

PLUMBING ABBREVIATIONS	
SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AG	AIR GAP
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS
BTU	BRITISH THERMAL UNIT
CI	CAST IRON
CO	CLEANOUT
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
DN	DOWN
DWV	DRAIN WASTE VENT
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
E	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
FU	FIXTURE UNITS
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
MA	MEDICAL AIR
MS	MOP SERVICE BASIN
MV	MEDICAL VACUUM
N2O	NITROUS OXIDE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
PG	PRESSURE GAGE
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
S	SANITARY SEWER
SCFM	STANDARD CUBIC FOOT/MINUTE
SQFT	SQUARE FEET
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WAGD	WASTE ANESTHESIA GAS DISPOSAL

GENERAL PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	REDUCER OR INCREASER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	PUMP (ARROWHEAD INDICATES FLOW DIRECTION)
	MEDICAL GAS ZONE VALVE (SEE SCHEDULE)
	MEDICAL GAS OUTLET (SEE SCHEDULE)
	MEDICAL GAS ALARM PANEL (SEE SCHEDULE)
	MEDICAL AIR
	MEDICAL VACUUM
	NITROUS OXIDE
	OXYGEN
	WASTE ANESTHESIA GAS DISPOSAL

PLUMBING VALVE SYMBOLS	
SYMBOL	DESCRIPTION
	GATE VALVE (GAV)
	GLOBE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE (SCV)
	ANGLE GLOBE VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	CIRCUIT SETTER
	AUTOMATIC AIR VENT

PLUMBING PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER, COLD WATER
	DOMESTIC HOT WATER, HOT WATER
	DOMESTIC HOW WATER RETURN, HOT WATER RETURN
	SANITARY SEWER
	SANITARY SEWER, BELOW GRADE

- ### GENERAL NOTES
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO BID, FABRICATION AND INSTALLATION OF COMPONENTS.
 - DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL SIZE AND LOCATION OF EQUIPMENT, DUCT WORK AND PIPING MAY VARY DUE TO MANUFACTURER OR FIELD CONDITIONS. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE AND ACCESSIBILITY AS REQUIRED BY MANUFACTURERS.
 - INSTALLATION SHALL COMPLY WITH THE GOVERNING CODES AND REGULATIONS. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS AND GUAM BUILDING ENERGY CODE.
 - ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE LATEST NFPA-90 & 96.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
 - WORK: FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AIR CONDITIONING, VENTILATION AND PLUMBING SYSTEM AS INDICATED ON THE PLANS.
 - ACCESS PANELS IN HARD CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE MOST RECENT REVISION OF THESE PLANS AND SUBMITTALS PRIOR TO CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR FAILURE TO REVIEW AND CLARIFY ANY DISCREPANCIES. SEE ELECTRICAL PLANS FOR POWER AND CONTROL REQUIREMENTS.
 - OMISSIONS: IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE INSTALLATION. SHOULD THERE BE OMISSIONS, THE CONTACTOR SHALL NOTIFY THE ENGINEER OF SUCH (10) TEN DAYS IN ADVANCE OF THE BID OPENING SO ANY NECESSARY CORRECTIONS CAN BE MADE.
 - ALL TEMPORARY UTILITY SYSTEM SHUT OFF AND WORK SHALL BE DONE ACCORDING TO THE PHASING PLAN TO AVOID DISCONTINUITY OF SERVICES TO MATERNITY WARD.

- ### PLUMBING NOTES
- ALL PLUMBING WORK SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE, THE CONTRACT DOCUMENTS AND REGULATIONS OF THE GOVERNMENT OF GUAM.
 - CONTRACTOR SHALL COORDINATE WITH GOVERNMENT AGENCIES AND UTILITIES AS REQUIRED TO COMPLETE THE PROJECT AND SHALL PAY ALL REQUIRED FEES AND PERMITS. CONTRACTOR SHALL COORDINATE WITH G.W.A FOR REQUIRED INSPECTIONS.
 - PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
 - THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION MAY APPLY TO THIS PROJECT.
 - PIPE SIZE SHOWN ON CONNECTION SCHEDULES ARE INDIVIDUAL FIXTURE REQUIREMENTS. SIZE BRANCH WASTE AND VENT PIPING ON ACCUMULATED FIXTURE WEIGHTS PER APPLICABLE PLUMBING CODE.
 - PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC. VERIFY FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS. VERIFY ROUGH-IN REQUIREMENTS PRIOR TO INSTALLING ANY FIXTURE OR EQUIPMENT SUPPLIED BY OWNER.
 - COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ALL OTHER TRADES DRAWINGS AND CUT SHEETS. INSTALL ALL PLUMBING WORK TO AVOID INTERFERENCE MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
 - NO PIPING SYSTEM SHALL BE BURIED OR CONCEALED UNTIL INSPECTED, TESTED, AND ACCEPTED BY THE OWNER'S ENGINEER. ALL PIPING SHALL BE TESTED FOR LEAKAGE. TEST ALL PIPING PRIOR TO COVERING.
 - WATER PIPING SHALL BE COPPER ASTM B88, TYPE-K OR ASTM F877 CROSS LINKED POLYETHYLENE (PEX) FOR BELOW GRADE AND TYPE -L FOR ABOVE GRADE.
 - INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED. PROVIDE SHUT OFF VALVES AT ALL ENVELOPE PENETRATIONS. CONCEAL ALL PIPING INSIDE WALLS AND/OR ABOVE CEILINGS, UNO.
 - PROVIDE ESCHEON PLATES AND SEALANT AT ALL PIPE PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR SEALANT.
 - PROVIDE WATER HAMMER ARRESTOR FOR ALL WATER LINES LOCATED AT FIXTURES IN ACCORDANCE WITH THE PLUMBING CODE.
 - DRAIN WASTE AND VENT PIPING SHALL BE ABS ASTM D2661 OR CAST IRON PIPE ASTM A74 / CIPSI 301.
 - SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM (1/4-INCH PER FOOT), UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 - INSTALL FLOOR DRAINS FLUSH WITH FINISHED FLOOR.
 - INSTALL ALL CLEANOUTS WHERE READILY ACCESSIBLE AND PER CODE. COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC AND THE ARCHITECT PRIOR TO INSTALLATION.
 - HORIZONTAL BRANCH VENT SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE MAXIMUM FLOOD LEVEL RIM OF FIXTURE BEING SERVED. WHERE APPLICABLE, BELOW WINDOW OPENINGS.
 - ALL HORIZONTAL VENTS SHALL BE SLOPED SO AS TO ALLOW MOISTURE TO DRAIN BACK TO WASTE PIPE.
 - HOSE BIBB SHALL BE INSTALLED 24 INCHES ABOVE THE FINISH FLOOR LINE
 - PROVIDE AND SECURE DIELECTRIC UNION ON CONNECTIONS BETWEEN COPPER AND METALLIC PIPES. PROVIDE UNIONS AFTER EACH SCREW TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
 - ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
 - DO NOT USE LEAD CONTAINING PLUMBING FIXTURES, PIPING OR FLUX. USE LEAD-FREE MATERIALS AND /OR SOLDER FLUX TO ALL POTABLE WATER PIPING SYSTEMS.
 - ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
 - CONTRACTOR SHALL DISINFECT/CHLORONATE ALL POTABLE WATER PIPING SYSTEM PRIOR TO USE OF WATER FOR HUMAN CONSUMPTION OR TO OCCUPY THE BUILDING. DISINFECTION AND CHLORINATION SHALL BE COORDINATED WITH GEPA STAFF. SCHEDULE OF DISINFECTION SHALL BE DONE 4 WORKING DAYS IN ADVANCE. SUBMIT BACTERIOLOGICAL AND LEAD ANALYTICAL TEST RESULTS TO GEPA FOR EVALUATION. CHLORINATION AND DISINFECTION METHOD SHALL COMPLY WITH AWWA C651-86 STANDARD.



PERMIT SET

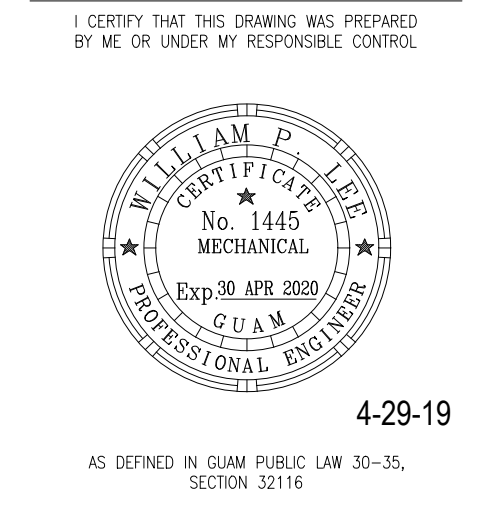
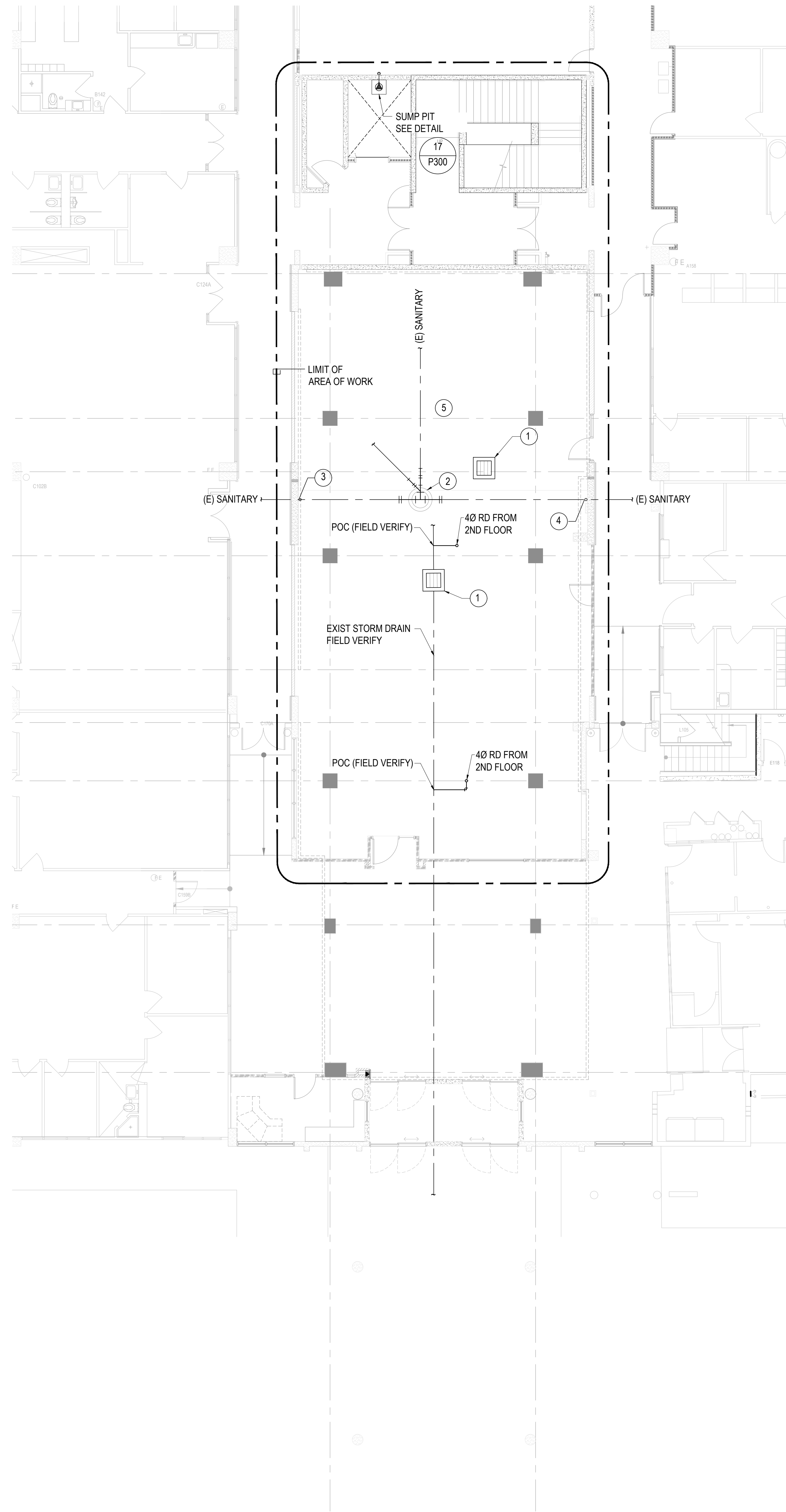
MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
PLUMBING LEGEND AND ABBREVIATIONS

PROJECT TITLE:	OWNER:	SHEET TITLE:
5 03-05-17 BKN UPDATE		
1 10-27-16 IFC		
MARK	DATE	DESCRIPTION
DATE	:	2015.08.31
PROJECT NO	:	144052
DRAWN BY	:	PAG
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DWG NO: **P001**
SHEET OF

CONSTRUCTION NOTES:

1. EXTEND STORM DRAIN UP TO FLOOR LEVEL AND PROVIDE CONCRETE CAP WITH ASPHALTIC SEAL. PROVIDE STAINLESS STEEL LIFTING LUGS ON COVER FOR REMOVAL.
2. REMOVE EXISTING MANHOLE AND MAKE CONNECTIONS TO 3 DRAIN LINES. PROVIDE COTG.
3. NEW 4" TAP INTO EXISTING DRAIN. ROUTE UP TO SECOND FLOOR AND PROVIDE CLEAN OUT AT FIRST FLOOR FLOOR PER CODE. EXTEND EXISTING CONDENSATE DRAINS ON SOUTH WALL TO INDIRECT DRAIN ABOVE CEILING.
4. NEW 4" TAP INTO EXISTING DRAIN. ROUTE UP TO SECOND FLOOR AND PROVIDE CLEAN OUT AT FIRST FLOOR FLOOR PER CODE. EXTEND EXISTING CONDENSATE DRAINS ON NORTH WALL TO INDIRECT DRAIN ABOVE CEILING.
5. ALL PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS, CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.

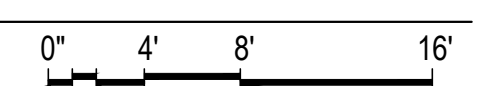


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GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
PARTIAL FIRST FLOOR PLUMBING PLAN

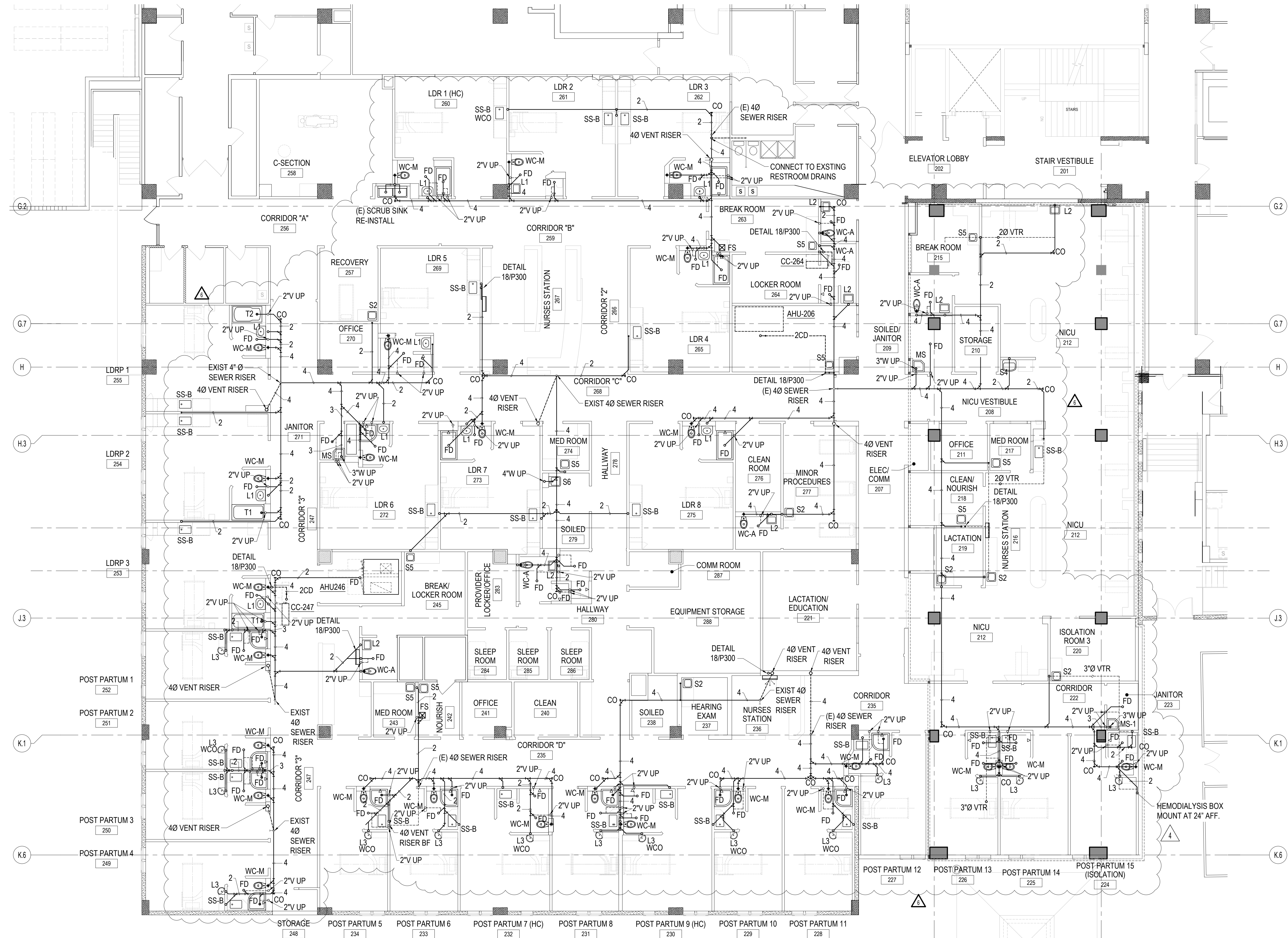
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1	10-27-16	IFC
MARK	DATE	DESCRIPTION
DATE	:	2015.08.31
PROJECT NO	:	144052
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1 PARTIAL FIRST FLOOR PLUMBING PLAN
 P101 1/8" = 1'-0"

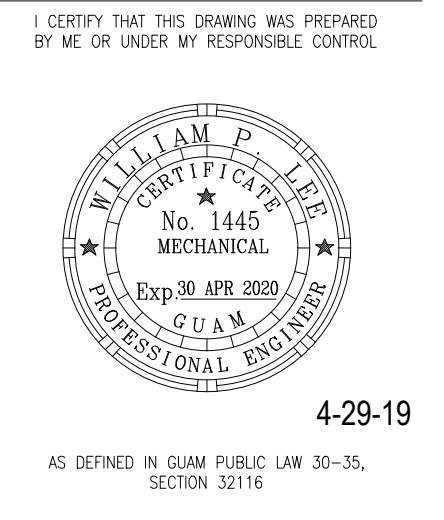
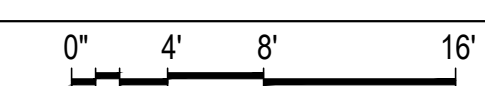


CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.
2. BACKGROUND SHOWN IS OF THE SECOND FLOOR, SHOWING ROOMS AND FIXTURES BEING SERVED.
3. 1/2" COLD WATER SUPPLY TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY TO TRAP PRIMER CONNECTION.



1
P202
PARTIAL SECOND FLOOR SANITARY SEWER PLAN
1/8" = 1'-0"



PERMIT SET

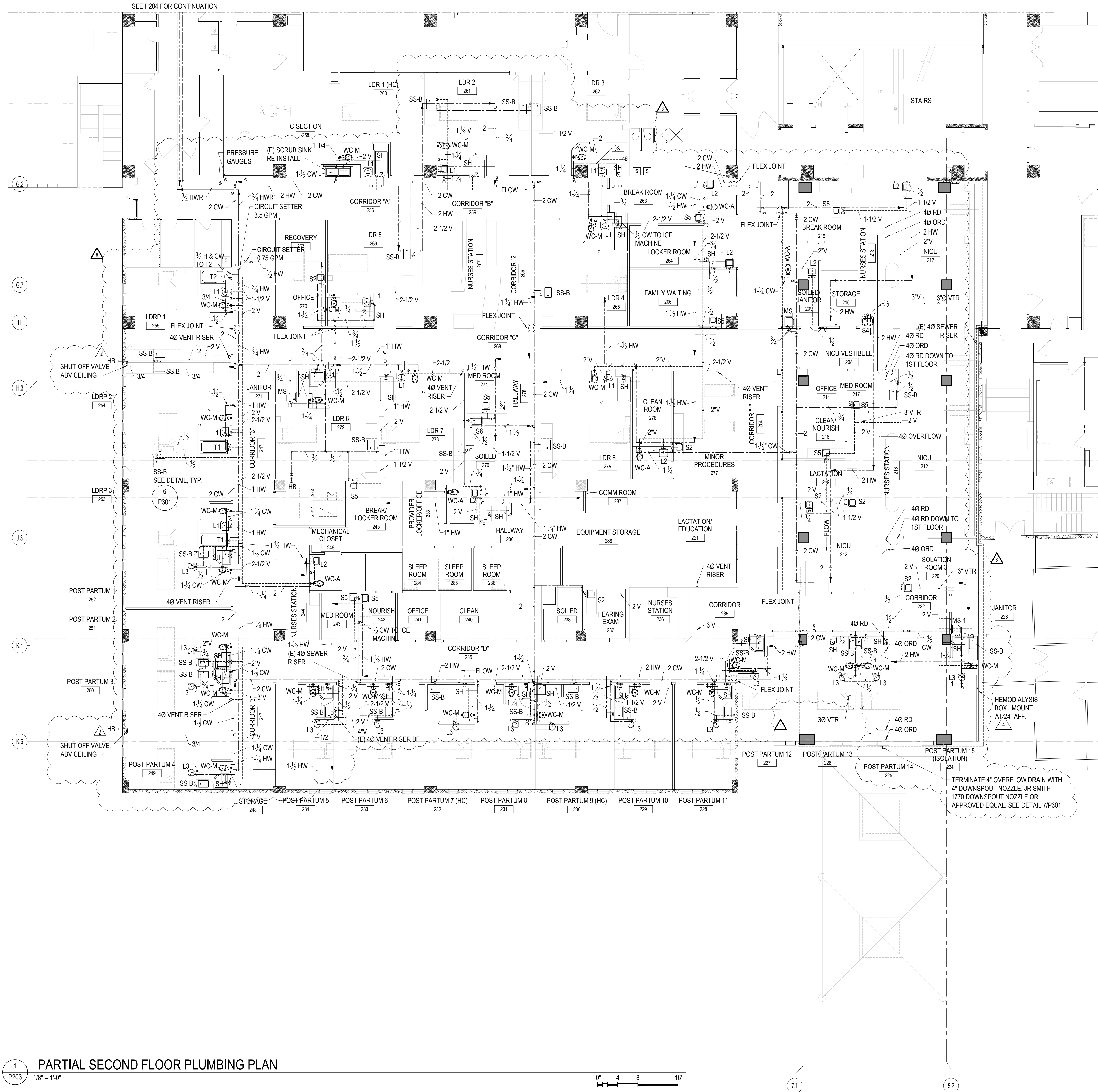
MCH RENOVATION PROJECT, GMHA 007-2014
 GMHA FAMILY BIRTH CENTER
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 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR SANITARY SEWER PLAN

PROJECT TITLE:	OWNER:	SHEET TITLE:
6 12-07-17 Seattle Update		
5 03-05-17 BKN UPDATE		
4 12-15-16 AG		
1 10-27-16 IFC		
MARK	DATE	DESCRIPTION
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PROJECT NO.	144052	
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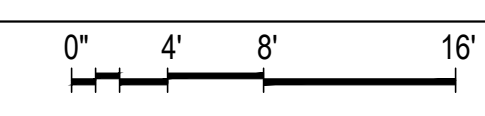
DWG NO: P202

CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.



1 PARTIAL SECOND FLOOR PLUMBING PLAN
P203 1/8" = 1'-0"



PERMIT SET

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850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
GUAM MEMORIAL HOSPITAL AUTHORITY
PARTIAL SECOND FLOOR PLUMBING PLAN

PROJECT TITLE:	OWNER:	SHEET TITLE:
6	12-15-17	SEATTLE UPDATE
5	03-05-17	BKGN UPDATE
4	12-15-16	AG
2	8-1-16	DPW
1	10-27-16	IFC
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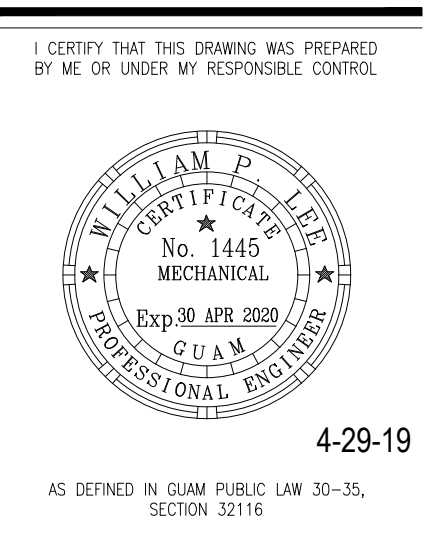
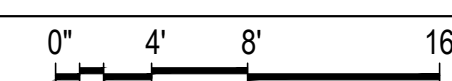
DWG NO: **P203**

CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.



1 PARTIAL SECOND FLOOR PLUMBING PLAN
P204 1/8" = 1'-0"



PERMIT SET

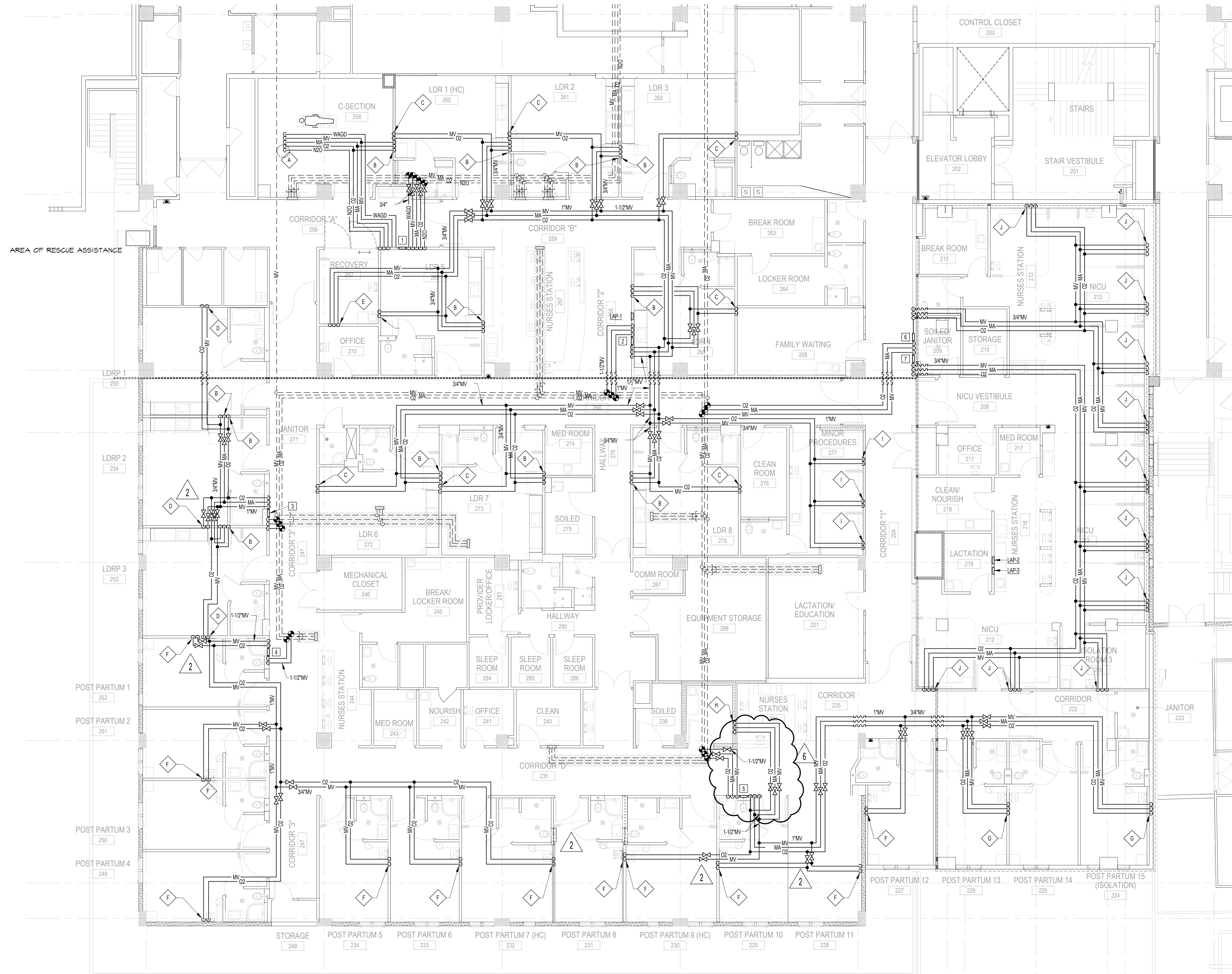
MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR PLUMBING PLAN

PROJECT TITLE:	OWNER:	SHEET TITLE:
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5	03-05-17	BKGN UPDATE
1	10-27-16	IFC
MARK	DATE	DESCRIPTION
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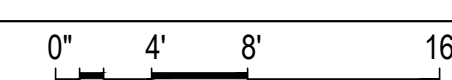
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GENERAL NOTES

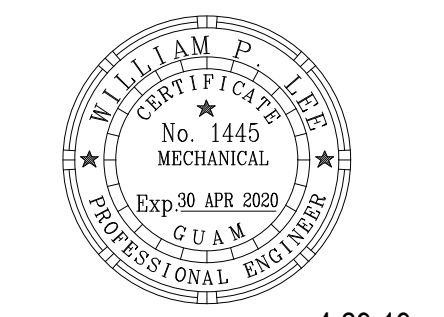
1. ALL NEW O₂, N₂O & MA PIPING SHALL BE 1/2".
2. MINIMUM SIZE OF NEW MV PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING O₂, MA, & MV PIPE SIZES PRIOR TO INSTALLING ANY NEW PIPING & SHALL MARK SIZES ON A COPY OF THIS DRAWING FOR EVALUATION BY THE ENGINEER.
4. PROVIDE SEISMIC CONNECTORS IN ALL MEDICAL GAS PIPING CROSSING BUILDING EXPANSION JOINTS TO COMPENSATE UP TO 4" OF MOTION IN THE X, Y OR Z PLANES.



1 PARTIAL SECOND FLOOR MEDICAL GAS PLAN
P212 1/8" = 1'-0"



I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.



4-29-19
AS NOTED IN GUAM PUBLIC LAW 30-35, SECTION 52116

PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR MED GAS PLAN

PROJECT TITLE: OWNER: SHEET TITLE:

MARK	DATE	DESCRIPTION
6	12-07-17	Seattle Update
5	03-05-17	BKGN UPDATE
4	12-15-16	AG
2	8-1-16	DPW
1	10-27-16	IFC

DATE : 2015.08.31
 PROJECT NO : 144052
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 COPYRIGHT :

DWG NO:
P212

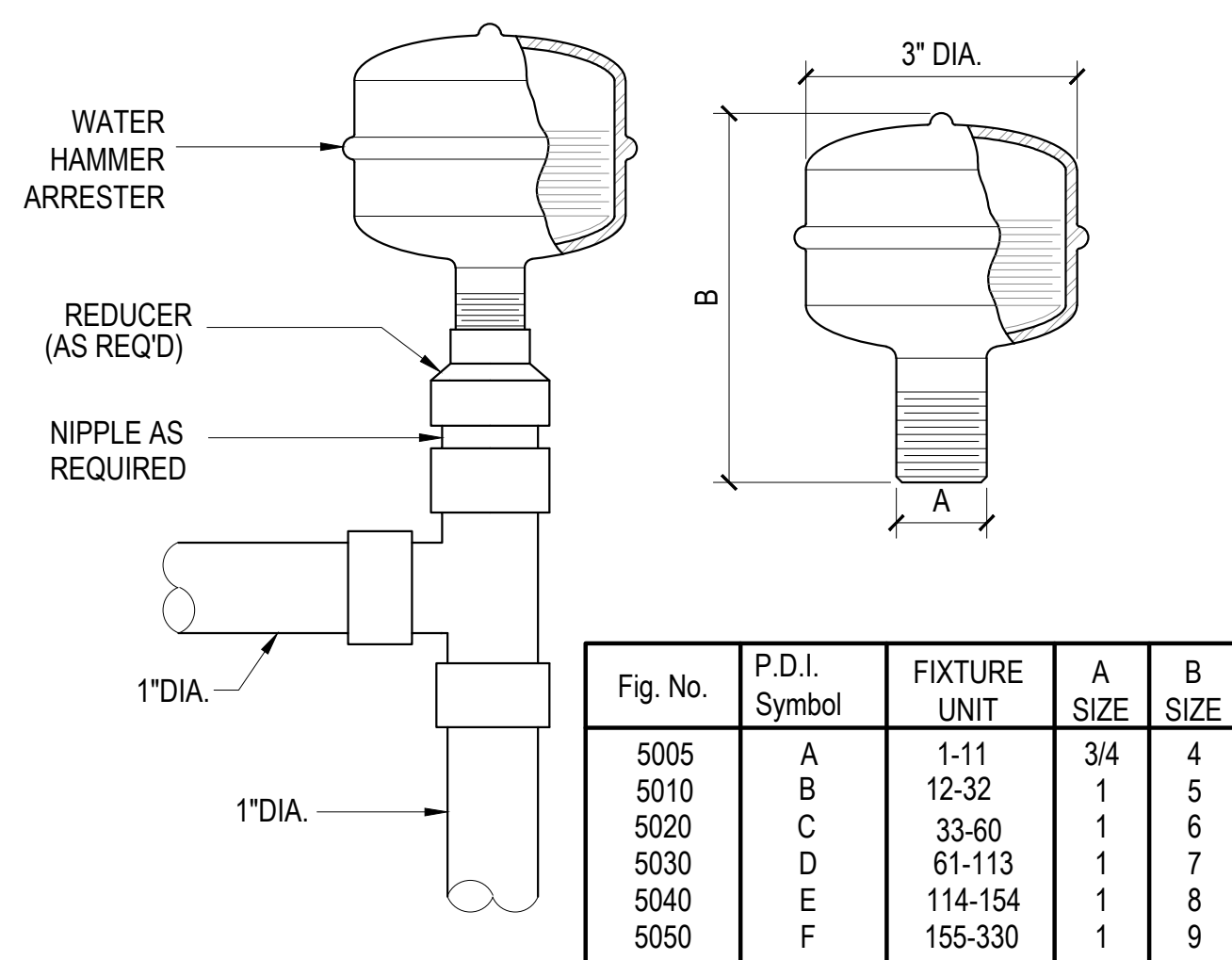
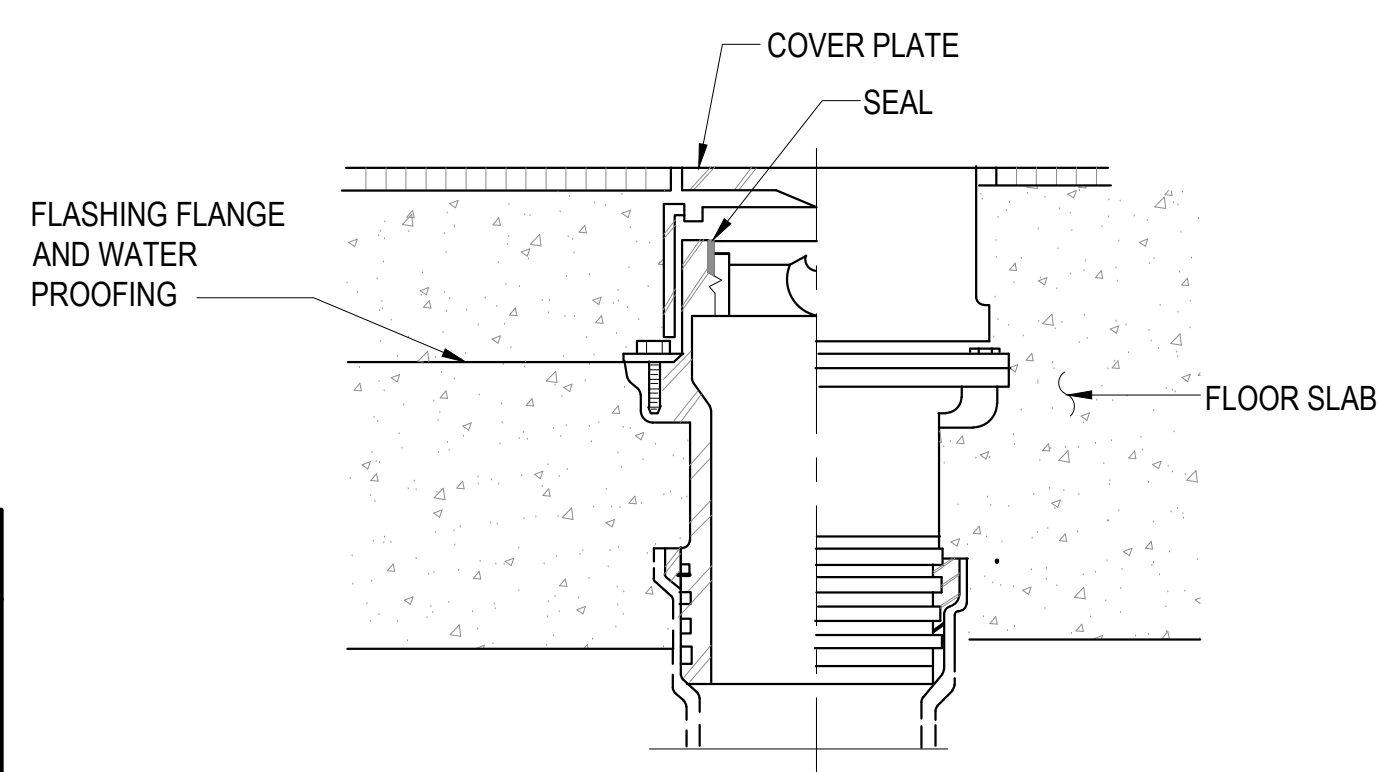
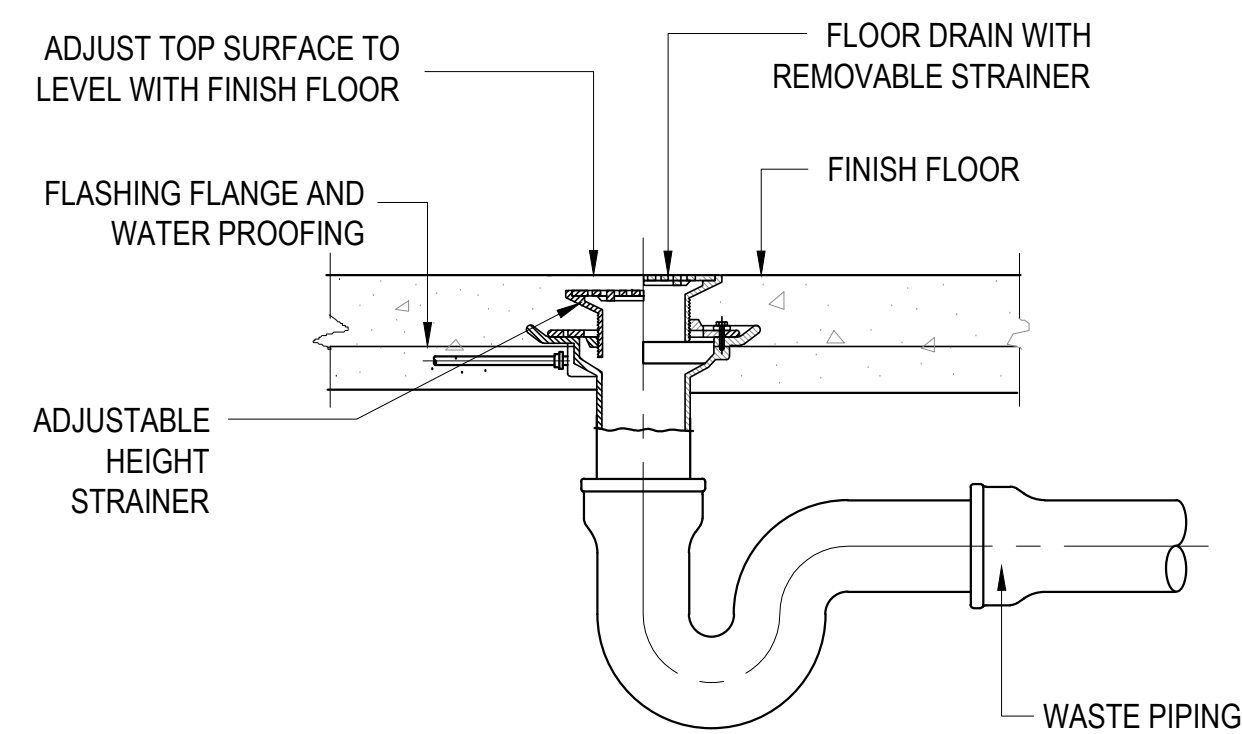


