
3. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
4. CONTRACTOR SHALL COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.
5. CONTRACTOR SHALL COORDINATE MOTOR DISCONNECT AND CONTROL WITH MECHANICAL DRAWINGS AND BETWEEN TRADES.
6. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
7. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.

EMERGENCY POWER SYSTEM

1. ALL EMERGENCY SYSTEMS SHALL BE RUN IN A SEPARATE RACEWAY/CONDUIT SYSTEM AND SHALL BE CLEARLY LABELED AS SUCH.

DOOR HARDWARE COORDINATION

1. CONTRACTOR SHALL PROVIDE 120V, 20A CIRCUIT CONNECTION TO ALL DOOR HEADERS WITH ELECTRONIC DEVICES. EACH DOOR CONNECTION SHOULD BE PROVIDED WITH LOCAL DISCONNECTING MEANS.
2. COORDINATE ALL DOOR CONNECTIONS WITH FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS FOR CONNECTION TO ELECTRONICALLY OPERATED DOORS. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS WITH AN EXTERNAL TEST SWITCH FOR FACILITY TESTING.

DEMOLITION NOTES

1. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
2. INFORMATION PROVIDED ON THESE DRAWINGS HAS BEEN TAKEN FROM DESIGN DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
3. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGINATION. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
4. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
5. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
6. DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
7. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
8. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.
9. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER, WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
10. REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
11. ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
12. ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.
13. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL SERVICE OUTAGES REQUIRED TO PROPERLY EXECUTE THIS PROJECT WITH OWNERS AUTHORIZED REPRESENTATIVE AND UTILITY COMPANY. PERFORM ALL WORK AS DIRECTED. INCLUDE SUITABLE ALLOWANCE IN BASE BID FOR ALL REQUIRED PREMIUM TIME, TEMPORARY EXTRA EQUIPMENT AND/OR MATERIALS FOR A COMPLETE AND OPERABLE INSTALLATION.

LIGHTING CONTROL SYSTEM COMMISSIONING

LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH 2021 INTERNATIONAL ENERGY CODE SECTION C408. A FUNCTIONAL TESTING REPORT PROVIDED BY A THIRD PARTY COMMISSIONING AGENT SHALL BE PROVIDED TO THE OWNER AND AUTHORITY HAVING JURISDICTION. IT IS THE RESPONSIBILITY OF THE COMMISSIONING AGENT TO PROVIDE COMMISSIONING SCOPE OF WORK AND DOCUMENTATION FOR THE LIGHTING CONTROL SYSTEM WHICH INCLUDES THE FOLLOWING:

1. FUNCTION TEST TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENESORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED;
   A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY YIELD ACCEPTABLE PERFORMANCE.
   B. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
   C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN SPACE AS SPECIFIED.
3. FUNCTIONAL TESTING REPORT.

SEE 2021 IECC FOR COMPLETE LIST OF REQUIREMENTS.

MECHANICAL / ELECTRICAL SYSTEM COORDINATION SCHEDULE

SYSTEM	FURNISHED BY	INSTALLED BY	POWER WIRING BY	CONTROL OR SUPERVISION WIRING BY
LIFE SAFETY SYSTEM	---	---	---	---
SMOKE DAMPER / ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
FIRE/SMOKE DAMPER / ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
DUCT SMOKE DETECTOR	DIV 28	DIV 28	--	DIV 28
FIREFIGHTER'S SMOKE CONTROL PANEL	DIV 28	DIV 28	DIV 26	DIV 28
NURSE CALL / FIRE ALARM INTERFACE	DIV 28	DIV 28		DIV 28
FIRE SPRINKLER SYSTEM	DIV 21	DIV 21	DIV 26	DIV 28
WATERFLOW SWITCHES	DIV 21	DIV 21	--	DIV 28
TAMPER SWITCHES	DIV 21	DIV 21	--	DIV 28
SUPERVISORY CONTACTS	DIV 21	DIV 21	--	DIV 28
MEDICAL GAS ALARM	DIV 22	DIV 22	DIV 26	DIV 22
MOTOR STARTERS (INTEGRAL TO EQUIP.)	DIV 22/23	--	DIV 26	DIV 23
MOTOR STARTERS (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
COMBINATION MOTOR STARTER / DISCONNECT (INTEGRAL TO EQUIP.)	DIV 22/23	--	DIV 26	DIV 23
COMBINATION MOTOR STARTER / DISCONNECT (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
VARIABLE FREQUENCY DRIVES (VFD'S)	DIV 26	DIV 26	DIV 26	DIV 23
DISCONNECT SWITCHES (NON-INTEGRAL TO EQUIPMENT)	DIV 26	DIV 26	DIV 26	---

THIS TABLE IS PROVIDED AS A GUIDE TO THE DOCUMENT PREPARATION AND IN NO WAY INDICATES CONTRACTOR MEANS AND METHODS

DATA SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
▽	DATA OUTLET	18" WALL AFF
▽	DATA OUTLET, ABOVE COUNTER	48" WALL AFF
W ▽	WALL PHONE OUTLET	48" WALL AFF
▽	FLOOR MOUNTED DATA OUTLET	FLOOR
▽	CEILING MOUNTED DATA OUTLET	ABOVE ACC. CLG.

DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

TELEVISION SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
TV ▽	TELEVISION OUTLET	SEE NOTE 2

DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. COORDINATE FINAL OUTLET LOCATION WITH PROVIDED TELEVISION MOUNTING BRACKETS.

ELECTRICAL ABBREVIATIONS

AAP	AREA ALARM PANEL	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISHED COUNTER	MDP	MAIN DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
BFC	BELOW FINISHED CEILING	MLO	MAIN LUGS ONLY
BOF	BOTTOM OF FIXTURE	MTD	MOUNTED
C	CONDUIT	N	NEW DEVICE
CB, C/B OR CKT BRK	CIRCUIT BREAKER	NC, (N.C.)	NORMALLY CLOSED
CKT	CIRCUIT	NEC	NATIONAL ELECTRIC CODE
CCTV	CLOSED CIRCUIT T.V.	NF	NONFUSED
CLG	CEILING	NIC	NOT IN CONTRACT
CUH	CABINET UNIT HEATER	NL	NIGHT LIGHT
EC	EMPTY CONDUIT	NO, (N.O.)	NORMALLY OPEN
ELEC	ELECTRIC	PB	PULL BOX
E	EMERGENCY	PNL	PANEL
EMS	ENERGY MANAGEMENT SYSTEM	PWR	POWER
EP	EXPLOSION PROOF	R	REMOVE DEVICES
EWC	ELECTRIC WATER COOLER	RL	RELOCATED DEVICE
EX	EXISTING	RCPT(S), OR RECEPT	RECPETACLE(S)
F	FUSE	RF	RETURN AIR FAN
FA	FIRE ALARM	SEF	SMOKE EXHAUST FAN
FACP, FAP	FIRE ALARM CONTROL PANEL	SF	SUPPLY AIR FAN
FCU	FAN COIL UNIT	SO (S.O.)	SPACE ONLY
FIXT	FIXTURE	SP	SPARE
FLR	FLOOR	SPD	SURGE-PROTECTIVE DEVICE
FLUOR	FLUORESCENT	ST (S.T.)	SHUNT TRIP
FTPS, FTS	FAN TERMINAL UNIT	SW	SWITCH
FTU	FAN TERMINAL UNIT	TEL	TELEPHONE
FUT	FUTURE	TF	TRANSFER FAN
G, GND	GROUND	TP	TAMPER PROOF
GEF	GENERAL EXHAUST FAN	TV	TELEVISION
GEN	GENERATOR	UF	UNDERFLOOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
H	DEVICE MOUNTED HORIZONTALLY	UH	UNIT HEATER
HP	HORSEPOWER	UNO (UON)	UNLESS OTHERWISE NOTED
HV	HIGH VOLTAGE	V	VOLTAGE
HWAT	HEAT TRACE	VFD	VARIABLE FREQUENCY DRIVE
IC	INTERRUPTING CAPACITY	VP	VAPOR PROOF
ICAND	INCANDESCENT	VV	VARIABLE VOLUME UNIT
IG	ISOLATED GROUND	W	WIRE
JB	JUNCTION BOX	WI	WITH
KEF	KITCHEN EXHAUST FAN	WG	WIRE GUARD
LTG	LIGHTING	WP	WEATHERPROOF
LTS	LIGHTS	WT	WATERTIGHT
LV	LOW VOLTAGE	XFMR	TRANSFORMER
MATV	MASTER ANTENNA	*xx	MOUNTING HEIGHT IN INCHES. AFF UNO.
MCB	MAIN CIRCUIT BREAKER		

KEY TO GENERAL NOTATIONS AND MOUNTING HEIGHTS

48" AFF INDICATES TO TOP OF DEVICE;
18" AFF INDICATES TO CENTER OF DEVICE;
60" AFF INDICATES TO BOTTOM OF DEVICE;
80" AFF INDICATES TO BOTTOM OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

(#) LEGEND NOTE: DENOTES "SEE LEGENDS NOTE #"

REF: 02/E-202 - DENOTES: REFERENCE 02 ON DRAWING (SHEET) E-202

20.4 - FEEDER TAG. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE.

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	GRAND JUNCTION, COLORADO
APPLICABLE CODES:	
BUILDING	2021 IBC
MECHANICAL	2021 IMC
PLUMBING	2021 IPC
ENERGY	2021 IECC
ELECTRICAL	2023 NEC
FIRE	2021 IFC
LATITUDE:	
DEG. N. LAT.	39°07'
ELEVATION:	
FT. ABOVE SEA LEVEL	4,583

LIGHTING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT B

ELECTRICAL HEALTHCARE DRAWING SPECIFICATIONS

1. GENERAL CONDITIONS

A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES.

B. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL EXISTING SYSTEMS, EQUIPMENT OR MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

C. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.

D. CONTRACTOR SHALL INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.

F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" ACCEPTANCE BY THE ENGINEER. SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR ACCEPTANCE. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.

G. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

H. INSTALL EQUIPMENT WITH WORKING CLEARANCES COMPLYING WITH NEC 110-16 AND 110-34.

I. VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS:

1. DELEGATED DESIGN: DESIGN SUPPORTS FOR VIBRATION AND SEISMIC CONTROLS, INCLUDING COMPREHENSIVE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

a. DO NOT USE MORE THAN ONE PRE-APPROVED SEISMIC-FORCE RESISTANCE SYSTEM ON ANY SINGLE RUN OF PIPE, DUCT OR CONDUIT. MIXING OF PRE-APPROVED SYSTEMS IS NOT ACCEPTABLE.

2. SEISMIC-RESTRAINT LOADING: IN PREPARATION OF DELEGATED DESIGN, UTILIZE SEISMIC FORCES AS DESCRIBED IN ASCE 7-16 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" AS PUBLISHED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS, UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.

a. SEISMIC DESIGN CLASS AS DEFINED IN THE IBC.

3. IN SUBMITTAL REVIEW CONFERENCE: AT TIME OF DELEGATED DESIGN SHOP DRAWING SUBMISSION, SCHEDULE A SUBMITTAL REVIEW CONFERENCE WITH THE ARCHITECT AND STRUCTURAL ENGINEER-OF-RECORD FOR THE PROJECT. THE PURPOSE OF THIS CONFERENCE IS TO REVIEW ATTACHMENT LOCATIONS AND INSURE SUPPLEMENTARY FRAMING THAT IS NEEDED TO REVISIT THE LOADS, MAINTAIN STABILITY OR TO MEET OTHER INSTALLATION REQUIREMENTS OF A PRE-APPROVED SYSTEM HAVE BEEN ACCOUNTED FOR IN THE STRUCTURAL ENGINEER-OF-RECOR'S DESIGN.

1. PRODUCTS

A. CONDUIT

1. RIGID STEEL CONDUIT (GRC - GALVANIZED RIGID CONDUIT): CONSTRUCTED OF MILD STEEL PIPING, GALVANIZED INSIDE AND OUTSIDE, CONFORMING WITH FED. SPEC. WW-C-581C, ANSI C80.1 AND APPLICABLE UL STANDARDS.

2. INTERMEDIATE METAL CONDUIT (IMC): CONSTRUCTED OF ZINC COATED STEEL TUBING MANUFACTURED IN ACCORDANCE WITH UL-1242 AND MEETING THE REQUIREMENTS OF THE NEC.

3. ELECTRIC METALLIC TUBING (EMT): OF HIGH GRADE STEEL MANUFACTURED SPECIFICALLY TO STANDARDS ASSURING MAXIMUM WELDING CHARACTERISTICS AND DUCTILITY, AND SHALL CONFORM TO FED. SPEC. WW-T-806b.

4. FLEXIBLE METAL CONDUIT: MANUFACTURED OF MILD STEEL STRIP MATERIAL HAVING A HOT-DIP GALVANIZED COATING AND MEETING REQUIREMENTS OF FED. SPEC. WW-C-566b.

5. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT AS SPECIFIED HEREIN WITH A COPPER GROUNDING STRAND AND FACTORY-APPLIED NEOPRENE JACKET. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE UL LISTED, EQUIVALENT TO ANACONDA "SEALTITE", TYPE UA.

6. METAL-CLAD CABLE MAY BE USED. TYPE HCF-MC METAL CLAD CABLE SHALL CONSIST OF FACTORY ASSEMBLED INSULATED CONDUCTORS ENCLOSED IN A METALLIC SHEATH OF INTERLOCKED GALVANIZED STEEL STRIP MANUFACTURED IN ACCORDANCE WITH UL 5169. THE CONDUCTORS SHALL HAVE AN OPERATING TEMPERATURE OF 90 DEGREE C AND SHALL BE COVERED BY A HIGH DIELECTRIC STRENGTH ASSEMBLY TAPE. TYPE HCF-MC CABLE SHALL BE AS MANUFACTURED BY AFC OR EQUAL.

B. COUPLINGS AND TERMINATORS

1. FOR RIGID STEEL OR INTERMEDIATE METAL CONDUIT: FACTORY-MADE THREADED COUPLINGS OF SAME MATERIAL AS THE CONDUIT.

2. FOR ELECTRICAL METALLIC TUBING: STEEL SET SCREW COUPLINGS; STEEL SET SCREW BOX CONNECTORS WITH NYLON INSULATED THROAT AND LOCKNUTS AT ALL BOXES AND CABINET TERMINATIONS OR NON-INSULATED BOX CONNECTOR, LOCKNUT AND NYLON-INSULATED GROUNDING BUSHING ON ALL TUBING WHERE GROUNDING BUSHINGS ARE REQUIRED.

3. FOR FLEXIBLE METAL CONDUIT: COUPLINGS AT CONNECTIONS BETWEEN FLEXIBLE CONDUIT AND EMT, AND NYLON INSULATED THROAT STEEL CONNECTORS AT BOX OR CABINET TERMINATIONS.

C. JUNCTION AND PULL BOXES

1. SIZE BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. BOXES SHALL BE NO SMALLER THAN 4 INCHES SQUARE BY 1-1/2 INCHES DEEP WITH COVERS ACCESSIBLE AT ALL TIMES. SET BOXES ON CONCEALED CONDUITS WITH COVERS FLUSH WITH THE FINISHED WALL OR CEILING LINE. PROVIDE JUNCTION AND PULL BOXES OF APPROPRIATE DIMENSIONS FOR CONDUITS AND CONDUCTORS NOTED, WHERE SHOWN AND WHERE NECESSARY FOR THE INSTALLATION AND PULLING OF CABLES AND WIRES. INSTALL COVERS ON JUNCTION BOXES AND CONDULETS AFTER WIRING AND CONNECTIONS ARE COMPLETED.

D. OUTLET BOXES

1. OUTLET BOXES SHALL BE UL LISTED, AND OF SIZES AND TYPES REQUIRED FOR THE APPLICATION. OUTLET BOXES SHALL BE SHEET STEEL, NO LIGHTER THAN 14 GAUGE, GALVANIZED AFTER FABRICATION. SET BOX SO FACE OF BOX WILL FINISH FLUSH WITH BUILDING SURFACE.

a. FOR LIGHTING FIXTURE OUTLETS: 4 INCH SQUARE BY 1-1/2 INCHES DEEP WITH RAISED FIXTURE RING.

b. FOR WALL SWITCHES, RECEPTACLES, AND COMMUNICATION USE: 4 INCH SQUARE, BY 1-1/2 INCHES DEEP. USE BOXES WITH PLASTER RINGS IN ALL PLASTERED WALLS WHERE WALL THICKNESS PERMITS. USE BOXES LESS THAN 1-1/2 INCH DEEP ONLY IN LOCATIONS WHERE DEEP BOXES CANNOT BE ACCOMMODATED BY CONSTRUCTION.

E. WIREWAY

1. UL LISTED; SIZED INDICATED OR REQUIRED; HINGED COVER, SECURED WITH CAPTIVE SCREWS; COMPLETE WITH ALL REQUIRED FITTINGS, COUPLINGS, HANGERS AND ACCESSORIES.

2. CORROSION RESISTANT PRIMER AND ANSI GRAY EPOXY PAINT FINISH. CORROSION RESISTANT BOLTS OR SCREWS. SCREWS OR BOLTS INSTALLED TOWARD THE INSIDE FITTED WITH SPRING NUTS OR OTHERWISE PREVENTED FROM DAMAGING CONDUCTOR INSULATION.

F. PULL CORDS

1. PROVIDE A NYLON POLYETHYLENE CORD, WITH A TENSILE STRENGTH OF NOT LESS THAN 200 POUNDS, IN EACH EMPTY CONDUIT TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS. INCORPORATE PLASTIC TAGS FOR IDENTIFICATION.

G. CONDUCTORS

1. CONDUCTORS SHALL BE 98% CONDUCTIVITY SOFT DRAWN ANNEALED COPPER, 600 VOLT, THHN/THWN INSULATION, #10 AND SMALLER - SOLID, #8 AND LARGER - STRANDED.

2. NO CONDUCTORS SHALL BE SMALLER THAN NO. 12, EXCEPT FOR SIGNAL OR CONTROL CIRCUITS AND FOR INDIVIDUAL LIGHTING FIXTURE TAPS AS PERMITTED BY NEC.

3. FOR HOME RUNS ON 120-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 100 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.

4. FOR HOME RUNS ON 277-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 200 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.

H. WIRING DEVICES, COVER PLATES AND ACCESSORIES

1. PROVIDE WIRING DEVICES AND ASSOCIATED ACCESSORIES OF SPECIFICATION GRADE. DEVICES OF LEVITON, HUBBELL OR PASS & SEYMORE ARE ACCEPTABLE. SUBMIT FOR REVIEW A COMPLETE LIST OF ANY SUBSTITUTES OFFERED FROM THOSE SPECIFIED.

2. COLOR OF WALL SWITCHES, RECEPTACLES AND FACEPLATES: AS SPECIFIED OR SELECTED BY ARCHITECT.

3. WHERE LIGHTING CIRCUITS ARE SHOWN TO BE LINE VOLTAGE SWITCHED, PROVIDE WITH SPECIFICATION GRADE, HORSEPOWER RATED, UL LISTED, BACK- AND SIDE-WIRED, TOGGLE SWITCHES RATED 20-AMP, 120 VOLTS OR 277 VOLTS. SWITCHES SHALL BE SPST, DPST, 3-WAY OR 4-WAY, WITH OR WITHOUT PILOT LIGHT, AS INDICATED ON THE DRAWINGS.

4. RECEPTACLES

a. STANDARD WALL RECEPTACLES SHALL BE HOSPITAL GRADE, RATED 20-AMP, 120-VOLT, 2 POLE, 3-WIRE, GROUNDING TYPE, SIDE-WIRED, NEMA 5-20R.

b. SPECIAL PURPOSE RECEPTACLES SHALL BE SPECIFICATION GRADE DEVICES FOR THE NEMA CONFIGURATIONS SCHEDULED OR INDICATED ON THE DRAWINGS.

c. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE 20 AMP, 120 VOLT, 2 POLE, 3-WIRE, NEMA 5-20R.

d. ISOLATED GROUND RECEPTACLES SHALL BE 20A, 120 VOLT, 2 POLE, 3-WIRE, NEMA IG5-20R.

