

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	NTS	NOT TO SCALE
ASR	AUTOMATIC SPRINKLER RISER	ORD	OVERFLOW ROOF DRAIN
BFS	BELLOW FLOOR SLAB	OXY	OXYGEN
BWV	BACK WATER VALVE		
CB	CATCH BASIN	P	PUMP
CI	CAST IRON	PD	PRESSURE DROP
CO	CLEAN OUT	PVC	POLY-VINYL-CHLORIDE
CV	CONTROL VALVE		
DF	DRINKING FOUNTAIN	RC	RAIN CONDUCTOR
DIA	DIAMETER	RD	ROOF DRAIN
DN	DOWN	RI	ROUGHIN
DWH	DOMESTIC WATER HEATER	REQD	REQUIRED
E.T.C.	ELECTRICAL TRADES CONTRACTOR	SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SANVR	SHOWER
EXIST	EXISTING	SX	SINK
FD	FLOOR DRAIN	SP	STAND PIPE
FC	FINAL CONNECTIONS	SQ. FT.	SQUARE FEET
FDC	FIRE DEPT. CONNECTION	SS	SERVICE SINK
FF	FINISH FLOOR	ST	STORM
FHV	FIRE HOSE VALVE	S&W	STOP & WASTE
FT	FEET	STR	STRAINER
GAL	GALLON	SV	STACKED VENT
GD	GARBAGE DISPOSAL	TYP.	TYPICAL
GI	GREASE INTERCEPTOR	UR	URINAL
GPH	GALLONS PER HOUR	VB	VACUUM BREAKER
GPM	GALLONS PER MINUTE	VS	VENT STACK
HB	HOSE BIB	V.F.D	VARIABLE FREQUENCY DRIVE
HD	HEAD (FT)	VTR	VENT THRU ROOF
HP	HORSE POWER	W	WASTE
ID	INSIDE DIAMETER	WB	WET BULB
I.E.	INVERT ELEVATION	WC	WATER CLOSET
LAV	LAVATORY	WH	WALL HYDRANT
LT	LAUNDRY TRAY	WS	WASTE STACK
MA	MEDICAL AIR	W&V	WASTE AND VENT
MAX	MAXIMUM		
MCC	MEDICAL GAS CONSOLE		
MH	MAN HOLE		
MIN	MINIMUM		
MS	MOP SINK		
M.T.C.	MECHANICAL TRADES CONTRACTOR		

PLUMBING SYMBOLS LEGEND

PLUMBING PIPING

— CW	COLD WATER
- - CW	COLD WATER BELOW FINISH SLAB
- HW	HOT WATER
- - HW	HOT WATER BELOW FINISH SLAB
- HWR	HOT WATER RETURN
- - HWR	HOT WATER RETURN BELOW FINISH SLAB
- SW	SOFTENED WATER
- - SW	SOFTENED WATER BELOW FINISH SLAB
- SWR	SOFTENED WATER RETURN
- - SWR	SOFTENED WATER RETURN BELOW FINISH SLAB
- TW	TEMPERED WATER
- - TW	TEMPERED WATER BELOW FINISH SLAB
- TWR	TEMPERED WATER RETURN
- - TWR	TEMPERED WATER RETURN BELOW FINISH SLAB
- DI	DEIONIZED WATER
- - DI	DEIONIZED WATER BELOW FINISH SLAB
- RO	REVERSE OSMOSIS WATER
- - RO	REVERSE OSMOSIS WATER RETURN BELOW FINISH SLAB
- FP	FIRE PROTECTION
- G	GAS (NATURAL)
- LP	GAS (LIQUID PETROLEUM)
- ARV	ACID RESISTANT
- ARW	VENT ACID RESISTANT WASTE
- ARW	ACID RESISTANT WASTE BELOW FINISH SLAB
- RC	RAIN CONDUCTOR
- ST	STORM BELOW FINISH SLAB
- ORC	OVERFLOW RAIN CONDUCTOR
- - ORC	OVERFLOW RAIN CONDUCTOR BELOW FINISH SLAB
- SAN	SANITARY WASTE
- SAN	SANITARY WASTE BELOW FINISH SLAB
- V	VENT PIPING
- - V	VENT PIPING BELOW FINISH SLAB
- CA	COMPRESSED AIR
- O2	OXYGEN
- NO	NITROUS OXIDE
- N2	NITROGEN
- MA	MEDICAL AIR
- VAC	VACUUM
- - - - -	DEMOLITION

PLUMBING VALVES

— CW	GATE VALVE
- - CW	GATE VALVE
— HW	GAS COCK
- - HW	CHECK VALVE
- - HW	BALANCE COCK
- HWR	CIRCUIT SETTER
- - HWR	TWO-WAY CONTROL VALVE
- SW	THREE-WAY CONTROL VALVE
- - SW	GLOBE VALVE
- SWR	BALL VALVE
- - SWR	OS&Y VALVE
- - SWR	SOLENOID VALVE
- TW	EXPANSION VALVE WITH THERMOSTATIC BULB
- - TW	PLUG VALVE
- TWR	BUTTERFLY VALVE
- - TWR	RELIEF VALVE
- DI	HOSE & DRAIN END VALVE
- - DI	PRESSURE RELIEF VALVE
- RO	PRESSURE REDUCING VALVE
- - RO	FLANGE END CONNECTION
- FP	WALL HYDRANT & HOSE BIBB
- G	PUMP
- LP	REGULAR & OVERFLOW ROOF DRAIN
- ARV	UNION
- ARW	PIPE ANCHOR
- RC	PIPE GUIDE
- ST	FLOOR DRAIN & FLOOR SINK
- ORC	BACK FLOW PREVENTER
- - ORC	FLANGE END CONNECTION
- SAN	WALL HYDRANT & HOSE BIBB
- SAN	PIPE CAP
- V	PIPE BREAK
- - V	TRIPLE DUTY VALVE
- CA	WATER METER
- ARW	GAS METER
- RC	PRESSURE GAUGE
- ST	FIRE HYDRANT
- ORC	SPRINKLER HEAD (PENDANT)
- - ORC	SPRINKLER HEAD (UPRIGHT)
- SAN	SPRINKLER HEAD (SIDEWALL)
- SAN	FIRE DEPARTMENT CONNECTION
- SAN	PIPE FLEXIBLE CONNECTOR
- V	SIGHT GLASS
- - V	PIPE EXPANSION
- CA	COMPENSATOR FLOW SENSOR DEVICE
- O2	FLOW METER
- NO	FLOW SWITCH
- N2	PRESSURE SWITCH
- MA	SS - SUPERVISING SWITCH INVERTED
- VAC	BT - BUCKET TRAP
- - - - -	FT - FLOAT & THERMOSTATIC TRAP

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL CONFORM TO MICHIGAN PLUMBING CODE, LATEST APPLICABLE EDITION, AND ALL APPLICABLE LOCAL CODES.
- INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- INSTALL ISOLATION BALL VALVES @ ALL FIXTURE WATER SUPPLY LINES.
- ALL PIPE SIZES SHOWN ARE SERVICE SIZE, SIZE SLEEVES FOR 1" CLEAR SPACE BETWEEN PIPE AND SLEEVE FOR INSTALLATION OF MECHANICAL SEAL.
- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
- CONTRACTOR SHALL DEMOLISH & REMOVE EXISTING PIPING, FITTINGS, & EQUIPMENT AS REQUIRED FOR NEW INSTALLATIONS. VALVE & CAP PIPING TO REMAIN.
- FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
- NOTIFY OWNER OF ANY PIPING DEMOLITION THAT MAY AFFECT NORMAL OPERATION OF OTHER AREAS.
- Mechanical Seals Required for Below Grade Wall Penetrations. All Wall and Slab Penetrations of Masonry or Concrete Construction shall be Sealed.
- ALL FLOOR DRAINS TO BE EQUIPPED WITH TRAP PRIMERS OR CODE APPROVED TRAP SEALS, UNLESS OTHERWISE NOTED.
- 2% SLOPE FOR ALL SANITARY PIPING 2-1/2" OR LESS IN DIAMETER, 1% SLOPE FOR ALL SANITARY PIPING 3" OR MORE IN DIAMETER.
- 1% SLOPE FOR ALL RAIN CONDUCTOR PIPING.
- Provide Shock Stops for Every Plumbing Group. Provide Shock Absorber in the Domestic Cold and Hot Water Piping. Shock Absorbers to be located in an accessible location.
- Provide Air Elimination Devices for Each Plumbing System.
- UNLESS OTHERWISE NOTED ALL PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON AT EACH PENETRATION OF A FINISHED SURFACE.

