

FIRE / SMOKE BARRIER DESIGNATIONS	
THE SYMBOLS SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.	
ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.	
1 HOUR FIRE BARRIER	-----
2 HOUR FIRE BARRIER	-----
SMOKE BARRIER	-----

- PLUMBING DEMOLITION NOTES:**
- THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY PIPE OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. ACCESSIBILITY OF EQUIPMENT AND SYSTEMS IS NOT SHOWN NOR SHOULD IT BE INFERRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING SYSTEM DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK.
 - CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PENETRATIONS CREATED BY REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. TO MATCH EXISTING. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PATCH TO MATCH ORIGINAL CONSTRUCTION. VERIFY ALTERNATIVE OR SPECIAL REPAIR METHODS WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING SPRINKLER PIPING, PLUMBING PIPING, HVAC PIPING, AND DUCTWORK NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
 - WHEN WORK MUST BE PERFORMED ON OPERATING EQUIPMENT, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
 - EXTEND EXISTING INSTALLATIONS USING MATERIAL AND METHODS COMPATIBLE WITH EXISTING MECHANICAL INSTALLATIONS, OR AS SPECIFIED FOR INTENDED SERVICE.
 - EXISTING PLUMBING SYSTEM: MAINTAIN SERVICE TO ALL PLUMBING FIXTURES UNTIL NEW PIPING IS INSTALLED. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE SHUTTING DOWN SYSTEM FOR ANY REASON. MAKE CHANGEOVER TO NEW PIPING WITH MINIMUM OUTAGE. DO NOT DISCONNECT ANY ROOF DRAINAGE PIPING UNTIL NEW PIPING IS IN PLACE AND OPERATIONAL.
 - ALL SYSTEM CHANGEOVERS BE COMPLETED IN OVERTIME, NOT DURING NORMAL WORKING HOURS.
 - REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
 - REMOVE ABANDONED PIPING TO SOURCE OF SUPPLY AND/OR MAIN LINES AND CAP OR MAKE READY FOR RECONNECTION IF SERVICE IS EXTENDED AS PART OF NEW WORK.
 - REMOVE EXPOSED ABANDONED PIPING INCLUDING ABANDONED PIPING ABOVE ACCESSIBLE CEILING FINISHES, CUT PIPING ABOVE CEILINGS, BELOW FLOORS, AND BEHIND WALLS. CAP REMAINING LINES. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
 - MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
 - MECHANICAL ITEMS REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.

- GENERAL PLUMBING NOTES:**
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS.
 - CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER.
 - CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT DIFFERENT THAN THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

DESIGN CODES:

DESCRIPTION:	YEAR:
INTERNATIONAL BUILDING CODE	2012
INTERNATIONAL MECHANICAL CODE	2012
INTERNATIONAL PLUMBING CODE	2012
INTERNATIONAL FIRE CODE	2012

CONTACT PERSONS

DESCRIPTION:	PERSON:
PROJECT MANAGER	DAVID LARSON
MECHANICAL ENGINEER	MARTY KIMBALL

PLUMBING SYMBOLS LIST

SYMBOL:	DESCRIPTION:
-----	EXISTING TO REMAIN
-----	EXISTING TO BE REMOVED
---	NEW
—AV	ACID VENT
—AW	ACID WASTE
—CW	COLD WATER - POTABLE
—DT	DRAIN TILE
—GSAN	SANITARY DRAINAGE (GREASE LADEN)
—GV	GAS REGULATOR VENT
—HW	HOT WATER - POTABLE
—HWC	HOT WATER CIRCULATING - POTABLE
—HW140	HOT WATER - POTABLE NO. INDICATES TEMP.
—HWC140	HOT WATER CIRC. - POTABLE NO. INDICATES TEMP.
—NCW	NON-POTABLE COLD WATER
—NHW	NON-POTABLE HOT WATER
—PD	PUMPED DISCHARGE
—SAN	SANITARY DRAINAGE
—SCW	SOFT COLD WATER
—SHW	SOFT HOT WATER
—ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
—STS	STORM DRAINAGE (SECONDARY)
—V	VENT
—V(ST)	VENT (STORM)
—W	SERVICE WATER - POTABLE
—	PIPE CAP
—D	PIPE DOWN
—O	PIPE UP OR UP/DOWN
—FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
---	UNDERFLOOR PIPING (LONG DASHES)
---	PITCH PIPE IN DIRECTION
▶	DIRECTION OF FLOW IN PIPE
RD-1 6(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
—	NEW CONNECTION
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—0.5	BALANCING VALVE (NO. INDICATES GPM)
—	CHECK VALVE
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	METER
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	WATER HAMMER ARRESTOR
—	EXPANSION JOINT
AD	ACCESS DOOR
AFB	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
C.C.	CIVIL CONTRACTOR
CO	CLEANOUT
CS	CLINICAL SINK
DF	DRINKING FOUNTAIN
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FW	FEMININE HYGIENE WASHER
F.P.C.	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
G.C.	GENERAL CONTRACTOR
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
H.C.	HEATING CONTRACTOR
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
MH	MANHOLE
MV	MIXING VALVE
NC	NEW CONNECTION
N.I.C.	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
P.C.	PLUMBING CONTRACTOR
RD	ROOF DRAIN
SH	SHOWER
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
SK	SINK
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FITTING
YCO	YARD CLEANOUT

Revisions:	Date
REVISED FOR BIDDING	10/27/15

CONSULTANTS:

HEALTHCARE PLANNERS: VOA ARCHITECTS
MEPPP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
CIVIL ENGINEER: JD ENGINEERING
COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

ARCHITECT:



**MICHAEL ROTH & ASSOCIATES,
ARCHITECTS & PLANNERS, INC.**

200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title

PLUMBING COVER SHEET

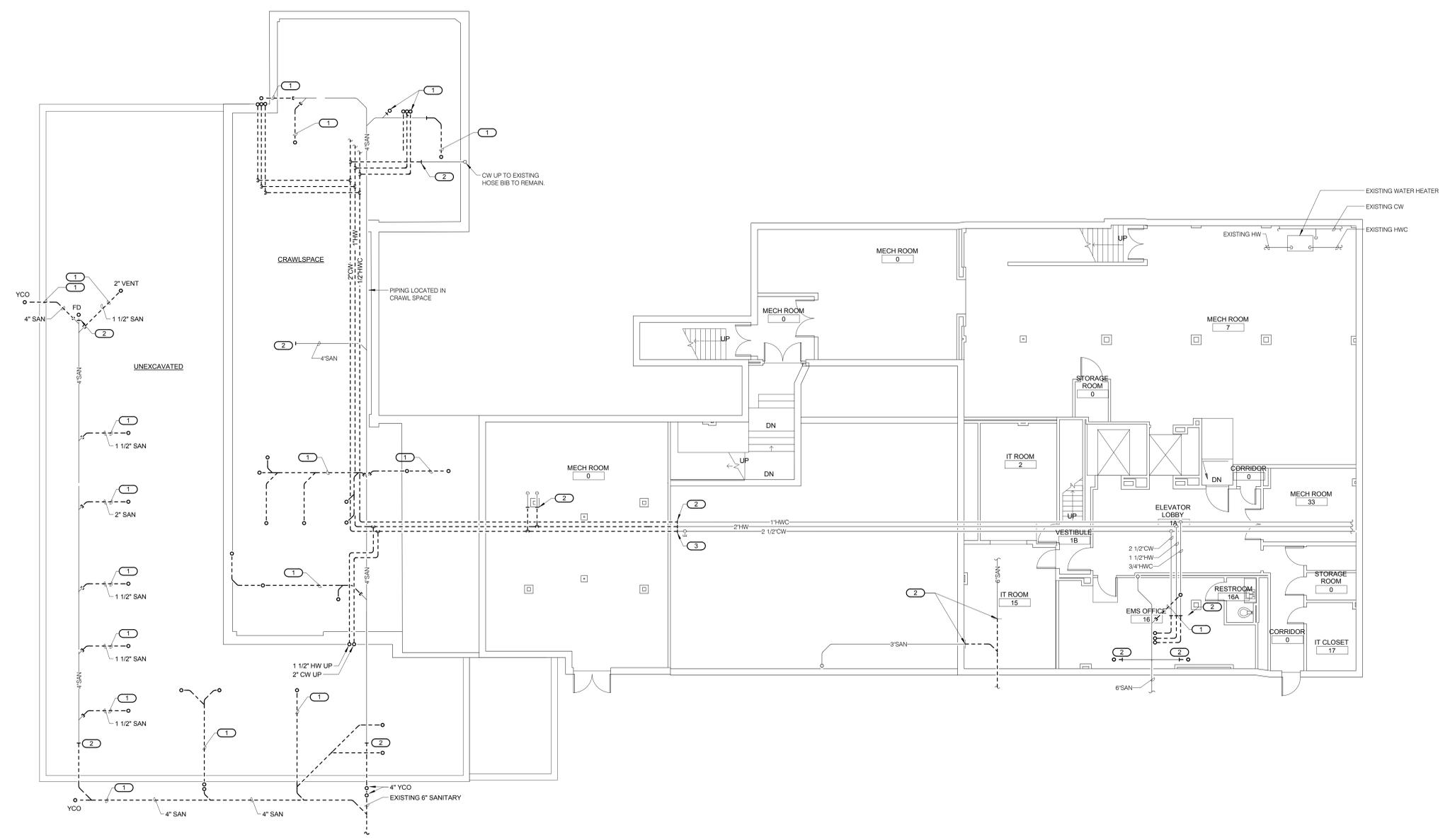
Approved: Project Director

Project Title			Project Number
RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER			549-130
Location BONHAM, TEXAS			Building Number 1
Date APRIL 13, 2015	Checked LOUHAM	Drawn CAD	Drawing Number PL001
Dwg. 86 of 142			

Office of Facilities Management



- KEYNOTES:**
1. REMOVE EXISTING PIPING AS SHOWN & CAP/PROVIDE FCO
 2. PREPARE FOR NEW CONNECTION
 3. REMOVE EXISTING PIPING AS SHOWN AND CAP.



1 BASEMENT FLOOR PLAN - PLUMBING - DEMO
1/8" = 1'-0"

REVISED FOR BIDDING	10/27/15
Revisions:	Date

CONSULTANTS:
 HEALTHCARE PLANNERS: VOA ARCHITECTS
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
 CIVIL ENGINEER: JD ENGINEERING
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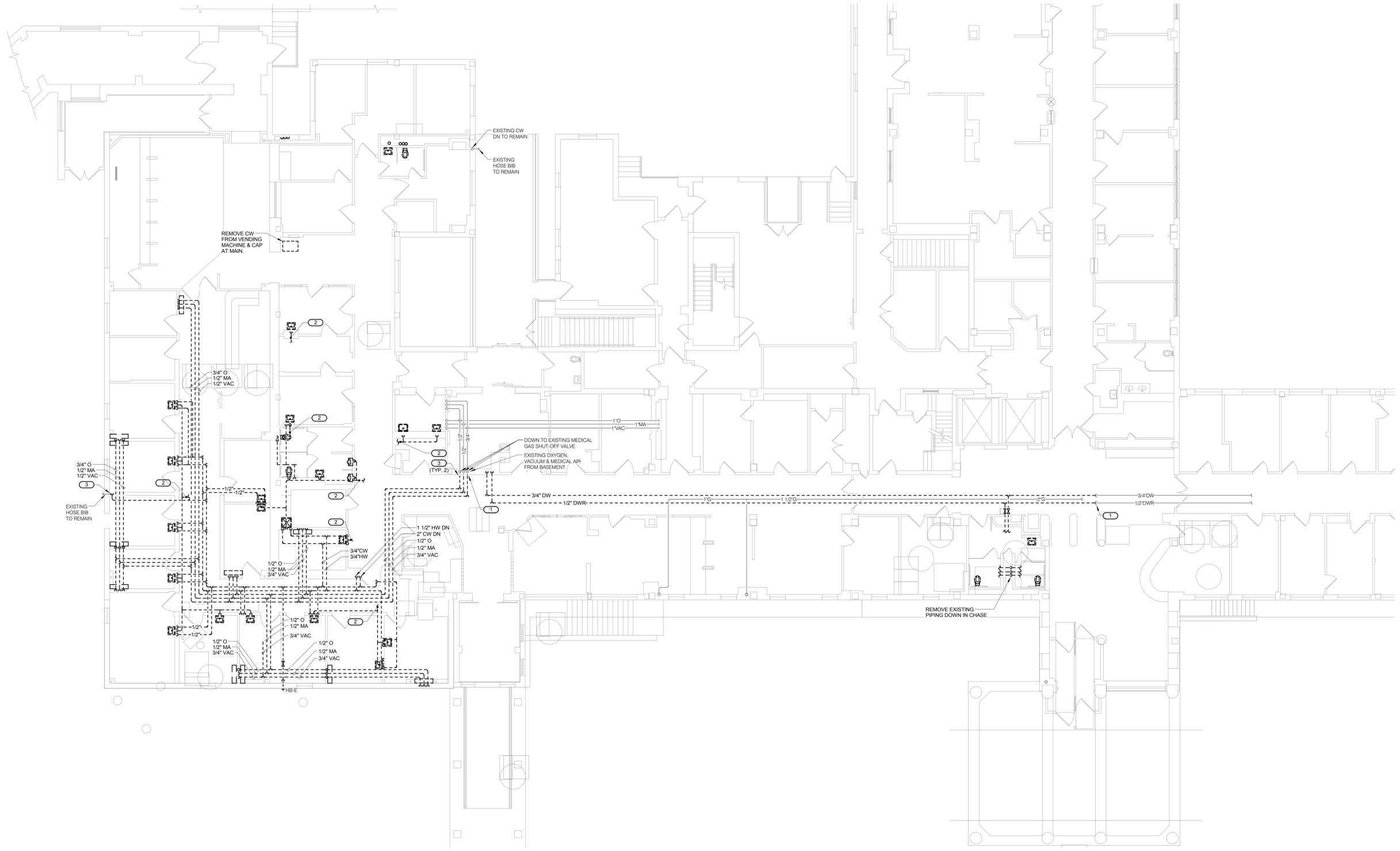
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Drawing Title
BASEMENT FLOOR PLAN - PLUMBING - DEMO
 Approved: Project Director

Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**
 Location **BONHAM, TEXAS**
 Date **APRIL 13, 2015**
 Checked **LOUHAM**
 Drawn **CAD**
 Project Number **549-130**
 Building Number **1**
 Drawing Number **PL101**
 Dwg. 87 of 142

Office of Facilities Management
 Department of Veterans Affairs

- GENERAL NOTE:**
1. DEMO EXISTING PLUMBING FIXTURES AS SHOWN. REMOVE ASSOCIATED PIPING AND CAP AT NEAREST ACTIVE MAIN.
- KEYNOTES: (#)**
1. CAP EXISTING PIPING AT THIS POINT.
 2. DEMO EXISTING VENT PIPING & MAINS UP THROUGH ROOF. VERIFY ROUTING AND THAT NO ACTIVE FIXTURES REMAIN ON SYSTEM.
 3. DEMO PIPING TO THIS POINT & PREPARE FOR NEW CONNECTION.