Fig. No.	P.D.I. Symbol	FIXTURE UNIT	A SIZE	B SIZE
5005	A	1-11	3/4	4
5010	B	12-32	1	5
5020	C	33-60	1	6
5030	D	61-113	1	7
5040	E	114-154	1	8
5050	F	155-330	1	9

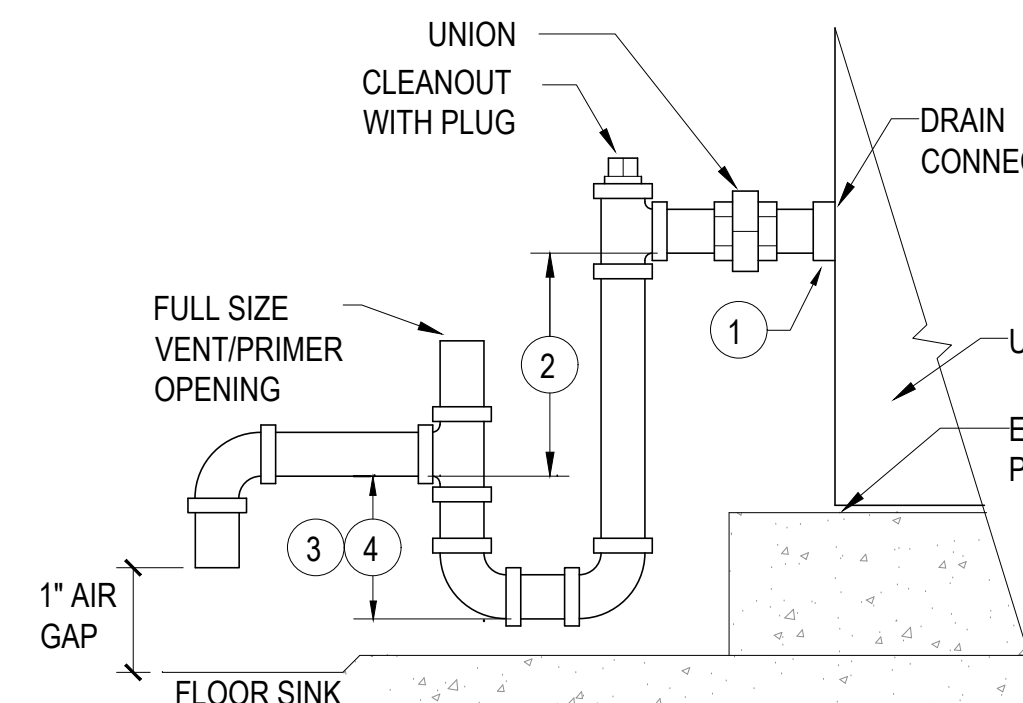
1 WATER HAMMER ARRESTER
P300 NOT TO SCALE



2 FLOOR CLEANOUT DETAIL
P300 NOT TO SCALE

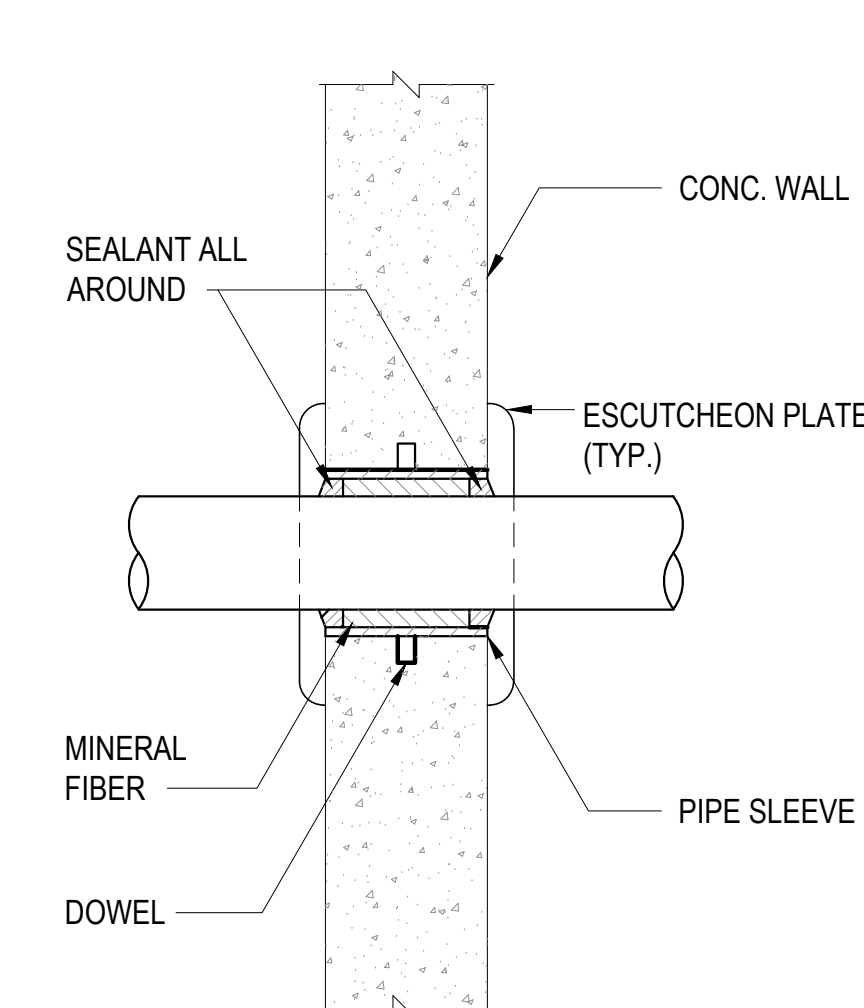


3 FLOOR DRAIN DETAIL
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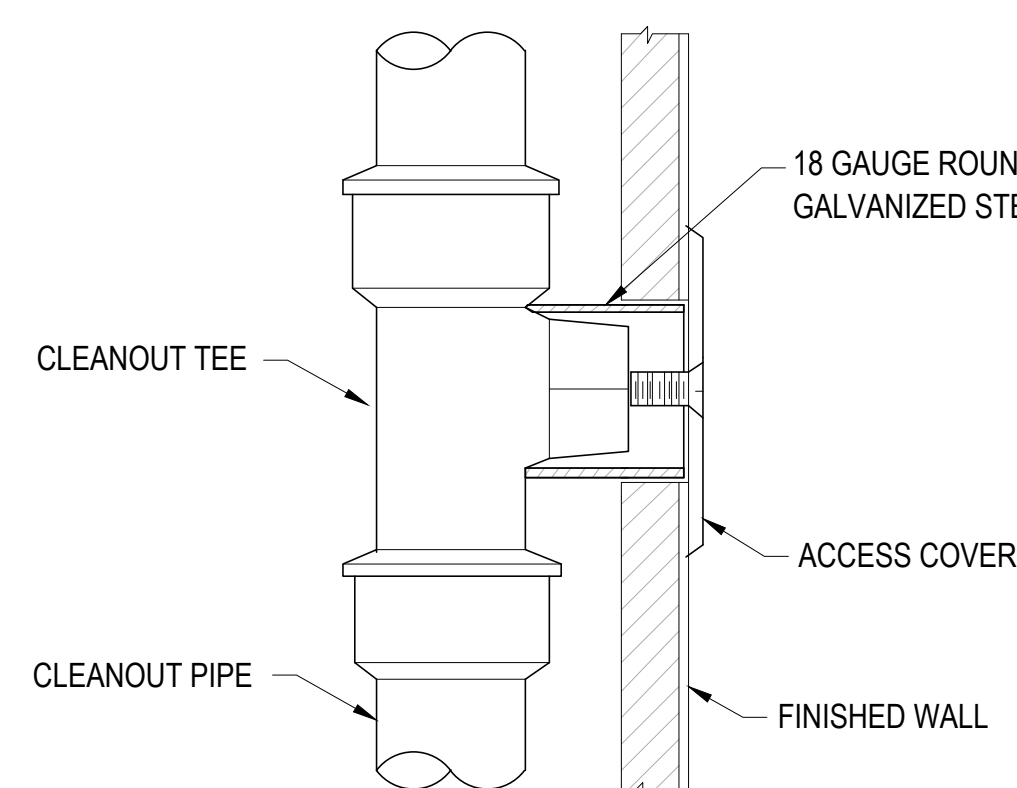


- NOTES:
1. MINIMUM DRAIN PIPE SIZE EQUAL TO CONNECTION PROVIDED WITH EQUIPMENT
 2. MINIMUM DISTANCE EQUAL TO NEGATIVE STATIC PRESSURE (IN. W.C.) + 1" OR POSITIVE STATIC PRESSURE (IN. W.C.) + 1"
 3. DISTANCE EQUAL TO 8 NEGATIVE STATIC PRESSURE (IN. W.C.) + 1" OR POSITIVE STATIC PRESSURE (IN. W.C.) + 1". SEE MECH. SCHEDULES FOR STATIC PRESSURE INFORMATION.

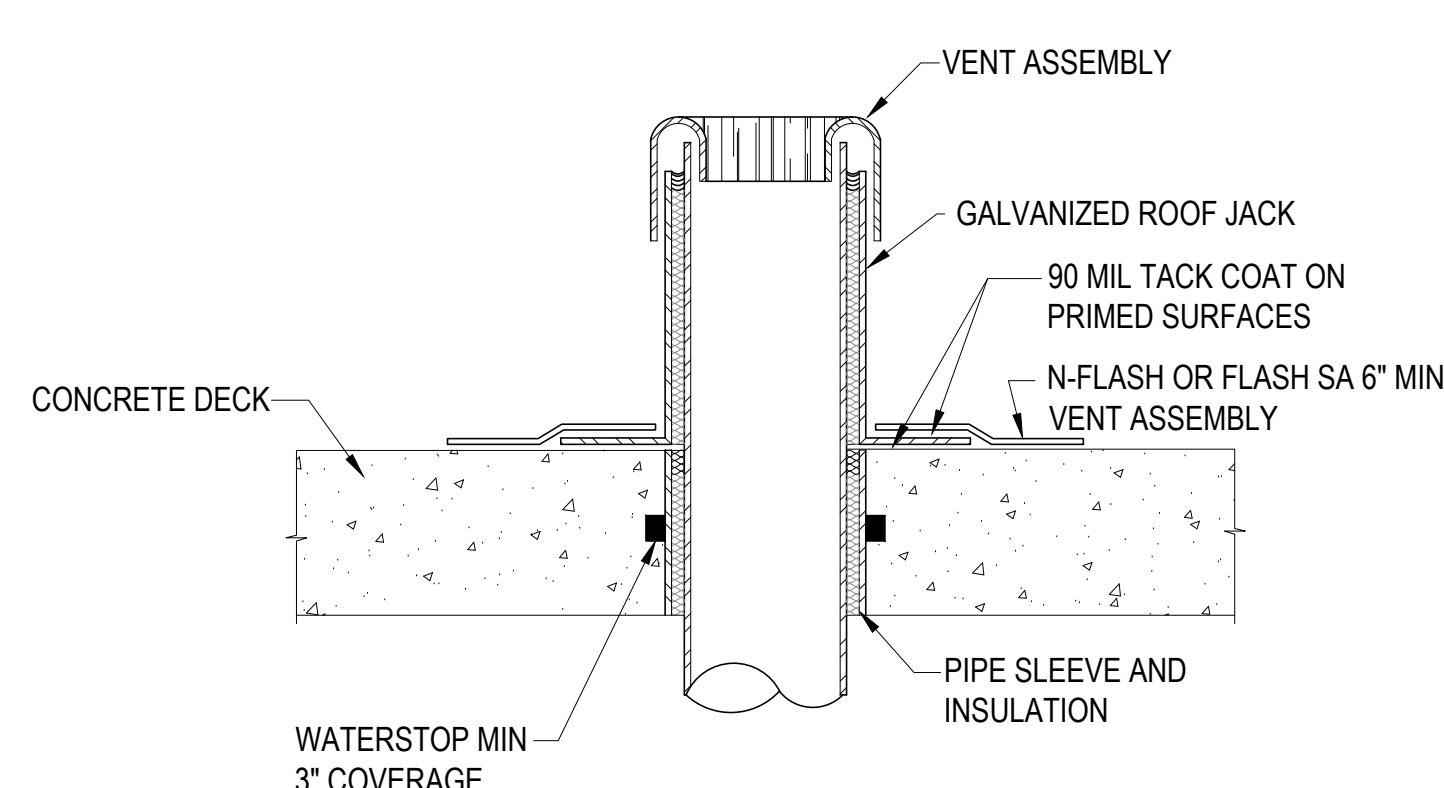
4 PCU CONDENSATE DETAIL
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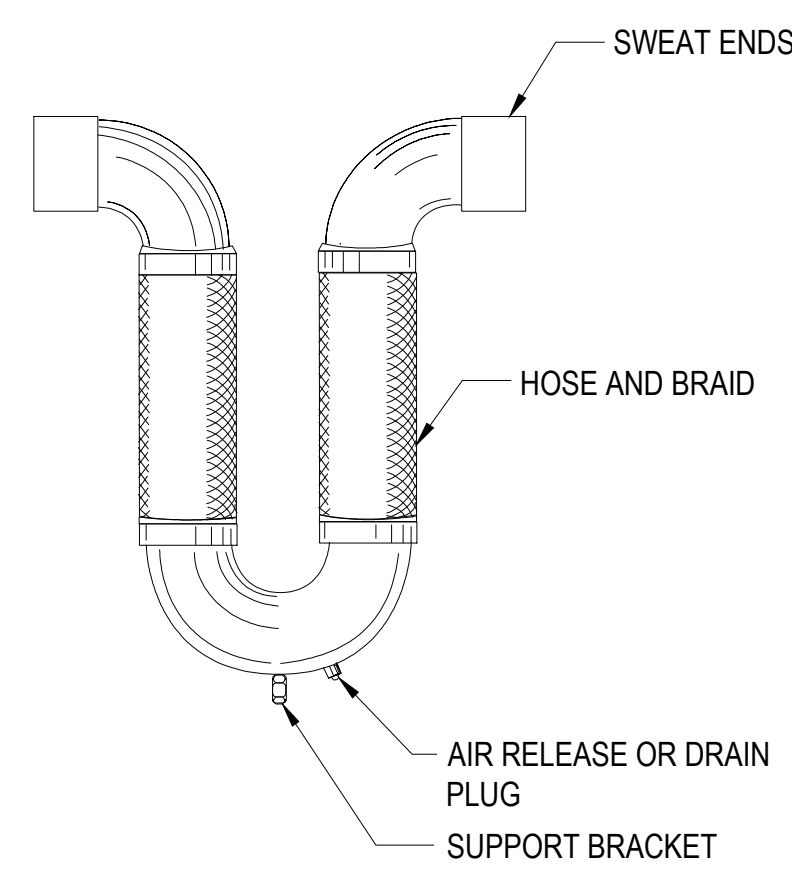
5 PIPE THRU WALL DETAIL
P300 NOT TO SCALE



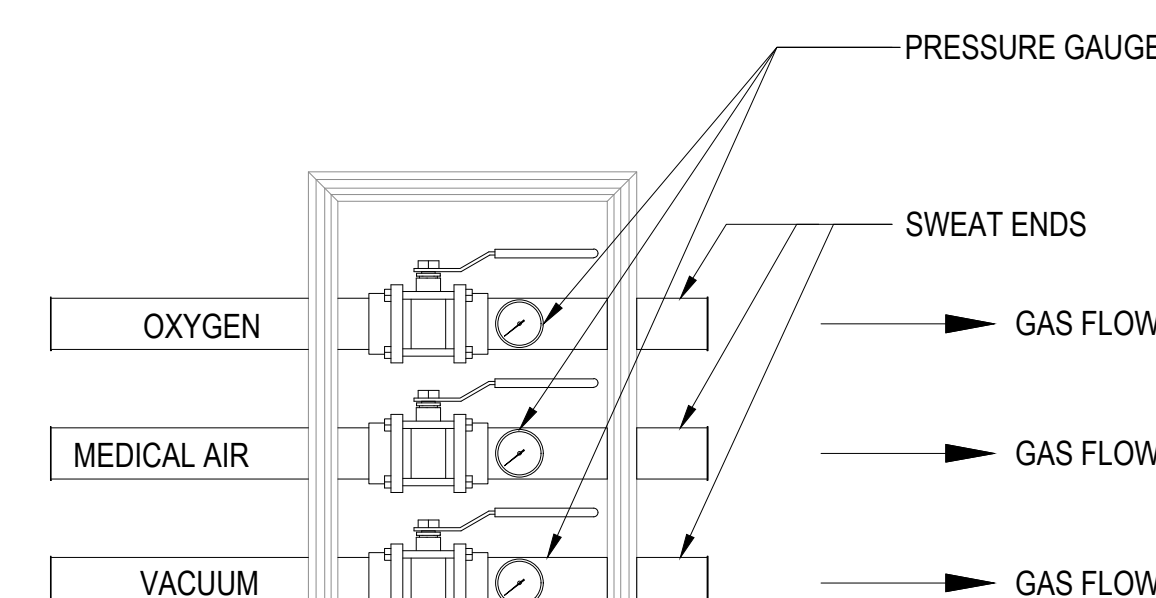
6 WALL CLEANOUT DETAIL
P300 NOT TO SCALE



7 VENT THRU CONCRETE ROOF DETAIL
P300 NOT TO SCALE

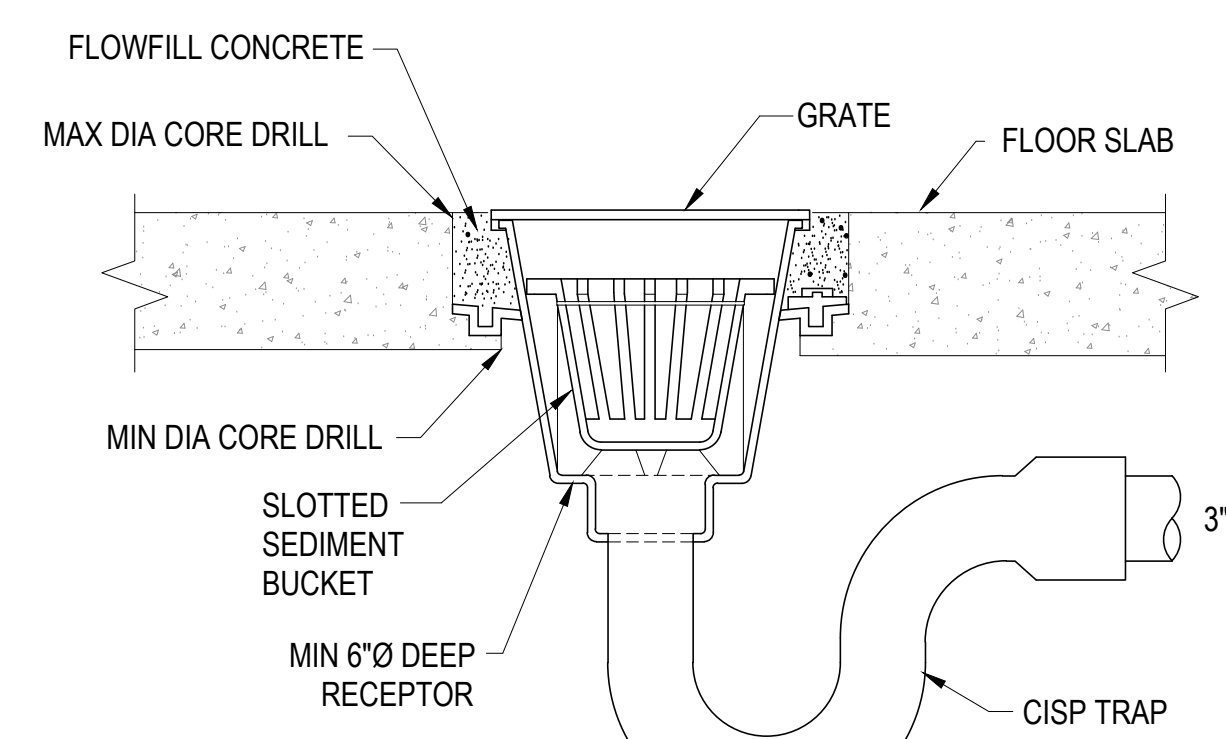


8 SEISMIC PIPE EXPANSION JOINT
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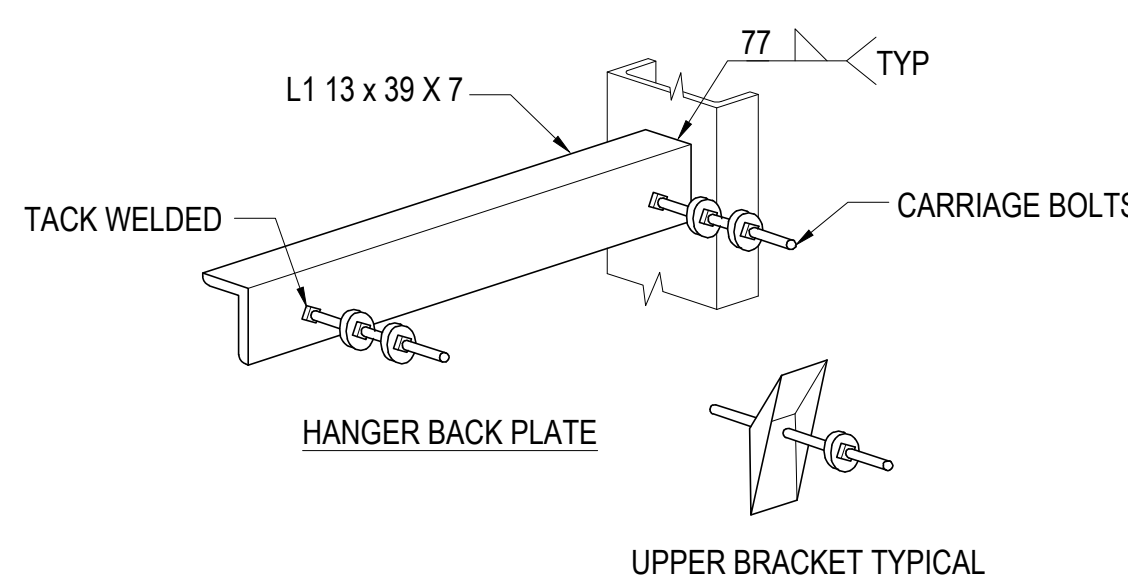


NOTE: PROVIDE ZONE VALVE TAG, LOCATION OF ZONE VALVE AND AREA BEING CONTROLLED

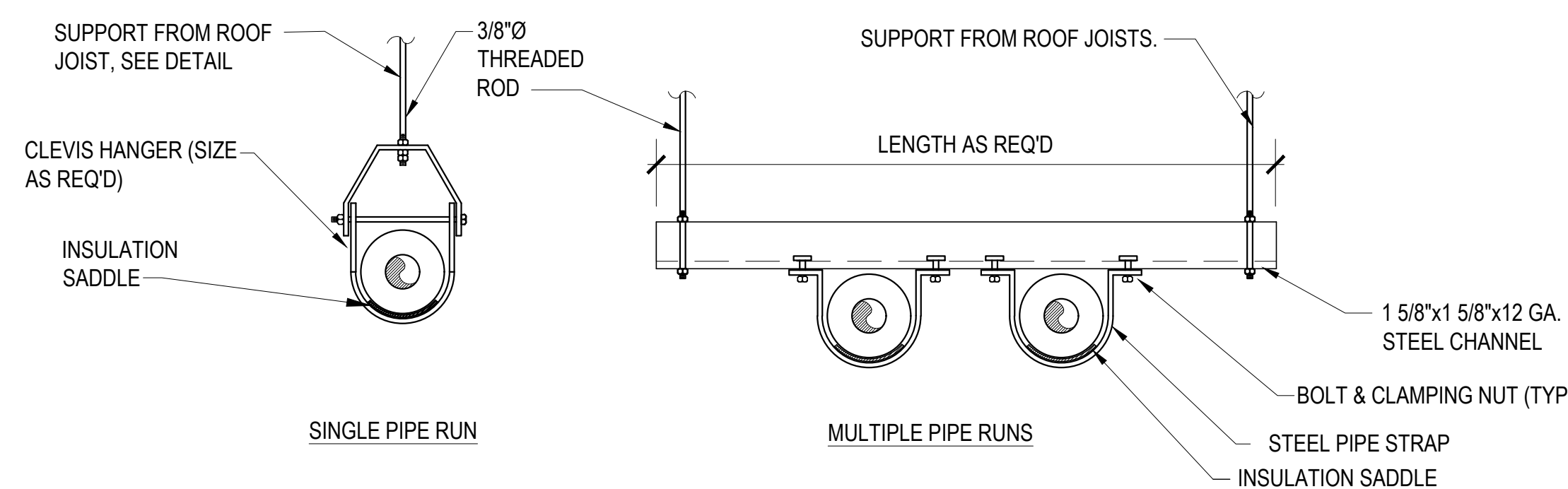
9 ZONE VALVE BOX DETAIL
P300 NOT TO SCALE



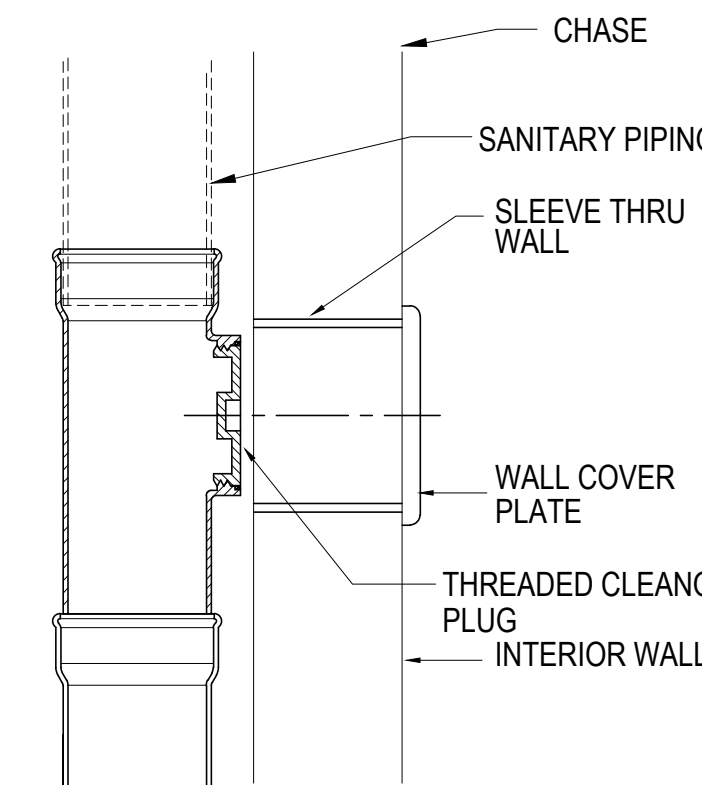
10 PLUMBING DRAIN FLOOR SINK
P300 NOT TO SCALE



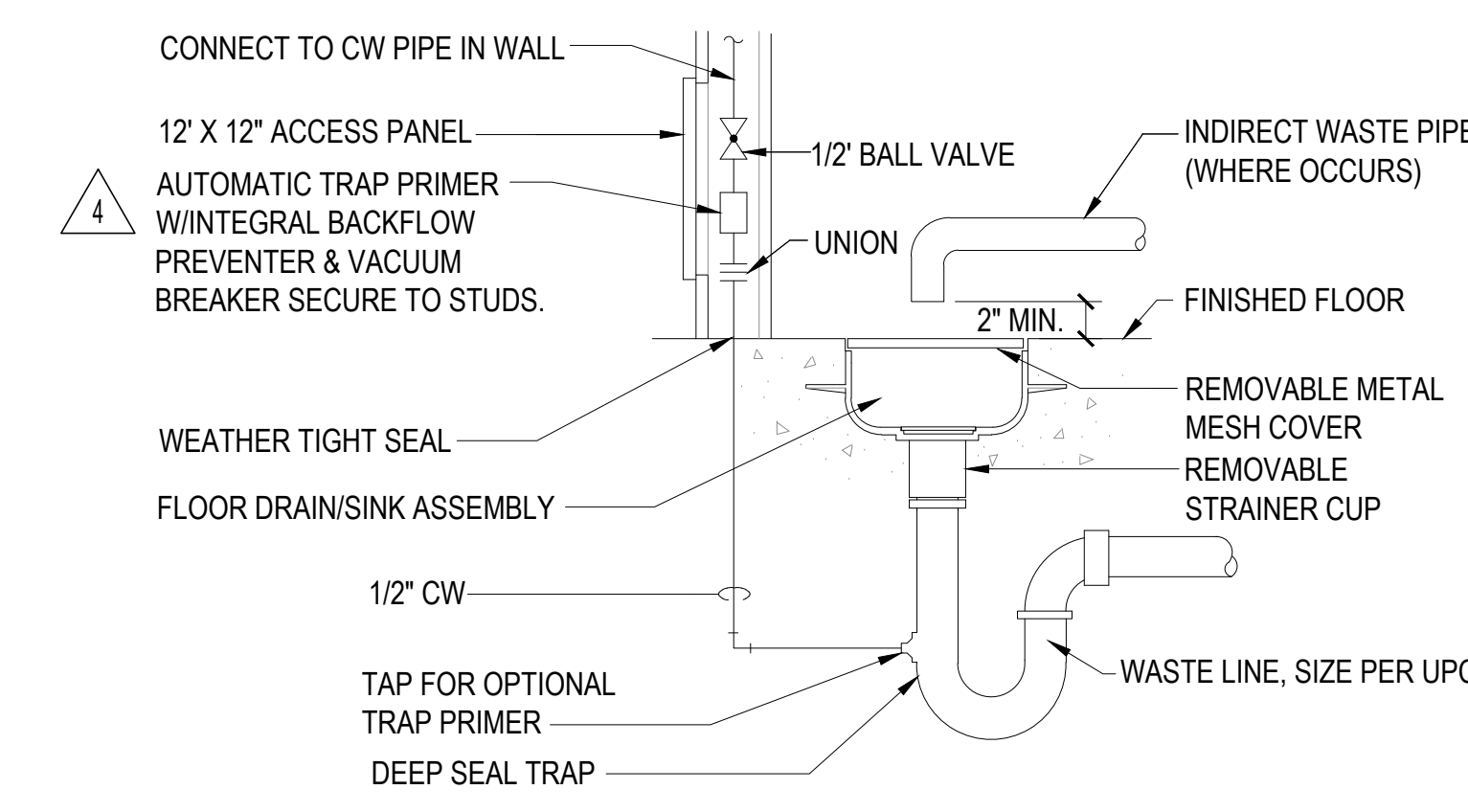
11 LAVATORY MOUNTING FOR METAL STUDS
P300 NOT TO SCALE



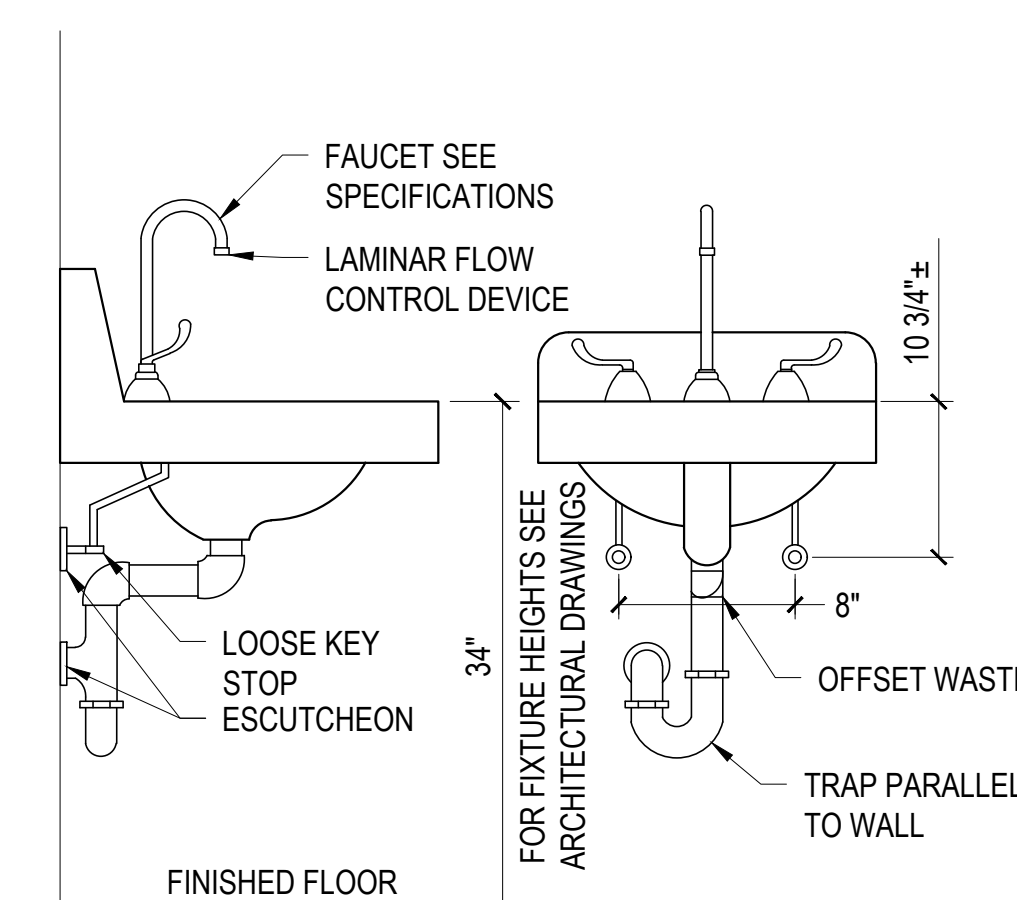
12 METAL PIPE SUPPORT DETAILS
P300 NOT TO SCALE



