City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

# Notice

## This material is subject to copyright protection pursuant to Federal Law: 17 United States Code Section 106.

## GENERAL NOTES - DEMOLITION

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

B. REMOVE EXISTING PIPING, WHERE NOTED, TO BEYOND FINISHED SURFACES AND CAP OR AS INDICATED ON PLANS. VERIFY EXACT LOCATION OF EXISTING PLUMBING AT SITE.

C. ANY EXISTING PLUMBING RISER LOCATED IN WALLS/CHASES DESIGNATED TO BE REMOVED, MUST BE RELOCATED TO A CONVENIENT LOCATION.

## FIRE PROTECTION NOTES

A. IN THE RENOVATED AREAS CONTRACTOR TO MODIFY THE EXISTING SPRINKLER SYSTEM TO MATCH NEW CEILING LAYOUT. REMOVE EXISTING SPRINKLER HEADS & PROVIDE NEW BUILDING STANDARD QUICK RESPONSE SPRINKLER HEADS.

B. COORDINATE SPRINKLER LOCATIONS WITH ALL TRADES.

C. PROVIDE RECESSED HEADS FOR BOTH CATH LABS ROOMS.

## GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING PLUMBING PIPING LOCATIONS THAT SHALL BE CONNECTED TO, PRIOR TO ANY PIPING INSTALLATION.

B. COORDINATE WITH OWNER AND PERSONNEL THE SHUT-DOWN OF THE EXISTING SYSTEM.

C. ROUTE ALL PLUMBING PIPING AS TIGHT AS POSSIBLE TO BOTTOM OF FLOOR STRUCTURE AND FLOOR JOISTS.

D. COORDINATE WITH MECHANICAL CONTRACTOR THE LOCATION AND ROUTING OF ALL PLUMBING AND MEDICAL GAS.

E. PROVIDE CLEANOUTS AT THE BASE OF THE STORM AND SANITARY STACKS.

F. COORDINATE VTR LOCATIONS WITH AIR INTAKE LOCATIONS. THERE SHALL BE AT LEAST 25 FEET DISTANCE IN BETWEEN THESE LOCATIONS.

G. ALL SANITARY SEWER WALL CLEANOUTS SHALL BE PLACED AT 18" AFF.

H. PROVIDE "NIBCO" TOLCO CUSTOM CLAMP ON ALL MEDICAL GAS PIPING ABOVE CEILING .

I. PROVIDE A REDUCE PRESSURE BACKFLOW PREVENTER AT EACH MEDICAL EQUIPMENT OR EQUIPMENT REQUIRED BY CODE.

## MEDICAL GAS LEGEND

MGB = MEDICAL GAS BOOMS
MGC = MEDICAL GAS CEILING COLUMNS
MGD = MEDICAL GAS HOSE DROP
MGH = MEDICAL GAS HEADWALL
MGO = MEDICAL GAS WALL OUTLETS
MGP = MEDICAL GAS PEDESTAL
OX = OXYGEN
MA = MEDICAL COMPRESSED AIR
MV = MEDICAL VACUUM
S = SLIDE (ONE PER MV)
N = NITROGEN
N2O = NITROUS OXIDE
CO2 = CARBON DIOXIDE
WAG = WASTE ANESTHETIC GAS EVACUATION
AAP = AREA ALARM PANEL
NCC = NITROGEN CONTROL CABINET
MAP = MASTER ALARM PANEL
MAI = MEDICAL AIR INTAKE
MVE = MEDICAL VACUUM EXHAUST
ZVB = ZONE VALVE BOX

MGO– OX,MA,MV,S,N,N2O,WAG

OXYGEN
MEDICAL COMPRESSED AIR
MEDICAL VACUUM
SLIDE
WASTE ANESTHETIC GAS
NITROUS OXIDE
NITROGEN

EXAMPLE: MGO–212011

2 OX
1 MA
2 MV
2 SLIDES
WAG
NITROUS OXIDE
NITROGEN

MEDICAL GAS NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS & MOUNTING HEIGHTS FOR MEDICAL GAS OUTLETS, ZONE VALVE BOXES, ALARM PANELS, ETC..

B. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE SUPPLIER OF MEDICAL GAS OUTLETS (CONTRACTOR OR EQUIPMENT SUPPLIER).

