

100% SUBMITTAL

DOMESTIC WATER PIPING REPLACEMENT

FOR THE

CITY OF VALDEZ GEORGE H. GILSON MIDDLE SCHOOL

PREPARED BY:

RSA

Engineering, Inc.

MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS

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EXHIBIT DRAWINGS

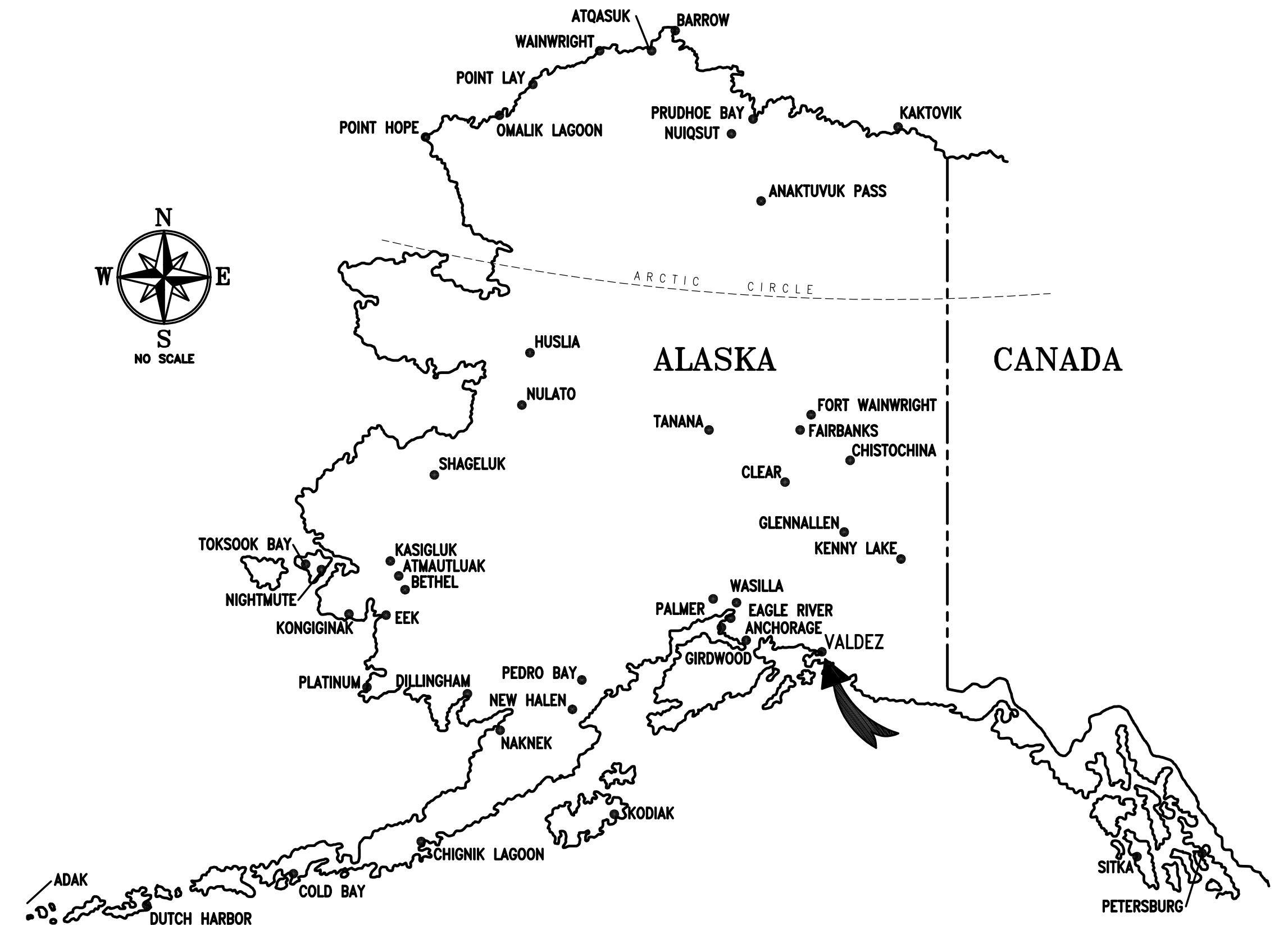
2013 VALDEZ MIDDLE SCHOOL PLUMBING DRAWINGS

EXHIBIT DRAWING NOTE:

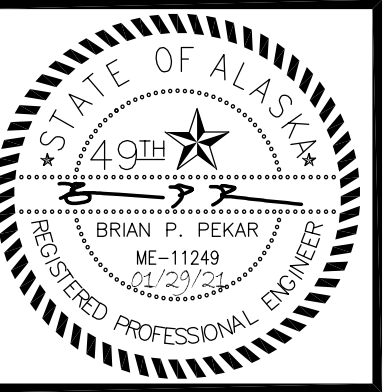
THE EXHIBIT DRAWINGS ARE INTENDED AS REFERENCE FROM A PAST CONSTRUCTED PROJECT. THE PLANS ARE A COPY OF THE ORIGINAL DOCUMENTS, PROVIDED BY THE OWNER. ALL CRITICAL COMPONENTS OR DIMENSIONS THAT AFFECT ASSOCIATED WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF WORK.

SUMMARY OF WORK:

PROJECT INCLUDES REPLACEMENT OF THE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING IN THE BUILDING. PIPING WILL BE REPLACED IN ITS ENTIRETY TO THE EXISTING FIXTURES. WHERE ACCESS TO PIPING IS NOT POSSIBLE, WALLS AND CEILINGS WILL BE CUT AND PATCHED AS REQUIRED FOR PIPING REPLACEMENT.



VALDEZ, ALASKA



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VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
 GEORGE H. GILSON MIDDLE SCHOOL
 357 ROBE RIVER DRIVE,
 VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP,AJS
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DRAWING TITLE:
 LEGENDS,
 ABBREVIATIONS,
 SCHEDULES

SHEET:
M001

PIPING LEGEND	LOGIC	ABBREVIATIONS
DENOTES DEMOLITION WASTE VENT PIPING COLD WATER HOT WATER HOT WATER RECIRCULATED SEE ABBREVIATIONS FOR MEDIA PIPE UP PIPE DOWN TEE UP TEE DOWN CAP UNION DIRECTION OF FLOW BALL/BUTTERFLY VALVE GATE VALVE BACKFLOW PREVENTER	POINT OF CONNECTION DETAIL NUMBER SHEET LOCATED ON DIRECTION OF VIEW SECTION NUMBER SHEET LOCATED ON SHEET NOTES	ABV ABOVE ACT ACOUSTICAL CEILING TILE ADA AMERICAN W/ DISABILITIES ACT GUIDELINES AD ACCESS DOOR AHAP AS HIGH AS POSSIBLE AMPS AMPERES APD AIR PRESSURE DROP ARW ACID RESISTANT WASTE BLDG BUILDING BTUH BRITISH THERMAL UNIT/HOUR CAP CAPACITY DEG DEGREE DIM DIMENSION DN DOWN DWG DRAWING EAT ENTERING AIR TEMPERATURE EWT ENTERING WATER TEMPERATURE ESP EXTERNAL STATIC PRESSURE ENT ENTERING (E) EXISTING FT FEET FPM FEET PER MINUTE FC FORWARD CURVE F FAHRENHEIT GA GAUGE GPM GALLONS PER MINUTE GWB GYPSUM WALLBOARD HW HOT WATER HWC HOT WATER CIRCULATED HP HORSEPOWER IN INCHES MAX MAXIMUM MBH THOUSAND BTUH MFR MANUFACTURER MIN MINIMUM MTD MOUNTED NPCW NONPOTABLE COLD WATER NPHW NONPOTABLE HOT WATER NTS NOT TO SCALE OC ON CENTER O/A OUTSIDE AIR OD OUTSIDE DAMPER PD PRESSURE DROP PH PHASE PSI POUND PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAUGE R/A RETURN AIR RPM REVOLUTIONS PER MINUTE S/A SUPPLY AIR SCFM STANDARD CUBIC FEET PER MINUTE SP STATIC PRESSURE SQ SQUARE TEMP TEMPERATURE TOD TOP OF DUCT TSP TOTAL STATIC PRESSURE T'STAT THERMOSTAT TTL TOTAL TYP TYPICAL UPC UNIFORM PLUMBING CODE V VENT VTR VENT THRU ROOF WC WATER COLUMN WG WATER GAUGE

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FUNCTION	MEDIUM	MATERIAL	TANK VOLUME		DIMENSIONS	LABEL	REMARKS
						TOTAL (GAL)	ACCEPTANCE (GAL)			
ET-1	AMTROL	THERM-X-TROL ST-5	DOMESTIC WATER	WATER	STEEL/BUTYL	2.0	0.9	13"H X 8"DIA	IAPMO	PRECHARGE TO INCOMING CITY WATER PRESSURE

TEMPERING VALVE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	INLET (CW/HW)	OUTLET	TEMPERATURE RANGE F	SET POINT F	FLOW RATE	PRESS. DROP	POWER	ACCESSORIES/REMARKS
TV-1	WATTS	LFIS100VL	1-1/4"	1-1/2"	60-180°F	115°F	55 GPM	10 PSI	20 W; 120/60/1	DIGITAL WATER MIXING VALVE, ASSE 1017 AND NSF 61 LISTED.