one inch = one foot
 one and one half inches = one foot
 three quarters inch = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

1 FIRST FLOOR PLAN - PLUMBING - DEMO
 1/8" = 1'-0"

REVISED FOR BIDDING	10/27/15
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CONSULTANTS:
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 CIVIL ENGINEER: JD ENGINEERING
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ARCHITECT:
 **MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**
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Drawing Title
FIRST FLOOR PLAN - PLUMBING - DEMO
 Approved: Project Director

Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER			Project Number 549-130
Location BONHAM, TEXAS			Building Number 1
Date APRIL 13, 2015	Checked LOUHAM	Drawn CAD	Drawing Number PL102
			Dwg. 88 of 142

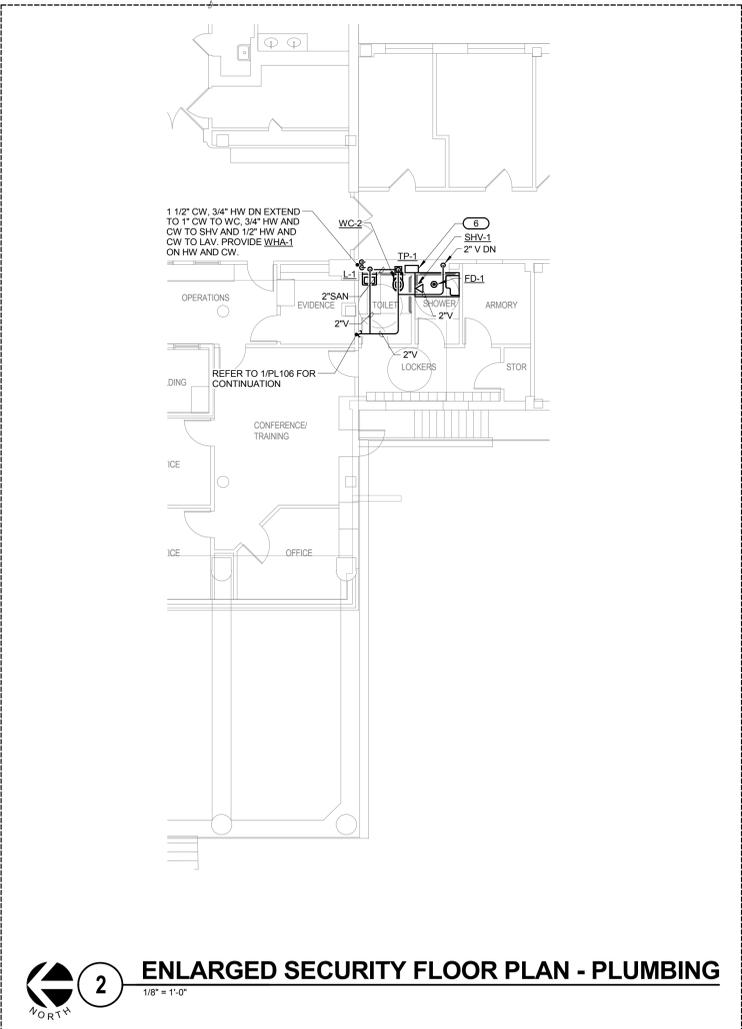
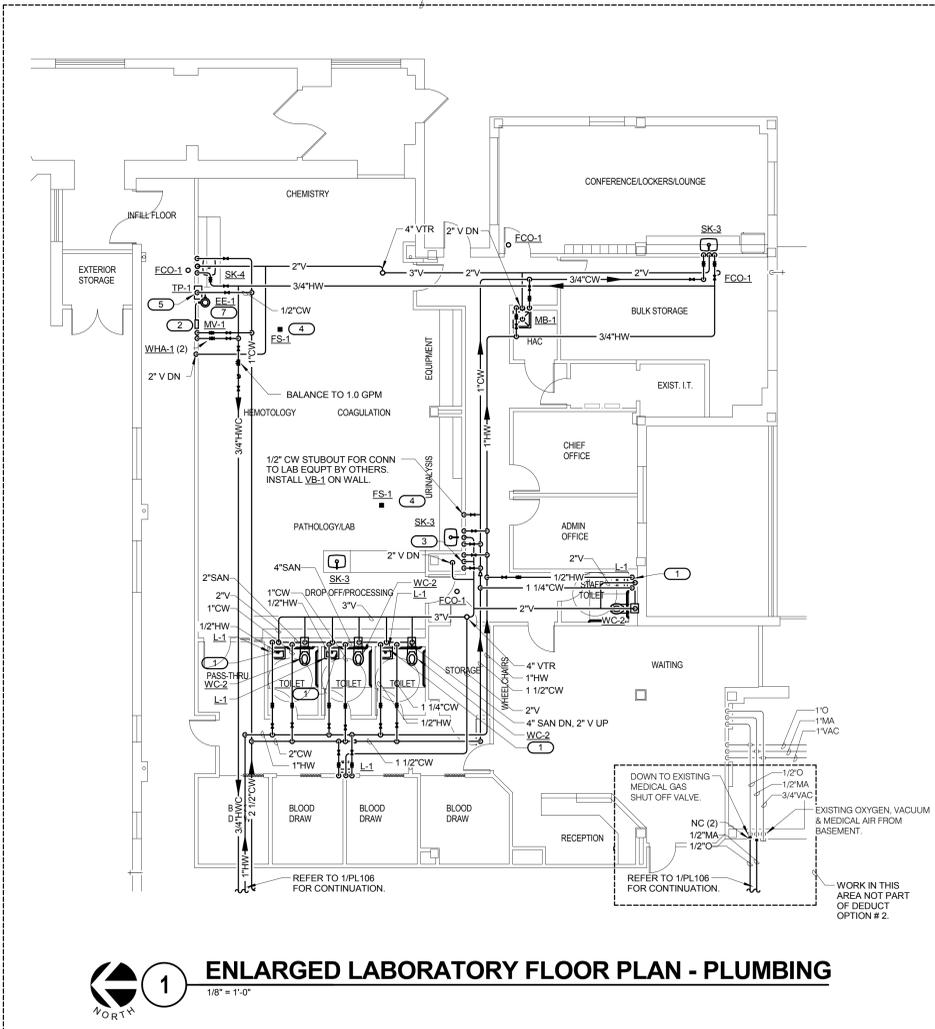
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GENERAL NOTE:
1. ALL WHA'S ARE WHA-1 UNLESS OTHERWISE NOTED.

- KEYNOTES: (#)
- 1" CW DN, EXTEND 1" CW TO WC & 1/2" CW TO LAV.
 - 1/2" HW & CW DN TO MV, EXTEND 1/2" TW TO EE, EXTEND 3/4" HW, 3/4" CW & 1 1/2" VENT IN CABINETS TO SINK, COORD ROUTING WITH ARCHITECT.
 - COORDINATE LOCATION OF FLOOR SINK WITH COUNTERS, REFER TO ARCH DWGS FOR EXACT LOCATIONS.
 - LOCATE TP-1 IN WALL, PROVIDE ACCESS PANEL, EXTEND TRAP PRIMER PIPING TO EACH FLOOR SINK IN ROOM.
 - LOCATE TP-1 IN WALL, PROVIDE ACCESS PANEL, EXTEND TRAP PRIMER PIPING TO FLOOR DRAIN, EXTEND 1 1/2" SAN & VENT TO EYE WASH FROM SINK.