GENERAL DEMOLITION NOTES

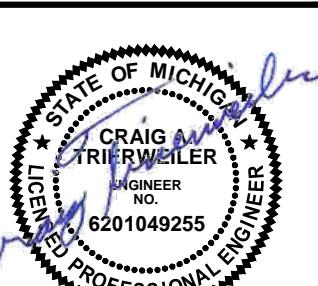
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATION OF EXISTING DUCT/PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE. EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO DEMOLITION.
- PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
- WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR OTHERS, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- COORDINATE CUTTING AND PATCHING WITH GENERAL CONTRACTOR.
- ALL BOLD DASHED LINES INDICATE ITEMS TO BE REMOVED UNLESS NOTED BY KEYNOTE. ALL OTHER EXISTING SYSTEMS SHOWN FOR REFERENCE ONLY.
- PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
- NOTATIONS ARE MADE IN VARIOUS PLACES ON THE DRAWINGS TO CALL ATTENTION TO DEMOLITION WHICH IS REQUIRED. HOWEVER, THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL MATERIALS RELATED TO THEIR RESPECTIVE TRADES AS REQUIRED TO PERMIT THE CONSTRUCTION OF THE NEW WORK AS SHOWN.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE EXTENT OF THE REQUIRED DEMOLITION OF THE EXISTING BUILDING AS REQUIRED TO FACILITATE THE CONSTRUCTION OF THE PROJECT AS SHOWN AS PART OF THIS WORK.
- ALL DEMOLITION SHALL BE APPROVED BY THE OWNER/TENANT PRIOR TO COMMENCEMENT AND SHALL BE PERFORMED UNDER REQUIREMENTS AND APPROVAL OF THE LOCAL CODE JURISDICTIONS.
- ASBESTOS ABATEMENT: CONTRACTOR SHALL NOTIFY BUILDING REPRESENTATIVE IMMEDIATELY WHEN AND IF ANY ITEMS ARE ENCOUNTERED THAT IN ANY WAY, SHAPE, OR FORM APPEAR TO BE HAZARDOUS IN NATURE. ASBESTOS ABATEMENT IS NOT PART OF THE SCOPE OF THE DESIGN PROFESSIONALS DOCUMENTATION OR RESPONSIBILITY TO SURVEY, IDENTIFY, OR FOR CONSULTATION OF PROPER DISPOSAL.
- PROTECT ALL EXISTING WORK WHICH IS TO REMAIN AND RESTORE IN AN APPROVED MANNER ANY SUCH WORK WHICH BECOMES DAMAGED.
- RUBBISH AND DEBRIS RESULTING FROM THE WORK SHALL BE REMOVED IMMEDIATELY FROM THE SITE IN A SAFE AND LEGAL MANNER BY THE CONTRACTOR.
- DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT BUILDING REPRESENTATIVE TO CLARIFY ANY ITEMS NOT SHOWN ON THESE DOCUMENTS OR SHOWN NOT MATCHING FIELD CONDITIONS.

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DESIGN AND CONSTRUCTION DIVISION

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PLUMBING EQUIPMENT

— CW	FLOW DIRECTION
- - CW	PIPING DROP
— HW	PIPING RISE
- - HW	FLOOR CLEANOUT
- SW	INLINE PIPING DROP
- - SW	INLINE PIPING RISE
- TW	INLINE PIPING
- - TW	PIPELINE TEE
- SWR	PIPELINE ELBOW
- - SWR	INLINE CLEANOUT
- SAN	PLUMBING TRAP
- SAN	THERMOMETER
- V	CONNECTION
- - V	PUMP
- ARV	UNION
- ARW	PIPE ANCHOR
- RC	PIPE GUIDE
- ST	FLOOR DRAIN & FLOOR SINK
- ORC	BACK FLOW PREVENTER
- - ORC	FLANGE END CONNECTION
- SAN	WALL HYDRANT & HOSE BIBB
- SAN	PIPE CAP
- V	PIPE BREAK
- - V	PIPE CAP
- CA	WATER METER
- ARW	GAS METER
- RC	PRESSURE GAUGE
- ST	FIRE HYDRANT
- ORC	SPRINKLER HEAD (PENDANT)
- - ORC	SPRINKLER HEAD (UPRIGHT)
- SAN	SPRINKLER HEAD (SIDEWALL)
- SAN	FIRE DEPARTMENT CONNECTION
- SAN	PIPE FLEXIBLE CONNECTOR
- V	SIGHT GLASS
- - V	PIPE EXPANSION
- CA	COMPENSATOR FLOW SENSOR DEVICE
- O2	FLOW METER
- NO	FLOW SWITCH
- N2	PRESSURE SWITCH
- MA	SS - SUPERVISING SWITCH INVERTED
- VAC	BT - BUCKET TRAP
- - - - -	FT - FLOAT & THERMOSTATIC TRAP

FIRE PROTECTION DESIGN DATA

DESIGN:

BASE HYDRAULIC CALCULATIONS ON NFPA 13 AND COMPLY WITH LOCAL FIRE MARSHALL, CODES AND AUTHORITY HAVING JURISDICTION.

AUTOMATIC SPRINKLERS:

SYSTEM: WET PIPE SYSTEM

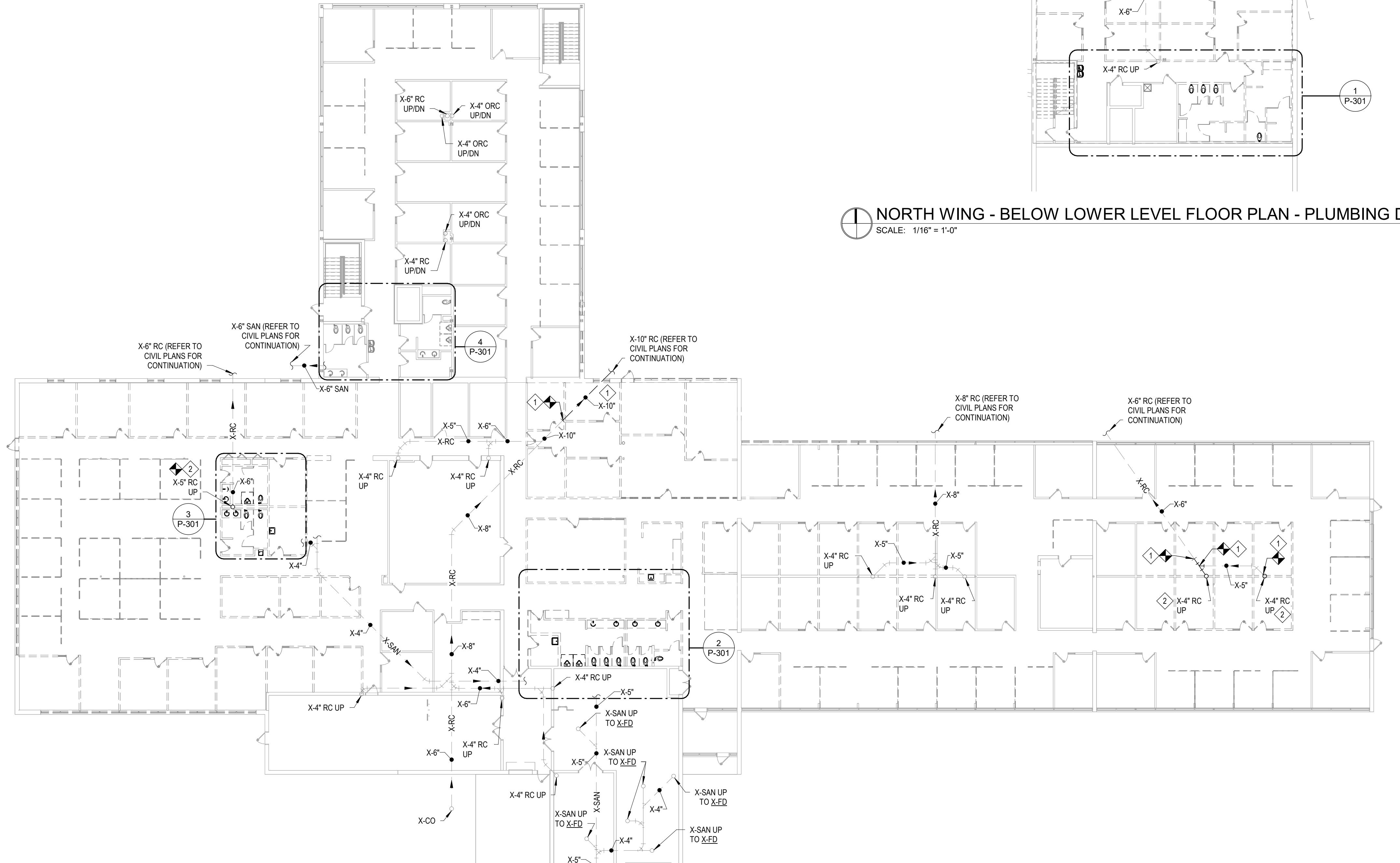
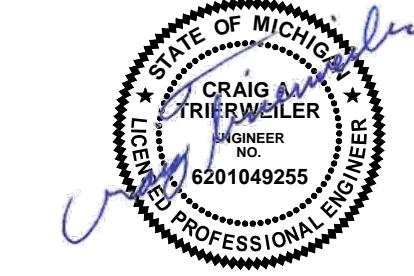
EXISTING WET PIPE SYSTEM FOR BUILDING TO REMAIN AND BE MODIFIED AS REQUIRED TO ACCOMMODATE BUILDING MODIFICATIONS AND NEW ADDITION.

INSPECTION:

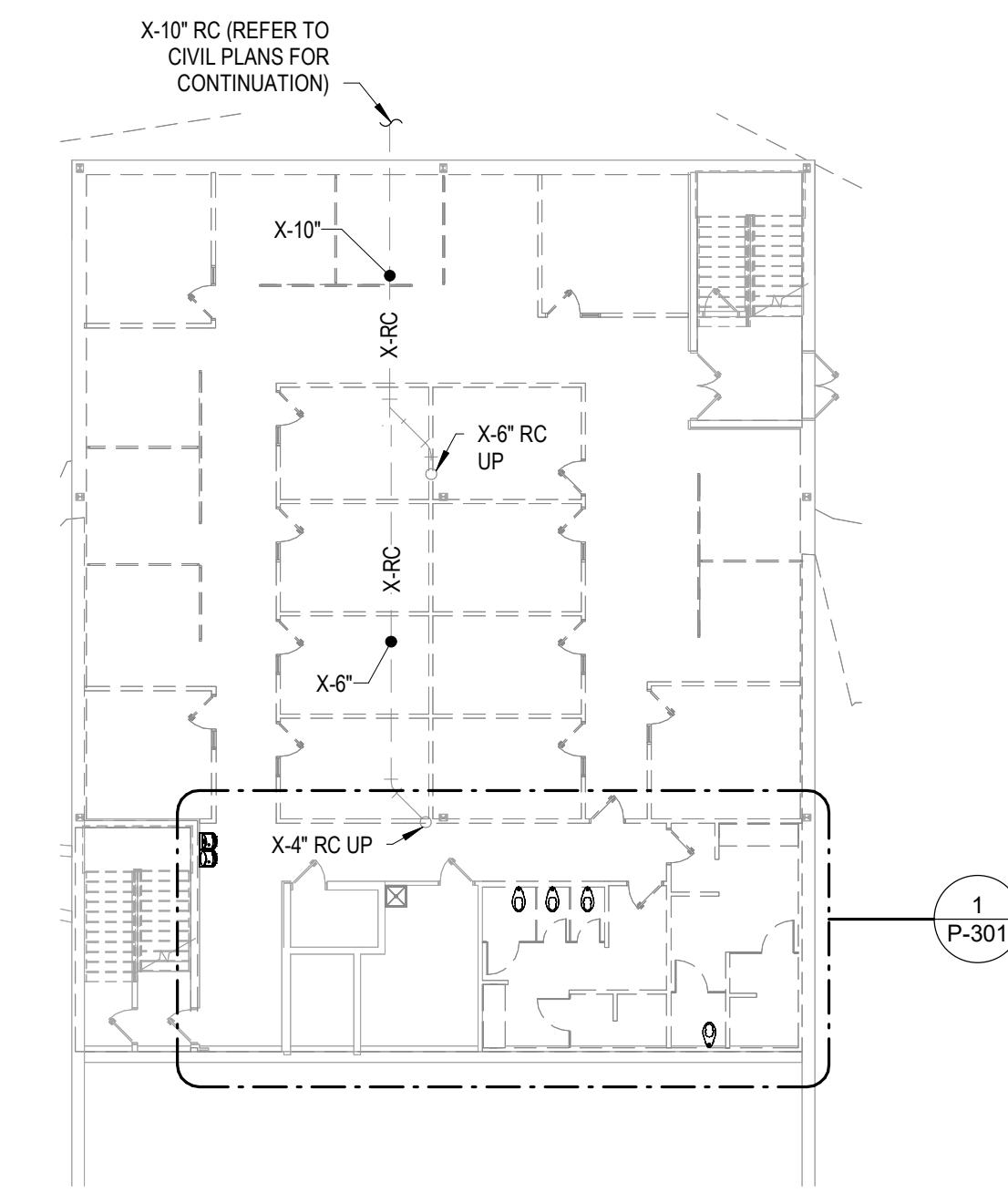
PLANS OF THE SPRINKLER SYSTEMS SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHALL AND AUTHORITY HAVING JURISDICTION FOR PLAN REVIEW.

NOTES:

1. UNLESS OTHERWISE NOTED, COORDINATE HEAD LOCATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS PRIOR TO INSTALLATION TO AVOID ANY CONFLICTS.
2. UNLESS OTHERWISE NOTED, COORDINATE HEAD LOCATIONS WITH EXISTING STRUCTURE AND UTILITIES THROUGHOUT THE BUILDING FOR INSTALLATION TO AVOID ANY CONFLICTS. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF EXISTING CEILINGS, FLOOR, AND WALLS AS NEEDED TO REMOVE AND INSTALL NEW FIRE PROTECTION PIPING. ALL CEILINGS AND WALLS TO BE PATCHED, PRIMED, AND PAINTED TO MATCH EXISTING INSTALLATION.
3. NEW FIRE PROTECTION PIPING TO BE CONCEALED ABOVE NEW CEILING



1 BELOW FIRST FLOOR FLOOR PLAN - PLUMBING DEMOLITION
SCALE: 1/16" = 1'-0"



1 NORTH WING - BELOW LOWER LEVEL FLOOR PLAN - PLUMBING DEMOLITION
SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED TO DISCONNECT, REMOVE, AND DEMO EXISTING PIPING AND ALL ASSOCIATED ACCESSORIES TO THE EXTENTS SHOWN. CONTRACTOR TO PATCH CONCRETE FLOOR TO MATCH EXISTING AND BE FLUSH WITH EXISTING FLOOR WHEN DEMOLITION/NEW WORK IS COMPLETE.
2. EXISTING SANITARY PIPING, VENT PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES REMAIN UNLESS OTHERWISE NOTED.
3. EXISTING RAIN CONDUCTOR PIPING, OVERFLOW RAIN CONDUCTOR PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION NOTES

1 DISCONNECT, REMOVE, AND DEMO EXISTING RAIN CONDUCTOR PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO THE EXTENTS SHOWN. MODIFY EXISTING PIPING AS REQUIRED TO MAKE NEW CONNECTION AS SHOWN ON NEW DRAWINGS. CONTRACTOR TO SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED TO COMPLETE WORK.