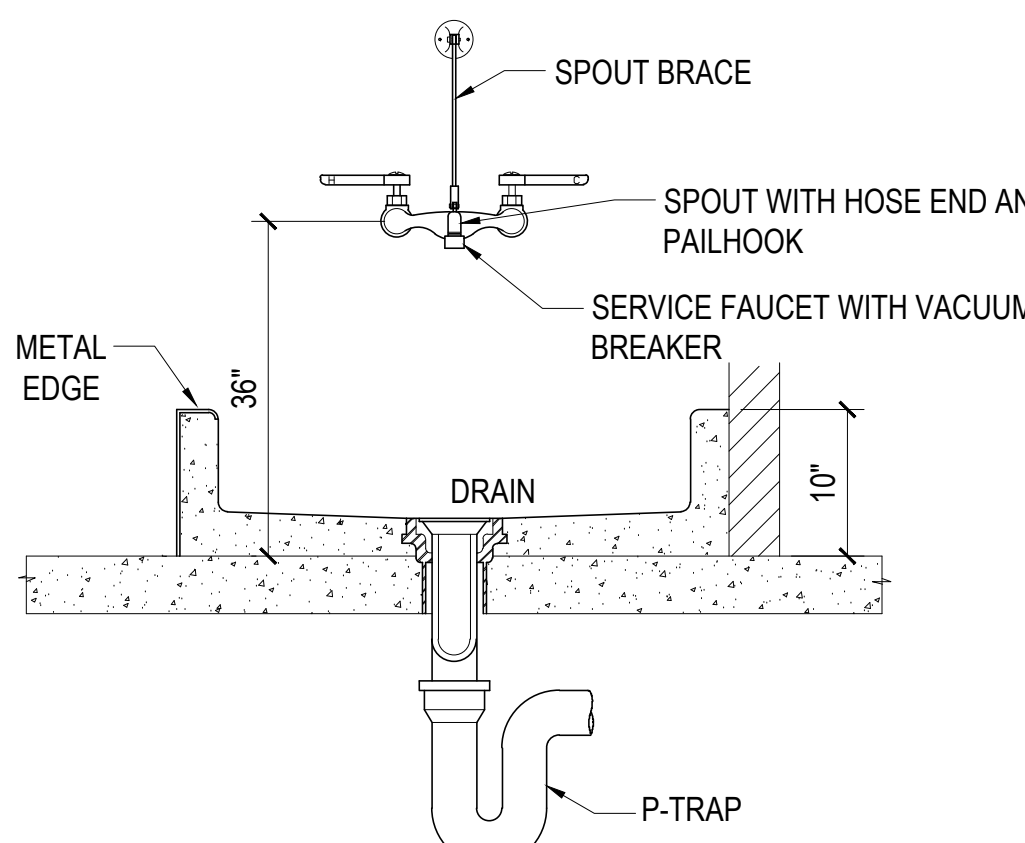
13 WALL CLEANOUT DETAIL
P300 NOT TO SCALE



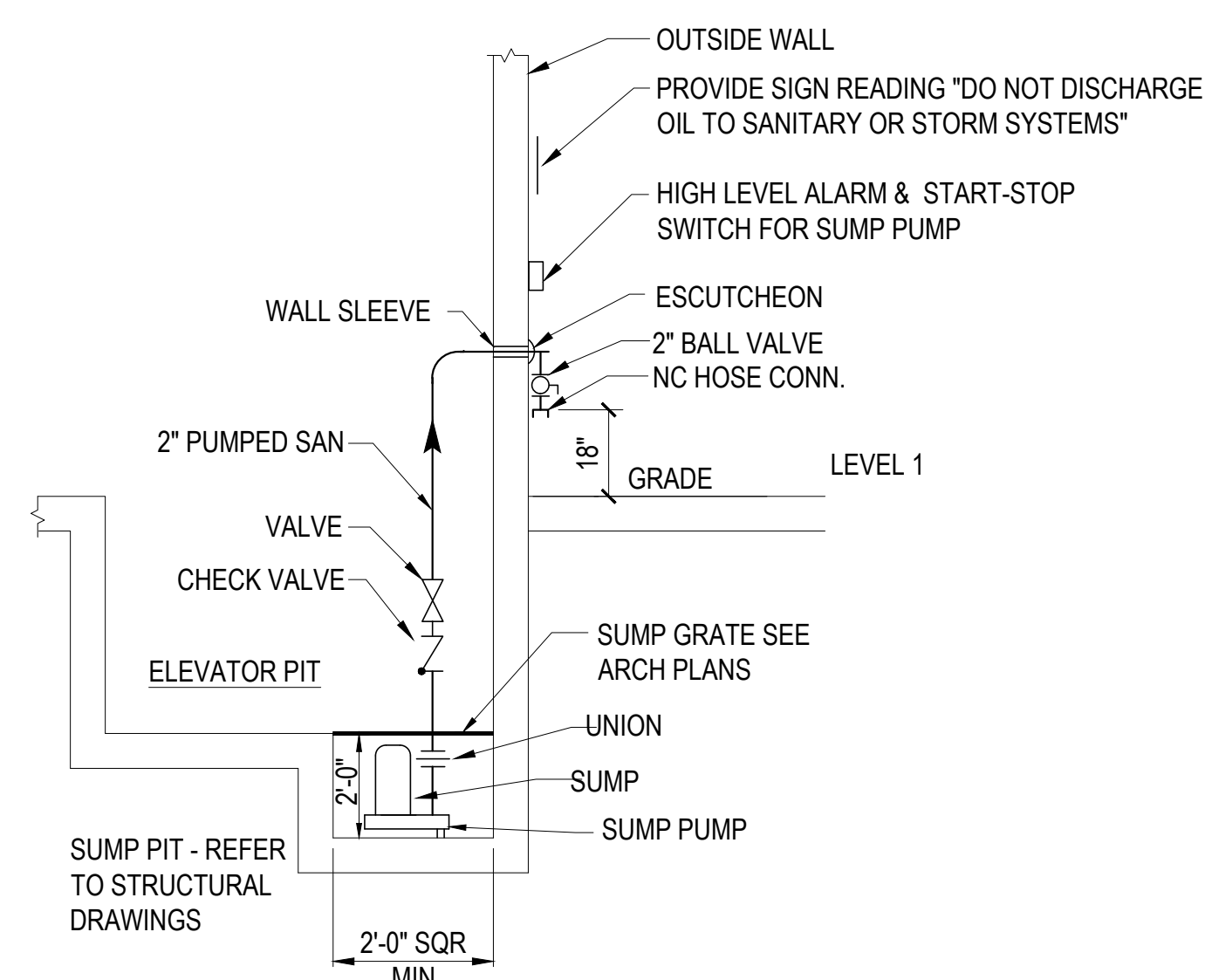
14 FLOOR DRAIN DETAIL
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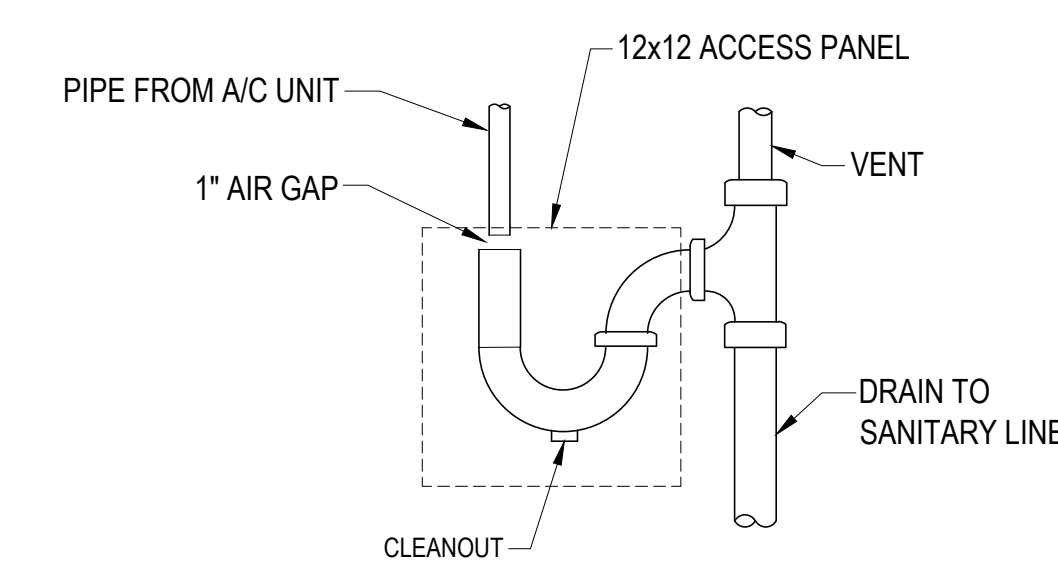
15 ADA ACCESS LAV DETAIL
P300 NOT TO SCALE



16 MOP SINK DETAIL
P300 NOT TO SCALE

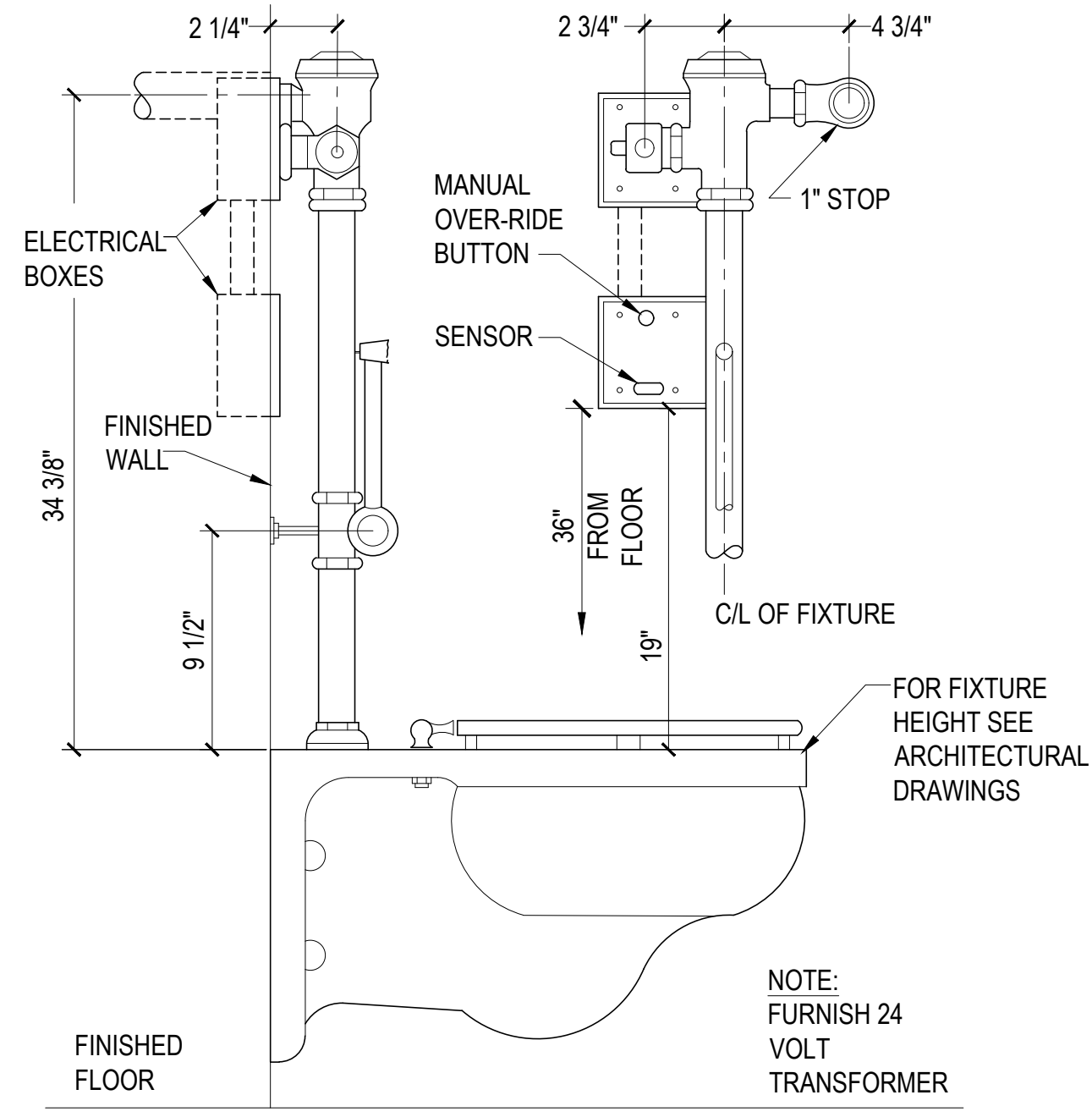


17 ELEVATOR SUMP PUMP DETAIL
P300 NOT TO SCALE

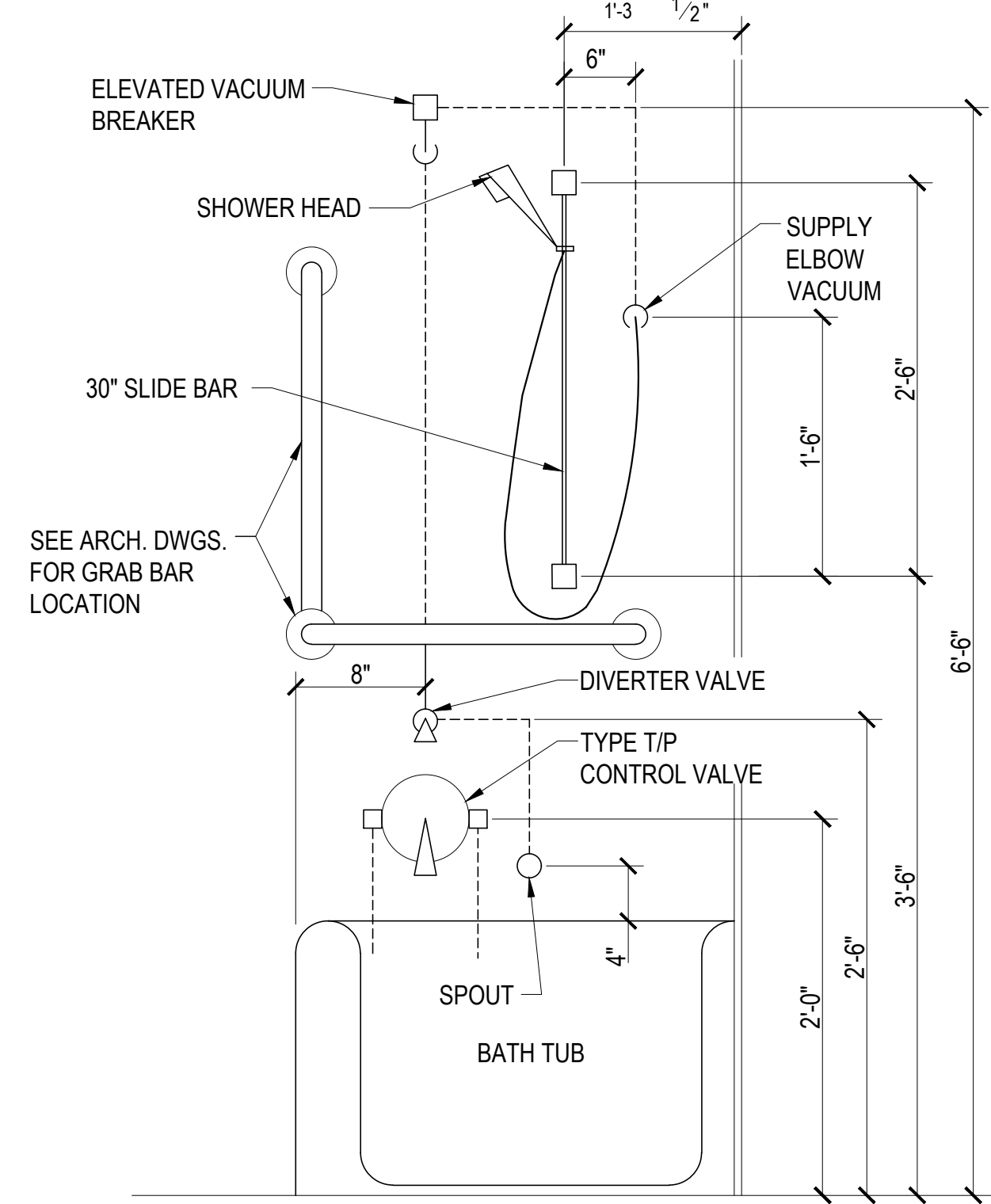


18 AC CONDENSATE INDIRECT DRAIN
P300 NOT TO SCALE

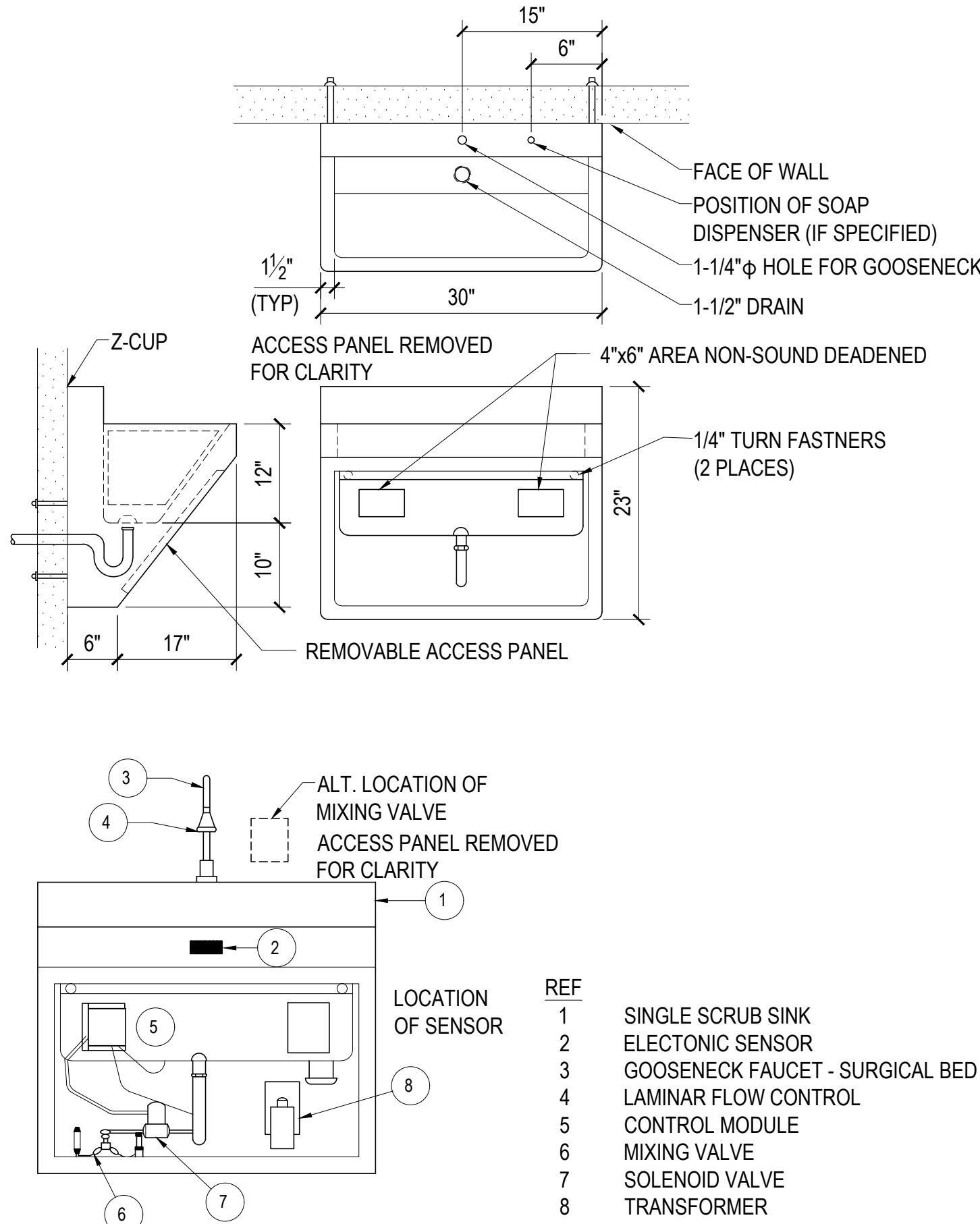
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5	03-05-17	BKGN UPDATE
4	12-15-16	AG
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DATE	2015.08.31	
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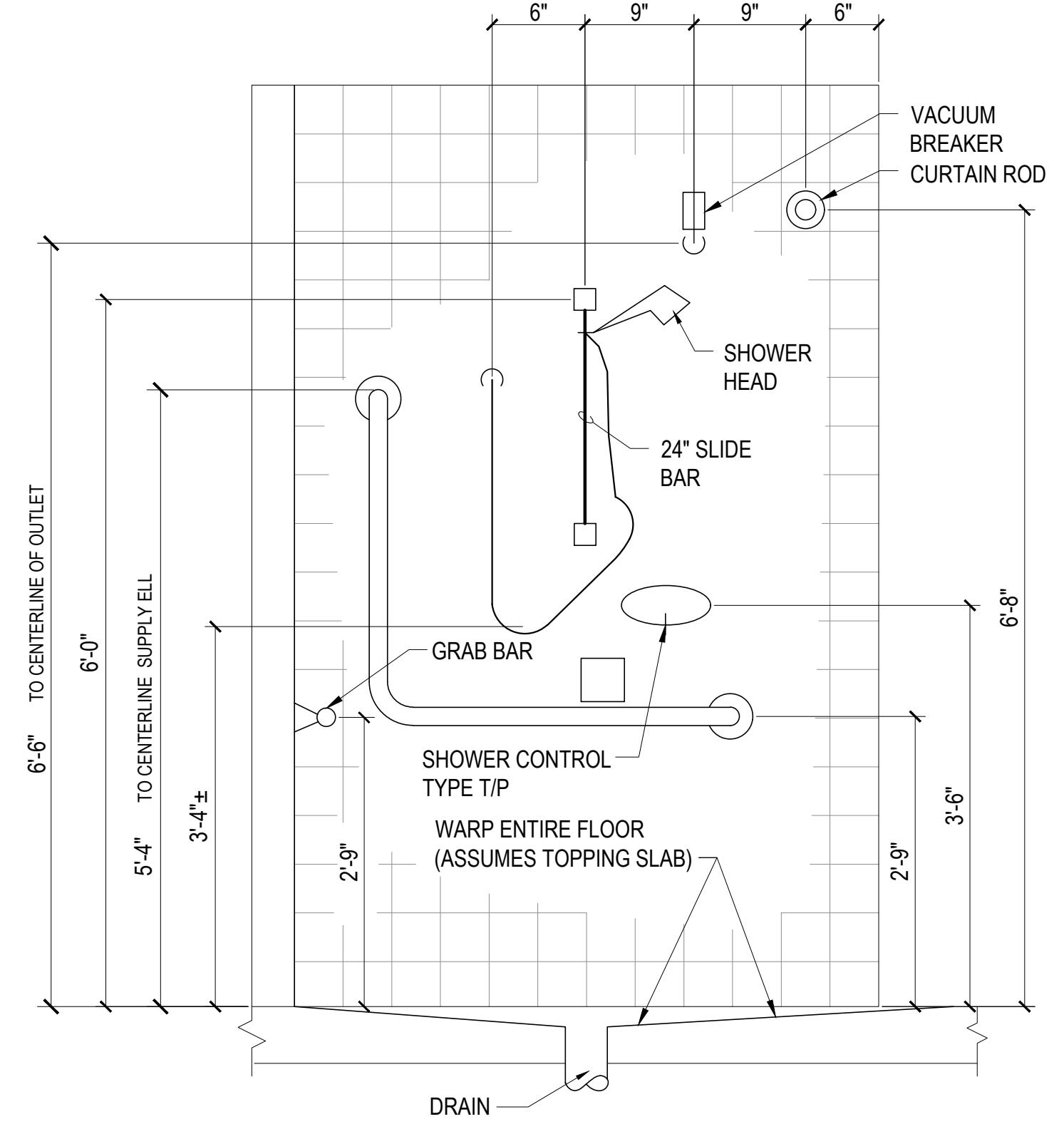
1 WC DETAIL
P301 NOT TO SCALE



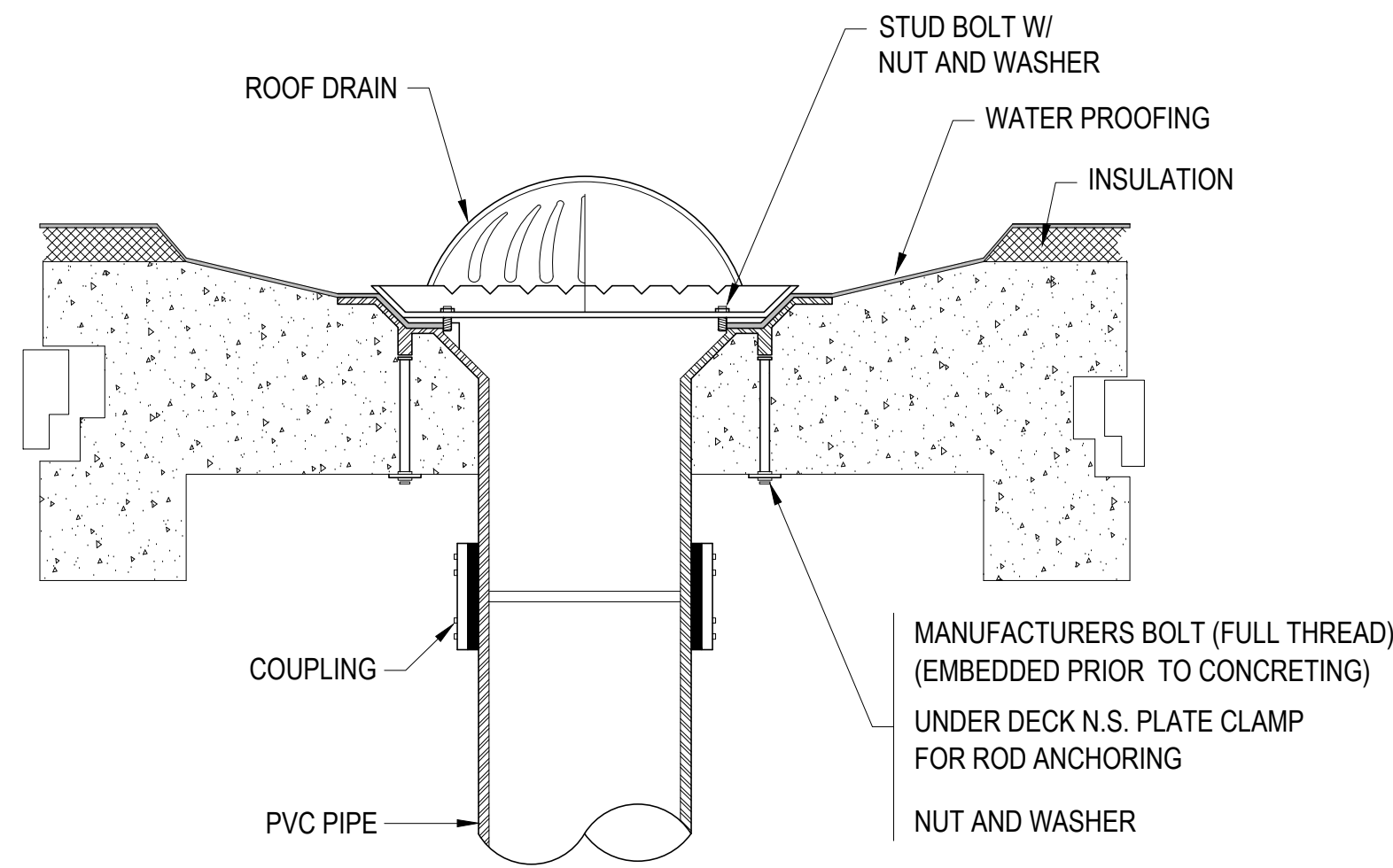
2 TUB DETAIL
P301 NOT TO SCALE



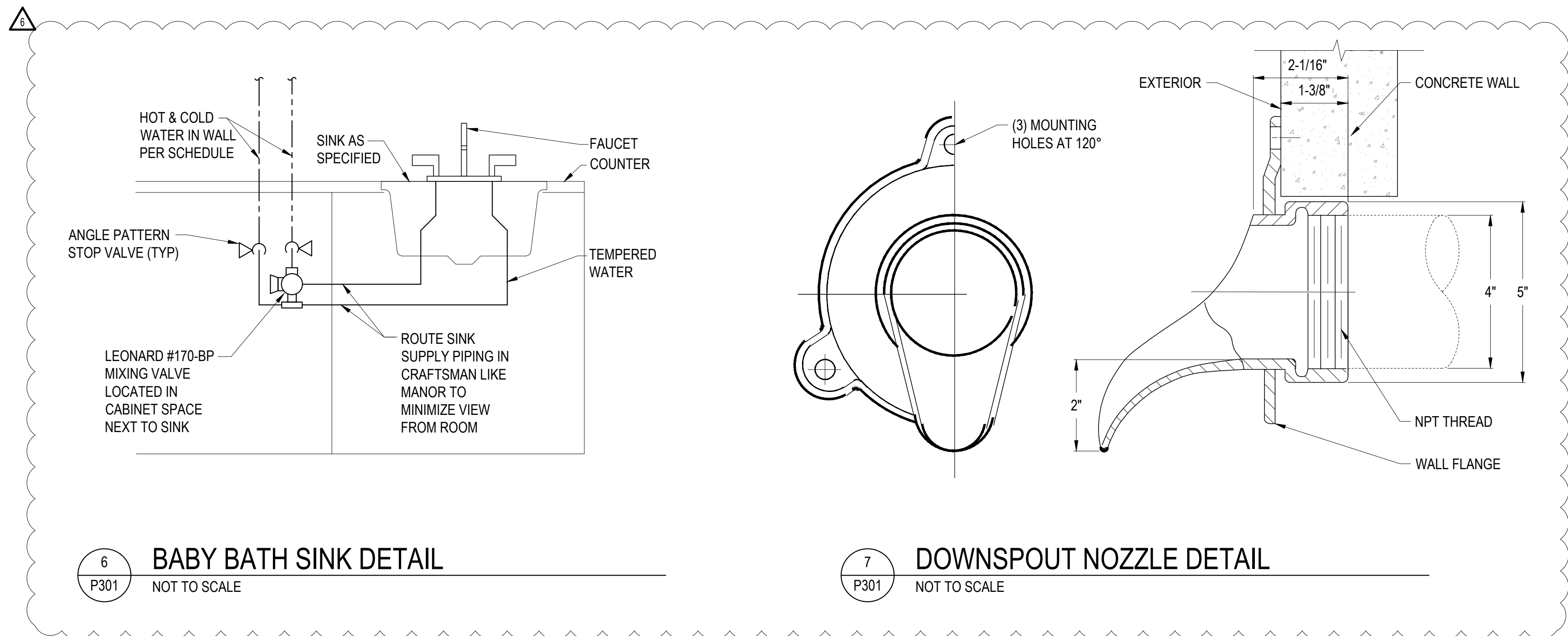
3 SCRUB SINK DETAIL
P301 NOT TO SCALE



4 PATIENT SHOWER DETAIL
P301 NOT TO SCALE



5 ROOF DRAIN DETAIL
P301 NOT TO SCALE



6 BABY BATH SINK DETAIL
P301 NOT TO SCALE

7 DOWNSPOUT NOZZLE DETAIL
P301 NOT TO SCALE

PROJECT TITLE:	OWNER:	SHEET TITLE:
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PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	SOIL	VENT	COLD WATER	HOT WATER	150106 GMH MATERNITY
COTG	EXTERIOR CLEANOUT	4	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORiated HEAVY CAST IRON COVER.
DF	DRINKING FOUNTIAN	1-1/2"	1-1/2"	1/2"	--	ELECTRIC, SELF CONTAINED, WALL HUNG, HFC-134A REFRIGERATED DUAL LEVEL WATER COOLER, CHILLING CAPACITY OF 9 GPH OF 60°F DRINKING WATER, SELF CLOSING CONTROLS ON THE FRONT. DUAL LEVEL ADA COMPLIANT, WITH OW 200L FILTER FOR DRINKING FOUNTIANS.
FD	FLOOR DRAIN	2"	2"	--	--	FLOOR DRAIN, 5" DIA, SMITH #2005 WITH ADJUSTABLE STRAINER HEAD AND CAST IRON BODY. FURNISH WITH 1/2" TRAP PRIMER CONNECTION AND NICKEL BRONZE STRAINER. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN
HB	HOSE BIBB	--	--	3/4"	--	WALL FAUCET WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND 3/4" NPT
IM 105	ICE MACHINE	1-1/2"	--	1/2"	--	SYMPHONY MODEL 25: COUNTER MOUNTED AIR COOLED
L-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER VEER: WHITE VITREOUS CHINA, WALL MOUNTED, ADA ACCESSIBLE, COMPLETE WITH STAINER, TRAP, ESCUTCHEON, TEMPERING VALVE, FAUCET: THREE HOLE DECK MOUNTED FAUCET @ 0.5 GPM WITH WING HANDLES, ADA COMPLIANT.
L-3	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	MINETTE CORNER SINK: WHITE VITREOUS CHINA, WALL MOUNTED CORNER SINK, ADA ACCESSIBLE, COMPLETE WITH STAINER, TRAP, ESCUTCHEON, TEMPERING VALVE, FAUCET: THREE HOLE DECK MOUNTED FAUCET @ 0.5 GPM, WITH WING HANDLES ADA COMPLIANT.
RD	ROOF DRAIN	4"				4" NO HUB ROOF DRAIN WITH INTERGRAL OVERFLOW, CAST IRON BODY, ROOF SUMP RECIEVER, CAST IRON DOME STRAINER.
SS	UTILITY SINK	2"	1-1/2"	1/2"	1/2"	UTILITY SINK, SINGLE 24x24 BASIN, FREE STANDING, POLYPROPYLENE TUB, WHITE, WITH DECK MOUNTED CHROME DOUBLE HANDLE 4" CENTERS FAUCET SET, 5.5" AERATOR SPOUT AND TRAP
SS-M1	SCRUB SINK	2"	1-1/2"	1/2"	1/2"	SURGEONS SCRUB SINK, MODEL 9047, SINGLE STATION
SS-B	BABY SINK	2"	1-1/2"	1/2"	1/2"	ASST, CRADLE BABY BOWL, 24x16x5, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, PROVIDE WITH LEONARD #170-BP MIXING VALVE AND PROVIDE TEMPERED WATER AT 105°F TO HW CONNECTION @ FAUCET, DECK MOUNT, DRAIN, POP-UP DRAIN, TRAP AND ESCUTCHEON. BOWL TO BE INTEGRAL WITH COUNTER
S-1	ROOM SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 22x22x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S-2	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S-3	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, WALL MOUNT, 1-HOLE 8" GOOSENECK @ 0.5 GPM, FOOT OPERATED, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S-4	SCRUB SINK	2"	1-1/2"	1/2"	1/2"	AMSCO, SINGLE COMPARTMENT, WALL MOUNTED, 28x22" VITREOUS CHINA, 1-HOLE 8" GOOSENECK @ ELECTRIC SENSOR, 0.5 GPM FLOW RATE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S-5	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S-6	CLINIC SINK	4"	2"	1-1/2"	1/2"	WHITE VITREOUS CHINA, WALL MOUNTED, WITH STAINLESS STEEL RIM GUARD, MANUAL FLUSHOMETER VALVE, 1-1/2" TOP SPUD, SIPHON JET, 6.5 GPF, WALL MOUNTED FAUCET WITH VACUUM BREAKER, ELBOW ACTION HANDLES, WALL BRACE, LOOSE KEY STOPS, WITH P BEDPAN WASHER WITH PEDAL VALVE, 4" VINYL HOSE SPRAY OUTLET AND VACUUM BREAKER.
SA	SHOCK ARRESTOR	--	--	1/2"	--	STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201 - INSTALL ON ALL FIXTURES (WC, LAVS, SINKS, ETC.)
SH	SHOWER	2"	1-1/2"	1/2"	1/2"	FAUCET: CHROME PLATED, CENTRAL THERMOSTAT TRIM KIT, SINGLE UNIT HANDLE WITH HOT LIMIT SAFETY STOP, ADA COMPLIANT, 3 FUNCTION WATER SAVING SHOWERHEAD 1.5 GPM. BUILT IN PRESSURE COMPENSATING FLOW CONTROL, FLEX SHOWER HEAD ASSEMBLY
T-1	TUB	2"	1-1/2"	1/2"	1/2"	TUB: ONE PIECE, 66x32, ENAMEL CAST IRON, GLOSS PORCELAIN FINISH, INTERGRAL APRON, WITH POP UP DRAIN, OVERFLOW, TUB FAUCET AND COMBINATION BATH & SHOWER VALVE TRIM, with HAND SHOWER KIT AND VACUUM BREAKER.
T-2	TUB	2"	1-1/2"	3/4"	3/4"	TUB: DROP IN, OVAL, 42x72, 4 JET, CONTROLLER, COLOR WHITE WITH POP UP DRAIN, OVERFLOW, DECK MOUNDED 3-HOLE TUB FILLER, 15 GPM, SHOWER BAR
MS	MOP SINK	3"	2"	3/4"	3/4"	JANITOR MOP SINK: 28x28 ENAMELED CAST IRON SERVICE SINK, w/ REMOVABLE VINYL COATED WIRE RIM GUARD AND FLAT METAL STRAINER TAPPED FOR 3"NPT. SUPPLY FITTING WITH VACUUM BREAKER, LOOSE KEY STOPS, RUBBER HOSE AND WALL HOOK
WC-M	WATER CLOSET	3"	2"	1-1/4"	--	WHITE VITREOUS CHINA WALL MOUNTED WITH CARRIER, ELECTRONIC FLUSHOMETER HET VALVE TYPE, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, ADA COMPLIANT, 1.3 GPF, WITH WHITE FRONT SEAT AND NO COVER. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS WITH BED PAN WASHER, HURON WATER CLOSET
WC-A	WATER CLOSET	3"	2"	1-1/4"	--	WHITE VITREOUS CHINA FLOOR MOUNTED, ELECTRONIC FLUSHOMETER HET VALVE TYPE, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, ADA COMPLIANT, 1.3 GPF, WITH WHITE FRONT SEAT AND NO COVER. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS. HURON WATER CLOSET
WCO	WALL CLEANOUT	2"	1-1/2"	--	--	CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.

