

| FLOOR FINISH LEGEND | | | | | | |
|---------------------|-------------------|--------------|---------------------|------------------------------|---------------------|-------|
| TYPE | FILL | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| F1 | [Green Fill] | CARPET TILE | SHAW CONTRACT GROUP | PARK STYLE DRIFT TILE / ST42 | HKE / 38751 | |
| F2 | [Blue Fill] | VINYL SHEET | MANNINGTON | BIOSPEC SR | FLAX 67361 | |
| F3 | [Red Fill] | VINYL SHEET | MANNINGTON | BIOSPEC SR | BEDROCK 67369 | |
| F4 | [Blue/White Fill] | CERAMIC TILE | CROSSVILLE | NOTORIUS 12x12 | FEMME FATALE NTR 01 | 1 |

| BASE FINISH LEGEND | | | | | |
|--------------------|-------------------|---------------------|------------------------------|---------------------|-------|
| TYPE | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| B1 | CARPET BASE | SHAW CONTRACT GROUP | PARK STYLE DRIFT TILE / ST42 | HKE / 38751 | |
| B3 | INTEGRAL COVE | MANNINGTON | BIOSPEC | FLAX 67361 | |
| B4 | CERAMIC COVE BASE | CROSSVILLE | NOTORIUS 6x12 | FEMME FATALE NTR 01 | 1, 3 |

| WALL FINISH LEGEND | | | | | |
|--------------------|--------------|------------------|----------------|---------------------|---------|
| TYPE | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| W1 | FIELD PAINT | SHERWIN WILLIAMS | | PURE WHITE SW7005 | |
| W2 | ACCENT PAINT | SHERWIN WILLIAMS | | WORLDLY GRAY SW7043 | |
| W3 | ACCENT PAINT | SHERWIN WILLIAMS | | RAINSTORM SW6230 | |
| W4 | ACCENT PAINT | SHERWIN WILLIAMS | | WATER SQUIRT SW7132 | |
| W5 | CERAMIC TILE | CROSSVILLE | NOTORIUS 12x24 | FEMME FATALE NTR 01 | 1, 3, 4 |

| FLOOR TRANSITION LEGEND | | | | | |
|-------------------------|-------------------|--------------|---------|--------------|-------|
| TYPE | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| T1 | RUBBER TRANSITION | MANNINGTON | FUSION | CHARCOAL 217 | |
| T2 | ARBLE THRESHOLD | | | | 2 |

| MILLWORK LEGEND | | | | | |
|-----------------|-----------------|--------------|------------------|--------------------|-------|
| TYPE | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| PL-1 | LASTIC LAMINATE | WILSONART | PREMIUM LAMINATE | 7970K-18 HIGH LINE | |
| SS-1 | SOLID SURFACE | DUPONT | CORIAN | CONCRETE | |

GENERAL NOTES:

ROOM FINISH SCHEDULE NOTES

- GROUT COLOR - MAPEI 93 WARM GREY
- SIZE 2x3/8" ADA
- UTILIZE SCHLUTER JOLLY SATIN ANODIZED ALUMINUM AND ALL TILE EDGES
- WALL TILE HEIGHT AT 4'-0" A.F.F.

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound/IIHC_014.30 - Primary Childrens Ultrasound ARCH_r21.rvt



FINISH PLAN LEGEND:

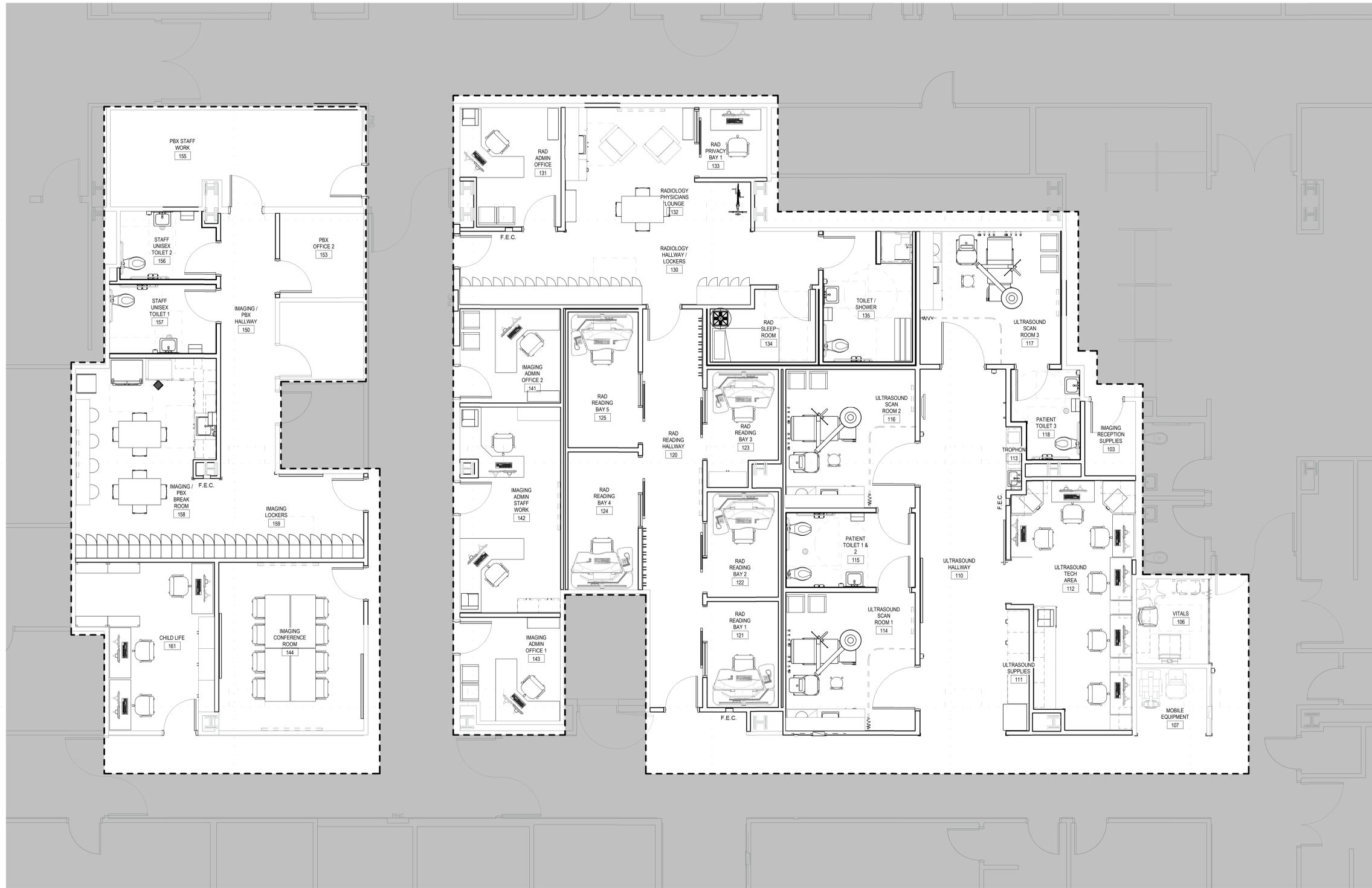
| | |
|--|---|
| | WALL FINISH TYPE / BASE TYPE |
| | FLOOR FINISH INSTALLATION DIRECTIONAL ARROW |



BIM 360/IIHC_014.30 - Primary Childrens Ultrasound ARCH_r21.rvt

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A6 MAIN LEVEL FURNISHINGS PLAN
AI111 SCALE 1/4" = 1'-0"



GENERAL NOTES:

1. THE FOLLOWING WORK ACTIVITIES AND OTHER ACTIVITIES RESULTING IN EXCESSIVE NOISE ARE ONLY PERMITTED DURING THE FOLLOWING HOURS: MON-SUN 8:30 PM - 7:30 AM NO RESTRICTIONS. ACTIVITIES: CORE DRILLING, SAW CUTTING CONCRETE, SAW CUTTING METAL STUDS, POWER ACTUATED FASTENER INSTALLATION.
2. CONTRACTOR TO EVALUATE CONSTRUCTION PHASING PRIOR TO BID AND PROVIDE ALL NECESSARY TEMPORARY HVAC COMPONENTS, HVAC COMPONENTS (INCLUDING LABOR NECESSARY TO MAINTAIN HVAC IN PHASE TWO DURING CONSTRUCTION OF PHASE ONE.

KEY NOTES:

JRCA
ARCHITECTS
A Galloway Co.

577 South 200 East
SLC, Utah 84111
Or: (801) 533-2100
gallowayus.com
jrcaesign.com

Intermountain Healthcare
Primary Children's Hospital - Ultrasound

100 NORTH MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJ. #: IHC000014.30

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FURNISHINGS PLAN

AI111

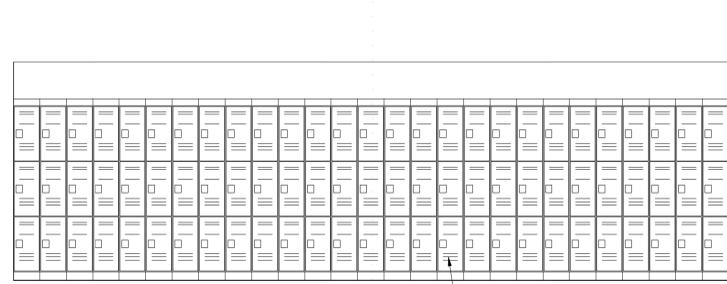


GENERAL NOTES:

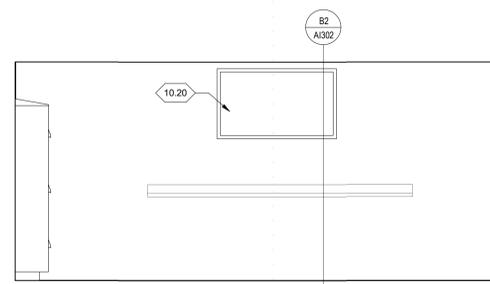
- 1 CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS, QUANTITIES, AND CONDITIONS NEW AND EXISTING. NOTIFY ARCHITECT/OWNER REPRESENTATIVE OF ANY DISCREPANCIES.
- 2 ENLARGED PLANS MAY BE ROTATED OR MIRRORRED. COORDINATE WITH MAIN FLOOR PLANS.
- 3 ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.
- 4 PROVIDE METAL TRIM OR CASING AT ALL EDGES GYPSUM BOARD SURFACES, UNLESS OTHERWISE NOTED.
- 5 PROVIDE METAL CORNER BEAT AT ALL OUTSIDE CORNERS OF GYPSUM BOARD SURFACES, UNLESS OTHERWISE NOTED.
- 6 CONTRACTOR TO PROVIDE FIRE TREATED WOOD BLOCKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS, HANDRAILS, AND WALL MOUNTED FIXTURES.
- 7 ALL GYPSUM BOARD EXPOSED WALL CORNERS TO HAVE 4" TALL CORNER GUARDS, UNLESS NOTED OTHERWISE.
- 8 NOT ALL KEYNOTES APPLY TO THIS SHEET.
- 9 REFER TO FINISH PLANS FOR FLOOR PATTERNS AND FINISHES.
- 10 FURNITURE SHOWN FOR REFERENCE, BY OTHERS UNLESS OTHERWISE NOTED.

KEY NOTES:

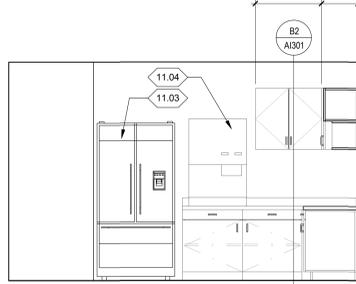
- 10.04 METAL LOCKERS, COORD. W/ SPECIFICATION
- 10.06 PRIVACY CURTAIN O.F.C.I.
- 10.07 TOWEL DISPENSER
- 10.08 SOAP DISPENSER
- 10.20 WALL MOUNTED MONITOR O.F.C.I. COORD. POWER AND DATA LOCATIONS, W/ ELECTRICAL DRAWINGS
- 10.21 WOOD LOCKERS, COORD. W/ SPEC. & SECTIONS
- 11.03 REFRIGERATOR O.F.C.I.
- 11.04 ICE MACHINE O.F.O.I. BACKSPLASH TO BE SEGMENTED FOR WALL-MOUNTED DRAIN BOX. BOTTOM EDGE OF DRAIN BOX TO BE MOUNTED LEVEL WITH TOP OF COUNTERTOP. COORD. W/ PLUMBING DRAWINGS.
- 11.07 MULTI FUNCTION PRINTER O.F.O.I. COOR. POWER & DATA LOCATIONS W/ ELECTRICAL PLAN
- 11.08 BLANKET WARMER O.F.O.I. COOR. POWER WITH ELECTRICAL PLAN
- 11.09 TROPHON EQUIPMENT O.F.O.I. COOR. POWER & DATA LOCATIONS W/ ELECTRICAL PLAN
- 12.01 FURNITURE BY OTHERS
- 22.05 SINK AS SCHEDULED COORD. W/ PLUMBING
- 22.07 HAND WASH SINK AS SCHEDULED, COORDINATE WITH PLUMBING DRAWINGS



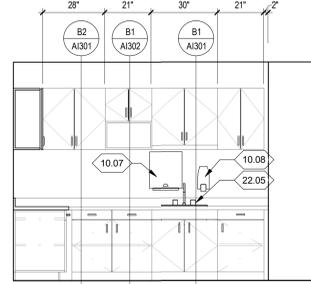
D6 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



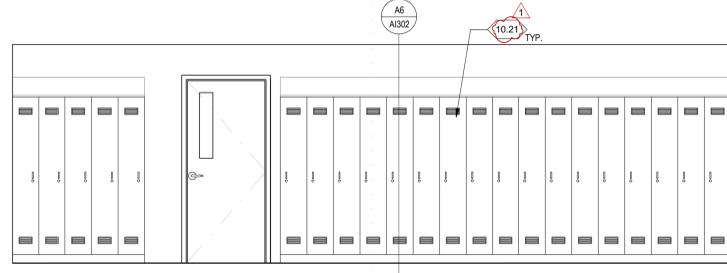
D4 INTERIOR ELEVATION
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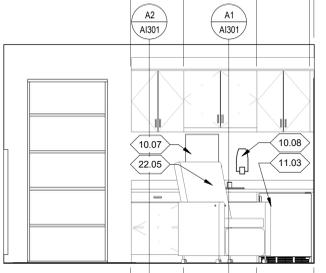
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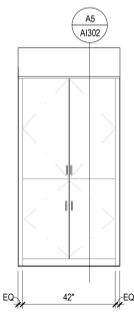
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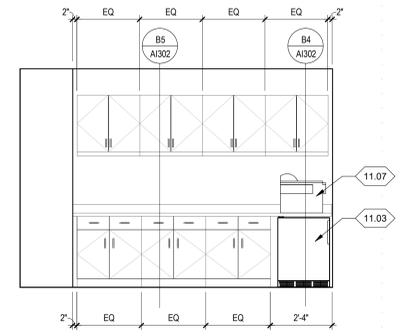
C3 INTERIOR ELEVATION
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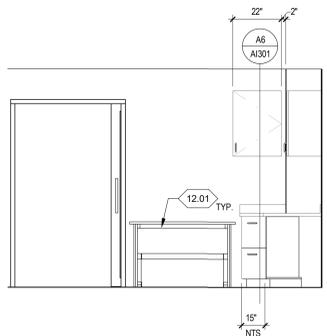
C1 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



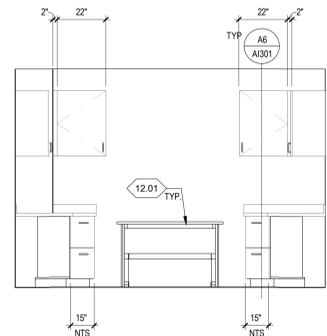
B6 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



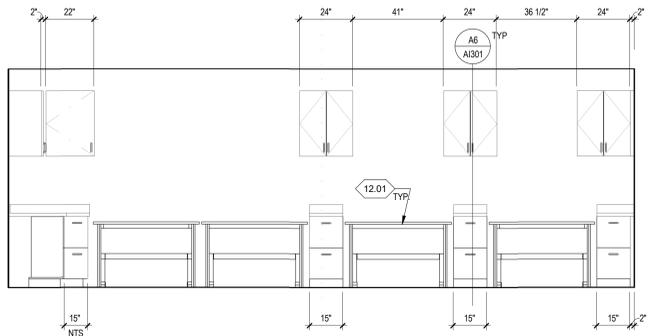
B5 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



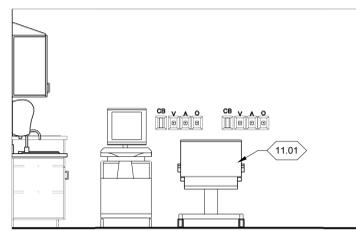
B4 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



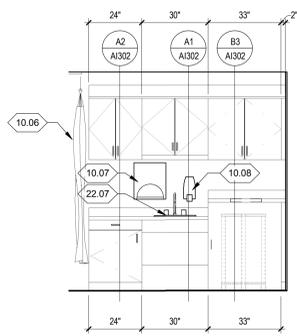
B3 INTERIOR ELEVATION
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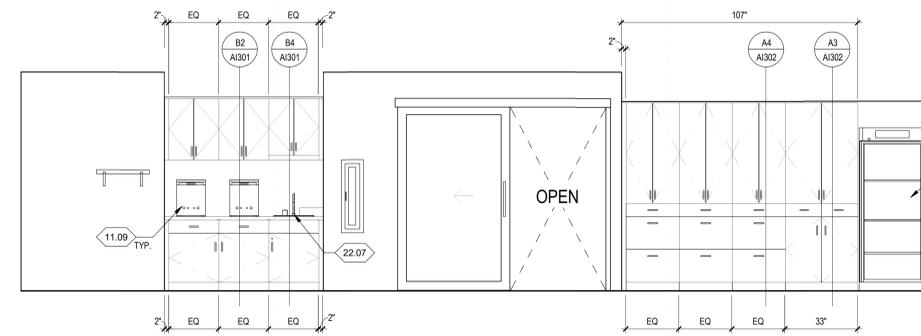
B2 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



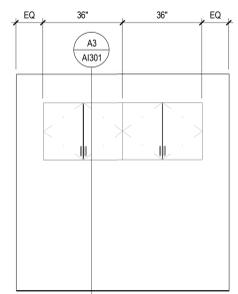
A6 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



A5 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



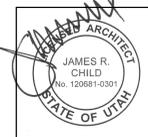
A4 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"



A1 INTERIOR ELEVATION
 AI201 SCALE 3/8" = 1'-0"

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INTERIOR ELEVATIONS

AI201

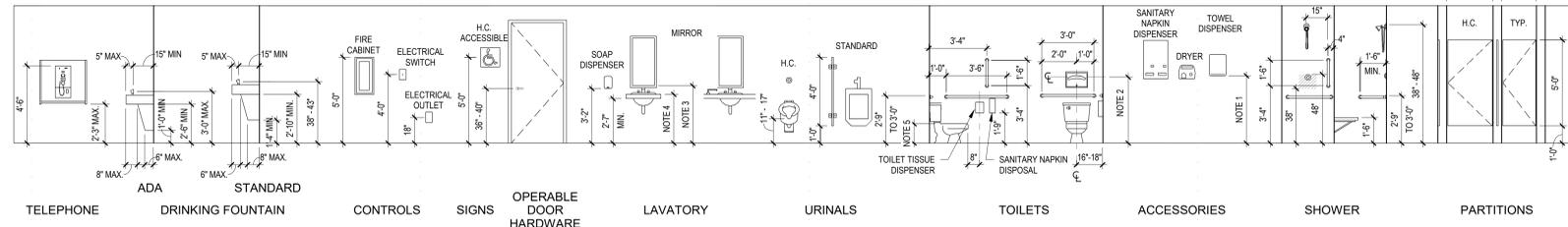
GENERAL NOTES:

- ALL MEASUREMENTS ARE TO FINISH FLOOR
- ALL ADA ACCESSIBLE FIXTURES TO COMPLY WITH ANSI A117 LATEST EDITION
- ENCLOSURE CAN PROVIDE A MAX. OF 10" AND CANNOT REDUCE THE MIN. REQUIRED CLEAR WIDTH OF ACCESSIBLE PATH.