PLUMBING FIXTURE SCHEDULE - EXISTING TO REMAIN

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	TRIM/REMARKS
P-1	WATER CLOSET	WALL	1	--	4	2	--	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-2	WATER CLOSET-ADA	WALL	1	--	4	2	--	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-2A	WATER CLOSET-ADA	FLOOR	1	--	4	2	--	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-3	URINAL	WALL	3/4	--	2	1-1/2	--	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-3A	URINAL-ADA	WALL	3/4	--	2	1-1/2	--	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-4	LAVATORY-ADA	WALL	1/2	1/2	1-1/2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-5	LAVATORY-ADA	COUNTER	1/2	1/2	1-1/2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6A	SINK - SINGLE COMPARTMENT	COUNTER	1/2	1/2	2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6B	SINK - TWO COMPARTMENT	COUNTER	1/2	1/2	2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6C	SINK - WORKROOM	COUNTER	1/2	1/2	2	1 1/2	1 1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6D	SINK - SCIENCE	COUNTER	1/2	1/2	2	1 1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6E	SINK - UTILITY	FLOOR	1/2	1/2	2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6F	SINK - SHOP	WALL	1/2	1/2	2	1 1/2	1 1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6G	SINK - JANITOR	FLOOR	1/2	1/2	3	2	3	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-6H	SINK - JANITOR	FLOOR	1/2	1/2	3	2	3	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-7	EMERGENCY EYEWASH	WALL	1/2	1/2	1 1/2	1 1/2	1 1/4	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-8A	DRINKING FOUNTAIN - SINGLE W/BOTTLE FILL STATION	WALL	1/2	1/2	1-1/2	1 1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-8B	DRINKING FOUNTAIN - SINGLE ADA	WALL	1/2	1/2	1-1/2	1 1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.

0"
1"
2"
3"

PLUMBING FIXTURE SCHEDULE - EXISTING TO REMAIN

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	TRIM/REMARKS
P-8C	DRINKING FOUNTAIN - DUAL W/BOTTLE FILL STATION	WALL	1/2	1/2	1-1/2	1 1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-9	WASHER BOX	WALL	3/4	3/4	2	1 1/2	2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-10	SHOWER	---	1/2	1/2	1-1/2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-10A	SHOWER - ADA	---	1/2	1/2	1-1/2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-11	REFRIGERATOR - ICE BOX	---	3/8	---	---	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
P-12	EYE WASH/SHOWER	FLOOR	1 1/2	1 1/2	2	1-1/2	2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-16,17	MOP SINK	FLOOR	1/2	1/2	2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-22,23,24	ICE MACHINE, WATER FILTER	---	1/2	---	1/2, 3/4	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-35,36	HAND SINK	WALL	1/2	1/2	1-1/2	1-1/2	1-1/2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-42,43,44	PREP SINK,WASTE DISPOSER	---	1/2 (2)	1/2	1-1/2, 2	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-50,51	PREP SINK	---	1/2	1/2	1-1/2	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-56,57	COMBI OVEN - DOUBLE	---	3/4 (4)	---	2 (2)	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-59	STEAM KETTLE	---	1/2	1/2	---	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-60	FLOOR DRAIN TROUGH	---	---	---	3	2	3	----
K-62	STEAM KETTLE	---	---	---	1 1/4	---	---	----
K-63	WW EXHAUST HOOD	---	---	---	2	---	---	----
K-71	FIVE WELL HOT FOOD UNIT	---	---	---	1	---	---	----
K-75	FOUR PAN UNIT	---	---	---	1	---	---	----
K-83	WW HOOD CONTROL PNL	---	---	1	3/4	---	---	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-90,91	PRE-RINSE, WASTE DISPOSER	---	1/2 (2)	1/2	2	2	2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
K-92	HIGH TEMP DISHWASHER	---	---	---	1-1/2	1-1/2	1-1/2	----
K-94	VENTLESS VAPOR RECOVERY	---	---	---	1/2	---	---	----
K-96,97,98	SINK - 3-COMPARMENT	---	1/2 (2)	1/2 (2)	2	2	2	REMOVE AND REINSTALL EXISTING FIXTURE AND TRIM. PROVIDE NEW ANGLE STOPS.
HB-1	HOSE BIBB - EXTERIOR	WALL	3/4	---	---	---	---	----
HB-2	HOSE BIBB - INTERIOR	WALL	3/4	3/4	---	---	---	----
HB-3	HOSE BIBB - INTERIOR	WALL	3/4	---	---	---	---	----
FH-1	FUME HOOD	FLOOR	1/2	---	2	1-1/2	1-1/2	----



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REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP,AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 SCHEDULES

SHEET:
M002



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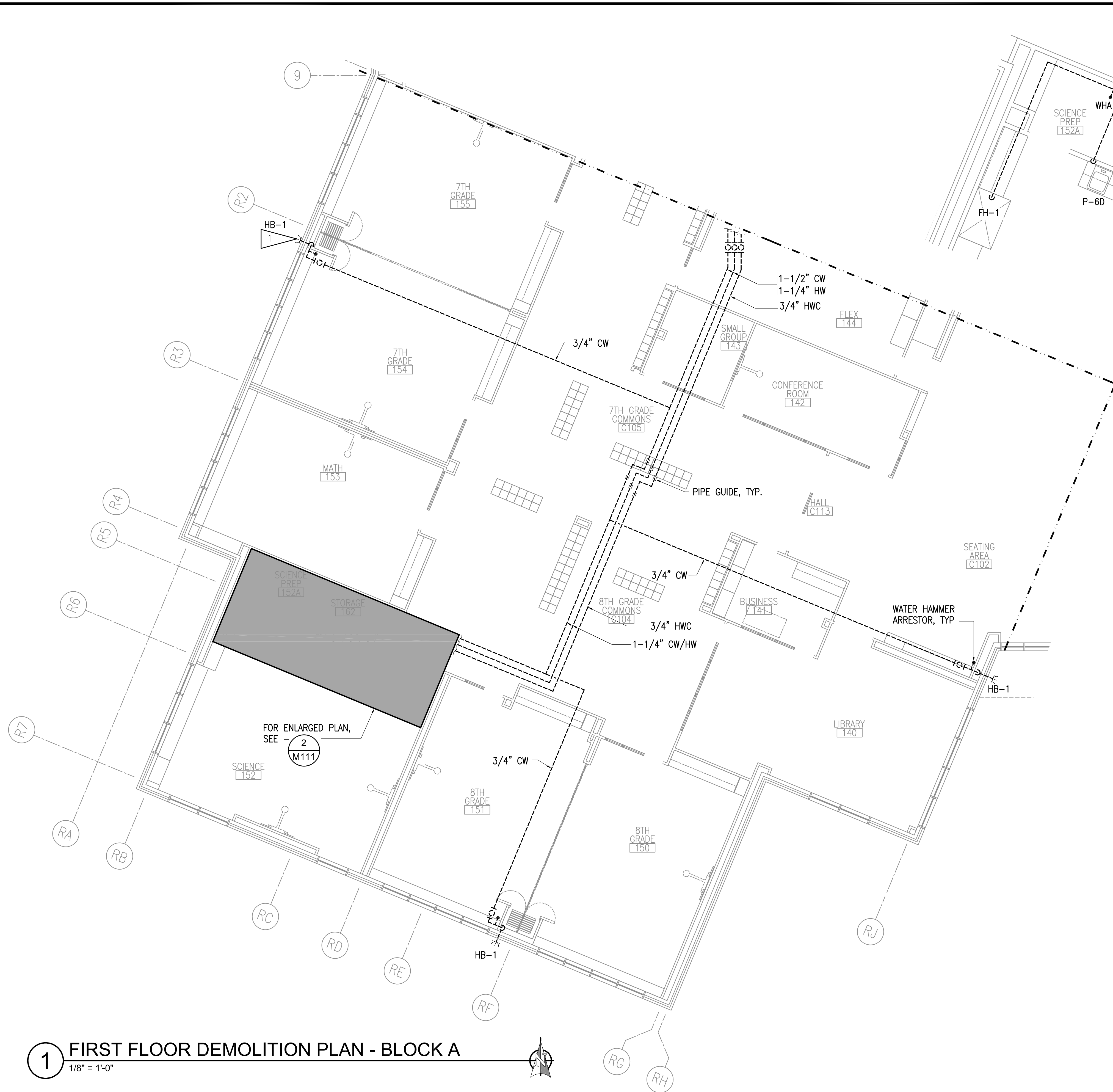
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DRAWING TITLE:
 FIRST FLOOR DEMOLITION
 PLAN - BLOCK A