MEDICAL GAS EQUIPMENT SCHEDULE	
MARK	DESCRIPTION
LAP-1	LOCAL AREA ALARM PANEL, C-SECTION: SERVICE: O ₂ YGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.
LAP-2	LOCAL AREA ALARM PANEL, NICU: SERVICE: O ₂ YGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.
LAP-3	LOCAL AREA ALARM PANEL, NICU: SERVICE: O ₂ YGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.
NOTE:	MECHANICAL CONTRACTOR SHALL INCLUDE REQUIRED MEDICAL GAS PRESSURE SWITCHES AND MEDICAL GAS ALARM WIRING BETWEEN PRESSURE SWITCHES, SOURCE EQUIPMENT, AND MEDICAL GAS ALARM PANELS. MEDICAL GAS ALARM PANEL TO BE BEACON MEDAESA MEGA 2 MED GAS ALARM PANEL. LAP'S SHALL BE COMPATIBLE AND INTEGRATED INTO EXISTING MASTER APS

MEDICAL GAS OUTLET SCHEDULE		NUMBER OF OUTLETS / BRANCH PIPE SIZE									
MARK	DESCRIPTION	O2		N2O		MA		MV		WAGD	
		QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE
A	CEILING OUTLETS - C-SECTION	2	1/2"	1	1/2"	1	1/2"	4	1"	1	3/4"
B	WALL OUTLETS - INFANT RESUSCITATION	3	1/2"	-	-	3	1/2"	3	3/4"	-	-
C	WALL OUTLETS - LDR	1	1/2"	-	-	-	-	1	3/4"	-	-
D	WALL OUTLETS - LDRP	1	1/2"	-	-	1	1/2"	1	3/4"	-	-
E	WALL OUTLETS - RECOVERY	1	1/2"	-	-	1	1/2"	3	3/4"	-	-
F	WALL OUTLETS - POST-PARTUM 1 - 12	1	1/2"	-	-	-	-	1	3/4"	-	-
G	WALL OUTLETS - POST-PARTUM 13- 15	1	1/2"	-	-	1	1/2"	1	3/4"	-	-
H	WALL OUTLETS - HEARING EXAM	1	1/2"	-	-	1	1/2"	1	3/4"	-	-
I	WALL OUTLETS - MINOR PROCEDURE	1	1/2"	-	-	-	-	1	3/4"	-	-
J	WALL OUTLETS - NICU	3	1/2"	-	-	3	1/2"	3	3/4"	-	-
NOTES	1. MEDICAL GAS SERVICE PIPE SIZE TO EACH OUTLET SHALL BE 1/2", EXCEPT MEDICAL VACUUM WHICH SHALL BE 3/4", UNLESS NOTED OTHERWISE. 2. SEE ARCHITECTURAL AND ELECTRICAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS AND ARRANGEMENTS OF OUTLETS. 3. REFER TO FLOOR PLANS FOR LOCATIONS OF LOCAL AREA ALARM PANELS AND ZONE VALVES. 4. PROVIDE VACUUM BOTTLE SLIDE BRACKETS AT EACH VACUUM WALL OUTLET (TYPICAL). 5. MEDICAL GAS PIPE SIZES BETWEEN MAIN SERVICE PIPE AND THE INDIVIDUAL OUTLET BRANCH PIPES SHALL BE THE SAME SIZE AS INDICATED FOR THE ASSOCIATED ZONE VALVE, UNLESS OTHERWISE NOTED										

MEDICAL GAS ZONE VALVE SCHEDULE		VALVE PIPE SIZE					REMARKS
MARK	DESCRIPTION	O2	N2O	MA	MV	WAGD	
1	C-SECTION ZONE VALVE	1/2	1/2	1/2	3/4	3/4	
2	LDR 1 - 8 ZONE VALVE	1/2	-	1/2	1-1/2	-	
3	LDRP 1 - 3 ZONE VALVE	1/2	-	1/2	1	-	
4	POST-PARTUM 1 - 7 ZONE VALVE	1/2	-	-	1-1/2	-	
5	POST-PARTUM 8 - 15 ZONE VALVE	1/2	-	1/2	1-1/2	-	
6	NICU ZONE VALVE	1/2	-	1/2	3/4	-	
7	NICU ZONE VALVE	1/2	-	1/2	3/4	-	
NOTES	1. SEE ARCHITECTURAL AND ELECTRICAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS AND ARRANGEMENT OF VALVES. 2. MEDICAL GAS PIPE SIZES BETWEEN MAIN SERVICE PIPE AND THE INDIVIDUAL OUTLET BRANCH PIPES SHALL BE THE SAME SIZE AS INDICATED FOR THE ASSOCIATED ZONE VALVE, UNLESS NOTED OTHERWISE.						



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
 GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 PROJECT TITLE: OWNER: SHEET TITLE:
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PLUMBING SCHEDULES

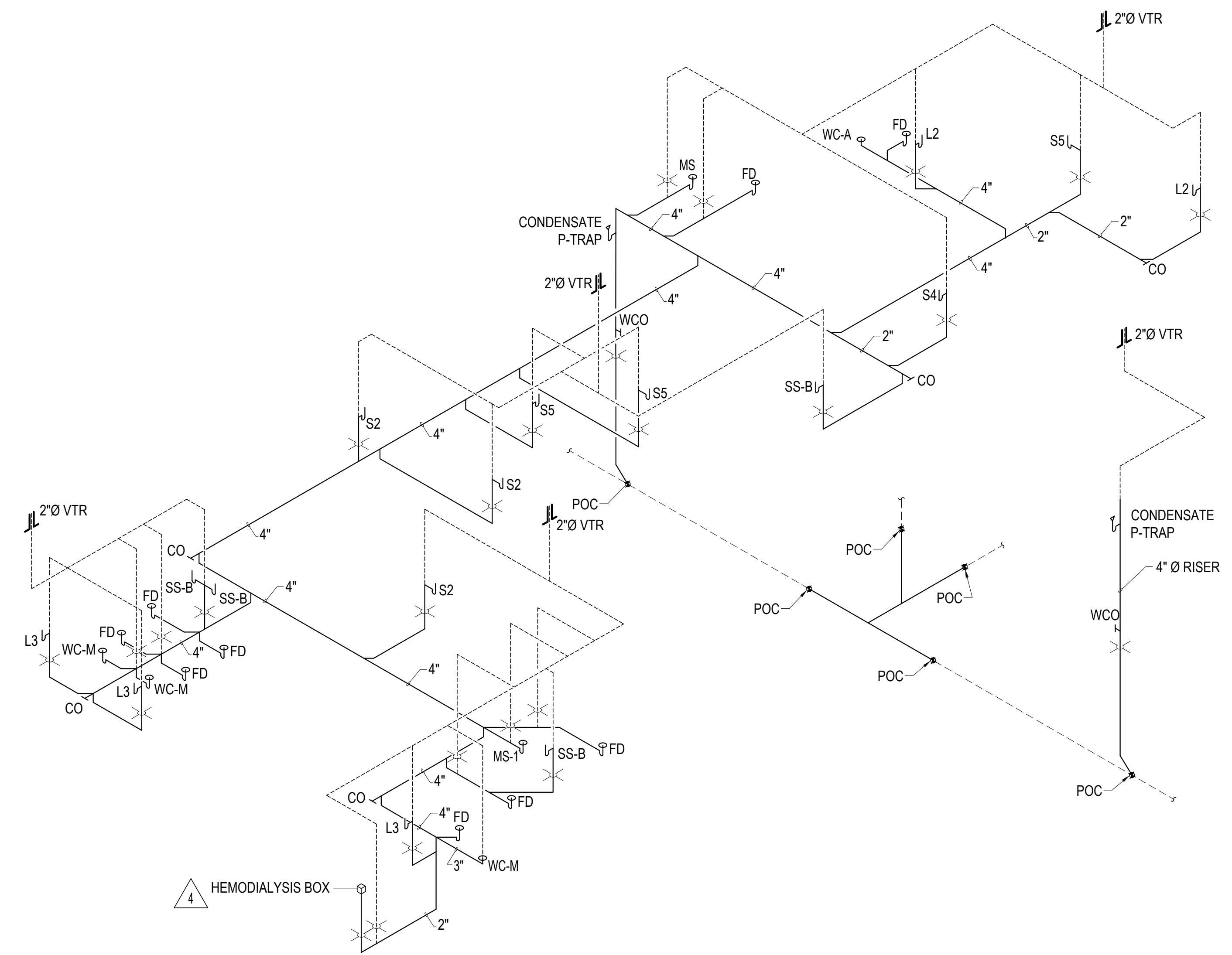
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CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.



1 P500 NTS PARTIAL SECOND FLOOR ISOMETRIC SANITARY WASTE & VENT



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DWG NO: P500

HVAC LEGEND			
	SUPPLY AIR		UNIT CONTROLLED ① OR ②
	RETURN AIR		ROOM THERMOSTAT OR SENSOR
	EXHAUST AIR		
	OUTSIDE AIR		
CONSTRUCTION STANDARDS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR FLOW DIRECTION		RECTANGULAR DUCT RISER
	RETURN/EXHAUST AIR FLOW DIRECTION		ROUND DUCT RISER
	VOLUME DAMPER		RECTANGULAR DUCT DROP
	MOTORIZED DAMPER W/ ACTUATOR AND ACCESS DOOR		ROUND DUCT DROP
	MOTORIZED DAMPER EXTERNAL TYPE		RECTANGULAR OFFSET LESS THAN 15°
	HALON DAMPER W/ ACTUATOR AND ACCESS DOOR		RECTANGULAR OFFSET W/ STANDARD FITTINGS (30,45,60)
	ELBOW WITH TURNING VANES		ROUND WYE
	RADIUS ELBOW		BELLMOUTH
	RECTANGULAR MAIN WITH RECTANGULAR BRANCH		CONICAL TEE
	CONCENTRIC SQUARE TO ROUND		ROUND MAIN DUCT WITH ROUND BRANCH
	EXECUTRIX (RECTANGULAR OR ROUND)		CONCENTRIC ROUND TRANSITION
	SQUARE TEE		FLEXIBLE CONNECTION
	DOUBLE FORMED TURNING VANES		ROUND DUCT LATERAL FITTING
	FIRE/SMOKE DAMPER AT FLOOR (HORIZONTAL)		RECTANGULAR MAIN WITH SIDEWALL GRD
	FIRE DAMPER AT FLOOR (HORIZONTAL)		RECTANGULAR MAIN WITH ROUND BRANCH
	FIRE DAMPER (VERTICAL)		FIRE/SMOKE DAMPER (VERTICAL)

HVAC ABBREVIATIONS	
SYMBOL	DESCRIPTION
ACC	ACCESSORIES
ACCU	AIR-COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AMP	AMPERE
BTU	BRITISH THERMAL UNITS
CAP	CAPACITY
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
COND	CONDENSER
CR	CEILING RETURN DIFFUSER
CTG	CEILING TRANSFER DIFFUSER
CU	CONDENSING UNIT
CS	CIRCUIT SETTER
DH	DUCT HEATER
DIA	DIAMETER
DN	DOWN
E	EXISTING
EF	EXHAUST FAN ELEVATION
ELEV	ELEVATION
F	FAN COIL UNIT
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
HP	HORSE POWER
HTR	HEATER
GA	GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
LB	POUNDS
LS	LINEAR SLOT DIFFUSER
LR	LINEAR RETURN DIFFUSER
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MFG	MANUFACTURER
MT	MOUNT
NEW	N
OBD	OPPOSED BLADE DAMPER ON CENTER
OC	ON CENTER
OPR	OPERATING
OSA	OUTSIDE AIR
PH	PHASE
PTAC	BELOW WINDOW HEAT PUMP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RD	ROOF DRAIN
RH	HUMIDITY
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
	SMOKE DETECTOR
SA	SUPPLY AIR
SWE	SIDEWALL EXHAUST GRILLE
SWS	SIDEWALL SUPPLY REGISTER
SF	STATIC PRESSURE
SQFT	SQUARE FOOT
SURF	SURFACE
SWR	SIDEWALL RETURN GRILLE
SWT	SIDEWALL TRANSFER GRILLE
THRU	THROUGH
	TIE IN POINT
TSTAT	THERMOSTAT
TYP	TYPICAL
VAV	VARIABLE VOLUME
V	VOLTS
	UNDER CUT DOOR 1°

- ### GENERAL NOTES
- DO NOT SCALE DRAWINGS. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF COMPONENTS.
 - DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL SIZE AND LOCATION OF EQUIPMENT, DUCT WORK AND PIPING MAY VARY DUE TO MANUFACTURER OR FIELD CONDITIONS. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE AND ACCESSIBILITY AS REQUIRED BY MANUFACTURERS.
 - INSTALLATION SHALL COMPLY WITH THE GOVERNING CODES AND REGULATIONS. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS AND GUAM BUILDING ENERGY CODE.
 - ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
 - ACCESS PANELS IN HARD CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. CONCEALED HARD CEILING REGULATORS MAY BE USED IN HARD CEILINGS IN LIEU OF ACCESS PANELS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE MOST RECENT REVISION OF THESE PLANS AND SUBMITTALS PRIOR TO CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR FAILURE TO REVIEW AND CLARIFY ANY DISCREPANCIES. SEE ELECTRICAL PLANS FOR POWER AND CONTROL REQUIREMENTS.
 - ALL TEMPORARY UTILITY SYSTEM SHUT OFF AND WORK SHALL BE DONE ACCORDING TO THE PHASING PLAN TO AVOID DISCONTINUITY OF SERVICES TO MATERNITY WARD.

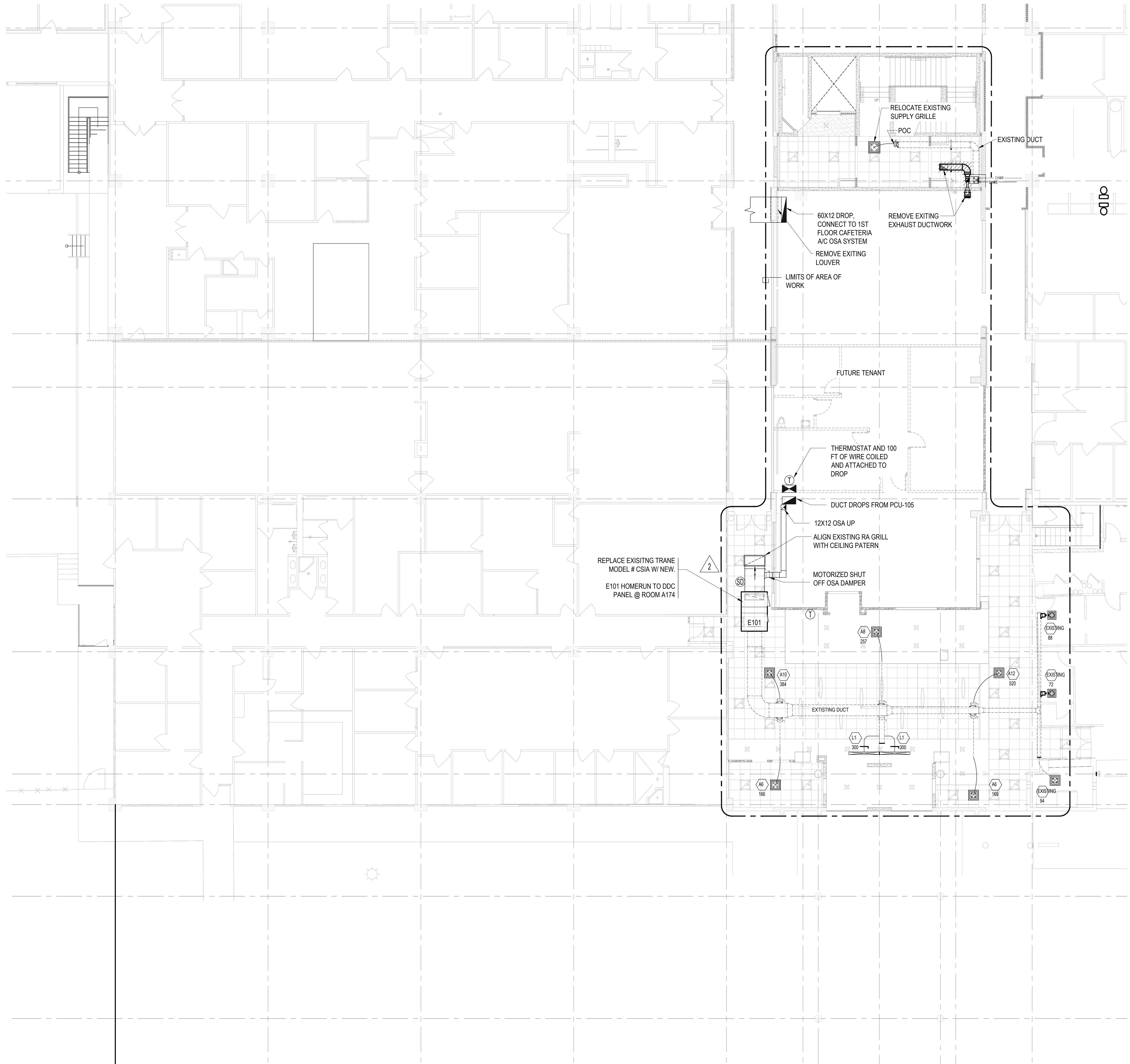
- ### EQUIPMENT NOTES
- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
 - PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
 - ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
 - ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 15'-0" FROM EXHAUST FANS AND / OR VENTS.
 - HVAC UNITS SHALL BE MOUNTED LEVEL ON FACTORY CURBS OR CONCRETE PADS AND RESTRAINED FOR SEISMIC CATEGORY D AND 170 MPH WIND LOAD.
 - ALL UTILITY PIPING/CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
 - OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL HAVE MOTORIZED DAMPERS THAT CLOSE WHEN THE SYSTEM IS SHUT OFF, DURING BUILDING WARM-UP, COOL DOWN AND/OR SETBACK.
 - MOTORIZED OUTDOOR AND EXHAUST DAMPERS SHALL HAVE A MAXIMUM LEAK RATE OF 4 CFM PER SQFT @ 1" WG PER AMCA 500-1998, EXCEPT PACKAGED EQUIPMENT SHALL BE 20 CFM/FT @ 1" WG.

- ### HVAC NOTES
- CONCEAL ALL DUCTWORK INSIDE WALLS AND/OR ABOVE CEILINGS, UNO.
 - DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS. SUPPORT DUCT WORK PER CODE. SEAL DUCTWORK PER RS-18, 1/2" SP TO 1" SP SEAL TRANSVERSE JOINTS.
 - THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN. DUCT SIZES ARE NET INSIDE DIMENSIONS.
 - DUCTS SHALL BE INSULATED AND SEALED PER GUAM ENERGY CODE. INTERIOR DUCTS SHALL BE INSULATED ABOVE THE BUILDING BARRIER.
 - ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKE-OFFS FOR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS.
 - LINE FIRST 10 FT OF SUPPLY, RETURN AND EXHAUST DUCTS FOR SOUND.
 - ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX.
 - PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.
 - THERMOSTAT TO BE 7 DAY PROGRAMMABLE UNLESS NOTIFIED OTHERWISE. MOUNT THERMOSTAT AT 48" A.F.F..
 - HUMIDITY SENSOR TO BE MOUNTED IN RETURN AIR DUCT OF EACH DUCTED A/C UNIT.
 - SMOKE DETECTORS SHALL BE INSTALLED IN RETURN DROP AND SHALL DEACTIVATE THE EQUIPMENT UPON SENSING SMOKE. SMOKE DETECTOR SHALL BE INSTALLED IN RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS. SMOKE DETECTORS REQUIRED IN ALL SYSTEMS >2000 CFM. ALL AIR MOVING SYSTEMS >2000 CFM SHALL BE EQUIPPED WITH AUTOMATIC SHUTOFF
 - FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C.

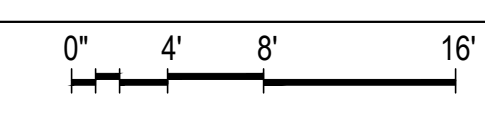
4

CONSTRUCTION NOTES:

- EXISTING AHU E101 TO BE REPLACED. SEE SCHEDULE FOR EQUIPMENT SIZE.
- COORDINATE WITH HOSPITAL TO REPLACE EXISTING AHU DUCTING IF NEEDED BY CONSTRUCTION EFFORT.



1 PARTIAL FIRST FLOOR MECHANICAL PLAN
M101 1/8" = 1'-0"



RIM ARCHITECTS
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WILLIAM P. LEE
No. 1445
MECHANICAL
Exp. 08.08.2020
4-29-19
AS DEFINED IN GUAM PUBLIC LAW 30-26, SECTION 20116

PERMIT SET

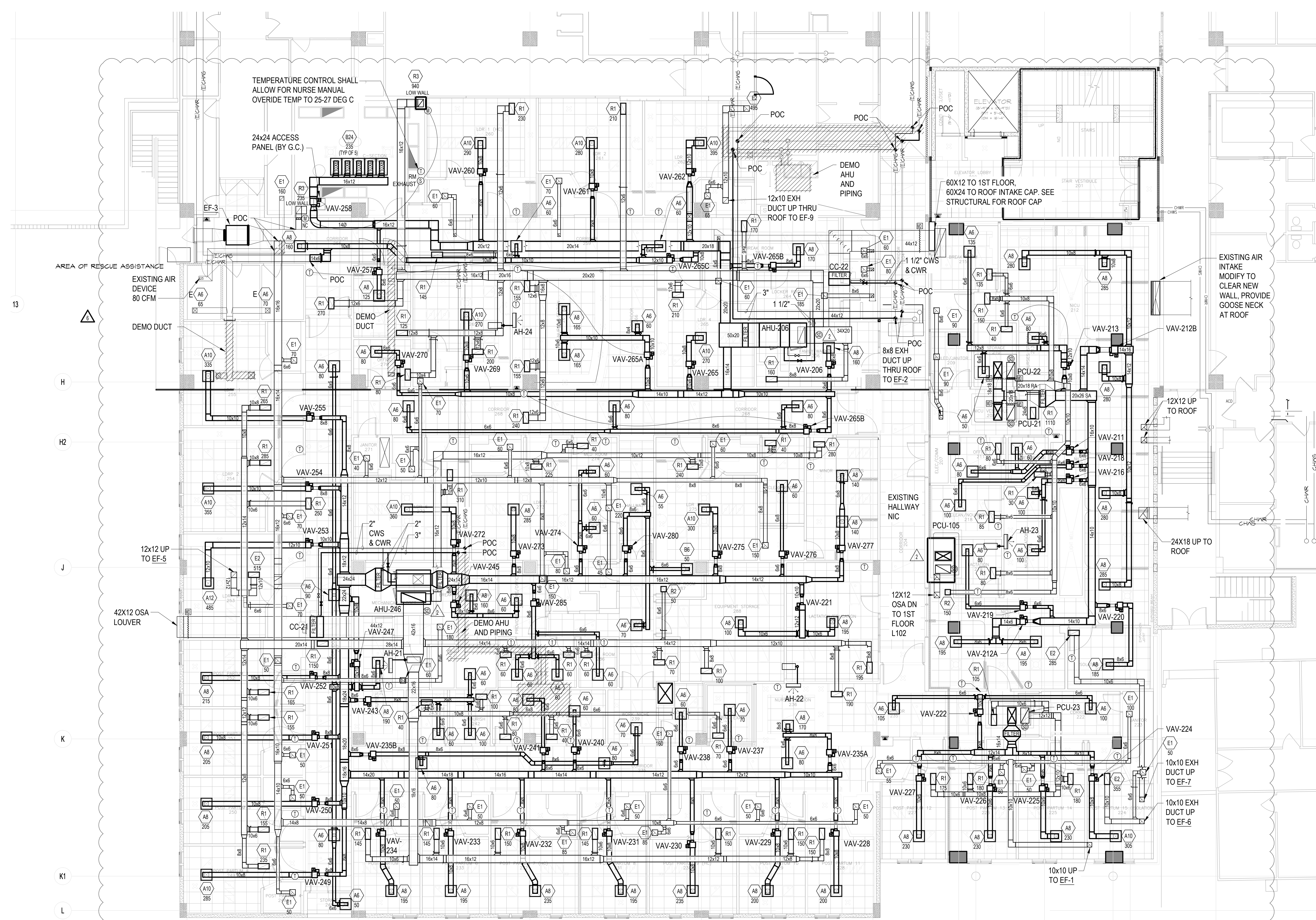
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GMHA FAMILY BIRTH CENTER
850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
GUAM MEMORIAL HOSPITAL AUTHORITY
PARTIAL 1ST FLOOR MECHANICAL PLAN

PROJECT TITLE: OWNER: SHEET TITLE:

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2	8-1-16	DPW
1	10-27-16	IFC

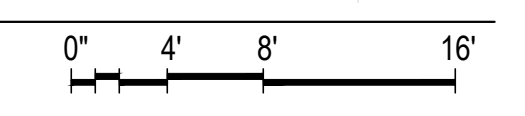
DATE : 2015.08.31
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DWG NO: M101



NOTE:
ALL CONDENSATE DRAINS TO TERMINATE AT INDIRECT DRAIN AT NEAREST PLUMBING CONNECTION.

1 PARTIAL SECOND FLOOR MECHANICAL PLAN
M201 1/8" = 1'-0"

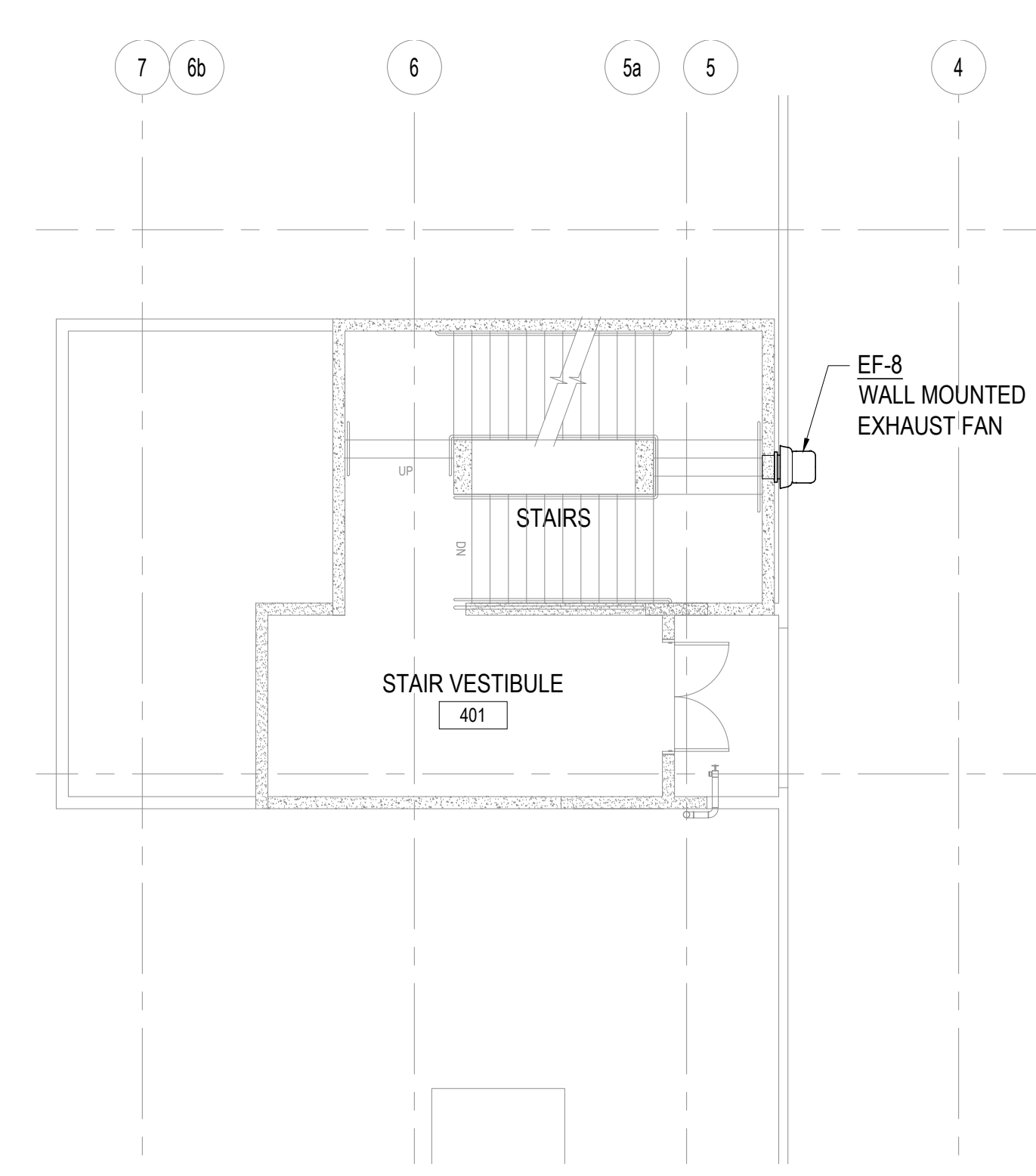
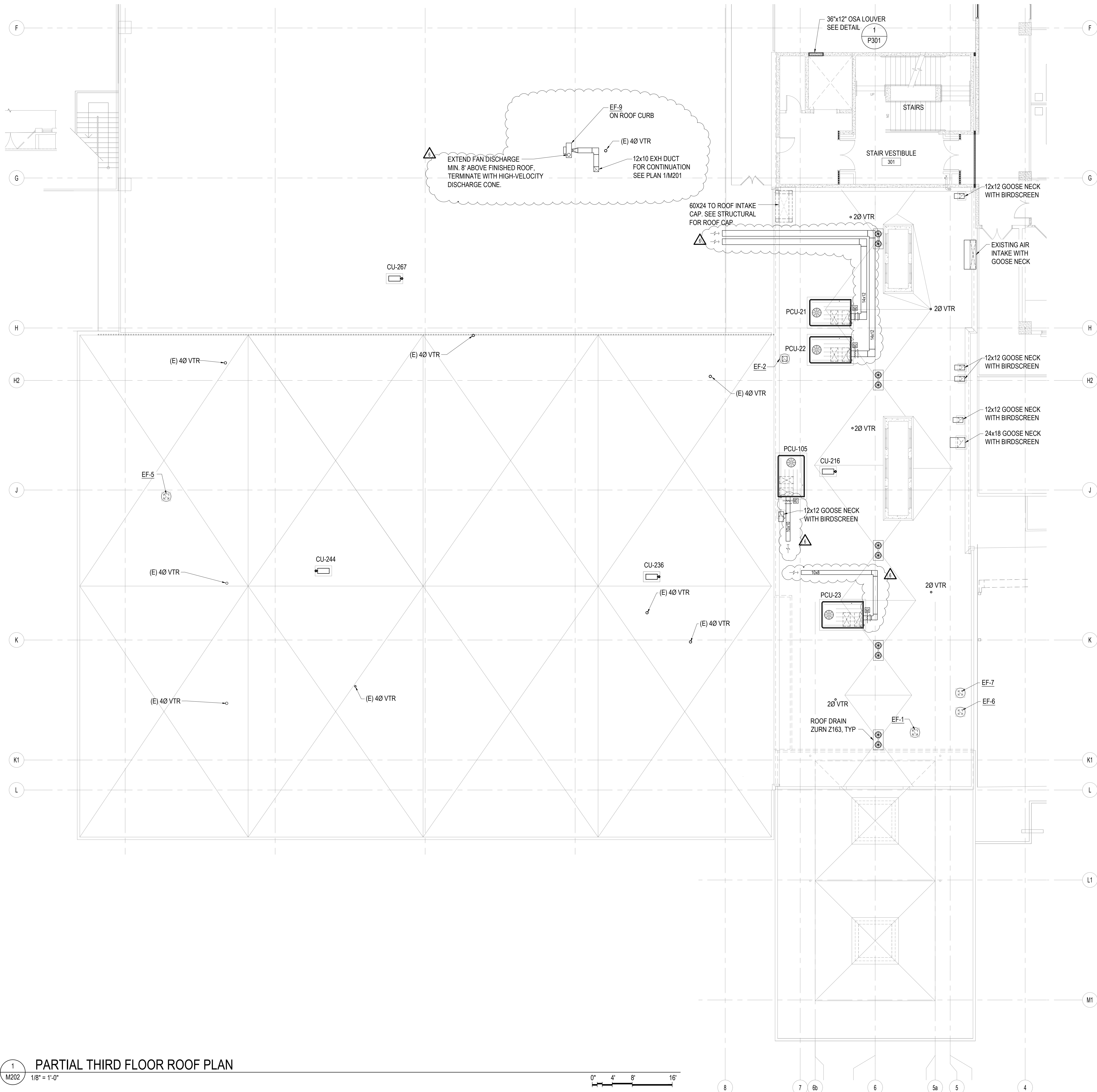


PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
GUAM MEMORIAL HOSPITAL AUTHORITY
PARTIAL SECOND FLOOR MECHANICAL PLAN