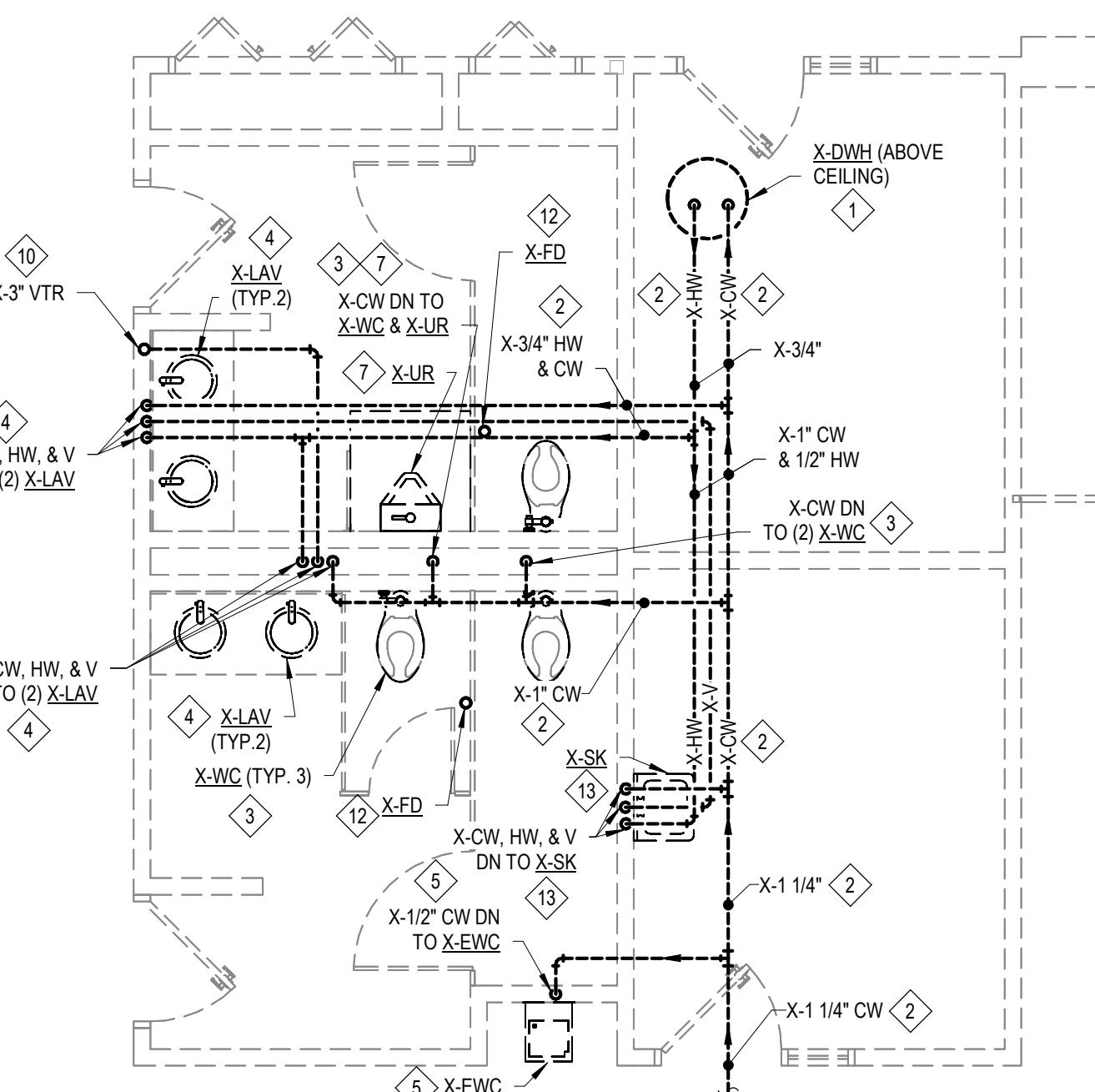
2 DISCONNECT, REMOVE, AND DEMO EXISTING RAIN CONDUCTOR RISER AND ALL ASSOCIATED ACCESSORIES IN LOCATION SHOWN TO BELOW FLOOR AND CAP. CONTRACTOR TO PATCH CONCRETE FLOOR AS REQUIRED TO BE FLUSH AND MATCH EXISTING.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO PATCH ALL WALL/FLOOR PENETRATIONS/MODIFICATIONS AS REQUIRED TO MATCH EXISTING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL/FLOOR PATCHING AND FINISHES.
2. EXISTING DOMESTIC HOT WATER PIPING, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER RETURN PIPING, VALVES, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN ON THIS SHEET UNLESS OTHERWISE NOTED.
3. EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED ACCESSORIES TO REMAIN UNLESS OTHERWISE NOTED.