C. NOT ALL GASES MAY BE USED. THE GAS ORDER SHOWN IN THE EXAMPLE WILL BE TYPICAL FOR ALL OUTLETS.

D. COORDINATE MEDICAL GAS PIPE ROUTING WITH ALL THE OTHER TRADES BEFORE INSTALLATION.

E. ALL VALVES THAT ARE NOT LOCATED IN ZONE BOXES TO BE LOOKING TYPE.

## PLUMBING FIXTURE SCHEDULE

| DESIG. | FIXTURE TYPE | CONNECTION SIZE | | | | DESCRIPTION |
|---|---|---|---|---|---|---|
| | | San. Sewer | Vent | Cold Water | Hot Water | |
| WC-1 | WATER CLOSET HANDICAP ADA COMPLIANT PUBLIC/STAFF | 4" | 3" | 1" | – | AMERICAN STANDARD "MADERA" MODEL No. 3043.102 (WHITE) FLUSH VALVE WATER CLOSET FLOOR MTD., VITREOUS CHINA, 17" RIM HEIGHT, 10" ROUGHING-IN, LOW CONSUMPTION 1.6 GALLONS PER FLUSH, ELONGATED BOWL, DIRECT FED SIPHON JET ACTION, FULLY GLAZED TRAPWAY, 1⅛" TOP SPUD, COMPLETE WITH EXPOSED WATER CLOSET FLUSHOMETER WITH INFRARED SENSOR "SLOAN" ROYAL OPTIMA MODEL No. 111 ES-S, LOW CONSUMPTION, CHROME PLATED, HIGH BACK PRESSURE VACUUM BREAKER FLUSH CONNECTION WITH ONE-PIECE BOTTOM HEX COUPLING NUT, 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP, FREE SPINNING, VANDAL RESISTANT STOP CAP, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE FOR 1⅛" TOP SPUD, PROVIDE PROVIDE SLOAN MODEL No. EL-154 TRANSFORMER (120 VAC) AND EL-226 SOLENOID EXTENSION NIPPLE. PROVIDE WHITE OPEN SEAT FRONT LESS COVER BY "OLSONITE" MODEL No. 95, ADA COMPLIANT. |
| WC-3 | WATER CLOSET HANDICAP ADA COMPLIANT PATIENT ROOMS | 4" | 3" | 1" | – | AMERICAN STANDARD "MADERA" MODEL No. 3043.102 (WHITE) FLUSH VALVE WATER CLOSET, FLOOR MTD., VITREOUS CHINA, 17" RIM HEIGHT, 10" ROUGHING-IN, LOW CONSUMPTION 1.6 GALLONS PER FLUSH, ELONGATED BOWL, DIRECT FED SIPHON JET ACTION, FULLY GLAZED TRAPWAY, 1⅛" TOP SPUD, COMPLETE WITH EXPOSED WATER CLOSET FLUSHOMETER "SLOAN" SLIMLINE BEDPAN WASHER "BPW-1150" DUAL FILTERED BY-PASS, VACUUM BREAKER FLUSH CONNECTION WITH ONE-PIECE BOTTOM HEX COUPLING NUT, 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP, FREE SPINNING, VANDAL RESISTANT STOP CAP, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE FOR 1⅛" TOP SPUD. PROVIDED WHITE OPEN SEAT FRONT LESS COVER BY "OLSONITE" MODEL No. 95, ADA COMPLIANT. |
| L-3 | LAVATORY WALL HUNG ADA COMPLIANT | 2" | 2" | ½" | ½" | AMERICAN STANDARD "LUCERNE" MODEL No. 0356.015 WALL HUNG, VITREOUS CHINA, SELF RIMMING, COMPLETE WITH SERVICE FAUCET "CHICAGO" MODEL No. 786-E29CP, 8" CENTER SET, LAMINAR FLOW STREAM REGULATOR VANDAL RESISTANT SPRAY HEAD STRAINER "McGUIRE 155A CAST BRASS, P-TRAP McGUIRE 8872 SUPPLIES McGUIRE No. 170LK SUPPLY WITH LOOSE KEY ANGLE VALVE. |
| L-5 | LAVATORY WALL HUNG ADA COMPLIANT | 2" | 2" | ½" | ½" | AMERICAN STANDARD "LUCERNE" MODEL No. 0356.015 WALL HUNG, VITREOUS CHINA, SELF RIMMING, COMPLETE WITH SERVICE FAUCET "CHICAGO" MODEL No. 786-E3-665CP METERING CARTRIDGES GOOSENECK SPOUT LAMINAR FLOW STREAM REGULATOR VANDAL RESISTANT SPRAY HEAD, STRAINER "McGUIRE 155A CAST BRASS, P-TRAP McGUIRE 8872 SUPPLIES McGUIRE No. 170LK SUPPLY WITH LOOSE KEY ANGLE VALVE. |
| S-1 | SINGLE COMPARTMENT SINK ADA COMPLIANT | 2" | 2" | ½" | ½" | SINGLE COMPARTMENT SINK SHALL BE "ELKAY" MODEL No. LRAD-1517, 6" DEPTH, SEAMLESS DIE-DRAWN CONSTRUCTION OF 18 GAUGE TYPE 302, STAINLESS STEEL. INTERIOR SURFACES POLISHED TO A NON-POROUS HAND, WITH HIGHLIGHTED BOWL RIM. SMOOTH, FULLY COATED UNDERSIDE INSULATES FOR SOUND AND REDUCES CONDENSATION. STRAIGHT-SIDE COMPARTMENT WITH 1 3/4" RADIUS CORNERS PROVIDES GREATER CAPACITY. SELF-RIMMING TOP MOUNT GRIP RIM PLUS WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS. PROVIDE SINK FAUCET, "CHICAGO" MODEL No. 786-E29, 8" CENTER SET, PLATED FINISH, LAMINAR FLOW STREAM REGULATOR WITH 2.2 GPM FLOW RATE, STRAINER McGUIRE 152 FLAT CHROME, P-TRAP McGUIRE MODEL 8912 AND SUPPLIES McGUIRE No. 170LK. |
| S-2 | SCRUB SINK | 2" | 2" | ½" | ½" | AMERICAN STANDARD MODEL No. 9047093, VITEOUS CHINA, LOW FRONT RIM, WALL HANGER. COMPLETE WITH SERVICE FAUCET "CHICAGO" MODEL No. 116.113.21.1, SINGLE HOLE, DECK MOUNT, ELECTRONIC LAVATORY FITTING WITH DUAL BEAM INFRARED SENSOR, CONCEALED TEMPERATURE CONTROL MIXER, 12 VOLT TRANSFORMER CHICAGO FAUCET MODEL NO. 240.631.00.1, CAST BRASS SPOUT WITH 8" FORGE BRASS COVER PLATE CHROME PLATE FINISH, MULTIPLE FIELD ADJUSTABLE MODES AND RANGES, 0.5 GPM VANDAL RESISTANT SPRAY OUTLET STRAINER McGUIRE 152 FLAT CHROME, P-TRAP McGUIRE MODEL 8912 AND SUPPLIES McGUIRE No. 170LK. |
| S-14 | SINGLE COMPARTMENT SINK | 2" | 2" | ½" | ½" | SOLID SURFACE WITH INTEGRAL BOWL, ( REFER TO ARCHITECTURAL SPECIFICATION SECTION 066116) PROVIDE SINK FAUCET, "CHICAGO" MODEL No. 786-E29CP, 8" CENTER SET, CHROME PLATED FINISH, LAMINAR FLOW STREAM REGULATOR WITH 1.6 GPM FLOW RATE, STRAINER McGUIRE 152 FLAT CHROME, P-TRAP McGUIRE MODEL 8912 AND SUPPLIES McGUIRE No. 170LK. |
| SH-1 | SHOWER STAFF SHOWER | 2" | 2" | ½" | ½" | AMERICAN REINFORCED PLASTICS MODEL No. S-3842-H OR EQUAL. PROVIDE WITH SHOWER FAUCET "SYMMONS" No. S-96-300-B30-X-L-V PRESSURE BALANCING SHOWER VALVE, LEVERTROL VOLUME CONTROL, INLINE VACUUM BREAKER, STOPS AND LEVER HANDLE. PROVIDE SHOWER HEAD ASSEMBLY SYMMONS HAND HELD SHOWER, 60" HOSE, 30" SLIDE BAR. PROVIDE A 2"FD-2. REFER TO ARCHITECTURAL SPECIFICATION SECTION 10 28 13 TOILET ACCESSORIES FOR ADDITIONAL HARDWARE TO BE PROVIDED. |
| MS | MOP SINK JANITOR'S CLOSET | 3" | 2" | 3/4" | 3/4" | "AMERICAN STANDARD" MODEL NO. 7741.000 "FLORWELL", CORNER ENAMELED CAST IRON MOP SINK COMPLETE "CHICAGO" FAUCET MODEL No. 814-V8 WITH VACUUM BREAKER, PAIL HOOK, LEVER HANDLES, INTEGRAL STOPS, CROME PLATED AND SUPPORT ROD BACK TO WALL FLANGE. |
| CSS | CLINICAL SERVICE SINK | 4" | 3" | 1½" | 3/4" | AMERICAN STANDARD # 9512.013 WALL HUNG, VITREOUS CHINA CLINIC SERVICE SINK; J.R SMITH CARRIER; (FRONT ACCESS); SLOAN "REGAL" 117-H-0-V FLUSH VALVE (FRONT ACCESS); CHICAGO # 814-VB FAUCET W/INTEGRAL VAC BRKR AND STOPS; CHICAGO # S-910-G WALL MTD BEDPAN WASHER COMBINATION WITH FOOT PEDAL MIXING VALVE, LOOSE-KEY STOPS, ELEVATED VAC BRKR, 69" WHITE VINYL REINFORCED HOSE WITH CHROME PLATED BRASS WALL FLANGE, SUPPLY ELL, SPRAY OUTLET AND WALL HOOK. |
| HB-2 | JANITOR'S CLOSET | – | – | 3/4" | – | HOSE BIBB, SPEAKMAN MODEL No. SC-5911, FOR CLEANING SOLUTION DISPENSING SYSTEM. |
| FD-1 | FLOOR DRAIN | AS NOTED ON PLANS | | | | "J.R. SMITH" SERIES 2005, DUCCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, TRAP PRIMER CONNECTION, VANDAL RESISTANT SCREWS AND STAINLESS STEEL STRAINER HEAD. |
| FD-2 | SHOWER DRAIN | AS NOTED ON PLANS | | | | "J.R. SMITH" SERIES 2005, DUCCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, VANDAL RESISTANT SCREWS AND STAINLESS STEEL STRAINER HEAD. |
| SA | SHOCK ARRESTERS | AS NOTED ON PLANS | | | | "SIOUX CHIEF MG." HYDRA-RESTER COPPER TUBE CONSTRUCTION WITH DOUBLE O-RING PISTON, FACTORY CHARGED TO 60 PSI, PDI WH-201 CERTIFIED. REFER TO PDI INSTITUTE FOR SIZING METHOD ACCORDING TO THE NUMBER OF FIXTURE UNITS. |
| IMC | ICE MAKER CONNECTION BOX | AS NOTED ON PLANS | | | | GUY GRAY MAUNFACTURING, CO. MODEL No. BIM-875, RECESSED IN WALL. |
| FP-1 | FLOOR PEDESTAL | AS NOTED ON PLANS | | | | AMICO 12"x10"x20" FLOOR PEDESTAL. PROVIDE WITH FOUR DUPLEX EMERGENCY ELECTRICAL RECEPTICALS AND GAS OUTLETS PER P-3001. COORDINATE WITH PHILLIPS EQUIPMENT AND ARCHITECTURAL PLANS FOR EXACT LOCATION. |
| TP-1 | TRAP PRIMER VALVE | AS NOTED ON PLANS | | | | PRECISION PLUMBING PRODUCTS PRIME-RITE SERIES PT ELECTRONIC TRAP PRIMING MANIFOLD ELEC. CHAR.: 120/1 |