PROJECT TITLE	OWNER	SHEET TITLE
6	12-15-17	SEATTLE UPDATE
5	03-05-17	BKGN UPDATE
2	8-1-16	DPW
1	10-27-16	IFC
MARK	DATE	DESCRIPTION
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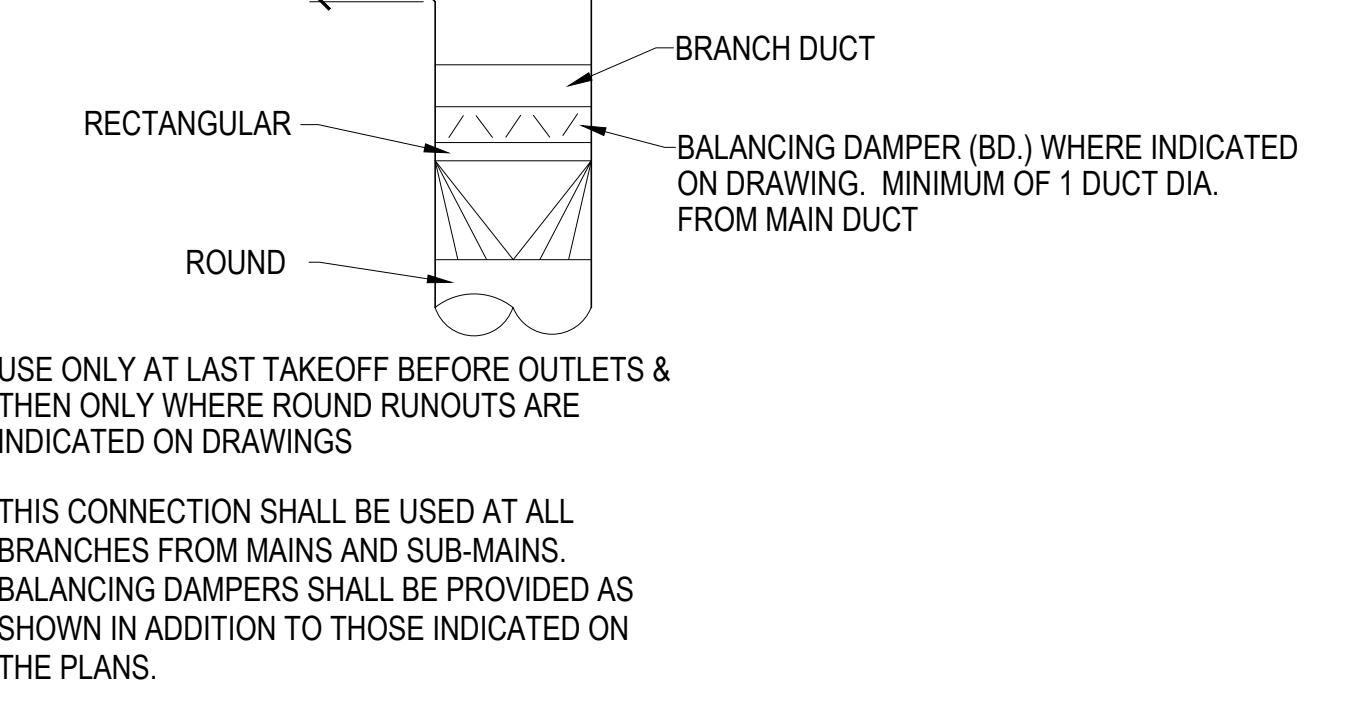
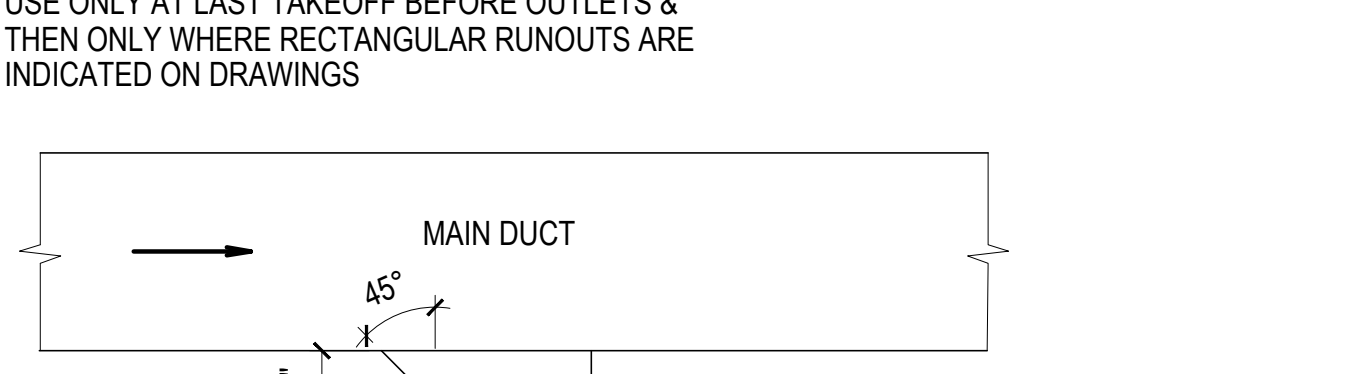
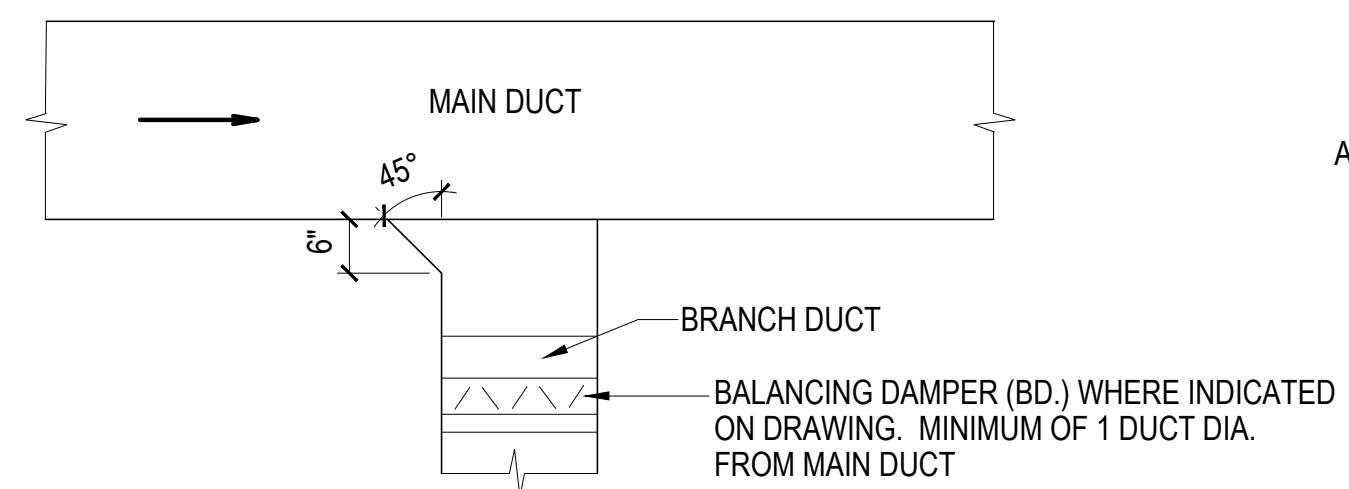
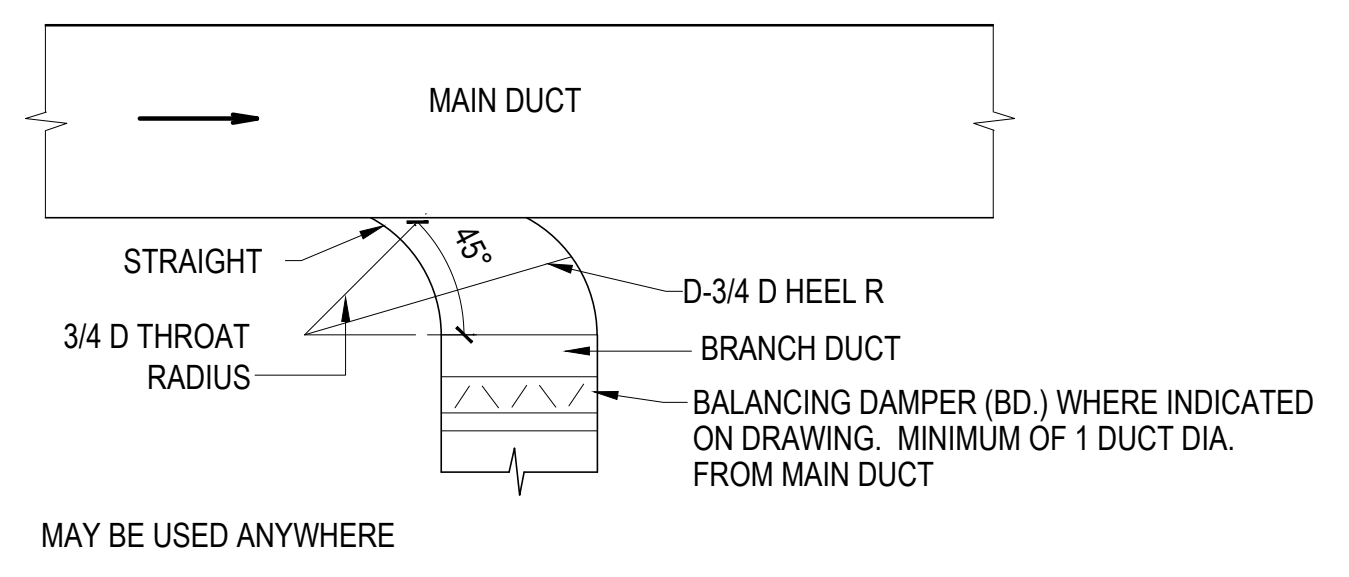
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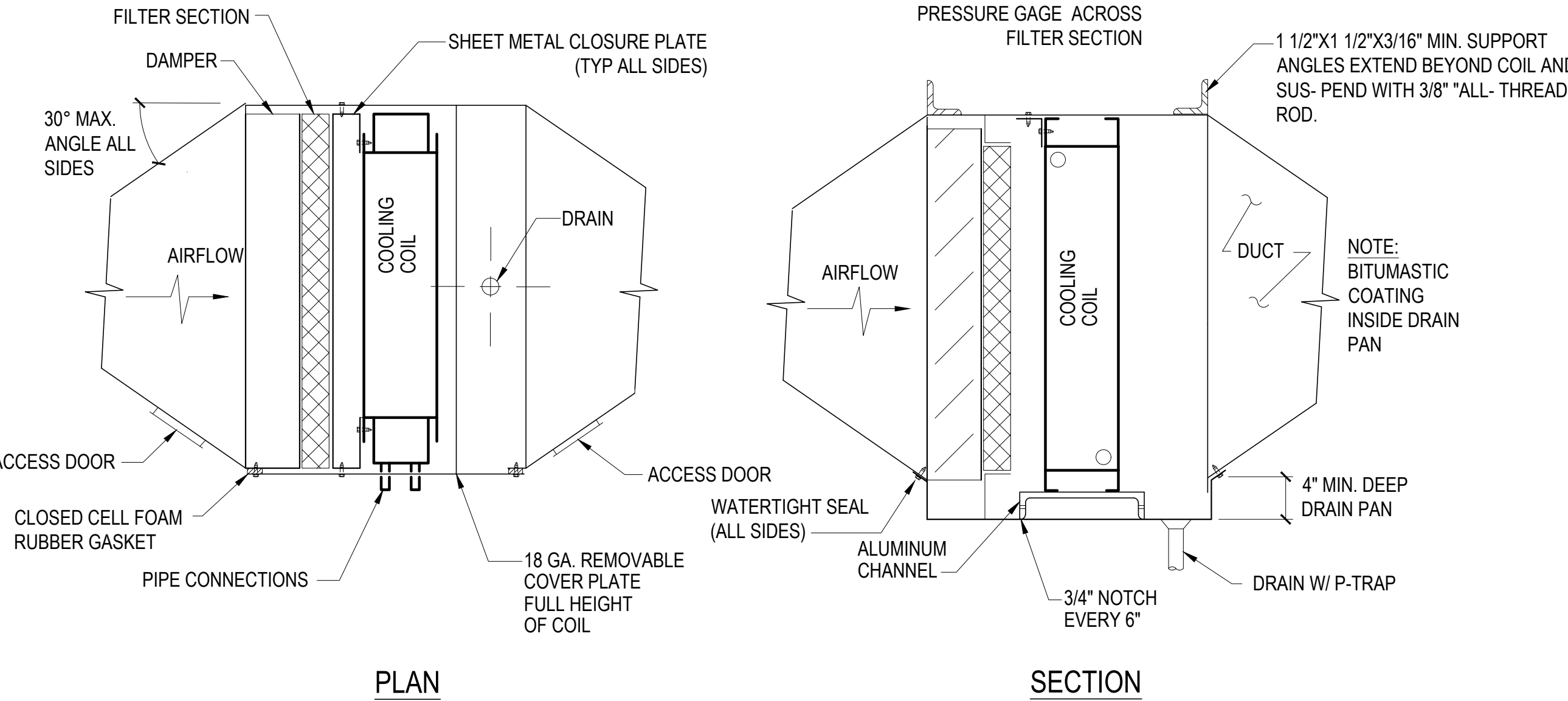
2 PARTIAL FIFTH FLOOR PLAN
 M202 1/8" = 1'-0" 0' 4' 8' 16"

1 PARTIAL THIRD FLOOR ROOF PLAN
 M202 1/8" = 1'-0" 0' 4' 8' 16"

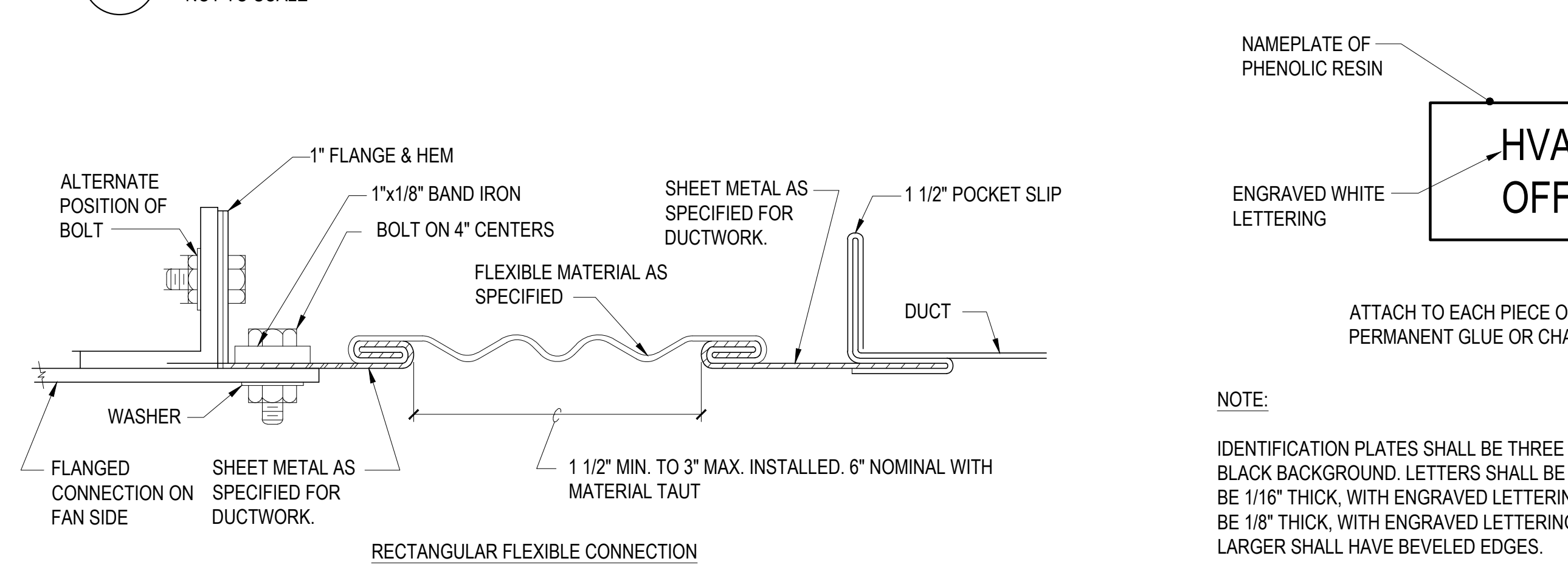
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5	03-05-17	BKGN UPDATE
MARK	DATE	DESCRIPTION
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DWG NO:	M202	



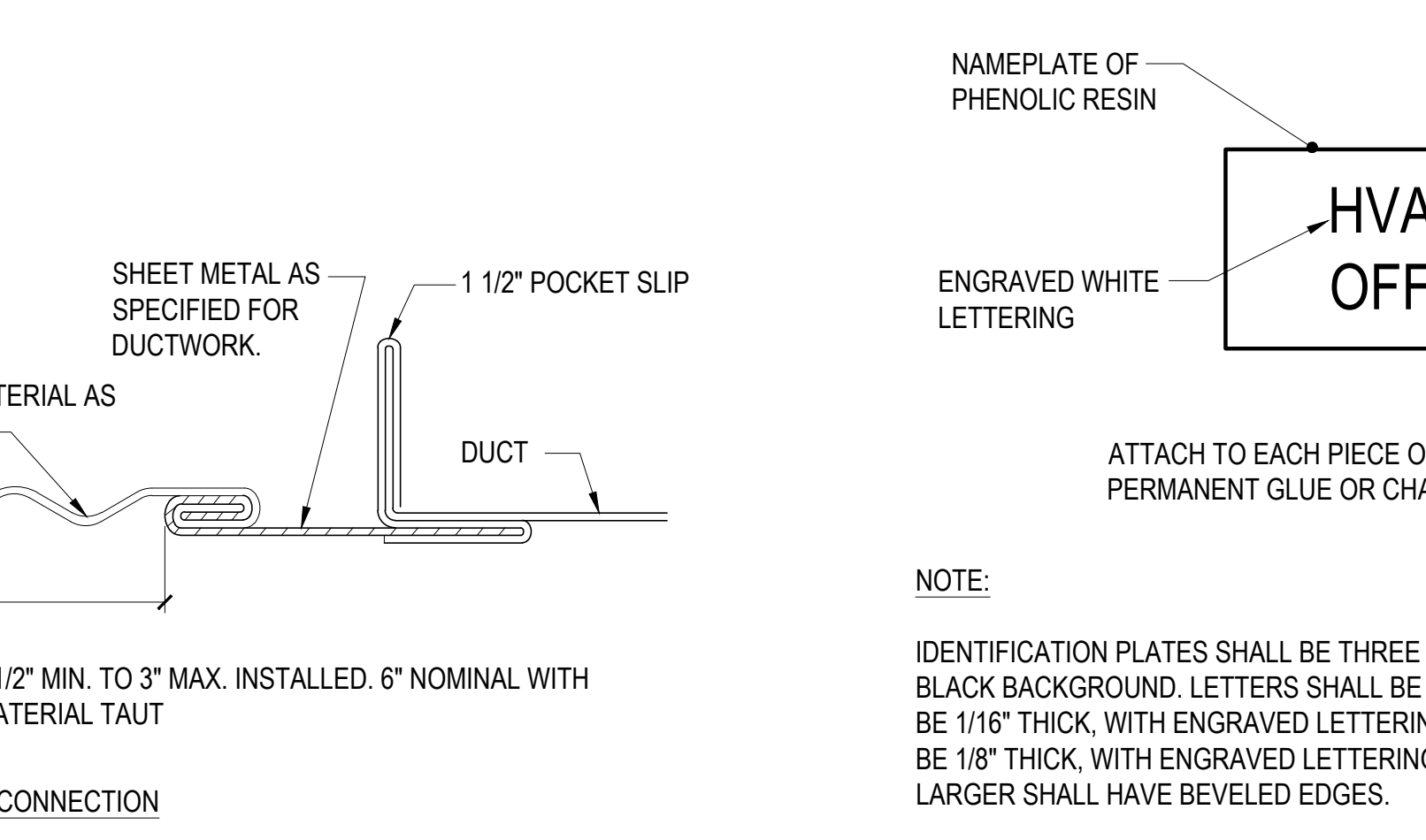
1 BRANCH CONNECTION DETAILS
M300 NOT TO SCALE



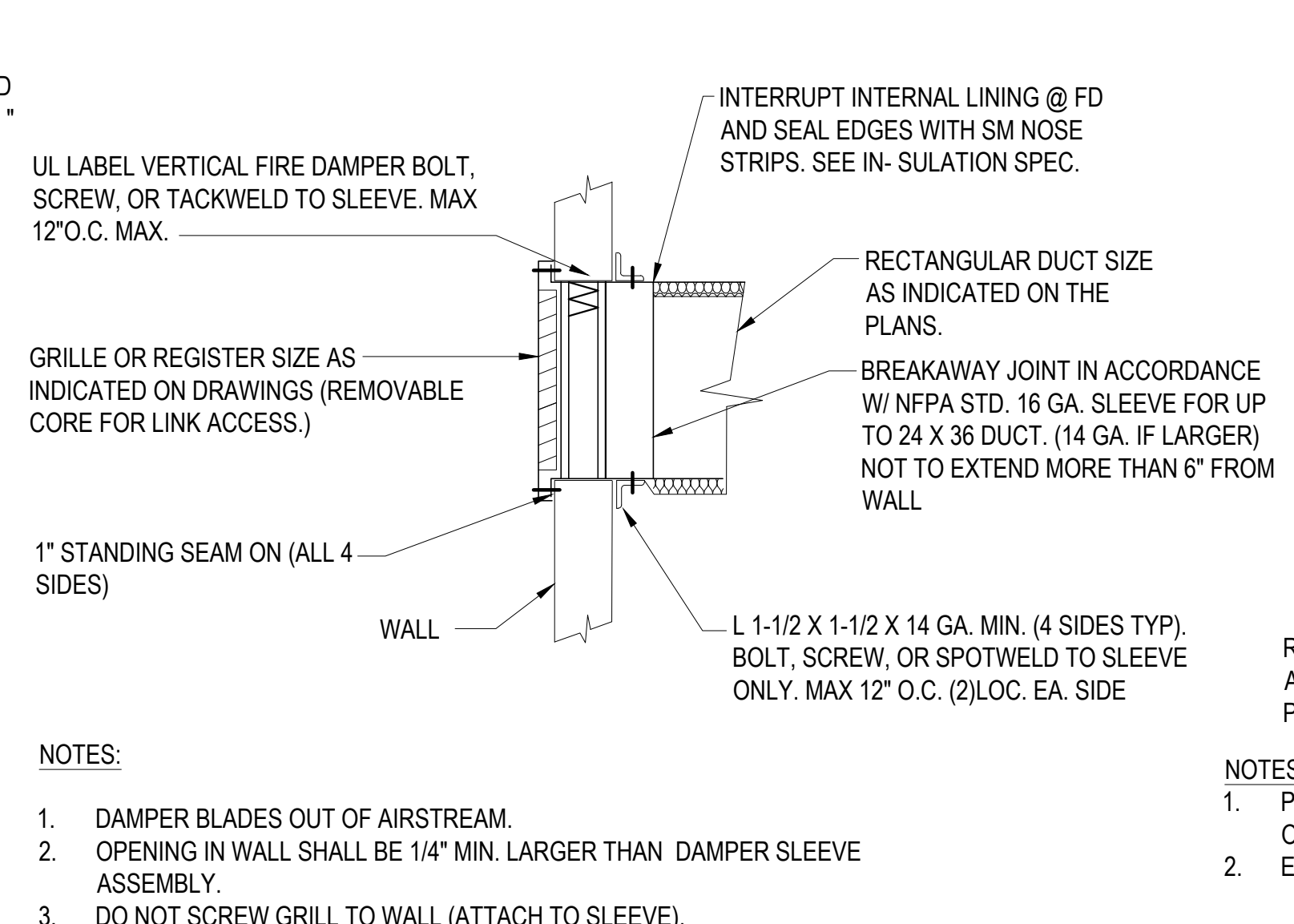
2 DUCT MOUNTED PRE-COOLING COIL DC-1 / DC-2
M300 NOT TO SCALE



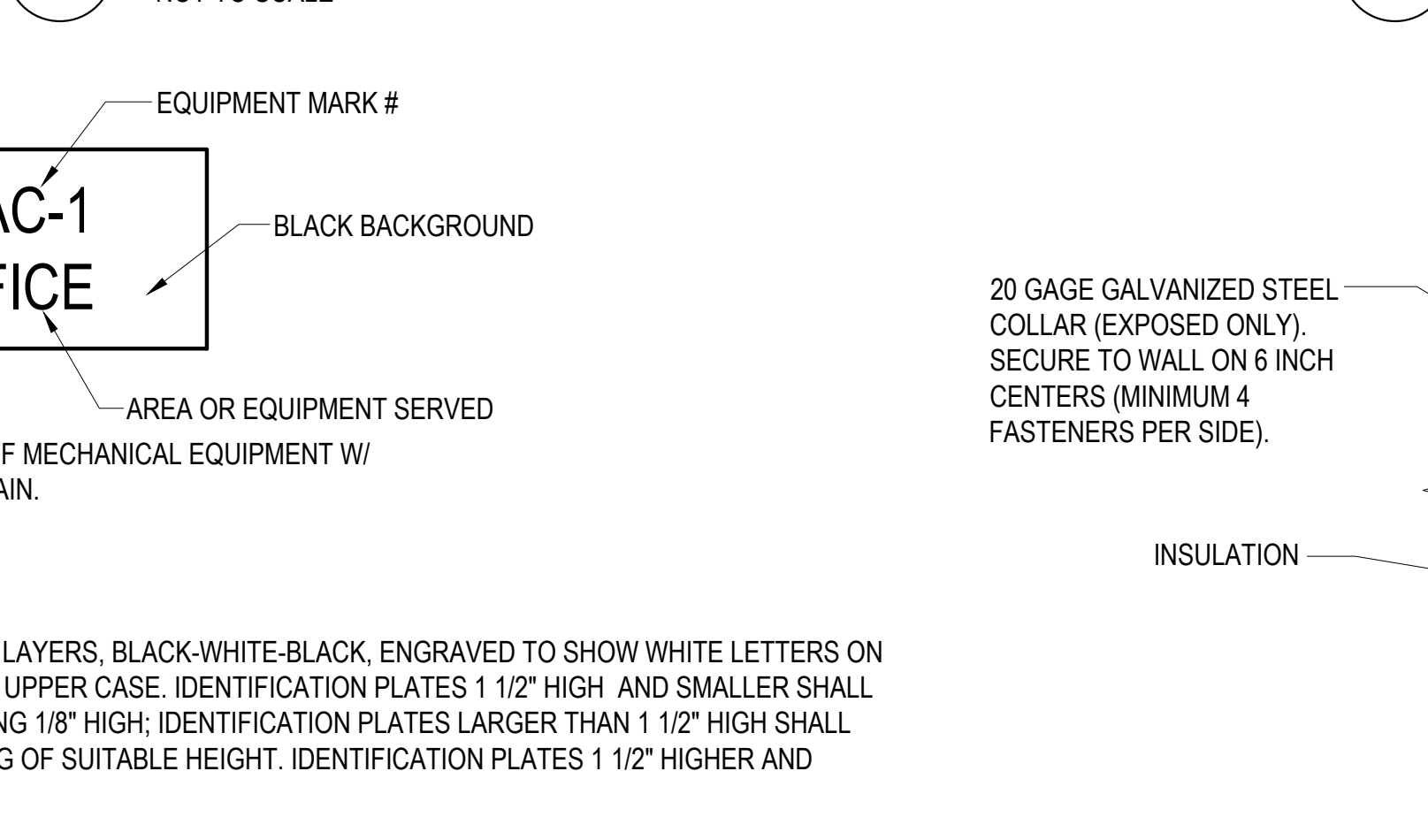
5 AHU DUCT CONNECTION DETAIL
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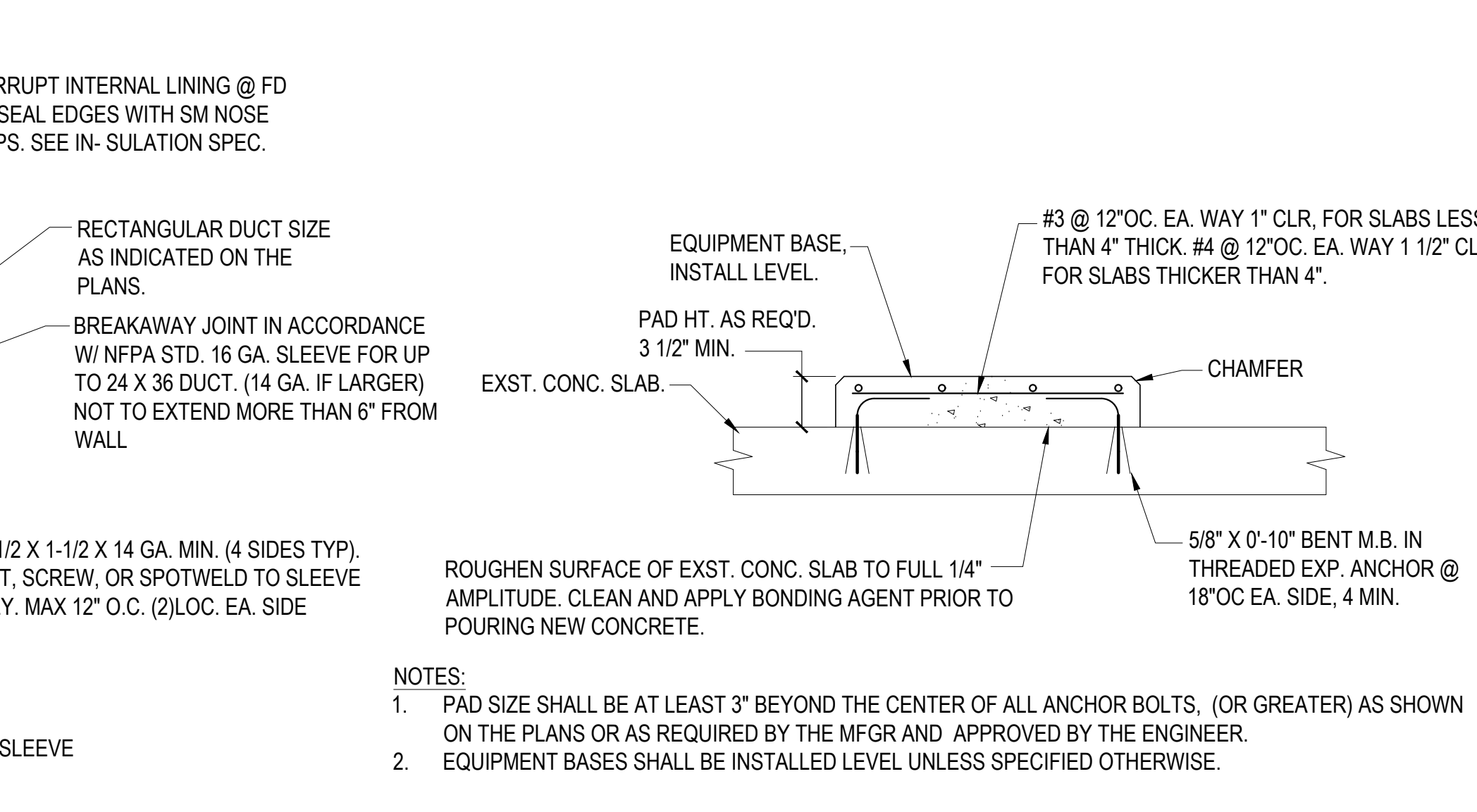
6 EQUIPMENT NAME PLATE DETAIL
M300 NOT TO SCALE



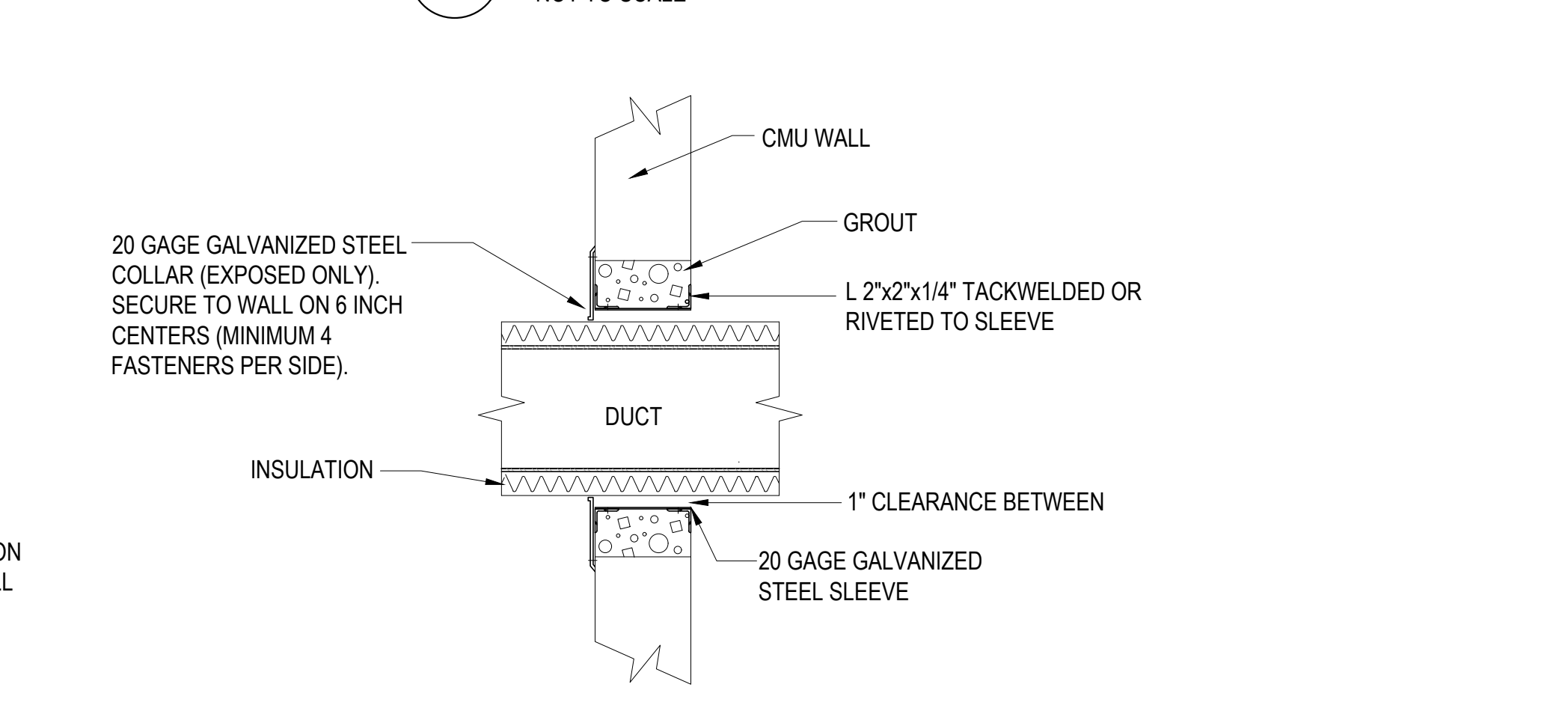
8 MANUAL DAMPER DETAIL
M300 NOT TO SCALE