5. MAINTAIN GROUNDING CONTINUITY BETWEEN DEVICES AND METALLIC RACEWAY SYSTEM IN ADDITION TO PROVIDING A GREEN EQUIPMENT GROUNDING CONDUCTOR RUN WITH ALL CIRCUIT CONDUCTORS AS INDICATED ON THE DRAWINGS; EXCEPT CARE SHALL BE TAKEN WHEN INSTALLING RECEPTACLES HAVING ISOLATED GROUND POLE SO AS TO NOT BOND THE EQUIPMENT GROUND CONDUCTOR TO THE CONDUIT SYSTEM.

I. TRANSFORMERS

1. TRANSFORMER KVA AND VOLTAGE RATINGS: AS INDICATED ON THE DRAWINGS.

2. GENERAL LIGHTING AND DISTRIBUTION TRANSFORMERS

a. TRANSFORMER COILS: CONTINUOUS WOUND CONSTRUCTION AND IMPREGNATED WITH NON-HYGROSCOPIC, THERMOSETTING VARNISH.

b. RATED 150°C TEMPERATURE RISE ABOVE 40°C AMBIENT. THREE-PHASE TRANSFORMERS LESS THAN 25 KVA, 2 2-1/2% FCBN TAPS; 25 KVA AND LARGER, 2 2-1/2% FCAN TAPS, 4 2-1/2% FCBN TAPS.

c. INSULATING MATERIALS ARE TO BE IN ACCORDANCE WITH NEMA ST20 STANDARDS FOR 220°C UL COMPONENT RECOGNIZED INSULATION SYSTEMS.

d. CONSTRUCT ALL CORES OF HIGH GRADE, NON-AGING SILICON STEEL WITH HIGH MAGNETIC FLUX DENSITIES WELL BELOW THE SATURATION POINT. CLAMP THE CORE LAMINATIONS TOGETHER WITH STEEL ANGLES. BOLT THE COMPLETED CORE AND COIL TO THE BASE OF THE ENCLOSURE BUT ISOLATED THEREFROM BY MEANS OF RUBBER, VIBRATION-ABSORBING MOUNTS. THERE SHALL BE NO METAL-TO-METAL CONTACT BETWEEN THE CORE AND COIL AND THE ENCLOSURE. SOUND ISOLATION SYSTEMS REQUIRING THE COMPLETE REMOVAL OF ALL FASTENING DEVICES WILL NOT BE ACCEPTABLE.

e. VISIBLY GROUND THE CORE OF THE TRANSFORMER TO THE ENCLOSURE BY MEANS OF A FLEXIBLE GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH APPLICABLE UL AND NEC STANDARDS.

f. THE TRANSFORMER ENCLOSURES SHALL BE VENTILATED AND BE FABRICATED OF HEAVY GAUGE, SHEET STEEL CONSTRUCTION. THE ENTIRE ENCLOSURE SHALL BE FINISHED UTILIZING A CONTINUOUS PROCESS CONSISTING OF DEGREASING, CLEANING AND PHOSPHATIZING, FOLLOWED BY ELECTROSTATIC DEPOSITION OF A POLYMER POLYESTER POWER COATING AND BAKING CYCLE TO PROVIDE UNIFORM COATING OF ALL EDGES AND SURFACES. THE COATING SHALL BE ANSI 49 GRAY, BAKED ENAMEL.

g. THE MAXIMUM TEMPERATURE OF THE TOP OF THE ENCLOSURE SHALL NOT EXCEED 50°C RISE ABOVE A 40°C AMBIENT.

h. SOUND LEVELS SHALL BE WARRANTED BY THE MANUFACTURER NOT TO EXCEED THE FOLLOWING:

1. 15 TO 50kVA - 45db; 51 TO 150kVA - 50db; 151 TO 300kVA - 55db; 301 TO 500kVA - 60 db.

3. SHIELDED ISOLATION TRANSFORMERS

a. TRANSFORMERS SHALL BE SUPPLIED WITH QUALITY, FULL WIDTH ELECTROSTATIC SHIELDS RESULTING IN A MAXIMUM EFFECTIVE COUPLING CAPACITANCE BETWEEN PRIMARY AND SECONDARY OF 33 PICOFARADS. WITH TRANSFORMERS CONNECTED UNDER NORMAL, LOADED OPERATING CONDITIONS, THE ATTENUATION OF LINE NOISE AND TRANSIENT SHALL EQUAL OR EXCEED THE FOLLOWING LIMITS:

1. COMMON MODE: 0 TO 1.5kHz - 120db; 1.5 TO 10kHz - 90db; 10 TO 100kHz - 65db; 100kHz TO 1MHz - 40db

2. TRANSVERSE MODE: 1.5 TO 10kHz - 52db; 10 TO 100kHz - 30db; 100kHz TO 1MHz - 30db

J. OVERCURRENT PROTECTIVE DEVICES

1. MOLDED CASE CIRCUIT BREAKERS

a. AS MANUFACTURED BY THE MANUFACTURER OF THE PANELBOARD IN WHICH INSTALLED.

b. ONE, TWO OR THREE POLE WITH RATINGS INDICATED ON THE DRAWINGS; (STANDARD) OR (HIGH INTERRUPTING) CONSTRUCTION AS REQUIRED BY THE SHORT CIRCUIT RATINGS INDICATED ON THE DRAWINGS.

c. QUICK-MAKE, QUICK-BREAK, CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40°C. TRIP INDICATION BY HANDLE POSITION. TRIP-FREE. TWO AND THREE POLE BREAKERS; COMMON TRIP WITH SINGLE OPERATING HANDLE WITHOUT HANDLE TIES. PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE. FRAME SIZES GREATER THAN 100 AMPERES: VARIABLE MAGNETIC TRIP ELEMENTS WHICH ARE SET BY A SINGLE ADJUSTMENT.

d. REMOVABLE LUGS, UL LISTED FOR COPPER AND ALUMINUM CONDUCTORS. LISTED FOR INSTALLATION OF MECHANICAL OR COMPRESSION TYPE LUGS.

K. DISCONNECT SWITCHES

1. AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.

2. FUSIBLE/NON-FUSIBLE SWITCHES

a. ALL SWITCHES: HEAVY DUTY TYPE; UL LISTED AND MEET LATEST NEMA STANDARDS KS-1; HORSEPOWER RATED; QUICK-MAKE, QUICK-BREAK; VISIBLE BLADES IN "OFF" POSITION; REMOVABLE ARC SUPPRESSORS; LUGS FRONT REMOVABLE AND UL LISTED FOR 75°C ALUMINUM OR COPPER WIRE; OPERATING HANDLE IN CONTROL OF SWITCH WITH DOOR OPEN AND CLOSED; HANDLE POSITION CLEARLY INDICATE "ON" AND "OFF" POSITIONS; PROVISIONS FOR PADLOCKING IN "OFF" POSITION; SAFETY INTERLOCKS TO PREVENT THE ENCLOSURE DOOR FROM BEING OPENED WHILE THE HANDLE IS IN THE "ON" POSITION AND TO PREVENT THE HANDLE FROM BEING TURNED TO THE "ON" POSITION WHILE THE ENCLOSURE DOOR IS OPEN; MEANS TO PERMIT AUTHORIZED PERSONNEL TO RELEASE THE SAFETY INTERLOCKS FOR MAINTENANCE OR INSPECTION; AUXILIARY POLES, AS REQUIRED, TO DISCONNECT CONTROL VOLTAGE(S) WHEN POWER VOLTAGE IS DISCONNECTED.

b. ENCLOSURES: NEMA 1 OR NEMA 3R, AS INDICATED ON DRAWINGS; CLEAN STEEL, GALVANIZED AFTER FORMING, PRIMED AND GREY BAKED ENAMEL FINISHED; NEMA 1 COVERS ON PIN TYPE HINGES; NEMA 3R COVERS SECURABLE IN THE OPEN POSITION. INTERCHANGEABLE BOLT-ON THREADED HUBS ON NEMA 3R SWITCHES THRU 200 AMPERE.

c. FUSIBLE SWITCHES: FOR 600 AMPERE AND SMALLER SWITCHES, PROVIDE UL LISTED REJECTION CLIPS TO REJECT ALL FUSES EXCEPT CLASS R; FOR 800 AMPERE AND LARGER SWITCHES, PROVIDE FUSE CLIPS FOR CLASS L FUSES. ALL SWITCHES UL LISTED SHORT CIRCUIT RATING OF 200,00 AMPERES RMS SYMMETRICAL.

L. PANELBOARDS

1. AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.

2. LIGHTING AND APPLIANCE PANELBOARDS

a. PANELBOARD BUS STRUCTURE AND MAIN LUGS OR MAIN CIRCUIT BREAKER SHALL HAVE CURRENT RATINGS AS INDICATED ON THE DRAWINGS. BUS BARS SHALL ACCEPT BOLT-ON CIRCUIT BREAKERS. ALL CURRENT CARRYING PARTS OF THE BUS STRUCTURE SHALL BE PLATED. UL LABELED.

b. THE PANELBOARD BUS ASSEMBLY SHALL BE ENCLOSED IN A SURFACE OR FLUSH MOUNTED STEEL CABINET AS INDICATED ON THE DRAWINGS.

c. EACH PANELBOARD SHALL HAVE A SHORT CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE FAULT CURRENT INDICATED ON THE DRAWINGS. PANELBOARDS SHALL BE MARKED WITH THEIR MAXIMUM SHORT CIRCUIT RATING AT THE SUPPLY VOLTAGE.

M. GROUNDING

1. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

2. GROUNDING CONDUCTORS SHALL BE ANNEALED COPPER CABLES OF THE SIZES INDICATED OR REQUIRED.

3. A "GREEN WIRE" EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY, WHETHER METALLIC OR NON-METALLIC, TO FORM A COMPLETE AND CONTINUOUS GROUNDING PATH. CONNECT GROUNDING CONDUCTORS TO GROUND TERMINALS AT EACH END OF THE RUN.

N. LIGHTING FIXTURES

1. INSURE EACH LIGHTING FIXTURE HAS AN OPERATING SET OF LAMPS EQUAL TO EXISTING OR OF THE TYPES SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA, EXCEPT WHERE SCHEDULED OTHERWISE.

2. FLUORESCENT LAMPS: IN GENERAL, 48-INCH LENGTH, T-8, RAPID START, ENERGY-SAVING LAMPS; LAMP COLOR AS INDICATED.

3. FLUORESCENT BALLASTS: IN GENERAL, ELECTRONIC TYPE FOR BOTH STANDARD FLUORESCENT AND COMPACT FLUORESCENT; INPUT POWER FACTOR ABOVE 95%, THD LESS THAN 20%; AS MANUFACTURED BY MOTOROLA, ADVANCE OR MAGNETEK.

4. PROVIDE A LIGHTING FIXTURE COMPLETE WITH LAMPS, BALLASTS, AND OTHER REQUIRED APPURTENANCES FOR EACH LIGHTING OUTLET SHOWN ON THE DRAWINGS. LIGHT FIXTURES SHALL BE AS DESCRIBED IN THE "LIGHTING FIXTURE SCHEDULE". EACH UNIT SHALL BE FURNISHED WITH ALL MOUNTING AND TRIM ACCESSORIES TO SUIT THE SPECIFIC SERVICES APPLIED. FINISHES SHALL BE FACTORY-STANDARD, EXCEPT WHERE SCHEDULED OTHERWISE.

5. PROVIDE LIGHTING FIXTURES IN ACCORDANCE WITH THE DESIGNATIONS AND DESCRIPTIONS ON THE DRAWINGS. WHERE A SINGLE MANUFACTURER AND ASSOCIATED CATALOG NUMBER IS SCHEDULED, IT IS TO ESTABLISH A DESIRED TYPE AND STANDARD OF QUALITY.

6. LIGHTING FIXTURES SHALL BE UL LABELED.

O. FIRE ALARM SYSTEM

1. FURNISH AND INSTALL FIRE ALARM AND DETECTION SYSTEM ADDITIONS AND RELOCATIONS AS INDICATED ON THE DRAWINGS, COMPATIBLE AND CONSISTENT WITH THE EXISTING SYSTEM.

2. THE EXISTING SYSTEM OPERATION SHALL REMAIN UNCHANGED PROVIDING CONTINUAL SERVICE DURING ALL PHASES OF THE RENOVATION AND EXPANSION.

P. TELEPHONE/DATA SYSTEM

1. AT ALL WALL DATA/VOICE OUTLET LOCATIONS, PROVIDE BACK BOXES AND 3/4" EMPTY CONDUIT WITH PULL CORD TO ABOVE CEILING.

1. EXECUTION

A. INSTALLATION OF BUILDING CONDUIT

1. ALL INTERIOR RACEWAYS SHALL BE EMT. RACEWAYS IN DAMP OR WET LOCATIONS, OR IN HAZARDOUS LOCATIONS, SHALL BE GRC OR IMC.

2. CONDUITS SHALL BE OF SUCH SIZE AND SO INSTALLED THAT THE CONDUCTORS MAY BE DRAWN THROUGH WITHOUT INJURY OR EXCESSIVE STRAIN, SHALL BE SECURED AT CABINETS AND BOXES WITH GALVANIZED LOCKNUTS, BOTH INSIDE AND OUTSIDE, AND SHALL HAVE APPROPRIATE BUSHINGS INSIDE. BUSHINGS SHALL BE INSULATING TYPE WITH BOND GROUND CLAMPS.

3. USE LENGTHS OF FLEXIBLE METAL CONDUIT NOT LESS THAN 12 INCHES LONG AT FINAL CONNECTIONS TO ALL MOTORS, TRANSFORMERS AND SIMILAR DEVICES SUBJECT TO MOVEMENT BECAUSE OF VIBRATION OR MECHANICAL ADJUSTMENT. USE FLEXIBLE METAL CONDUITS TO EFFECT FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH APPROPRIATE CONNECTIONS, IN DAMP OR WET LOCATIONS, AT MOTOR OR EQUIPMENT LOCATIONS IN MECHANICAL EQUIPMENT ROOMS, AT OR NEAR PUMPS, AND WHEN INSTALLED OUTDOORS.

4. GROUND METALLIC CONDUITS AS REQUIRED BY NEC.

5. INSTALL RACEWAYS CONTINUOUS FROM OUTLET TO OUTLET BOX, OR CABINET, WITH A MAXIMUM OF 150 FEET BETWEEN PULLS. IN AREAS WHERE THERE ARE NO SUSPENDED CEILINGS, RUN ALL CONDUITS PARALLEL/PERPENDICULAR TO BUILDING SURFACE PLANES.

6. IN SYSTEMS OPERATING AT MORE THAN 300 VOLTS BETWEEN PHASE CONDUCTORS, AND WHERE DIFFERENT PHASE CONDUCTORS ARE TO BE RUN TO A COMMON GANG WALL SWITCH BOX, PROVIDE SUBSTANTIAL BARRIERS BETWEEN ADJACENT SWITCHES IN THE BOX SO THAT TWO DIFFERENT PHASE WIRES WILL NOT BE IN THE SAME COMPARTMENT.

7. WHEREVER RACEWAYS PASS THROUGH FLOORS, WALLS, PENETRATIONS, OR OTHER PARTITIONS, CAREFULLY FILL AND SEAL SPACE BETWEEN THE OUTSIDE OF THE RACEWAY AND THE BUILDING MATERIAL TO PREVENT PASSAGE OF AIR, WATER, SMOKE, AND FUMES. FILLING MATERIAL SHALL BE A UL LISTED, INTUMESCENT SEALING HAVING FIRE/SMOKE RESISTIVE RATING EQUAL TO THE BUILDING MATERIAL PENETRATED.

8. TYPE HCF-MC METAL CLAD CABLES SHALL BE ACCEPTABLE TO BE INSTALLED IN WALLS AND CEILINGS IN CONFORMANCE WITH THE REQUIREMENTS OF NEC 334. TYPE HCF-MC CABLE SHALL BE USED ONLY FOR BRANCH CIRCUITS FOR LIGHTING AND SPECIFIC AND GENERAL PURPOSE RECEPTACLES. TYPE HCF-MC CABLE SHALL NOT BE USED FOR FEEDERS OR MULTIPLE BRANCH CIRCUIT HOMERUNS, AND MORE SPECIFICALLY, SHALL NOT BE USED FOR HVAC, AND KITCHEN EQUIPMENT BRANCH CIRCUITS. TYPE HCF-MC CABLE SHALL NOT BE UTILIZED WITHIN ELECTRICAL EQUIPMENT ROOMS. CABLE SHALL TRANSITION TO A RIGID TYPE CONDUIT PRIOR TO ENTERING ELECTRICAL EQUIPMENT ROOMS.

9. CONDUITS UTILIZED THROUGHOUT THE PROJECT SHALL NOT BE SMALLER THAN 3/4 INCH FOR FEEDERS, MULTIPLE BRANCH CIRCUIT HOMERUNS AND HOMERUNS OF CONDUCTORS LARGER THAN NO. 12. INDIVIDUAL BRANCH CIRCUIT WIRING FOR NO. 12 CONDUCTORS SHALL BE ACCEPTABLE IN 1/2" CONDUIT, I.E. 2#12, 1#12G, 1/2"C.

B. INSTALLATION OF PULL AND JUNCTION BOXES

1. FASTEN ALL BOXES SECURELY TO THE BUILDING CONSTRUCTION, INDEPENDENT OF CONDUIT SYSTEMS.

2. ON CONCEALED CONDUIT SYSTEMS WHERE BOXES ARE NOT OTHERWISE ACCESSIBLE, SET BOXES FLUSH WITH FINISHED SURFACES FOR ACCESS, AND PROVIDE OVERLAPPING COVERS.

C. INSTALLATION OF OUTLET BOXES

1. TERMINATE CONDUITS AT A METAL OUTLET BOX AT EACH OUTLET OR DEVICE. ALL BOXES SHALL CONFORM TO THE NEC.

2. OUTLET BOXES SHALL BE SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM.

D. INSTALLATION OF CONDUIT HANGERS AND SUPPORTS

1. FURNISH AND INSTALL ALL HANGERS AND SUPPORTS REQUIRED BY RACEWAY SYSTEMS.

2. SUPPORT ALL ABOVE-GROUND ELECTRICAL CONDUITS FROM THE BUILDING STRUCTURE/CONSTRUCTION. SUPPORT CONDUITS RUNNING VERTICALLY OR HORIZONTALLY ALONG WALLS WITH GALVANIZED MALLEABLE IRON ONE-HOLE CLAMPS. CARRY INDIVIDUALLY SUPPORTED HORIZONTAL CONDUITS 1-1/4 INCH AND LARGER ON SUITABLE HANGERS.

3. LOCATE HANGERS AND TRAPEZES TO SUPPORT HORIZONTAL RACEWAYS WITHOUT APPRECIABLE SAGGING. HANGER SPACING SHALL NOT EXCEED NEC REQUIREMENTS, OR RECOMMENDATIONS OF THE NECA "STANDARD OF INSTALLATION"

4. WHERE CONDUITS SMALLER THAN 1-1/4 INCH ARE INSTALLED ABOVE REMOVABLE TYPE DRY CEILINGS, SUPPORT THEM ON SUITABLE HANGER RODS WITH METAL CLIPS AT A DISTANCE ABOVE THE CEILING SUFFICIENT TO PERMIT REMOVAL OF CEILING PANELS AND LAY-IN LIGHT FIXTURES. LOCATE SUCH CONDUITS SO AS NOT TO HINDER ACCESS TO MECHANICAL EQUIPMENT THROUGH CEILING PANELS.