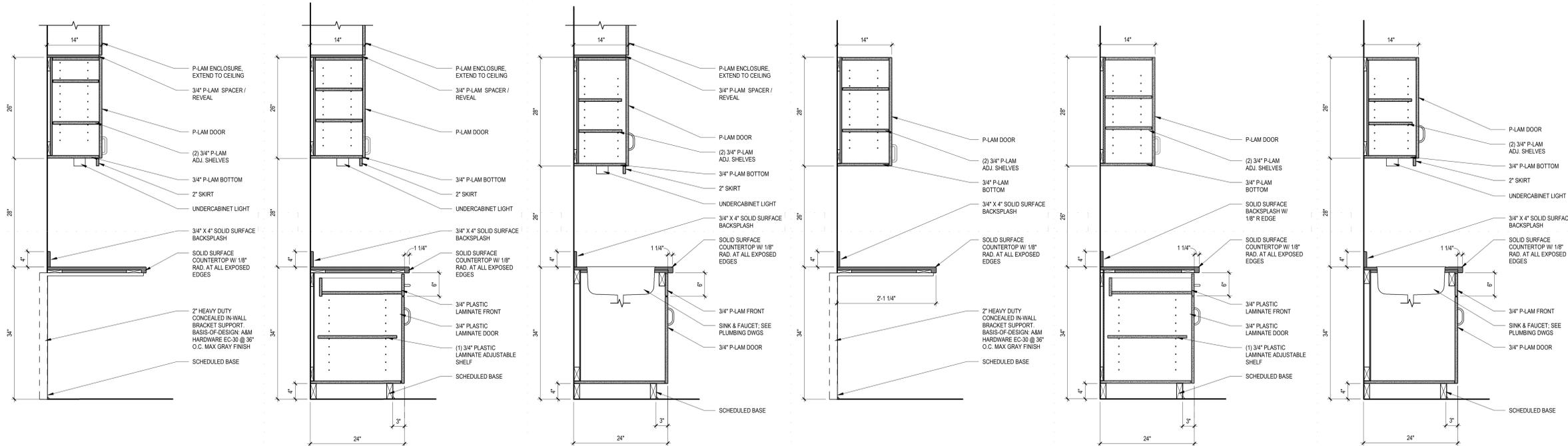
NOTE 3: 40" MAX. TO BOTTOM OF REFLECTING SURFACE

NOTE 5: HEIGHT TO TOP OF SEAT 17" MIN TO 19" MAX A.F.F.

NOTE 1: 48" MAX. HT. FOR ACCESSORY CONTROLS ACCESSED BY A FORWARD OR SIDE REACH



STANDARD MOUNTING HEIGHTS



B6 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

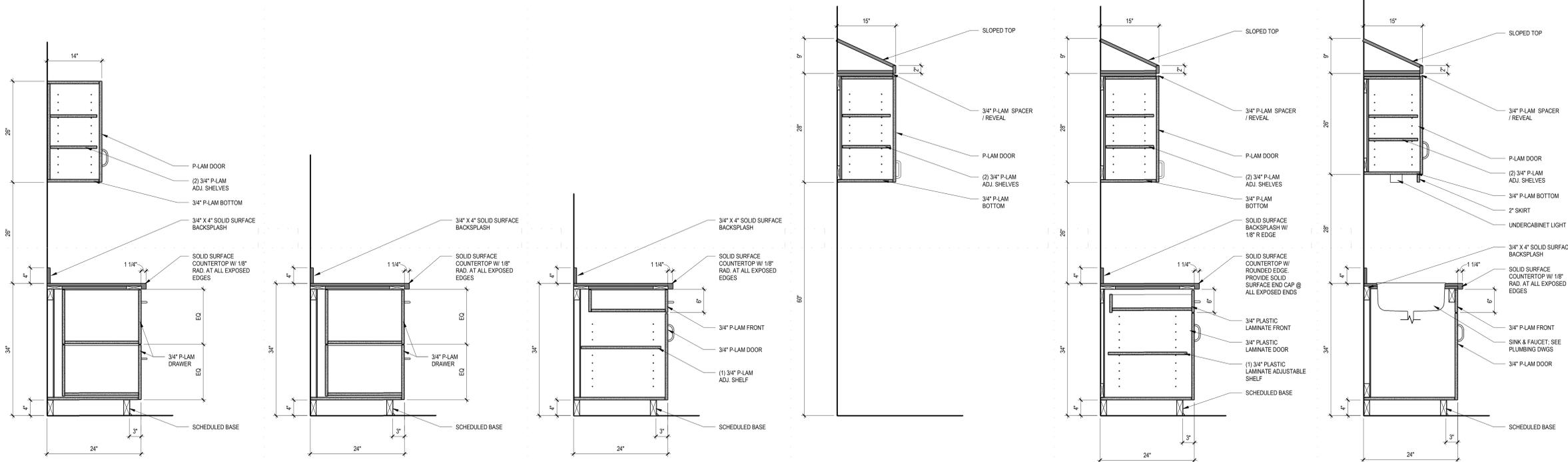
B5 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

B4 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

B3 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

B2 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

B1 AI301 CASEWORK SECTION SCALE 1" = 1'-0"



A6 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

A5 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

A4 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

A3 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

A2 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

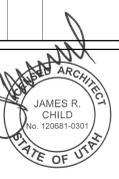
A1 AI301 CASEWORK SECTION SCALE 1" = 1'-0"

GENERAL NOTES:

PROJ. #: IHC000014.30

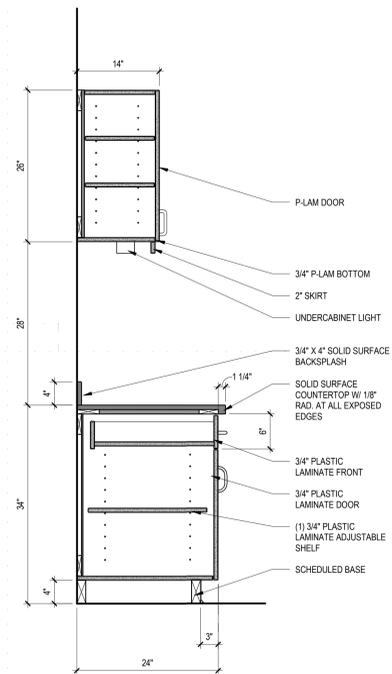
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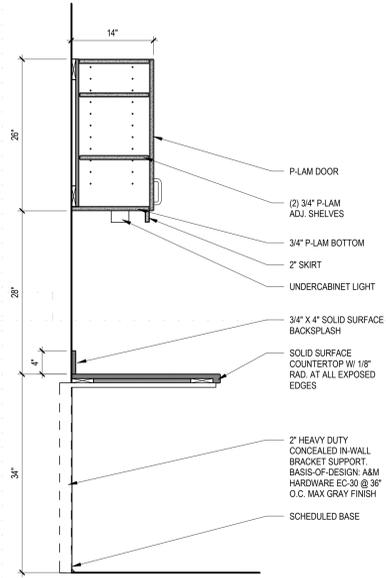


CASEWORK SECTIONS

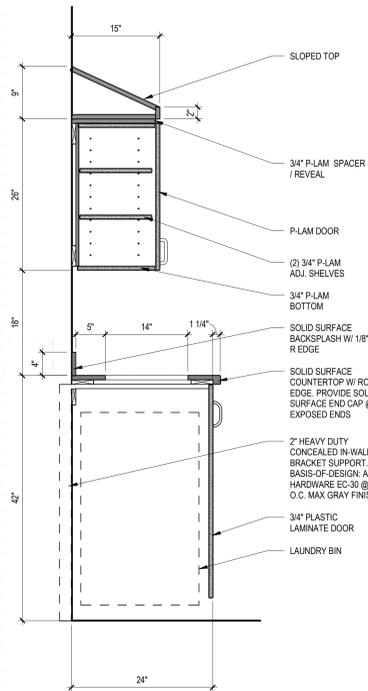
AI301



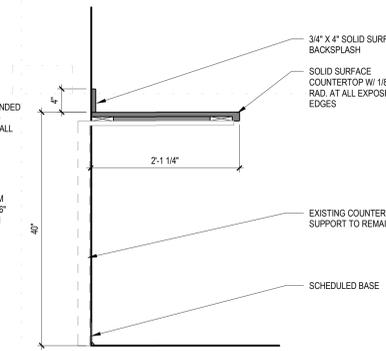
B5
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



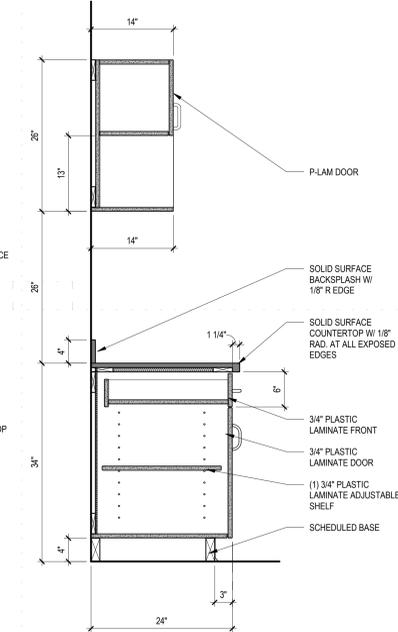
B4
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



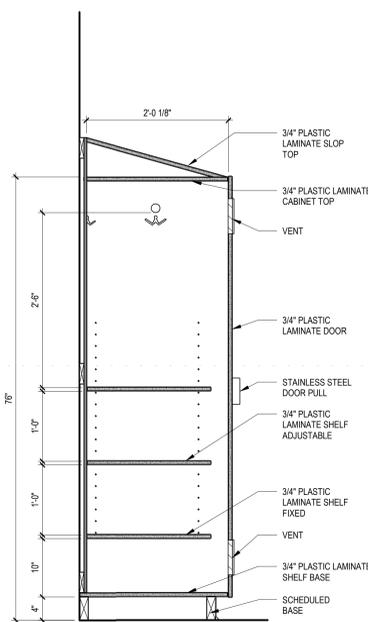
B3
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



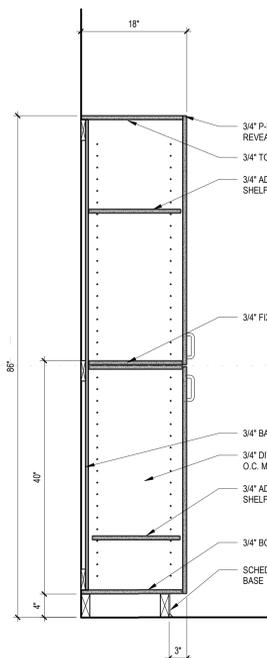
B2
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



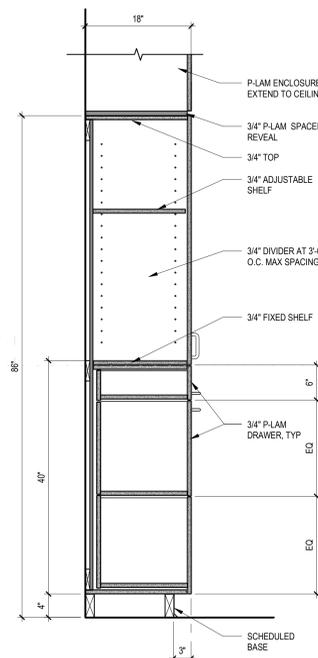
B1
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



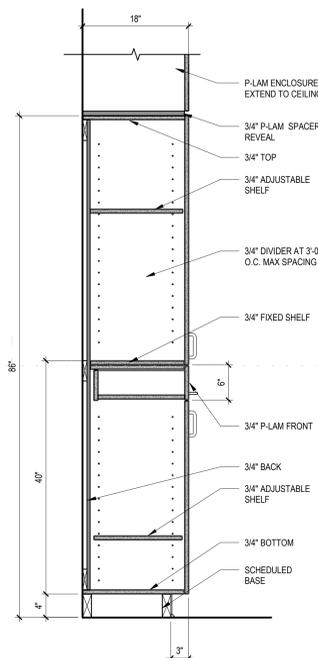
A6
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



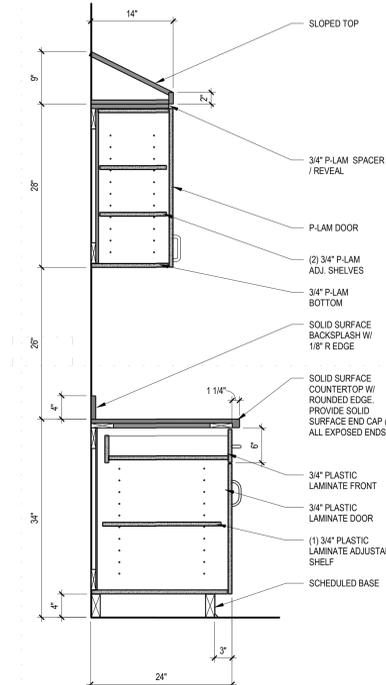
A5
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



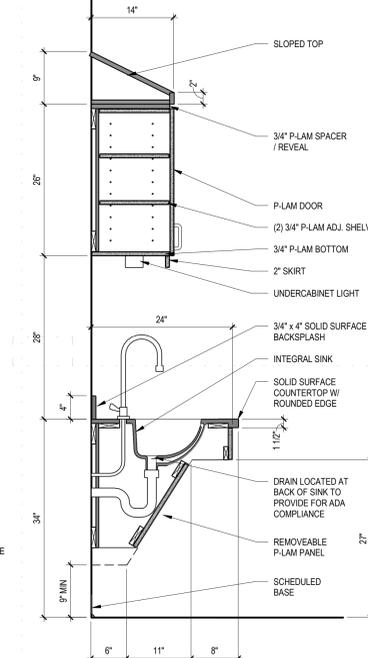
A4
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



A3
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"

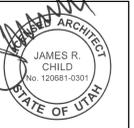


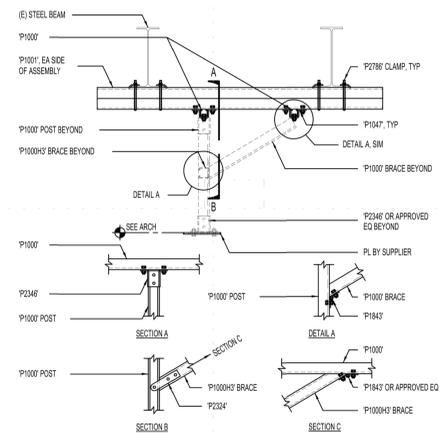
A2
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"



A1
AI302 CASEWORK SECTION
SCALE 1" = 1'-0"

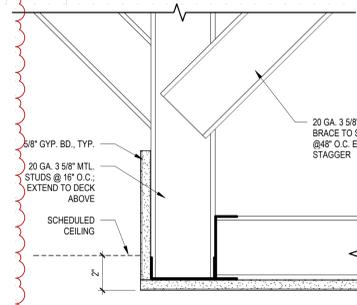
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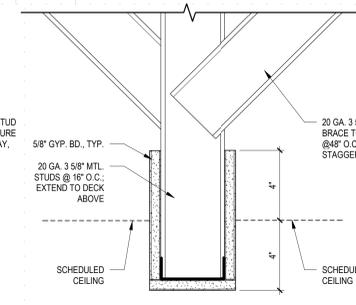


NOTE: COMPLY WITH MONITOR BOOM MFR. INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK, INCLUDING STEEL FABRICATION.