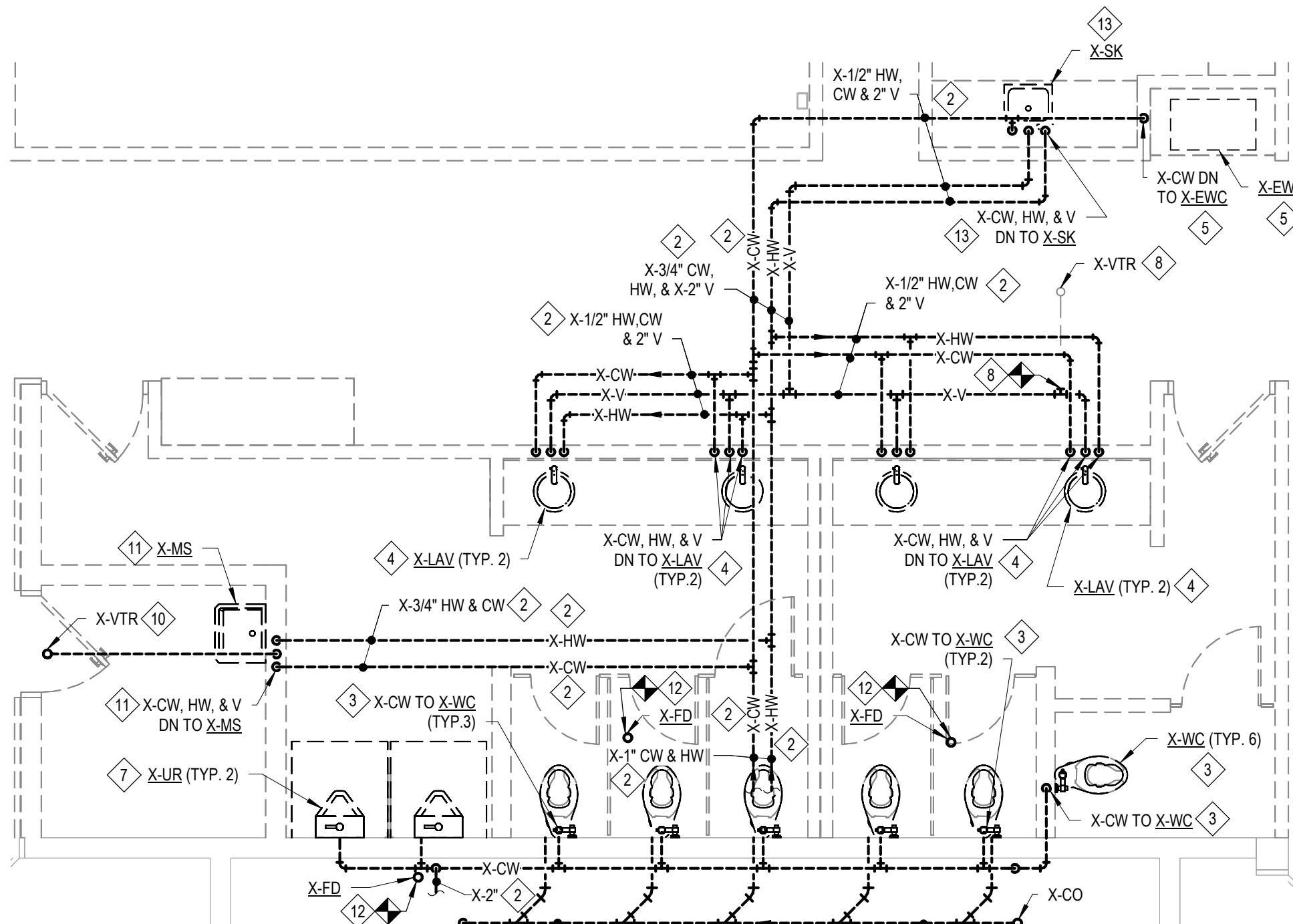
DEMOLITION NOTES

1. DISCONNECT, REMOVE, AND DEMO EXISTING DOMESTIC WATER HEATER, DOMESTIC HOT WATER PIPING, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER RETURN PIPING, VALVES, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
2. DISCONNECT, REMOVE, AND DEMO EXISTING DOMESTIC HOT WATER PIPING, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER RETURN PIPING, VALVES, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO THE EXTENTS SHOWN.
3. DISCONNECT, REMOVE, AND DEMO EXISTING WATER CLOSET, DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
4. DISCONNECT, REMOVE, AND DEMO EXISTING LAVATORY, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, VENT PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
5. DISCONNECT, REMOVE, AND DEMO EXISTING ELECTRIC WATER COOLER, DOMESTIC COLD WATER PIPING AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
6. EXISTING MOP SINK TO REMAIN. DISCONNECT, REMOVE, AND DEMO EXISTING DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, AND ALL ASSOCIATED ACCESSORIES AS NEEDED TO CONNECT TO NEW PIPING.
7. DISCONNECT, REMOVE, AND DEMO EXISTING URINAL, DOMESTIC COLD WATER PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
8. DISCONNECT, REMOVE, AND DEMO EXISTING VENT PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO THE EXTENTS SHOWN. EXISTING VENT RISER UP THROUGH ROOF TO REMAIN AND BE REUSED IN NEW DESIGN.
9. DISCONNECT, REMOVE, AND DEMO EXISTING SHOWER ENCLOSURE, SHOWER HEAD, SHOWER VALVE, SHOWER DRAIN, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
10. DISCONNECT, REMOVE, AND DEMO EXISTING VENT PIPING, FITTINGS, ROOF BOOT, AND ALL ASSOCIATED ACCESSORIES. CONTRACTOR TO PATCH EXISTING ROOF PENETRATION AS REQUIRED TO MATCH EXISTING AND SEAL WATER TIGHT.
11. DISCONNECT, REMOVE, AND DEMO EXISTING MOP SINK, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, VENT PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
12. DISCONNECT, REMOVE, AND DEMO EXISTING FLOOR DRAIN AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
13. DISCONNECT, REMOVE, AND DEMO EXISTING SINK, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, VENT PIPING, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.
14. DISCONNECT, REMOVE, AND DEMO EXISTING SANITARY PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY.