GENERAL NOTES:
1. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
2. ALL P-TRAPS SHALL HAVE INTEGRAL CLEANOUT PLUGS.
3. ALL PLUMBING FIXTURES MUST CONFORM TO CURRENT "ADA" REQUIREMENTS FOR PERFORMANCE AND ACCESSIBILITY AS REQUIRED.
4. ALL VITREOUS CHINA FIXTURES TO BE WHITE ENAMELED.
5. ALL EXPOSED PIPING TO BE CHROME PLATTED.
6. PROVIDE AND INSTALL J.R. SMITH #0710 CONCEALED ARM SUPPORT FOR ALL WALL HUNG LAVATORIES.

## PLUMBING SYMBOLS

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

| SYMBOL | DESCRIPTION |
|---|---|
| —— - —— | DOMESTIC COLD WATER |
| —— – – —— | DOMESTIC HOT WATER (120°F UNLESS OTHERWISE NOTED) |
| —— – – – – —— | DOMESTIC HOT WATER RETURN (120°F UNLESS OTHERWISE NOTED) |
| ——NPW—— | NON-POTABLE WATER |
| ——TP—— | TRAP PRIMER LINE (1/2") |
| ——TW—— | TEMPERED WATER |
| | COLD OR HOT REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (R.P.P.B.P.) |
| —— EX —— | EXISTING PIPING TO REMAIN |
| —//—X—X— | EXISTING PIPING TO BE REMOVED |
| —— —//— —— | PIPING TO BE ELECTRICALLY HEAT TRACED |
| ——SS—— | SANITARY SEWER PIPING (SOIL OR WASTE) |
| —— – – – —— | SANITARY VENT PIPING |
| ——SSD—— | SUB-SOIL DRAIN PIPING, FOOTING DRAIN PIPING |
| —— AW —— | ACID WASTE PIPING |
| —— AV —— | ACID VENT PIPING |
| ——I.W.—— | INDIRECT WASTE |
| ——SED—— | SEWAGE EJECTOR DISCHARGE PIPING (PUMPED SANITARY) |
| —— CD —— | CONDENSATE DRAIN PIPING |
| ——DPD—— | DRIP PAN DRAIN PIPING |
| | CONNECT NEW TO EXISTING |
| —— SD —— | STORM DRAIN PIPING (SD) |
| —— OD —— | STORM OVERFLOW DRAIN PIPING (OD) |
| ——SPD—— | SUMP PUMP DISCHARGE PIPING (PUMPED STORM WATER) |
| —— G —— | NATURAL GAS PIPING |
| —— CA —— | COMPRESSED AIR PIPING |
| —— V —— | VACUUM PIPING |
| ——ATV—— | ATMOSPHERIC VENT PIPING (STEAM OR HOT VAPOR) |
| —— F —— | FIRE PROTECTION (STANDPIPE, SPRINKLER, SERVICE) |
| ——DFS—— | DRY FIRE STANDPIPE PIPING |
| —— SP —— | SPRINKLER PIPING (SPRK.) |
| ——SDR—— | SPRINKLER DRAIN RISER PIPING |
| ——DSP—— | DRY SPRINKLER PIPING |
| ——PASP—— | PRE-ACTION SPRINKLER PIPING |
| ——EPW—— | EMERGENCY POTABLE WATER |
| —— FOS —— | FUEL OIL SUPPLY |
| —— FOR —— | FUEL OIL RETURN |
| | GATE VALVE |
| | BUTTERFLY VALVE |
| | BALL VALVE |
| | GLOBE VALVE |
| | TEMPERATURE AND PRESSURE RELIEF VALVE |
| | GAS COCK / PLUG VALVE |
| | SOLENOID VALVE |
| | PRESSURE REGULATION VALVE (PRV) |
| AQ 2,5 | AQUASTAT |
| | CHECK VALVE |
| | CHECK VALVE WITH AUTOMATIC BALL DRIP |
| | BACK WATER VALVE |
| | GAS PRESSURE REGULATOR VALVE |
| | BALANCING VALVE |
| | STRAINER WITH BLOW-OFF VALVE |
| | STRAINER |
| | HYDRAULIC SHOCK ARRESTOR (SA) |
| V | VACCUUM BREAKER (VB) |
| | FLOOR DRAIN W/ P-TRAP |
| | HUB DRAIN (ALL TYPES) (SPECIFY) |
| | FLOOR DRAIN (ALL TYPES) (SPECIFY) |