E. INSTALLATION OF CONDUCTORS

1. PULL NO CONDUCTORS INTO CONDUITS UNTIL ALL WORK OF A NATURE WHICH MAY CAUSE INJURY TO CONDUCTORS IS COMPLETED.

2. RUN FEEDERS IN CONTINUOUS PIECES, WITHOUT JOINTS OR SPLICES, INSOFAR AS PRACTICABLE.

F. SEGREGATION OF WIRING SYSTEMS

1. SEGREGATION OF WIRING SYSTEMS SHALL NOT BE COMPROMISED BY THE USE OF COMMON PULLBOXES, WIREWAYS, CABINETS OR ANY OTHER TYPE OF ENCLOSURE.

2. THE RACEWAY SYSTEM FOR EACH FEEDER SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS.

3. THE RACEWAY SYSTEM FOR THE BRANCH CIRCUITS OF EACH PANELBOARD SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS.

G. INSTALLATION OF TRANSFORMERS

1. INSTALL FLOOR MOUNTED TRANSFORMERS ON A 3" HIGH CONCRETE HOUSEKEEPING PAD AND A NEOPRENE VIBRATION, ISOLATING PAD.

2. PROVIDE WALL MOUNTED TRANSFORMERS WITH NEOPRENE VIBRAT

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CHOJ PET/CT
Location:	Grand Junction, Colorado
Climate Zone:	5b
Project Type:	Alteration
Project No:	80823
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
2373 G Road Suite 140
Grand Junction , Colorado 81505

Owner/Agent:

Designer/Contractor:

Notes:

Building Area

Description	Floor Area
1-Hospital (Hospital) : Nonresidential	1416

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CHOJ PET/CT
Location:	Grand Junction, Colorado
Climate Zone:	5b
Project Type:	Alteration

Construction Site:
2373 G Road Suite 140
Grand Junction , Colorado 81505

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-PET CT (Healthcare Facility:Imaging)	1102	0.94	
2-Space (Healthcare Facility:Exam/Treatment)	314	1.4	
Total Allowed Watts:			1475

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
1-PET CT (Healthcare Facility:Imaging)			
(RL): (RL): LED:	10	64	640
B1: B1: LED:	2	24	48
UC1: UC1: LED:	1	10	10
2-Space (Healthcare Facility:Exam/Treatment)			
A1: A1: LED:	1	33	33
D1: D1: LED:	2	28	56
P1: P1: LED:	4	36	144
Total Proposed Watts:			931

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-PET CT (Healthcare Facility:Imaging)	
(RL): (RL): LED:	Manual Control
B1: B1: LED:	Manual Control
UC1: UC1: LED:	Manual Control
2-Space (Healthcare Facility:Exam/Treatment)	
A1: A1: LED:	Occupancy Sensor, Manual Control
D1: D1: LED:	Occupancy Sensor, Manual Control
P1: P1: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Samara Ordahl - Electrical Engineer — 02/05/2026

Name - Title **Signature** **Date**

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 61% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]*	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E3.11

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22]*	Spaces required to have light reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E3.11
C405.7 [EL26]*	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.8 [EL27]*	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.9.1, C405.9.2 [EL28]*	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.10 [EL29]*	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.1.1 [EL30]*	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.11, C405.11.1 [EL31]*	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.2.1, C405.2.1.1 [EL18]*	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in open plan office spaces and section C405.2.1.3 for open plan office spaces.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.2 [EL19]*	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1.3 [EL20]*	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be automatically reduced by >= 50% in each floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21]*	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Spaces with patient care.
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23]*	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.2.5 [EL27]*	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E3.11

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17]*	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.1.1 [FI57]*	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how the lighting, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5 [FI16]*	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3 [FI33]*	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E3.11

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
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81505

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DATE 02/06/2026

REVISIONS

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SHEET TITLE

COMCHECK - ELECTRICAL

SHEET NUMBER

E0.03

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GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

(#) LEGEND NOTES



1 FLOOR PLAN - FLOOR 1 - SITE PLAN

E1.01 1/8" = 1'-0"

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SHEET TITLE

OVERALL PLAN - ELECTRICAL

SHEET NUMBER

E1.01

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Mechanical Equipment Connection Schedule E2.11

Equip. Tag	HP	Voltage	KVA	Disconnect	EM	Circuit	Wires	Comments
CU-1.01	--	208V/1PH	3.5	30/-1/3R	N	VPNL-2-2,4	2#10, 1#10G, 3/4"C	PROVIDE NEMA 3R, WATER PROOF DISCONNECT
CU-1.02	--	208V/1PH	5.4	30/-1/3R	N	VPNL-2-6,8	2#10, 1#10G, 3/4"C	PROVIDE NEMA 3R, WATER PROOF DISCONNECT
CU-1.03	--	208V/1PH	8.7	60/45/1/3R	N	VPNL-2-10,12	2#6, 1#6G, 3/4"C	PROVIDE NEMA 3R, WATER PROOF DISCONNECT
FCU-1.01	--	208V/1PH	0.0	INTEGRAL	N	SEE CU-1.01	2#12, 1#12G, 3/4"C	INDOOR UNIT FED FROM OUTDOOR UNIT. SINGLE POINT CONNECTION
FCU-1.02	--	208V/1PH	0.0	INTEGRAL	N	SEE CU-1.02	2#12, 1#12G, 3/4"C	INDOOR UNIT FED FROM OUTDOOR UNIT. SINGLE POINT CONNECTION
FCU-1.03	--	208V/1PH	0.0	INTEGRAL	N	SEE CU-1.03	2#12, 1#12G, 3/4"C	INDOOR UNIT FED FROM OUTDOOR UNIT. SINGLE POINT CONNECTION
H-1.01	--	208V/1PH	16.0	100/-/3	N	VPNL-1-15,17,19	3#4, 1#8G, 1"C	

GENERAL NOTES

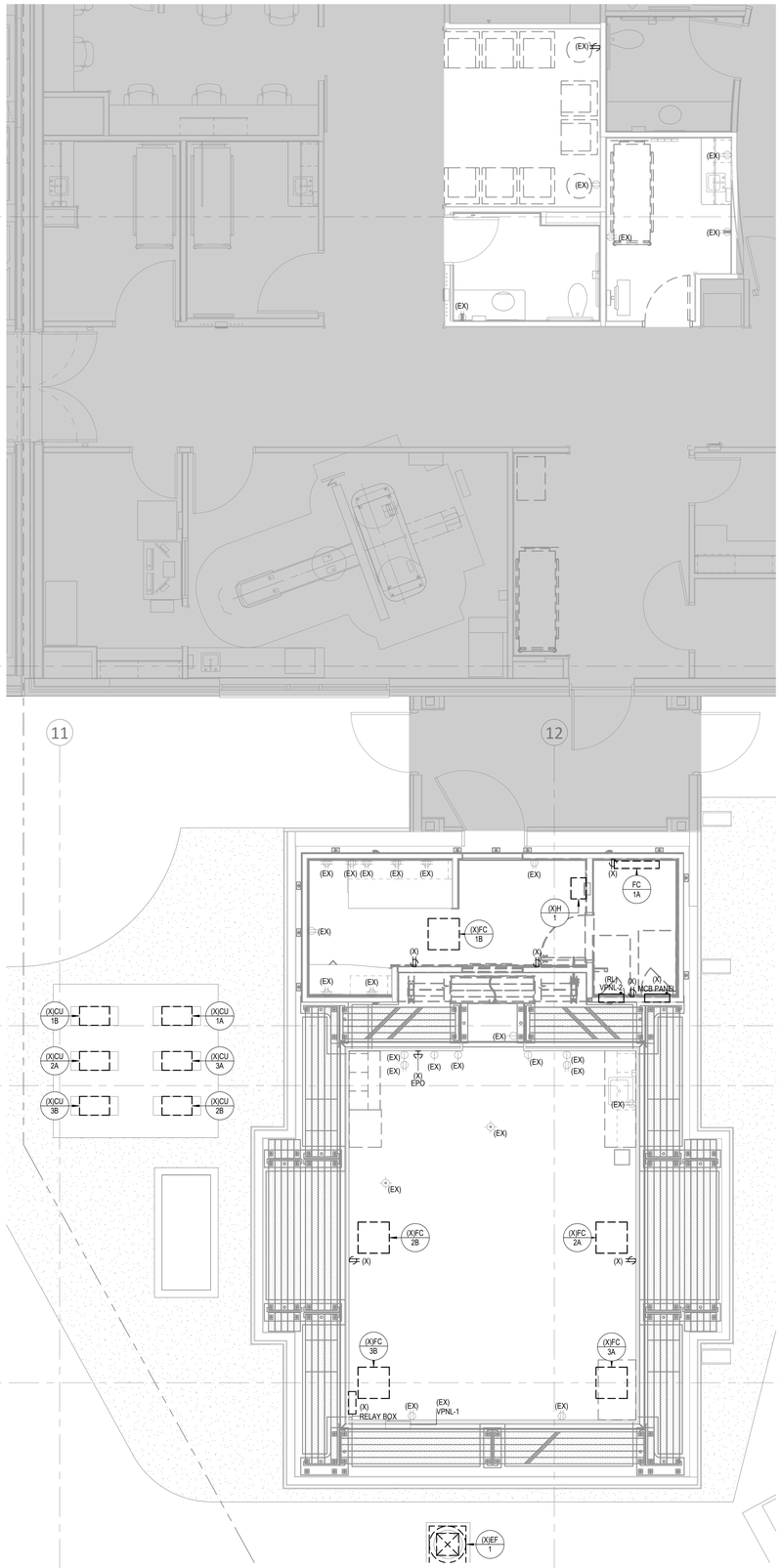
A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

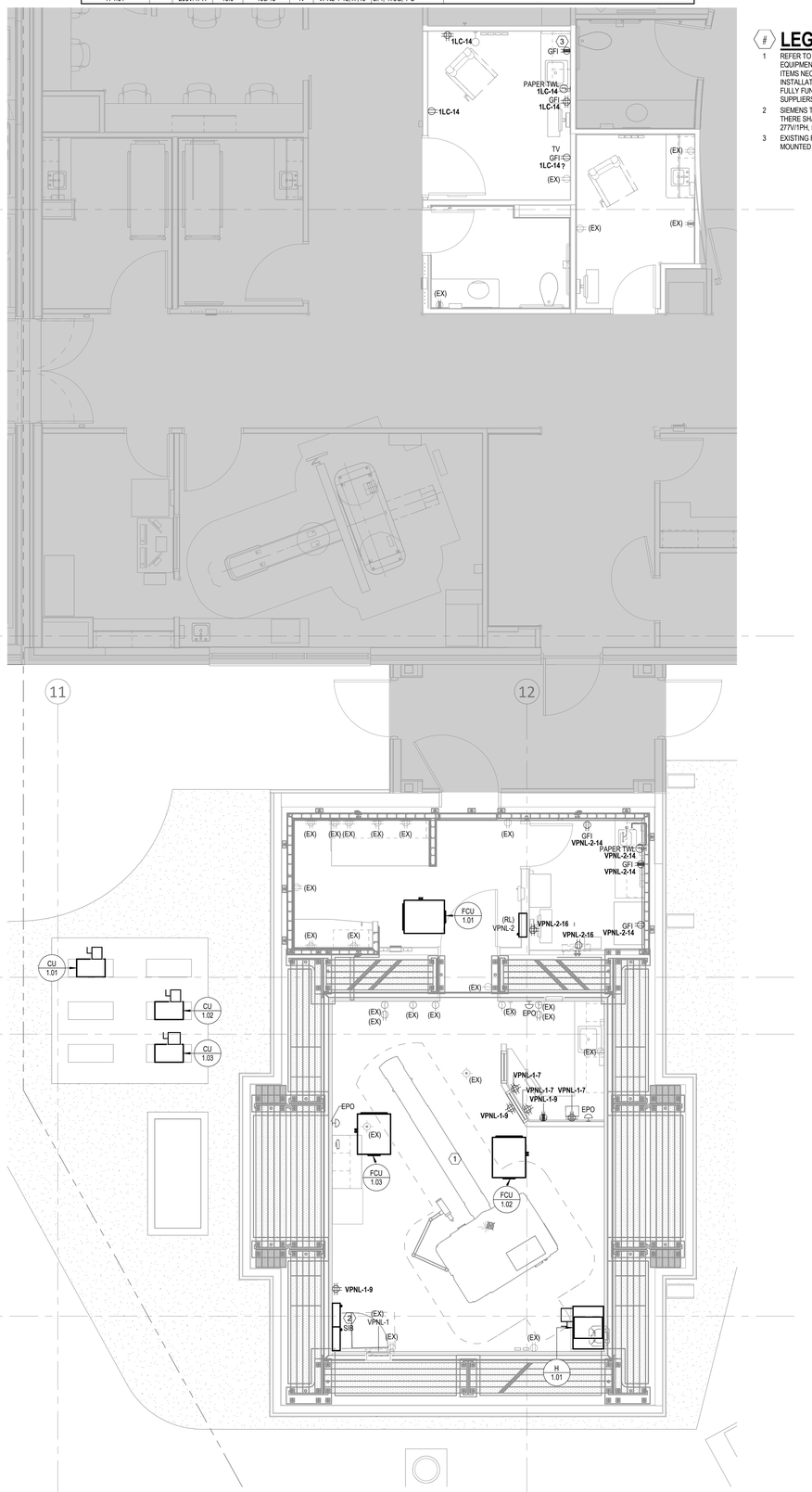
1 REFER TO FINAL VENDOR SHOP DRAWINGS AND PRODUCT PLANNING GUIDE FOR ALL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, RACEWAYS, CONTROL WIRING AND OTHER ITEMS NECESSARY BETWEEN ALL THE COMPONENTS TO PROVIDE THE PROPER INSTALLATION. MATERIALS AND LABOR SHALL BE INCLUDED AS NECESSARY TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM AS REQUIRED BY THE EQUIPMENT SUPPLIERS. REUSE AS MUCH OF FEEDER PATHWAYS AS POSSIBLE!

2 SIEMENS TO PROVIDE NEW 480/277V, 3PH, 125A SITE INTERFACE BOX (SIB). WITHIN SIB, THERE SHALL BE A 480V/3PH, 100A ELECTRONIC CIRCUIT BREAKER FOR CT GANTRY AND A 277V/1PH, 50A ELECTRONIC CIRCUIT BREAKER FOR PET GANTRY.

3 EXISTING RECEPTACLE AT THIS LOCATION SHALL BE MODIFIED AS NECESSARY TO BE MOUNTED ABOVE COUNTER AND GFI PROTECTED.



2 DEMO PLAN - FLOOR - POWER
E2.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - POWER
E2.11 1/4" = 1'-0"

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COMMUNITY HOSPITAL MOB 1 PET CT

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SHEET TITLE

FLOOR PLAN - POWER

SHEET NUMBER

E2.11

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Mechanical Equipment Connection Schedule E2.12

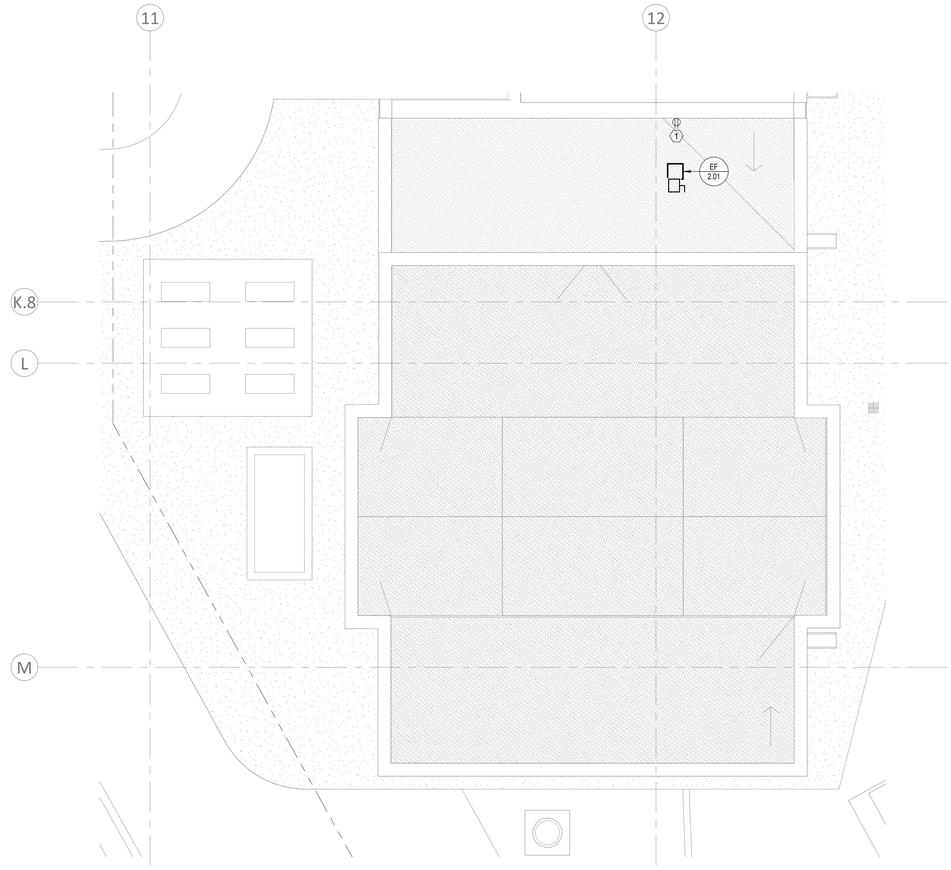
Equip. Tag	HP	Voltage	VA	Disconnect	EM	Circuit	Wires	Comments
EF-2.01	1/6	208V/1PH	500	30/15/1/3R	N	VPNL-1-8,10	2#12, 1#12G, 3/4"C	PROVIDE NEMA 3R, WATER PROOF DISCONNECT

GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

1 PROVIDE WATER PROOF, GFI RECEPTACLE WITHIN 25FT OF NEW MECHANICAL EQUIPMENT ON ROOFTOP.



1 FLOOR PLAN - ROOF - AREA A - POWER
E2.12 1/4" = 1'-0"

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SHEET TITLE

ROOF PLAN - POWER

SHEET NUMBER

E2.12

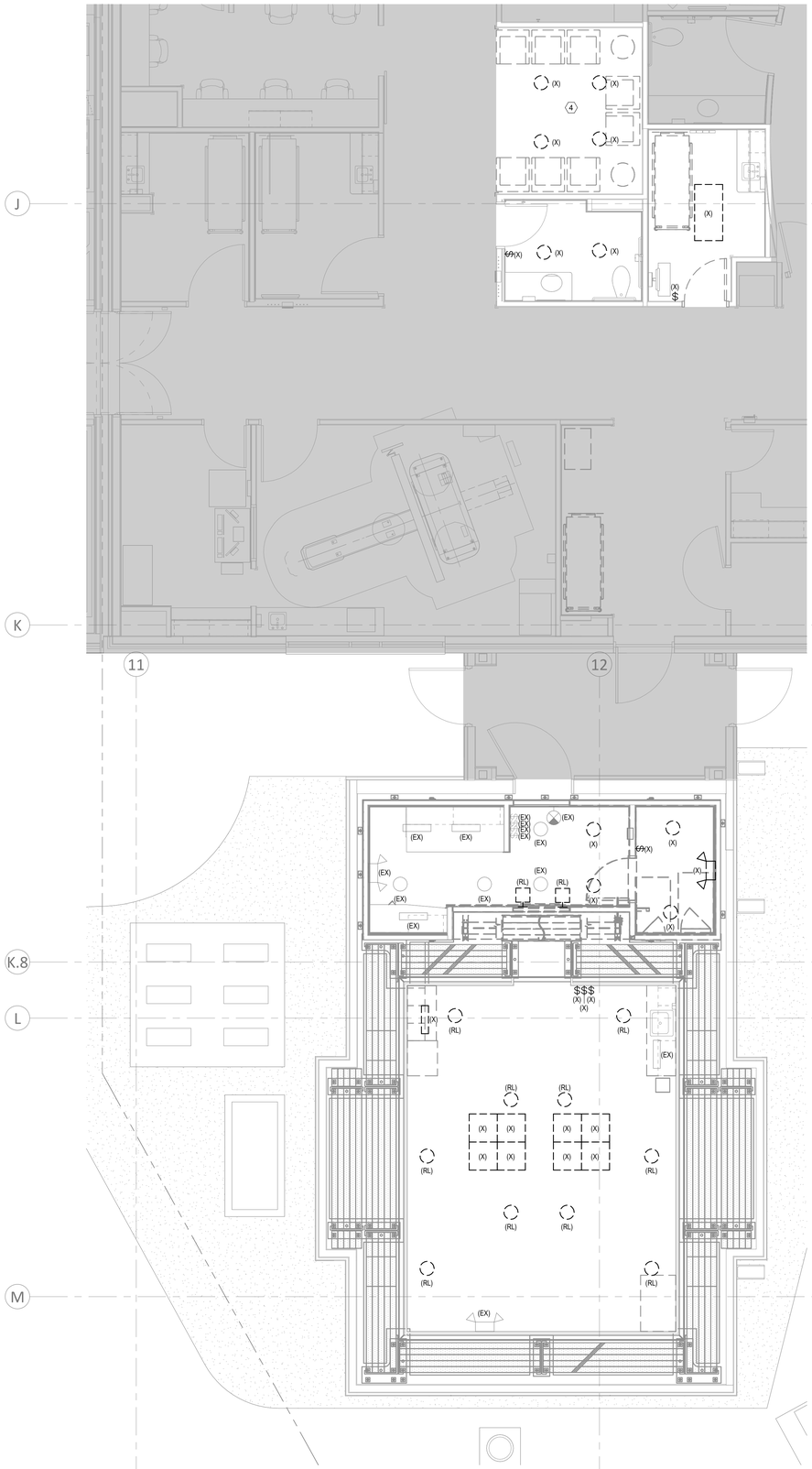
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GENERAL NOTES

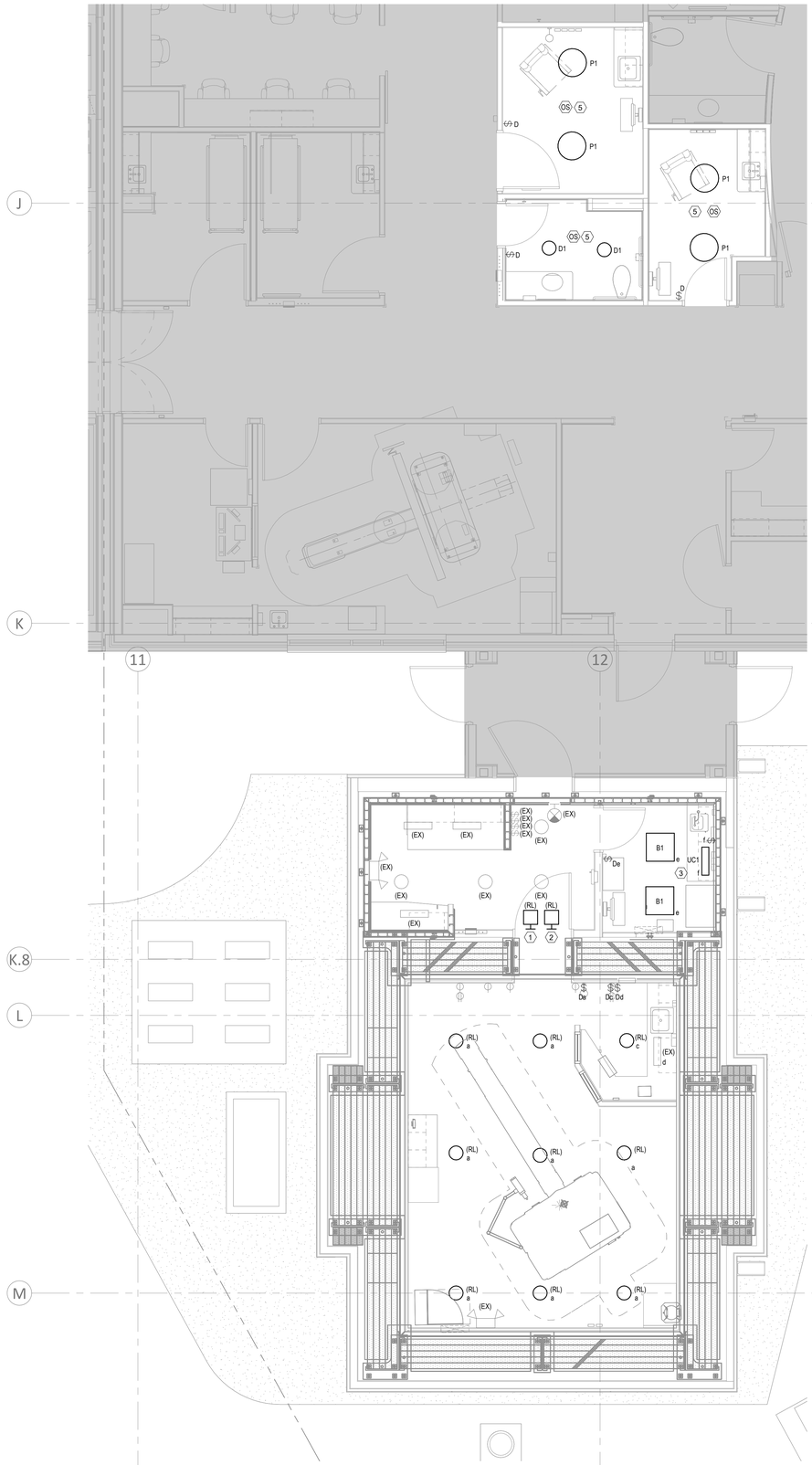
A. REFER TO GENERAL INFORMATION/LEGEND SHEET.
B. RECONNECT ALL RELOCATED LIGHTING FIXTURES (INDICATED WITH RL) TO EXISTING CIRCUIT FEED.

LEGEND NOTES

1 RECONNECT EXISTING 'BEAM ON' LIGHT TO NEW PET/CT EQUIPMENT.
2 RECONNECT EXISTING 'X-RAY IN USE' LIGHT TO NEW PET/CT EQUIPMENT.
3 CONNECT NEW LIGHTING FIXTURES IN HOT LAB TO EXISTING CIRCUIT 17 ON PANEL VPNL-2 PREVIOUSLY SERVING SPACE.
4 REMOVE EXISTING LIGHTING FIXTURES FROM LIGHTING CONTROL IN CORRIDOR.
5 CONNECT NEW LIGHTING FIXTURES TO CIRCUIT(S) ON EXISTING PANEL 1HA LOCATED IN MAIN ELECTRICAL ROOM.



2 DEMO PLAN - FLOOR - LIGHTING
E3.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - LIGHTING
E3.11 1/4" = 1'-0"

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COMMUNITY HOSPITAL MOB 1 PET CT

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SHEET TITLE

FLOOR PLAN - LIGHTING

SHEET NUMBER

E3.11

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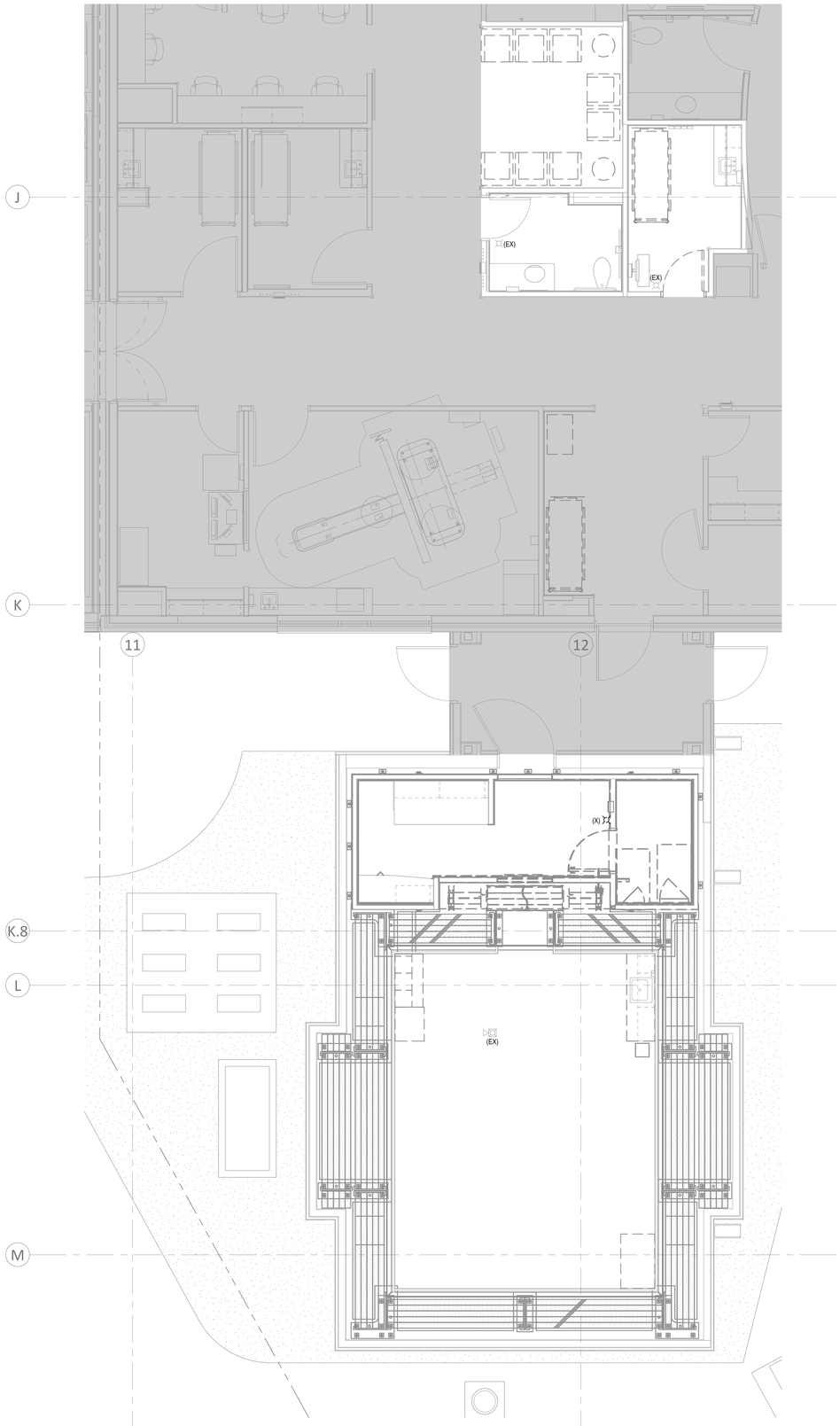
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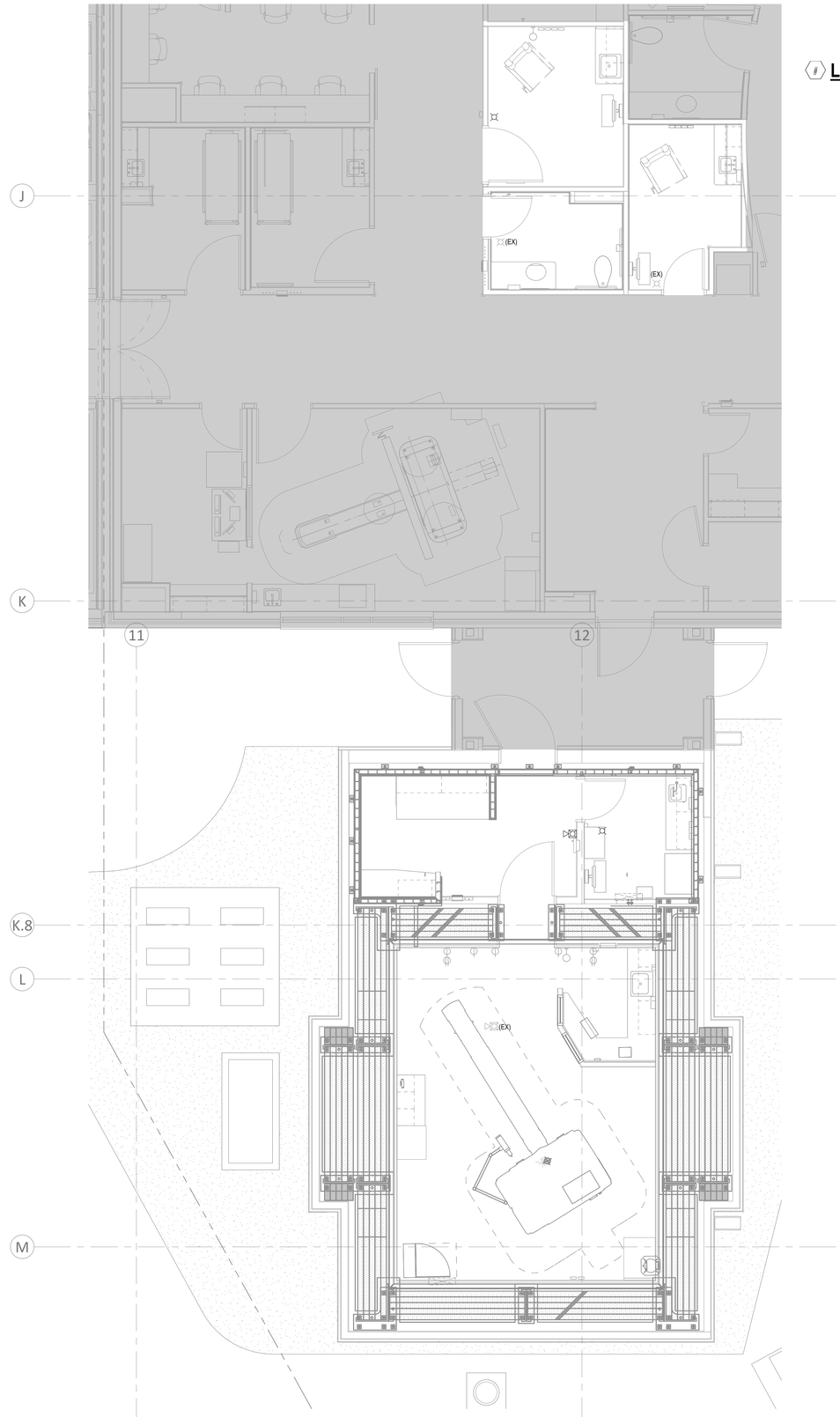
GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES



2 DEMO PLAN - FLOOR - SPECIAL SYSTEMS
E4.11 1/4" = 1'-0"



1 FLOOR PLAN - FLOOR 1 - AREA A - SPECIAL SYSTEMS
E4.11 1/4" = 1'-0"

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SHEET TITLE

FLOOR PLAN - SPECIAL SYSTEMS

SHEET NUMBER

E4.11

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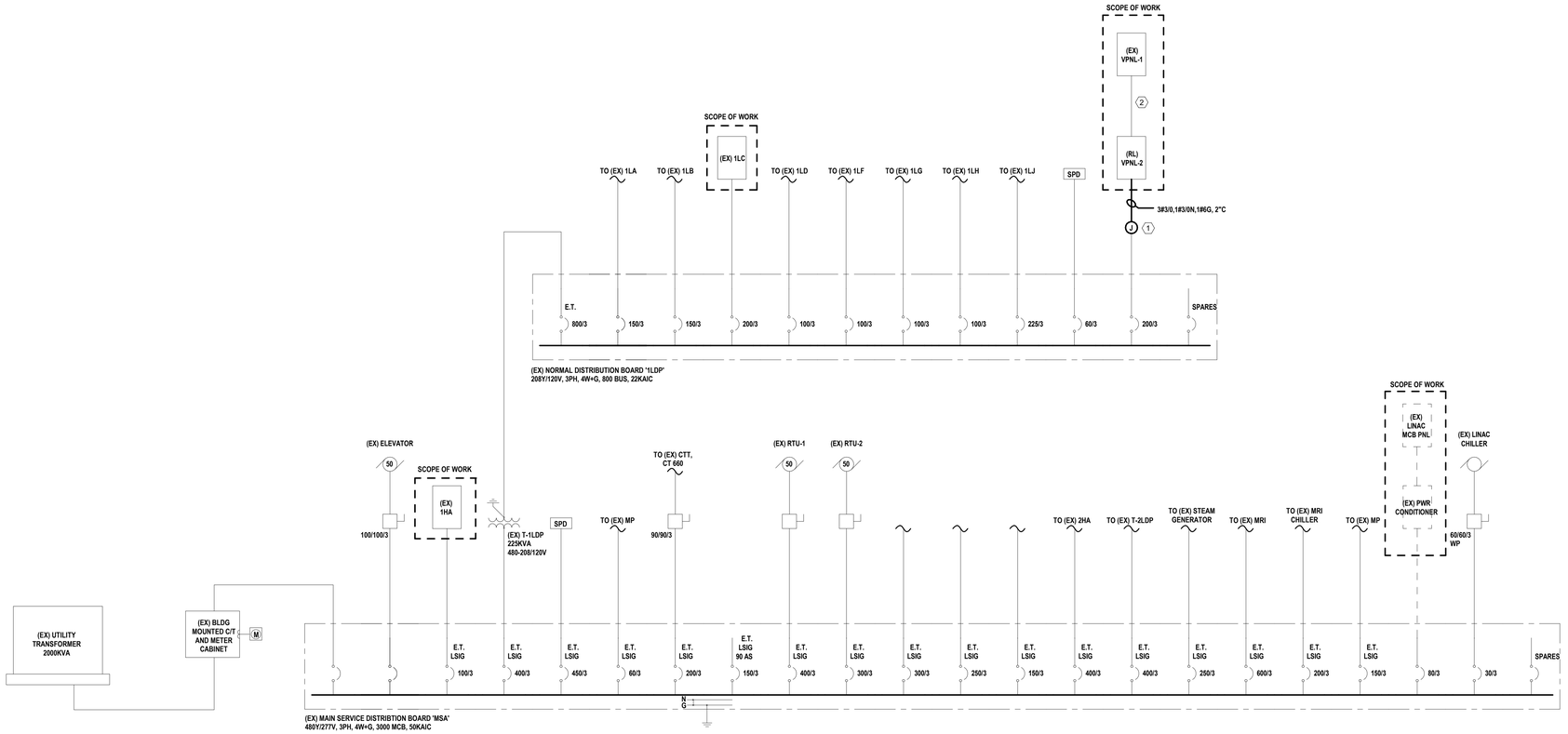
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GENERAL NOTES

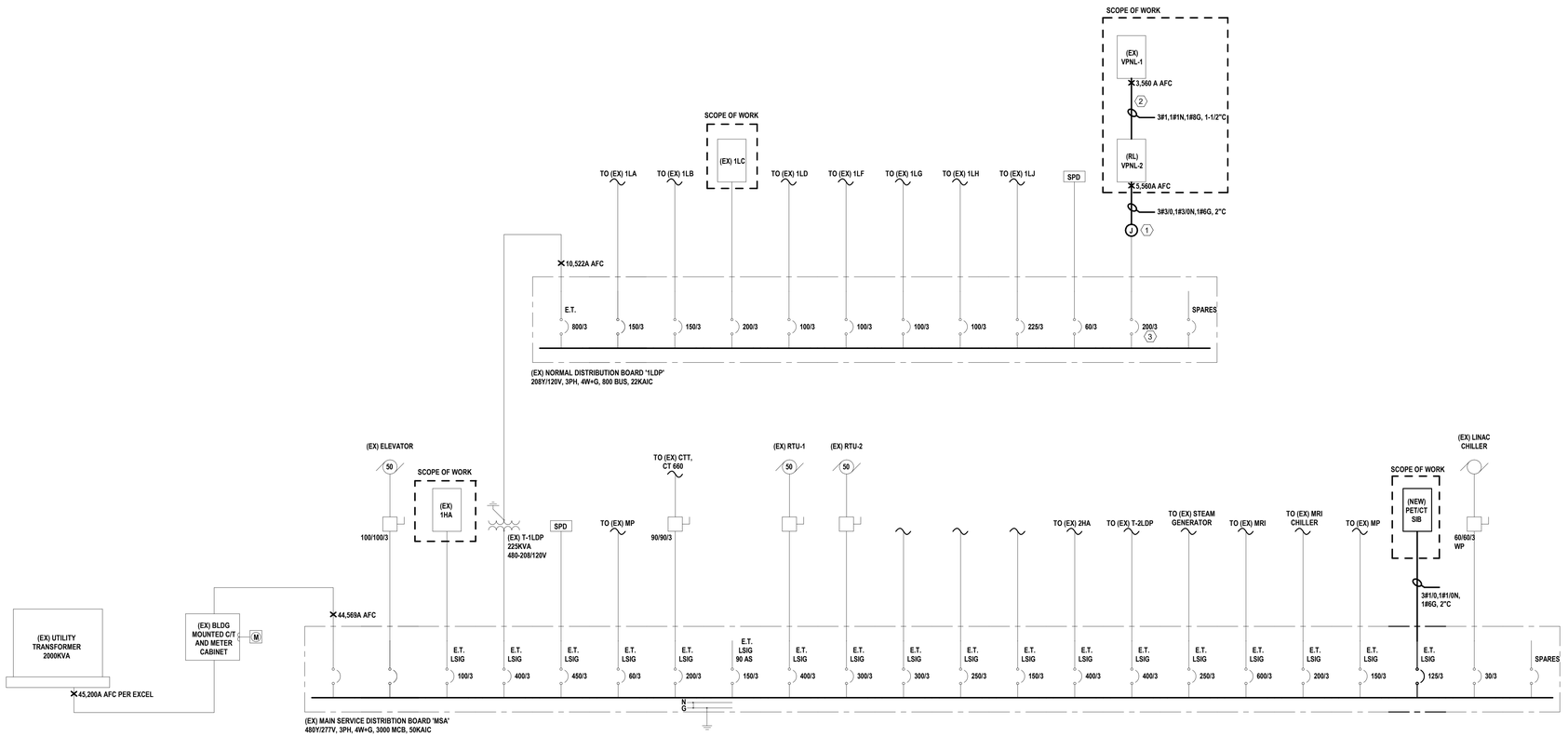
A. REFER TO GENERAL INFORMATION/LEGEND SHEET.
B. ALL ELECTRICAL EQUIPMENT AND FEEDERS ON ONE-LINE ARE EXISTING, UNLESS OTHERWISE NOTED.