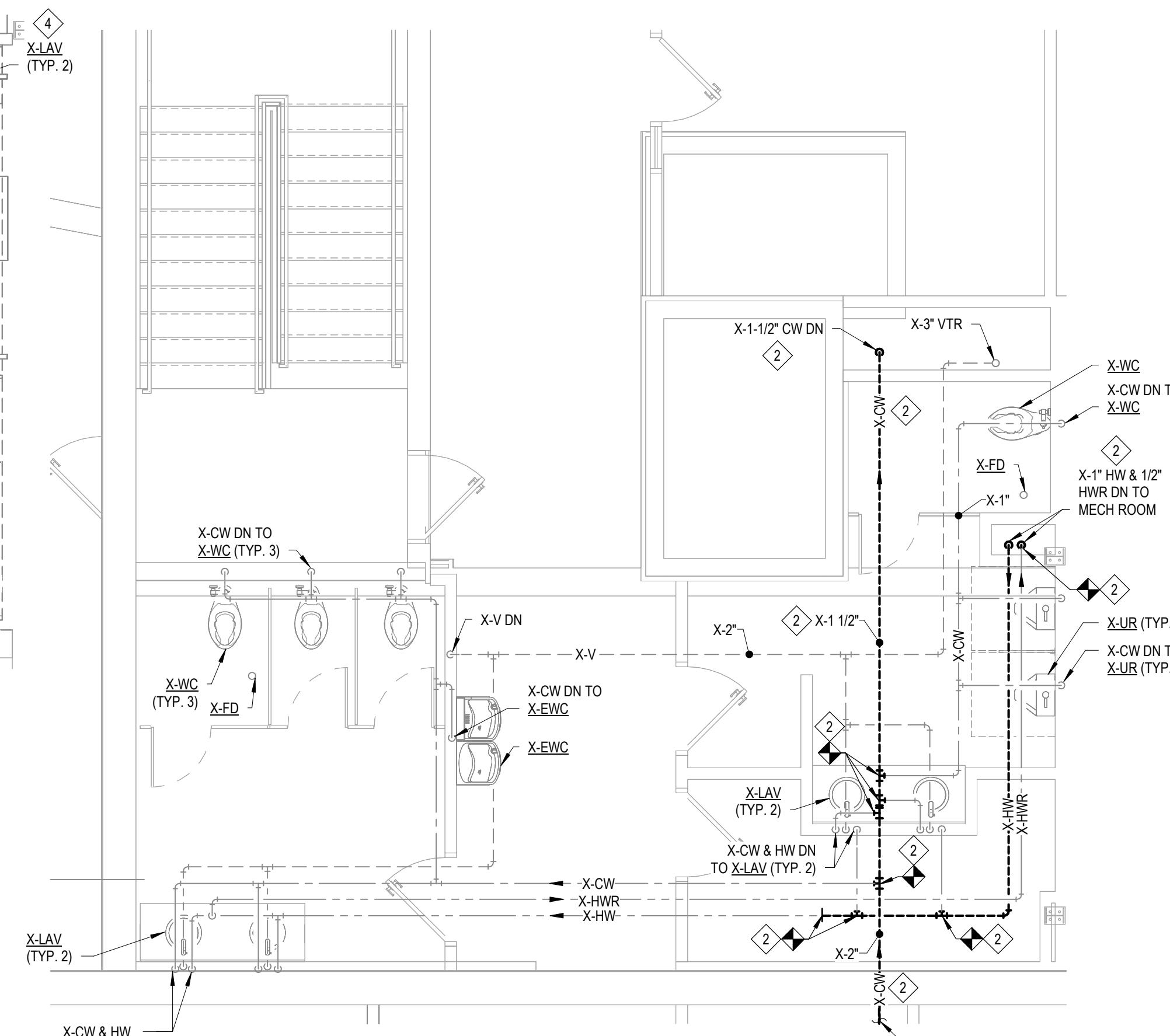
WEST WING - FIRST FLOOR BATHROOM
ENLARGED PLAN - PLUMBING DEMOLITION

3
P-303
SCALE = 1/4" = 1'-0"



EAST WING - FIRST FLOOR BATHROOM
ENLARGED PLAN - PLUMBING DEMOLITION

4
P-303
SCALE = 1/4" = 1'-0"

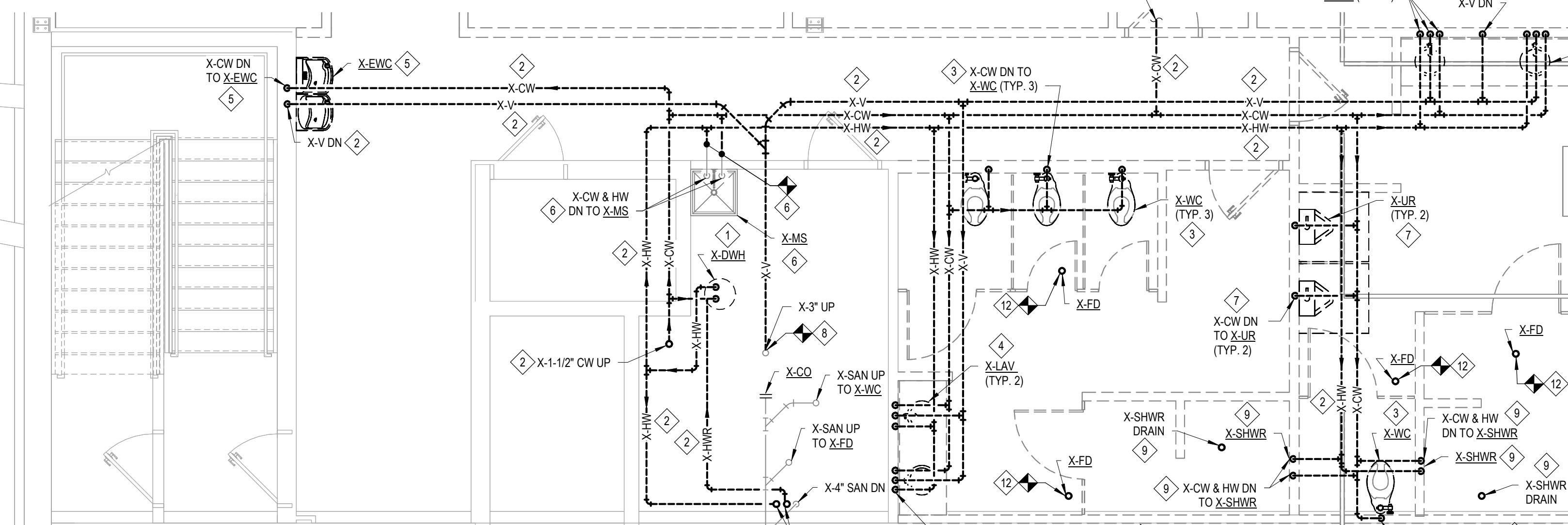


NORTH WING - FIRST FLOOR BATHROOM -
ENLARGED PLAN PLUMBING DEMOLITION

1
P-303
SCALE = 1/4" = 1'-0"

NORTH WING - FIRST FLOOR BATHROOM -
ENLARGED PLAN PLUMBING DEMOLITION

1
P-303
SCALE = 1/4" = 1'-0"



NORTH WING LOWER LEVEL BATHROOM
ENLARGED PLAN - PLUMBING DEMOLITION

2
P-303
SCALE = 1/4" = 1'-0"



SHEET TITLE: FIRST FLOOR ENLARGED FLOOR PLAN - PLUMBING DEMOLITION
SHEET: P-303
IDENTIFICATION NO.: PROJECT NO: 24986.00
ISSUED FOR: PRELIMINARY CONSTRUCTION FINAL RECORD
DATE: 11/15/2025
DESIGNED BY: TAT
DRAWN BY: TAT
CHECKED BY: TAT
APPROVED BY: TAT

72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
CALL: MR. ZIMMERMAN
PH: (248) 606-8821
FILE NO./INDEX CODE: 7200 W. Argyle St., Jackson, MI 49202

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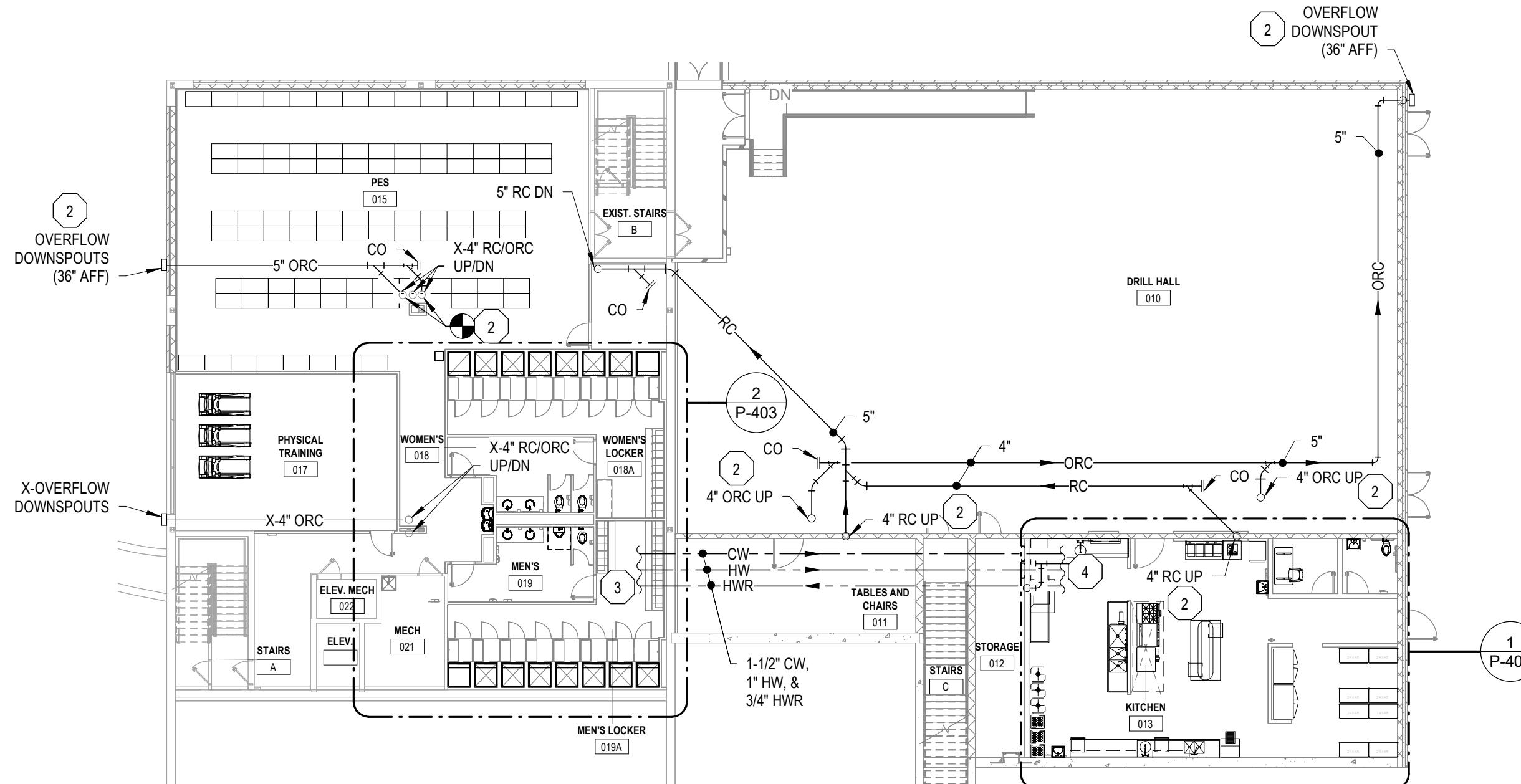
ROOF PLAN - PLUMBING DEMOLITION
SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES

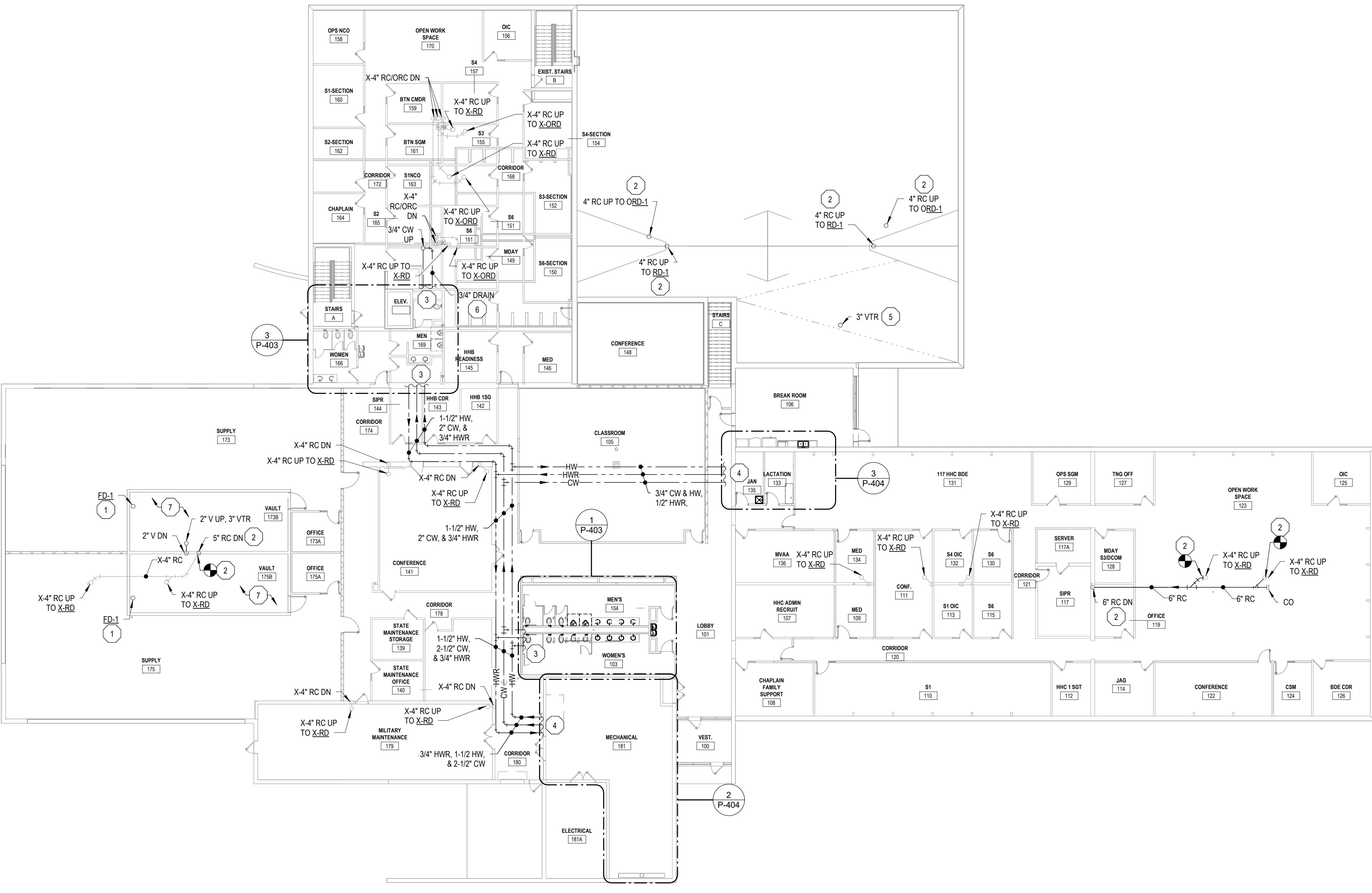
- EXISTING ROOF DRAIN, OVERFLOW ROOF DRAIN, PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES TO REMAIN.
- EXISTING VENT PIPING AND ALL ASSOCIATED ACCESSORIES TO REMAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR TO PATCH ROOF TO MATCH EXISTING AND SEAL WATER TIGHT AFTER ALL DEMOLITION/NEW WORK IS COMPLETE.

DEMOLITION NOTES

DISCONNECT, REMOVE, AND DEMO EXISTING VENT PIPING AND ALL ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. CONTRACTOR TO PATCH ROOF AS REQUIRED TO MATCH EXISTING AND SEAL WATER TIGHT.



1 LOWER LEVEL FLOOR PLAN - PLUMBING NEW
SCALE: 1/16" = 1'-0"



1 FIRST FLOOR PLAN - PLUMBING NEW
SCALE: 1/16" = 1'-0"

GENERAL PLUMBING NOTES

1. INSTALL NEW DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, DOMESTIC HOT WATER RETURN PIPING, VENT PIPING, RAIN CONDUCTOR PIPING, VALVES, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN.
2. INSTALL ALL NEW EQUIPMENT/PLUMBING FIXTURES PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE LOCATION SHOWN.
3. MODIFY EXISTING/INSTALL NEW FIRE SUPPRESSION SYSTEM AS REQUIRED TO SPRINKLE THE ENTIRE BUILDING PER NFPA 13. FIRE SUPPRESSION DESIGN & PIPING SHALL BE BY CERTIFIED FIRE SUPPRESSION CONTRACTOR.
4. CONTRACTOR TO ROUTE NEW PLUMBING VENTS THROUGH NEW ROOF CURB AND NEW ROOF BOOT. CONTRACTOR TO PATCH VENT PENETRATIONS TO SEAL WATER TIGHT.
5. MODIFY EXISTING FIRE SUPPRESSION AS NEEDED PER NFPA 13 FOR NEW ROOM LAYOUTS.
6. INSTALL NEW SPRINKLER HEADS AND FIRE SUPPRESSION PIPING AS REQUIRED TO SPRINKLE THE ENTIRE BUILDING PER NFPA 13. FIRE SUPPRESSION DESIGN & PIPING SHALL BE BY CERTIFIED FIRE SUPPRESSION CONTRACTOR.

PLUMBING KEY NOTES

1. INSTALL NEW FLOOR DRAIN, SANITARY PIPING, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL NEW RAIN CONDUCTOR PIPING, OVERFLOW RAIN CONDUCTOR PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN. MODIFY EXISTING RAIN CONDUCTOR/OVERFLOW RAIN CONDUCTOR PIPING AS REQUIRED TO MAKE NEW CONNECTION.
3. REFER TO DRAWING P-403 FOR PIPING CONTINUATION.
4. REFER TO DRAWING P-404 FOR PIPING CONTINUATION.
5. CONTRACTOR TO ROUTE NEW PLUMBING VENTS THROUGH NEW ROOF CURB AND NEW ROOF BOOT. CONTRACTOR TO PATCH VENT PENETRATIONS TO SEAL WATER TIGHT.
6. INSTALL NEW DRAIN PIPING, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN.
7. VAULT AREAS ARE TO NOT HAVE SPRINKLER HEADS/MET FIRE SUPPRESSION SYSTEM INSTALLED. FIRE SUPPRESSION CONTRACTOR IS TO COORDINATE WITH FIRE ALARM CONTRACTOR TO ENSURE APPROVED AUTOMATIC FIRE DETECTION SYSTEMS ARE INSTALLED IN THESE SPACES.





ROOF PLAN - PLUMBING NEW
SCALE: 1/16" = 1'-0"

GENERAL PLUMBING NOTES

1. CONTRACTOR TO COORDINATE THE FLASHING OF ALL NEW ROOF DRAINS WITH ROOFING CONTRACTOR TO ENSURE ALL ROOF PENETRATIONS ARE SEALED WATERTIGHT.

PLUMBING KEY NOTES

1. INSTALL NEW ROOF DRAIN, PIPING, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NEW ROOF DRAIN TO NEW RAIN CONDUCTOR PIPING RISER.
2. INSTALL NEW OVERFLOW ROOF DRAIN, PIPING AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NEW OVERFLOW ROOF DRAIN TO NEW OVERFLOW RAIN CONDUCTOR PIPING RISER. INSTALL NEW OVERFLOW ROOF DRAINS WITH 3" WATER DAM RING.
3. INSTALL NEW ROOF MOUNTED, FREEZE PROOF HOSE BIB, COLD WATER PIPING, VALVES, FITTINGS, AND ALL ASSOCIATED ACCESSORIES IN THE LOCATION SHOWN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. CONTRACTOR TO ROUTE NEW PLUMBING VENTS THROUGH NEW ROOF CURB AND NEW ROOF BOOT. CONTRACTOR TO PATCH VENT PENETRATIONS TO SEAL WATER TIGHT.