| SYMBOL | DESCRIPTION |
|---|---|
| CO | DOUBLE CLEANOUT, 2-WAY CLEANOUT (GRADE) (D.C.O.) |
| | GAUGE COCK |
| | PRESSURE GAUGE WITH GAUGE COCK |
| | THERMOMETER WITH SHUT-OFF COCK |
| | HOSE BIBB (H.C.) OR FREEZE PROOF WALL HYDRANT (FPWH) |
| | RECESSED BOX FREEZE PROOF WALL HYDRANT |
| | YARD HYDRANT |
| | SLEEVE THRU WALL |
| | EXPANSION LOOP |
| | ANCHOR |
| FCO GCO | FLOOR CLEANOUT OR GRADE CLEANOUT |
| WCO | WALL CLEANOUT |
| CO CO | CLEANOUT PLUG |
| | OS & Y VALVE SUPERVISED (HORIZ. POSITION/VERT. POSITION) |
| | INDICATING BUTTERFLY VALVE SUPERVISED (HORIZ. POSITION/VERT. POSITION) |
| FCA | SPRINKLER SYSTEM FLOOR CONTROL ASSEMBLY |
| | DOUBLE CHECK VALVE ASSEMBLY (D.C.V.A.) WITH OS & Y VALVES SUPERVISED |
| | FLOW SWITCH |
| | FIRE HOSE VALVE |
| | FIRE HOSE CABINET (SURFACE MOUNTED) |
| | FIRE HOSE CABINET (RECESSED) |
| | 2-WAY SIAMESE FIRE DEPARTMENT CONNECTION |
| | DIRECTION OF SLOPE |
| | DIRECTION OF FLOW |
| | CAP OUTLET OR PLUGGED OUTLET |
| —— OX —— | MEDICAL OXYGEN PIPING |
| —— MA —— | MEDICAL AIR PIPING |
| —— MV —— | MEDICAL VACUUM PIPING |
| ——WAG—— | WASTE ANESTHERIC GAS EVACUATION |
| —— N —— | MEDICAL NITROGEN PIPING |
| —— $N_2O$ —— | MEDICAL NITROUS OXIDE PIPING |
| —— $CO_2$ —— | MEDICAL CARBON DIOXIDE PIPING |
| | MASTER ALARM SENSOR |
| | LOCAL ALARM SENSOR |
| | MEDICAL GAS PIPING DROPS IN WALL FULL SIZE |

PLUMBING ABBREVIATIONS

| | | | |
|---|---|---|---|
| ABV | AUTOMATIC BALANCING VALVE | MH | MANHOLE |
| AFF | ABOVE FINISH FLOOR | NPW | NON-POTABLE/DOWNSTREAM OF A BACKFLOW PREVENTER |
| AFG | ABOVE FINISH GRADE | | |
| A/C | ABOVE HUNG CEILING | NC | NORMALLY CLOSED |
| AP | ACCESS PANEL OR DOOR | PD | PLANTER DRAIN |
| AC | AIR CHAMBER | PRV | PRESSURE REDUCING VALVE |
| AD | AREA DRAIN | TP | TRAP PRIMER |
| BT | BATHTUB | VTR | VENT THROUGH ROOF |
| BFF | BELOW FINISH FLOOR | YCO | YARD CLEANOUT |
| B/F | BELOW FLOOR | | |
| B/G | BELOW GRADE | | |
| DS | DOWNSPOUT | | |
| DF | DRINKING FOUNTAIN | | |
| FRS | FLUSH RIM SINK | | |
| GC | GENERAL CONTRACTOR | | |
| GCO | GRADE CLEANOUT | | |
| INV | INVERT | | |
| I.E. | INVERT ELEVATION | | |

## MEP SYSTEM COORDINATION SCHEDULE

| SYSTEM | FURNISHED BY | INSTALLED BY | POWER WIRING BY | CONTROL OR SUPERVISION WIRING BY |
|---|---|---|---|---|
| LIFE SAFETY SYSTEM | DIV 27 | DIV 27 | DIV 26 | DIV 27 |
| SMOKE DAMPER/ACTUATOR | DIV 23 | DIV 23 | DIV 26 | DIV 27 |
| FIRE/SMOKE DAMPER/ ACTUATOR | DIV 23 | DIV 23 | DIV 26 | DIV 27 |
| DUCT SMOKE DETECTOR | DIV 27 | DIV 26 | --- | DIV 27 |
| NURSE CALL/ FIRE ALARM INTERFACE | DIV 27 | DIV 27 | --- | DIV 27 |
| MEDICAL GAS ALARM | DIV 22 | DIV 22 | DIV 26 | DIV 22 |
| MOTOR STARTERS (INTEGRAL TO EQUIP.) | DIV 23 | N/A | DIV 26 | DIV 23 |
| MOTOR STARTERS (NON-INTEGRAL) | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| COMB. MOTOR STARTER/DISCONNECT (INTEGRAL TO EQUIP.) | DIV 23 | N/A | DIV 26 | DIV 23 |
| COMB. MOTOR STARTER/DISCONNECT (NON-INTEGRAL) | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| PUMPS | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| AIR HANDLERS | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| FANS | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| FAN POWERED BOXES | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| MISC. MOTORS | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| VARIABLE FREQUENCY DRIVES (VFD'S) | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| AIR HANDLING SYSTEMS | DIV 23 | DIV 26 | DIV 26 | DIV 23 |
| DISCONNECT SWITCHES (NON-INTEGRAL) | DIV 26 | DIV 26 | DIV 26 | --- |
| THIS TABLE IS PROVIDED AS A GUIDE TO THE DOCUMENT PREPARATION AND IN NO WAY INDICATES CONTRACTOR MEANS AND METHODS | | | | |

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 13 2009

09 -387421


PERKINS & WILL
10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora
South Campus
Cath Lab
Aurora, Colorado

**HCA**

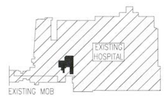
**Project # 306660005**

In association with:

Structrual
TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP
CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN
FIRST FLOOR




COLORADO REGISTERED 31031 PROFESSIONAL ENGINEER
3/26/09

Revisions

| NO. | ISSUE | DATE |
|---|---|---|

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | MM |
| Checked | MM |
| Approved | MM |