SHEET:
M111

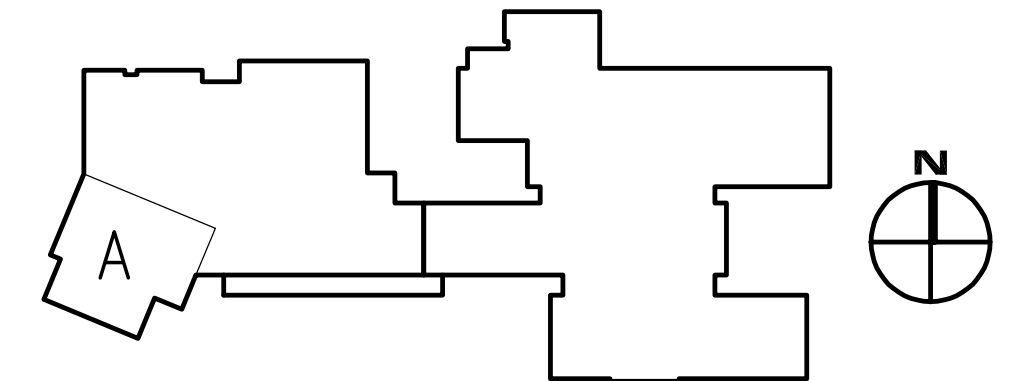


2 ENLARGED DEMOLITION - 152
 1/4" = 1'-0"

GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. ALL PLUMBING FIXTURES TO BE REMOVED AND RE-INSTALLED AS REQUIRED FOR NEW PIPING INSTALLATION. DEMOLISH ANGLE STOPS ON PLUMBING FIXTURES.

1 FIRST FLOOR DEMOLITION PLAN - BLOCK A
 1/8" = 1'-0"



0"
1"
2"
3"



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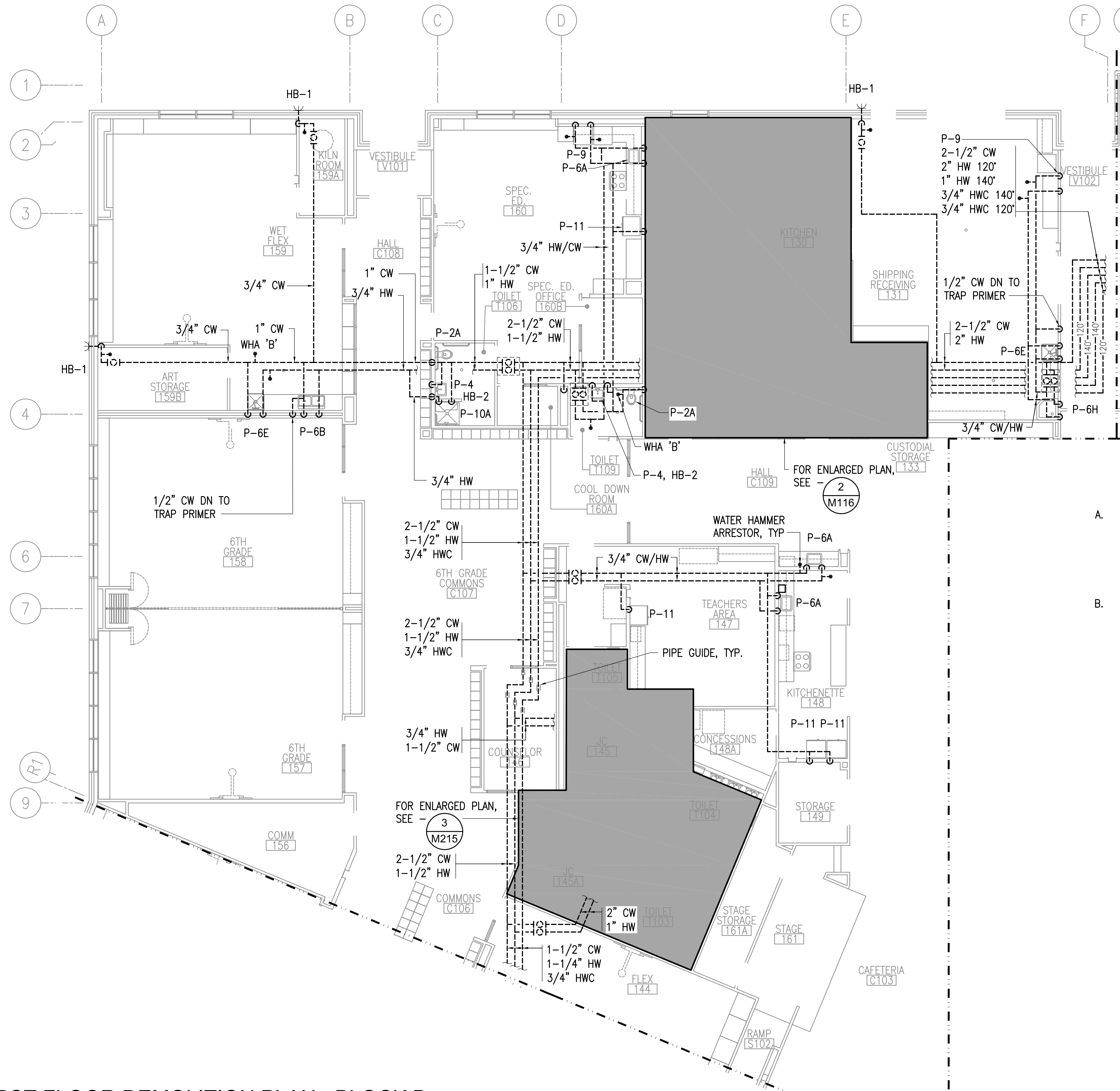
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 DWG FILE: MSERIES

DRAWING TITLE:
 FIRST FLOOR DEMOLITION
 PLAN - BLOCK B

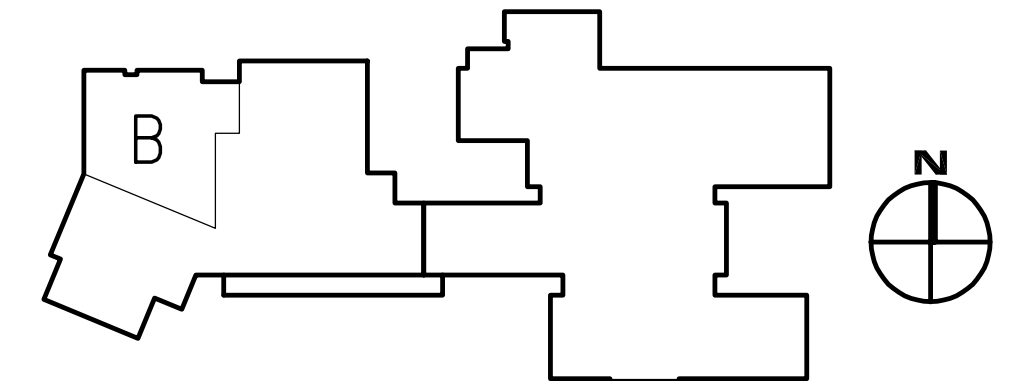
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M112



GENERAL NOTES:

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1 FIRST FLOOR DEMOLITION PLAN - BLOCK B
 1/8" = 1'-0"