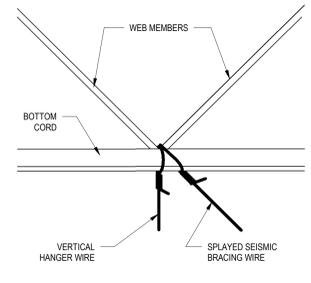
D4 MONITOR BOOM SUPPORT
SCALE 1 1/2" = 1'-0"



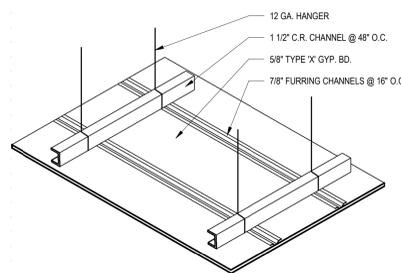
D2 CEILING TRANSITION DETAIL
SCALE 3" = 1'-0"



D1 CEILING TRANSITION DETAIL
SCALE 3" = 1'-0"

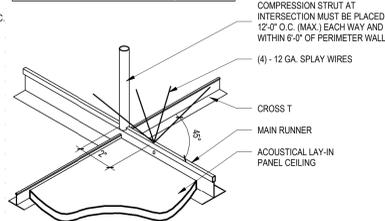


C5 SUSPENDED CEILING DETAIL
SCALE 3" = 1'-0"

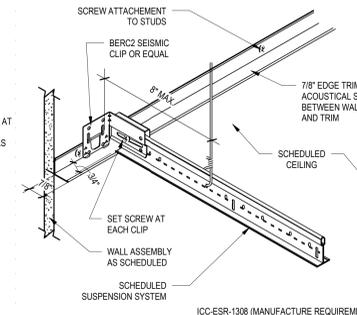


C4 SUSPENDED GYP. BD. CEILING SYSTEM
SCALE 3" = 1'-0"

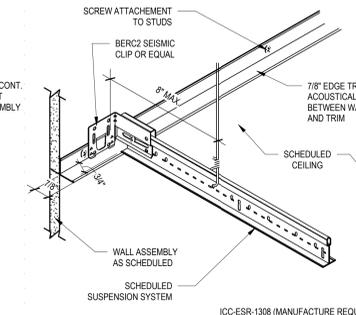
| STRUT SIZE | MAX. LENGTH |
|--|-------------|
| 3/4" DIAMETER CONDUIT (EMT) | 8'-0" |
| 1" DIAMETER CONDUIT (EMT) | 10'-0" |
| SINGLE 2 1/2" X 20 GA. METAL STUD (MINI = 0.18 IN) | 11'-6" |
| BACK TO BACK 2 1/2" X 20 GA. METAL STUDS SCREWED TOGETHER @ 24" O.C. | 15'-0" |



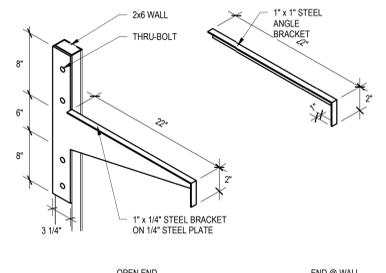
C3 TYPICAL COMPRESSION STRUT
SCALE 3" = 1'-0"



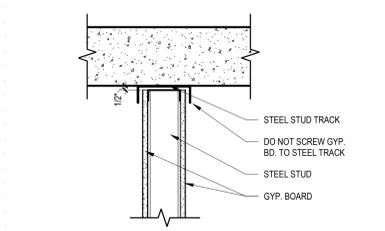
C2 RESTRAINED EDGE DETAIL
SCALE 3" = 1'-0"



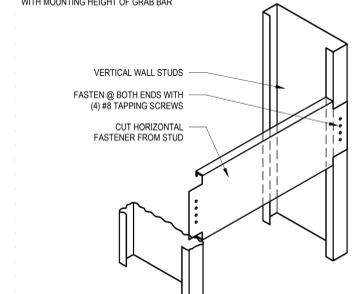
C1 UNRESTRAINED EDGE DETAIL
SCALE 3" = 1'-0"



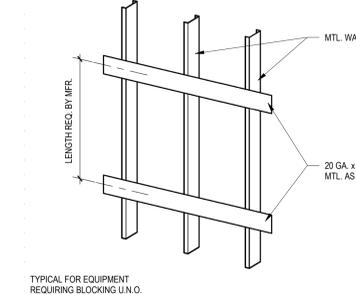
B4 MOUNTING BRACKET
SCALE 3" = 1'-0"



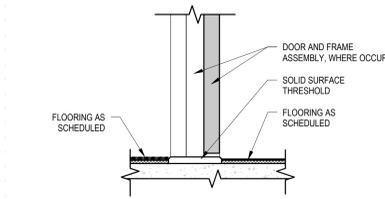
B3 DEFLECTION TRACK DETAIL
SCALE 1 1/2" = 1'-0"



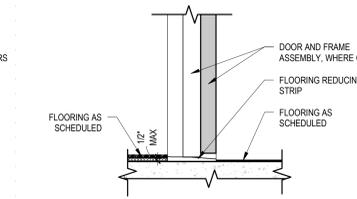
B2 GRAB BAR BLOCKING DETAIL
SCALE 1 1/2" = 1'-0"



B1 BLOCKING DETAIL
SCALE 1 1/2" = 1'-0"



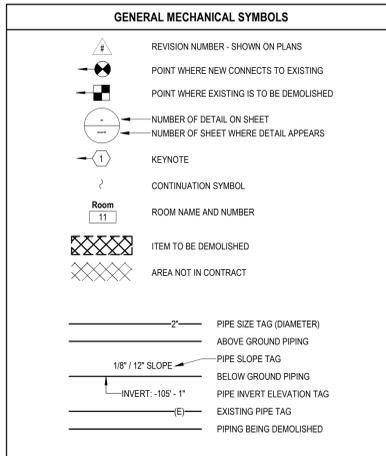
A3 THRESHOLD TRANSITION- CARPET TO LVLT
SCALE 1 1/2" = 1'-0"



A2 THRESHOLD TRANSITION- CARPET TO VINYL
SCALE 1 1/2" = 1'-0"

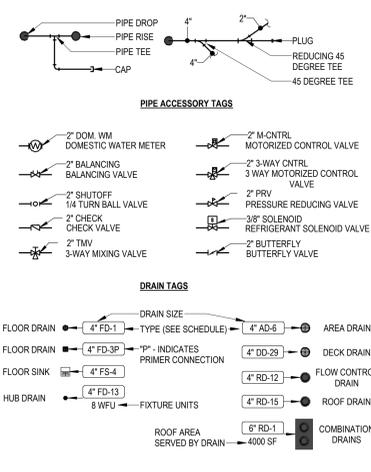
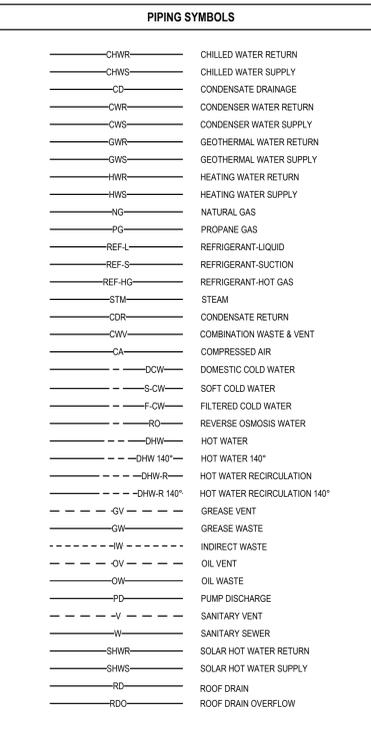
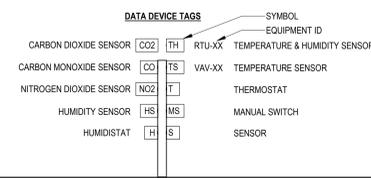
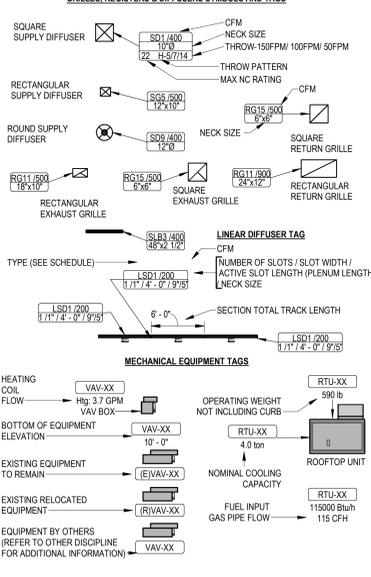
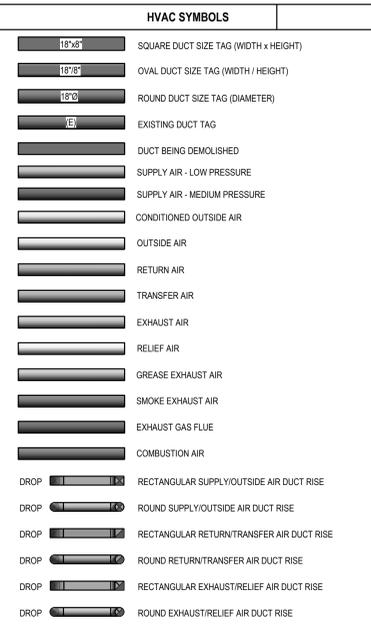
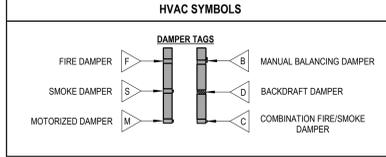
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| 22 | |





ABBREVIATIONS

| | | | |
|-------|------------------------------------|------|------------------------------|
| Ø | ROUND | LVR | LOUVER |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | M/A | MIXED AIR |
| AD | AREA DRAIN | MAX | MAXIMUM |
| ADD | ADDENDUM | MBH | ONE THOUSAND BTU PER HOUR |
| AFF | ABOVE FINISHED FLOOR | MCF | ONE THOUSAND CUBIC FEET |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | MD | MOTORIZED DAMPER |
| ALT | ALTERNATE | MECH | MECHANICAL |
| AP | ACCESS PANEL | MFR | MANUFACTURER |
| ARCH | ARCHITECT/ARCHITECTURAL | MIN | MINIMUM |
| BFF | BELOW FINISHED FLOOR | MISC | MISCELLANEOUS |
| BLW | BELOW | MTR | MOTOR |
| BTU | BRITISH THERMAL UNITS | MUA | MAKE-UP AIR |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NC | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| D | DEGREE | O | OXYGEN |
| DB | DRY BULB | OIA | OUTSIDE AIR |
| DCW | DOMESTIC COLD WATER | PD | PRESSURE DROP |
| DHW | DOMESTIC HOT WATER | PV | POST INDICATOR VALVE |
| DIA | DIAMETER | PLBG | PLUMBING |
| DN | DOWN | PRSS | PRESSURE |
| DN | DISTILLED WATER | PRV | PRESSURE REDUCING VALVE |
| EA | EACH | PSI | POUNDS PER SQUARE INCH |
| EAT | ENTERING AIR TEMPERATURE | PSIG | POUNDS PER SQUARE INCH GAUGE |
| ELEC | ELECTRICAL | PWR | POWER |
| EQUIP | EQUIPMENT | R | DUCT RISER |
| EWG | ELECTRIC WATER COOLER | RA | RETURN AIR |
| EWT | ENTERING WATER TEMPERATURE | RCP | RADIANT CEILING PANEL |
| EIA | EXHAUST AIR | RD | ROOF DRAIN |
| EXIST | EXISTING | ROO | ROOF DRAIN OVERFLOW |
| F | DEGREES FAHRENHEIT | REC | RECESSED |
| F | FLOOR CLEAN OUT | RED | REDUCER |
| FD | FLOOR DRAIN | RH | RELATIVE HUMIDITY |
| FDV | FIRE DAMPER | RLA | RELIEF AIR |
| FL | FLOOR | RM | ROOM |
| FDV | FIRE DEPARTMENT VALVE | RPM | REVOLUTIONS PER MINUTE |
| FL | FLOOR | RW | RAIN WATER |
| FO | FUEL OIL | SF | SQUARE FOOT |
| FOV | FUEL OIL VENT | SIA | SUPPLY AIR |
| FOR | FUEL OIL RETURN | SAN | SANITARY |
| FOS | FUEL OIL SUPPLY | SF | SQUARE FOOT |
| PFM | FEET PER MINUTE | SD | SMOKE DAMPER |
| FS | FLOOR SINK | SM | SURFACE MOUNT |
| FT | FOOT/FEET | SP | STANDPIPE |
| FTR | FIN TUBE RADIATION | SP | STATIC PRESSURE |
| GAL | GALLON | ST | STEAM |
| GC | GENERAL CONTRACTOR | T | THERMOSTAT |
| GPM | GALLONS PER MINUTE | TD | TRENCH DRAIN |
| GW | GREASE WASTE | TD | TEMPERATURE DROP |
| HB | HOSE BIB | TEMP | TEMPERATURE |
| HP | HORSE POWER | TRP | TYPICAL |
| HTG | HEATING | UG | UNDERGROUND |
| HTR | HEATER | VAC | VACUUM |
| HYD | HYDRANT | V | VENT |
| ID | INDIRECT | VAV | VARIABLE AIR VOLUME |
| IN | INCH | VENT | VENTILATION |
| INV | INVERT | VTR | VENT THROUGH ROOF |
| LB | POUND | W | WASTE |
| LBHR | POUNDS PER HOUR | WB | WET BULB |
| LAT | LEAVING AIR TEMPERATURE | WCO | WALL CLEAN OUT |
| LP | LOW PRESSURE | WH | WALL HYDRANT |
| LPG | LIQUEFIED PETROLEUM GAS | | |



NOTE
 THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

MECHANICAL SHEET INDEX

| | |
|-------|-------------------------------------|
| M000 | MECHANICAL TITLE SHEET |
| M001 | MECHANICAL GENERAL NOTES |
| M011 | LEVEL 1 THERMAL ZONE PLAN |
| MD101 | LEVEL 1 HVAC DEMO PLAN |
| MD111 | LEVEL 1 MECHANICAL PIPING DEMO PLAN |
| M101 | LEVEL 1 HVAC PLAN |
| M101A | LEVEL 1 HVAC PLAN ALTERNATE |
| M111 | LEVEL 1 MECHANICAL PIPING PLAN |
| M111A | LEVEL 1 MECHANICAL PIPING ALTERNATE |
| M501 | MECHANICAL DETAILS |
| M601 | MECHANICAL SCHEDULES |
| P000 | PLUMBING TITLE SHEET |
| PD100 | BASEMENT LEVEL PLUMBING DEMO PLAN |
| PD101 | LEVEL 1 PLUMBING DEMO PLAN |
| P100 | BASEMENT LEVEL PLUMBING PLAN |
| P101 | LEVEL 1 PLUMBING PLAN |
| PS01 | PLUMBING DETAILS |
| PS01 | PLUMBING SCHEDULES |
| MG101 | LEVEL 1 MEDICAL GAS PLAN |
| F001 | FIRE PROTECTION TITLE SHEET |
| FD101 | LEVEL 1 FIRE PROTECTION DEMO PLAN |
| F011 | LEVEL 1 FIRE PROTECTION PLAN |

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FIRE PROTECTION GENERAL NOTES

- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED. IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS, COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND REMOVE AND REPLACE ANY EXISTING ALLED XL PIPING.
- THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE PUMP DATA FOR HYDRAULIC CALCULATIONS.

PLUMBING GENERAL NOTES

- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
- PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 4" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
- CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
- EXISTING PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
- CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
- INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
- INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILING.
- MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
- COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
- COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
- ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILING.
- SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TOP/IN SINGLE FIXTURE.
- LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
- ALL PIPE SIZES SHALL REMAIN THE SAME SIZE AS SHOWN IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE ADOPTED PLUMBING CODE.

MEDICAL GAS GENERAL NOTES

- MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
- MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- PROVIDE FRANGIBLE LOCKS FOR ALL SERVICE VALVES.

MECHANICAL GENERAL NOTES

- COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
- SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
- PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
- INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE. SEE DETAILS, TYPICAL.
- DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
- PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
- PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE-OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
- PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
- WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
- AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE EQUIPMENT TAG TO MATCH SCHEDULE. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
- PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILING. PROVIDE MINIMUM 24" X 24".
- FLEX DUCT IS REQUIRED FOR ALL DIFFUSERS AND GRILLES INSTALLED IN LAY IN CEILING. FOR DIFFUSERS AND GRILLES IN HARD LID CEILING, THE DUCTWORK SHALL BE EXTENDED ALL THE WAY TO THE DIFFUSER AND SHALL BE CONNECTED WITH A HARD CONNECTION OR A FLEX DUCT CONNECTION WITH A MID RING AND LAY-ON DIFFUSER AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILING THE CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS DOOR.
- SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
- CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF. A MINIMUM OF 8" FROM LIGHT SWITCH, UNLESS OTHERWISE NOTED ON THE ARCHITECTS ELEVATIONS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
- REFER TO MECHANICAL PIPING OR ZONING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPE SHALL BE TYPE "L" COPPER UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
- PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT THAT IS FLOOR MOUNTED. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
- THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

MECHANICAL PIPING GENERAL NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- UNLESS OTHERWISE NOTED, ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- PROVIDE AIR VENT AT HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION AND TAGGED.
- PROVIDE ISOLATION VALVES AT EACH EXISTENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
- COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL PLANS OR SPECIFICATIONS.

PROJECT GENERAL NOTES

- THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
- REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SPACE AND WITHIN CLOSE PROXIMITY TO THE SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
- WHERE EXISTING FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
- COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILING, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
- THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
- FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM. AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
- LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
- COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 4" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANS IF REQUIRED UNDER PIPING.
- TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
- REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
- ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, GAS DEVICES, MAINTENANCE ACCESS, ETC.
- INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILING.
- LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
- IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- DETAILS REFERENCE ALL SHEETS.

NOTE

ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

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1
M011 LEVEL 1 THERMAL ZONE DIAGRAM
SCALE 1/4" = 1'-0"

KEYNOTES

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VBFA Project #: 21576

Intermountain Healthcare
Primary Children's Hospital - Ultrasound
100 MARIO CAPECCHI DRIVE
SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

CONSTRUCTION DOCUMENTS
10/11/2022

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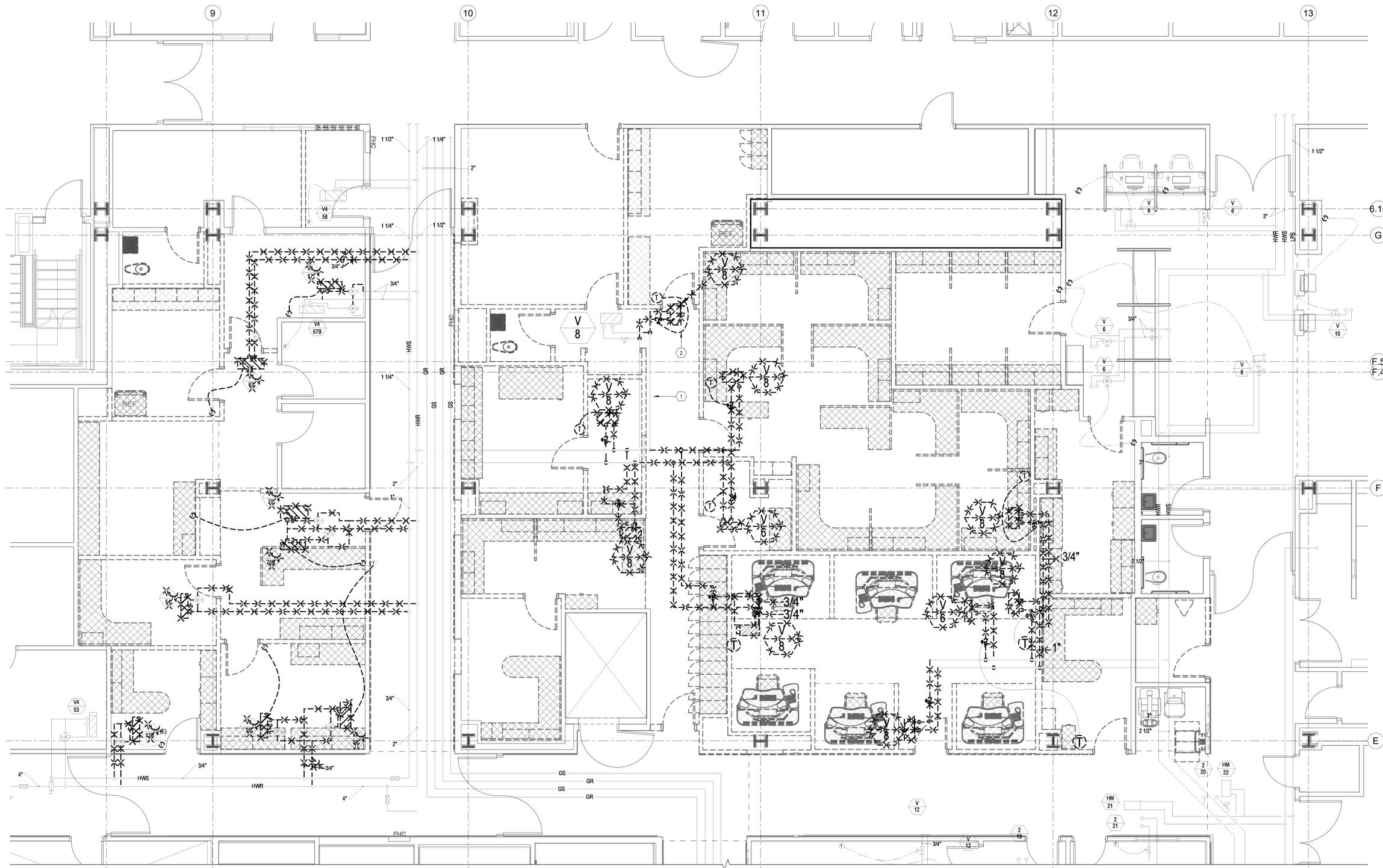


LEVEL 1
THERMAL ZONE
PLAN

M011

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

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KEYNOTES
 1. EXISTING ELEMENTS SHOWN DARK WITH "DASHED LINES" THROUGHOUT TO BE DEMOLISHED, TYPICAL.
 2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.