9 FIRE DAMPER DETAIL
M300 NOT TO SCALE

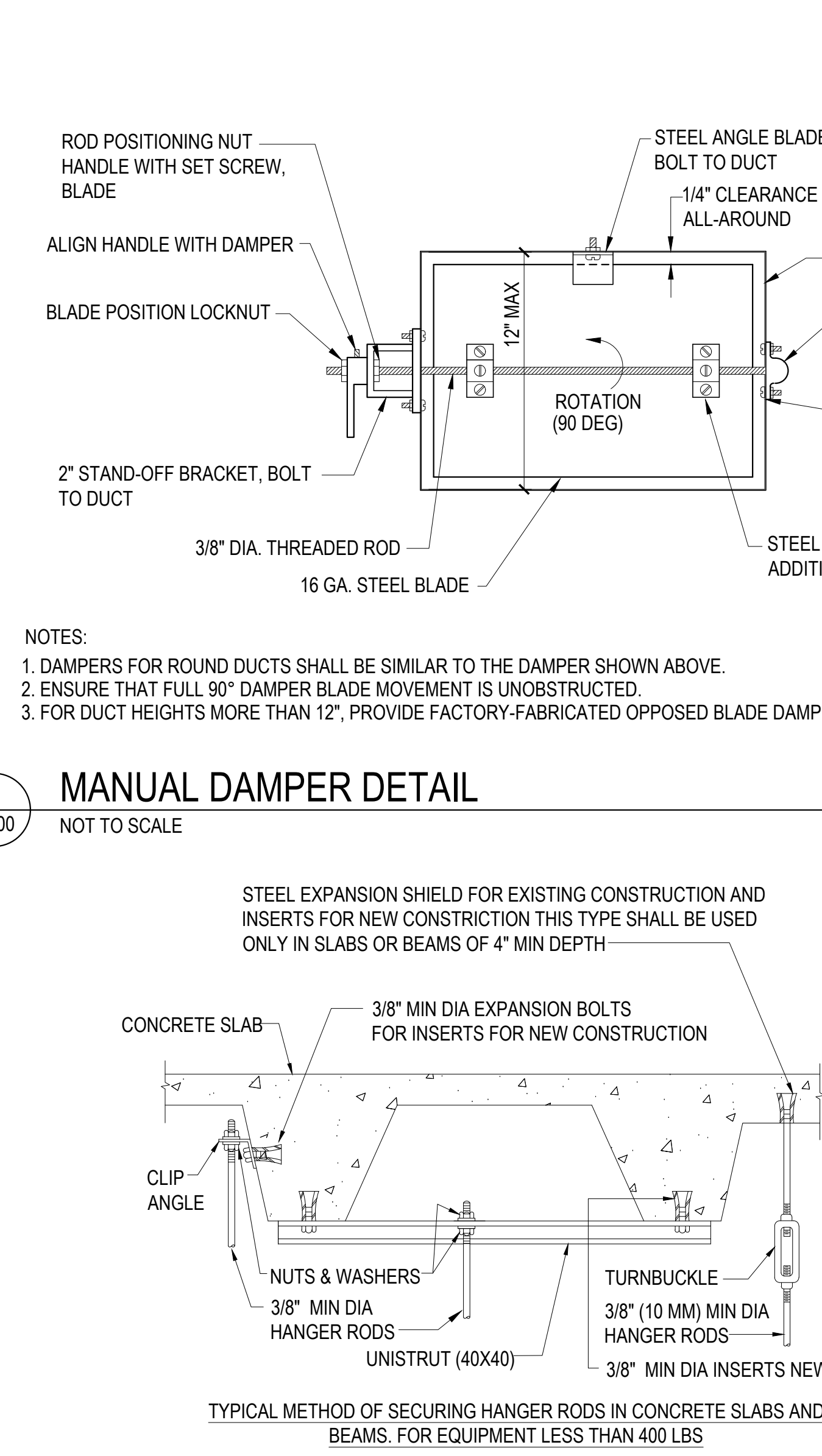


10 UV DISINFECTION UNIT DETAIL
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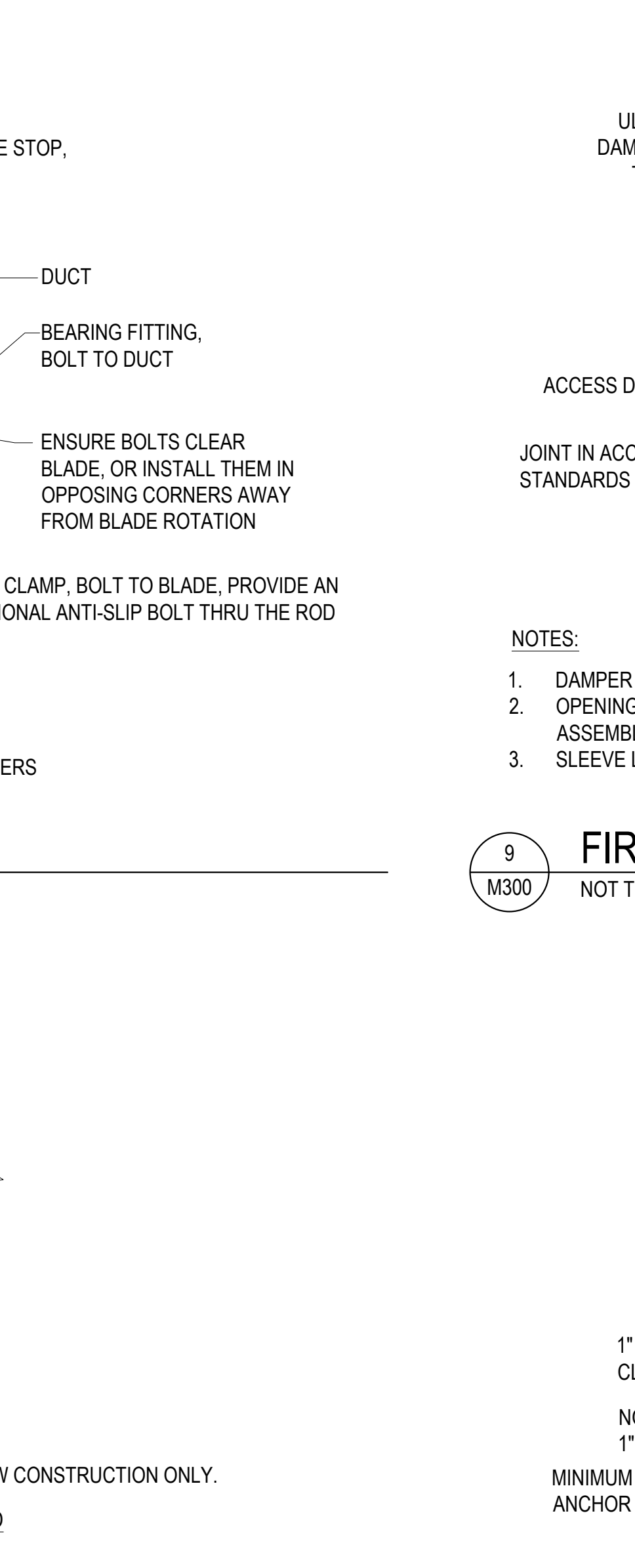


11 CHILLED WATER COIL PIPING DETAIL
M300 NOT TO SCALE

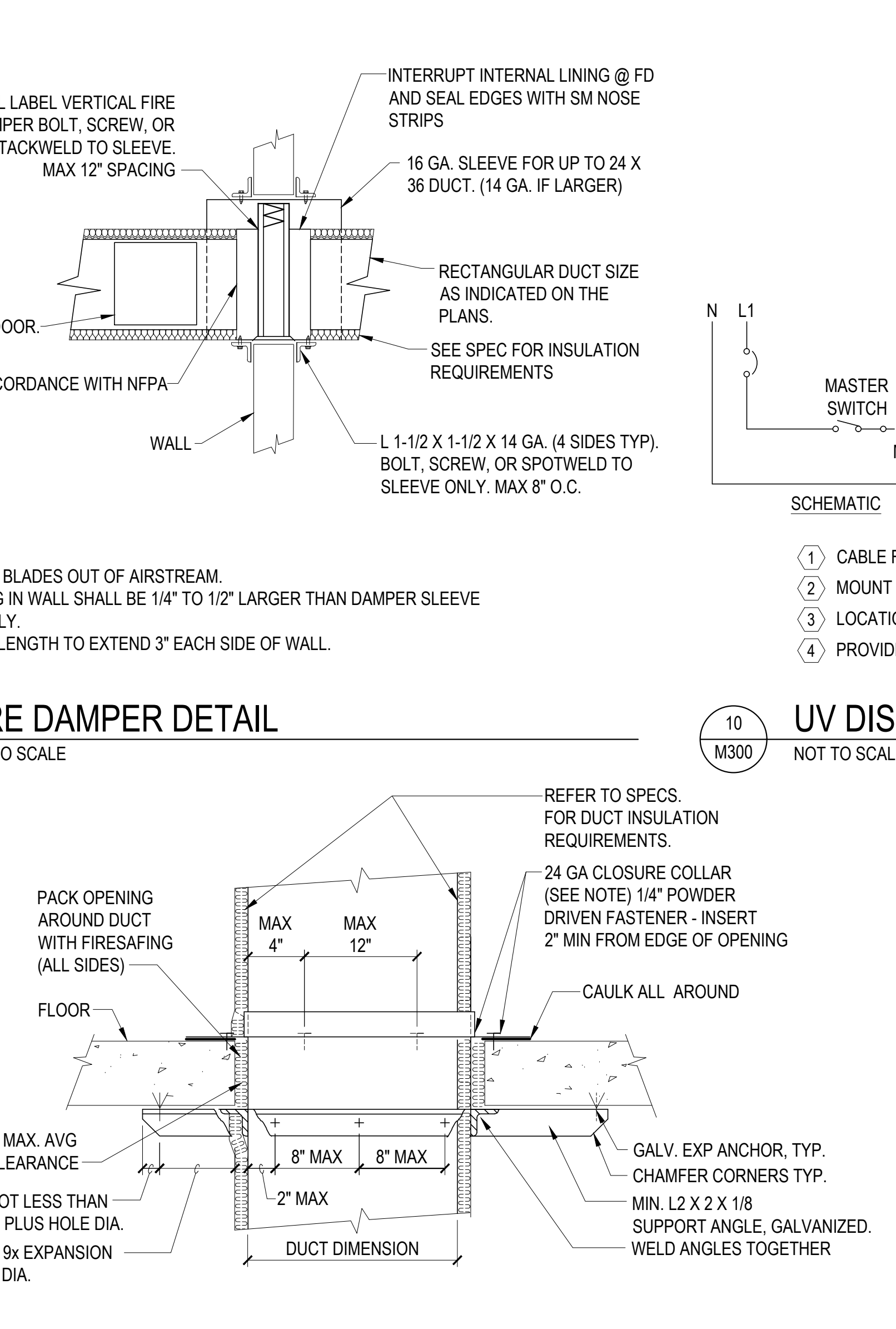
12 HANGER ATTACHMENT DETAIL
M300 NOT TO SCALE



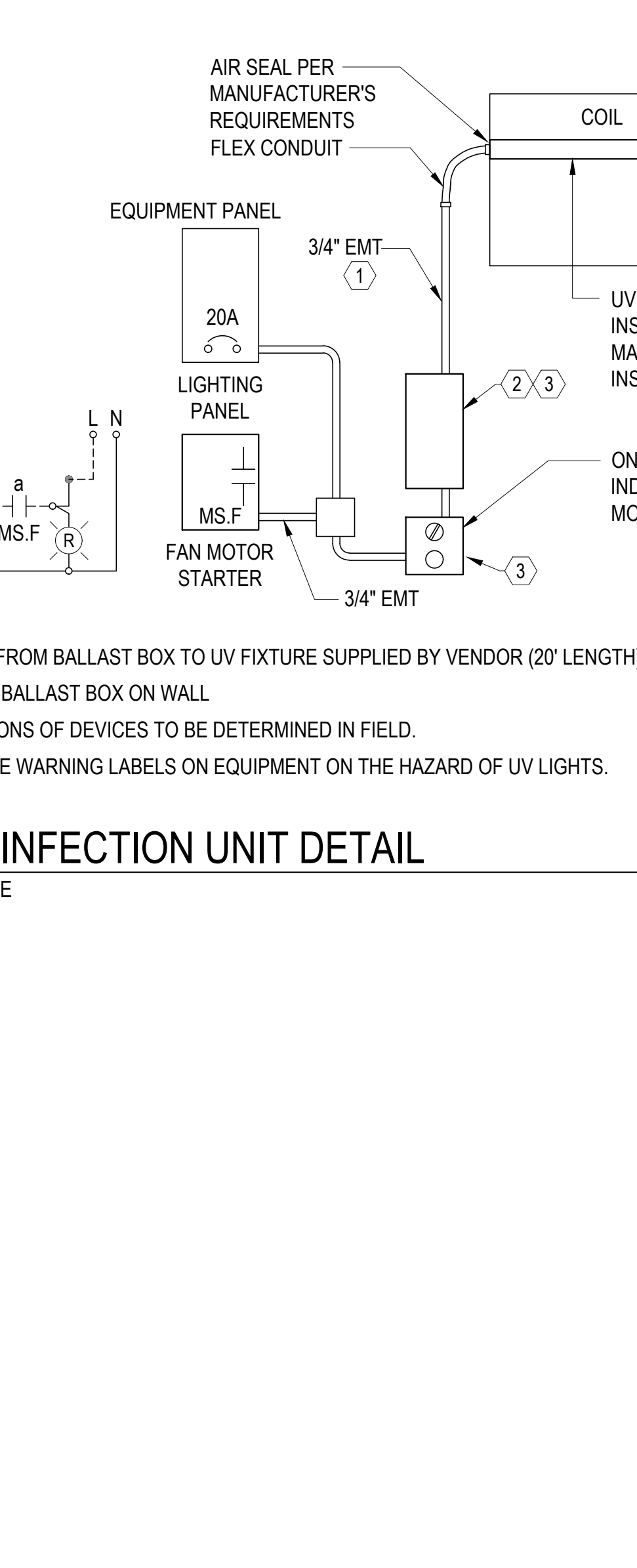
13 RECTANGULAR DUCT FLOOR PENETRATION
M300 NOT TO SCALE



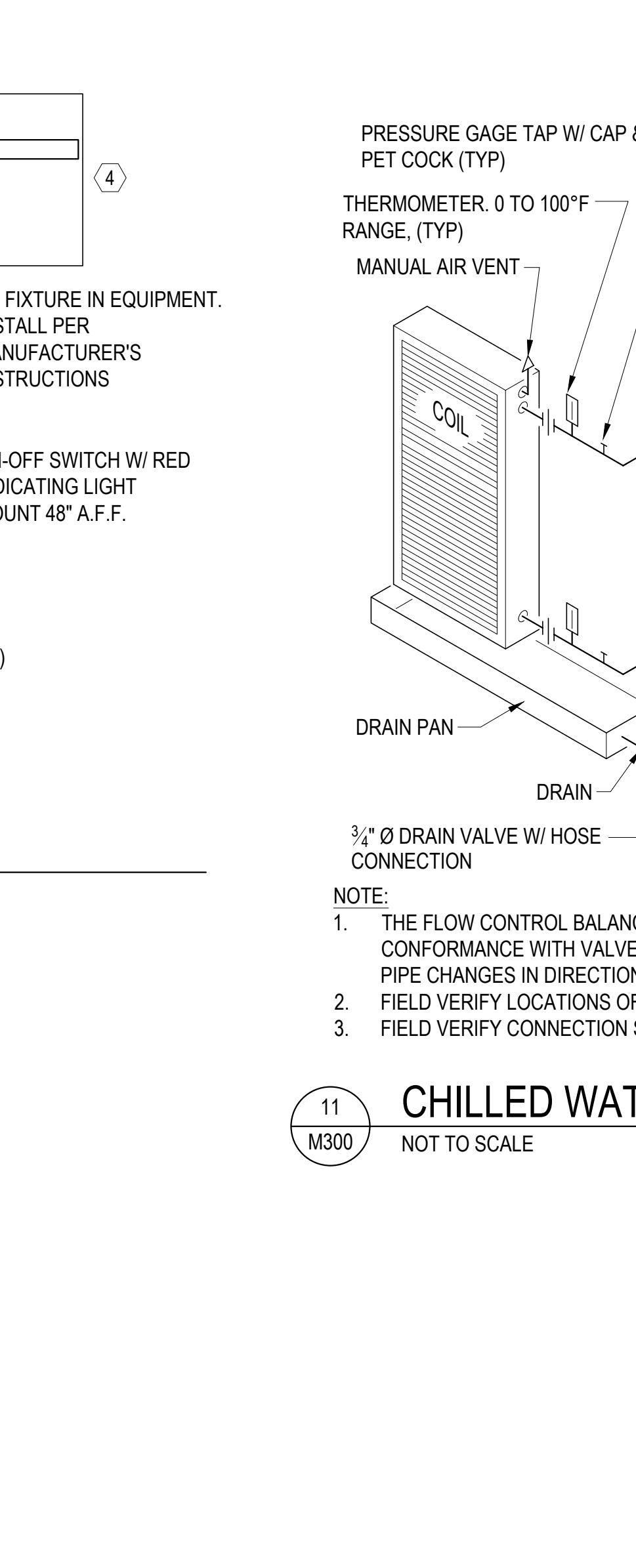
14 EQUIPMENT DETAIL
M300 NOT TO SCALE



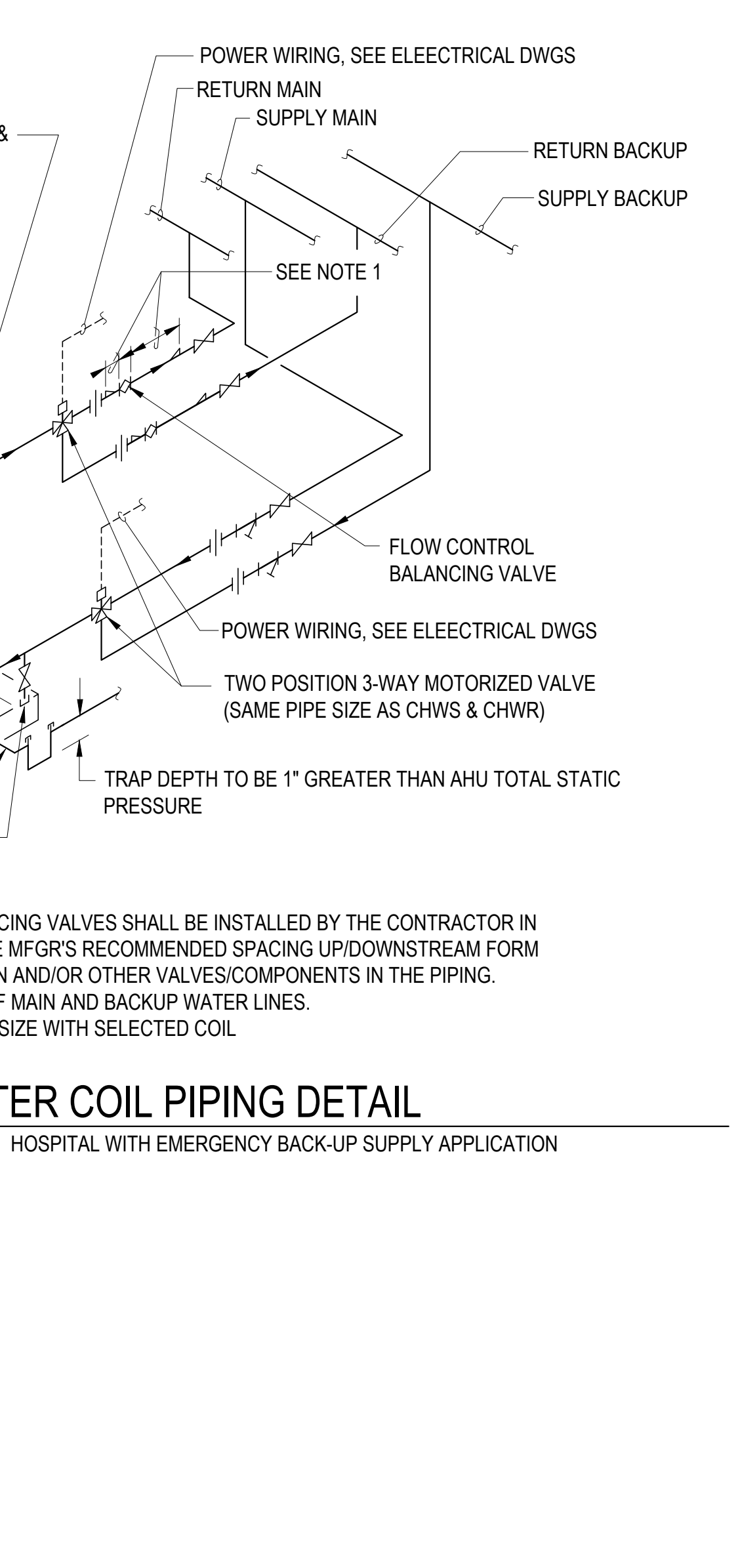
15 DUCT THRU FIRE RATED WALL DETAIL
M300 NOT TO SCALE



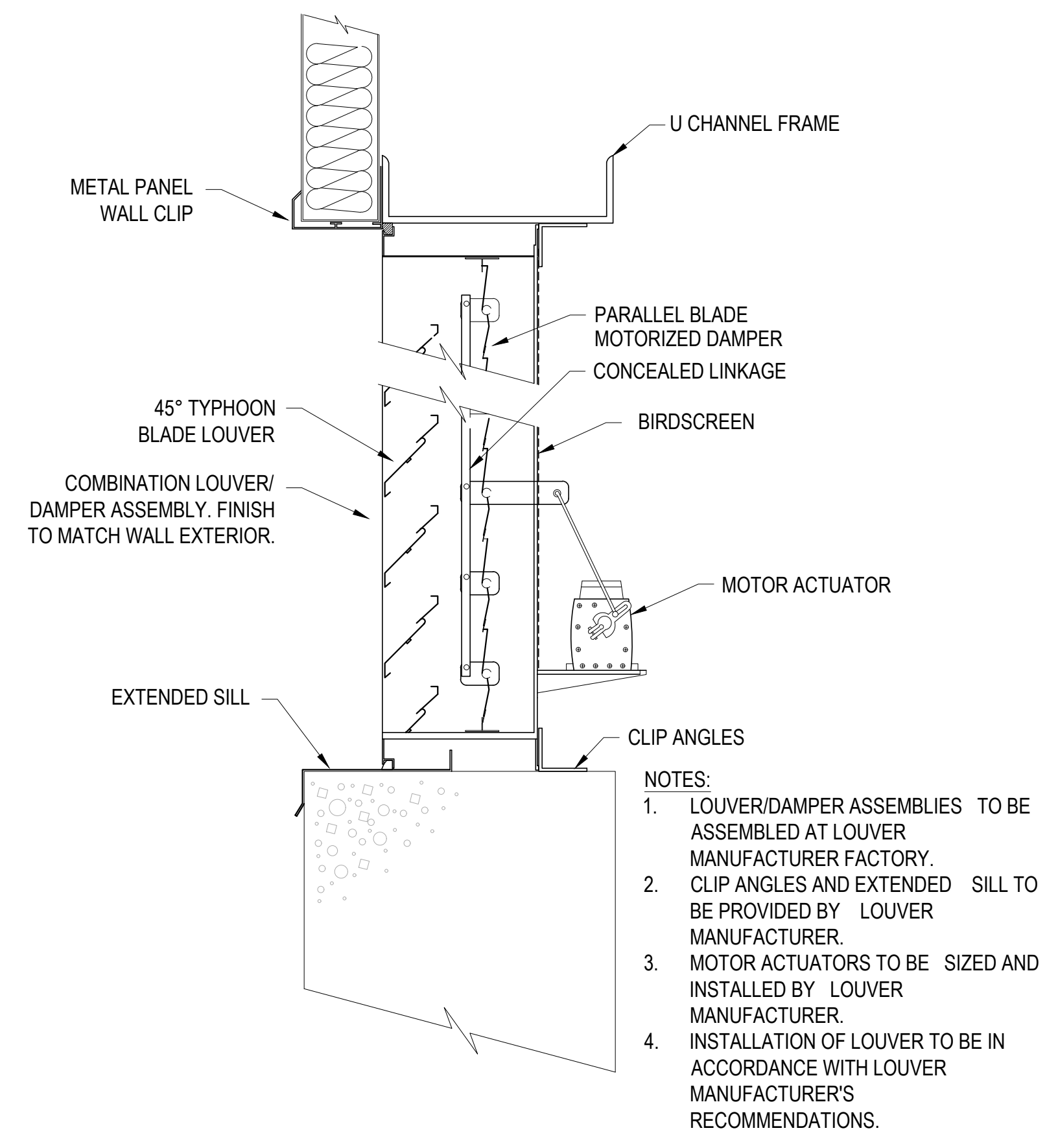
16 BRANCH CONNECTION DETAILS
M300 NOT TO SCALE



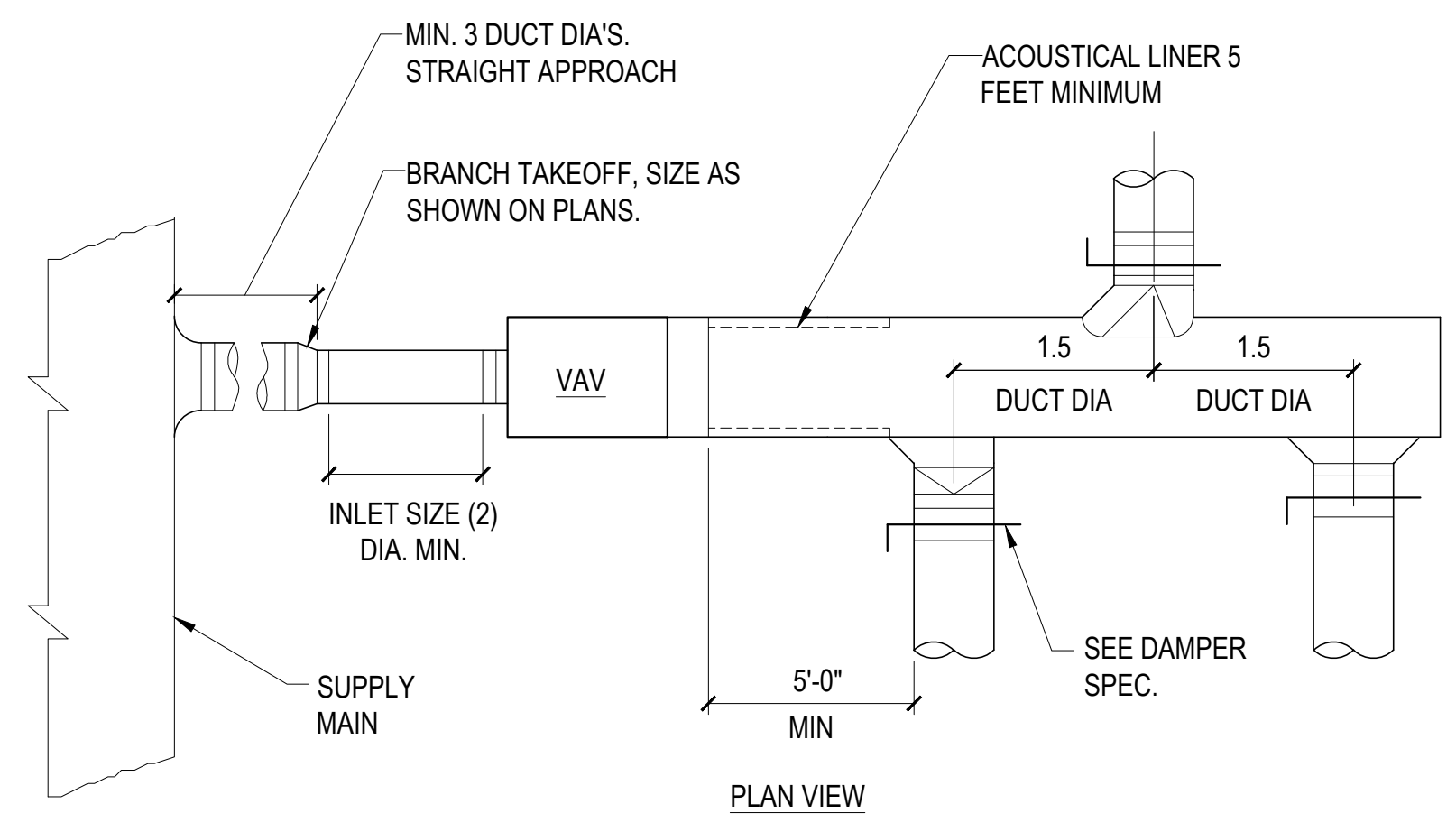
17 DUCT MOUNTED PRE-COOLING COIL DC-1 / DC-2
M300 NOT TO SCALE



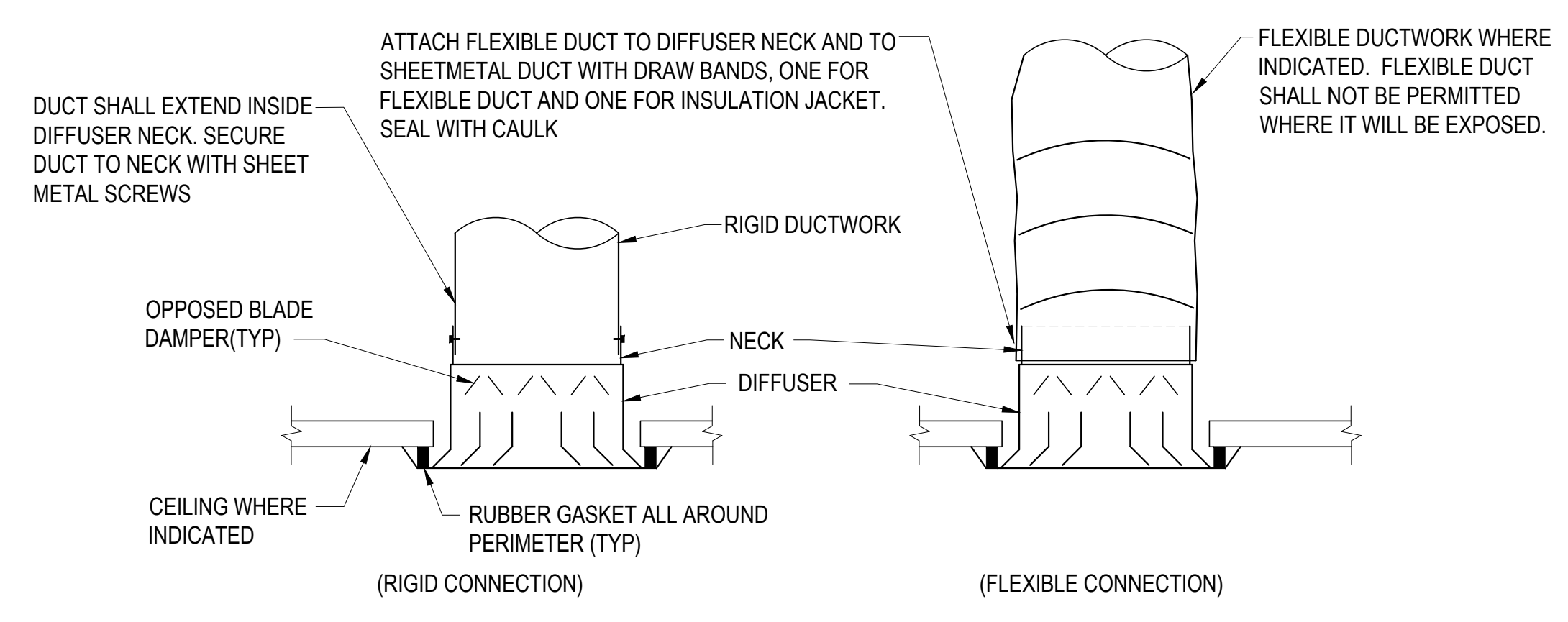
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5 03-05-17 BKGN UPDATE		
1 10-27-16 IFC		
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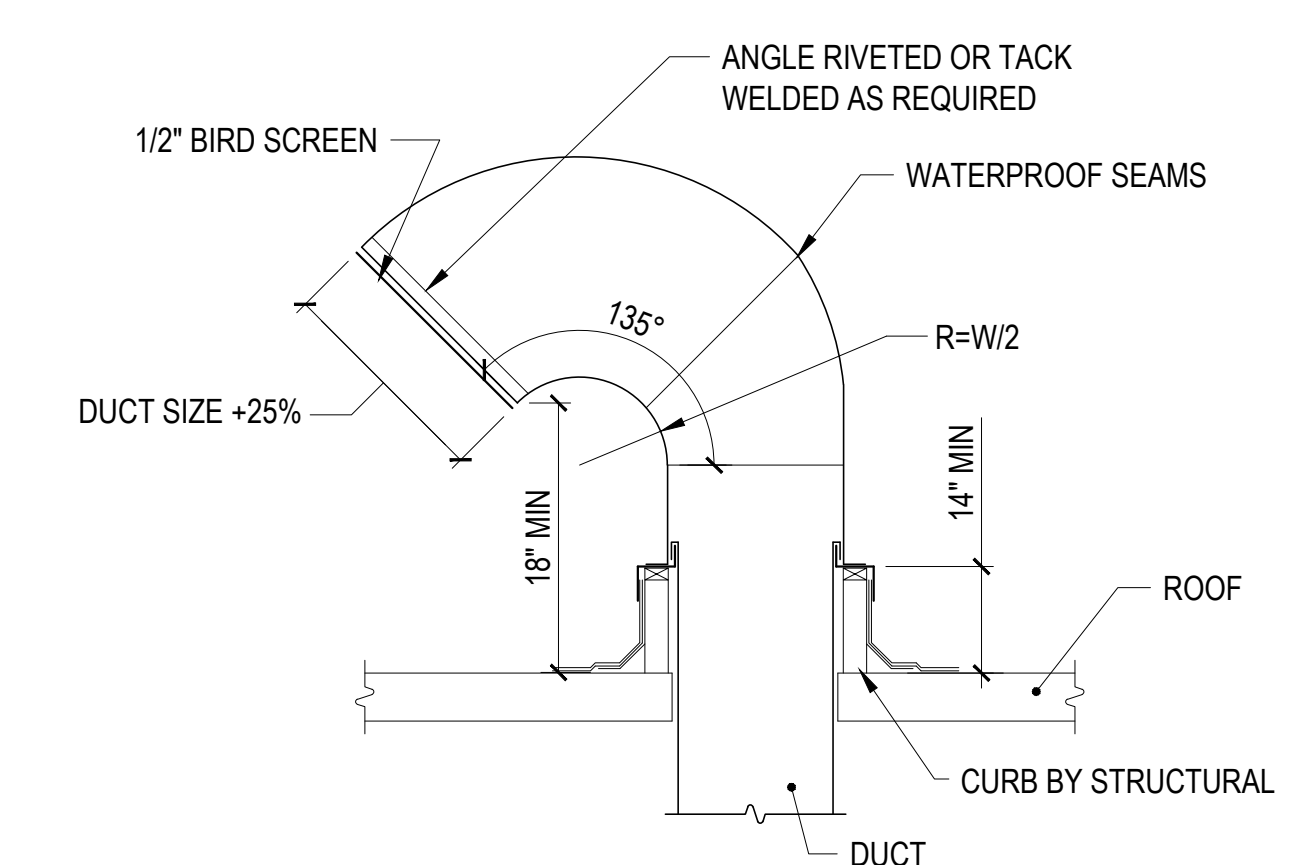
1 OSA LOUVER DETAIL
M301 NOT TO SCALE



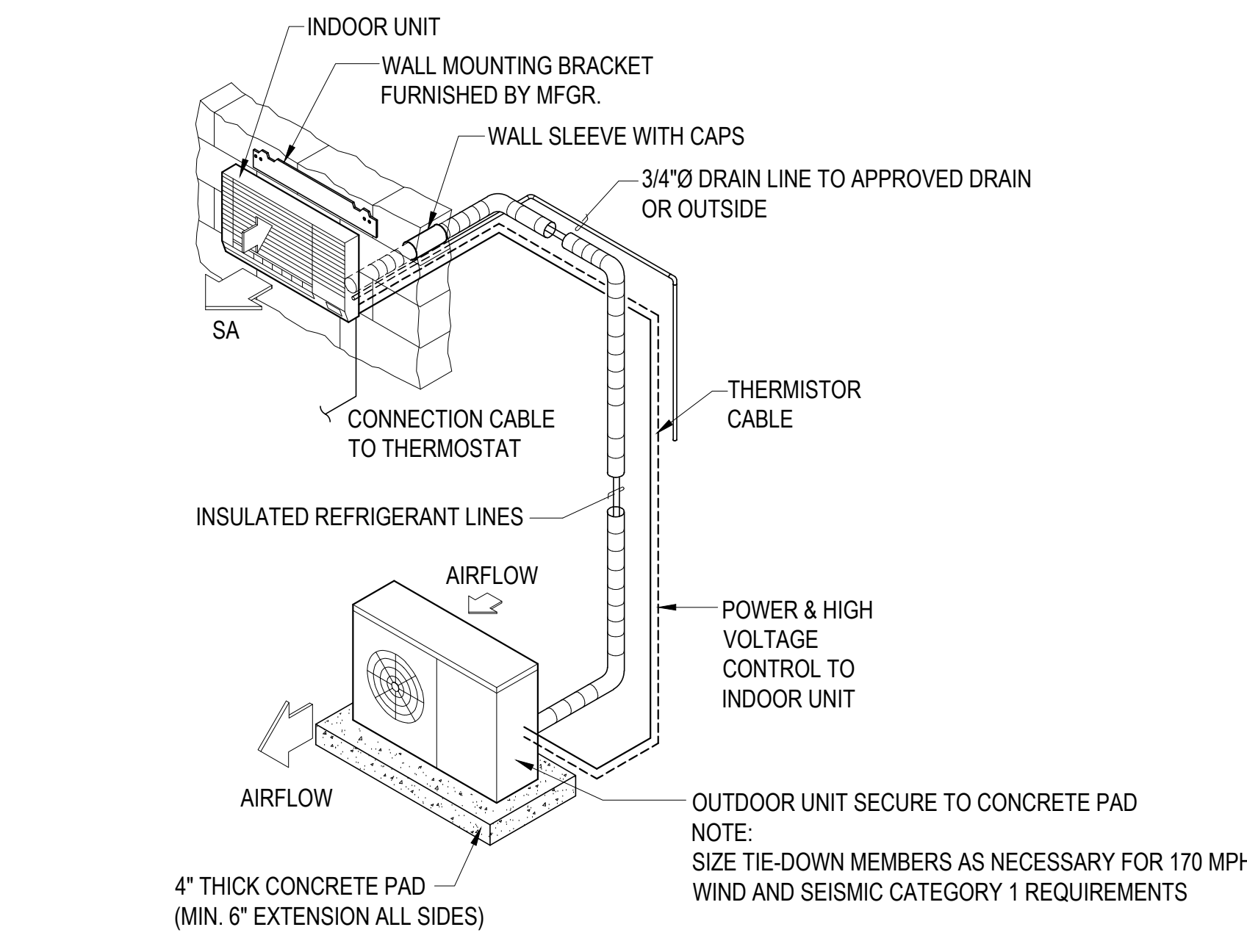
2 VAV INSTALLATION DETAILS
M301 NOT TO SCALE