Title

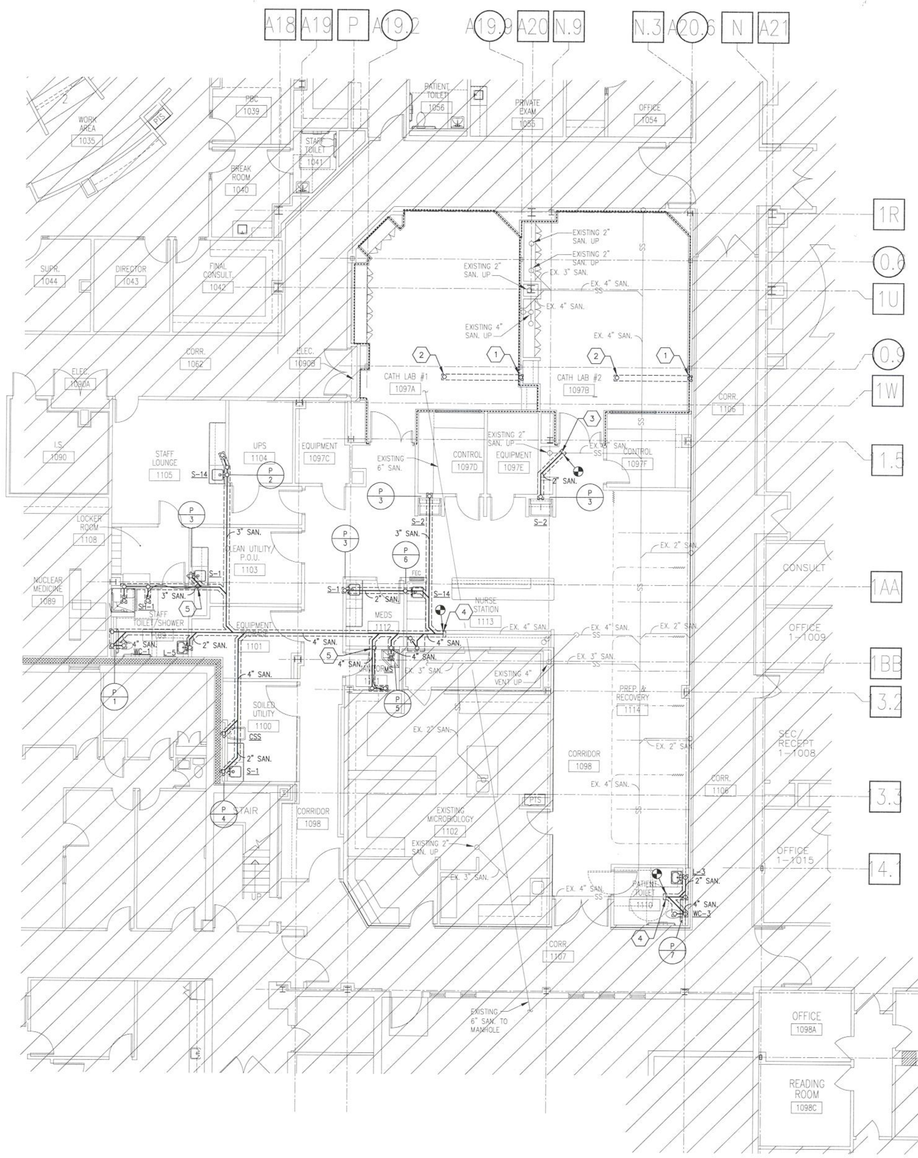
PLUMBING LEGENDS, NOTES, & SCHEDULES

Sheet

**P-0001**

Issued for Construction


Copyright © 2005 PERKINS & WILL




## 01 PLUMBING PLAN - UNDERFLOOR

SCALE: 1/8" = 1'-0"

## GENERAL NOTES

A. VERIFY EXACT LOCATION & SIZE OF EXISTING SANITARY LINES AT NEW CONNECTION POINTS.

B. COORDINATE WITH OTHER TRADES FOR EXACT LOCATION OF GAS PIPING SLEEVE.

## KEYED NOTES

1. 1/2" OXYGEN, 1/2" MEDICAL AIR, 3/4" MEDICAL VACUUM FROM ABOVE. SEE P-2001 FOR CONT.
2. 1/2" OXYGEN, 1/2" MEDICAL AIR, 3/4" MEDICAL VACUUM UP TO AMICO 12" FLOOR PEDESTAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE P-2001 FOR CONT. COORDINATE WITH PHILLIPS EQUIPMENT AND ARCHITECTURAL PLANS FOR EXACT LOCATION..
3. CONNECT TO EXISTING 3" SANITARY. VERIFY LOCATION, SIZE, AND INVERT ELEVATION BEFORE INSTALLATION OF NEW PIPING.
4. CONNECT TO EXISTING 4" SANITARY. VERIFY LOCATION, SIZE, AND INVERT ELEVATION BEFORE INSTALLATION OF NEW PIPING.
5. 1/2" CW UP TO TRAP PRIMER.

**The dry vent must rise 6" vertically above the flood level rim of the trap per 2006 IPC 905.4.**

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE: APPROVED APR 17 2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora

South Campus
Cath Lab
Aurora, Colorado

**HCA**

**Project # 306660005**

In association with:

Structrual

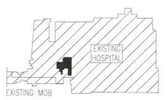
TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP

CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN

FIRST FLOOR




COLORADO LICENSED 31031 PROFESSIONAL ENGINEER
3/6/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | AB |
| Checked | MM |
| Approved | MM |

**Title**

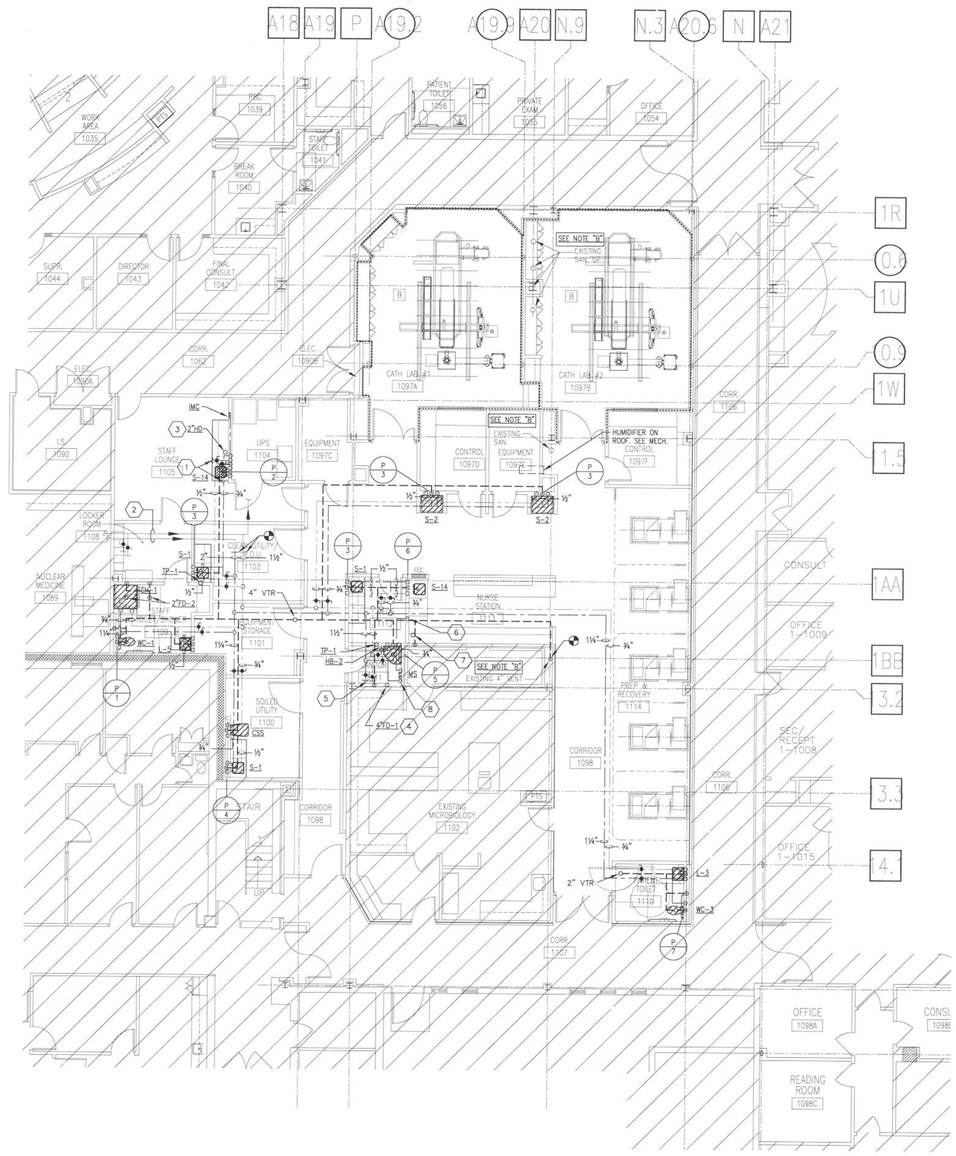
PLUMBING PLAN UNDERFLOOR

**Sheet**

**P-1001**

**Issued for Construction**


Copyright © 2005 PERKINS & WILL




## 01 PLUMBING PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

## GENERAL NOTES

A. ROUTE ALL PLUMBING PIPING AS TIGHT AS POSSIBLE TO BOTTOM OF FLOOR STRUCTURE AND FLOOR JOISTS.

B. VERIFY ALL EXISTING SANITARY PIPING ARE CAPPED. VERIFY ALL EXISTING VENTS ARE CAPPED IN CEILING FOR CONNECTION TO NEW VENT.