1 LEVEL 1 MECHANICAL PIPING PLAN
 MD111 SCALE 1/4" = 1'-0"



JRCA ARCHITECTS
 A Galloway Co.
 577 South 200 East
 SLC, Utah 84111
 O: (801) 533-3148
 GallowayUS.com
 jrcaesign.com

VBFA
 181 East 5600 South
 Murray, Utah 84107
 O: (801) 533-3148
 www.vbfa.com
 VBFA Project #: 21576

Intermountain Healthcare
Primary Children's Hospital - Ultrasound
 100 MARIO CAPECCHI DRIVE
 SALT LAKE CITY, UTAH 84113

PROJECT #: 00000

CONSTRUCTION DOCUMENTS
 10/11/2022

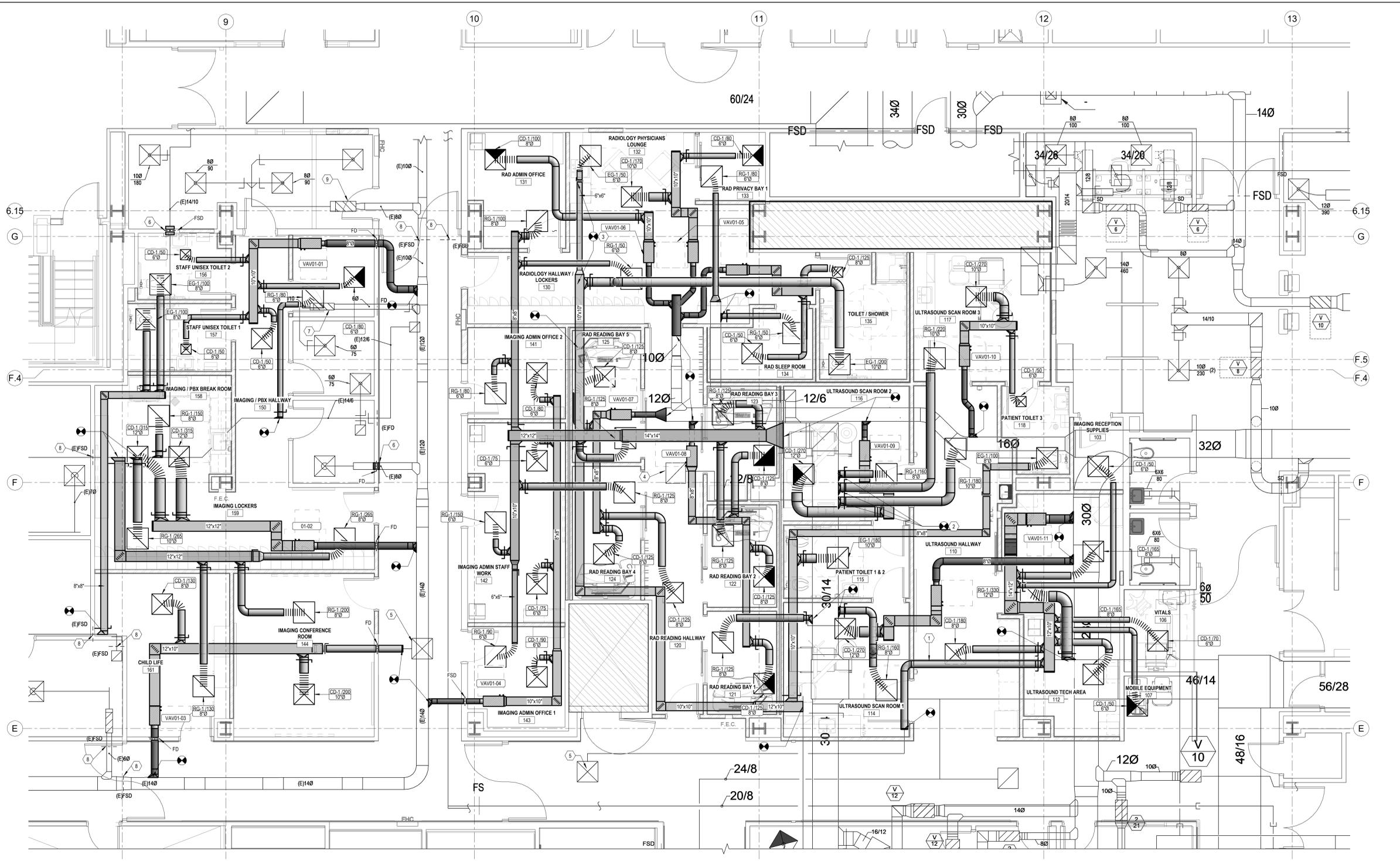
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LEVEL 1
 MECHANICAL
 PIPING DEMO
 PLAN

MD111

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt



1 LEVEL 1 HVAC PLAN
M101 SCALE: 1/4" = 1'-0"

- KEYNOTES**
- EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
 - CONNECT NEW DUCTWORK TO EXISTING AS SHOWN, TYPICAL.
 - INSTALL OFFSETS AS NECESSARY TO ACCOMMODATE EXISTING ELEMENTS.
 - BALANCE DIFFUSER TO 125 CFM.
 - EXISTING DIFFUSER IS TO BE REBALANCED TO 200 CFM.
 - PROVIDE AND INSTALL NEW FIRE DAMPER AND INSTALL IN EXISTING DUCT AS SHOWN.
 - EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACE WITH JCI COMPONENTS. EXISTING HOT WATER CONTROL VALVE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 120 CFM.
 - EXISTING COMBINATION FIRE/SMOKE DAMPER CONTAINS PNEUMATIC ACTUATOR. EXISTING PNEUMATIC ACTUATOR IS TO BE REMOVED AND REPLACED WITH DOC BELIMO ACTUATOR. MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL ACTUATOR. TIE TO BUILDING FIRE ALARM SYSTEM.
 - EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACE WITH JCI COMPONENTS. EXISTING HOT WATER CONTROL VALVE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 270 CFM.

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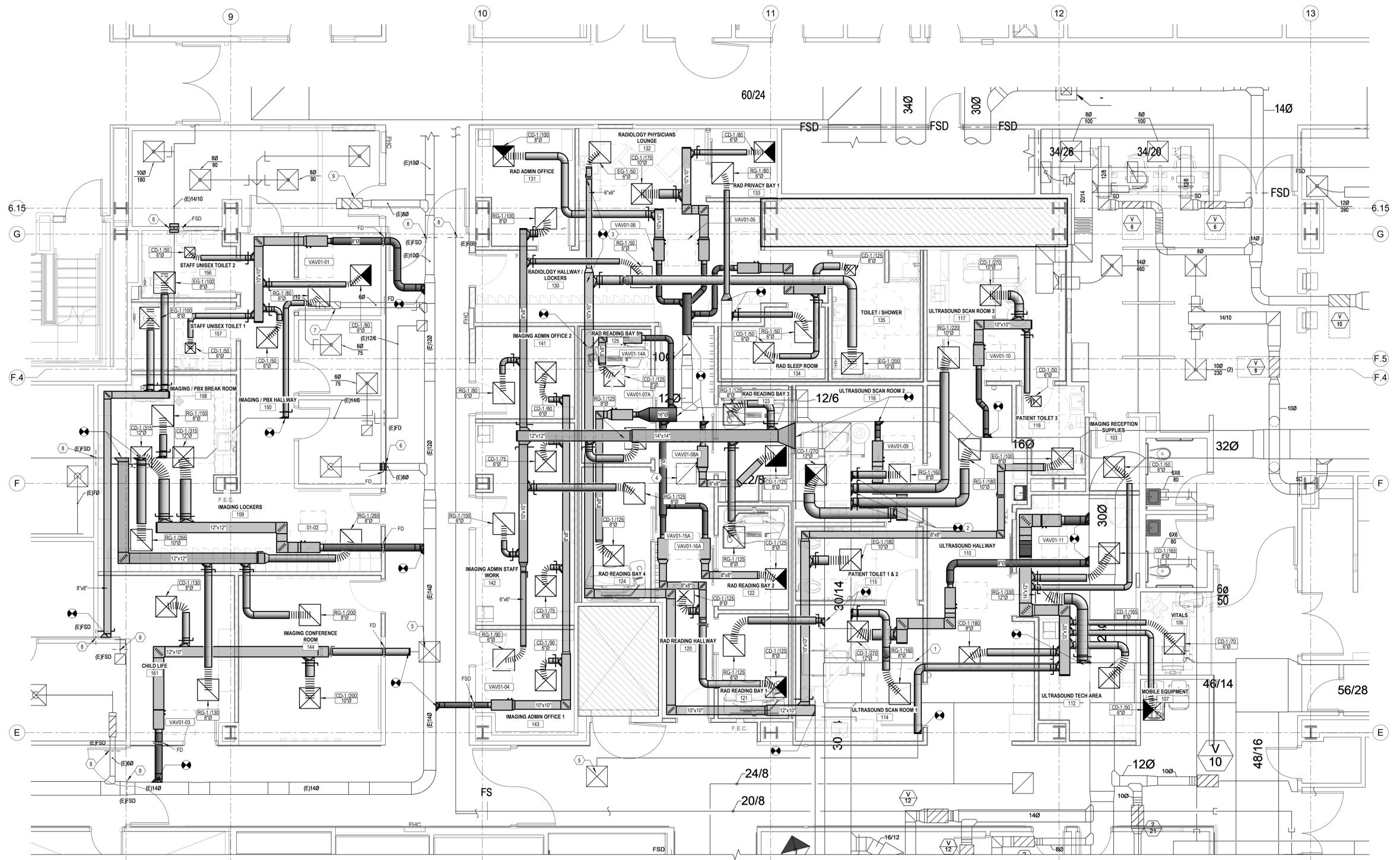


LEVEL 1 HVAC PLAN

M101

BIM 360/11HC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

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1 LEVEL 1 HVAC PLAN
M101A
1/4" = 1'-0"

NOTE: INDIVIDUAL VAV BOXES
HAVE BEEN ADDED TO EACH
READING BAY AS AN ADD
ALTERNATE. BASE AND
ALTERNATE PRICING IS TO BE
PROVIDED TO OWNER.

- KEYNOTES**
- EXISTING ELEMENTS SHOWN LIGHT. TYPICAL.
 - CONNECT NEW DUCTWORK TO EXISTING AS SHOWN. TYPICAL EXISTING ELEMENTS.
 - INSTALL OFFSETS AS NECESSARY TO ACCOMMODATE EXISTING ELEMENTS.
 - BALANCE DIFFUSER TO 125 CFM.
 - EXISTING DIFFUSER IS TO BE REBALANCED TO 200 CFM.
 - PROVIDE AND INSTALL NEW FIRE DAMPER AND INSTALL IN EXISTING DUCT AS SHOWN.
 - EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACED WITH JCI COMPONENTS. EXISTING HOT WATER CONTROL VALVE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 120 CFM.
 - EXISTING COMBINATION FIRE SMOKE DAMPER CONTAINS PNEUMATIC ACTUATOR. EXISTING PNEUMATIC ACTUATOR IS TO BE REMOVED AND REPLACED WITH DDC BELIMO ACTUATOR. MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL ACTUATOR TIE TO BUILDING FIRE ALARM SYSTEM.
 - EXISTING VAV BOX IS CURRENTLY ON SIEMENS CONTROL SYSTEM. VAV BOX IS TO BE CONVERTED TO THE JOHNSON CONTROL SYSTEM. ALL VAV BOX SENSORS, ACTUATORS AND CONTROL UNITS ARE TO BE REMOVED AND REPLACED WITH JCI COMPONENTS. EXISTING HOT WATER CONTROL VALVE IS TO BE REMOVED AND REPLACED. HOT WATER IS TO BE REBALANCED TO 1 GPM. AIRFLOW PARAMETERS ARE TO BE RESET TO A CONSTANT VOLUME OF 270 CFM.

JRCA
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CONSTRUCTION DOCUMENTS
10/11/2022

| DATE | REVISION |
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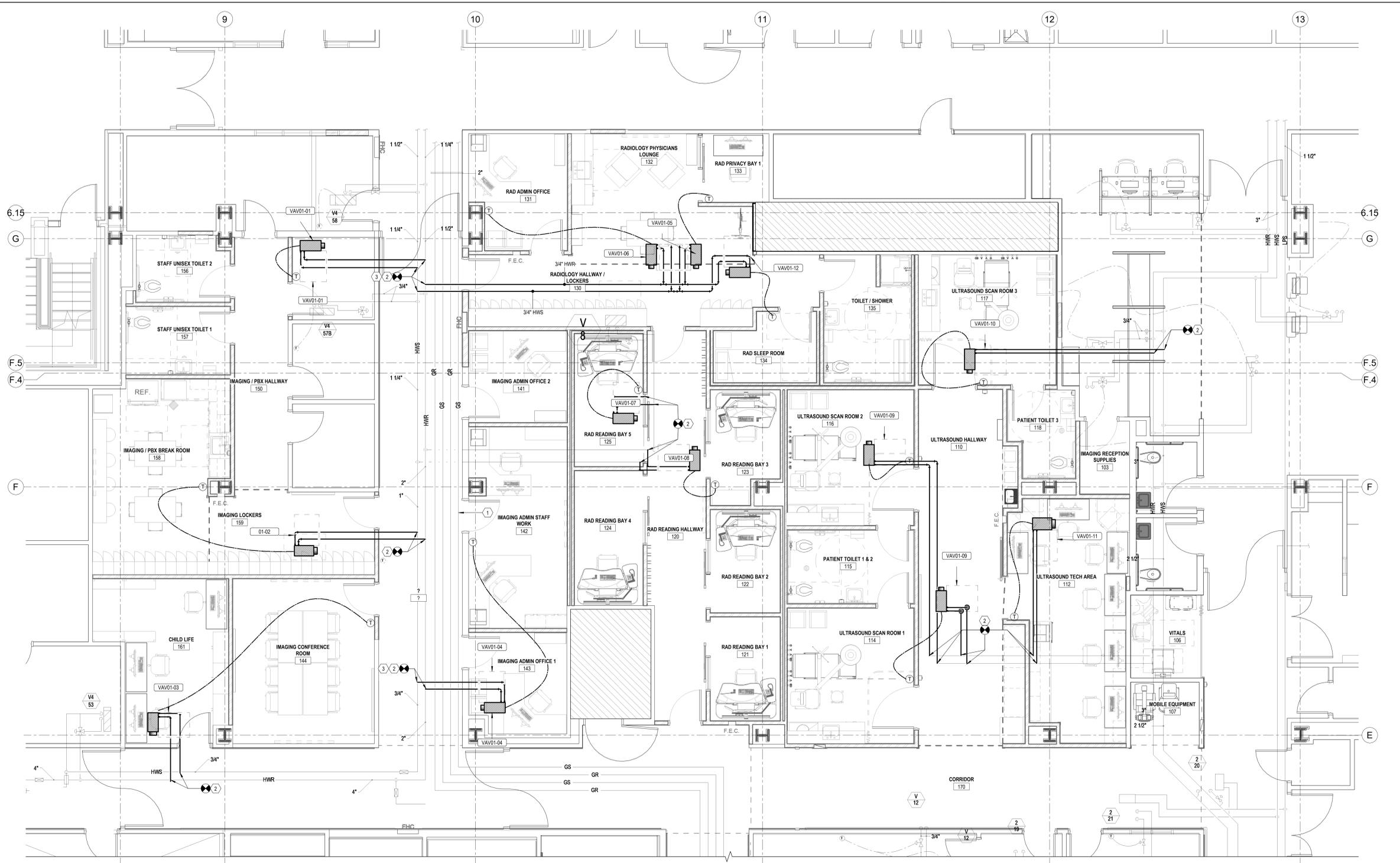


LEVEL 1 HVAC
PLAN
ALTERNATE

M101A

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

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KEYNOTES

- EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
- CONNECT NEW MECHANICAL PIPING FROM VAV BOXES TO EXISTING LINES AS SHOWN.
- INSTALL OFFSETS AS NECESSARY TO ACCOMMODATE EXISTING ELEMENTS.