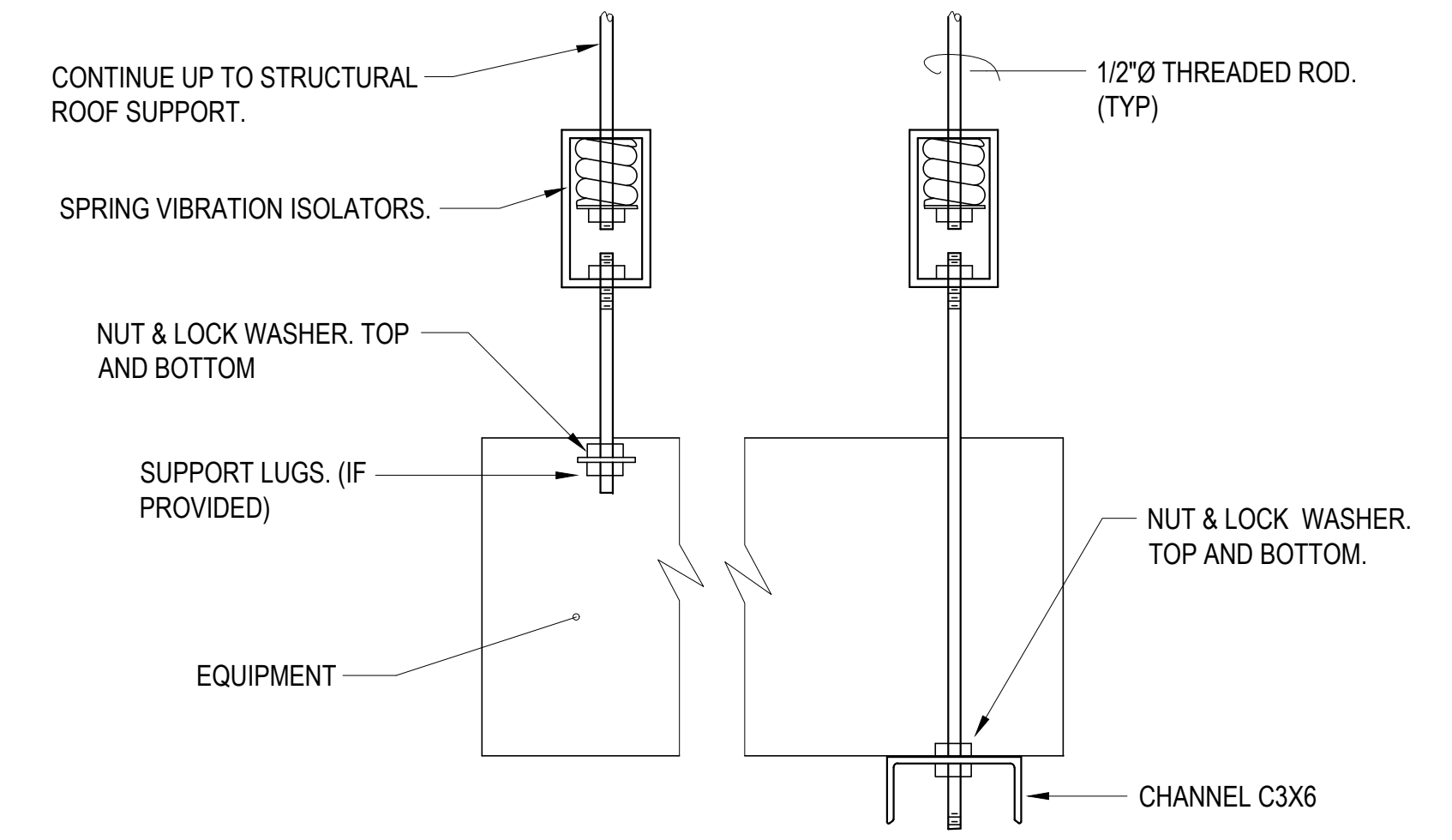
3 DUCT TO DIFFUSER/REGISTER CONNECTION
M301 NOT TO SCALE (TYP. FOR ALL DIFFUSER/REGISTERS)



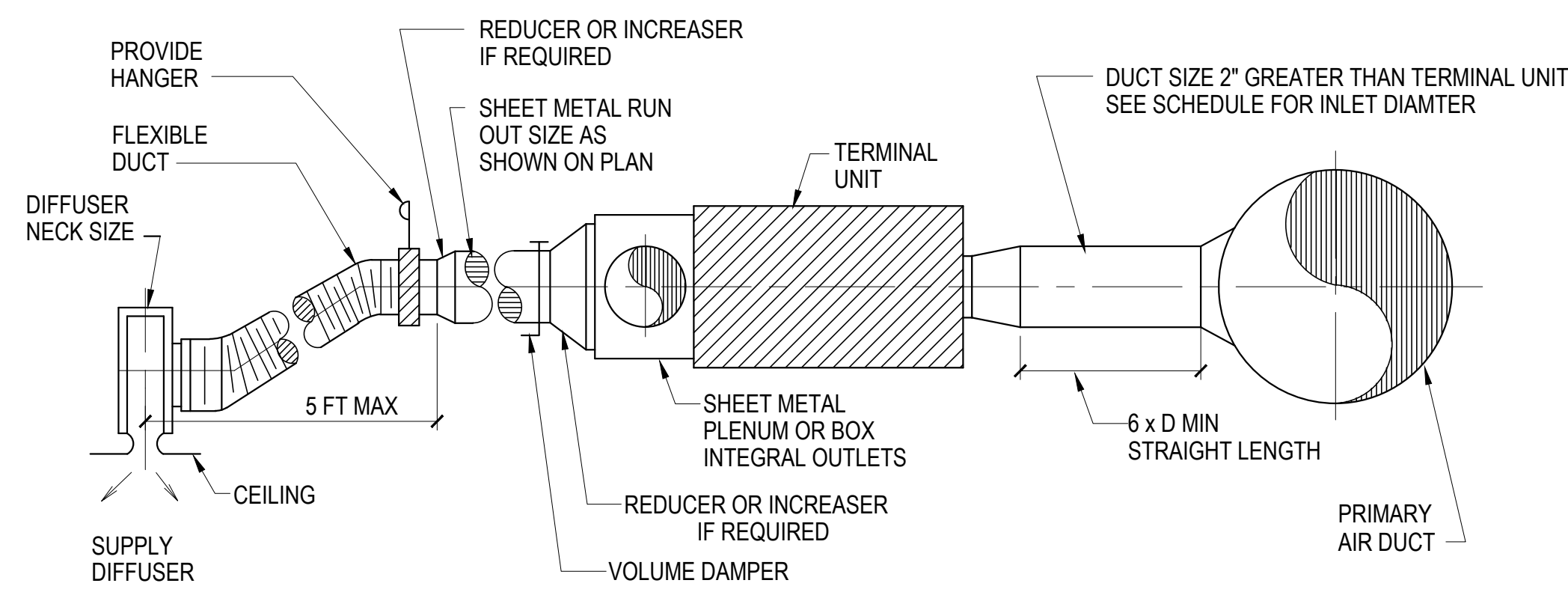
4 GOOSENECK INTAKE EXHAUST DETAIL
M302 NOT TO SCALE



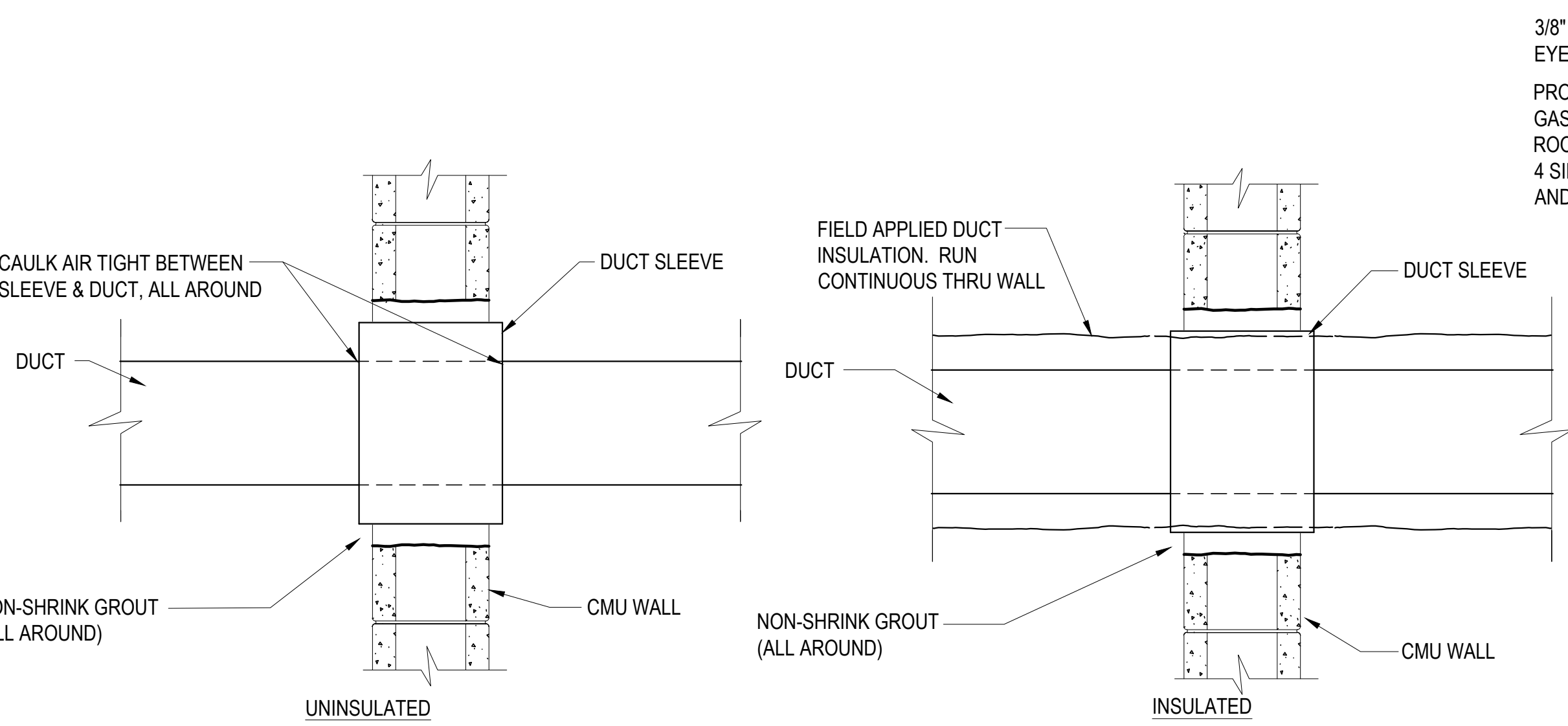
4 DUCTLESS SPLIT SYSTEM DETAIL
M301 NOT TO SCALE



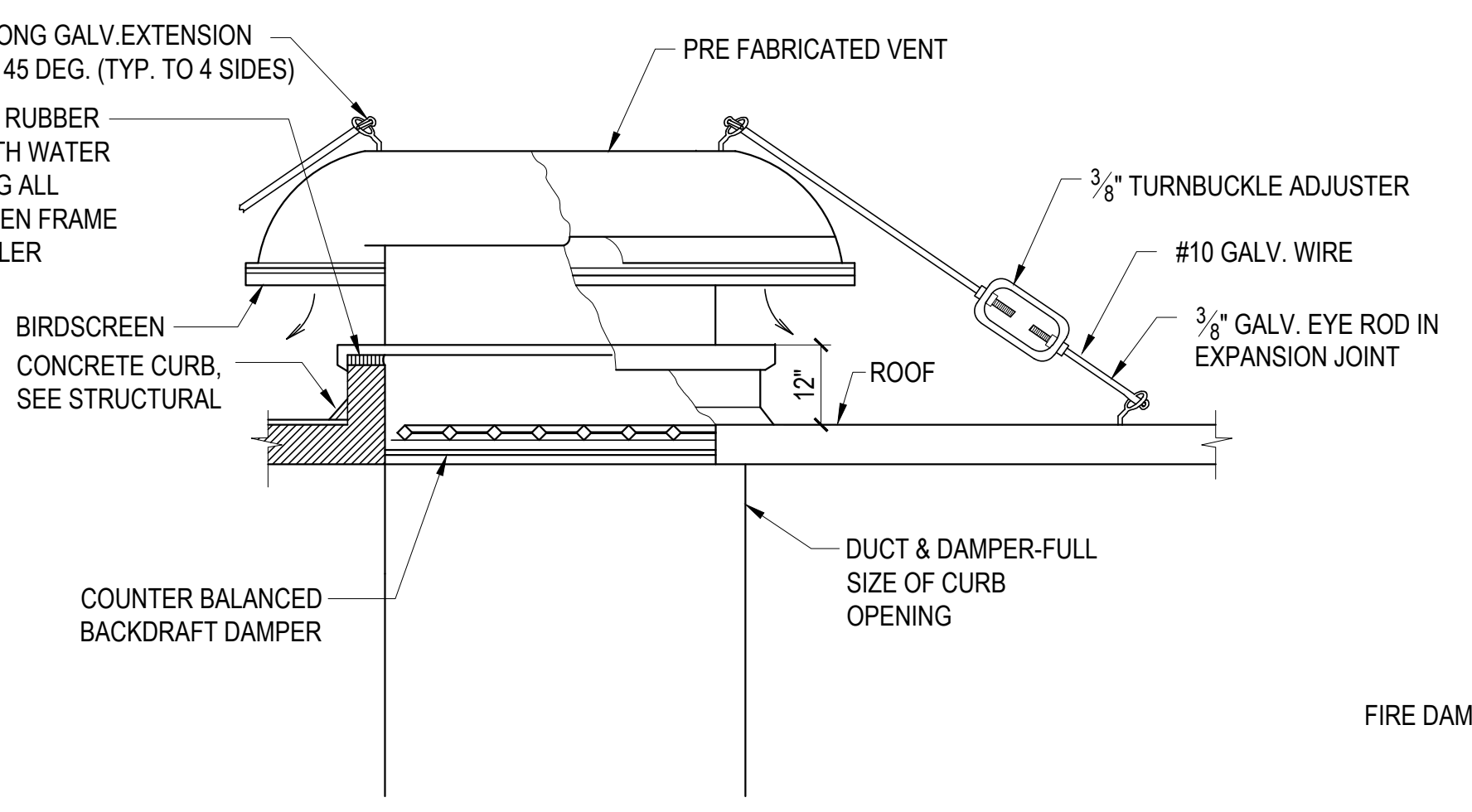
5 SUSPENDED EQUIPMENT SUPPORT DETAIL
M301 NOT TO SCALE



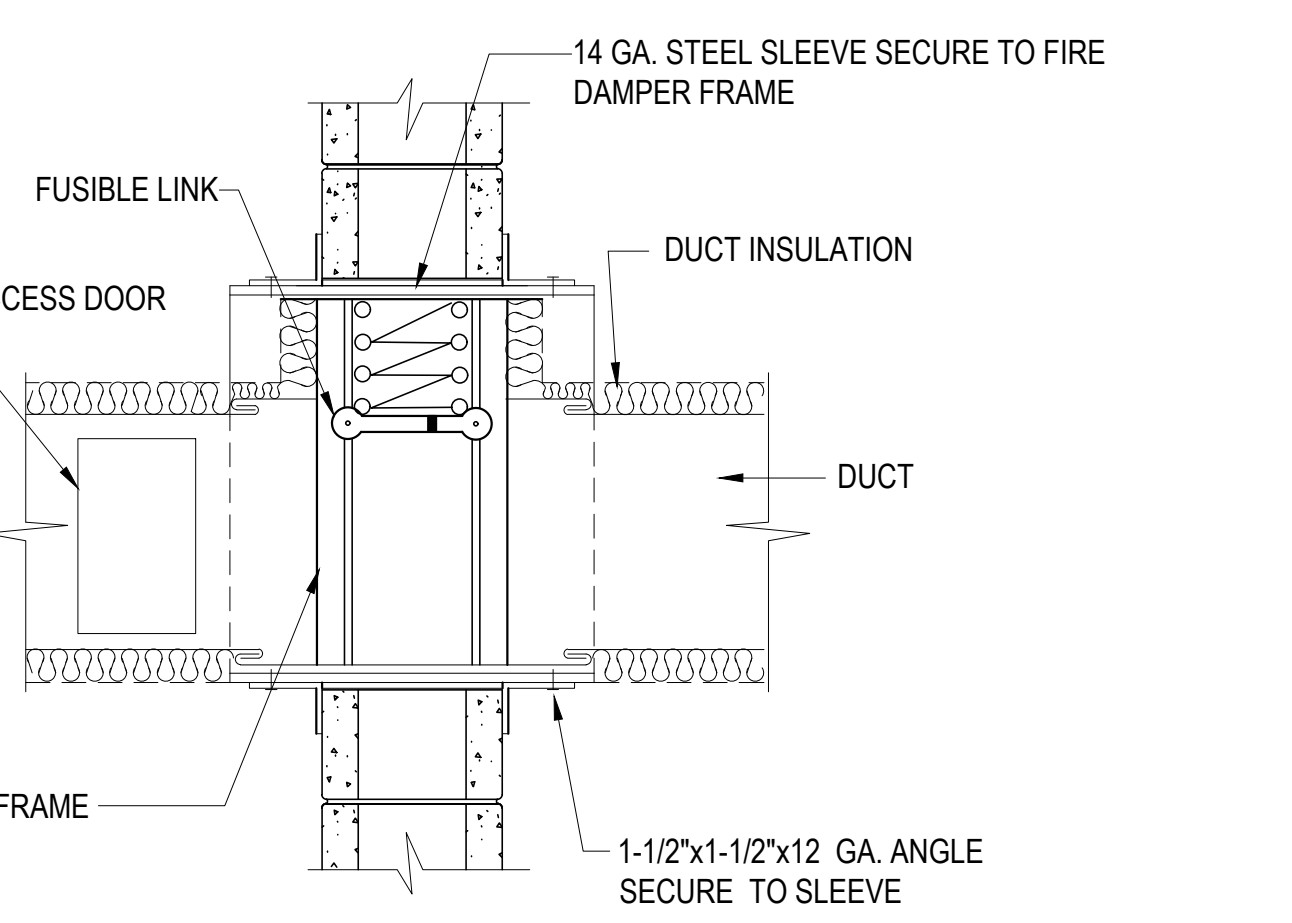
6 TERMINAL UNIT DUCT TAKE-OFF DETAIL
M301 NOT TO SCALE



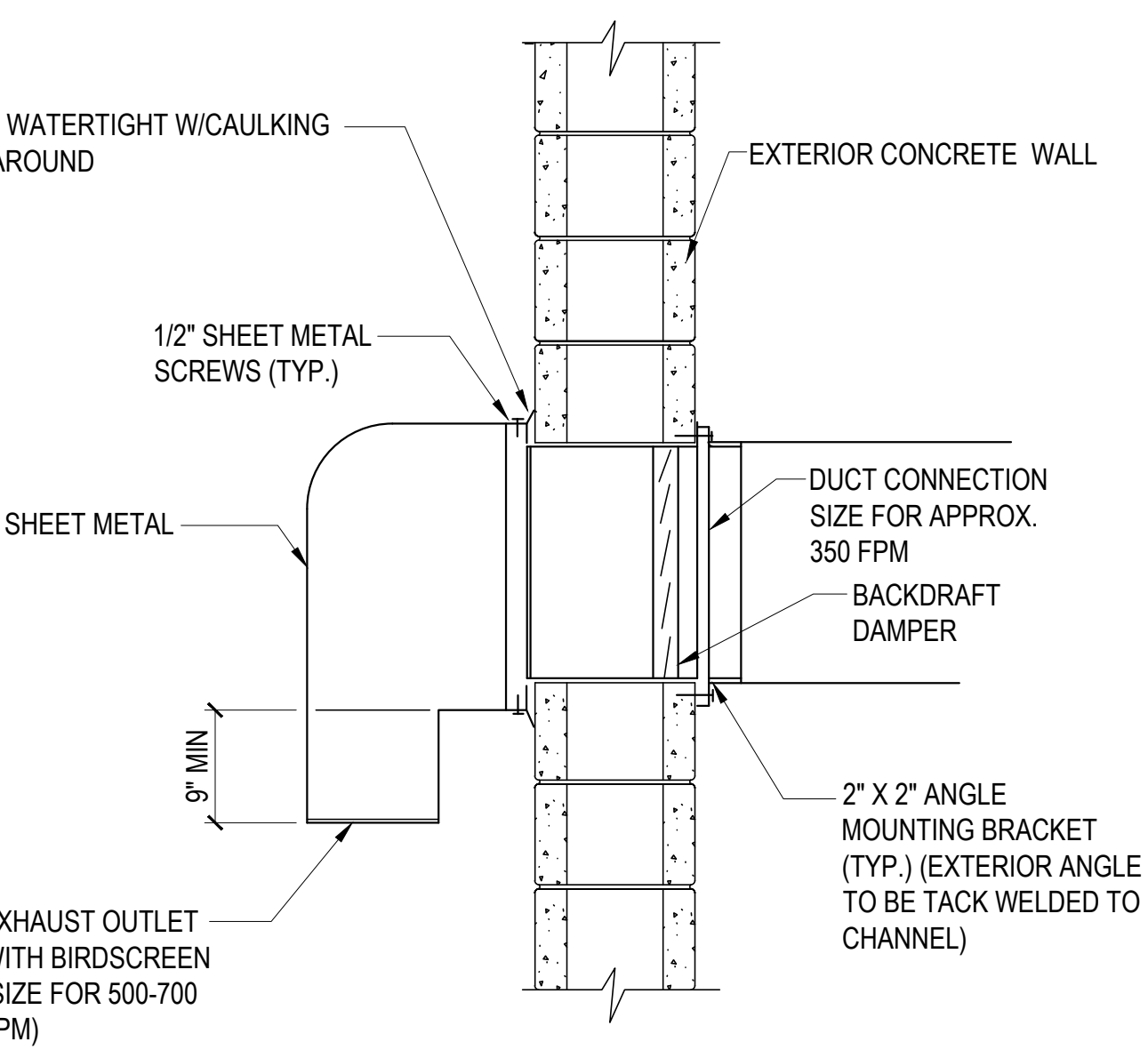
7 DUCT PENETRATION DETAIL
M301 NOT TO SCALE



8 INTAKE / RELIEF VENT DETAIL
M301 NOT TO SCALE

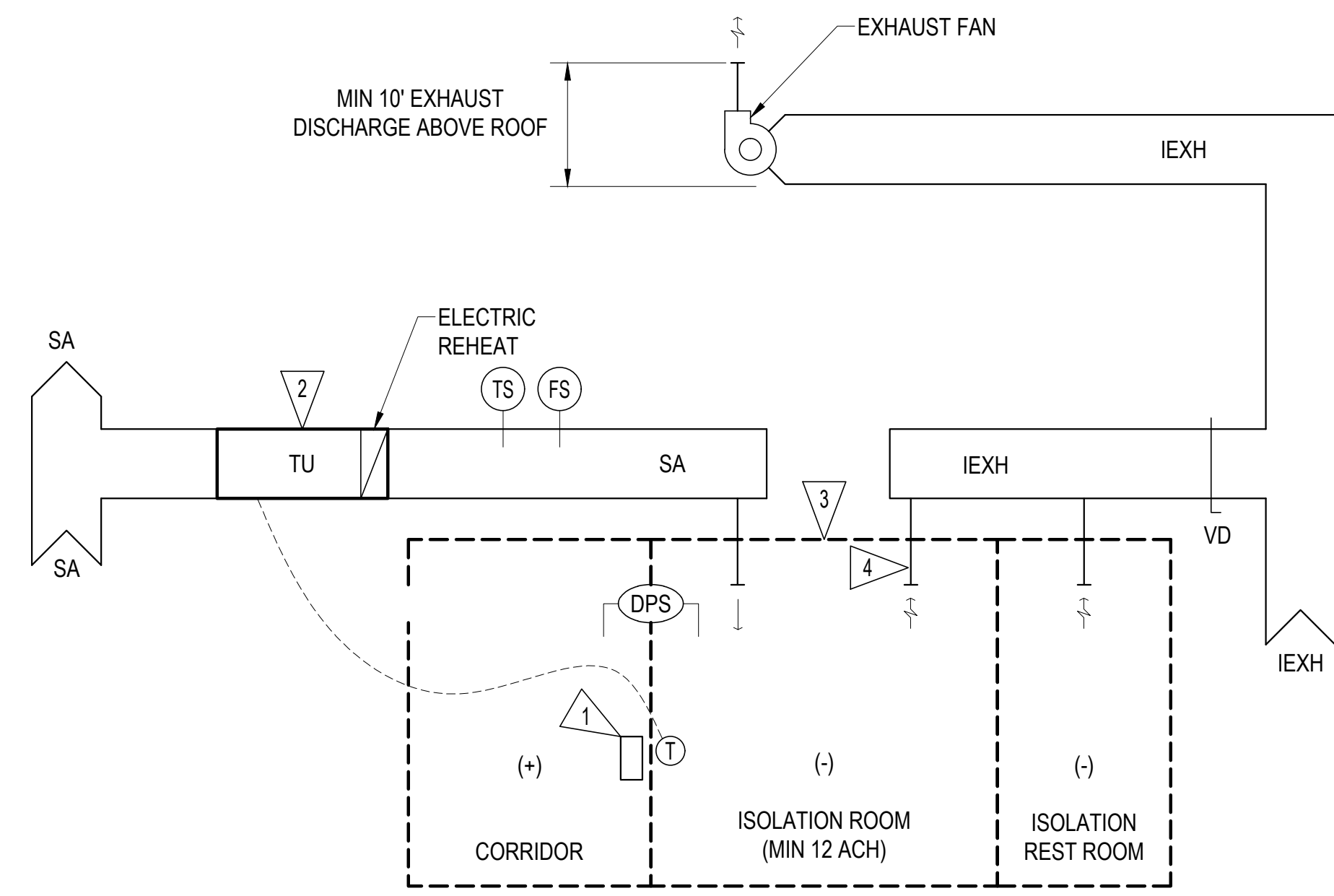


9 HORIZONTAL AIR FLOW FIRE DAMPER DETAIL
M301 NOT TO SCALE



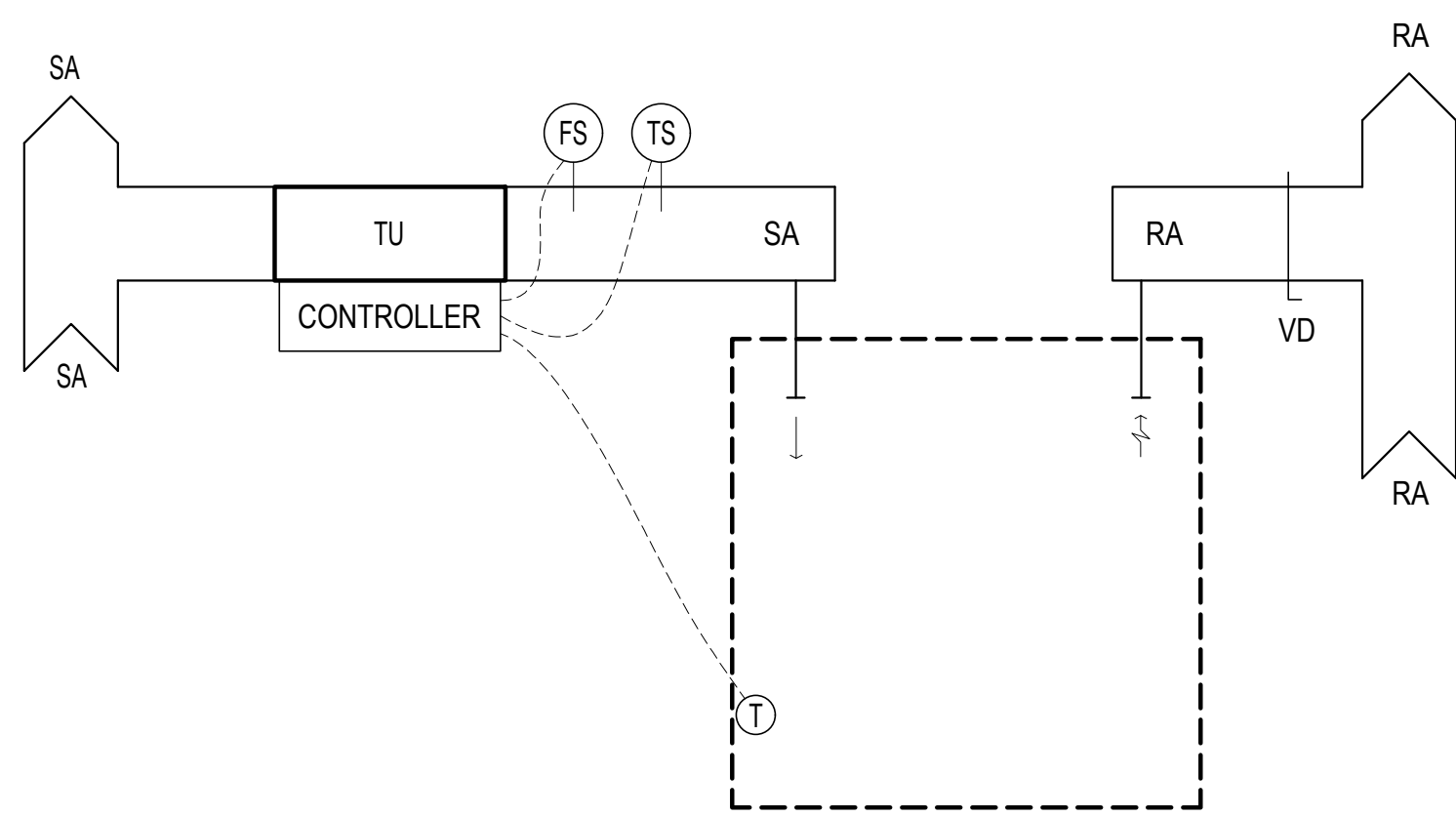
EXHAUST HOOD DETAIL

PROJECT TITLE:	OWNER:	SHEET TITLE:
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1	10-27-16	IFC
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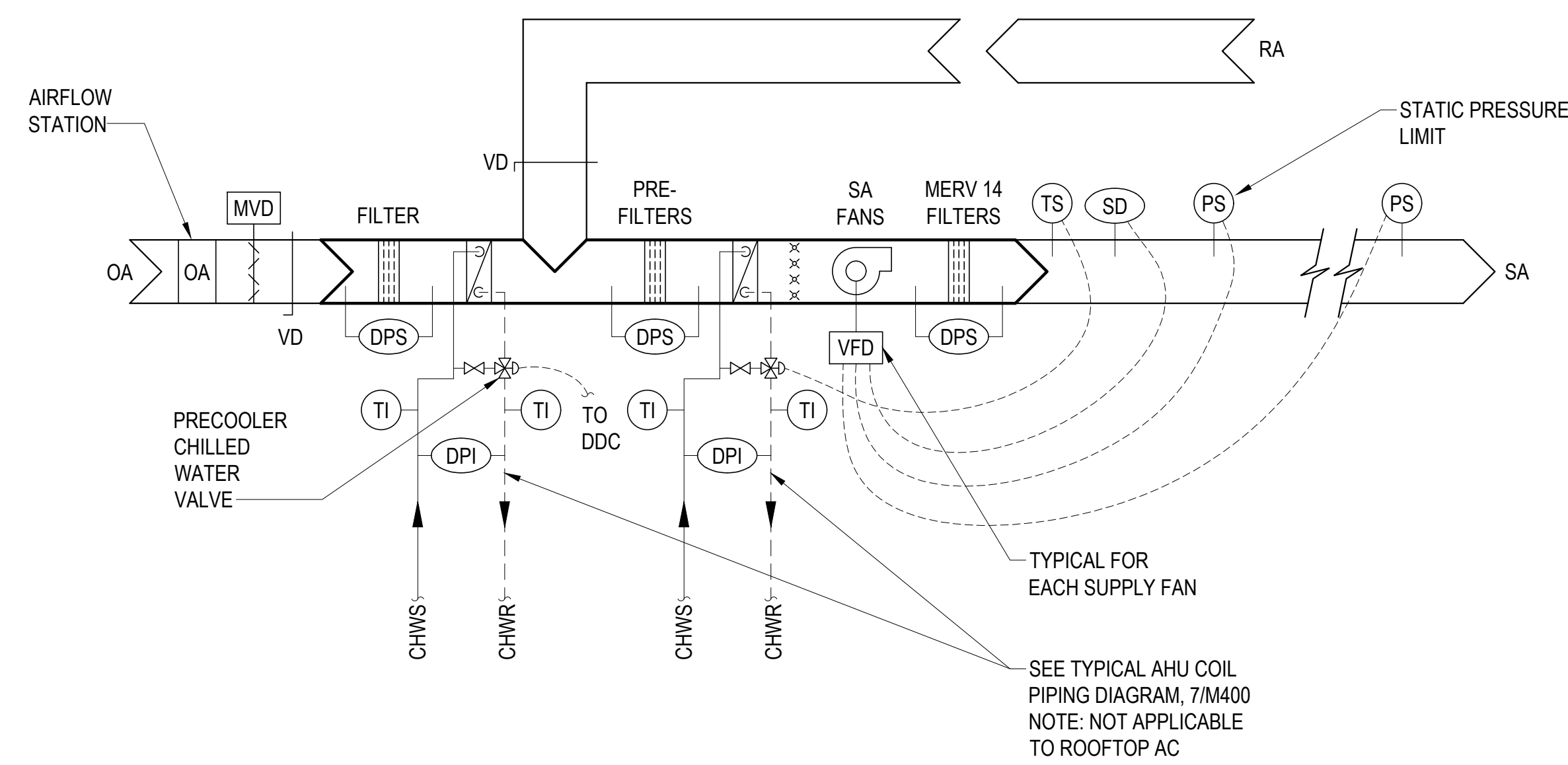
- DIAGRAM NOTES:**
- ISOLATION ROOM PRESSURE MONITOR - MINIMUM 0.01" W.C. DIFFERENTIAL.
 - TU WITH HW REHEAT - SET TO MAINTAIN MINIMUM ACH.
 - ISOLATION ROOM ENVELOPE, DOORS, AND PENETRATIONS SHOULD BE SEALED TO LIMIT AIR LEAKAGE (SEE ARCH REQUIREMENTS).
 - EXHAUST GRILLE PLACED OVER PATIENT BED.

1 TYPICAL ISOLATION ROOM DIAGRAM
M400 NOT TO SCALE

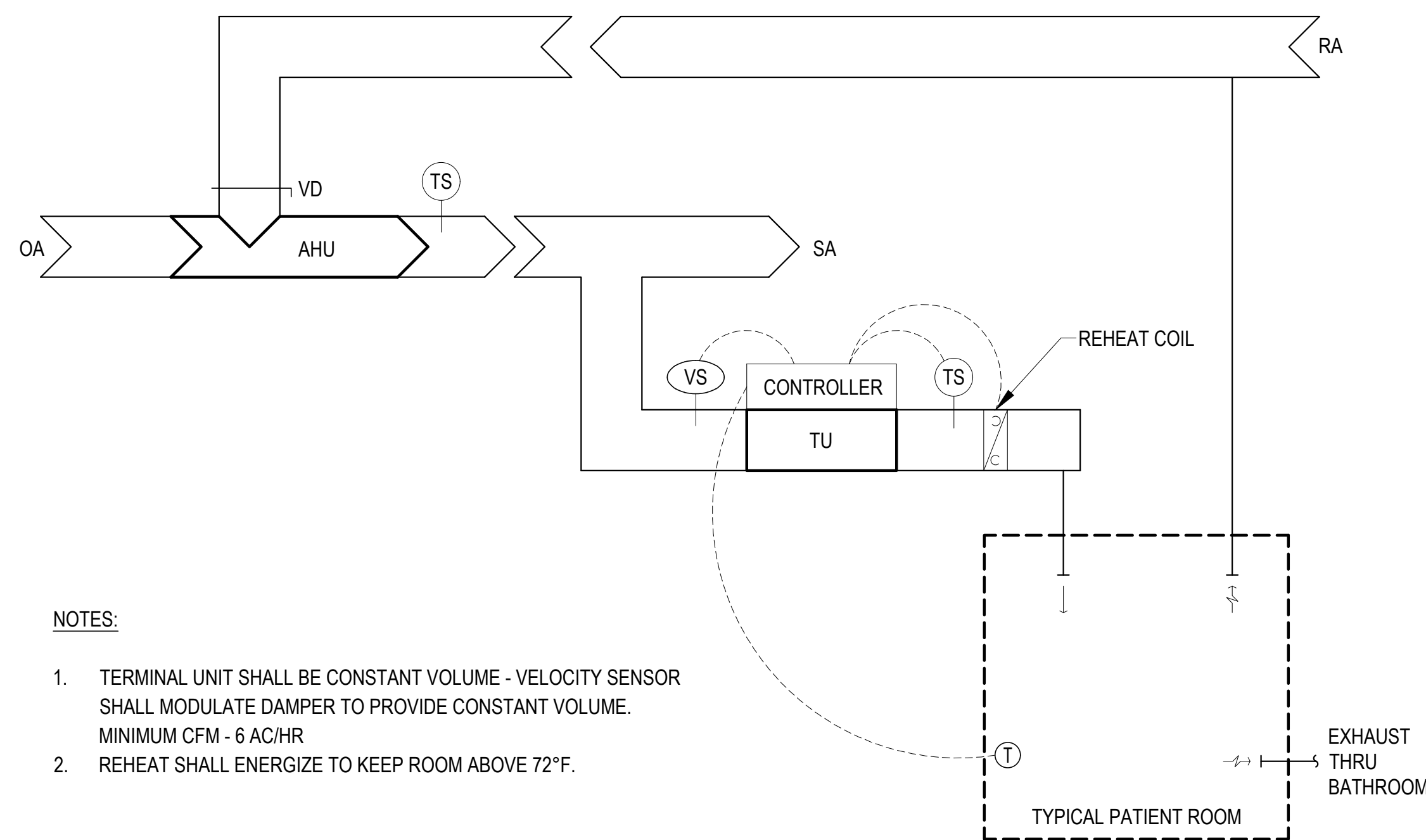


- DIAGRAM NOTES:**
- TU SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM SETTINGS TO SATISFY ROOM THERMOSTAT.