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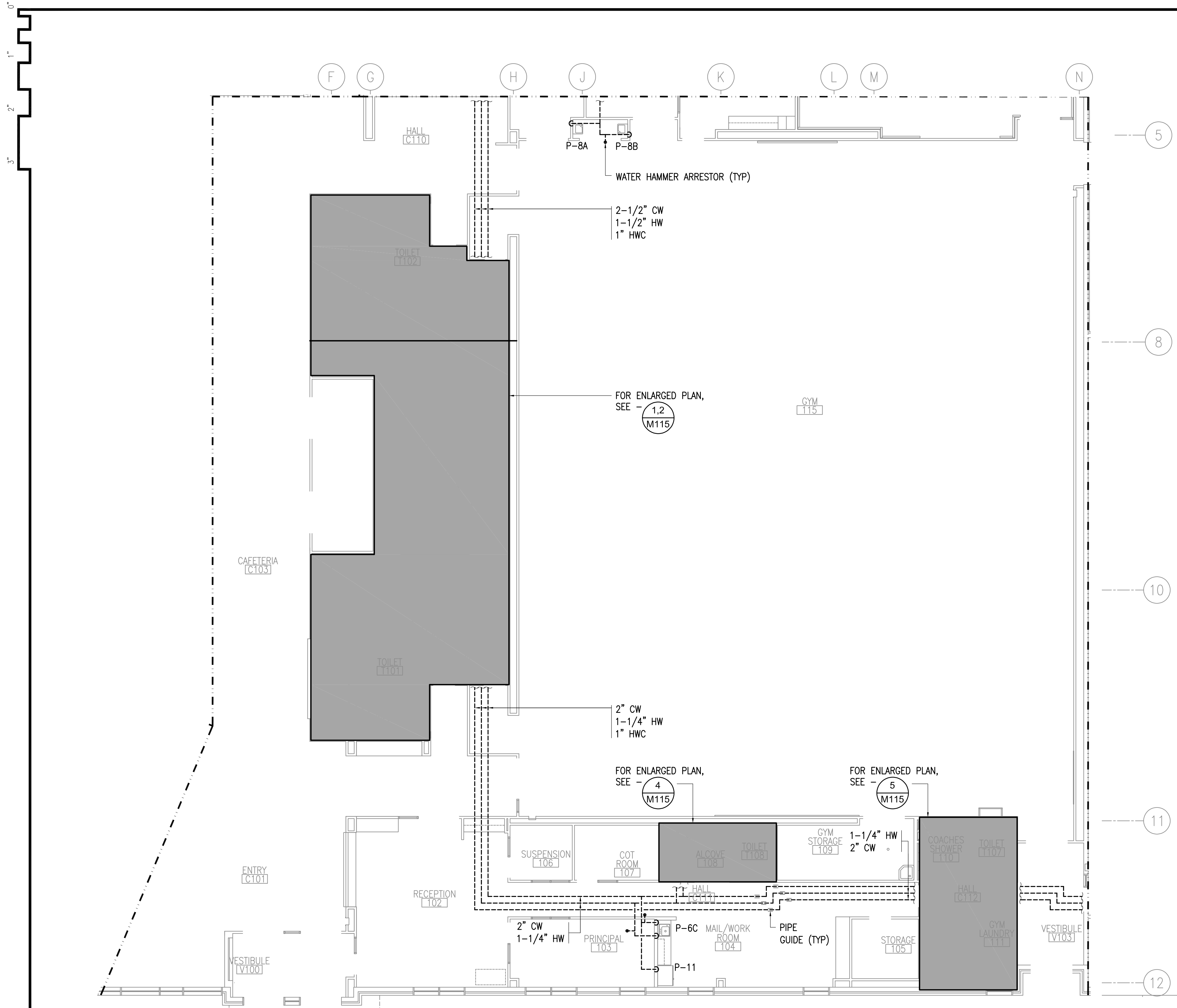
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DRAWING TITLE:
 FIRST FLOOR DEMOLITION
 PLAN - BLOCK C

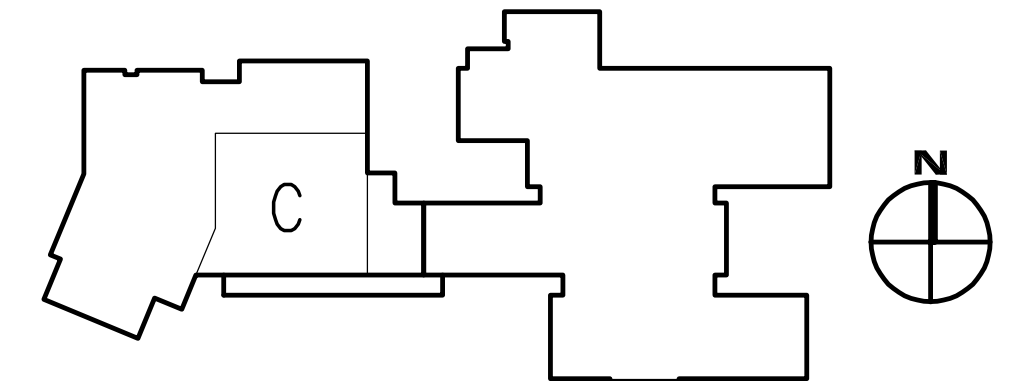
SHEET:
M113



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1 FIRST FLOOR PLUMBING PLAN - BLOCK C
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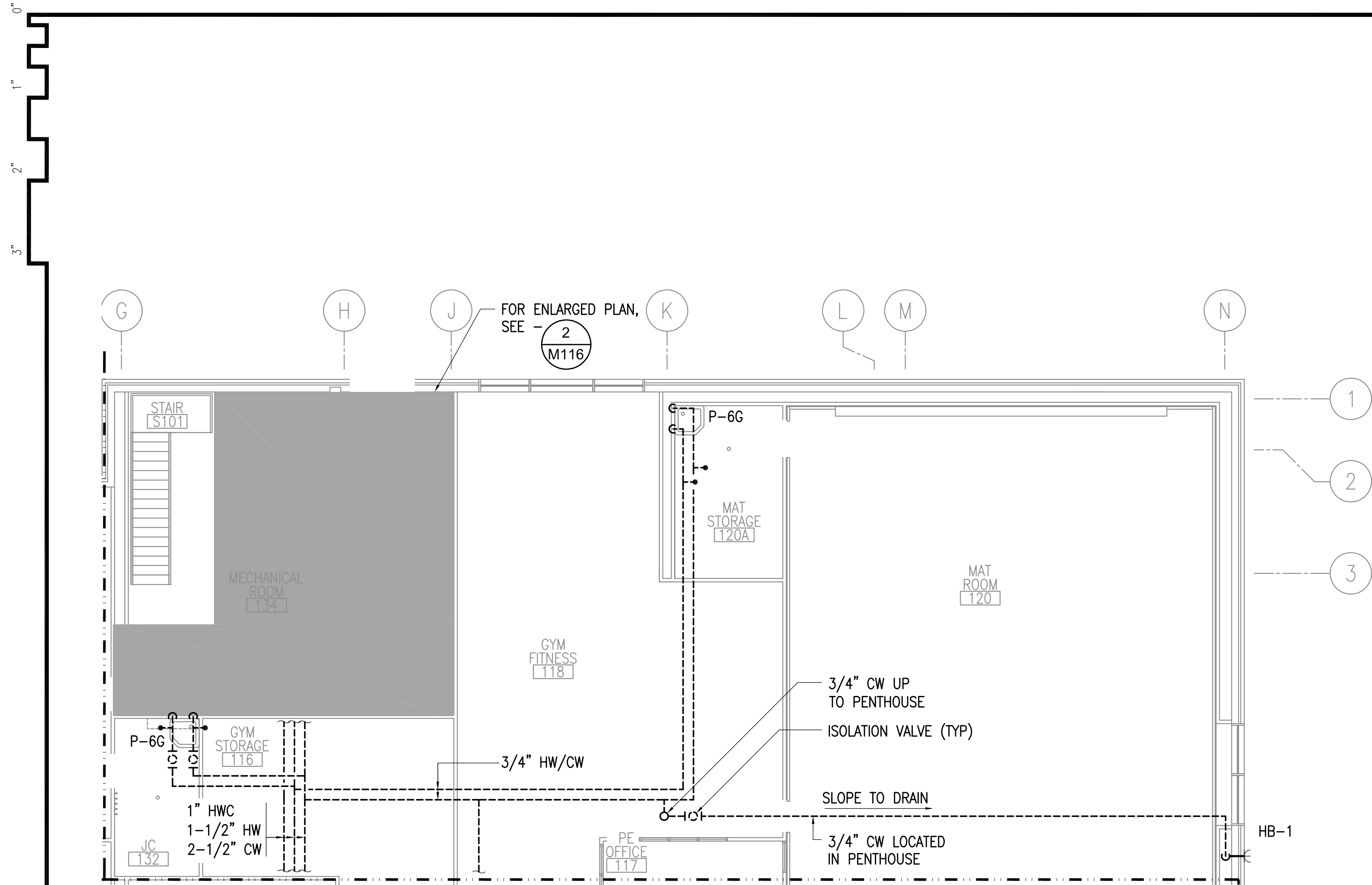
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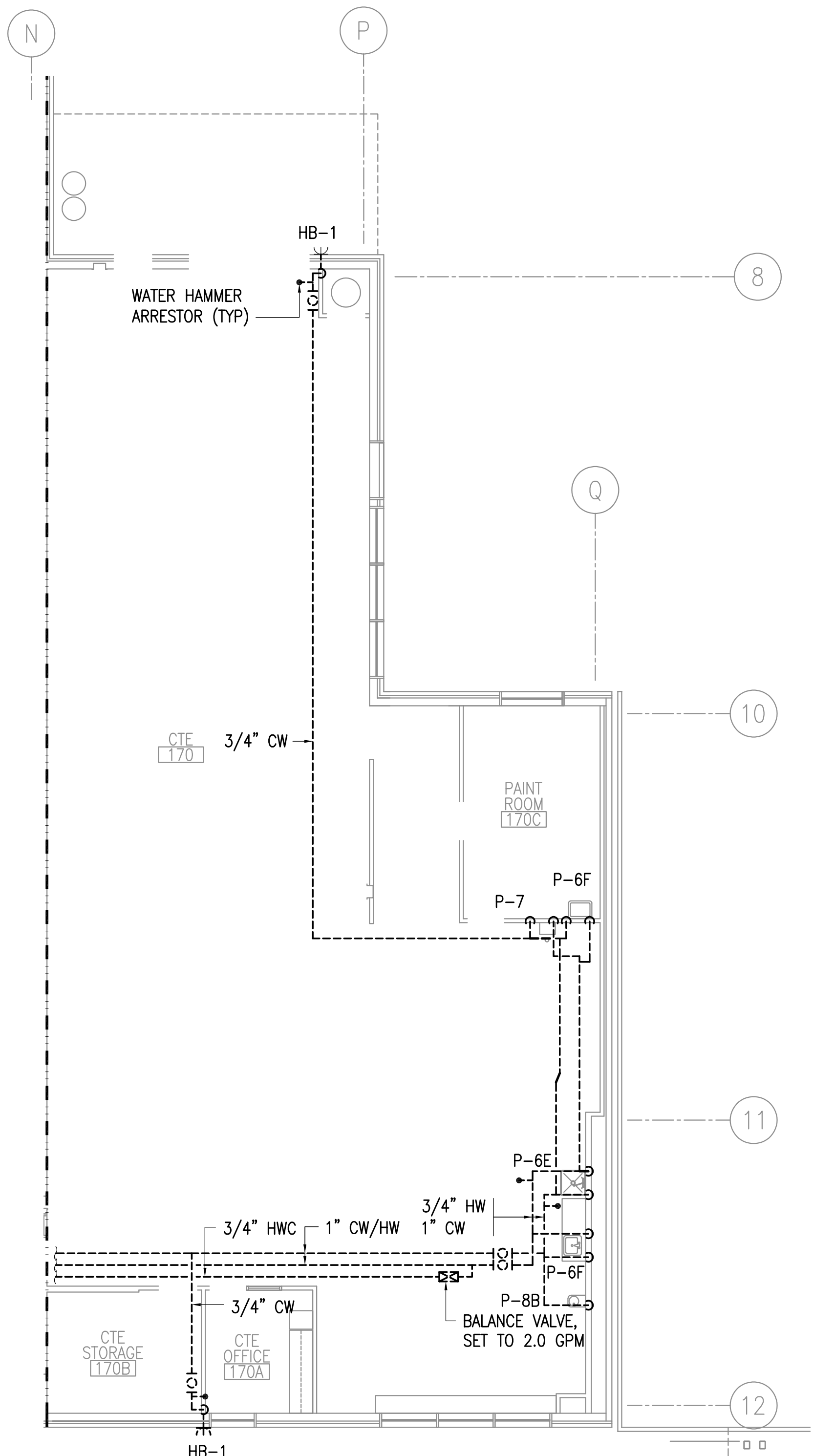
DRAWING TITLE:
 FIRST FLOOR DEMOLITION
 PLANS - BLOCKS D AND E