DEDUCT OPTION NO. 2
DEMOLITION AS INDICATED IN THE BASE BID IS WITHIN THE SCOPE OF WORK FOR THIS ALTERNATE. EXISTING STRUCTURE TO REMAIN U.N.O.
NEW WORK: WAITING H100, RECEPTION H101, BLOOD DRAW ROOMS H102 THRU H105, CORRIDOR H106, ALCOVE H107, TOILET H108 THRU H110, STORAGE H111, CORRIDOR H112, TOILET H113, ADMIN OFFICE H114, CHIEF OFFICE H115, IT H116, HAC H117, BULK STORAGE H118, CONFERENCE H119, CORRIDORS H120 AND H121, LABORATORY H122 AND CORRIDOR G147, INCLUDING STRUCTURAL, PLUMBING WORK ASSOCIATED WITH THESE SPACES IS TO BE ELIMINATED FROM THE BASE BID, EXCEPT AS SPECIFICALLY NOTED.

DEDUCT OPTION NO. 1
AREA INDICATED TO REMAIN AS EXISTING NO DEMOLITION IS TO OCCUR IN THE SCOPE OF WORK IN AREA INDICATED.
NEW WORK: CONFERENCE F100, OPERATIONS F101, HOLDING F102, OFFICE F103, OFFICE F104, OFFICE F105, LOCKERS F106 AND EVIDENCE F111, INCLUDING PLUMBING WORK ASSOCIATED WITH THESE SPACES IS TO BE ELIMINATED FROM THE BASE BID.



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CIVIL ENGINEER: JD ENGINEERING
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Drawing Title
ENLARGED FLOOR PLAN - LABORATORY AND SECURITY - PLUMBING
 Approved: Project Director

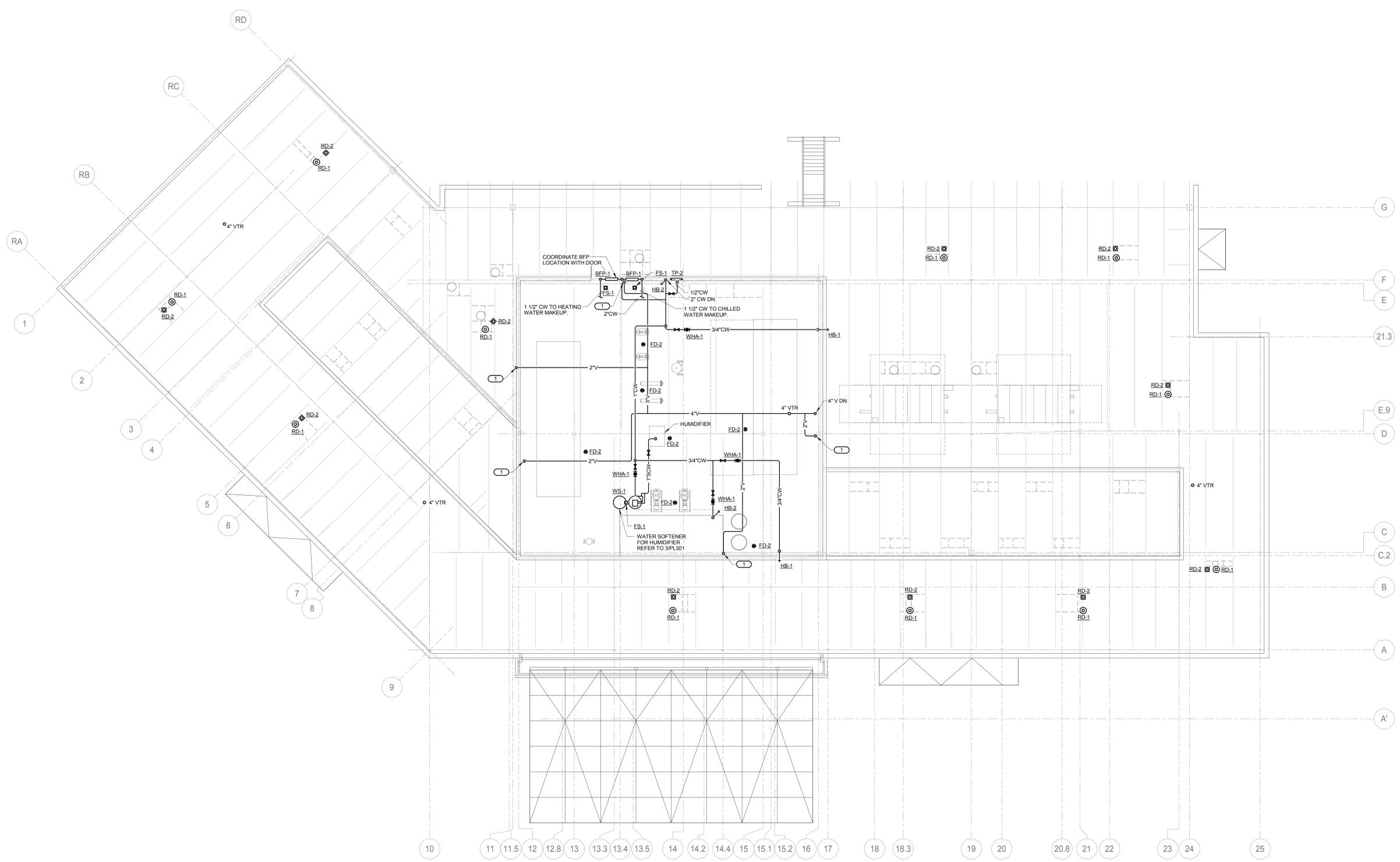
Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**
 Project Number 549-130
 Building Number 1
 Drawing Number PL107
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Office of Facilities Management

 Department of Veterans Affairs

KEYNOTES: #

- 2" VENT DN
- EXHND TRAP PRIMER PIPING TO ALL FLOOR DRAINS/FLOOR SINKS IN PENTHOUSE.



1 PENTHOUSE AND ROOF PLAN - PLUMBING
1/8" = 1'-0"

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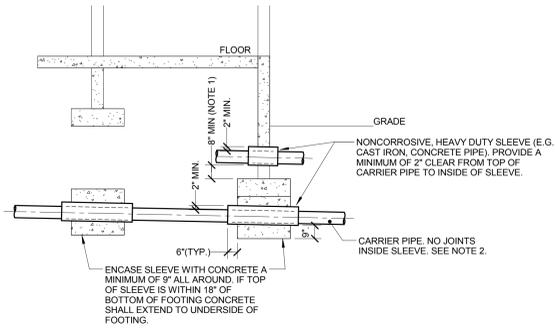
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Drawing Title
PENTHOUSE AND ROOF PLAN - PLUMBING
 Approved: Project Director

Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**
 Project Number 549-130
 Building Number 1
 Drawing Number PL108
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Office of Facilities Management

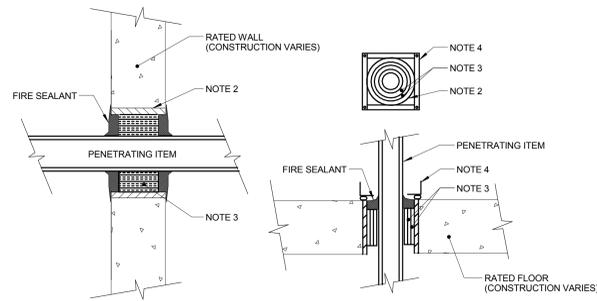
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NOTES:

- STEP FOOTING DOWN AS REQUIRED TO MAINTAIN 8\"/>

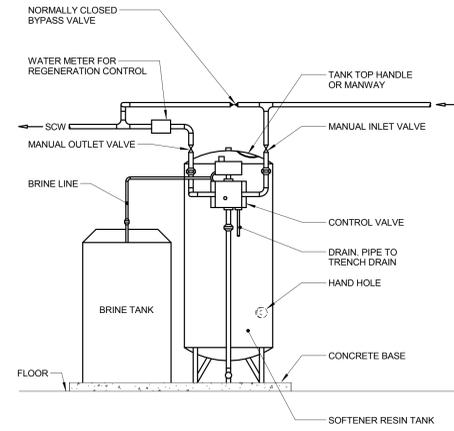
1 PIPE UNDER FOOTING DETAIL
NO SCALE



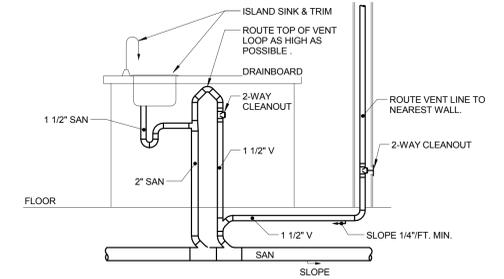
NOTES:

- THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (07 84 00) (1508B) (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
- SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C. COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
- INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
- WATER-TIGHT WELDED 1\"/>

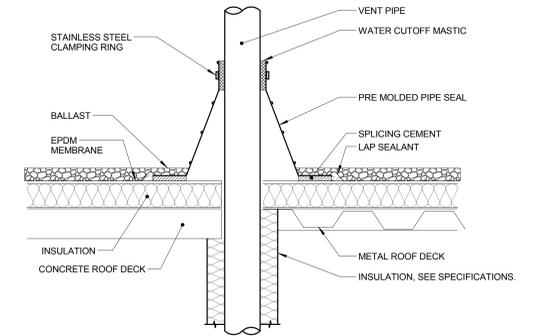
2 RATED FIRE BARRIER PENETRATION
NO SCALE



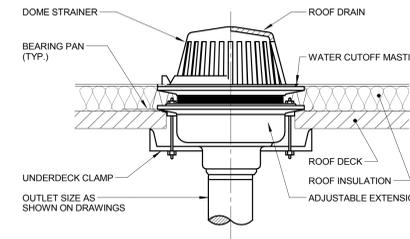
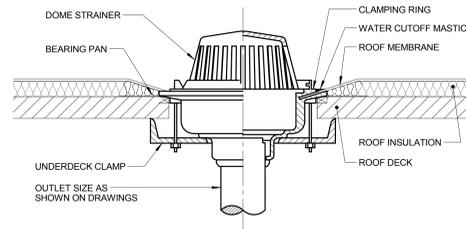
3 WATER SOFTENER DETAIL
NO SCALE



4 ISLAND SINK VENT DETAIL
NO SCALE

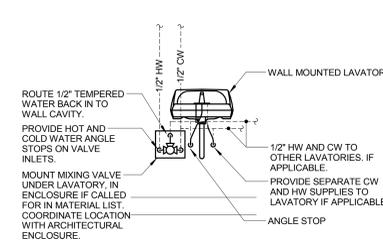
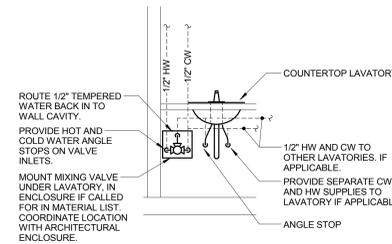


7 VENT PIPE FLASHING
NO SCALE

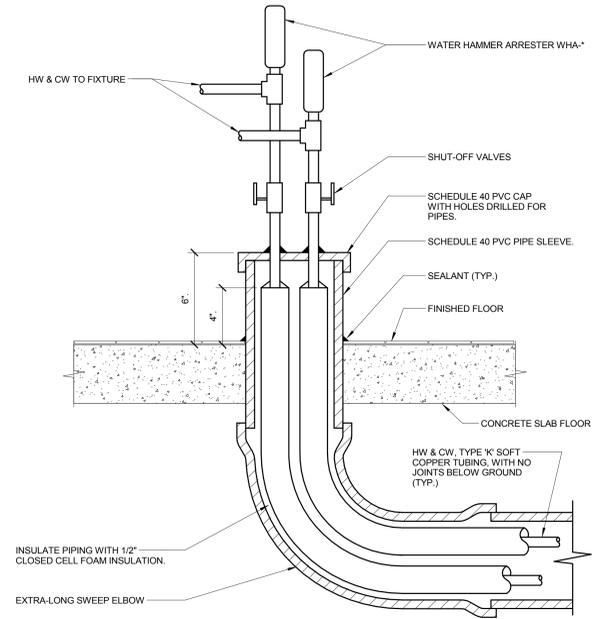


6 ROOF DRAIN DETAIL
NO SCALE
NOTE: REFER TO ARCH. ROOF PLANS FOR ADDITIONAL INSTALLATION DETAILS.

5 NOT USED
NO SCALE



8 LAVATORY/MIXING VALVE DETAIL
NO SCALE



9 UNDERGROUND TUBING TO ISLAND FIXTURES
NO SCALE

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CONSULTANTS:
 HEALTHCARE PLANNERS: VOA ARCHITECTS
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 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

ARCHITECT:

MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title
DETAILS - PLUMBING

Approved: Project Director

Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Location **BONHAM, TEXAS**

Date **APRIL 13, 2015**

Checked **LOUHAM**

Drawn **CAD**

Project Number **549-130**

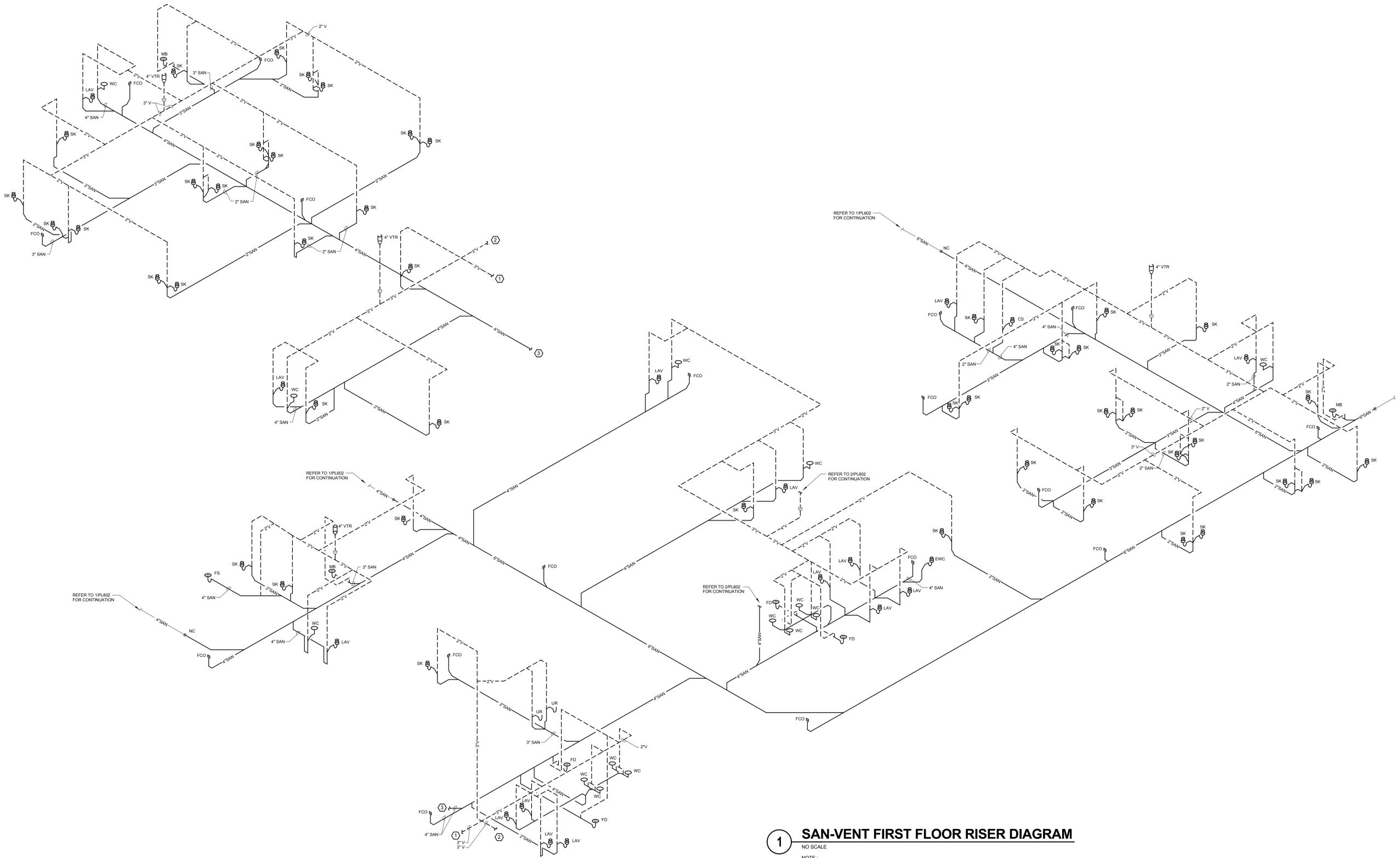
Building Number **1**

Drawing Number **PL301**

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1 SAN-VENT FIRST FLOOR RISER DIAGRAM
 NO SCALE
 NOTE: DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.

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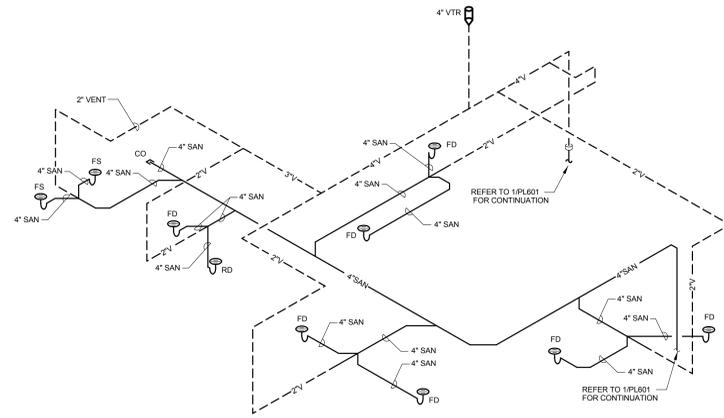
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ARCHITECT:
 **MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

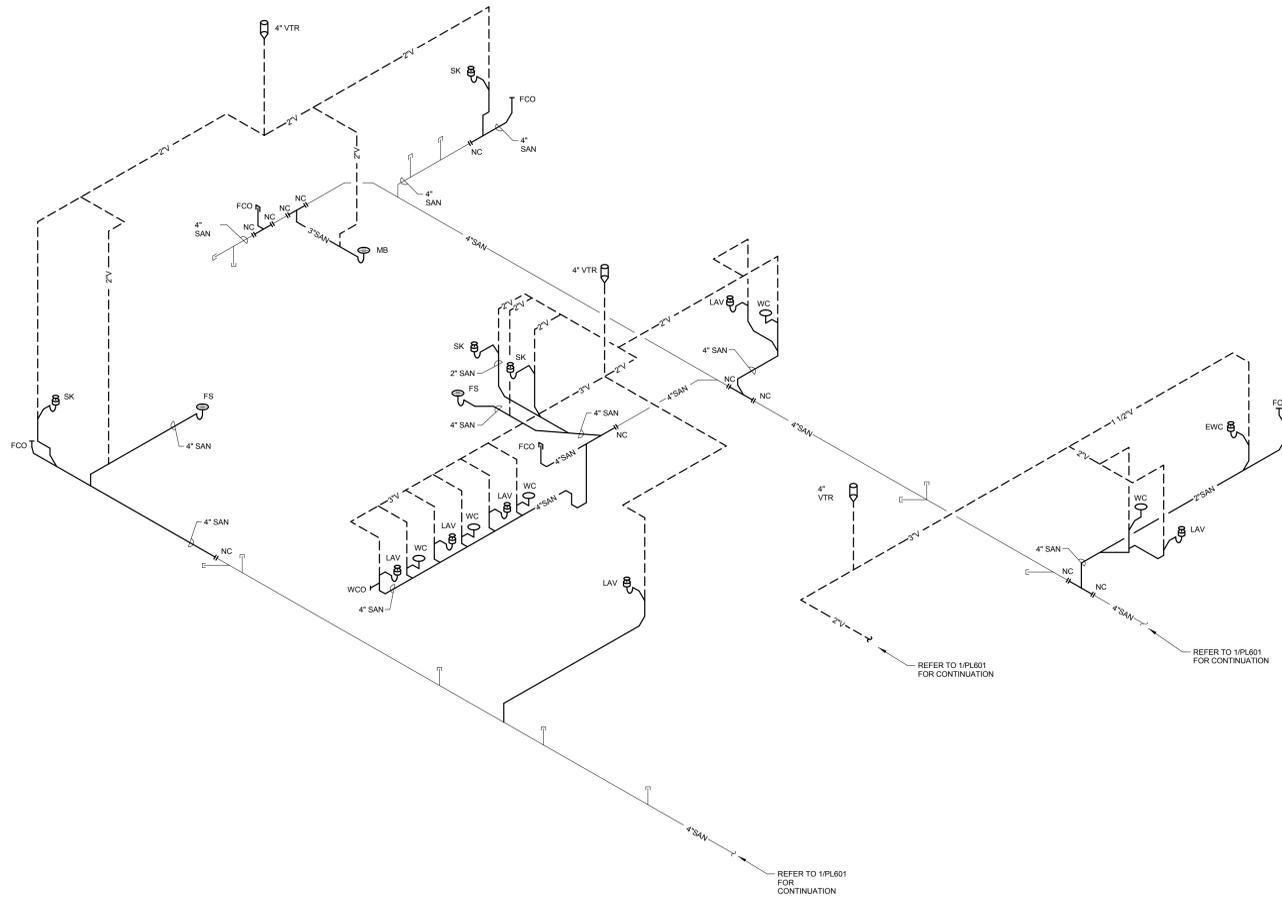
Drawing Title
SAN-VENT RISER DIAGRAM - PLUMBING
 Approved: Project Director

Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**
 Project Number **549-130**
 Building Number **1**
 Drawing Number **PL601**
 Dwg. 97 of 142