1 LEVEL 1 MECHANICAL PIPING PLAN
M111 SCALE 1/4" = 1'-0"



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PROJECT #: 00000

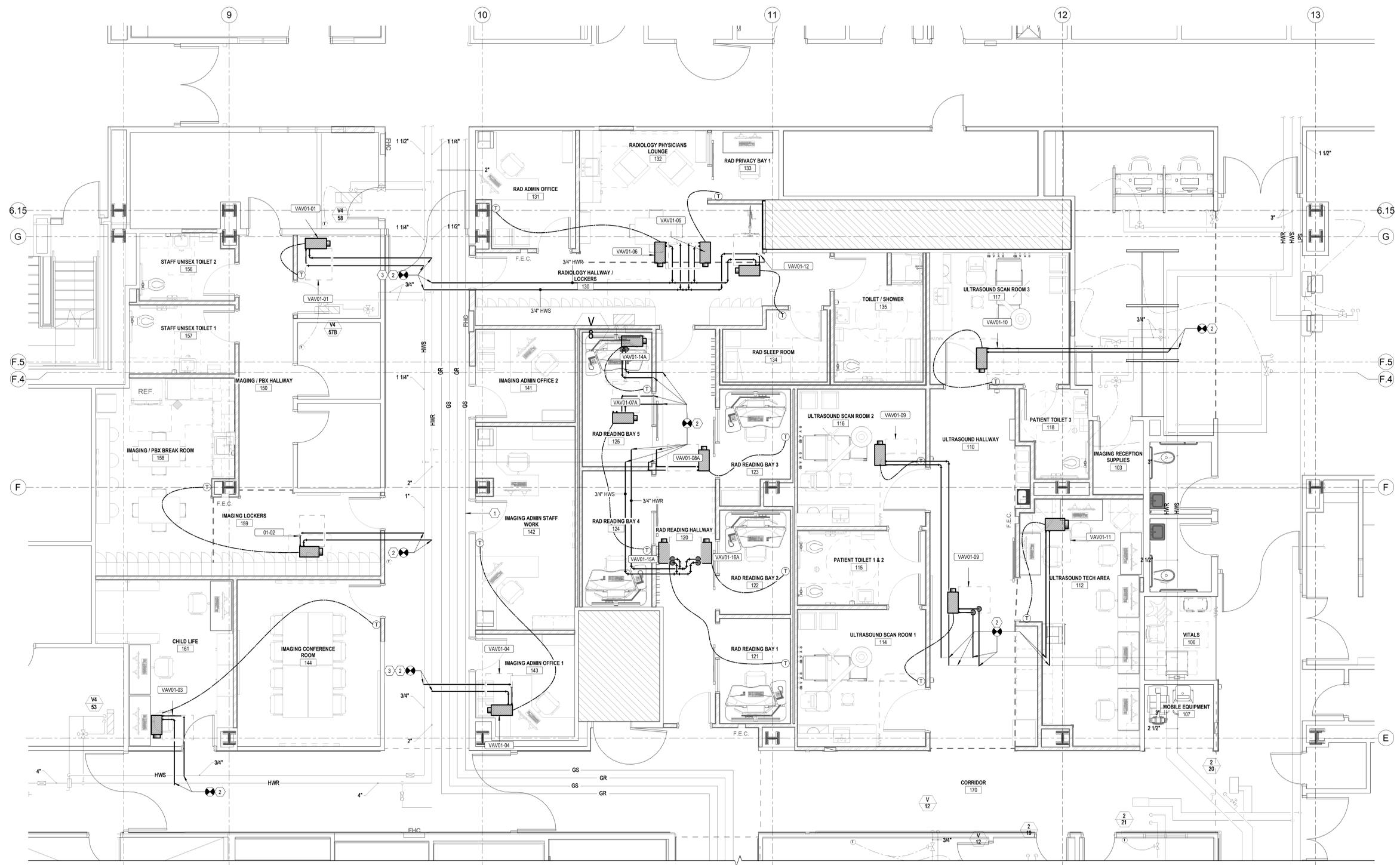
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| 10/11/2022 | |
| DATE | REVISION |
| | |



LEVEL 1 MECHANICAL PIPING PLAN

M111

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound MEP_21.rvt



NOTE: INDIVIDUAL VAV BOXES HAVE BEEN ADDED TO EACH READING BAY AS AN ADD ALTERNATE. BASE AND ALTERNATE PRICING IS TO BE PROVIDED TO OWNER.

KEYNOTES
1. EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
2. CONNECT NEW MECHANICAL PIPING FROM VAV BOXES TO EXISTING LINES AS SHOWN.
3. INSTALL OFFSETS AS NECESSARY TO ACCOMMODATE EXISTING ELEMENTS.

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PROJECT #: 00000

CONSTRUCTION DOCUMENTS
10/11/2022

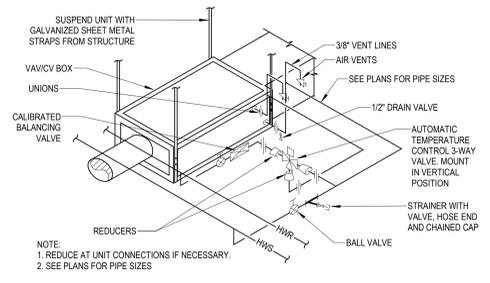
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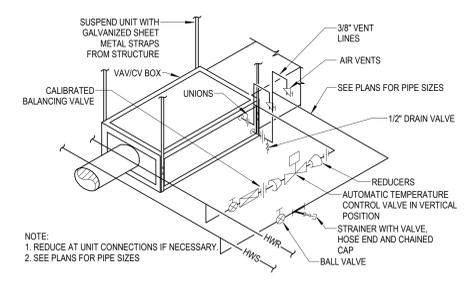
LEVEL 1
MECHANICAL
PIPING
ALTERNATE

M111A

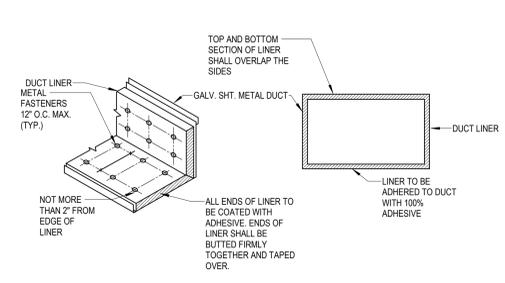
1 LEVEL 1 MECHANICAL PIPING PLAN
M111A 1/4" = 1'-0"



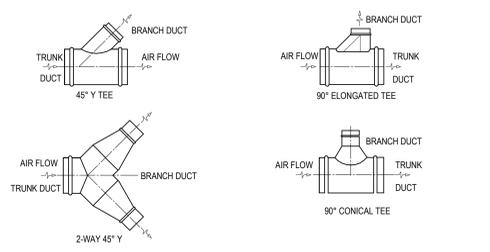
1 VAV/CV TERMINAL UNIT WITH 3-WAY CONTROL VALVE DETAIL
M501 12" = 1'-0"



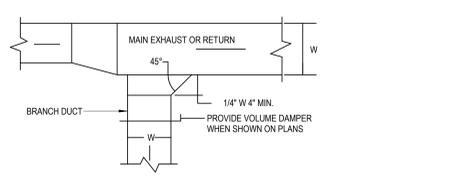
2 VAV/CV TERMINAL UNIT WITH 2-WAY CONTROL VALVE DETAIL
M501 12" = 1'-0"



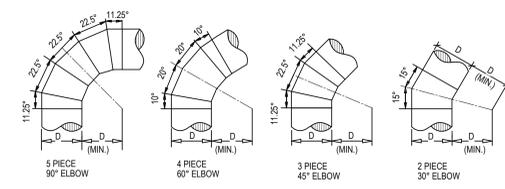
3 RECTANGULAR DUCT LINER DETAIL
M501 12" = 1'-0"



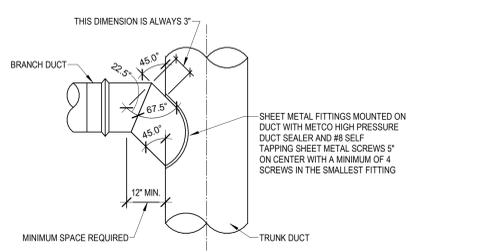
4 ROUND DUCT BRANCH TAKE-OFF DETAIL
M501 12" = 1'-0"



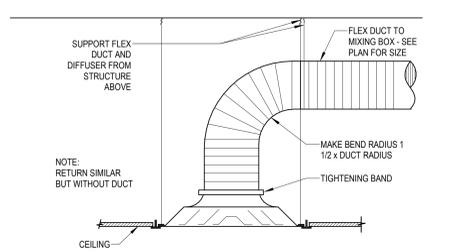
5 EXHAUST AND/OR RETURN BRANCH DUCT DETAIL
M501 12" = 1'-0"



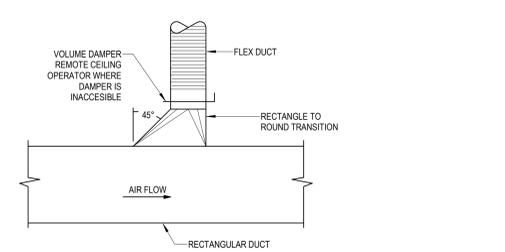
6 ROUND DUCT ELBOWS DETAIL
M501 12" = 1'-0"



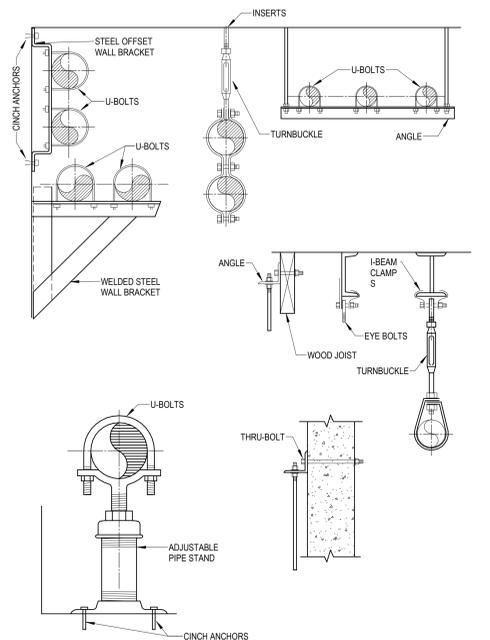
7 CONSTRUCTION OF 45-90 DEGREE TEE FITTING AND MOUNTING METHOD
M501 12" = 1'-0"



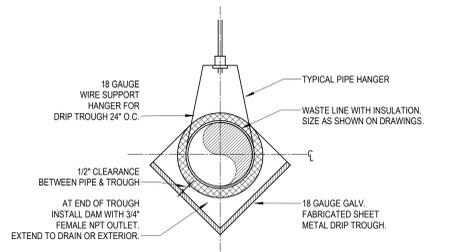
8 DIFFUSER CONNECTION DETAIL
M501 12" = 1'-0"



9 FLEX DUCT WITH HIGH EFFICIENCY FITTING DETAIL
M501 12" = 1'-0"



10 TYPICAL PIPE SUPPORT DETAIL
M501 12" = 1'-0"



11 CROSS SECTIONAL DETAIL OF DRIP TROUGH
M501 12" = 1'-0"

| CONSTRUCTION DOCUMENTS | |
|------------------------|----------|
| 10/11/2022 | |
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VAV BOX SCHEDULE

| Mechanical Equipment Number | Manufacturer | Inlet Size | Cooling Airflow | Heating Airflow | Min Airflow | Entering Air Temperature | Leaving Air Temperature | S.P. Loss at Max CFM | Flow Rate | Entering Water Temperature | Leaving Water Temperature | Working Fluid | Head Loss Feet | Min. Number of Rows/Fins Per Inch | Valve Type | Branch Diameter | NOTE |
|-----------------------------|--------------|------------|-----------------|-----------------|-------------|--------------------------|-------------------------|----------------------|-----------|----------------------------|---------------------------|---------------|----------------|-----------------------------------|-------------|-----------------|----------|
| 01-01 | TITUS-ESV-3 | 0'-6" | 230 CFM | 230 CFM | 80 CFM | 52.0 °F | 107.5 °F | 0.046 | 1.0 GPM | 180.0 °F | 156.5 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-02 | TITUS-ESV-3 | 0'-8" | 630 CFM | 420 CFM | 145 CFM | 55.0 °F | 101.5 °F | 0.347 | 1.5 GPM | 180.0 °F | 156.0 °F | WATER | 0.4775 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-03 | TITUS-ESV-3 | 0'-8" | 530 CFM | 420 CFM | 145 CFM | 52.0 °F | 99.6 °F | 0.257 | 1.5 GPM | 180.0 °F | 155.4 °F | WATER | 0.4775 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-04 | TITUS-ESV-3 | 0'-6" | 320 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.082 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-05 | TITUS-ESV-3 | 0'-6" | 100 CFM | 100 CFM | 80 CFM | 52.0 °F | 132.5 °F | 0.01 | 1.0 GPM | 180.0 °F | 166.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-06 | TITUS-ESV-3 | 0'-6" | 250 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.05 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-07 | TITUS-ESV-3 | 0'-6" | 375 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.11 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-08 | TITUS-ESV-3 | 0'-6" | 375 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.11 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-09 | TITUS-ESV-3 | 0'-6" | 270 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.058 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-10 | TITUS-ESV-3 | 0'-6" | 320 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.082 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-11 | TITUS-ESV-3 | 0'-10" | 880 CFM | 660 CFM | 230 CFM | 55.0 °F | 100.6 °F | 0.318 | 2.0 GPM | 180.0 °F | 152.2 °F | WATER | 0.47 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-12 | TITUS-ESV-3 | 0'-6" | 175 CFM | 175 CFM | 80 CFM | 52.0 °F | 115.3 °F | 0.03 | 1.0 GPM | 180.0 °F | 159.6 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-13 | TITUS-ESV-3 | 0'-6" | 270 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.058 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |

1. MAXIMUM DISCHARGE NC AT BOX DIFFERENTIAL PRESSURE BASED ON ARI STANDARD 889-89
2. COOL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (50% OF MAXIMUM COOLING CFM)
3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY)
4. MAXIMUM STATIC PRESSURE DROP PERMISSIBLE ACROSS BOX AND COL AT MAXIMUM COOLING CFM
5. PRESSURE INDEPENDENT TYPE BOX

VAV BOX SCHEDULE ALTERNATE

| Mechanical Equipment Number | Manufacturer | Inlet Size | Cooling Airflow | Heating Airflow | Min Airflow | Entering Air Temperature | Leaving Air Temperature | S.P. Loss at Max CFM | Flow Rate | Entering Water Temperature | Leaving Water Temperature | Working Fluid | Head Loss Feet | Min. Number of Rows/Fins Per Inch | Valve Type | Branch Diameter | NOTE |
|-----------------------------|--------------|------------|-----------------|-----------------|-------------|--------------------------|-------------------------|----------------------|-----------|----------------------------|---------------------------|---------------|----------------|-----------------------------------|-------------|-----------------|----------|
| 01-01 | TITUS-ESV-3 | 0'-6" | 230 CFM | 230 CFM | 80 CFM | 52.0 °F | 107.5 °F | 0.046 | 1.0 GPM | 180.0 °F | 156.5 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-02 | TITUS-ESV-3 | 0'-8" | 630 CFM | 420 CFM | 145 CFM | 55.0 °F | 101.5 °F | 0.347 | 1.5 GPM | 180.0 °F | 156.0 °F | WATER | 0.4775 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-03 | TITUS-ESV-3 | 0'-8" | 530 CFM | 420 CFM | 145 CFM | 52.0 °F | 99.6 °F | 0.257 | 1.5 GPM | 180.0 °F | 155.4 °F | WATER | 0.4775 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-04 | TITUS-ESV-3 | 0'-6" | 320 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.082 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-05 | TITUS-ESV-3 | 0'-6" | 100 CFM | 100 CFM | 80 CFM | 52.0 °F | 132.5 °F | 0.01 | 1.0 GPM | 180.0 °F | 166.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-06 | TITUS-ESV-3 | 0'-6" | 250 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.05 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-07A | TITUS-ESV-3 | 0'-6" | 125 CFM | 125 CFM | 80 CFM | 52.0 °F | 125.2 °F | 0.015 | 1.0 GPM | 180.0 °F | 163.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-08A | TITUS-ESV-3 | 0'-6" | 125 CFM | 125 CFM | 80 CFM | 52.0 °F | 125.2 °F | 0.015 | 1.0 GPM | 180.0 °F | 163.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-09 | TITUS-ESV-3 | 0'-6" | 270 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.058 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-10 | TITUS-ESV-3 | 0'-6" | 320 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.082 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-11 | TITUS-ESV-3 | 0'-10" | 880 CFM | 660 CFM | 230 CFM | 55.0 °F | 100.6 °F | 0.318 | 2.0 GPM | 180.0 °F | 152.2 °F | WATER | 0.47 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-12 | TITUS-ESV-3 | 0'-6" | 175 CFM | 175 CFM | 80 CFM | 52.0 °F | 115.3 °F | 0.03 | 1.0 GPM | 180.0 °F | 159.6 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-13 | TITUS-ESV-3 | 0'-6" | 270 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.058 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-14A | TITUS-ESV-3 | 0'-6" | 125 CFM | 125 CFM | 80 CFM | 52.0 °F | 125.2 °F | 0.015 | 1.0 GPM | 180.0 °F | 163.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-15A | TITUS-ESV-3 | 0'-6" | 250 CFM | 240 CFM | 80 CFM | 52.0 °F | 106.3 °F | 0.05 | 1.0 GPM | 180.0 °F | 155.9 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |
| 01-16A | TITUS-ESV-3 | 0'-6" | 125 CFM | 125 CFM | 80 CFM | 52.0 °F | 125.2 °F | 0.015 | 1.0 GPM | 180.0 °F | 163.1 °F | WATER | 0.12 | 2/10 | 2 Way Valve | 3/4" | 12.3,4,5 |

1. MAXIMUM DISCHARGE NC AT BOX DIFFERENTIAL PRESSURE BASED ON ARI STANDARD 889-89
2. COOL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (50% OF MAXIMUM COOLING CFM)
3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY)
4. MAXIMUM STATIC PRESSURE DROP PERMISSIBLE ACROSS BOX AND COL AT MAXIMUM COOLING CFM
5. PRESSURE INDEPENDENT TYPE BOX

DIFFUSER, REGISTER, AND GRILLES

| Diffuser Callout | Manufacturer | Model | Max NC | Diffuser Description |
|------------------|--------------|-------|--------|--|
| CD-1 | PRICE | SPD | 25 | SQUARE PLAQUE FACE CEILING DIFFUSERS; REMOVABLE FACE, FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE WITH LAY-IN PLASTER FRAME. FINISH AS SELECTED BY ARCHITECT. |
| EG-1 | PRICE | PDDR | 25 | PERFORATED GRILLE; FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 24"X12" TO FIT CEILING SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. PROVIDE ROUND/RECTANGULAR NECK SIZE AS INDICATED ON DRAWINGS. FINISH AS SELECTED BY ARCHITECT. |
| RG-1 | PRICE | PDDR | 25 | PERFORATED GRILLE; FRAME SHALL BE FOR LAY-IN MOUNTING OR SURFACE MOUNT AS REQUIRED BY TYPE. LAY-IN FRAMES SHALL BE 24"X24" OR 24"X12" TO FIT CEILING SPACE AVAILABLE. HARD LID CEILING TO BE 24"X24" OR 12"X12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. PROVIDE ROUND/RECTANGULAR NECK SIZE AS INDICATED ON DRAWINGS. FINISH AS SELECTED BY ARCHITECT. |

PROJECT #: 00000

| CONSTRUCTION DOCUMENTS | |
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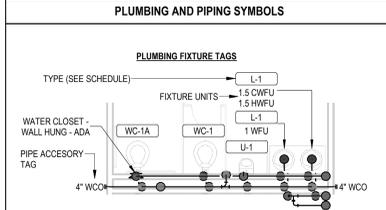