SHEET:
M114

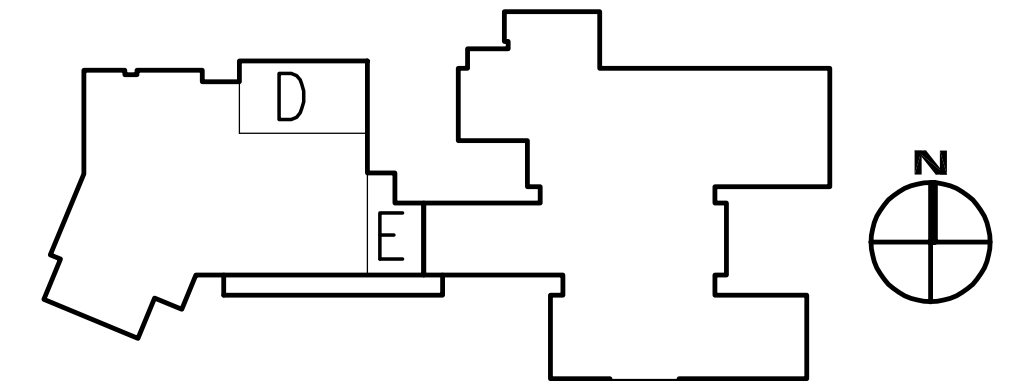


1 FIRST FLOOR DEMOLITION PLAN - BLOCK D
 1/8" = 1'-0"

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 - B. ALL PLUMBING FIXTURES TO BE REMOVED AND RE-INSTALLED AS REQUIRED FOR NEW PIPING INSTALLATION. DEMOLISH ANGLE STOPS ON PLUMBING FIXTURES.



2 FIRST FLOOR DEMOLITION PLAN - BLOCK E
 1/8" = 1'-0"



GENERAL NOTES:

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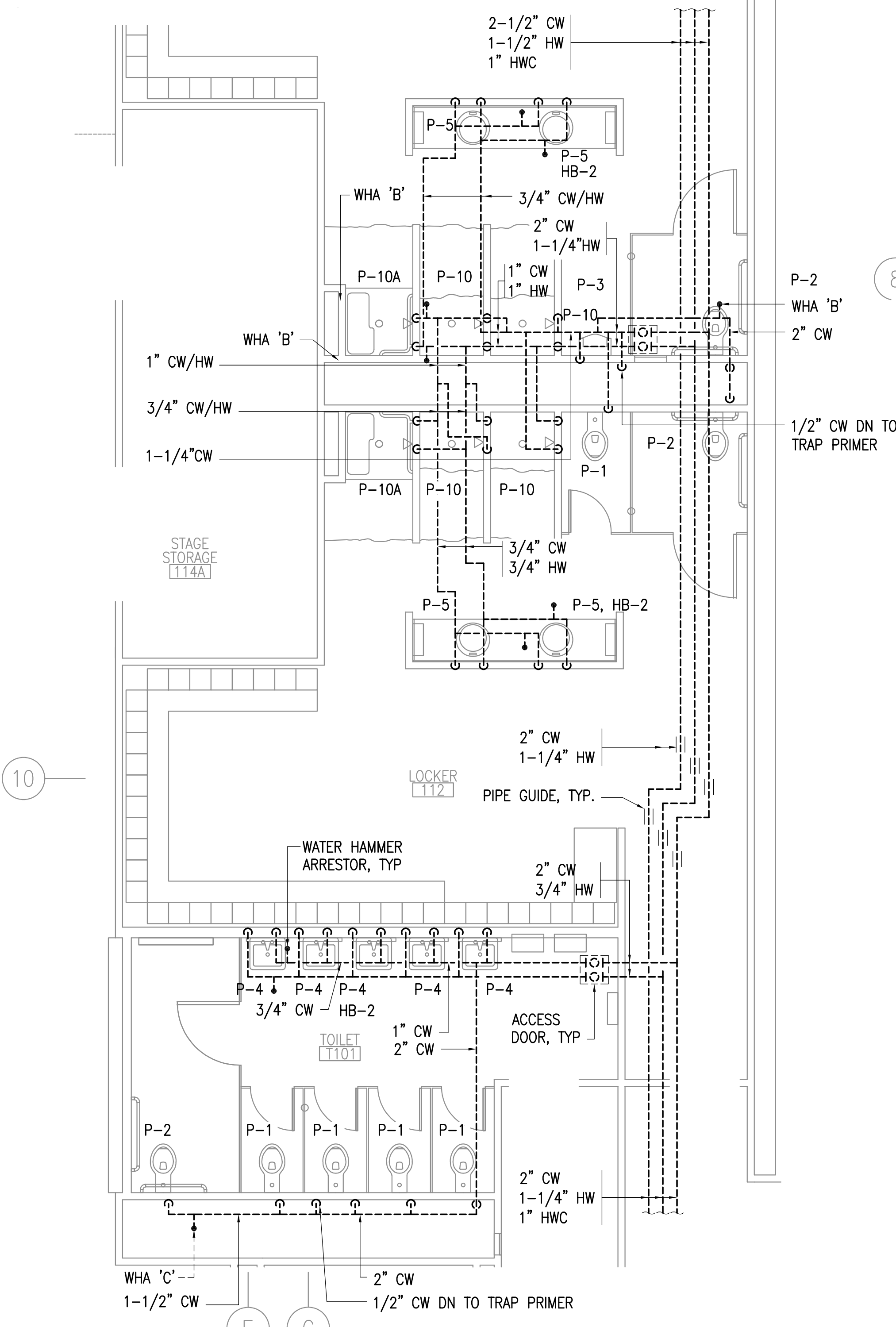
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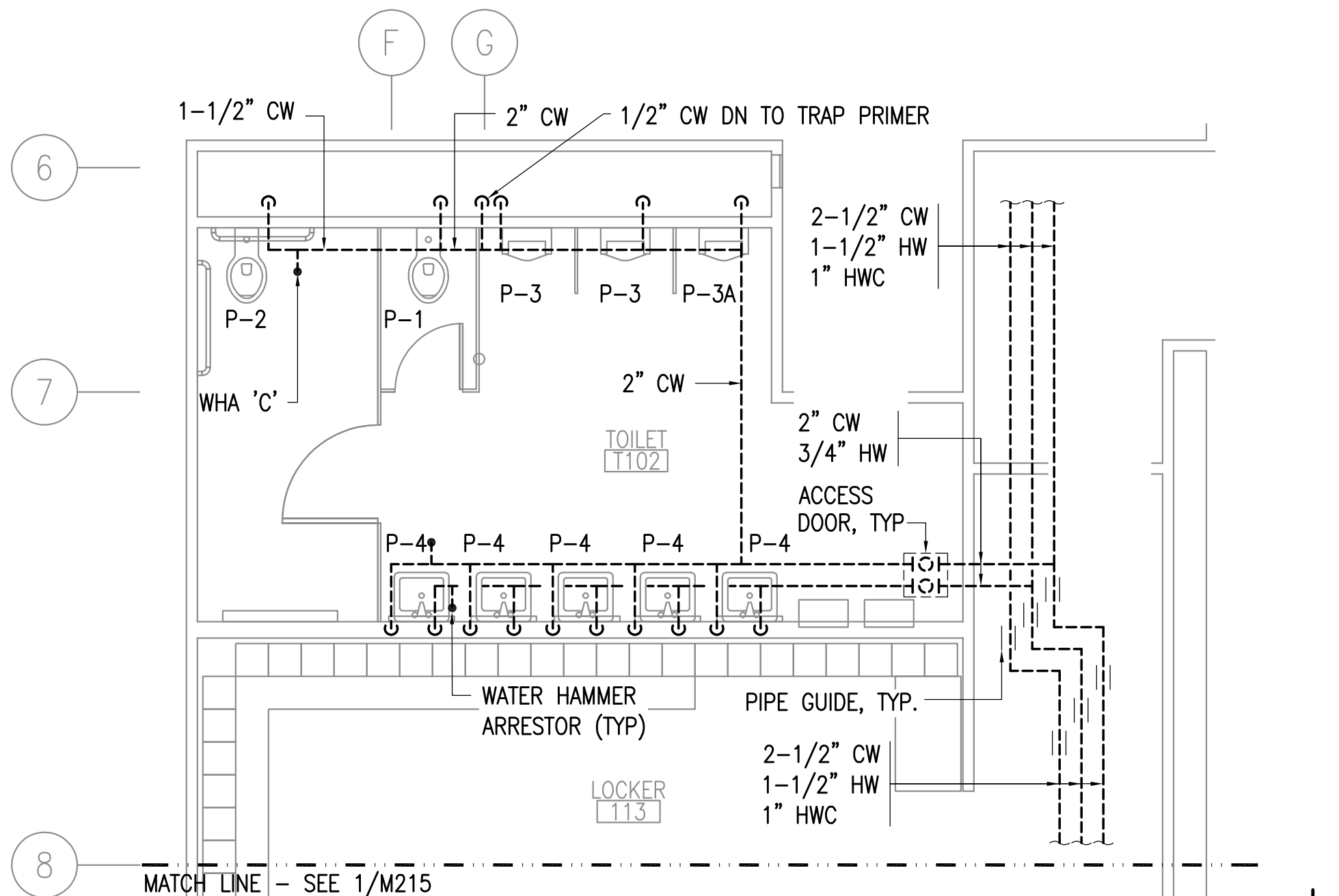
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DRAWING TITLE:
 ENLARGED ABOVE FLOOR
 DEMOLITION PLANS