LEGEND NOTES

1 INTERCEPT AND EXTEND EXISTING FEEDER FROM EXISTING PANEL LOCATION TO NEW PANEL LOCATION. MATCH EXISTING CONDUIT AND CONDUCTOR SIZES.
2 REUSE AS MUCH OF EXISTING FEEDER AS POSSIBLE FROM PANEL VPNL-2 TO PANEL VPNL-1. MODIFY OR EXTEND EXISTING FEEDER AS NECESSARY FOR NEW PANEL VPNL-2 LOCATION. MATCHING EXISTING CONDUIT AND CONDUCTOR SIZES.
3 REPLACE EXISTING 80A BREAKER FOR DEMOLISHED LINAC EQUIPMENT AND REPLACE WITH 125A BREAKER FOR NEW PET/CT EQUIPMENT.



ELECTRICAL ONE-LINE DIAGRAM - DEMO



ELECTRICAL ONE-LINE DIAGRAM - NEW

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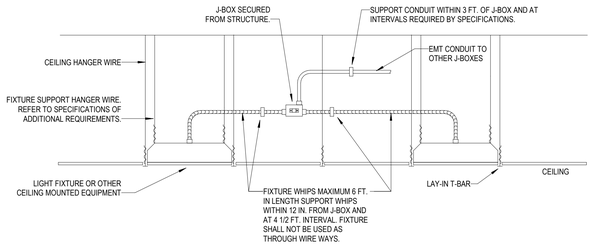
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ONE-LINE DIAGRAMS - ELECTRICAL

SHEET NUMBER

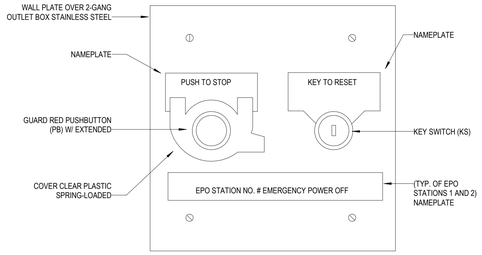
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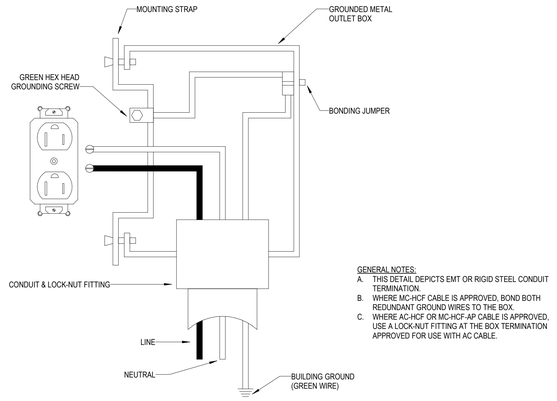
4 LAY-IN FIXTURE MOUNTING DETAIL

E7.01 N.T.S.



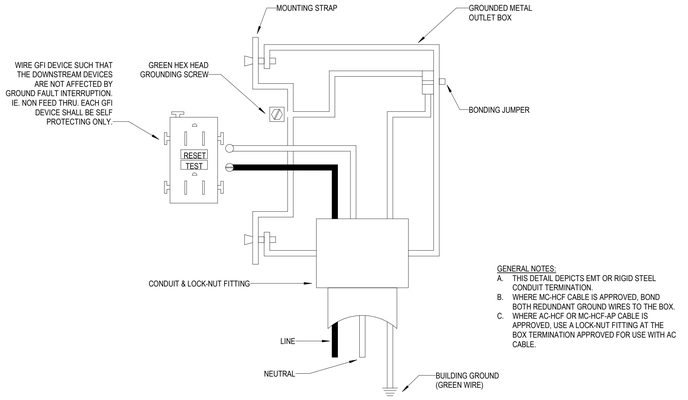
2 EPO STATION DETAIL

E7.01 N.T.S.



1 RECEPTACLE GROUNDING DETAIL

E7.01 N.T.S.



3 GFI RECEPTACLE - WIRING DIAGRAM

E7.01 N.T.S.

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DETAILS - ELECTRICAL

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ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

PHYSICAL DESCRIPTION								ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION			
TYPE	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST/DRIVER/XFRM	VOLTAGE	MANUFACTURER	CATALOG NUMBER	ALT. MANUFACTURER	REMARKS
(RL)	EXISTING LED DOWNLIGHT	PET/CT, CONTROL	N/A	N/A	N/A	N/A	N/A	N/A	LED	N/A	N/A	64	EACH	N/A	120 V	N/A			
B1	2X2 TROFFER CURVED LINEAR PRISM CENTER DIFFUSE	HOT LAB	ACRYLIC	MATTE WHITE	CURVED, RIBBED DIFFUSER	WHITE	RECESSED	3500K	LED	3000LM	60,000	24	EACH	0-10V TO 1% DIMMING	120 V	LITHONIA	STAK 2X2 3000LM 80CRI 35K COL MIN1 MVOLT		
D1	6" LED DOWNLIGHT	TOILET	ALUMINUM	N/A	N/A	WHITE	RECESSED	3500K	LED	3000LM	50,000	28	EACH	0-10V TO 1% DIMMING	277 V	KIRLIN	LCR-055DN-3000L-UNV-FLR-80-35K-D2-70T		
P1	2' DIAMETER SURFACE MOUNTED DRUM	UPTAKE	WET LAMINATED PETG	N/A	N/A	PER ARCHITECT	SURFACE	3500K	LED	2375LM	60,000	36	EACH	0-10V	277 V	BARBICAN	24D 10H SC HTO WHT 277V LED36 3500K 90CRI DB		
UC1	UNDER CABINET FIXTURE	HOT LAB	ALUMINUM	N/A	ACRYLIC	WHITE	SURFACE	3500K	LED	1065LM	150,000	10	EACH	0-10V TO 1% DIMMING	120 V	PRUDENTIAL	MIC-PRO LED3S SO T SC UNV DM01		

EXIST: VPNL-1 — NORMAL

LOCATION: VAULT
MAIN BUS: 100 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO ONE-LINE
AIC RATING: 10000 A

FED FROM: VPNL-2
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: RECESSED
PANEL LUGS: MLO
NUMBER OF SECTIONS: 1

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 30

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	(EX) UNKNOWN LOAD	--	20 1		1 20	--	(EX) UNKNOWN LOAD	2
3	(EX) UNKNOWN LOAD	--	20 1		1 20	--	SPARE	4
5	(EX) UNKNOWN LOAD	--	20 1		1 20	--	(EX) UNKNOWN LOAD	6
7	*RCPT - CONTROL RM	1,080	20 1		2 15	500	*EF.201	8
9	*RCPT - PET/CT RM	900	20 1		-- --	--	--	10
11	(EX) UNKNOWN LOAD	--	20 1		2 15	--	*SPARE	12
13	(EX) UNKNOWN LOAD	--	20 1		-- --	--	--	14
15	**H-1.01	16,000	100 3		2 15	--	*SPARE	16
17	--	--	-- --		-- --	--	--	18
19	--	--	-- --		2 15	--	*SPARE	20
21	**SPARE	--	20 1		-- --	--	--	22
23	*SPARE	--	15 2		1 20	--	(EX) UNKNOWN LOAD	24
25	--	--	-- --		1 20	--	(EX) UNKNOWN LOAD	26
27	*SPARE	--	15 2		1 20	--	(EX) UNKNOWN LOAD	28
29	--	--	-- --		1 20	--	SPACE	30

57 A / 56 A / 44 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MTRS	16,500	20,500			
RCPT	1,980	1,980	EXISTING CONNECTED LOAD:	23.1	64.1
			REMOVED CONNECTED LOAD:	14.6	40.5
			ADDED CONNECTED LOAD:	18.5	51.3
			TOTAL CONNECTED LOAD:	27	74.9
			TOTAL ESTIMATED DEMAND:	31	86

NOTES: *INDICATES NEW LOAD. **INDICATES NEW LOAD AND NEW BREAKER.

EXIST: VPNL-2 — NORMAL

LOCATION: HOT LAB
MAIN BUS: 225 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO ONE-LINE
AIC RATING: 10000 A

FED FROM: 1LDP
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: RECESSED
PANEL LUGS: MLO
NUMBER OF SECTIONS: 1

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 30

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	(EX) RCPT CONTROL AREA	--	20 1		2 30	3,536	**CU-1.01	2
3	(EX) RCPT CONTROL AREA	--	20 1		-- --	--	--	4
5	(EX) RCPT CONTROL AREA	--	20 1		2 30	5,400	**CU-1.02	6
7	(EX) RCPT CONTROL AREA	--	20 1		-- --	--	--	8
9	(EX) RCPT CONTROL AREA	--	20 1		2 45	8,700	**CU-1.03	10
11	*SPARE	--	20 2		-- --	--	--	12
13	--	--	-- --		1 20	720	**RCPT - HOT LAB	14
15	(EX) LTG GENERAL	--	20 1		1 20	360	**RCPT - HOT LAB	16
17	(EX) LTG EQUIP.	--	20 1		1 20	--	(EX) ENTRY DISCONNECT	18
19	(EX) LTG UNDERCAB	--	20 1		3 20	--	(EX) UNKNOWN RCPT	20
21	(EX) UNKNOWN LOAD	--	20 1		-- --	--	--	22
23	(EX) LTG EXIT SIGN	--	20 1		-- --	--	--	24
25	SPACE	--	-- 1		3 100	18,480	VPNL-1	26
27	(EX) RCPT CONDENSER GFCI	--	20 1		-- --	--	--	28
29	SPACE	--	-- 1		-- --	--	--	30

99 A / 109 A / 104 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MTRS	34,136	38,136			
RCPT	3,060	3,060	EXISTING CONNECTED LOAD:	30.5	84.7
			REMOVED CONNECTED LOAD:	14.6	40.5
			ADDED CONNECTED LOAD:	37.2	103.2
			TOTAL CONNECTED LOAD:	53.1	147.4
			TOTAL ESTIMATED DEMAND:	57.1	158.5

NOTES: *INDICATES NEW LOAD. **INDICATES NEW LOAD AND NEW BREAKER.

EXIST: 1LC — NORMAL

LOCATION: ELEC RM B1049
MAIN BUS: 225 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: EXISTING PANEL
AIC RATING: 22000 A

FED FROM: 1LDP
WIRES: 4W + G
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
PANEL LUGS: MLO
NUMBER OF SECTIONS: 3

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	2
3	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	4
5	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	6
7	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	8
9	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	10
11	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	12
13	(EXISTING LOAD)	--	20 1		1 20	1,620	*RCPT - UPTAKE	14
15	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	16
17	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	18
19	SPARE	--	20 1		1 20	--	(EXISTING LOAD)	20
21	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	22
23	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	24
25	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	26
27	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	28
29	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	30
31	SPARE	--	20 1		1 20	--	SPARE	32
33	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	34
35	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	36
37	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	38
39	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	40
41	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	42
43	(EXISTING LOAD)	--	40 2		1 20	--	(EXISTING LOAD)	44
45	--	--	-- --		1 20	--	(EXISTING LOAD)	46
47	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	48
49	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	50
51	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	52
53	SPARE	--	20 1		1 20	--	(EXISTING LOAD)	54
55	(EXISTING LOAD)	--	20 1		2 20	--	(EXISTING LOAD)	56
57	(EXISTING LOAD)	--	40 2		-- --	--	--	58
59	--	--	-- --		1 20	--	(EXISTING LOAD)	60
61	SPARE	--	20 1		1 20	--	(EXISTING LOAD)	62
63	SPARE	--	20 1		1 20	--	(EXISTING LOAD)	64
65	SPARE	--	20 1		1 20	--	SPARE	66
67	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	68
69	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	70
71	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	72
73	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	74
75	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	76
77	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	78
79	SPARE	--	20 1		1 20	--	SPARE	80
81	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	82
83	(EXISTING LOAD)	--	20 1		1 20	--	SPARE	84
85	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	86
87	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	88
89	(EXISTING LOAD)	--	20 1		3 20	--	SPARE	90
91	(EXISTING LOAD)	--	20 1		-- --	--	--	92
93	(EXISTING LOAD)	--	20 1		-- --	--	--	94
95	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	96
97	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	98
99	(EXISTING LOAD)	--	20 1		1 15	--	(EXISTING LOAD)	100
101	(EXISTING LOAD)	--	20 1		1 15	--	(EXISTING LOAD)	102
103	(EXISTING LOAD)	--	20 1		1 15	--	(EXISTING LOAD)	104
105	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	106
107	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	108
109	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	110
111	(EXISTING LOAD)	--	20 1		1 20	--	(EXISTING LOAD)	112
113	SPARE	--	20 1		1 20	--	SPARE	114
115	(EXISTING LOAD)	--	60 2		1 20	--	(EXISTING LOAD)	116
117	--	--	-- --		1 20	--	SPARE	118
119	(EXISTING LOAD)	--	20 2		1 20	--	(EXISTING LOAD)	120
121	--	--	-- --		1 20	--	(EXISTING LOAD)	122
123	SPARE	--	20 2		1 20	--	(EXISTING LOAD)	124
125	--	--	-- --		1 20	--	(EXISTING LOAD)	126

14 A / 0 A / 0 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
RCPT	1,620	1,620			
			EXISTING CONNECTED LOAD:	60.3	167.4
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	1.6	4.5
			TOTAL CONNECTED LOAD:	61.9	171.9
			TOTAL ESTIMATED DEMAND:	61.9	171.9

NOTES: *INDICATES NEW LOAD.

EXIST: '1LDP' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS	kVA	AMPS
BRANCH:	NORMAL	MTRS	34,136	38,136			
EQUIPMENT TYPE:	DISTRIBUTION	RCPT	4,680	4,680	EXISTING CONNECTED LOAD:	153.1	425
BUSS RATING:	800 A				REMOVED CONNECTED LOAD:	14.6	40.5
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	38.8	107.7
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	177.3	492.2
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	181.3	503.3
AIC AVAILABLE:	EXISTING PANEL						
AIC RATING:	22000 A						

EXIST: 'MSA' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS	kVA	AMPS
BRANCH:	NORMAL	MTRS	34,136	38,136			
EQUIPMENT TYPE:	SWITCHBOARD	RCPT	4,680	4,680	EXISTING CONNECTED LOAD:	2115.3	2538.3
BUSS RATING:	3,000 A				REMOVED CONNECTED LOAD:	14.6	17.6
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	38.8	46.7
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	2134.5	2567.4
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	2138.5	2572.2
AIC AVAILABLE:	EXISTING PANEL						
AIC RATING:	50000 A						

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COMMUNICATIONS GENERAL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
J	JUNCTION BOX - SIZE AND MOUNTING AS REQUIRED.
FINE DETAIL LEVEL / MEDIUM DETAIL LEVEL / —CT— / COARSE DETAIL LEVEL	CABLE TRAY - MAIN CABLE PATH SEE DETAIL FOR MORE INFORMATION.
FINE DETAIL LEVEL / MEDIUM DETAIL LEVEL / —LR— / COARSE DETAIL LEVEL	LADDER RUNWAY - SIZE AND LOCATION AS SHOWN ON DRAWINGS.
	2", UNLESS NOTED OTHERWISE, HILTI SPEED SLEEVE FIRE RATED PATHWAY DEVICE, PART NUMBER 236323, THROUGH RATED WALL.
EMT	2", UNLESS NOTED OTHERWISE, EMT SLEEVE EQUIPPED WITH PLASTIC BUSHING ON BOTH ENDS, THROUGH WALL. RATING SHALL MATCH WALL BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.
	VERTICAL CORE AND SLEEVE THROUGH FLOOR. PROVIDE EMT SLEEVE, EQUIPPED WITH PLASTIC BUSHING ON BOTH ENDS. REFER TO FLOOR PLAN FOR SIZING. RATING SHALL MATCH FLOOR BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR RATINGS.
	2-POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN.
	4-POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN.
	VERTICAL WIRE MANAGER. SIZE AND LOCATION AS SHOWN.
	GROUND BUSS BAR - 1/4" x 4" x 12"; CPI PART #40153-012 OR EQUAL.

COMMUNICATIONS ABBREVIATIONS (FOR CLARIFICATION ONLY)

- EX EXISTING
- AFF ABOVE FINISHED FLOOR
- AFC ABOVE FINISHED CEILING
- BFC BELOW FINISHED CEILING
- W WALL PHONE
- MON MONITOR
- PM PATIENT MONITOR
- TV TELEVISION
- TELE TELEMETRY
- CT CABLE TRAY
- FM FETAL MONITOR
- MED MEDICATION
- PRT PRINTER
- CPU COMPUTER

TELEVISION SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MNTG. HT. UNO (SEE NOTE 1)
TV1	TELEVISION OUTLET, ONE COAX CABLE	AA	84" WALL AFF
TV2	TELEVISION OUTLET, ONE DATA CABLE	AA	84" WALL AFF
TV3	TELEVISION OUTLET, ONE DATA CABLE & ONE COAX CABLE	AA	48" WALL AFF

DATA BACKBOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DUAL GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. IF LOCATED IN NON ACCESSIBLE CEILING SPACE PROVIDE BACK BOX "AA".

DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. 48" AFF INDICATES TO THE TOP OF THE DEVICE
3. 18" AFF INDICATES TO THE CENTER OF DEVICE
4. 50" AFF INDICATES TO THE BOTTOM OF DEVICE
5. 80" AFF INDICATES TO THE BOTTOM OF DEVICE
6. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE
7. COORDINATE FINAL OUTLET LOCATION WITH TELEVISION MOUNTING BRACKETS

VIDEO SURVEILLANCE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION			BACK BOX *	MNTG. HT. UNO (SEE NOTE 1)
XX M T EXAMPLE	M = MOUNT T = TECHNOLOGY (SPECIFIC TO DEVICE) (CAN BE MULTIPLE)	M: C = CEILING D = DESK F = FLUSH H = HIDDEN M = MULLION	P = POLE R = RACK S = SURFACE T = TURNSTILE W = WALL		
M T	CAMERA D = DOME E = ENVIRONMENTAL	B = BOX V = VANDAL RESISTANT	C = COVERT P = POE		AS REQD.
M T	CAMERA - PAN / TILT / ZOOM D = DOME E = ENVIRONMENTAL	B = BOX V = VANDAL RESISTANT	P = POE		AS REQD.
M T	MONITOR T = W/ TILT D = DESKTOP	S = SWING ARM R = RECESSED	M = MOMENTARY L = LED INDICATORS	D2	AS REQD.
NVR M T	VIDEO RECORDER D = DVR	N = NVR			AS REQD.
KBD	VIDEO CONTROLLER				AS REQD.
SW M T	SWITCH K = KEYSWITCH	P = PUSHBUTTON	T = TOGGLE	S2	AS REQD.
PS M T	POWER SUPPLY A = 12VDC	B = 24VAC	P = POE		AS REQD.

VIDEO SURVEILLANCE NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.
2. REFER TO CM SERIES DRAWING FOR DETAILED ELEVATIONS.
3. * SEE BACKBOX / ROUGH-IN LEGEND BELOW.

BACK BOX LEGEND

BACK BOX / INFRASTRUCTURE ANNOTATION

SYMBOL	DESCRIPTION
S1	SINGLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
S2	SINGLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D1	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D2	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D3	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D4	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D5	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D6	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
P1	PROPRIETARY BACK BOX, REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION MANUAL FOR SPECIFIC REQUIREMENTS. 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.

PHYSIOLOGICAL MONITORING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MNTG. HT. UNO (SEE NOTE 1)
PM_N	PHYSIOLOGICAL MONITORING DATA OUTLET, N = CABLE QUANITY	AA	54" WALL AFF
TELE_N	TELEMETRY MONITORING DATA OUTLET, N = CABLE QUANITY	AA	54" WALL AFF
FM_N	FETAL MONITORING DATA OUTLET, N = CABLE QUANITY	AA	54" WALL AFF
PM_N	CEILING MOUNTED PHYSIOLOGICAL MONITORING DATA OUTLET, N = CABLE QUANITY	CC	ABOVE ACCESSIBLE CEILING
TELE_N	CEILING MOUNTED TELEMENTRY MONITORING DATA OUTLET, N = CABLE QUANITY	CC	
FM_N	CEILING MOUNTED FETAL MONITORING DATA OUTLET, N = CABLE QUANITY	CC	

DATA BACKBOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DUAL GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. IF LOCATED IN NON ACCESSIBLE CEILING SPACE PROVIDE BACK BOX "AA".

DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. 48" AFF INDICATES TO THE TOP OF THE DEVICE
3. 18" AFF INDICATES TO THE CENTER OF DEVICE
4. 50" AFF INDICATES TO THE BOTTOM OF DEVICE
5. 80" AFF INDICATES TO THE BOTTOM OF DEVICE
6. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

PUBLIC ADDRESS SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		MNTG. HT. UNO (SEE NOTE 1)
S M Z	PA SPEAKER Z = ZONE NUMBER M = MOUNT	M: C = LAY IN CEILING F = CEILING FLUSH (HARD LID) W = WALL P = POLE	L = LANDSCAPE PD = PENDANT	NA
S M Z	PA SPEAKER - HORN TYPE Z = ZONE NUMBER M = MOUNT	M: W = WALL P = POLE L = LANDSCAPE		NA
V Z	PA VOLUME CONTROL - DOUBLE GANG BACKBOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER, 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. Z = ZONE NUMBER			48" AFF
AMP M Z	PA AMPLIFIER Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET		NA
PAHE M Z	PA HEADEND - MIXER, AUDIO INPUTS AND CONTROLS Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET		NA

PUBLIC ADDRESS CABLE SCHEDULE

SYMBOL	DESCRIPTION
"S1"	3 PAIR STP #18 AWG - PUBLIC ADDRESS BACKBONE
"S2"	2 CONDUCTOR #18 AWG - SPEAKER CABLE
"S3"	2 CONDUCTOR #16 AWG - SPEAKER CABLE
"S4"	2 CONDUCTOR #14 AWG - SPEAKER CABLE
"S5"	2 CONDUCTOR #16 AWG WITH WATERBLOCK OUTDOOR RATED - SPEAKER CABLE

NURSE CALL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. 48" AFF INDICATES TO THE TOP OF THE DEVICE
3. 18" AFF INDICATES TO THE CENTER OF DEVICE
4. 60" AFF INDICATES TO THE BOTTOM OF DEVICE
5. 80" AFF INDICATES TO THE BOTTOM OF DEVICE
6. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

PUBLIC ADDRESS ZONE SCHEDULE

SYMBOL	DESCRIPTION
1A	PUBLIC DINING - ZONE SHALL CONSIST OF MUSIC PLAYING - ZONE SHALL HAVE AMBIENT NOICE SENSORS TO AUTOMATICALLY ADJUST SPEAKER VOLUME TO AMBIENT NOICE
1B	MAIN ENTRANCE / PUBLIC WAITING - ZONE SHALL CONSIST OF MUSIC PLAYING - ZONE SHALL HAVE AMBIENT NOICE SENSORS TO AUTOMATICALLY ADJUST SPEAKER VOLUME TO AMBIENT NOICE
1C	ED WAITING - ZONE SHALL CONSIST OF MUSIC PLAYING - ZONE SHALL HAVE AMBIENT NOICE SENSORS TO AUTOMATICALLY ADJUST SPEAKER VOLUME TO AMBIENT NOICE
1D	MAIN WAITING / PUBLIC CORRIDOR LEADING DOWN TO ADMIN / PUBLIC CORRIDOR BETWEEN DINING AND MAIN ENTRANCE / PUBLIC CORRIDOR LEADING FROM MAIN ENTRANCE TO ED WAITING / GIFT SHOP / PUBLIC CORRIDOR ON 2ND FLOOR / SURGERY WAITING / PUBLIC WAITING OUTSIDE ICU / 3RD, 4TH, AND 5TH FLOOR WAITING AREAS / LARGE PUBLIC RESTROOMS - ZONE SHALL CONSIST OF MUSIC PLAYING
2A	EXTERIOR PUBLIC DINING - ZONE SHALL CONSIST OF MUSIC PLAYING - SPEAKERS SHALL BE LANDSCAPE STYLE
2B	EXTERIOR CANCER CENTER HEALING GARDEN - ZONE SHALL CONSIST OF MUSIC PLAYING FROM A DEDICATED MUSIC SOURCE SEPARATE FROM REST OF HOSPITAL - SPEAKERS SHALL BE LANDSCAPE STYLE
3A	3RD FLOOR WOMEN'S SERVICES NONPUBLIC CORRIDORS - ZONE SHALL CONSIST OF MUSIC PLAYING - ZONE SHALL INCLUDE LULLABY PLAYING - MUSIC AND LULLABY SHALL HAVE THE ABILITY TO BE SET TO PLAY AT CERTAIN TIME FRAMES
3B	3RD FLOOR WOMEN'S SERVICES EMPLOYEE AREAS - ZONE SHALL NOT CONSIST OF MUSIC PLAYING
4A	CANCER CENTER WAITING AREAS AND CANCER CENTER CORRIDORS - ZONE SHALL CONSIST OF MUSIC PLAYING - AMPLIFIER FOR THIS ZONE SHALL BE LOCATED IN THE CANCER CENTER LOW VOLTAGE ROOM
4B	CANCER CENTER EMPLOYEE AREAS - ZONE SHALL CONSIST OF MUSIC PLAYING - AMPLIFIER FOR THIS ZONE SHALL BE LOCATED IN THE CANCER CENTER LOW VOLTAGE ROOM
5A	ALL NONPUBLIC CORRIDORS ON LEVELS 1, 2, 4, & 5 / FAMILY LOUNGES - ZONE SHALL CONSIST OF MUSIC PLAYING
5B	ALL NONPUBLIC EMPLOYEE AREAS ON LEVELS 1, 2, 4, & 5 / 6TH FLOOR SHELL SPACE - ZONE SHALL NOT CONSIST OF MUSIC PLAYING
6A	ALL NONPUBLIC CORRIDORS IN THE ICU ON LEVEL 2 - ZONE SHALL CONSIST OF MUSIC PLAYING
6B	ALL NONPUBLIC EMPLOYEE AREAS IN THE ICU ON LEVEL 2 - ZONE SHALL NOT CONSIST OF MUSIC PLAYING
7A	ALL NONPUBLIC CORRIDORS IN THE ED AREA - ZONE SHALL CONSIST OF MUSIC PLAYING
7B	ALL NONPUBLIC EMPLOYEE AREAS IN THE ED AREA - ZONE SHALL NOT CONSIST OF MUSIC PLAYING

INTRUSION DETECTION SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION			BACK BOX *	MNTG. HT. UNO (SEE NOTE 1)
XX M T EXAMPLE	M = MOUNT T = TECHNOLOGY (SPECIFIC TO DEVICE) (CAN BE MULTIPLE)	M: C = CEILING D = DESK F = FLUSH H = HIDDEN M = MULLION	P = POLE R = RACK S = SURFACE T = TURNSTILE W = WALL		
ICP M T	INTRUSION CONTROL PANEL G = GSM	N = NETWORK			AS REQD.
KPD M T	KEYPAD S = STANDARD	W = WIRELESS		D2	48" AFF
GB M T	GLASS BREAK SENSOR A = AUDIO	S = SHOCK			AS REQD.
DS M T	DOOR SENSOR E = ELECTROMECHANICAL P = PANEL DOOR	H = HIGH SECURITY W = WIRELESS	O = OVERHEAD		AS REQD.
M T	MOTION DETECTOR D = DUAL TECH W = WIRELESS	L = LONG RANGE T = TRI-TECH		S1	AS REQD.
M T	SOUNDER B = BELL K = KLAXON	C = CHIME S = SIREN	H = HORN Z = BUZZER	S1	AS REQD.
PB M T	PANIC / DURESS BUTTON L = LATCHING	M = MOMENTARY			AS REQD.

VIDEO SURVEILLANCE NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.
2. REFER TO CM SERIES DRAWING FOR DETAILED ELEVATIONS.
3. * SEE BACKBOX / ROUGH-IN LEGEND BELOW.

NURSE CALL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MNTG. HT. UNO (SEE NOTE 1)
<D>	DOME LIGHT. REFER TO ARCHICECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	--	90" WALL
<2>	ZONE DOME LIGHT. REFER TO ARCHICECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	--	90" WALL
SP	SINGLE PATIENT STATION	--	48" WALL
DP	DUAL PATIENT STATION	--	48" WALL
EP	EMERGENCY PULL STATION	--	48" WALL
PA	EMERGENCY PULL STATION WITH AUDIO	--	48" WALL
2B	DUAL PUSH BUTTON STATION - STAFF ASSIST & CODE BLUE	--	48" WALL
2P	DUAL PUSH BUTTON STATION - STAFF ASSIST & CODE PINK	--	48" WALL
CB	SINGLE PUSH BUTTON STATION - CODE BLUE	--	48" WALL
CP	SINGLE PUSH BUTTON STATION - CODE PINK	--	48" WALL
SA	SINGLE PUSH BUTTON STATION - STAFF ASSIST	--	48" WALL
ST	STAFF TERMINAL	--	48" WALL
SS	STAFF STATION	--	48" WALL
D	DUTY STATION	--	48" WALL
2J	2 JACK AUXILIARY ALARM INPUT STATION	--	48" WALL
4J	4 JACK AUXILIARY ALARM INPUT STATION	--	48" WALL
RK	37 PIN BED CONNECTOR OUTLET	--	18" WALL
BR	BED/ROOM MANAGEMENT STATION	--	48" WALL
DC	DOMELESS CONTROLLER	--	ABOVE CEILING
NM	NURSE CALL CONSOLE	--	18" WALL
NCSER	NURSE CALL HEADEND (SERVERS)	--	--
LL	LOW VOLTAGE LIGHT CONTROLLER (PROVIDED BY OTHER; SHOWN FOR COORDINATION PURPOSES ONLY.)	--	--
SD	SMOKE DETECTOR (PROVIDED BY OTHER; SHOWN FOR COORDINATION PURPOSES ONLY.)	--	--
NCT	NURSE CALL TERMINAL CABINET. WALL MOUNTED.	--	--
TVI	NURSE CALL TO TV CONTROL OUTLET	--	--
CC	PILLOW/CALL CORD AUX INPUT	--	48" WALL

NURSE CALL BACKBOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	3 DEVICE BACK BOX, NON GANGABLE, 3 1/2" DEEP AND 3/4" CONDUIT PATHWAYS STUBBED ABOVE ACCESSIBLE CEILING SPACE.
DD	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DUAL GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
EE	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH BLANK COVER PLATE AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.

NURSE CALL CABLE SCHEDULE

SYMBOL	DESCRIPTION	MODEL # (BELDEN)
A	4 PAIR CAT 5/5E 24AWG.	1583A
B	2 CONDUCTOR 12AWG, NURSE CALL POWER.	5000UE
C	3 CONDUCTOR 22AWG, TV AND LOW VOLTAGE LIGHT RELAY.	5501UE
S	2 CONDUCTOR 18AWG, SPEAKER WIRE.	5300UE

NURSE CALL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. STUB UP 3/4" CONDUIT INTO SIDE OF THE PATIENT STATION BACKBOX WITHIN THE SAME ROOM. PATHWAY SHOULD NOT EXCEED 8 FEET TOTAL LENGTH.
3. NURSE CONSOLE RECEPTACLE SHALL BE MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED, AND THE ACTUAL DEVICE SHALL RESIDE ON THE COUNTERTOP.
4. TV CONTROL OUTLET SHALL BE MOUNTED IN SAME BACK BOX AS THE TV COAX/DATA CABLE.

ACCESS CONTROL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION			BACK BOX *	MNTG. HT. UNO (SEE NOTE 1)
XX M T EXAMPLE	M = MOUNT T = TECHNOLOGY (SPECIFIC TO DEVICE) (CAN BE MULTIPLE)	M: C = CEILING D = DESK F = FLUSH H = HIDDEN M = MULLION	P = POLE R = RACK S = SURFACE T = TURNSTILE W = WALL		
CR M T	CARD ACCESS READER B = BARCODE W = WIEGAND F = ELEVATOR FLOOR CALL	P = PROXIMITY S = SMART CARD H = ELEVATOR HALL CALL	M = MAGSTRIPE I = iCLASS	D1	48" AFF
BR M T	BIOMETRIC ACCESS READER H = HAND GEOMETRY R = RETINA	F = FINGERPRINT V = VOICE	I = IRIS	D1	48" AFF
CK M T	CARD ACCESS READER W/ KEYPAD B = BARCODE W = WIEGAND F = ELEVATOR FLOOR CALL	P = PROXIMITY S = SMART CARD H = ELEVATOR HALL CALL	M = MAGSTRIPE I = iCLASS	D2	48" AFF
KP M T	KEYPAD D = DRY CONTACT	W = WIEGAND		D1	48" AFF
PB M T	PUSH BUTTON R = DOOR RELEASE	X = REQUEST TO EXIT		S2	48" AFF
PIR M T	REX MOTION DETECTOR I = INTRUSION DETECTION	X = REQUEST TO EXIT		S1	AS REQD.
ACP M T	ACCESS CONTROL PANEL N = NETWORK INTERFACE	P = POE AT DOOR			AS REQD.
IC M T	INTERCOM M = MASTER STATION R = CARD READER	S = SUBSTATION V = VIDEO CAMERA		P1	48" AFF
DC M T	DOOR CONTACT M = METAL DOOR	S = STANDARD	H = HIGH SECURITY		AS REQD.
ML M T	MAGNETIC LOCK F = FACE MOUNT	S = SHEAR MOUNT	D = DELAYED EGRESS		AS REQD.
KS M T	KEY SWITCH A = ALTERNATE ACTION IC = INTERCHANGEABLE CORE	L = LATCHING K = KEYED ALIKE	M = MOMENTARY L = LED INDICATORS	S2	48" AFF
LPS M T	LOCK POWER SUPPLY FA = FIRE ALARM RELAY	R = RELAY BOARD			AS REQD.

ACCESS CONTROL NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.
2. REFER TO CM SERIES DRAWING FOR DETAILED ELEVATIONS.
3. * SEE BACKBOX / ROUGH-IN LEGEND BELOW.

DATA SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MNTG. HT. UNO (SEE NOTE 1)
N OR N	DATA AND/OR VOICE OUTLET, N=CABLE QUANTITY. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. = EMPTY BACK BOX; 2V = 2 VOICE CABLES 1 = 1 DATA CABLE; 2 = 1 DATA / 1 VOICE CABLES 2 = 2 DATA CABLES; 3 = 2 DATA / 1 VOICE CABLES 3 = 3 DATA CABLES; 4 = 2 DATA / 2 VOICE CABLES 4 = 4 DATA CABLES; 3D,1V = 3 DATA / 1 VOICE CABLES 1 = 1 VOICE CABLE; 1D,2V = 1 DATA / 3 VOICE CABLES	AA	18" WALL AFF
W OR W	DATA AND/OR VOICE OUTLET, WALL PHONE STYLE FACEPLATE, 1 DATA/VOICE CABLE. PROVIDE DOUBLE GANGE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANGE DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.	BB	48" WALL AFF
W OR W	DATA AND/OR VOICE OUTLET, WALL PHONE STYLE FACEPLATE, 1 DATA/VOICE CABLE, MOUNTED ABOVE COUNTER. PROVIDE DOUBLE GANGE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANGE DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.	BB	48" WALL AFF
N OR N	DATA AND/OR VOICE OUTLET, N = CABLE QUANTITY, MOUNTED ABOVE COUNTER. PROVIDE DOUBLE GANGE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANGE DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.	AA	42" WALL AFF
N OR N	FLOOR MOUNTED DATA AND/OR VOICE OUTLET, N = CABLE QUANTITY. REFER TO ELECTRICAL SHEETS FOR ROUGH IN REQUIREMENTS.	CC	FLOOR
N OR N	CEILING MOUNTED DATA AND/OR VOICE OUTLET, N = CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON FLOOR PLANS.	DD	ABOVE ACCESSIBLE CEILING
WAP N	CEILING MOUNTED WIRELESS ACCESS POINT, N = CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON FLOOR PLANS.	DD	ABOVE ACCESSIBLE CEILING

DATA BACKBOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	WALL PHONE STYLE FACEPLATE, DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	REFER TO ELECTRICAL (E) SHEETS FOR ROUGH IN REQUIREMENTS.
DD	OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 50 FEET COILED AT THE LOCATION.

DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. 48" AFF INDICATES TO THE TOP OF THE DEVICE
3. 18" AFF INDICATES TO THE CENTER OF DEVICE
4. 60" AFF INDICATES TO THE BOTTOM OF DEVICE
5. 80" AFF INDICATES TO THE BOTTOM OF DEVICE
6. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

100% CONSTRUCTION DOCUMENT

DATE 02/06/2026

REVISIONS

#	DESCRIPTION	DATE

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: _____
Eng. Reg. No.: _____
Date: _____

SHEET TITLE

GENERAL INFORMATION - TECHNOLOGY

SHEET NUMBER

T0.01

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SECTION 271300

COMMUNICATIONS BACKBONE CABLING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
1. UTP cable.
2. Optical fiber cabling.
3. Coaxial cable.
4. Cable connecting hardware, patch panels, and cross-connects.
5. Cabling identification products.

B. Unless otherwise expressly specified in any referenced specification, code, or standard; the latest edition of the relevant codes and standards listed herein including any addenda in effect on the date of construction shall be considered the governing document(s).

C. Related Sections:
1. Section 27 0526 "Grounding and Bonding for Communications Systems".
2. Section 27 0528 "Pathways for Communications Systems".

1.03 DEFINITIONS

A. BICSI: Building Industry Consulting Service International.

B. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.

C. EMI: Electromagnetic interference.

D. IDC: Insulation displacement connector.

E. LAN: Local area network.

F. RCDD: Registered Communications Distribution Designer.

G. UTP: Unshielded twisted pair.

1.04 PERFORMANCE REQUIREMENTS

A. General Performance: Backbone cabling system shall comply with transmission standards in TIA/EIA-568-C.1, when tested according to test procedures of this standard.

1.05 ACTION SUBMITTALS

1. Product Data: Manufacturer product data sheets for each material and equipment specified. Mark each sheet to clearly identify the specific products and component parts, and data applicable to installation.
2. Assurance/Quality Control Submittals:
   a. Proposed test forms for backbone cable.
      1) List of test equipment to be used for copper and fiber testing (i.e. Fluke, Pentascanner, etc.) List of all tests to be performed as a part of the certification process.

   b. Documentation of manufacturer's current qualification of contractor as a manufacturer approved contractor.
      1) Provide number of manufacturer certified installers. Owner may request a list by name and proof of training.
3. Subcontractor shall provide as built shop drawings (with drop numbers) 45 days after receiving RFP award
4. As built shop drawings will be updated and provided to Seton IS in an electronic PDF format on a monthly basis.

1.06 INFORMATIONAL SUBMITTALS

1. Microsoft Project timeline to include, but not limited to, the following milestones.
   a. Material order date.
   b. Material receipt date.
   c. Project start date (by phase if required).
2. Weekly status report, to be submitted each Friday, of work progress until project is complete. Status reports should be submitted as follows:
   a. General Contractor Representative
3. Shop drawings with cable labeling. Cables should be numbered with a scheme that is coordinated with the owner's LAN representative.

1.07 CLOSEOUT SUBMITTALS

1. Certification of level of performance as evidenced by comprehensive test results for fiber backbone cable, copper backbone and coaxial backbone cabling. Electronic and hard copy test results should be provided to the owner's LAN representative.
2. Record drawings with as-built information and finalized versions of the shop drawings. Numbered cables shall be shown on these drawings using a numbering scheme coordinated with the owner's LAN representative. These submittals shall be on the base plan as provided by the Architect or Owner. These submittals shall be four copies in reproducible print form and one in electronic format (AutoCAD or DXF file) presented to the owner's LAN representative. .
3. Manufacturer's system certification supporting the product warranty. It is the contractor's responsibility to have the installation certified with the Manufacturer's warranty guaranty.

1.08 QUALITY ASSURANCE

A. Contractor Qualifications
1. Vendors shall be Manufacturer certified.
2. All Work shall be performed by certified technicians skilled in their respective trades as stated in this division. All materials, equipment and devices shall be installed in accordance with the recommendations of the manufacturer and in the best standard practice to bring about results of a first class condition.
3. Sub-subcontracting is not permitted.
4. The contractor will be responsible for any damage caused, either to the physical structure or existing communications cables or systems. Any damage will be repaired as a part of the basic service to be provided under this specification, at no additional cost to the owner.
5. Cabling Installer must have personnel certified by BICSI on staff.

   a. Layout Responsibility: Preparation of Shop Drawings shall be under the direct supervision of RCDD.
   b. 50% of on the site workers shall be BICSI certified.
   c. Installation Supervision: Installation shall be under the direct supervision of Registered Technician, who shall be present at all times when Work of this Section is performed at Project site.
   d. Scope inspection Responsibility: inspections of all work shall be by RCDD

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. General Performance: backbone cabling system shall comply with transmission standards in TIA/EIA-568-C.1 when tested according to test procedures of this specification.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.02 UTP CABLE

A. Manufacturers: provide products by the following:
1. Belden

B. Description: 100-ohm, multi-pair UTP, formed into 25-pair binder groups covered with a thermoplastic jacket.
1. Comply with ICEA S-90-661 for mechanical properties.
2. Comply with TIA/EIA-568-C.2 for performance specifications.
3. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:
   a. Communications, Plenum Rated: Type CMP, complying with NFPA 262.

C. 25 Pair UTP Cable
1. Provide 25 pair UTP Category 3 cable, Belden Part Number DPLN25

D. 50 Pair UTP Cable
1. Provide 50 pair UTP Category 3 cable, Belden Part Number DPLN50

2.03 UTP CABLE HARDWARE

A. Manufacturers: provide products by the following:
1. Belden

B. General Requirements for Cable Connecting Hardware: Comply with TIA/EIA-568-B.2, IDC type, with modules designed for punch-down caps or tools. Cables shall be terminated with connecting hardware of same category or higher.

C. Patch Panel: Panels housing multiple-numbered jack units with IDC-type connectors at each jack for permanent termination of pair groups of installed cables.
1. 24 Position Patch panel:
   a. Provide 24 position, Belden part number AX106368.

2.04 OPTICAL FIBER CABLE

A. Manufacturers: provide products by the following:
1. Corning

B. Description: Multimode, 50/125-micrometer, nonconductive, tight buffer, optical fiber cable.

1. Comply with ICEA S-83-596 for mechanical properties.
2. Comply with TIA/EIA-568-C.3 for performance specifications.
3. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444, UL 1651, and NFPA 70 for the following types:
   a. Plenum Rated, Nonconductive: Type OFNP, complying with NFPA 262.

C. 6 Fiber:
1. Provide 6 strand OM4 multimode fiber cable, Corning Part Number 006T88-31190-D3.

D. 12 Fiber:
1. Provide 12 strand OM4 multimode fiber cable, Corning Part Number 012T88-31190-D3.

E. 24 Fiber:
1. Provide 24 strand OM4 multimode fiber cable, Corning Part Number 024T88-31190-D3.

2.05 OPTICAL FIBER CABLE HARDWARE

A. Manufacturers: provide products by the following:
1. Corning

B. Fiber Connecting Enclosures: Modular panels housing multiple cable adapter panels.
1. 2 adapter panel enclosure:
   a. Rack mounted enclosure capable of housing 2 fiber cable adapter panels, Corning PCH-01U
      1) Cable strain-relief bracket: Corning PC1-STRN
      2) Universal Cable Clamp: Corning UCC-001
2. 4 adapter panel enclosure:
   a. Rack mounted enclosure capable of housing 4 fiber cable adapter panels, Corning PCH-02U.
      1) Cable strain-relief bracket: Corning PC2-STRN
      2) Universal Cable Clamp: Corning UCC-001
3. 12 adapter panel enclosure:
   a. Rack mounted enclosure capable of housing 12 fiber cable adapter panels, Corning PCH-04U.
      1) Cable strain-relief bracket: Corning PC4-STRN
      2) Universal Cable Clamp: Corning UCC-001
4. 2 adapter panel enclosure:
   a. Wall mounted enclosure capable of housing 2 fiber cable adapter panels, Corning WCH-02P

C. Fiber Cable Adapter Panels: Panel housing multiple fiber connectors housed within the fiber connecting enclosure.
1. 12 Fiber Adapter Panel:
   a. Provide adapter panel loaded with LC-style duplex connectors, Corning Part Number CCH-CP12-E4.
2. 24 Fiber Adapter Panel:
   a. Provide adapter panel loaded with LC-style duplex connectors, Corning Part Number CCH-CP24-E4.

D. Cable Connecting Hardware:
1. Comply with TIA/EIA-568-C.3.
2. Type LC connectors. Corning Part Number FUSE-LC9M50L-6

2.06 COAXIAL CABLE

A. Manufacturers: provide products by the following:
1. Belden

B. Cable Characteristics: Broadband type, recommended by cable manufacturer specifically for broadband data transmission applications. Coaxial cable and accessories shall have 75-ohm nominal impedance.

C. NFPA and UL compliance, listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 1655 and with NFPA 70 "Radio and Television Equipment" and "Community Antenna Television and Radio Distribution" Articles. Types are as follows:
1. CATV Plenum Rated: Type CATVP, complying with NFPA 262.

D. TV Coaxial Cable:
1. RG-11/U: NFPA 70, Type CATV.
   a. No. 14 AWG, solid, bare copper-covered steel conductor.
   b. Gas-injected, foam-PE insulation.
2. Quad shielded with 100 percent bonded aluminum foil polyester tape, 60 percent aluminum braid, 100 percent aluminum foil polyester tape and 60 percent aluminum braid.
3. Belden part number 7999AP.

2.07 IDENTIFICATION PRODUCTS

A. Comply with TIA/EIA-606-B and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

PART 3 - EXECUTION

3.01 INSTALLATION OF CABLES

A. Comply with NECA 1.

B. General Requirements for Cabling:
1. Comply with TIA/EIA-568-C.1.
2. Comply with BICSI ITSIM, 6th Edition.
3. Terminate all conductors; no cable shall contain unterminated elements. Make terminations only at indicated cross-connects and patch panels.
4. Cables may not be spliced.
5. Install lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radii than minimums recommended by manufacturer.
6. Bundle, lace, and train cables to termination points without exceeding manufacturer's limitations on bending radii.
7. Wiring within Racks and Enclosures:
   a. Bundle, lace, and train cables to termination points with no excess and without exceeding manufacturer's limitations on bending radii.
   b. Install lacing bars and distribution spools.

   c. Install conductors parallel with or at right angles to sides and back of rack or enclosure.
8. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
9. Install a 10-foot (3m) long service loop on each end of cable.
10. Pulling Cable: Monitor cable pull tensions being careful not to exceed manufacturer's limitations on pulling tension.
11. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.
12. Separation from EMI Sources:
   a. Comply with BICSI TDMM and TIA-569-C for separating unshielded copper voice and data communication cable from potential EMI sources, including electrical power lines and equipment.
   b. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (610 mm).
   c. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).
   d. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: No requirement.
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).
   e. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
   f. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

C. UTP Backbone Cable Installation and Termination:
1. Comply with TIA/EIA-568-C.2.

2. Do not untwist UTP cables more than 1/2 inch (12 mm) from the point of termination to maintain cable geometry.
3. UTP backbone cabling shall be supported using J-Hook style hangers mounted above accessible ceiling areas at highest point possible.
   a. Cable shall be supported independently of all other cable types and communication systems.
4. UTP backbone cabling shall be installed within conduit pathways in areas where cable will be inaccessible.
5. UTP Backbone cable entry point into communication rooms shall maintain a separation of 10 feet (3m) from the fiber backbone entry point.
6. UTP backbone cable connecting the main distribution frame within the data center to each communication room shall be terminated using rack mounted 24 port patch panels.
   a. One pair per port shall be terminated on pins 4-5, leaving the violet-slate pair unterminated.
7. UTP Backbone cable connecting the main distribution frame within the data center to the demarcation point of the service provider shall be terminated using rack mounted 24 port patch panels within the data center and terminated using RJ21X style termination block on the demarcation end.
   a. One pair per port shall be terminated on pins 4-5 within the patch panel, leaving the violet-slate pair of each 25 pair bundle unterminated.
   b. Locate RJ21X termination block next to service provider copper termination point.

D. Optical Fiber Backbone Cable Installation and Termination:
1. Comply with TIA/EIA-568-C.3.
2. Fiber backbone cabling shall be supported using J-Hook style hangers mounted above accessible ceiling areas at highest point possible.
   a. Cable shall be supported independently of all other cable types and communication systems.
3. Fiber backbone cabling shall be installed within conduit pathways in areas where cable will be inaccessible.
4. Non-clinical fiber backbone infrastructure shall consist of two redundant fiber backbones referred to as "Primary" and "Redundant".
   a. Both the primary and redundant fiber backbone pathways shall maintain a minimum separation of 50 feet (15m) from one another until they arrive at the communications room being served.
   b. Fiber Backbone cable entry point into communication rooms shall maintain a separation of 10 feet (3m) from the UTP copper backbone entry point.
   c. Provide 4U fiber enclosures within the data center and demarcation room.
      1) Enclosures shall be equipped with 12 fiber, LC-style duplex adapter panels.
      2) Provide blank panel adapters for enclosure slots not used.
      3) Enclosures to include clear plastic door covering connector panels.
   d. Provide 2U fiber enclosures within the communication rooms.
      1) Enclosures shall be equipped with 12 fiber, LC-style duplex adapter panels.
      2) Provide blank panel adapters for enclosure slots not used.
      3) Enclosures to include clear plastic door covering connector panels.

E. Coaxial Backbone Cable Installation:
1. Coaxial backbone cabling shall be supported using J-Hook style hangers mounted above accessible ceiling areas at highest point possible.
   a. Cable shall be supported independently of all other cable types and communication systems.
2. Coaxial backbone cabling shall be install within conduit pathways in areas where cable will be inaccessible.
3. Contractor shall install TV Coaxial backbone cable as shown on drawings between each TV,I location and main distribution location. Cable shall be labeled by contractor for termination by CATV service provider.

3.02 FIRESTOPPING

A. Comply with TIA/EIA-569-C, Annex A, "Firestopping."

3.03 IDENTIFICATION

A. Identify system components, wiring, and cabling complying with TIA/EIA-606-B.
1. Administration Class: 2.
2. Color-code cross-connect fields and apply colors to voice and data service backboards, connections, covers, and labels.

B. Cable Schedule: Post in prominent location in each communications room. List incoming and outgoing cables and their designations, origins, and destinations. Furnish electronic record of all drawings, in software format selected by Owner.

C. Cabling Administration Drawings: Show building floor plans with cabling administration-point labeling. Identify labeling convention and show labels for telecommunications closets, backbone pathways and cables, entrance pathways and cables, termination hardware and positions.

D. Cable and Wire Identification:
1. Label each cable within 4 inches (100 mm) of each termination.
2. Fiber Backbone Cable: Label each cable at intervals not exceeding 15 feet (4.5 m).
3. Identification within Connector Fields in communication rooms: Label each connector and each discrete unit of cable-terminating and connecting hardware.

E. Labels shall be preprinted or computer-printed type with printing area and font color that contrasts with cable jacket color but still complies with requirements in TIA/EIA 606-B, for the following:
1. Cables use flexible vinyl or polyester that flexes as cables are bent.

3.04 FIELD QUALITY CONTROL

A. Perform tests and inspections:
1. Visually inspect UTP, coaxial and optical fiber jacket.
2. Inspect cabling terminations in communications rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA/EIA-568-C.1.
3. Visually inspect cable placement, cable termination, and labeling of all components.
4. Test UTP copper backbone cabling for shorts, opens, intermittent faults, and polarity between conductors. Test cables after termination but not cross-connection.
5. Optical Fiber Cable Tests:

   a. Test instruments shall meet or exceed applicable requirements in TIA/EIA-568-C.1. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.
   b. Link End-to-End Attenuation Tests:
      1) Multimode backbone link measurements: Test at 850 or 1300 nm in 1 direction according to TIA/EIA-526-14-A, Method B, One Reference Jumper.
      2) Attenuation test results for backbone links shall be less than 2.0 dB. Attenuation test results shall be less than that calculated according to equation in TIA/EIA-568-C.1.
6. Coaxial Cable Tests: Visually inspect cable placement and labeling of all components.

B. Data for each measurement shall be documented. Data for submittals shall be transferred from the test instrument to the computer, saved as text files, and printed and submitted.

C. End-to-end cabling will be considered defective if it does not pass tests and inspections.

END OF SECTION

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PROJECT 257406.00

COMMUNITY HOSPITAL MOB 1 PET CT

2373 G ROAD - SUITE #140
GRAND JUNCTION, CO
81505

100% CONSTRUCTION DOCUMENT

DATE 02/06/2026

REVISIONS

#	DESCRIPTION	DATE

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: _____
Eng. Reg. No.: _____
Date: _____

SHEET TITLE

GENERAL INFORMATION - TECHNOLOGY

SHEET NUMBER

T0.02

@BOULDER ASSOCIATES
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SECTION 27 1500

COMMUNICATIONS HORIZONTAL CABLING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. UTP cabling.
2. Coaxial cable.
3. Cable connecting hardware, patch panels, and cross-connects.
4. Cabling system identification products.

Unless otherwise expressly specified in any referenced specification, code, or standard; the latest edition of the relevant codes and standards listed herein including any addenda in effect on the date of construction shall be considered the governing document(s).

B. Related Requirements:

1. Section 27 1300 "Communications Backbone Cabling" for voice and data cabling associated with system panels and devices.

1.3 DEFINITIONS

A. BICSI: Building Industry Consulting Service International.

B. Consolidation Point: A location for interconnection between horizontal cables extending from building pathways and horizontal cables extending into furniture pathways.

C. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.

D. EMI: Electromagnetic interference.

E. IDC: Insulation displacement connector.

F. LAN: Local area network.

G. MUTOA: Multiuser telecommunications outlet assembly, a grouping in one location of several telecommunications outlet/connectors.

H. Outlet/Connectors: A connecting device in the work area on which horizontal cable or outlet cable terminates.

I. RCDD: Registered Communications Distribution Designer.

J. UTP: Unshielded twisted pair.

K. WAP: Wireless Access Point

1.4 ACTION SUBMITTALS

1. Product Data: Manufacturer product data sheets for each material and equipment specified. Mark each sheet to clearly identify the specific products and component parts, and data applicable to installation.
2. Assurance/Quality Control Submittals:
   a. Proposed test forms for horizontal UTP cable.
      1) List of test equipment to be used for copper testing (i.e. Fluke, Pentascanner, etc.) List of all tests to be performed as a part of the certification process.
   b. Documentation of manufacturer's current qualification of contractor as a manufacturer approved contractor.
      1) Provide number of manufacturer certified installers. Owner may request a list by name and proof of training.
3. Subcontractor shall provide as built shop drawings (with drop numbers) 45 days after receiving RFP award
4. A separate drawing will be required for each closet zone
5. As built shop drawings will be updated and provided to PCH IT in an electronic PDF format on a monthly basis.

1.5 INFORMATIONAL SUBMITTALS

1. Microsoft Project timeline to include, but not limited to, the following milestones.
   a. Material order date.
   b. Material receipt date.
   c. Project start date (by phase if required).
2. Weekly status report, to be submitted each Friday, of work progress until project is complete. Status reports should be submitted as follows:
   a. General Contractor Representative
3. Shop drawings with horizontal cabling labeling, both outlet and Telecommunications Room/IDF location. Outlets should be numbered with a scheme that is coordinated with the owner's LAN representative.

1.6 CLOSEOUT SUBMITTALS

1. Certification of level of performance as evidenced by comprehensive test results for UTP horizontal cabling. Electronic and hard copy test results should be provided to the owner's LAN representative.
2. Record drawings with as-built information and finalized versions of the shop drawings. Numbered outlets in each room shall be shown on these drawings using a numbering scheme coordinated with the owner's LAN representative. These submittals shall be on the base plan as provided by the Architect or Owner. These submittals shall be four copies in reproducible print form and one in electronic format (AutoCAD or DXF file) presented to the owner's LAN representative. One hard copy shall be placed within each Telecommunications Room/IDF and Main Computer Room/MDF.
3. Manufacturer's system certification supporting the product and performance warranty. It is the contractor's responsibility to have the installation certified with the Manufacturer's warranty guaranty.