MECHANICAL SCHEDULES

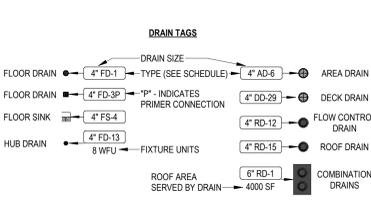
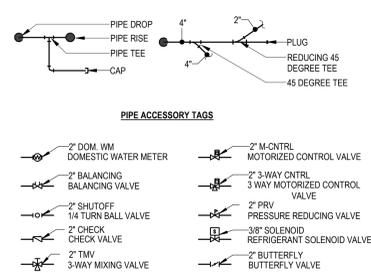
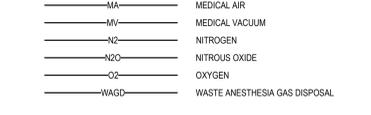
M601

| GENERAL MECHANICAL SYMBOLS | |
|----------------------------|---|
| | REVISION NUMBER - SHOWN ON PLANS |
| | POINT WHERE NEW CONNECTS TO EXISTING |
| | POINT WHERE EXISTING IS TO BE DEMOLISHED |
| | NUMBER OF DETAIL ON SHEET |
| | NUMBER OF SHEET WHERE DETAIL APPEARS |
| | KEYNOTE |
| | CONTINUATION SYMBOL |
| | ROOM NAME AND NUMBER |
| | ITEM TO BE DEMOLISHED |
| | AREA NOT IN CONTRACT |
| | PIPE SIZE TAG (DIAMETER) ABOVE GROUND PIPING |
| | PIPE SLOPE TAG BELOW GROUND PIPING |
| | PIPE INVERT ELEVATION TAG |
| | EXISTING PIPE TAG |
| | PIPING BEING DEMOLISHED |

| ABBREVIATIONS | | | |
|---------------|------------------------------------|-------|------------------------------|
| Ø | ROUND | LVR | LOW VOLT |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | MA | MIXED AIR |
| AD | AREA DRAIN | MAX | MAXIMUM |
| ADD | ADDENDUM | MBH | ONE THOUSAND BTU PER HOUR |
| AFF | ABOVE FINISHED FLOOR | MCF | ONE THOUSAND CUBIC FEET |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | MD | MOTORIZED DAMPER |
| ALT | ALTERNATE | MECH | MECHANICAL |
| AP | ACCESS PANEL | MFR | MANUFACTURER |
| ARCH | ARCHITECT/ARCHITECTURAL | MIN | MINIMUM |
| BTF | BELOW FINISHED FLOOR | MISC | MISCELLANEOUS |
| BLW | BELOW | MTR | MOTOR |
| BTU | BRITISH THERMAL UNITS | MUA | MAKE-UP AIR |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NC | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| CW | COLD WATER | O | OXYGEN |
| D | DEGREE | O/A | OUTSIDE AIR |
| DB | DRY BULB | ORD | OVERFLOW ROOF DRAIN |
| DA | DIAMETER | PD | PRESSURE DROP |
| DN | DOWN | PIV | POST INDICATOR VALVE |
| DW | DISTILLED WATER | PLBG | PLUMBING |
| EA | EACH | PRESS | PRESSURE |
| EAT | ENTERING AIR TEMPERATURE | PRV | PRESSURE REDUCING VALVE |
| ELEC | ELECTRICAL | PSI | POUNDS PER SQUARE INCH |
| EQUIP | EQUIPMENT | PSIG | POUNDS PER SQUARE INCH GAUGE |
| ENC | ELECTRIC WATER COOLER | PWR | POWER |
| EWT | ENTERING WATER TEMPERATURE | R | DUCT RISER |
| E/A | EXHAUST AIR | R/A | RETURN AIR |
| EXIST | EXISTING | RCF | RADIANT CEILING PANEL |
| F | DEGREES FAHRENHEIT | RD | ROOF DRAIN |
| FCO | FLOOR CLEAN OUT | REC | RECESSED |
| FD | FLOOR DRAIN | RED | REDUCER |
| FDV | FIRE DEPARTMENT VALVE | RH | RELATIVE HUMIDITY |
| FL | FLOOR | R/A | RELIEF AIR |
| FO | FUEL OIL | RM | ROOM |
| FOV | FUEL OIL VENT | RPM | REVOLUTIONS PER MINUTE |
| FOR | FUEL OIL RETURN | RW | RAIN WATER |
| FOS | FUEL OIL SUPPLY | SP | SQUARE FOOT |
| FPM | FEET PER MINUTE | S/A | SUPPLY AIR |
| FS | FLOOR SINK | SAN | SANITARY |
| FT | FOOT/FEET | SP | SQUARE FOOT |
| FTR | FIN TUBE RADIATION | SD | SMOKE DAMPER |
| GAL | GALLON | SM | SURFACE MOUNT |
| GC | GENERAL CONTRACTOR | SP | STANDPIPE |
| GPM | GALLONS PER MINUTE | SP | STATIC PRESSURE |
| GW | GREASE WASTE | STM | STEAM |
| HB | HORSE BIB | T | THERMOSTAT |
| HP | HORSE POWER | TD | TEMPERATURE DROP |
| HTG | HEATING | TEMP | TEMPERATURE |
| HTR | HEATER | TP | TYPICAL |
| HW | HOT WATER | UG | UNDERGROUND |
| HYD | HYDRANT | VAC | VACUUM |
| ID | INDIRECT | V | VENT |
| IN | INCH | VAV | VARIABLE AIR VOLUME |
| INV | INVERT | VENT | VENTILATION |
| LB | POUND | VTR | VENT THROUGH ROOF |
| LBHR | POUNDS PER HOUR | W | WASTE |
| LAT | LEAVING AIR TEMPERATURE | WB | WET BULB |
| LP | LOW PRESSURE | WCO | WALL CLEAN OUT |
| LPG | LIQUEFIED PETROLEUM GAS | WH | WALL HYDRANT |



| PLUMBING AND PIPING SYMBOLS | |
|-----------------------------|-------------------------------|
| | CHILLED WATER RETURN |
| | CHILLED WATER SUPPLY |
| | CONDENSATE DRAINAGE |
| | CONDENSER WATER RETURN |
| | CONDENSER WATER SUPPLY |
| | GEO THERMAL WATER RETURN |
| | GEO THERMAL WATER SUPPLY |
| | HEATING WATER RETURN |
| | HEATING WATER SUPPLY |
| | NATURAL GAS |
| | PROPANE GAS |
| | REFRIGERANT LIQUID |
| | REFRIGERANT SUCTION |
| | REFRIGERANT HOT GAS |
| | STEAM |
| | CONDENSATE RETURN |
| | COMBINATION WASTE & VENT |
| | COMPRESSED AIR |
| | DOMESTIC COLD WATER |
| | HARD COLD WATER |
| | SOFT COLD WATER |
| | FILTERED COLD WATER |
| | REVERSE OSMOSIS WATER |
| | HOT WATER |
| | HOT WATER 140° |
| | HOT WATER RECIRCULATION |
| | HOT WATER RECIRCULATION 140° |
| | GREASE VENT |
| | GREASE WASTE |
| | INDIRECT WASTE |
| | OIL VENT |
| | OIL WASTE |
| | PUMP DISCHARGE |
| | SANITARY VENT |
| | SANITARY WASTE |
| | SOLAR HOT WATER RETURN |
| | SOLAR HOT WATER SUPPLY |
| | ROOF DRAINAGE |
| | ROOF DRAIN OVERFLOW |
| | CARBON DIOXIDE |
| | HELIUM |
| | INSTRUMENT AIR |
| | MEDICAL AIR |
| | MEDICAL VACUUM |
| | NITROGEN |
| | NITROUS OXIDE |
| | OXYGEN |
| | WASTE ANESTHESIA GAS DISPOSAL |



- PLUMBING GENERAL NOTES**
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
 - PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
 - NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
 - CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
 - EXISTING PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
 - REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
 - CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
 - INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
 - INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILING.
 - MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
 - COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
 - COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES. TYPICAL.
 - COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL TYPICAL.
 - ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILING.
 - SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
 - LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEMS ARE LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
 - ALL PIPE SIZES SHALL REMAIN THE SAME SIZE AS SHOWN IN THE DIRECTION OF FLOW, UNLESS NOTED OTHERWISE.
 - INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE ADOPTED PLUMBING CODE.

- PROJECT GENERAL NOTES**
- THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
 - REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
 - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SPACE AND WITHIN CLOSE PROXIMITY TO THE SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
 - WHERE EXISTING FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION. PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
 - COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILING, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
 - THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
 - FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
 - LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
 - COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANIS IF REQUIRED UNDER PIPING.
 - TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
 - REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
 - ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
 - MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
 - INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILING.
 - LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL, AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
 - IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
 - DETAILS REFERENCE ALL SHEETS.

NOTE

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SHEET INDEX

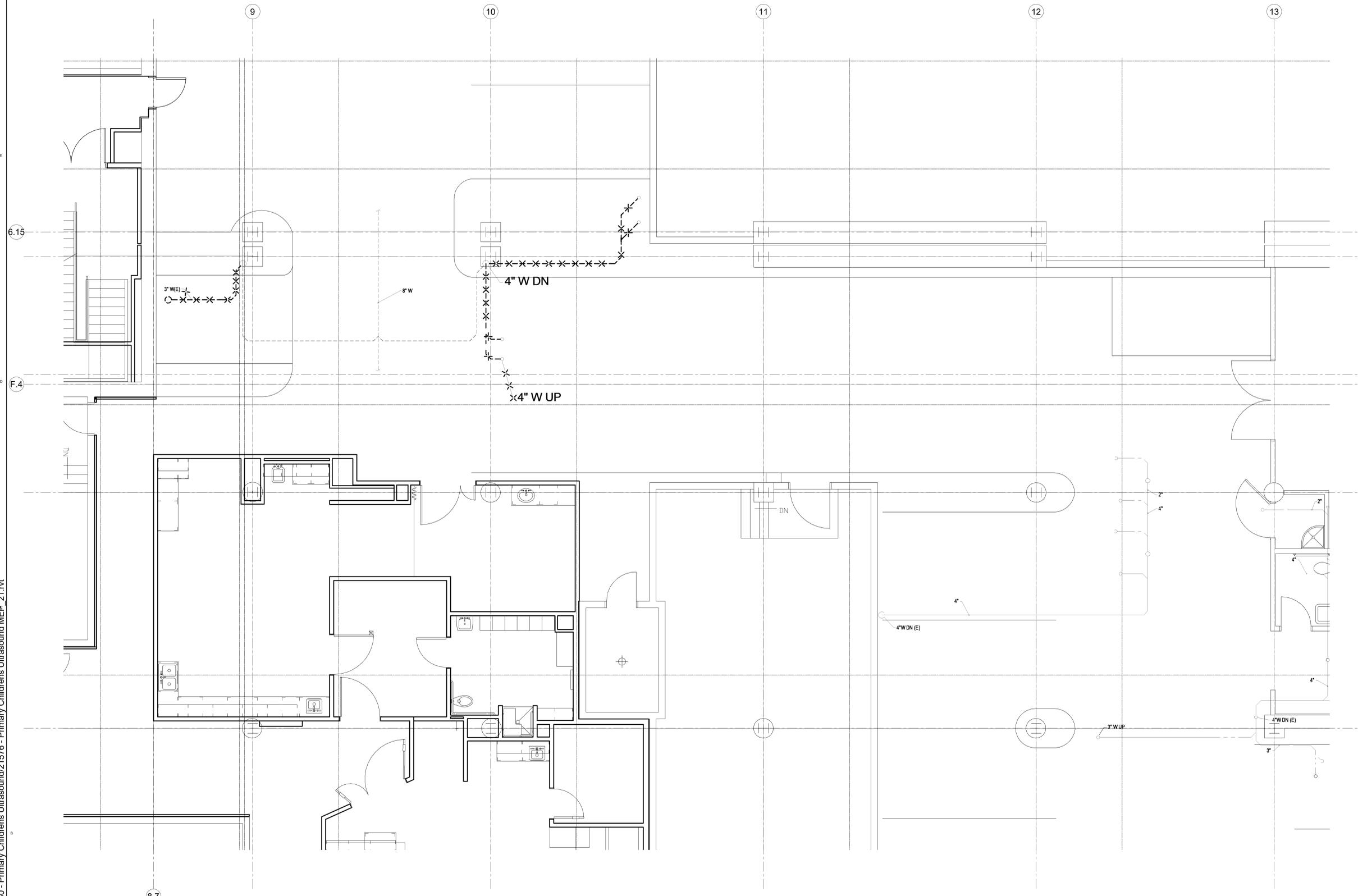
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1 BASEMENT PLUMBING PLAN
PD100 1/4" = 1'-0"



- GENERAL NOTES:**
- EXISTING ELEMENTS SHOWN DARK WITH DASHED LINES TO BE DEMOLISHED, TYPICAL.
 - EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.

PROJECT #: 00000

CONSTRUCTION DOCUMENTS
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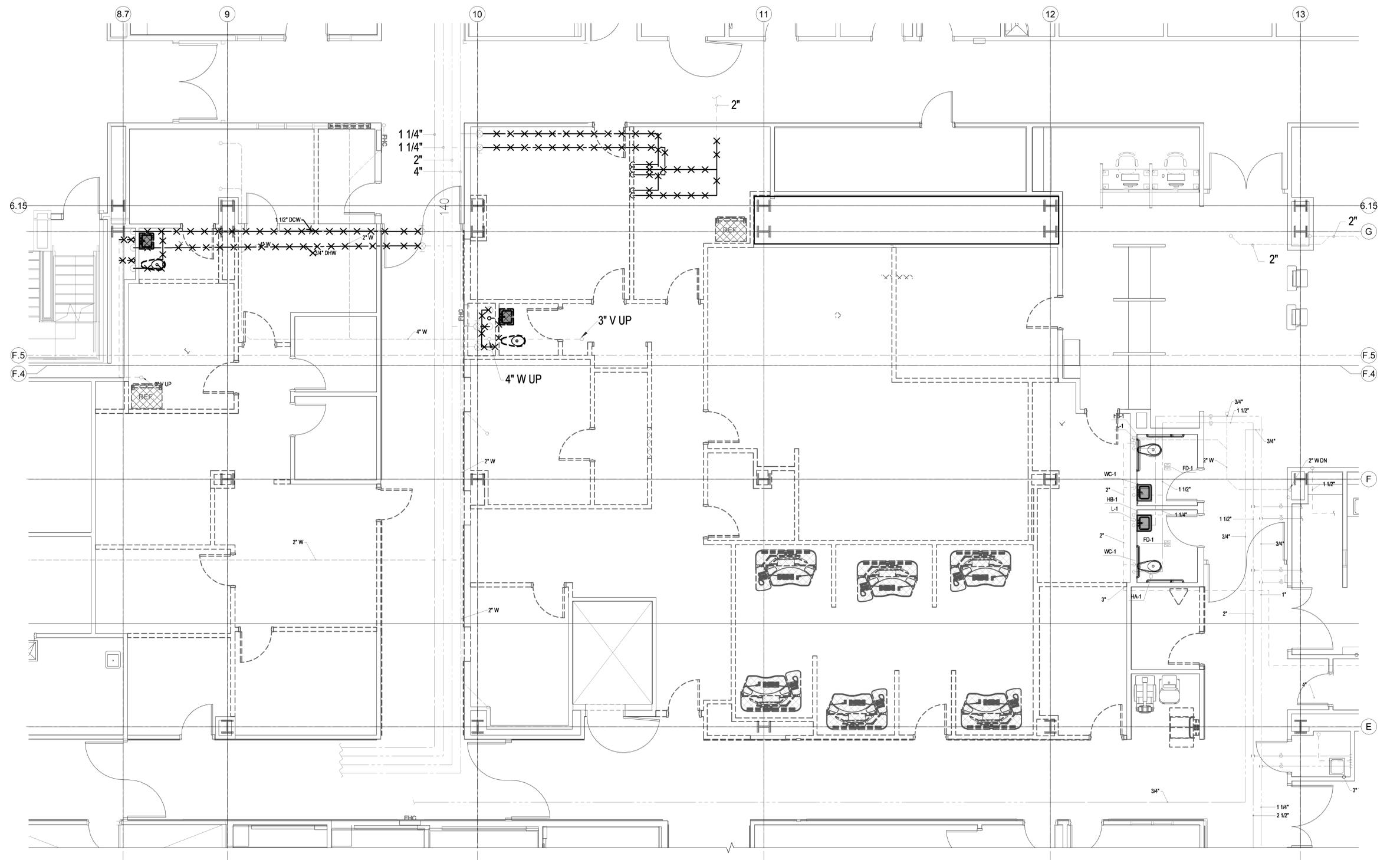


BASEMENT
LEVEL
PLUMBING
DEMO PLAN

PD100

BIM 360//IHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

10/26/2022 11:35:16 AM



1 LEVEL 1 PLUMBING PLAN
PD101 SCALE 1/4" = 1'-0"



KEYNOTES

GENERAL NOTES:

- 1. EXISTING ELEMENTS SHOWN DARK WITH DASHED LINES TO BE DEMOLISHED, TYPICAL.
- 2. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.