## KEYED NOTES

1. 1/2" COLD DOWN UP FROM RPBP UNDER SINK. 1/2" COLD WATER UP TO LIEBERT UNIT AND HUMIDIFIER UNIT, SEE MECH. PLANS.
2. EXISTING HW & CW MAINS.
3. 2" HUB DRAIN WITH FUNNEL ABOVE CASEWORK OF CABINET. SEE DETAIL SHT. P-4001.
4. 4" FD-2 FOR FUTURE RPBP LOCATION FOR MICROBIOLOGY LAB.
5. 1-1/2" HW & CW VALVED AND CAPPED FOR FUTURE CONNECTION.
6. 1/2" CW DOWN TO RPBP FOR ICE MAKER. SEE DETAIL SHEET P-4001.
7. ADD FUNNEL TO EXISTING FD. SEE DETAIL SHEET P-4001.
8. FILTERED WATER SYSTEM FOR ICE MACHINE AT N.S. 1113. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

Provide self closing or metering type of faucets in restrooms per 2006 COA 22-323

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 1 6 2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora
South Campus
Cath Lab
Aurora, Colorado

**HCA**

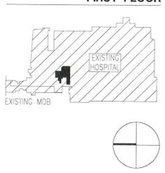
**Project # 306660005**

in association with:

Structrual
TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP
CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN
FIRST FLOOR




COLORADO LICENSED 31031 PROFESSIONAL ENGINEER
3/16/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | AB |
| Checked | MM |
| Approved | MM |

**Title**

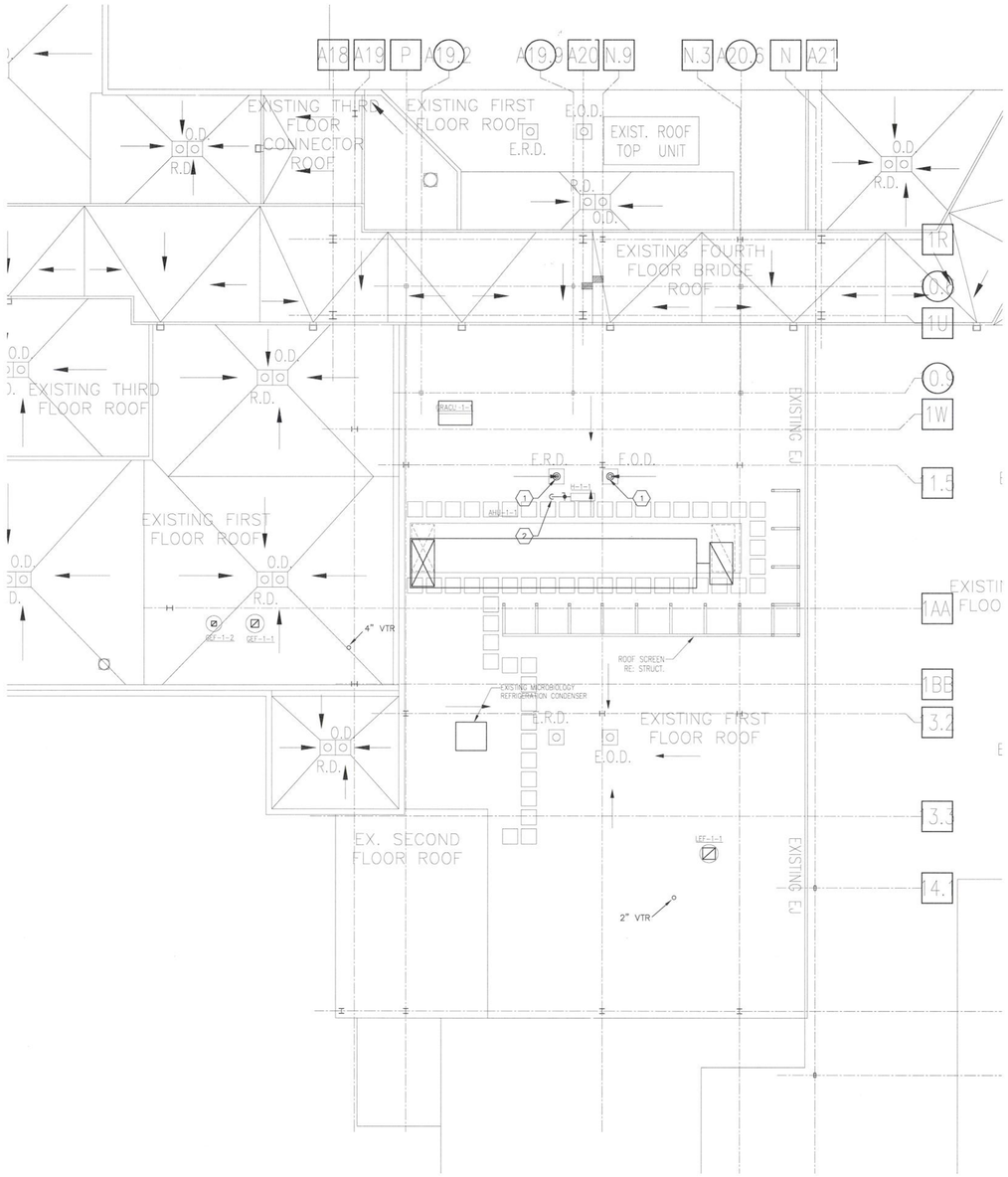
PLUMBING PLAN FIRST FLOOR

**Sheet**

**P-2001**

**Issued for Construction**


Copyright © 2005 PERKINS & WILL




## 01 PLUMBING PLAN - ROOF
SCALE: 1/8" = 1'-0"

## GENERAL NOTES

A. REFER TO SHEET P-0001 FOR GENERAL NOTES.

## LEGEND NOTES

1. REPLACE EXISTING ROOF DRAINS AFTER INSTALLATION OF NEW AHU. CONNECT TO EXISTING ROOF DRAIN PIPING BELOW ROOF.
2. 1/2" CW FROM BELOW. PROVIDE SHUT-OFF VAVLE AND SEE MECH. FOR EXACT LOCATION OF WATER CONNECTION.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 16 2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora
South Campus
Cath Lab
Aurora, Colorado

**HCA**

**Project # 306660005**

In association with:

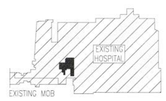
Structrual

TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP

CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN
FIRST FLOOR




COLORADO LICENSED
PROFESSIONAL ENGINEER
31031
3/6/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | AB |
| Checked | MM |
| Approved | MM |

**Title**

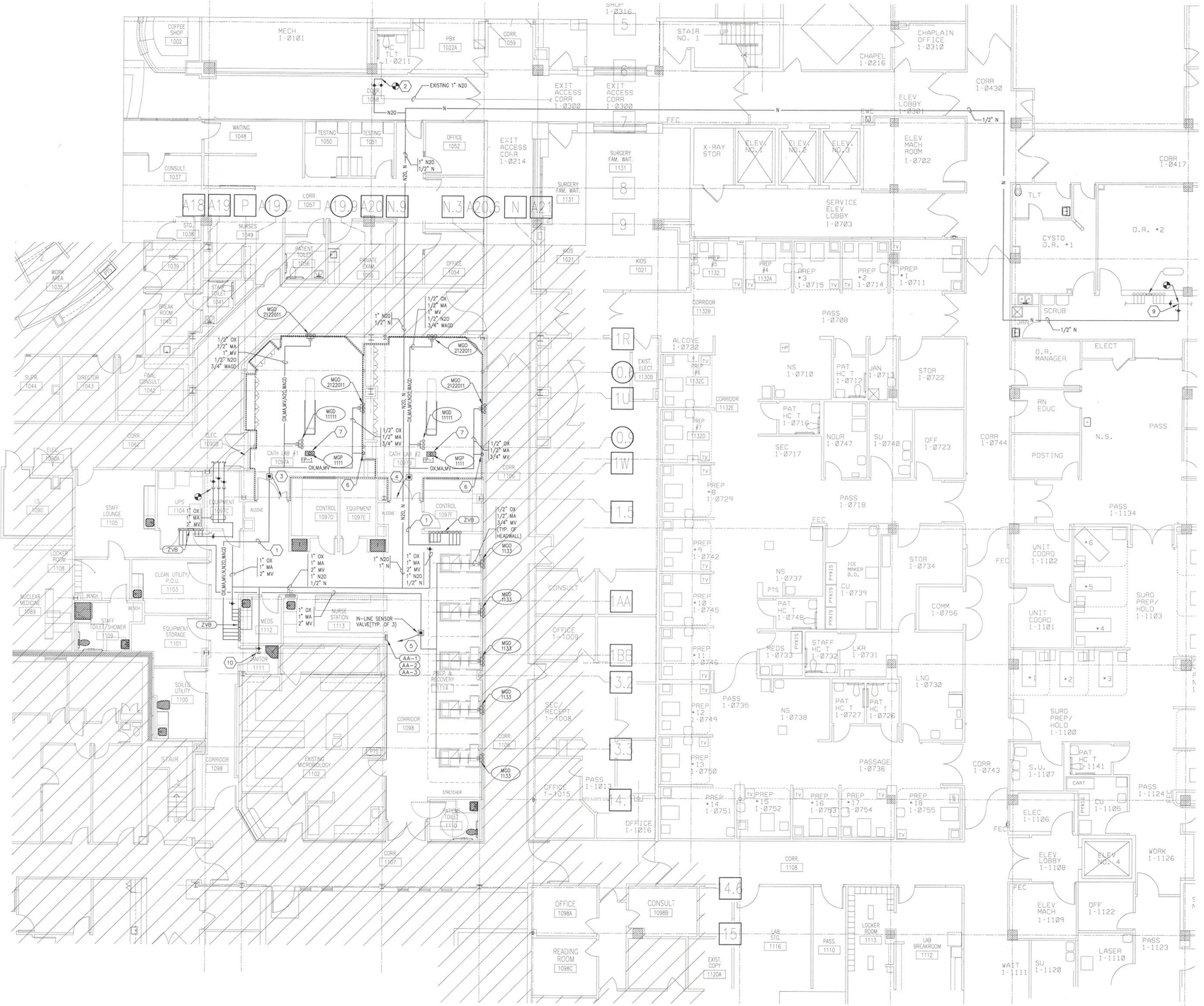
PLUMBING PLAN ROOF

**Sheet**

# P-2002

**Issued for Construction**


Copyright © 2005 PERKINS & WILL




## GENERAL NOTES

A. REFER TO P-0001 FOR GAS LEGEND AND GENERAL NOTES.

B. COORDINATE WITH OTHER TRADES FOR EXACT LOCATION OF FLOOR PEDESTAL.

## KEYED NOTES

1. 1/2" OXYGEN, 1/2" MEDICAL AIR, 1" MEDICAL VACUUM, 1/2" N, 1/2" N20, AND 3/4" WAGD.
2. NEW 1" N20 CONNECT TO EXISTING 1" N20. COORDINATE WITH FACILITY BEFORE MAKING CONNECTION.
3. NEW LOW VOLTAGE WIRING TO AA-1 .
4. NEW LOW VOLTAGE WIRING TO AA-2 .
5. NEW LOW VOLTAGE WIRING TO AA-3 .
6. 1/2" OXYGEN, 1/2" MEDICAL AIR, 3/4" MEDICAL VACUUM DROP DOWN IN WALL THRU PVC UNDERSLAB PIPING SLEEVE AND UP TO GAS FLOOR PEDESTAL SEE P-1001 FOR CONT.
7. AMICO 12" FLOOR PEDESTAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE P-1001 FOR CONT. COORDINATE WITH PHILLIPS EQUIPMENT AND ARCHITECTURAL PLANS FOR EXACT LOCATION.
8. 1/2" NITROGEN DOWN TO HOSE OUTLET. (MIN. 72.5 PSI)
9. NEW 1/2" NITROGEN. CONNECT TO EXISTING NITROGEN IN CEILING ON THE PRIMARY SUPPLY SIDE ZONE VALVE BOX. VERIFY LOCATION AND COORDINATE WITH FACILITY BEFORE MAKING CONNECTION.

## 01 MEDICAL GAS PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"

Special Inspection Required for Med gas

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 1 8/2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora

South Campus
Cath Lab
Aurora, Colorado

**HCA**

**Project # 306660005**

In association with:

Structrual

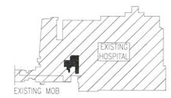
TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP

CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN

FIRST FLOOR




COLORADO LICENSED 31031 PROFESSIONAL ENGINEER 3/4/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | AB |
| Checked | MM |
| Approved | MM |