1.7 QUALITY ASSURANCE

A. Contractor Qualifications
1. Vendors shall be Manufacturer certified.
2. All Work shall be performed by certified technicians skilled in their respective trades as stated in this division. All materials, equipment and devices shall be installed in accordance with the recommendations of the manufacturer and in the best standard practice to bring about results of a first class condition.
3. Sub-subcontracting is not permitted.
4. The contractor will be responsible for any damage caused, either to the physical structure or existing communications cables or systems. Any damage will be repaired as a part of the basic service to be provided under this specification, at no additional cost to the owner.
5. Cabling Installer must have personnel certified by BICSI on staff.
   a. Layout Responsibility: Preparation of Shop Drawings shall be under the direct supervision of an RCDD.
   b. 50% of on the site workers shall be BICSI certified.
   c. Installation Supervision: Installation shall be under the direct supervision of Registered Technician, who shall be present at all times when Work of this Section is performed at Project site.
   d. Scope inspection Responsibility: inspections of all work shall be by an RCDD

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA/EIA-568-C.1 when tested according to test procedures of this specification.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 UTP CABLE

A. Manufacturers: provide products by the following:
1. Belden

B. Description: 100-ohm, four-pair UTP, covered with a thermoplastic jacket.
1. Comply with TIA/EIA-568-C.2 for performance specifications.
2. Comply with TIA/EIA-568-C.2, Category 6.
3. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:
   a. Communications, Riser Rated: Type CMP.

C. Voice and Data UTP Cable:
1. Provide 4 pair UTP Category 6a cable, Belden series or approved alternate.
   a. Belden 10GXS33
   b. Cabling shall have a Yellow jacket.

2.3 UTP CABLE HARDWARE

A. Manufacturers: provide products by the following:
1. Belden or approved alternate

B. General Requirements for Cable Connecting Hardware: Comply with TIA/EIA-568-C.2, IDC type, with modules designed for punch-down caps or tools. Cables shall be terminated with connecting hardware of same category or higher.

C. Jacks and Jack Assemblies: Modular, color-coded, eight-position modular receptacle units with integral IDC-type terminals.
1. Non-Clinical Voice and Data Jack assemblies:
   a. Typical Outlet: Provide Category 6a, RJ45, 8-Position, 8-wire jack assembly.
      1) Belden 10GX Modular Jack.
      2) Analog voice shall be Gray.
      3) Voice/Data outlets shall be Orange.
      4) WAP outlets shall be Yellow.

D. Workstation Faceplate: Single and multi-port assemblies designed to house jacks and jack assemblies as shown.
1. Plastic Faceplate: High-impact plastic
2. Metal Faceplate: Stainless steel.
   a. Wall Mounted Phone: Single gang, equipped with mushroom mounting studs.

E. Patch Panel: Flat modular panels housing multiple-numbered color coded jack assemblies with IDC-type connectors at each jack for permanent termination of pair groups of installed cables.

1. 24 Position Flat Patch panel:
   a. Provide modular, 24 position.

2.4 COAXIAL CABLE

A. Manufacturers: provide products by the following:
1. Belden or approved alternate

B. Cable Characteristics: Broadband type, recommended by cable manufacturer specifically for broadband data transmission applications. Coaxial cable and accessories shall have 75-ohm nominal impedance.

C. NFPA and UL compliance, listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 1655 and with NFPA 70 "Radio and Television Equipment" and "Community Antenna Television and Radio Distribution" Articles. Types are as follows:
1. CATV Plenum Rated: Type CATVP, complying with NFPA 262.

D. TV Coaxial Cable:
1. RG6/U No. 18 AWG, solid, bare copper conductor.
2. Gas-injected, foam-PE insulation.
3. Quad shielded with 100 percent bonded aluminum foil polyester tape, 60 percent aluminum braid, 100 percent aluminum foil polyester tape and 40 percent aluminum braid.
4. Belden part number 6339Q8 or approved alternate.

2.5 COAXIAL CABLE HARDWARE

A. Manufacturers: provide products by the following:
1. Belden or approved alternate

B. TV Coaxial-Cable Connectors:
1. Type F, 75 ohms, compression-style Belden Part Number FSNS6U or approved alternate.

C. TV Coaxial-Cable Jack Assemblies:
1. Type F, 75 ohms modular insert, Belden part number AX102907 or approved alternate.

2.6 IDENTIFICATION PRODUCTS

A. Comply with TIA/EIA-606-B and UL 969 for labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

PART 3 - EXECUTION

3.1 INSTALLATION OF CABLES

A. General Requirements for Cabling:
1. Comply with NECA 1.
2. Comply with TIA-568.0-D, TIA-568.0-D-1, TIA-568.1-D, TIA-568.1-D-1,TIA-568.2-D, TIA-568.3-D and TIA-568.4-D.
3. Comply with BICSI ITSIM, 6th Edition.
4. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, and patch panels.
5. Bridged taps and splices shall not be installed in the horizontal cabling.
6. Splitters shall not be installed as part of the cabling.
7. The maximum allowable horizontal cable length is 275 feet (84 m). This maximum allowable length does not include an allowance for the length of 32 feet (10 m) to the workstation equipment or in the horizontal cross-connect.
8. Wiring within Racks and Enclosures:
   a. Bundle, lace, and train cables to termination points with no excess and without exceeding manufacturer's limitations on bending radii.
   b. Install lacing bars and distribution spools.
   c. Install conductors parallel with or at right angles to sides and back of rack or enclosure.
9. Bundle, lace, and train cable without exceeding manufacturer's limitations on bending radii.
10. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
11. Install a 10-foot (3m) long service loop on each end of cable.
12. Pulling Cable: Monitor cable pull tensions being careful not to exceed manufacturer's limitations on pulling tension.
13. Only Velcro shall be used for fastening cables. Tie wraps are not approved for use with CAT6 cables.
14. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.
15. Separation from EMI Sources:
   a. Comply with BICSI TDMM and TIA-569-C for separating unshielded copper voice and data communication cable from potential EMI sources, including electrical power lines and equipment.
   b. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (610 mm).
   c. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).
   d. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
      1) Electrical Equipment Rating Less Than 2 kVA: No requirement.
      2) Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
      3) Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).
   e. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
   f. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

B. UTP Cable Installation:
1. Comply with TIA/EIA-568-C.2.
2. Do not untwist UTP cable pairs more than 1/2 inch (12 mm) from the point of termination to maintain cable geometry.
3. Only PCH IT cabling to be installed within cable tray. All other UTP cable to be supported independently of one another using J-hook style supports.

C. Coaxial Cable Installation:
1. Coaxial cabling shall be supported using J-Hook style hangers mounted above accessible ceiling areas.
   a. Cable shall be supported independently of all other cable types and communication systems.
2. Coaxial cabling shall be install within conduit pathways in areas where cable will be inaccessible.

3.2 FIRESTOPPING

A. Comply with TIA-569-C, Annex A, "Firestopping."

3.3 IDENTIFICATION

A. Identify system components, wiring, and cabling complying with TIA/EIA-606-B.
1. Administration Class: "2".

B. Cable Schedule: Post in prominent location in each communications room. List incoming and outgoing cables and their designations, origins, and destinations. Furnish electronic record of all drawings, in software format selected by Owner.

C. Cabling Administration Drawings: Show building floor plans with cabling administration-point labeling. Identify labeling convention and show labels for telecommunications closets, horizontal cables, work area outlets. Furnish electronic record of all drawings, in software format selected by Owner.

D. Cable and Wire Identification:
1. Label each cable within 4 inches (100 mm) of each termination.

E. Jack Assemblies
1. Label each jack assembly in each workstation outlet, cabinet, rack, and patch panel.

F. Labels shall be preprinted or computer-printed type with printing area and font color that contrasts with cable jacket, faceplate, and patch panel color but still complies with requirements in TIA/EIA-606-B.
1. Cables use flexible vinyl or polyester that flex as cables are bent.

3.4 FIELD QUALITY CONTROL

A. Perform the following tests and inspections:

1. Visually inspect cable jacket.
2. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA/EIA-568-C.1.
3. Visually inspect cable placement, cable termination, and labeling of all components.
4. UTP Performance Tests:
   a. Test for each outlet. Perform the following tests according to TIA-568.0-D, TIA-568.0-D-1, TIA-568.1-D, TIA-568.1-D-1,TIA-568.2-D, TIA-568.3-D and TIA-568.4-D:
      1) Wire map.
      2) Length (physical vs. electrical, and length requirements).
      3) Insertion loss.
      4) Near-end crosstalk (NEXT) loss.
      5) Power sum near-end crosstalk (PSNEXT) loss.
      6) Equal-level far-end crosstalk (ELFEXT).
      7) Power sum equal-level far-end crosstalk (PSELFEXT).
      8) Return loss.
      9) Propagation delay.
      10) Delay skew.
5. Coaxial Cable Tests: Visually inspect cable placement, cable termination, and labeling of all components.

B. Document data for each measurement. Data for submittals shall be transferred from the test instrument to the computer, saved as text files, and printed and submitted.

C. End-to-end cabling will be considered defective if it does not pass tests and inspections.

END OF SECTION

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REVISIONS

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Date: _____

SHEET TITLE

GENERAL INFORMATION - TECHNOLOGY

SHEET NUMBER

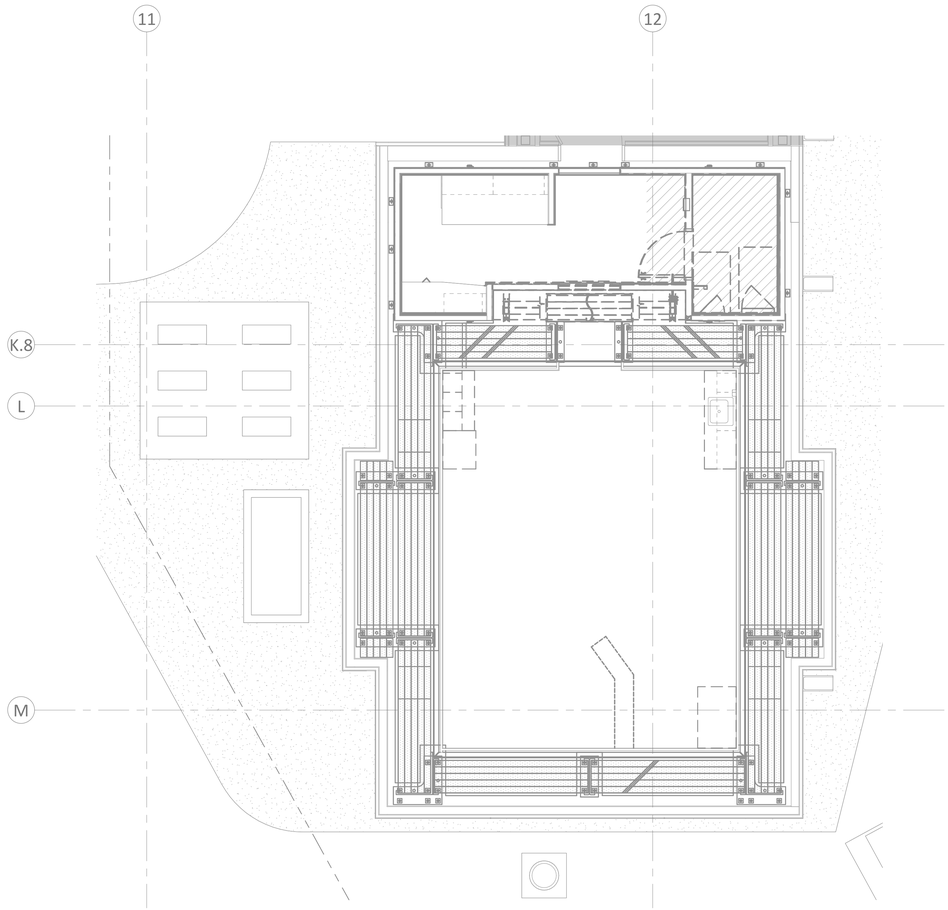
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GENERAL DEMO NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

(#) LEGEND NOTES



1 DEMO PLAN - FLOOR - COMMUNICATIONS

TD2.11 1/4" = 1'-0"

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DEMO FLOOR PLAN - COMMUNICATIONS

SHEET NUMBER

TD2.11

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GENERAL NOTES

A. REFER TO GENERAL INFORMATION/LEGEND SHEET.

LEGEND NOTES

1. EXISTING TECHNOLOGY CLOSET. ALL NEW TELECOM CABLING AND NURSE CALL TO BE RUN TO AND TERMIMATED IN THIS LOCATION



1 FLOOR PLAN - FLOOR 1 - TECHNOLOGY SITE PLAN
T1.01 1/8" = 1'-0"

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SHEET TITLE

OVERALL PLAN -Technology

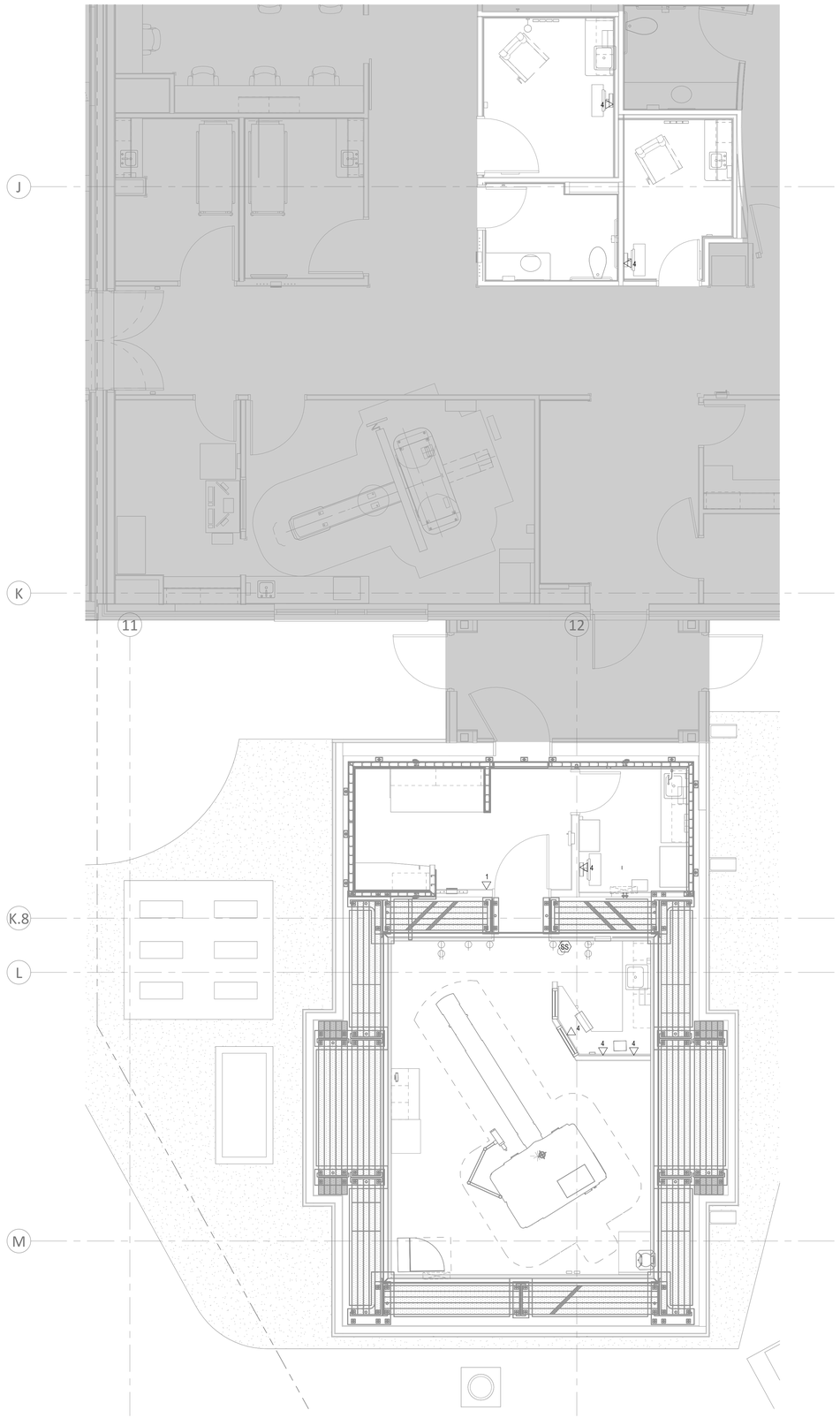
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T1.01

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1 FLOOR PLAN - FLOOR 1 - AREA A - COMMUNICATIONS
T2.11 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET T-0.1 FOR LEGENDS, NOTES, AND ABBREVIATIONS
B. REFER TO AND COORDINATE WITH ARCHITECTURAL ELEVATIONS, FLOOR PLANS, AND DETAILS FOR EXACT LOCATION OF ALL DEVICES.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILING SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE.
D. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.
E. CONTRACTORS SHALL INSTALL ADDITIONAL PATCH PANELS IF NEEDED TO SUPPORT NEWLY INSTALLED DATA CABLING.

(#) LEGEND NOTES

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FLOOR PLAN - COMMUNICATIONS

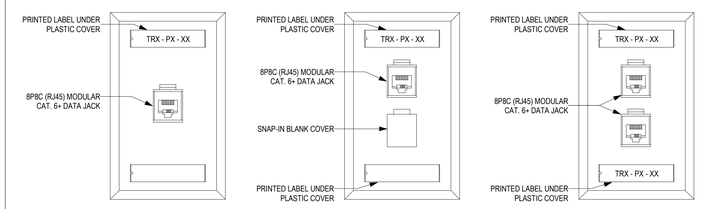
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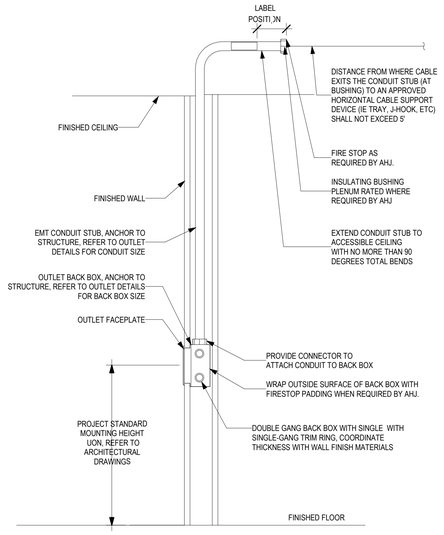
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1 DATA/PHONE FACEPLATE LABELING

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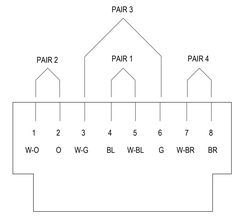


04 TECHNOLOGY OUTLET ROUGH-IN DETAIL

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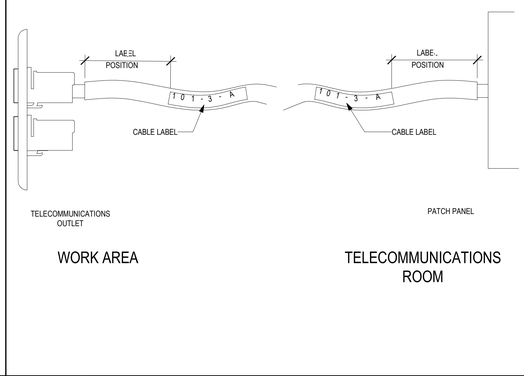
GENERAL NOTES

1. FURNISH AND INSTALL TERMINATION HARDWARE COMPLIANT WITH TIA 568B WIRING PIN/PAIR ASSIGNMENTS.



03 4 PAIR UTP CABLE TERMINATION

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02 CABLE LABEL PLACEMENT DETAIL

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DETAILS - TECHNOLOGY

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