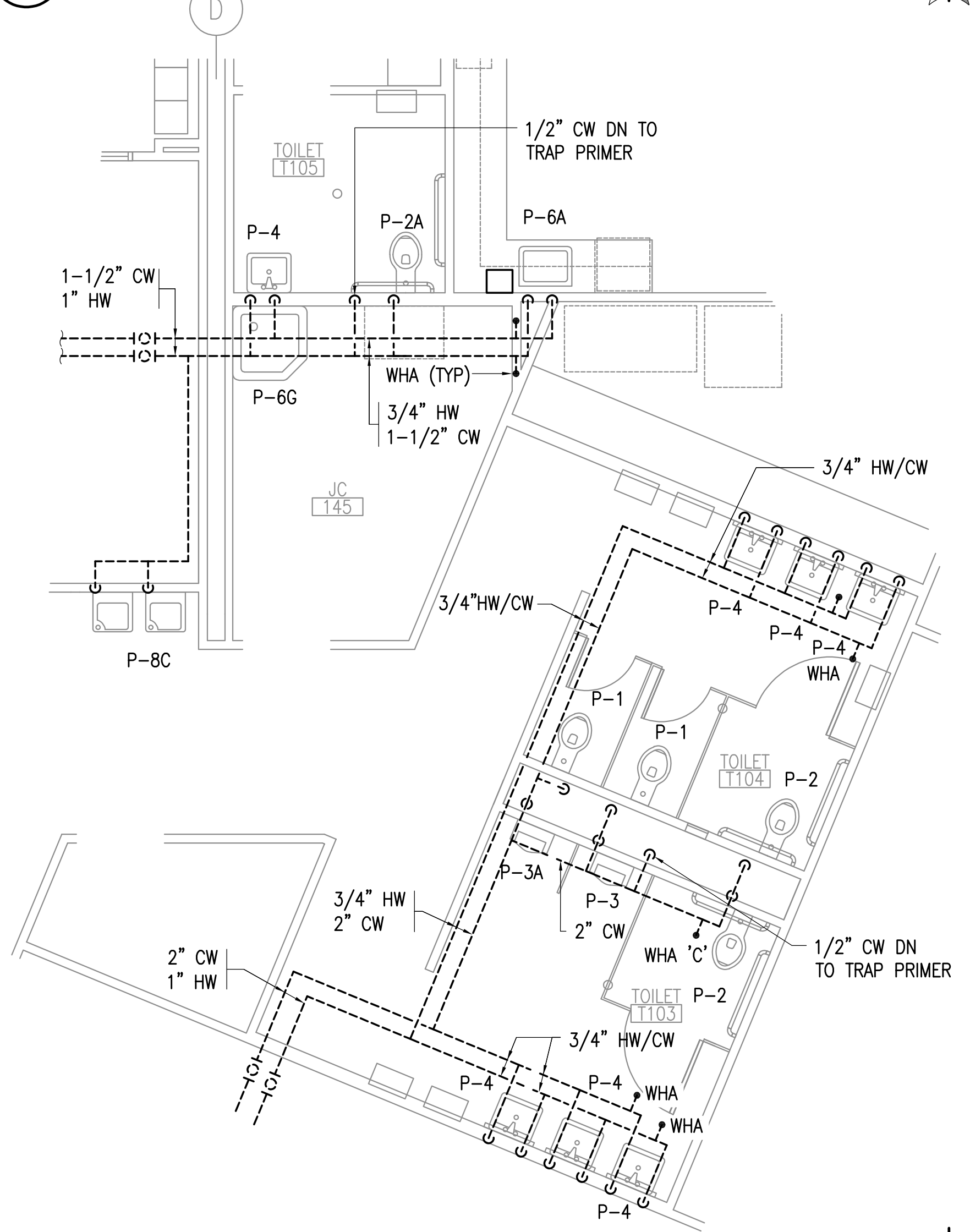
SHEET:
M115



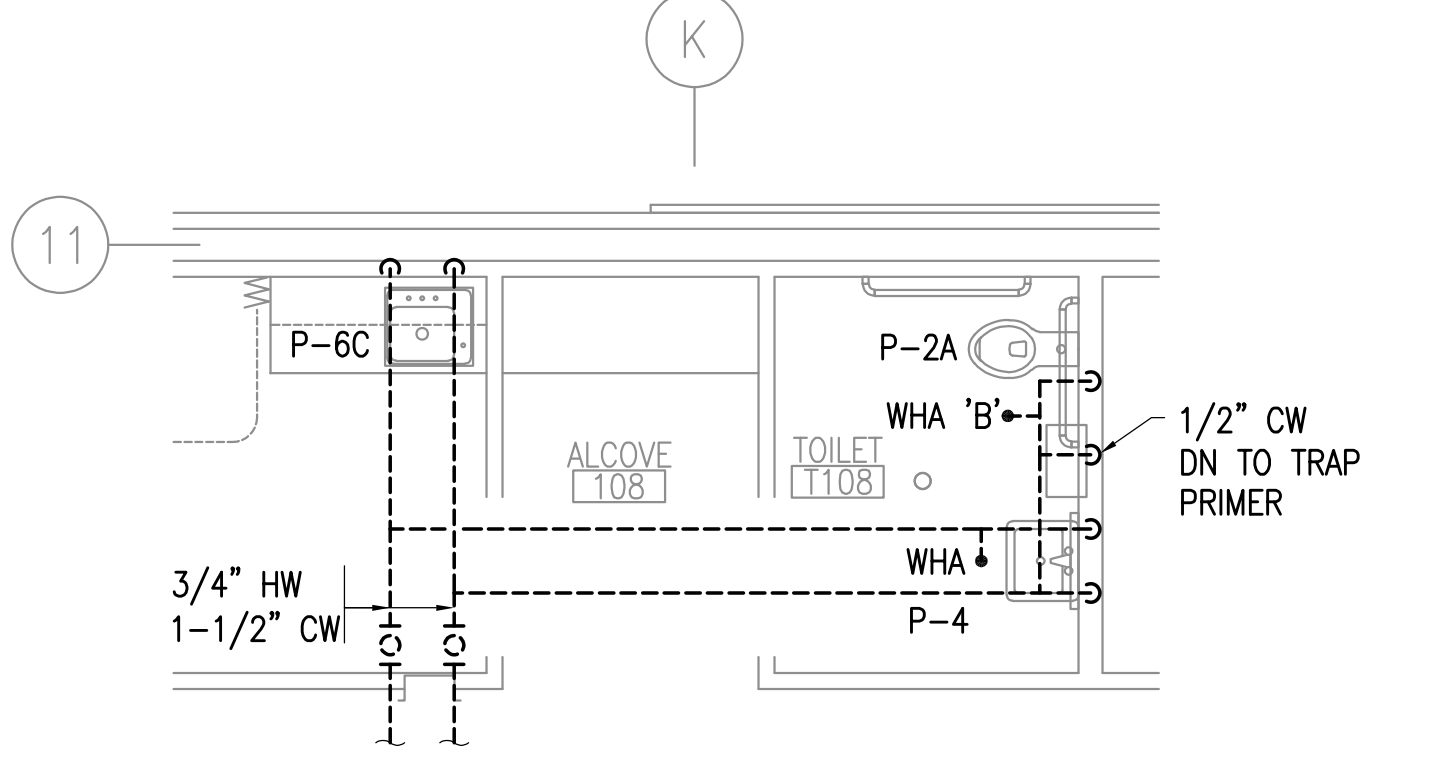
1 ENLARGED DEMOLITION - T101, T12 & T13
 1/4" = 1'-0"