4 TYPICAL ZONE WITH TU
M400 NOT TO SCALE

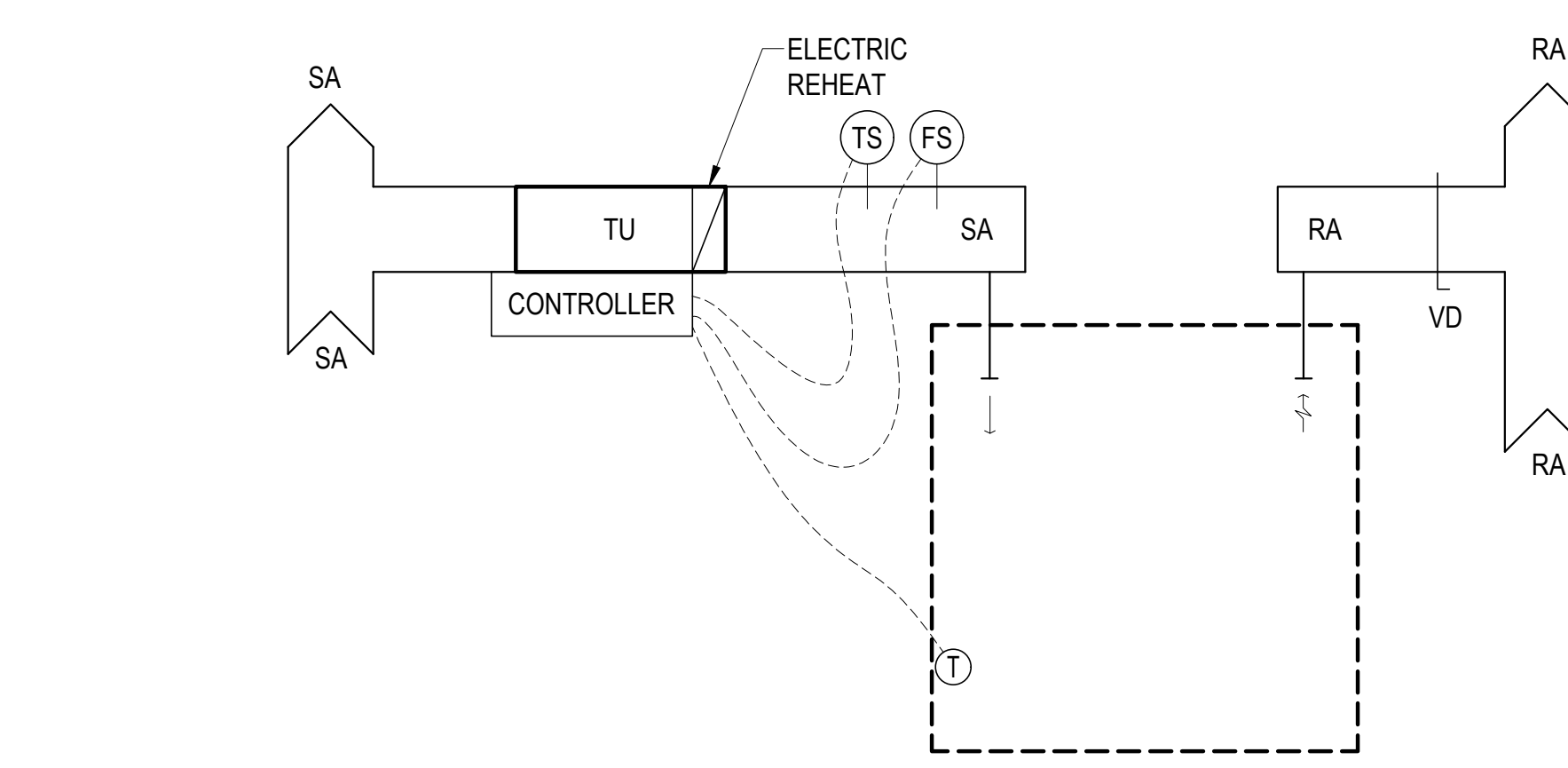


2 TYPICAL HOSPITAL AIR HANDLING UNIT AND ROOFTOP A/C DIAGRAM
M400 NOT TO SCALE



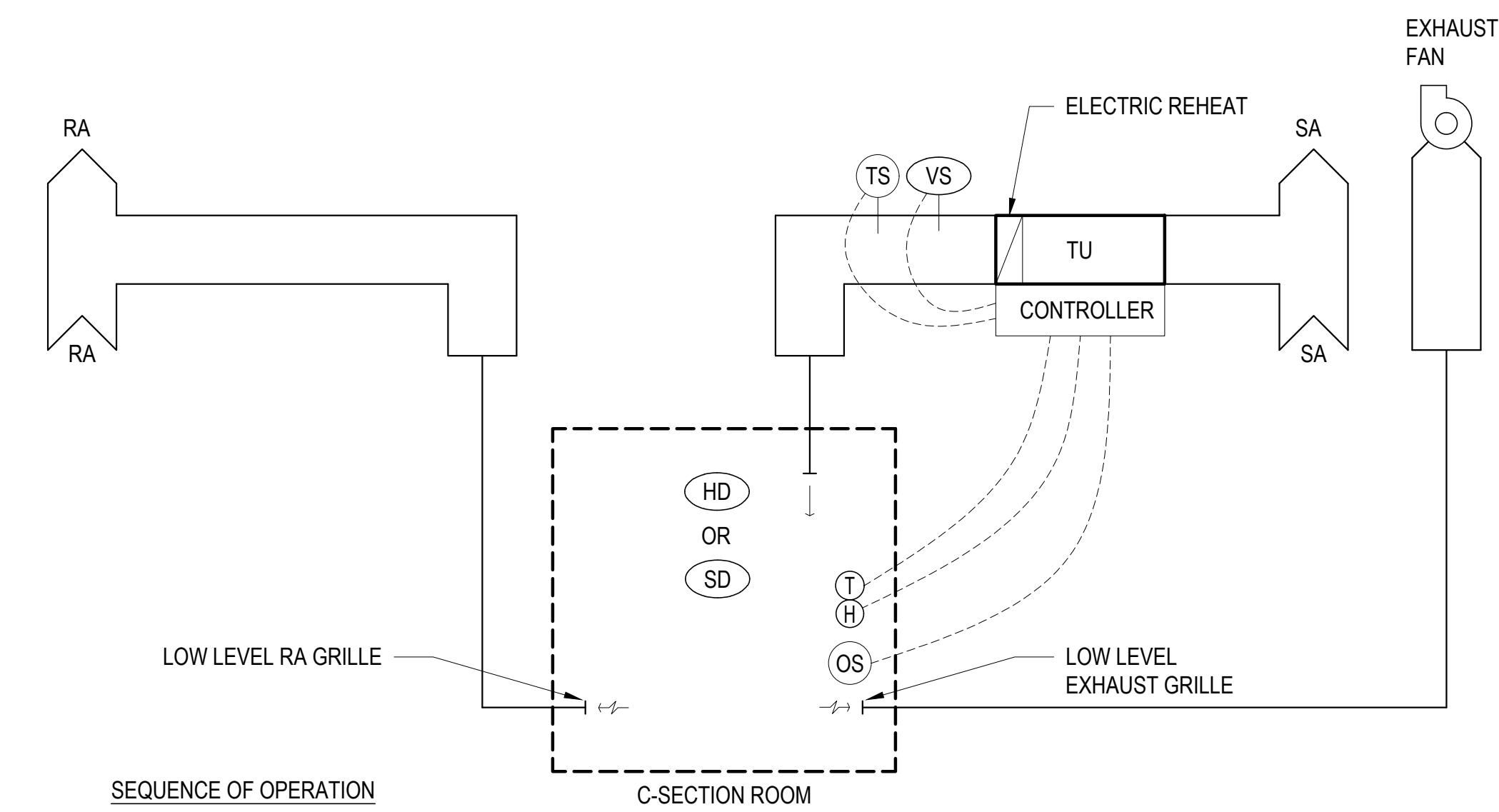
- NOTES:**
- TERMINAL UNIT SHALL BE CONSTANT VOLUME - VELOCITY SENSOR SHALL MODULATE DAMPER TO PROVIDE CONSTANT VOLUME. MINIMUM CFM - 6 AC/HR
 - REHEAT SHALL ENERGIZE TO KEEP ROOM ABOVE 72°F.

5 TYPICAL PATIENT ROOM A/C CONTROL DIAGRAM
M400 NOT TO SCALE



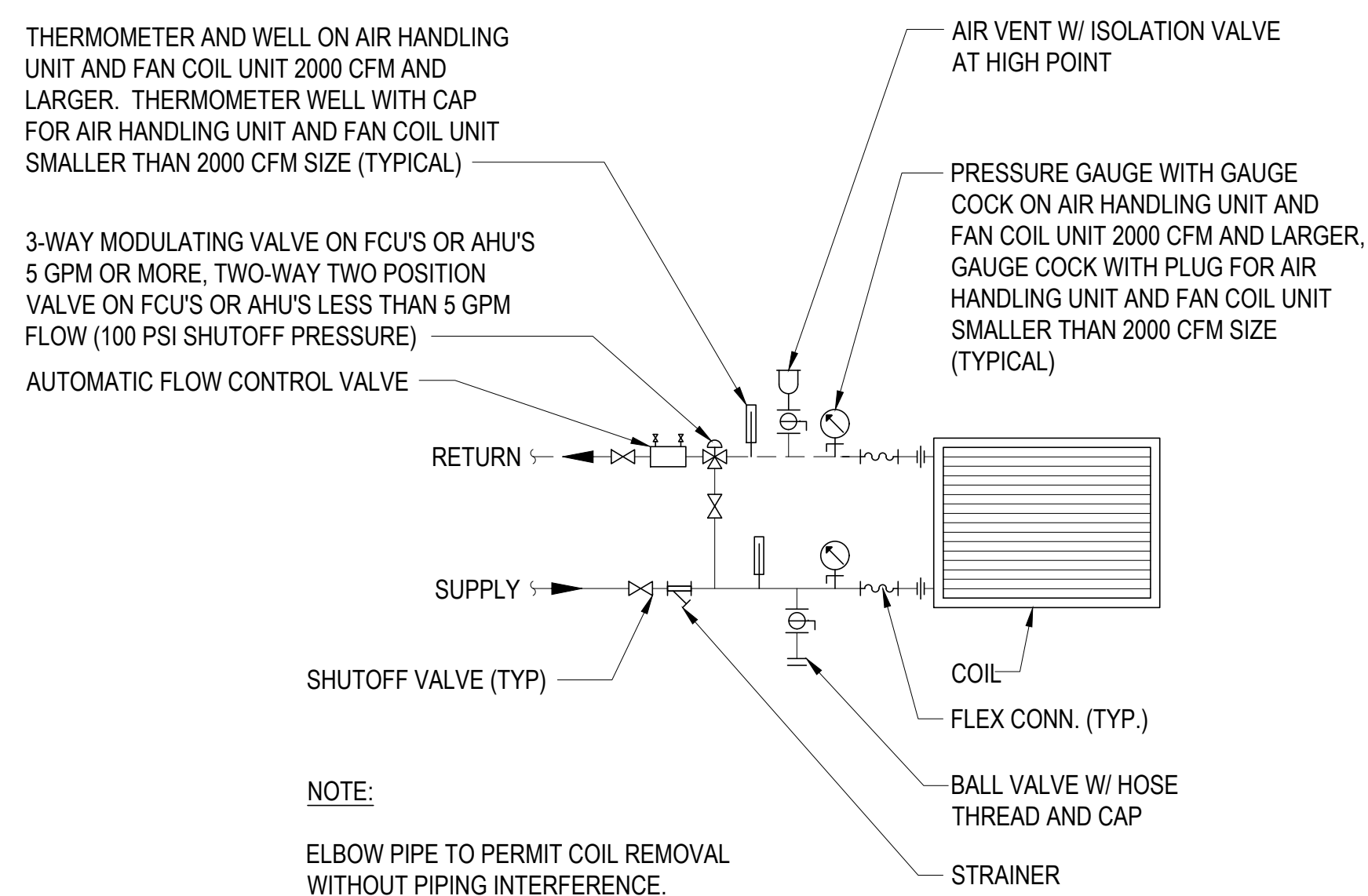
- DIAGRAM NOTES:**
- TU SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM SETTINGS TO SATISFY ROOM THERMOSTAT.
 - WHEN TU IS AT MINIMUM DAMPER SETTING AND TEMPERATURE DROPS BELOW SETTING - ROOM THERMOSTAT SHALL CONTROL ELECTRIC REHEAT COIL TO RAISE SUPPLY AIR TEMPERATURE.

3 TYPICAL ZONE WITH TU WITH REHEAT
M400 NOT TO SCALE



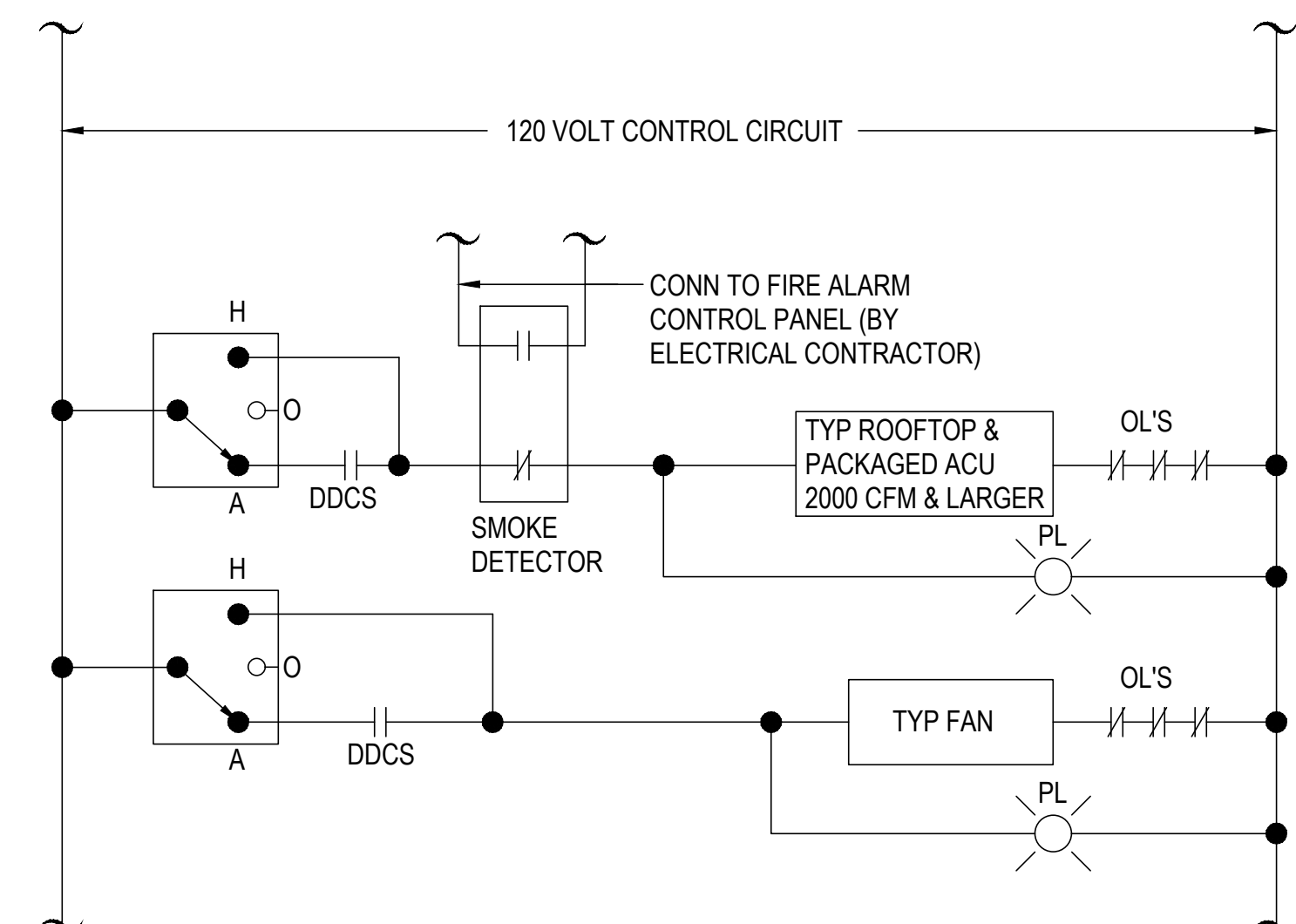
- SEQUENCE OF OPERATION**
- C-SECTION ROOM - NORMAL OPERATION**
- SUPPLY AIR TU WILL MAINTAIN A MINIMUM OF 20 ACH DURING NORMAL OPERATIONS OR MORE TO SATISFY LOAD.
 - ROOM THERMOSTAT WILL MAINTAIN TU BOX CONTROL. ROOM TEMPERATURE SHOULD BE AT 68°F.
 - ROOM HUMIDISTAT WILL MEASURE HUMIDITY.
 - ELECTRIC REHEAT WILL ENERGIZE IF TEMPERATURE FALLS BELOW 68°F.

6 OPERATION ROOM A/C CONTROL DIAGRAM
M400 NOT TO SCALE



- NOTE:**
- ELBOW PIPE TO PERMIT COIL REMOVAL WITHOUT PIPING INTERFERENCE.

7 TYPICAL FAN COIL AND AIR HANDLING UNIT COIL PIPING DIAGRAM
M400 NOT TO SCALE



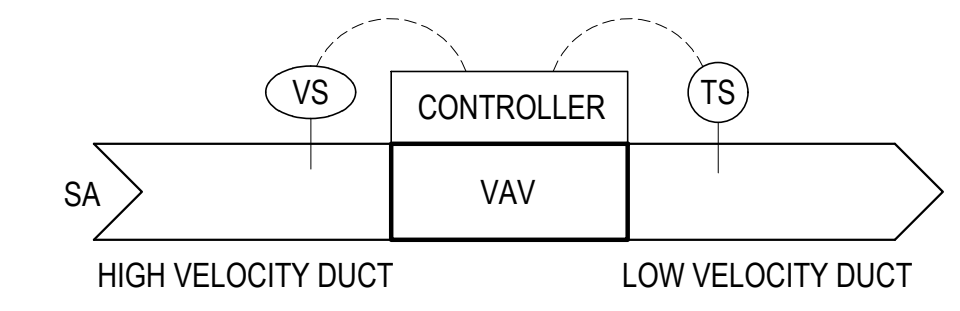
- NOTES:**
- ONE-LINE DIAGRAM SHOWN IS SCHEMATIC IN NATURE. CONTRACTOR SHALL INSTALL ADDITIONAL RELAYS/CONTACTS, ETC. AS REQUIRED TO PROVIDE INTERLOCK/SEQUENCE FUNCTIONS INDICATED.
 - INSTALL ALL H-O-A, RELAYS, AND PILOT LIGHTS IN GALVANIZED METAL BOX/PANELS. PILOT LIGHTS SHALL BE GREEN WITH PUSH-TO-TEST FEATURE.
 - LABEL ALL CONTROL COMPONENTS, SWITCHES, RELAYS, ETC. BY NAME AND JUNCTURE.

8 ONE-LINE INTERLOCK DIAGRAM
M400 NOT TO SCALE

SEQUENCE OF OPERATION

- CONTROLLER INFORMATION TO DDCS**
- SUPPLY AIR VELOCITY
 - SUPPLY AIR TEMPERATURE
 - SPACE TEMPERATURE
 - MAXIMUM VELOCITY SET POINT
 - MINIMUM VELOCITY SET POINT
 - COOLING THERMOSTAT SET POINT

- CONTROLLER COMMANDS ACCEPTED FROM DDCS**
- COOLING THERMOSTAT SET POINT
 - MAXIMUM VELOCITY SET POINT
 - MINIMUM VELOCITY SET POINT



- NOTE:**
- FOR TERMINAL UNITS DESIGNATED TO BE CONSTANT VOLUME, VELOCITY SENSOR SHALL MODULATE DAMPER TO PROVIDE CONSTANT VOLUME.

9 TYP. VAV AIR TERMINAL UNIT CONTROL DIAGRAM
M400 NOT TO SCALE

CONTROL SYMBOLS LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(DPS)	DIFFERENTIAL PRESSURE SENSOR		VOLUME DAMPER (VD)
(DPS)	DIFFERENTIAL PRESSURE INDICATOR (GAUGE)	XXX	DAMPER ACTUATOR & DAMPER
(PS)	PRESSURE SENSOR	~	
(TS)	TEMPERATURE SENSOR	TC	COIL
(TI)	TEMPERATURE INDICATOR	TC	FILTER BANK
(VS)	VELOCITY SENSOR	XXX	SOUND ATTENUATOR
(H)	HUMIDISTAT	TC	ULTRAVIOLET LIGHTS
(T)	ROOM TEMPERATURE SENSOR (T-STAT)	TC	CENTRIFUGAL FAN
(HD)	HEAT DETECTOR	TC	PROPELLER FAN
(SD)	SMOKE DETECTOR	TC	VARIABLE FREQUENCY DRIVE
(DSD)	DUCT SMOKE DETECTOR	VFD	
(OS)	OCCUPANCY SENSOR		
(3-WAY)	3-WAY MOTORIZED VALVE		

TERMINAL UNIT SCHEDULE

AHU	UNIT NUMBER	TYPE	CV/NAV	AIRFLOW		ELECTRICAL		REHEAT (kW)	INLET SIZE (INCHES)	REMARKS
				MAX	MIN	VOLTS	PHASE			
AHU-206	206	SINGLE DUCT, PRESS. IND.	VAV	160	75	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	265B	SINGLE DUCT, PRESS. IND.	VAV	170	105	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	265	SINGLE DUCT, PRESS. IND.	CV		270	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	265A	SINGLE DUCT, PRESS. IND.	VAV	390	160	277	1	NONE	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	269	SINGLE DUCT, PRESS. IND.	CV		270	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	270	SINGLE DUCT, PRESS. IND.	VAV	80	25	277	1	NONE	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	265D	SINGLE DUCT, PRESS. IND.	VAV	270	210	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	262	SINGLE DUCT, PRESS. IND.	CV		395	277	1	2.5	7	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	265C	SINGLE DUCT, PRESS. IND.	VAV	280	210	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	261	SINGLE DUCT, PRESS. IND.	CV		280	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	260	SINGLE DUCT, PRESS. IND.	CV		290	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	257	SINGLE DUCT, PRESS. IND.	CV		125	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	258	SINGLE DUCT, PRESS. IND.	CV		1175	277	1	6.5	10	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	255	SINGLE DUCT, PRESS. IND.	CV		335	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	254	SINGLE DUCT, PRESS. IND.	CV		355	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	253	SINGLE DUCT, PRESS. IND.	CV		485	277	1	2.5	7	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	247	SINGLE DUCT, PRESS. IND.	VAV	490	180	277	1	NONE	7	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	252	SINGLE DUCT, PRESS. IND.	VAV	215	125	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	243	SINGLE DUCT, PRESS. IND.	VAV	220	160	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
251	SINGLE DUCT, PRESS. IND.	VAV	205	115	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
235B	SINGLE DUCT, PRESS. IND.	VAV	230	140	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
250	SINGLE DUCT, PRESS. IND.	VAV	205	115	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
249	SINGLE DUCT, PRESS. IND.	VAV	285	185	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
234	SINGLE DUCT, PRESS. IND.	VAV	195	105	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
233	SINGLE DUCT, PRESS. IND.	VAV	195	105	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
232	SINGLE DUCT, PRESS. IND.	VAV	235	145	277	1	1.5	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
231	SINGLE DUCT, PRESS. IND.	VAV	195	105	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
238	SINGLE DUCT, PRESS. IND.	CV		60	277	1	NONE	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
230	SINGLE DUCT, PRESS. IND.	VAV	235	145	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
237	SINGLE DUCT, PRESS. IND.	CV		70	277	1	NONE	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
229	SINGLE DUCT, PRESS. IND.	VAV	200	110	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
235A	SINGLE DUCT, PRESS. IND.	VAV	250	160	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
228	SINGLE DUCT, PRESS. IND.	VAV	200	100	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
245	SINGLE DUCT, PRESS. IND.	VAV	220	130	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
272	SINGLE DUCT, PRESS. IND.	CV		360	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
273	SINGLE DUCT, PRESS. IND.	CV		285	277	1	1.5	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
285	SINGLE DUCT, PRESS. IND.	VAV	180	90	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
274	SINGLE DUCT, PRESS. IND.	CV		120	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
280	SINGLE DUCT, PRESS. IND.	VAV	175	60	277	1	NONE	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
275	SINGLE DUCT, PRESS. IND.	CV		300	277	1	NONE	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
276	SINGLE DUCT, PRESS. IND.	CV		80	277	1	1.0	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
221	SINGLE DUCT, PRESS. IND.	VAV	295	205	277	1	1.5	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
240	SINGLE DUCT, PRESS. IND.	CV		60	277	1	1.0	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
241	SINGLE DUCT, PRESS. IND.	VAV	80	25	277	1	1.5	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
277	SINGLE DUCT, PRESS. IND.	CV		280	277	1	1.5	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW	
PCU-23	227	SINGLE DUCT, PRESS. IND.	VAV	230	175	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	222	SINGLE DUCT, PRESS. IND.	VAV	205	60	277	1	NONE	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	226	SINGLE DUCT, PRESS. IND.	VAV	230	185	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	225	SINGLE DUCT, PRESS. IND.	VAV	230	180	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
PCU-21/ PCU-22	224	SINGLE DUCT, PRESS. IND.	VAV	305	60	277	1	1.0	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	212B	SINGLE DUCT, PRESS. IND.	CV		1410	277	1	5.0	12	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	213	SINGLE DUCT, PRESS. IND.	VAV	265	80	277	1	NONE	6	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	211	SINGLE DUCT, PRESS. IND.	CV		140	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	216	SINGLE DUCT, PRESS. IND.	CV		200	277	1	1.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	218	SINGLE DUCT, PRESS. IND.	CV		100	277	1	1	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	219	SINGLE DUCT, PRESS. IND.	CV		80	277	1	1	4	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	212A	SINGLE DUCT, PRESS. IND.	CV		390	277	1	2.0	7	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW
	220	SINGLE DUCT, PRESS. IND.	CV		185	277	1	2.0	5	PROVIDE W/ ACCESSORIES 1, 2, 3, 4 NOTED BELOW

- ACCESSORIES:
- DIGITAL CONTROLS
 - NON-POROUS SEALED LINER
 - DISCONNECT SWITCH
 - THERMOSTAT

AIR TERMINAL SCHEDULE

TAG	PURPOSE	NECK SIZE (IN.)	FACE SIZE (IN.)	MAXIMUM CFM	COLOR	BORDER TYPE	REMARKS
A6	SUPPLY	6x6	24x24	200	WHITE	TYPE 3-LAY IN	T-BAR
A8	SUPPLY	8x8	24x24	300	WHITE	TYPE 3-LAY IN	T-BAR
A10	SUPPLY	10x10	24x24	400	WHITE	TYPE 3-LAY IN	T-BAR
A12	SUPPLY	12x12	24x24	600	WHITE	TYPE 3-LAY IN	T-BAR
A24	SUPPLY	48x24	48x24	300	WHITE	BORDER 1	VERTICAL LAMINAR FLOW
B6	SUPPLY	6x6		100	WHITE	TYPE 1-SURFACE	
B12	SUPPLY	12x12		650	WHITE	TYPE 1-SURFACE	
L1	SUPPLY	10	48x5	300	WHITE	BORDER 11	SINGLE SLOT
R1	RETURN	10x22	12x24	2000	WHITE	TYPE 3-LAY IN	T-BAR
R2	RETURN	12x12	15x15	500	WHITE	TYPE 1-SURFACE	
R3	RETURN	16x24	16x24	1400	WHITE	BORDER 1	
E1	EXHAUST	8x8		200	WHITE	TYPE 1-SURFACE	
E2	EXHAUST	10x22	12x24	2000	WHITE	TYPE 3-LAY IN	T-BAR

FAN SCHEDULE

MARK	CFM	ESP	MOTOR DATA			DRIVE TYPE	CONFIGURATION	DAMPER		LOCATION	NOTES
			HP (W)	RPM	VOLT/PH			TYPE	SIZE		
EF-1	450	0.5	1/8	1376	120/1	BELT	DOWNBLAST	1	18x18	NICU WARD TOILET	
EF-2	180	0.5	1/8	1324	120/1	BELT	DOWNBLAST	1	18x18	POST PARTUM 15	
EF-3	2065	0.75	1/2	807	120/1	BELT	HORIZONTAL	1	22x19	CORRIDOR 256	
EF-4	570	0.5	1/8	986	120/1	BELT	DOWNBLAST	1	15x15	LDR 3	
EF-5	475	0.5	1/8	1116	120/1	BELT	DOWNBLAST	1	12x12	LDRP 3	
EF-6	265	0.5	1/8	972	120/1	BELT	DOWNBLAST	1	12x12	POST PARTUM 15	
EF-7	275	0.5	1/8	987	120/1	BELT	DOWNBLAST	1	12x12	NICU NURSE STATION 2	
EF-8	1800	0.375	1/2	1000	120/1	BELT	HORIZONTAL	1	15x15	STAIRWELL	PROVIDE ON ROOFTOP CURB, COAT W/ HERESITE COATING
EF-9	750	0.375	1/2	1725	120/1	DIRECT	UTILITY SET, UPBLAST	1	14x14	ROOF	

DAMPER TYPE: 1. MOTORIZED DAMPER
2. BACKDRAFT DAMPER AND INSECT SCREEN

FILTER RACK SCHEDULE

SERVICE	AIRFLOW	FILTER TYPE	PRESS. DROP	SIZE (WxDxH)	OPR WT (LB)	NOTES
AHU-246	5820	6" THK MERV 14	0.8	48"x12"x39.5"	180	1.2
AHU-246	2835	6" THK MERV 14	0.8	36"x12"x27.3"	155	1.2
PCU-21	2980	6" THK MERV 14	0.4	48"x12"x39.5"	180	1.2
PCU-22	1430	6" THK MERV 14	0.4	36"x12"x27.3"	155	1.2

NOTES: 1) DIFFERENTIAL PRESSURE SENSOR
2) TYPE 304 STAINLESS STEEL CONSTRUCTION, FACTORY INSULATED

SPLIT SYSTEM PACKAGED SCHEDULE

MARK#	TONNAGE	COOLING CAPACITY (MBTU)	MCA/MOCP	VOLTAGE /PHASE	OPR WT (LB)	NOTES
CU-244	0.8	9	6/15	208/1	66	2
AH-244					20	1
CU-236	0.8	9	6/15	208/1	66	2
AH-236					20	1
CU-216	0.8	9	6/15	208/1	66	2
AH-216					20	1
CU-267	1.0	12	10/15	208/1	72	2
AH-267					25	1

NOTES: 1) REMOTE 7 DAY PROGRAMMABLE THERMOSTAT
2) REFRIGERANT: R-410A

VARIABLE AIR VOLUME (VAV) AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION	TOTAL CAPACITY (BUTH)	SENS. CAPACITY (BTUH)	LATENT CAPACITY (BTUH)	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	COIL FACE VELOCITY (FPM)	ENT. AIR TEMP.		CHILLED WATER				FILTER			TOTAL S.P. (IN. W.G.)	FAN RPM	ELECTRICAL			OPER. WEIGHT (LBS)	REMARKS
								db (°F)	wb (°F)	ENT.	LVG.	GPM	P.D. (FT.W.G.)	TYPE	MERV	AREA (SQ.FT.)			hp	VOLTS	PHASE		
								(°F)	(°F)	(°F)	(°F)												
AHU-206	FAMILY WAITING 206	64,000	40,900	23,100	4100	1100	550 (max)	65.6	60.8	44.0	54.0	12.8	10.0 (max)	2" THK THROWAWAY (PREFILTER SECTION)	8	11.1	4.25	1801	7.5	208	3	1850	PROVIDE WITH DOUBLE-WALL SOLID PANELS, VARIABLE FREQUENCY DRIVE, PREMIUM EFIC. MOTOR, SPRING ISOLATORS, STARTER & DISCONNECT
AHU-246	MECHANICAL CLOSET 246	125,300	87,800	37,500	6300	1980	550 (max)	68.2	61.4	44.0	54.0	25.1	10.0 (max)	2" THK THROWAWAY (PREFILTER SECTION)	8	28.9	4.25	1765	15	208	3	2250	PROVIDE WITH DOUBLE-WALL SOLID PANELS, VARIABLE FREQUENCY DRIVE, PREMIUM EFIC. MOTOR, SPRING ISOLATORS, STARTER & DISCONNECT
E101	1ST FLOOR	92,940	62,420	30,520	2510	250	550 (max)	80.0	67.0	44.0	54.0	18.6	10.0 (max)	2" THK THROWAWAY	8	10.04	2.00	--	1	208	3	1600	PROVIDE WITH DOUBLE-WALL SOLID PANELS, PREMIUM EFIC. MOTOR, SPRING ISOLATORS, STARTER & DISCONNECT
CC-264	LOCKER ROOM 264	89,700	37,400	52,300	1100	1100	500 (max)	87.2	78.6	44.0	54.0	17.9	10.0 (max)	2" THK THROWAWAY	8	4.44	--	--	--	--	--	650	COIL SHALL BE COATED WITH CORROSION-INHIBITING COATING, BYGOLD POLU-AL OR APPROVED EQUAL
CC-247	CORRIDOR "3" 247	161,900	67,500	94,400	1980	1980	500 (max)	87.2	78.6	44.0	54.0	32.4	10.0 (max)	2" THK THROWAWAY	8	7.84	--	--	--	--	--	850	COIL SHALL BE COATED WITH CORROSION-INHIBITING COATING, BYGOLD POLU-AL OR APPROVED EQUAL

VARIABLE AIR VOLUME (VAV) PACKAGED AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	LOCATION	TOTAL CAPACITY (BUTH)	SENS. CAPACITY (BTUH)	LATENT CAPACITY (BTUH)	AMBIENT AIR TEMP. (°F)	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ENT. AIR TEMP.		EVAPORATOR FAN				CONDENSER FAN				COMPRESSOR			EER	FILTER			OPER. WEIGHT (LBS)	REMARKS						
								db (°F)	wb (°F)	Ext. S.P. (IN. W.G.)	RPM	hp	FLA	QTY	AIRFLOW (CFM)	RPM	hp	FLA	QTY	kW		RPM	RLA EACH	LRA EACH			VOLTS	PHASE	MOCP	TYPE	MERV	AREA (SQ.FT.)
								(°F)	(°F)																							
PCU-105	ROOF	120,000	87,000	33,000	95.0	3200	400	77.0	66.0	1.3	--	3.0	--	3	10,500 (TOTAL)	1050	1/2	--	2	--	9.0	70.0	480	3	35	10.8	2" THK THROWAWAY (PREFILTER SECTION)	8			PROVIDE WITH SEISMICALLY SECURED ROOFTOP CURB, CORROSION-INHIBITING COATING ON CONDENSER COIL, FUSED DISCONNECT AND STARTER	
PCU-21	ROOF	106,700	58,200	48,500	95.0	2600	790	78.3	69.1	1.25	--	2.0	--																			