**Title**

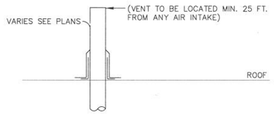
MEDICAL GAS PLAN FIRST FLOOR

**Sheet**

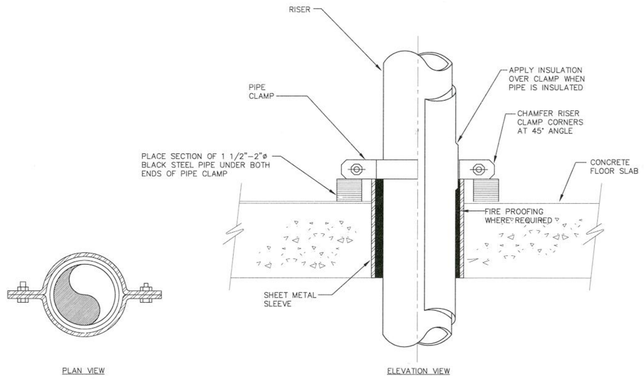
**P-3001**

**Issued for Construction**

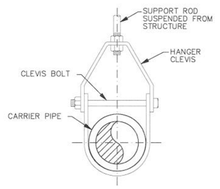
Copyright © 2005 PERKINS & WILL



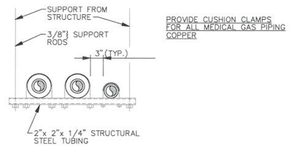

## 07 TYPICAL VENT THRU ROOF
NO SCALE



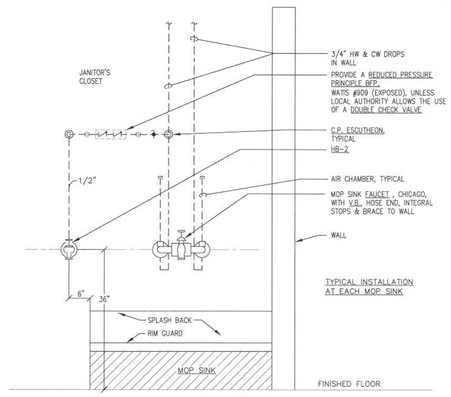

## 03 TYPICAL FLOOR PENETRATION DETAIL
NO SCALE



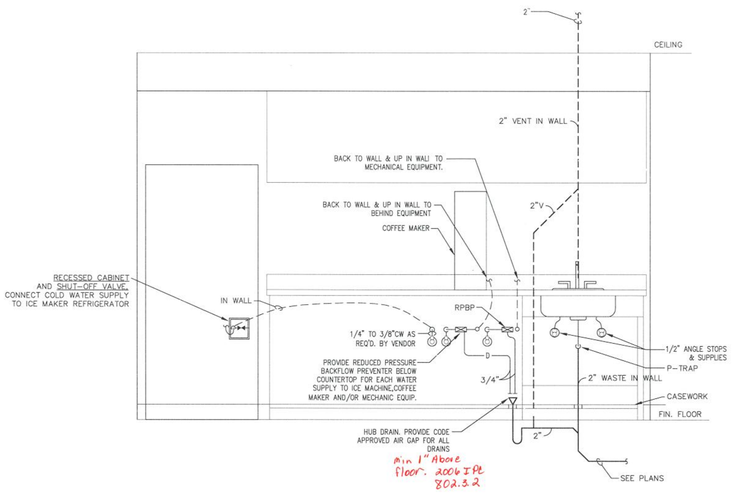

## 06 TYPICAL ADJUSTABLE CLEVIS FOR CAST IRON PIPE
NO SCALE



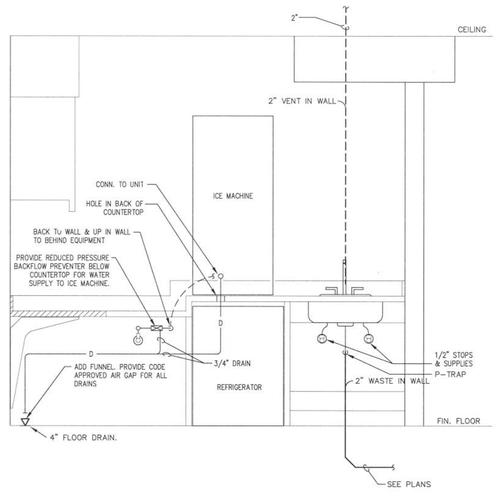

## 05 TYPICAL TRAPEZE HANGER ASSEMBLY
NO SCALE




## 02 HOSE BIBB INSTALLATION DETAIL
NO SCALE




## 04 COFFEE & ICE MAKER CONNECTIONS AT STAFF LOUNGE
NO SCALE




## 01 ICE MAKER CONNECTIONS AT N.S.
NO SCALE

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 17 2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora
South Campus
Cath Lab
Aurora, Colorado

**HCA**

**Project # 306660005**

In association with:

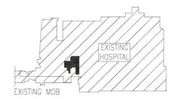
Structrual

TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP

CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN
FIRST FLOOR




COLORADO LICENSED 31031 PROFESSIONAL ENGINEER
3/16/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|
| | | |

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | MM |
| Checked | MM |
| Approved | MM |

**Title**

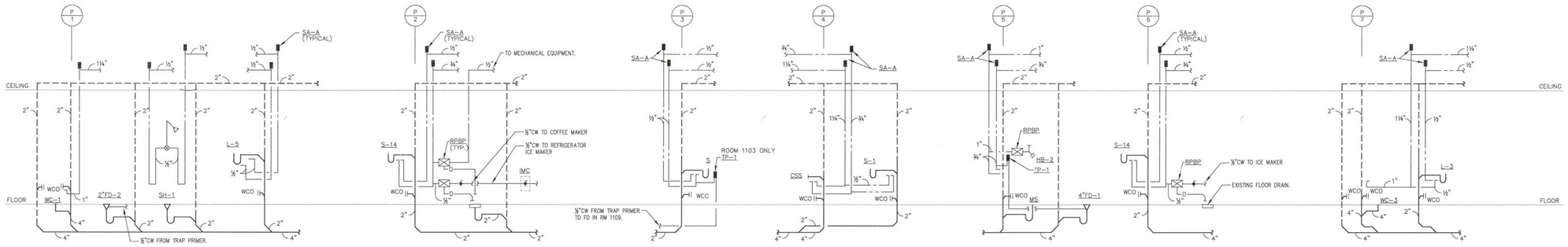
PLUMBING DETAILS

**Sheet**

# P-4001

**Issued for Construction**


Copyright © 2005 PERKINS & WILL




01 RISER DIAGRAMS - PLUMBING
NO SCALE

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED APR 16 2009

09 -387421


PERKINS & WILL

10100 North Central Expressway, Suite 300
Dallas, Texas 75231, USA
214.283.8700 Fax: 214.283.8701
www.perkinswill.com


# Medical Center of Aurora

South Campus
Cath Lab
Aurora, Colorado

**HCA**

**Project # 306660005**

in association with:

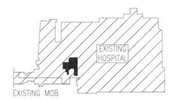
Structrual

TRC International, Ltd.
13800 MONTFORT DRIVE, SUITE 145
DALLAS, TX 75240
T: 972.991.1188
F: 972.991.1192

MEP

CCRD Partners
8301 E. PRENTICE AVENUE, SUITE 200
GREENWOOD VILLAGE, CO 80111
T: 303.694.4755
F: 303.694.5125

## KEY PLAN
FIRST FLOOR




COLORADO LICENSED
31031
PROFESSIONAL ENGINEER
3/6/09

**Revisions**

| NO. | ISSUE | DATE |
|---|---|---|
| | | |

**Sheet Information**

| | |
|---|---|
| Date | 03-06-2009 |
| Job Number | 142542.000 |
| Drawn | MM |
| Checked | MM |
| Approved | MM |

**Title**

PLUMBING
RISER DIAGRAMS

**Sheet**

**P-5001**

**Issued for Construction**


Copyright © 2005 PERKINS & WILL