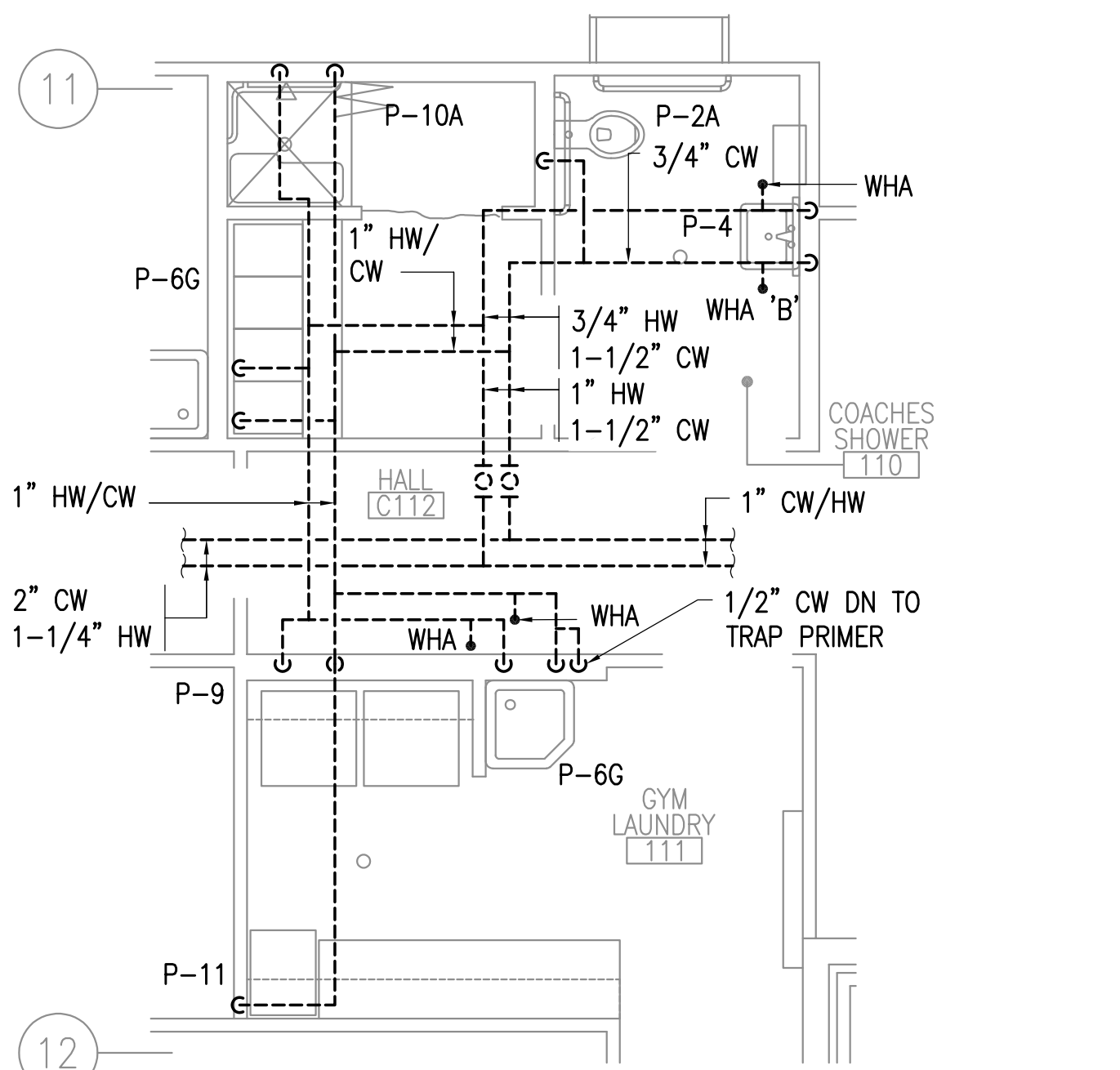
2 ENLARGED DEMOLITION - T102
 1/4" = 1'-0"



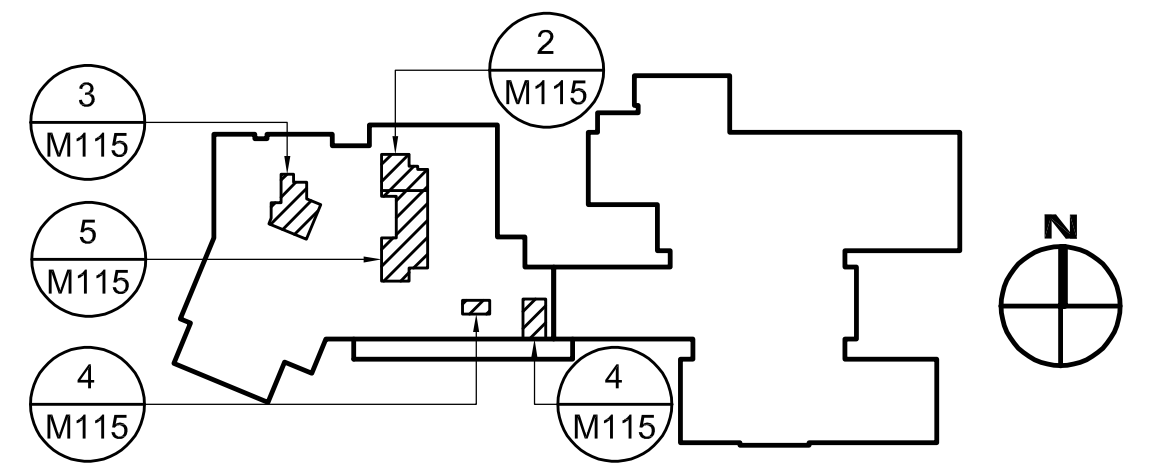
3 ENLARGED DEMOLITION - T103, T104 & T105
 1/4" = 1'-0"