WATER SOFTENER/BRINE TANK SCHEDULE												
TAG	MODEL	LOCATION	TYPE	EXCHANGE CAPACITY (GRAINS)	FLOW RATE CONT. / PEAK (GPM)	MINERAL TANK DIA x HEIGHT (IN)	BRINE TANK DIA x HEIGHT (IN)	ELECTRICAL			COMMENTS	
								VOLTAGE	PHASE	DISC. BY		
WS-1 & 2 / BT-1	MR-150-2 TWM	SOUTH MECH. ROOM	TWIN ALTERNATING SYSTEM	150,000	69 / 97	20 x 54	20 x 50	120	1	EC	1,2,3,4,5,6	

NOTES:

1. BASED ON: MARLO INCORPORATED
2. ELECTRICAL NOTES:
EC - ELECTRICAL CONTRACTOR
MC - MECHANICAL CONTRACTOR
NR - NOT REQUIRED
3. ELECTRONIC SYSTEM CONTROLLER
4. INLET/OUTLET PRESSURE GAUGES
5. SKID MOUNTED
6. 2' INLET AND 2' OUTLET

CIRCULATING PUMP SCHEDULE												
TAG	MODEL	LOCATION	SYSTEM	FLUID	GPM	HEAD (FT)	TEMP °F	TYPE	ELECTRICAL			COMMENTS
									VOLTS	PHASE	HP	
P-14	PL-36	SOUTH MECH. ROOM	DOM. HW	HW	3.5	20	120	INLINE	120	1	1/6	1,2,3,4

NOTES:

1. BASED ON: BELL & GOSSETT
2. DISCONNECT BY EC
3. BRONZE BODY
4. PUMP TO RUN CONTINUOUS

WASTE WATER PUMP SCHEDULE													
TAG	MODEL	TYPE	GPM	FT. HEAD	DISCHARGE		BASIN		ELECTRICAL			COMMENTS	
					PIPE	SOLID	TYPE	DIA	DEPTH	HP	VOLTS	PHASE	
SE-1	2533	DUPLEX	80	26	3"	0.5"	PP	36"	48"	2	480	3	1750

NOTES:

1. BASED ON: WEIL
2. PROVIDE CONTROL PANEL W/ INTERNAL DISCONNECT & STARTER
3. PROVIDE LEVEL CONTROL SYSTEM WITH HIGH LEVEL ALARM STROBE LIGHT
4. PROVIDE BASIN COVER
5. SUBMERSIBLE SLICER PUMP
6. STAINLESS STEEL IMPELLER
7. REMOVABLE MOUNTING STYLE WITH MANU. PROVIDED MOUNTING EQUIPMENT
8. ACTIVATION FLOAT INSTALLED AT PROPER LOCATION TO ENSURE MINIMUM 90 SECOND RUN TIME



TAG	Fixture	Basis of Design		Min Rough-In			Faucet Type	Fixture Size	Accessories and Comments
		Manufacturer	Model	CW	HW	San			
WC-1	WALL MOUNTED WATER CLOSET	AMERICAN STANDARD	PRIOL0 3690.001	1"	-	4"	2"	SLOAN WES-111 FLUSH VALVE	-
WC-2	WALL MOUNTED WATER CLOSET (B.F.)	AMERICAN STANDARD	PRIOL0 3695.001	1"	-	4"	2"	SLOAN WES-111 FLUSH VALVE	-
WC-3	FLOOR MOUNTED FLUSH VALVE WATER CLOSET (B.F.)	AMERICAN STANDARD	MADERA 3461.001	1"	-	4"	2"	SLOAN WES-111 FLUSH VALVE	-
UR-1	WALL HUNG URINAL	AMERICAN STANDARD	FLO-WSE #6550.001	3/4"	-	2"	1 1/2"	SLOAN 186-0.5 FLUSH VALVE	-
UR-2	WALL HUNG URINAL (B.F.)	AMERICAN STANDARD	FLO-WSE #6550.001	3/4"	-	2"	1 1/2"	SLOAN 186-0.5 FLUSH VALVE	-
LAV-1	COUNTERTOP LAVATORY (B.F.)	BRADLEY	SL-T01	1/2"	1/2"	1 1/2"	1 1/2"	CHICAGO FAUCET 895-317 RGD2AB	18 x 14 75 OVAL
LAV-2	WALL HUNG LAVATORY (B.F.)	AMERICAN STANDARD	LUCERNE 0355.012	1/2"	1/2"	1 1/2"	1 1/2"	CHICAGO FAUCET 895-317 RGD2AB	20 x 18
SK-1	STAINLESS STEEL SINK (B.F.)	ELKAY	LUSTERONE CLASSIC	1/2"	1/2"	1 1/2"	1 1/2"	ELKAY LKGT4083	33 x 21 x 5.5
SHWR-1	SHOWER FAUCET (B.F.)	BEST BATH	SS3636CP	1/2"	1/2"	-	-	SINGLE LEVER	-
EWC-1	ELECTRIC WATER COOLER WALL HUNG BI-LEVEL	ELKAY	LZSTL8WSLP	1/2"	-	1 1/2"	1 1/2"	-	-
RH-1	ROOF HYDRANT	WOODFORD	RHY2-1-MS	1"	-	-	-	-	-
FS-1	FLOOR SINK	-	-	-	-	-	-	-	12 x 12 TOP
MS-1	MOP SINK	-	-	1/2"	1/2"	3"	1 1/2"	SERVICE SINK FAUCET	24 x 24 x 12
FD-1	FINISH AREA FLOOR DRAIN	-	-	-	-	-	-	-	5" ROUND TOP
RD-1	ROOF DRAIN	-	-	-	-	-	-	-	-
ORD-1	OVERFLOW ROOF DRAIN	-	-	-	-	-	-	-	-

KITCHEN PLUMBING FIXTURE SCHEDULE

TAG	Fixture	Basis of Design		Min Rough-In Connection Size					Faucet Type	Fixture Size	Accessories and Comments
		Manufacturer	Model	CW	HW	INDIRECT WASTE	DIRECT WASTE	Vent			
KE-5	PREP SINK	COMMERCIAL STAINLESS	CSCSD	1/2"	1/2"	-	2"	2"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-8	GRIDLE TOP	VULCAN	36S-36GN	-	-	-	-	3/4"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-10	ICE MAKER	SCOTTMAN PRODIGY PLUS	C0530MA-32	3/8"	-	3/4"	-	-	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-12	HAND SINK	EAGLE GROUP	HSA-10-FAW	1/2"	1/2"	-	1-1/2"	2"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-16	DISHWASHER	HOBART	AM15VL	1/2"	1/2"	2"	-	-	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-17-19	TRIPLE POT SINK	JUST	CUSTOM	1/2"	1/2"	2"	-	2"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-20	COFFEE MAKER	BUNN	CWTF-4/2 TWIN	3/8"	-	-	-	-	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-24	DOUBLE CONVECTION OVEN	VULCAN	SG44	-	-	-	-	3/4"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-25	COMMERCIAL GAS RANGE	VULCAN	36S-6BN	-	-	-	-	3/4"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS
KE-36	CIRCULAR RINSE SINK	CUSTOM	CUSTOM	1/2"	1/2"	-	2"	2"	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS	SEE KITCHEN VENDOR DRAWINGS

MIXING VALVE SCHEDULE							
TAG	MODEL	MINIMUM FLOW (GPM)	OPERATING FLOW (GPM)	MAX PRESSURE DROP AT OPERATING FLOW (PSI)	INLET SIZES (IN.)	OUTLET SIZE (IN.)	COMMENTS

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