Office of Facilities Management

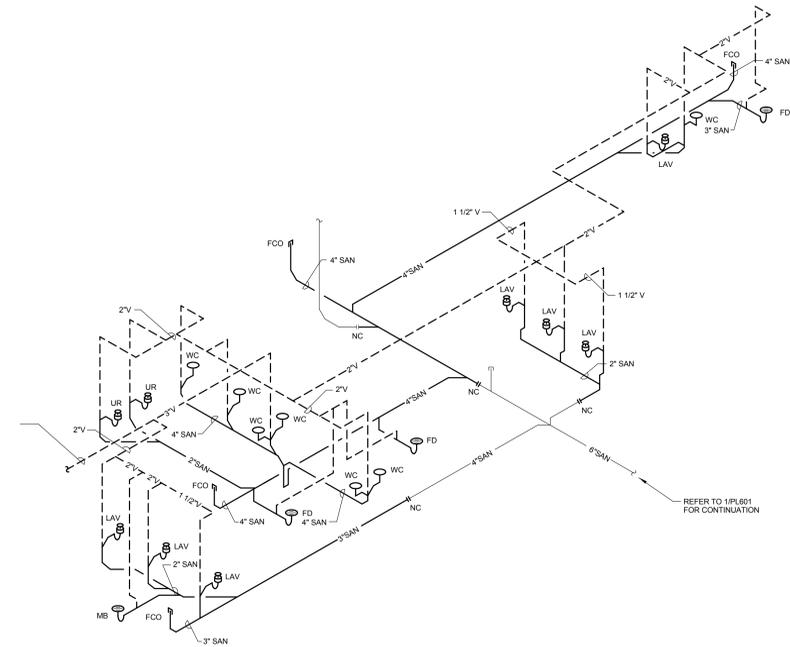



2 SAN-VENT PENTHOUSE RISER DIAGRAM
NO SCALE



1 SAN-VENT FIRST FLOOR RISER DIAGRAM
NO SCALE

NOTE:
DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.



REVISED FOR BIDDING	10/27/15
Revisions:	Date

CONSULTANTS:
 HEALTHCARE PLANNERS: VOA ARCHITECTS
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
 CIVIL ENGINEER: JD ENGINEERING
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

ARCHITECT:

MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title
SAN-VENT RISER DIAGRAM - PLUMBING

Approved: Project Director

Project Title **RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER**

Location
BONHAM, TEXAS

Date
APRIL 13, 2015

Checked
LOUHAM

Drawn
CAD

Project Number
549-130

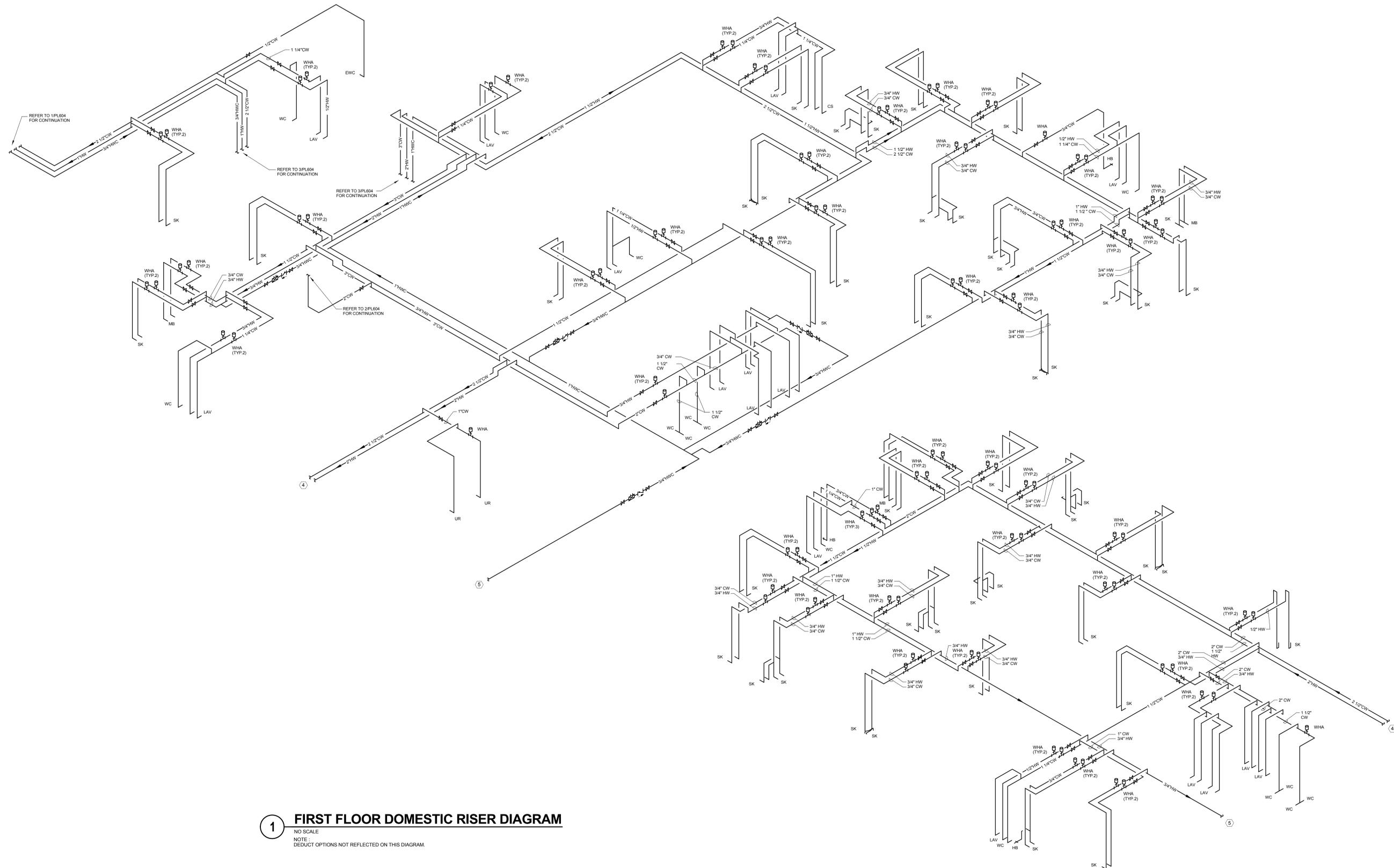
Building Number
1

Drawing Number
PL602

Dwg. 98 of 142

Office of Facilities Management





1 FIRST FLOOR DOMESTIC RISER DIAGRAM
 NO SCALE
 NOTE: DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.

REVISED FOR BIDDING	10/27/15
Revisions:	Date

CONSULTANTS:
 HEALTHCARE PLANNERS: VOA ARCHITECTS
 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
 CIVIL ENGINEER: JD ENGINEERING
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