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PROJECT #: 00000

CONSTRUCTION DOCUMENTS
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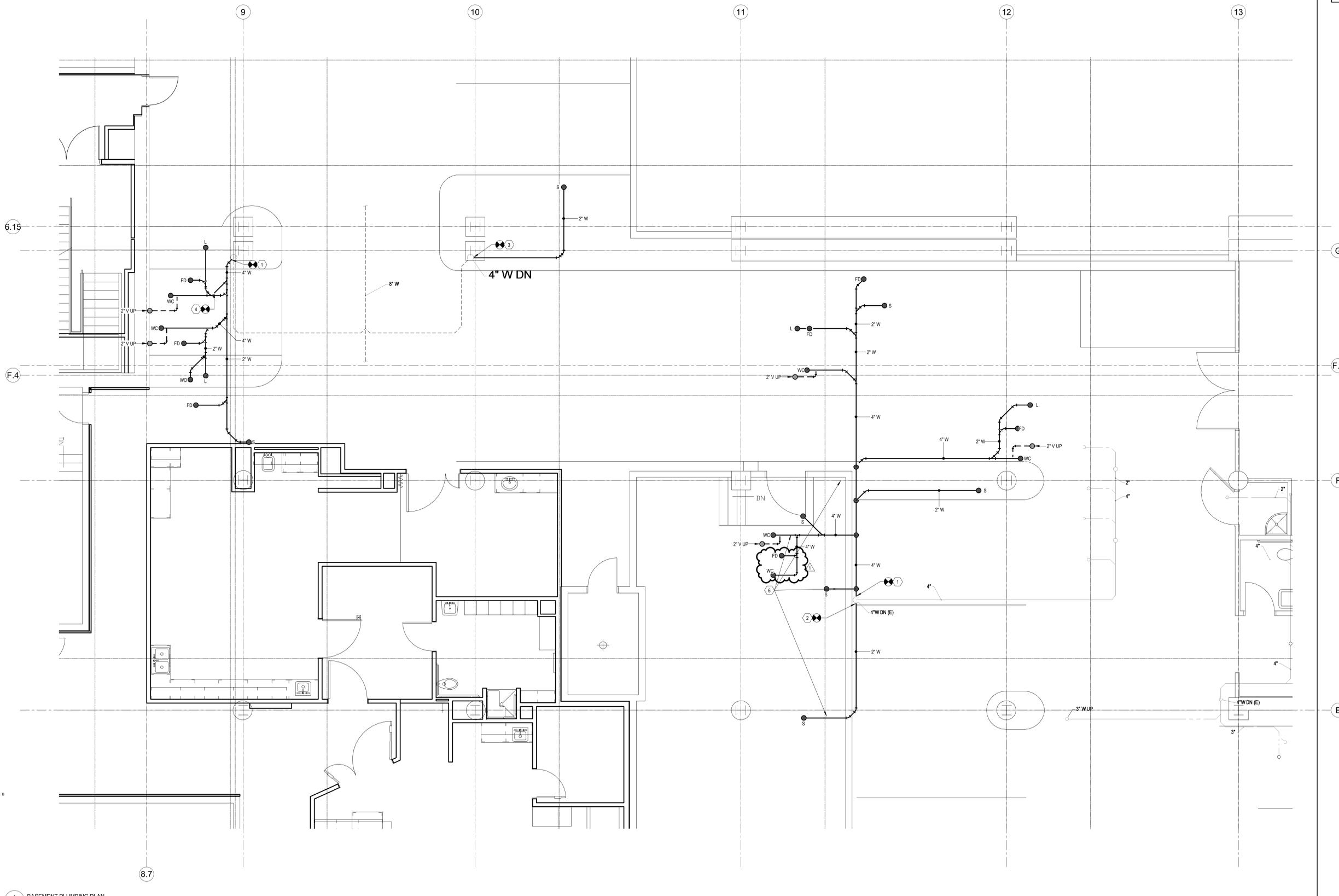


LEVEL 1
PLUMBING
DEMO PLAN

PD101

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- KEYNOTES**
- 1 CONNECT NEW 4" W TO EXISTING 4" W.
 - 2 CONNECT NEW 2" W TO EXISTING 4" W.
 - 3 CONNECT NEW 2" W TO EXISTING 2" W.
 - 4 CONNECT NEW 3" W TO EXISTING 3" W.
 - 5 PROVIDE AND INSTALL DRAIN PAN UNDER ALL WASTE PIPING IN ELECTRICAL ROOM. PROVIDE DRAIN TO DRAIN PAN AND TERMINATE TO CORNER OF ELECTRICAL ROOM. PROVIDE AND INSTALL WATER BUG ON FLOOR AT TERMINATION POINT OF DRAIN PIPE. WATER BUG IS TO ALERT BMS UPON MOISTURE DETECTION.

1 P100 BASEMENT PLUMBING PLAN
1/4" = 1'-0"

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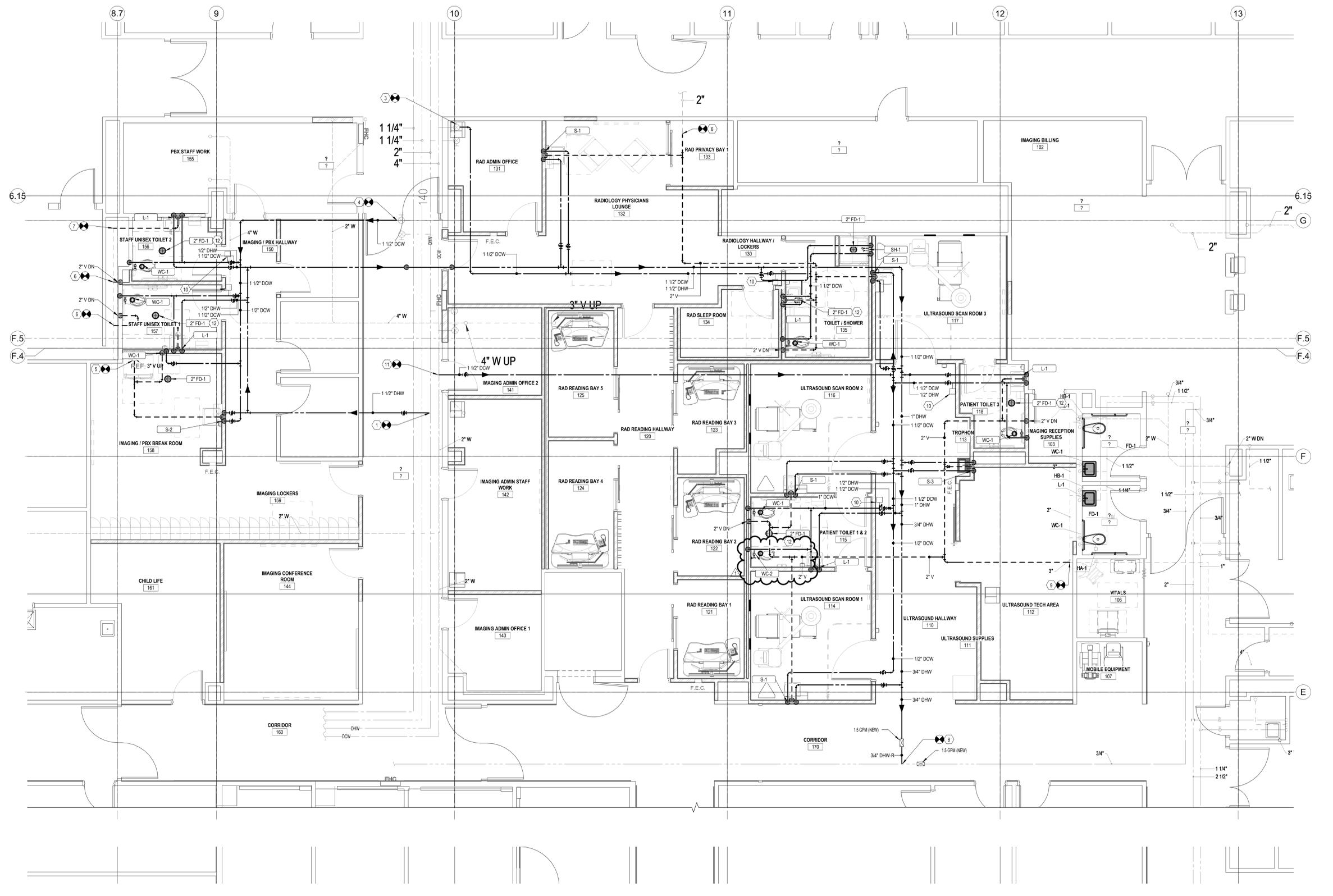
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| 1 01/19/23 | Addendum #01 |
| 23 | |



BASEMENT
LEVEL
PLUMBING
PLAN

P100

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt



- KEYNOTES**
- CONNECT NEW 1-1/2" DHW TO EXISTING 2" DHW. COORDINATE THE SHUT DOWN OF ANY WATER MAINS WITH OWNER.
 - CONNECT NEW 1-1/2" DCW TO EXISTING 1-1/2" DCW.
 - CONNECT NEW 1-1/2" DCW TO EXISTING 1-1/2" DCW.
 - CONNECT NEW 1-1/2" V TO EXISTING 3" V UP.
 - CONNECT 2" V TO EXISTING 2" V.
 - CONNECT NEW 1-1/2" V TO EXISTING 2" V.
 - CONNECT 3/4" DHWR TO EXISTING 3/4" DHWR.
 - CONNECT NEW 2" V TO EXISTING 2" V.
 - PROVIDE WATER HAMMER ARRESTOR DOWNSTREAM OF ISOLATION VALVE.
 - CONNECT NEW 1-1/2" DCW TO EXISTING 4" DCW.
 - COORDINATE LOCATION OF FLOOR DRAIN WITH ARCHITECTURAL DRAWINGS.
 - COORDINATE LOCATION OF FLOOR DRAIN WITH ARCHITECTURAL DRAWINGS.

1 LEVEL 1 PLUMBING PLAN
P101 SCALE 1/4" = 1'-0"

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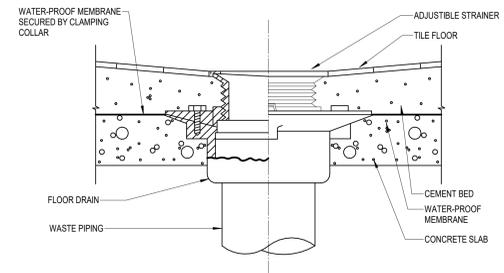
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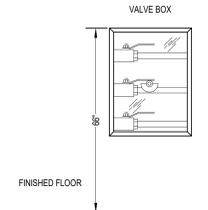


LEVEL 1 PLUMBING PLAN

P101



1 FLOOR / SHOWER DRAIN DETAIL
12" = 1'-0"



2 MEDICAL GAS MOUNTING HEIGHT DETAIL
12" = 1'-0"

| DATE | REVISION |
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| | |



| PLUMBING FIXTURE SCHEDULE | | | | | | | |
|---------------------------|----------------|---------|---------|--------|--------|--|---|
| ID | FIXTURE | CW (IN) | HW (IN) | W (IN) | V (IN) | DESCRIPTION | SPECIFICATION |
| WC-2 | WATER CLOSET | 1 | -- | 4 | 2 | FLOOR MOUNTED, MANUAL FLUSH VALVE | WATER CLOSET: KOHLER K-96084 PRIMARY VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT, ADA TOILET; SLOAN WES-111 MANUAL DUAL FLUSH, 1.8 GPF AND 1.1 GPF FLUSH VALVE, INST. ACTUATOR ON WIDE SIDE OF FIXTURE. |
| L-1 | LAVATORY | 1/2 | 1/2 | 1 1/2 | 1 1/2 | WALL HUNG, VITREOUS CHINA, GOOSENECK FAUCET WITH WRISTBLADES | WALL HUNG, VITREOUS CHINA, GOOSENECK FAUCET WITH WRISTBLADE HANDLES, GMPFC RIGID/SWING GOOSE NECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT, PROVIDE CHICAGO 181 PMAB THERMOSTATIC MIXING VALVE, SLOAN EFT-470-A CHECK VALVES ON HOT AND COLD LINES, FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG, SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT, PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE. |
| S-1 | SCAN ROOM SINK | 1/2 | 1/2 | 2 | 1 1/2 | COUNTER MOUNTED, STAINLESS STEEL WITH WRIST BLADES | SINK: JUST SLN-ADA-17519-16-GR 16" X 11.5" X 5-1/2" I.D. COUNTER MOUNT 16 GA. STAINLESS STEEL SINK WITH 3 HOLES ON 8" CENTERS DRILLING. CHICAGO 786-GNFPCKABCP FAUCET, WITH WRIST BLADE HANDLES, GMPFC RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT, FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN OUT PLUG, AND JUST J-35-FS OPEN-GRID STRAINER MOUNTED FLUSH WITH SINK BOTTOM. |
| S-2 | BREAKROOM SINK | 1/2 | 1/2 | 1 1/2 | 1 1/2 | COUNTER MOUNTED, STAINLESS STEEL WITH WRIST BLADES | SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT): JUST SLN-ADA-2125-A-GR 18 GA. TYPE 304 STAINLESS STEEL SINK 16" X 22" X 5-1/2" DEEP BASIN WITH INTEGRAL DRAIN, SEAT RIMMING, 8" CENTERS DRILLING CHICAGO 786-GNFPCKABCP FAUCET, WITH WRIST BLADE HANDLES WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT, J-35-FS OPEN-GRID STRAINER MOUNTED FLUSH WITH SINK BOTTOM. |
| S-3 | HALLWAY SINK | 1/2 | 1/2 | 2 | 1 1/2 | COUNTER MOUNTED, STAINLESS STEEL WITH WRIST BLADES | SINK: JUST SL-16-17-A-GR 16" X 10" X 7.5" I.D. COUNTER MOUNT 16 GA. STAINLESS STEEL SINK WITH 3 HOLES ON 8" CENTERS DRILLING. CHICAGO 786-GNFPCKABCP FAUCET, WITH WRIST BLADE HANDLES, GMPFC RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT, FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN OUT PLUG, AND JUST J-35-FS OPEN-GRID STRAINER MOUNTED FLUSH WITH SINK BOTTOM. |
| SH-1 | SHOWER | 1/2 | 1/2 | -- | -- | SHOWER | CONTROL ADJUSTABLE HIGH/LIN STOP SWITCH, INTEGRAL SERVICE STOPS WITH CHECKS, (1/4") SS HOSES WITH AUTOMATIC HOSE DRINK, INLINE BREAKER, WALL CONNECTION AND ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING. |
| FD-1 | FLOOR DRAIN | -- | -- | 2 | 1 1/2 | FLOOR DRAIN | FLOOR DRAIN - SMITH 2005Y-A FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE ROUND STRAINER HEAD WITH SECURED GRATE AND DEEP SEAL P-TRAP. |
| WO-1 | WATER OUTLET | 1/2" | -- | 2 | 1 1/2 | WATER OUTLET | WATER OUTLET BOX - WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN QUARTER TURN BALL VALVE FOR USE WITH ICE AND SODA MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. PROVIDE WITH PVC TRAP. |

| MEDICAL GAS OUTLETS SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|------------------------------|------------|--------------|----|----|------|-----|----|-----|----|----|-----|-----------------------------|-----|------|----|----|-----|----|-----|---------|
| SYMBOL | ROOM TYPE | # OF OUTLETS | | | | | | | | | | PIPE DROP SIZE TO OUTLET(S) | | | | | | | | REMARKS |
| | | O2 | MA | MV | WAGD | N2O | N | CO2 | DV | DA | O2 | MA | MV | WAGD | NO | N | CO2 | DV | DA | |
| MO-1 | ULTRASOUND | 2 | 2 | 2 | -- | -- | -- | -- | -- | -- | 1/2 | 1/2 | 3/4 | -- | -- | -- | -- | -- | 1.2 | |

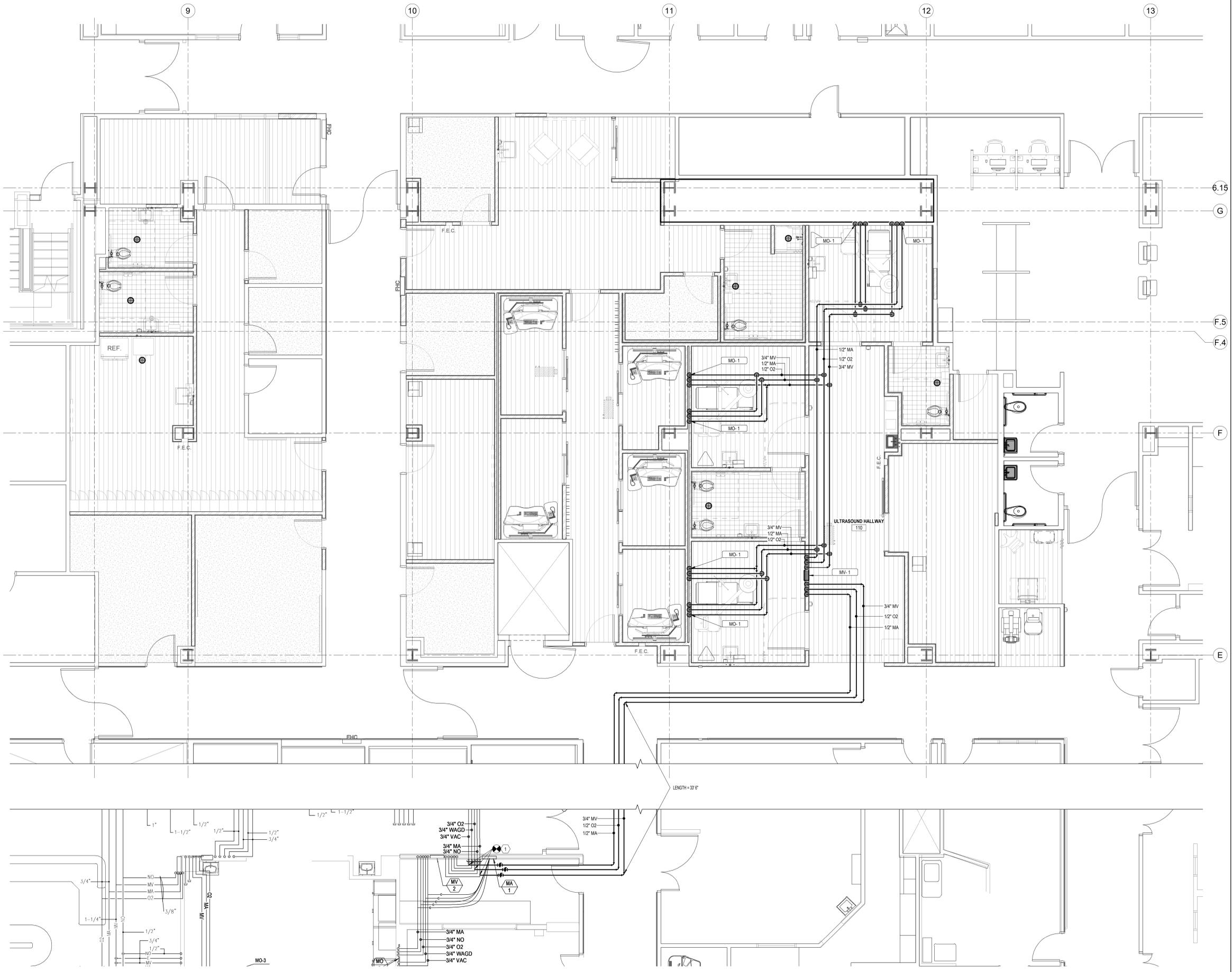
UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS
 OUTLETS IN MEDICAL EQUIPMENT ARE SUPPLIED WITH THE PIECE OF EQUIPMENT
 REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATION AND PLACEMENT OF OUTLETS.
 1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS
 2. WALL MOUNTED OUTLETS

| MEDICAL GAS VALVE SCHEDULE | | | | | | | | | | | | |
|----------------------------|-------------|--------------------|----|----|-----|-----|------|----|----|-----|----|---------|
| SYMBOL | AREA SERVED | PIPE SIZE (INCHES) | | | | | | | | | | REMARKS |
| | | OX | DV | DA | MA | MV | WAGD | NO | N | CO2 | CA | |
| MV-1 | ULTRASOUND | 1/2 | -- | -- | 1/2 | 3/4 | -- | -- | -- | -- | -- | 1 |

1. ALL VALVE BOXES TO COME WITH WITH GAUGES

| CONSTRUCTION DOCUMENTS | |
|------------------------|--------------|
| DATE | REVISION |
| 11/11/2022 | |
| 01/19/23 | Addendum #01 |





KEYNOTES
 1 CONNECT NEW 1/2" O2, 1/2" MA, AND 3/4" MV LINES TO EXISTING 1/2" O2, 1/2" MA, AND 3/4" MV LINES.