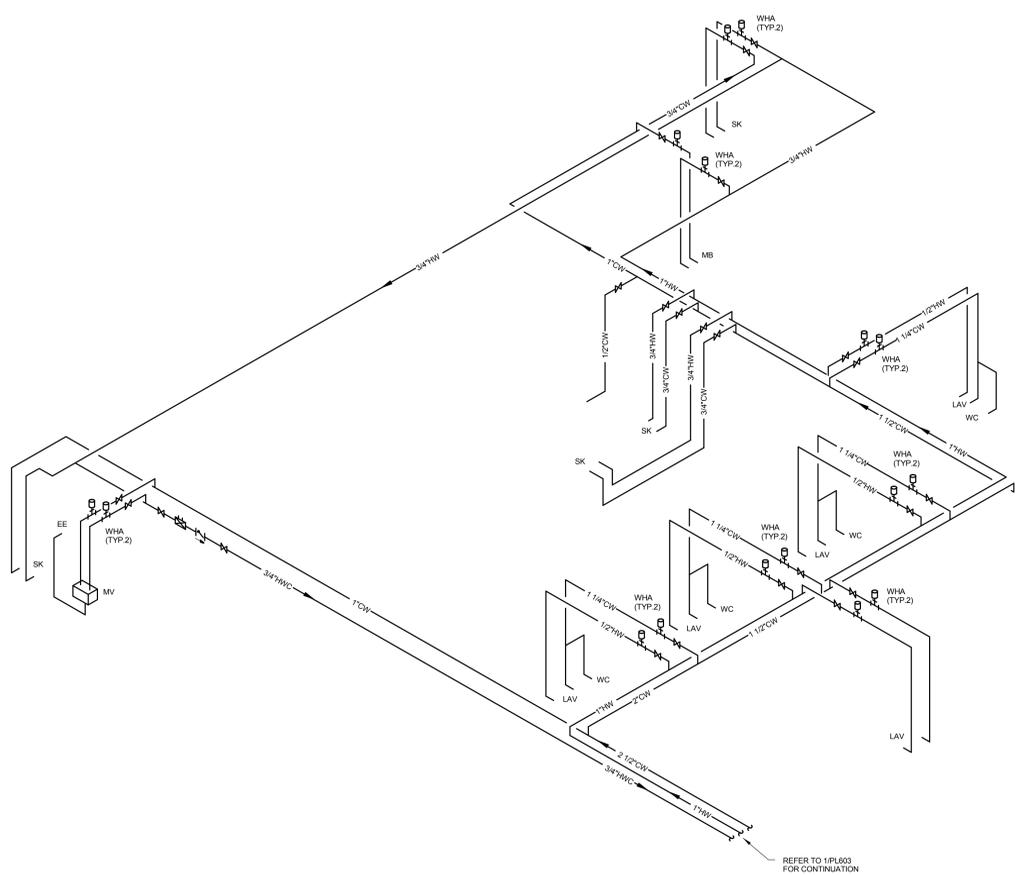
ARCHITECT:

**MICHAEL ROTH & ASSOCIATES,
 ARCHITECTS & PLANNERS, INC.**
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

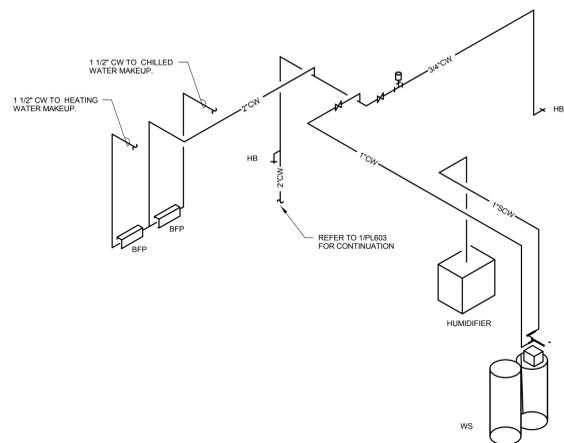
Drawing Title
 DOMESTIC RISER DIAGRAM - PLUMBING
 Approved: Project Director

Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER
Project Number 549-130
Building Number 1
Drawing Number PL603
Date APRIL 13, 2015
Checked LOUHAM
Drawn CAD
 Dwg. 99 of 142

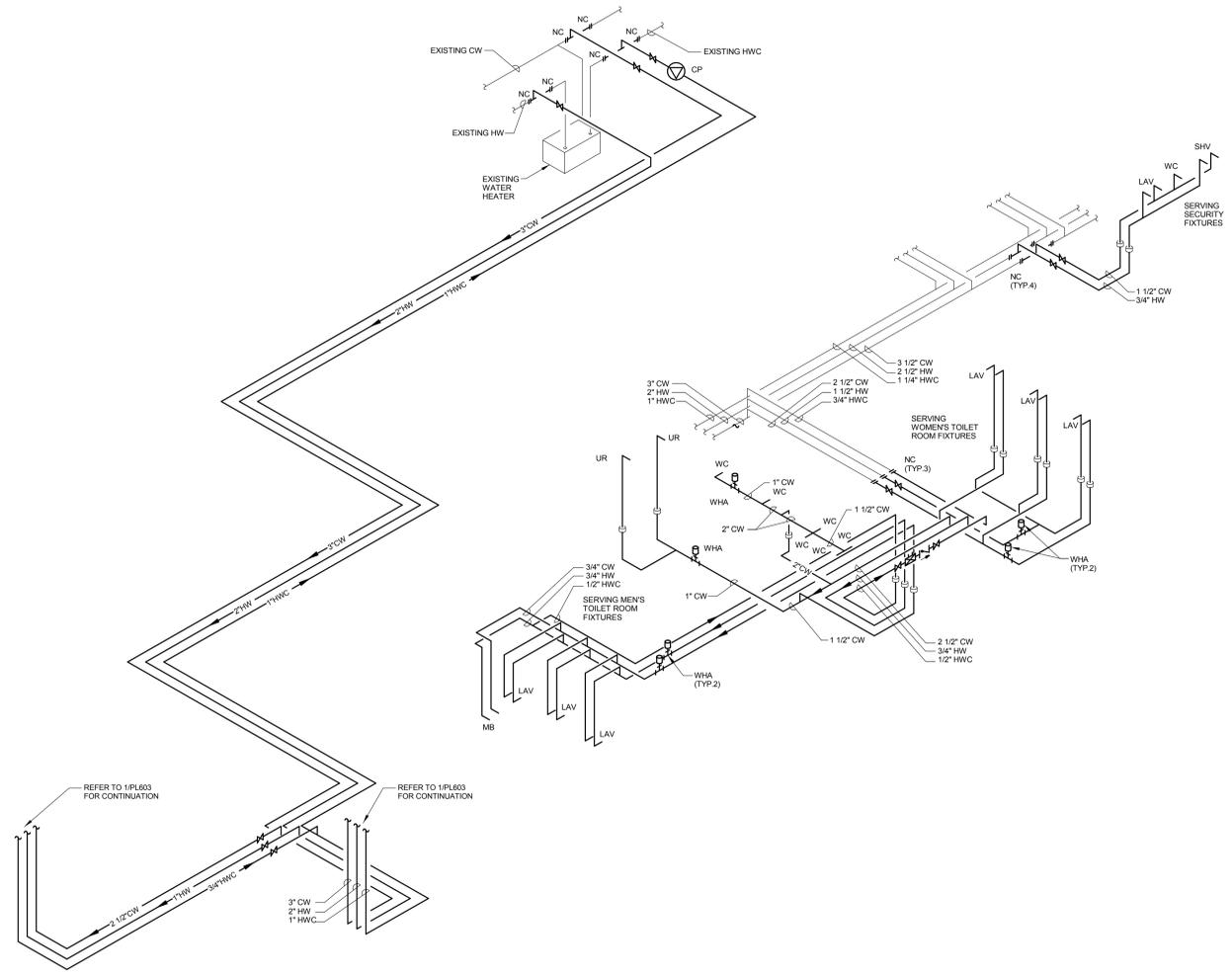
Office of Facilities Management

1 LABORATORY DOMESTIC RISER DIAGRAM
 NO SCALE
 NOTE:
 DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.



2 PENTHOUSE DOMESTIC RISER DIAGRAM
 NO SCALE



3 BASEMENT FLOOR DOMESTIC RISER DIAGRAM
 NO SCALE
 NOTE:
 DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.

REVISED FOR BIDDING	10/27/15
Revisions:	Date

CONSULTANTS:
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 MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
 CIVIL ENGINEER: JD ENGINEERING
 COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
 INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

ARCHITECT:
 **MICHAEL ROTH & ASSOCIATES, ARCHITECTS & PLANNERS, INC.**
 200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112

Drawing Title
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 Approved: Project Director

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 Project Number 549-130
 Building Number 1
 Drawing Number PL604
 Dwg. 100 of 142

Office of Facilities Management
 Department of Veterans Affairs