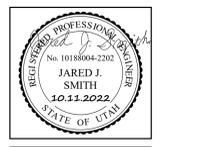
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PROJECT #: 00000

| CONSTRUCTION DOCUMENTS | |
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**LEVEL 1
 MEDICAL GAS
 PLAN**

MG101

| GENERAL MECHANICAL SYMBOLS | | FIRE PROTECTION SYMBOLS | |
|---|--------------------------------------|---|--|
| | REVISION NUMBER - SHOWN ON PLANS | | FIRE PROTECTION DRY |
| | POINT WHERE NEW CONNECTS TO EXISTING | | FIRE PROTECTION OTHER |
| | NUMBER OF DETAIL ON SHEET | | FIRE PROTECTION PRE-ACTION |
| | NUMBER OF SHEET WHERE DETAIL APPEARS | | FIRE PROTECTION WET |
| | KEYNOTE | | COMBINATION FIRE & DOMESTIC UPRIGHT SPRINKLER HEAD |
| | CONTINUATION SYMBOL | | PENDENT SPRINKLER HEAD |
| | ROOM NAME AND NUMBER | | RECESSED SPRINKLER HEAD |
| | ITEM TO BE DEMOLISHED | | CONCEALED SPRINKLER HEAD |
| | AREA NOT IN CONTRACT | | 1' REPRESENTS DRY SPRINKLER HEAD |
| | PIPE SIZE TAG (DIAMETER) | | SIDEWALL SPRINKLER HEAD |
| | ABOVE GROUND PIPING | | EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD |
| | PIPE SLOPE TAG | | OBSTRUCTION FROM DUCTWORK 48" AND GREATER |
| | BELOW GROUND PIPING | | PIPE DROP |
| | PIPE INVERT ELEVATION TAG | | PIPE RISE |
| | EXISTING PIPE TAG | | PIPE TEE |
| | PIPING BEING DEMOLISHED | | REDUCING 45 DEGREE TEE |
| ABBREVIATIONS | | PIPE ACCESSORY TAGS | |
| ABV ABOVE | LVR LOUVER | | 2" M-CTRL MOTORIZED CONTROL VALVE |
| AC AIR CONDITIONING | LWT LEAVING WATER TEMPERATURE | | 2" 3-WAY CNTRL 3 WAY MOTORIZED CONTROL VALVE |
| AD AREA DRAIN | M/A MIXED AIR | | 2" PRV PRESSURE REDUCING VALVE |
| ADD ABBREVIUM | MAX MAXIMUM | | 3" SOLENOID REFRIGERANT SOLENOID VALVE |
| AFU ABOVE FINISHED FLOOR | MBH ONE THOUSAND BTU PER HOUR | | 2" TMV BUTTERFLY VALVE |
| AFUE ANNUAL FUEL UTILIZATION EFFICIENCY | MCF ONE THOUSAND CUBIC FEET | | |
| ALT ALTERNATE | MD MOTORIZED DAMPER | | |
| AP ACCESS PANEL | MFR MECHANICAL MANUFACTURER | | |
| ARCH ARCHITECT/ARCHITECTURAL | MIN MINIMUM | | |
| BFF BELOW FINISHED FLOOR | MISC MISCELLANEOUS | | |
| BLW BELOW | MTR MOTOR | | |
| BTU BRITISH THERMAL UNITS | MUA MAKE-UP AIR | | |
| BTUH BRITISH THERMAL UNITS PER HOUR | NC NOISE CRITERIA | | |
| CAP CAPACITY | NC NORMALLY CLOSED | | |
| CB CATCH BASIN | NIC NOT IN CONTRACT | | |
| CFM CUBIC FEET PER MINUTE | NO NUMBER | | |
| CLG CEILING | NO NORMALLY OPEN | | |
| CO CLEAN OUT | NTS NOT TO SCALE | | |
| CW COLD WATER | O OXYGEN | | |
| D DEGREE | OIA OUTSIDE AIR | | |
| DB DRY BULB | ORD OVERFLOW ROOF DRAIN | | |
| DA DIAMETER | PD PRESSURE DROP | | |
| DN DOWN | PIV POST INDICATOR VALVE | | |
| DW DISTILLED WATER | PLBG PLUMBING | | |
| EA EACH | PRESS PRESSURE | | |
| EAT ENTERING AIR TEMPERATURE | PRV PRESSURE REDUCING VALVE | | |
| ELEC ELECTRICAL | PSI POUNDS PER SQUARE INCH | | |
| EQUIP EQUIPMENT | PSIG POUNDS PER SQUARE INCH GAUGE | | |
| EWC ELECTRIC WATER COOLER | PWR POWER | | |
| EWT ENTERING WATER TEMPERATURE | R DUCT RISER | | |
| EA EXHAUST AIR | RIA RETURN AIR | | |
| EXIST EXISTING | ROP RADIANT CEILING PANEL | | |
| F DEGREES FAHRENHEIT | RD ROOF DRAIN | | |
| FCO FLOOR CLEAN OUT | REC RECESSED | | |
| FD FLOOR DRAIN | RED REDUCER | | |
| RH FIRE DAMPER | RD RELATIVE HUMIDITY | | |
| FDV FIRE DEPARTMENT VALVE | RLA RELIEF AIR | | |
| FL FLOOR | RM ROOM | | |
| FO FUEL OIL | RPM REVOLUTIONS PER MINUTE | | |
| FOV FUEL OIL VENT | RW RAIN WATER | | |
| FOR FUEL OIL RETURN | SF SQUARE FOOT | | |
| FOS FUEL OIL SUPPLY | SIA SUPPLY AIR | | |
| FFM FEET PER MINUTE | SAN SANITARY | | |
| FS FLOOR SINK | SF SQUARE FOOT | | |
| FT FOOTFEET | SD SMOKE DAMPER | | |
| FTR FIN TUBE RADIATION | SM SURFACE MOUNT | | |
| GAL GALLON | SP STANDPIPE | | |
| GC GENERAL CONTRACTOR | SP STATIC PRESSURE | | |
| GPM GALLONS PER MINUTE | STM STEAM | | |
| GW GREASE WASTE | T THERMOSTAT | | |
| HB HOSE BIB | TD TEMPERATURE DROP | | |
| HP HORSE POWER | TDR TRENCH DRAIN | | |
| HTG HEATING | TEMP TEMPERATURE | | |
| HTR HEATER | TYP TYPICAL | | |
| HW HOT WATER | UG UNDERGROUND | | |
| HYD HYDRANT | VAC VACUUM | | |
| ID INDIRECT | V VENT | | |
| IN INCH | VAV VARIABLE AIR VOLUME | | |
| INV INVERT | VENT VENTILATION | | |
| LB POUND | VTR VENT THROUGH ROOF | | |
| LBHR POUNDS PER HOUR | W WASTE | | |
| LAT LEAVING AIR TEMPERATURE | WB WET BULB | | |
| LP LOW PRESSURE | WCO WALL CLEAN OUT | | |
| LPG LIQUEFIED PETROLEUM GAS | WH WALL HYDRANT | | |
| | | FIRE SPRINKLER PIPING SCHEDULE | |
| | | NPS 1 SCHEDULE 40 OR THREADED THIN WALL, THREADED ENDS | |
| | | NPS 2 1-1/4 THRU 2 SCHEDULE 40 OR THREADED THIN WALL, GROOVED ENDS, OR THREADED ENDS. | |
| | | NPS 2-1/2 THRU 4 SCHEDULE 40, GROOVED ENDS, WELDED OUTLETS. | |
| | | NPS 6 AND LARGER SCHEDULE 40 OR SCHEDULE 10, GROOVED FITTINGS, WELDED OUTLETS. | |
| | | WATER SUPPLY INFORMATION | |
| | | STATIC PRESSURE: ## PSI | |
| | | RESIDUAL PRESSURE: ## PSI | |
| | | RESIDUAL FLOW: #### GPM | |
| | | TEST PERFORMED BY: NAME | |
| | | TEST DATE: DATE | |
| | | TEST LOCATION: LOCATION | |
| | | *NOTE* | |
| | | ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS. | |

FIRE PROTECTION GENERAL NOTES

- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REDROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED, IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND REMOVE AND REPLACE ANY EXISTING ALLIED XL PIPING.
- THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS, ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE PUMP DATA FOR HYDRAULIC CALCULATIONS.

AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA

| SYMBOL | OCCUPANCY HAZARD CLASSIFICATION | DESIGN DENSITY (GPM/SF) | DESIGN AREA |
|--------|------------------------------------|-------------------------|-------------|
| R | RESIDENTIAL (DWELLING) OCCUPANCY | 0.05 | 400 SF |
| LH | LIGHT HAZARD OCCUPANCY | 0.10 | 1500 SF |
| OH1 | ORDINARY HAZARD, GROUP 1 OCCUPANCY | 0.15 | 1500 SF |
| S | SPECIAL HAZARD OCCUPANCY | | |

MECHANICAL SHEET INDEX

OCCUPANCY HAZARD CLASSIFICATION...

| NO. | LOCATION | AREA | OCCUPANCY HAZARD CLASSIFICATION SYMBOL |
|-----------------|-----------------------------|--------|--|
| 01 | STAFF LINEN TOILET 2 | 65 SF | (none) |
| 02 | STAFF UNSEX TOILET 1 | 65 SF | (none) |
| 03 | PBX OFFICE 2 | 63 SF | (none) |
| 04 | IMAGING PBX HALLWAY | 125 SF | (none) |
| 05 | IMAGING PBX BREAKROOM | 227 SF | (none) |
| 06 | IMAGING LOCKERS | 177 SF | (none) |
| 07 | CHILD LIFE | 174 SF | (none) |
| 08 | IMAGING CONFERENCE | 216 SF | (none) |
| 09 | IMAGING ADMIN OFFICE 1 | 89 SF | (none) |
| 10 | IMAGING ADMIN STAFF WORK | 181 SF | (none) |
| 11 | RAD READING BAY 4 | 86 SF | (none) |
| 12 | RAD READING BAY 5 | 85 SF | (none) |
| 13 | IMAGING ADMIN OFFICE 2 | 84 SF | (none) |
| 14 | RAD READING HALLWAY | 204 SF | (none) |
| 15 | RADIOLOGY HALLWAY LOCKERS | 205 SF | (none) |
| 16 | RAD ADMIN OFFICE | 100 SF | (none) |
| 17 | RADIOLOGY PHYSICIANS LOUNGE | 163 SF | (none) |
| 18 | RAD PRIVACY BAY 1 | 42 SF | (none) |
| 19 | RAD SLEEP ROOM | 60 SF | (none) |
| 20 | TOILET/SHOWER | 101 SF | (none) |
| 21 | ULTRASOUND SCAN ROOM 3 | 166 SF | (none) |
| 22 | RAD READING BAY 3 | 68 SF | (none) |
| 23 | RAD READING BAY 2 | 67 SF | (none) |
| 24 | ULTRASOUND SCAN ROOM 2 | 159 SF | (none) |
| 25 | PATIENT TOILET 1 & 2 | 84 SF | (none) |
| 26 | ULTRASOUND HALLWAY | 278 SF | (none) |
| 27 | TROPHON | 6 SF | (none) |
| 28 | PATIENT TOILET 3 | 65 SF | (none) |
| 29 | IMAGING RECEPTION SUPPLIES | 34 SF | (none) |
| 30 | ULTRASOUND SUPPLIES | 25 SF | (none) |
| 31 | ULTRASOUND TECH AREA | 238 SF | (none) |
| 32 | VITALS | 55 SF | (none) |
| 33 | MOBILE EQUIPMENT | 40 SF | (none) |
| 34 | ULTRASOUND SCAN ROOM 1 | 159 SF | (none) |
| 35 | EXISTING READING ROOM | 85 SF | (none) |
| 36 | EXISTING SLEEP ROOM | 68 SF | (none) |
| 37 | RAD READING BAY 1 | 67 SF | (none) |
| Grand total: 37 | | | 4120 SF |

| CONSTRUCTION DOCUMENTS | |
|------------------------|----------|
| 10/11/2022 | |
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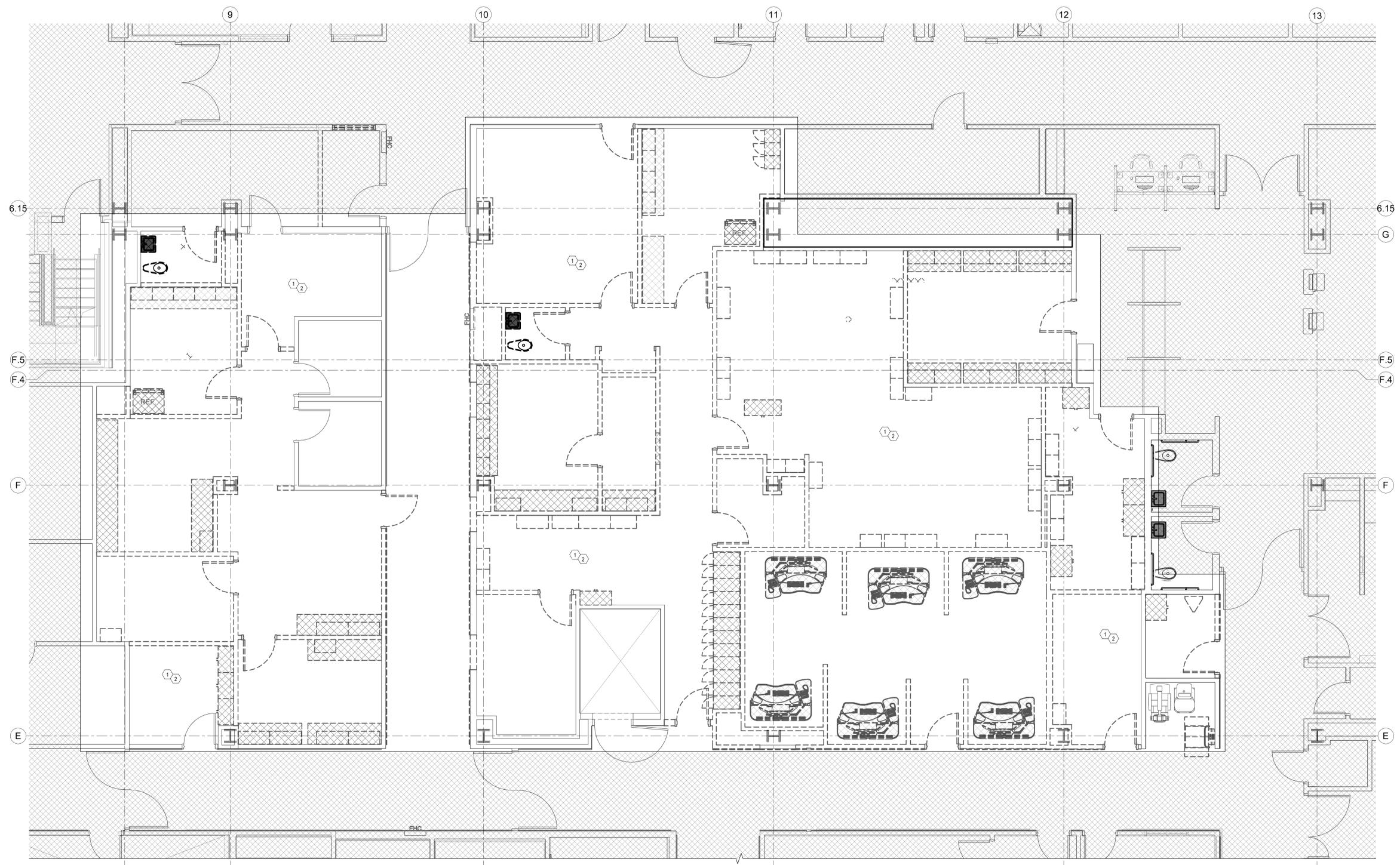


FIRE PROTECTION TITLE SHEET

F001

BIM 360/IIHC_014_30 - Primary Childrens Ultrasound/21576 - Primary Childrens Ultrasound MEP_21.rvt

10/26/2022 11:32:25 AM



1 LEVEL 1 FIRE PROTECTION PLAN
FD101 SCALE 1/4" = 1'-0"



KEYNOTES
THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING SPRINKLERS. ADD/REPOSITION EXISTING SPRINKLER LOCATION WITH NEW SPRINKLER HEAD AS NECESSARY FOR THE REMODELED SPACE. INCLUDING NEW FLOOR PLAN CEILING PLAN AND CEILING HEIGHT ADJUSTMENTS. MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL. REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
REMOVE AND REPLACE ANY ALLIED XL PIPING IN REMODEL AREA.

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LEVEL 1 FIRE PROTECTION DEMO PLAN

FD101

BIM 360/IIHC_014.30 - Primary Childrens Ultrasound MEP_21.rvt



KEYNOTES
THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING SPRINKLERS. ADJUST/REPOSITION EXISTING SPRINKLER LOCATION WITH NEW SPRINKLER HEAD AS NECESSARY FOR THE REMODELED SPACE. INCLUDING NEW FLOOR PLAN CEILING PLAN AND CEILING HEIGHT ADJUSTMENTS. MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL. REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
ALL SPRINKLERS IN THE REMODELED AREA ARE TO BE REPLACED WITH QUICK RESPONSE TYPE. REPLACEMENT OF SPRINKLERS SHALL EXTEND TO ALL WALLS OR SOFFIT BREAKS.
FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.
REMOVE AND REPLACE ANY ALLIED XL PIPING IN REMODEL AREA.

1 LEVEL 1 FIRE PROTECTION PLAN
SCALE 1/4" = 1'-0"



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LEVEL 1 FIRE PROTECTION PLAN

F101

SYMBOLS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes sections for REFERENCE AND LINE SYMBOLS, WIRING METHODS, LIGHTING, and WIRING DEVICES.

SYMBOLS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes sections for WIRING DEVICES, ELECTRICAL POWER AND DISTRIBUTION, FIRE ALARM, and ELECTRICAL POWER AND DISTRIBUTION.

SYMBOLS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes sections for ELECTRICAL POWER AND DISTRIBUTION, FIRE ALARM, and ELECTRICAL POWER AND DISTRIBUTION.

SYMBOLS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes sections for CCTV, PTZ, SECURITY, TV DISTRIBUTION, and NURSE CALL.

ELECTRICAL SHEET INDEX table with columns for SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES. Lists various sheets and their contents.

ABBREVIATIONS table with columns for SYMBOL and DESCRIPTION. Includes sections for DEFINITIONS and ABBREVIATIONS.

GENERAL ELECTRICAL NOTES table with columns for CLARIFICATION METHODS. Contains numbered notes regarding bidding, installation, and equipment.

JRCA ARCHITECTS logo and contact information. Includes address, phone, and website details. Also features a professional seal for a registered professional engineer.