4 ENLARGED DEMOLITION - T108
 1/4" = 1'-0"



5 ENLARGED DEMOLITION - T110 & T111
 1/4" = 1'-0"





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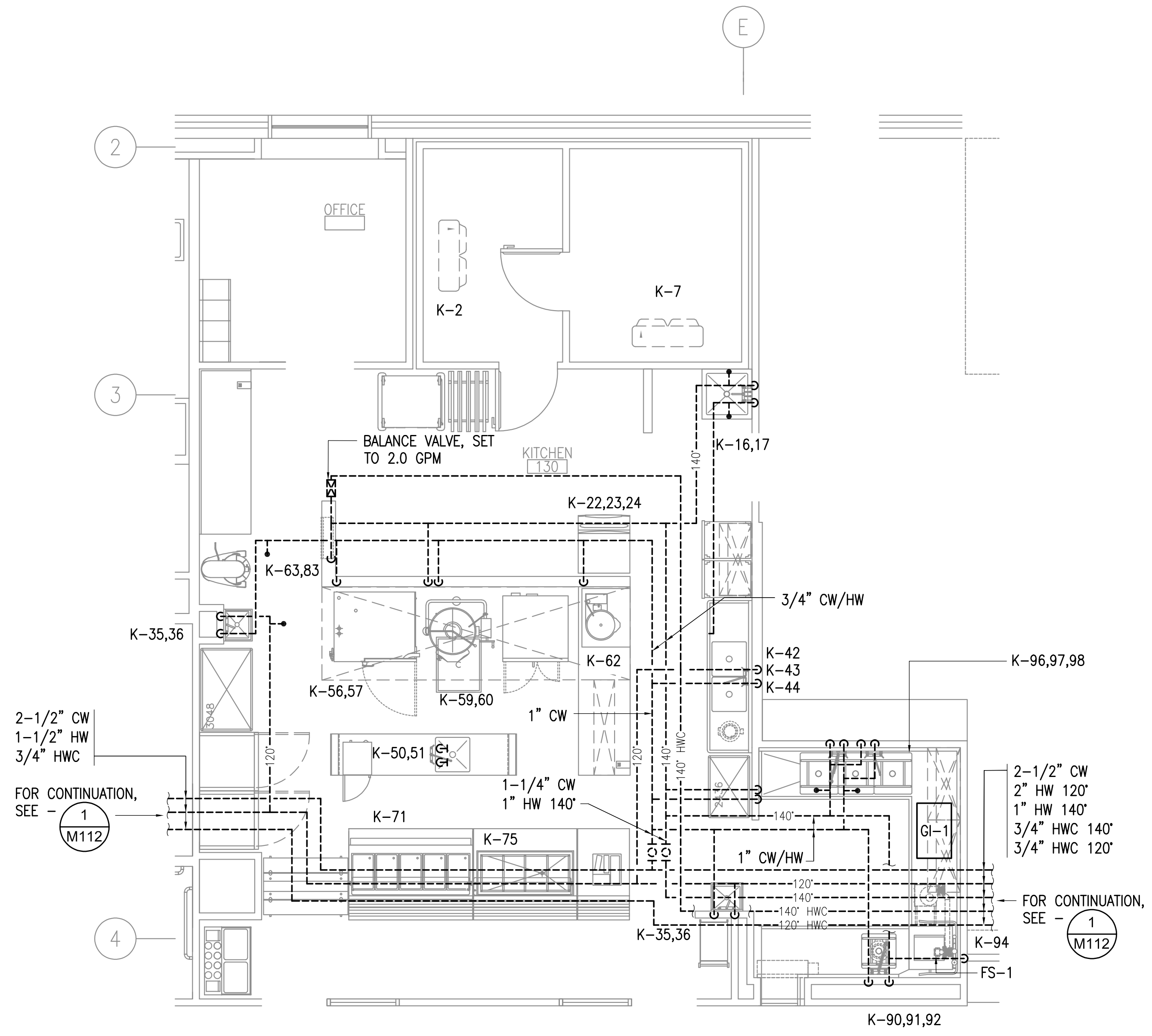
VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
GEORGE H. GILSON MIDDLE SCHOOL
357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP,AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 ENLARGED KITCHEN
 AND MECHANICAL ROOM
 PIPING DEMOLITION
 PLANS

SHEET:
M116



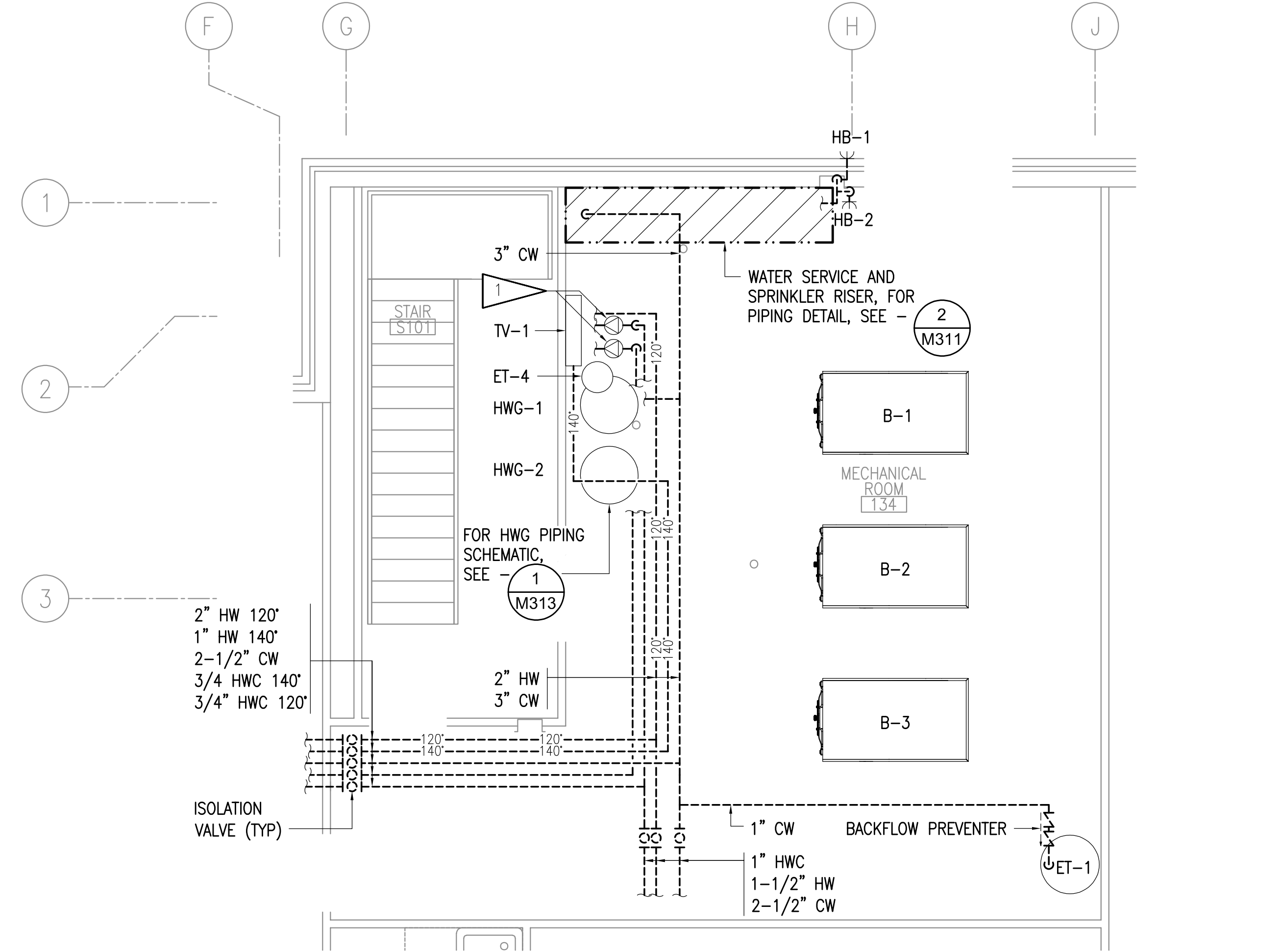
1 ENLARGED KITCHEN PIPING DEMOLITION PLAN
 1/4" = 1'-0"

GENERAL NOTES:

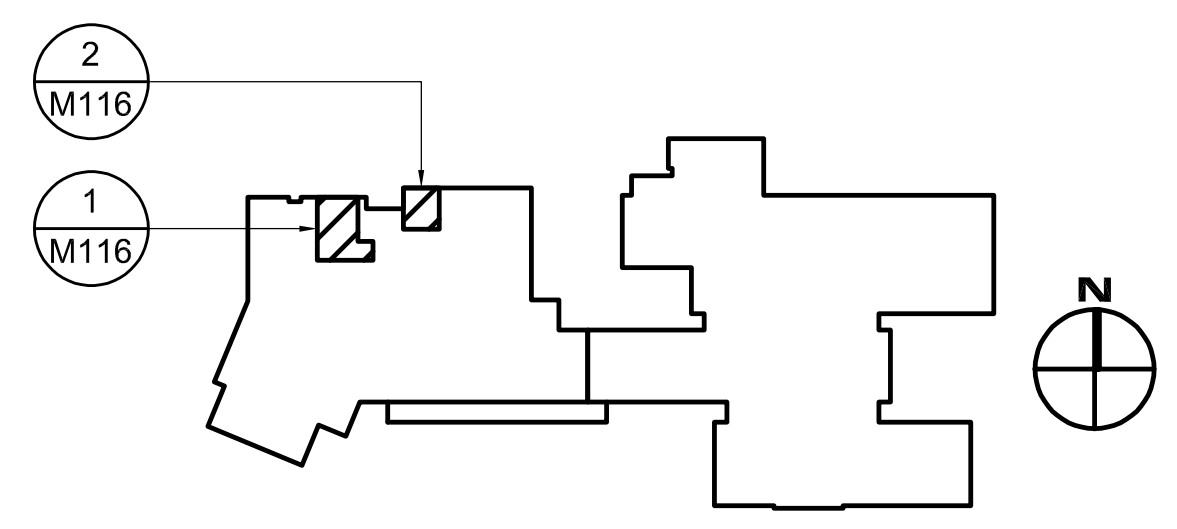
- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. ALL PLUMBING FIXTURES TO BE REMOVED AND RE-INSTALLED AS REQUIRED FOR NEW PIPING INSTALLATION. DEMOLISH ANGLE STOPS ON PLUMBING FIXTURES.

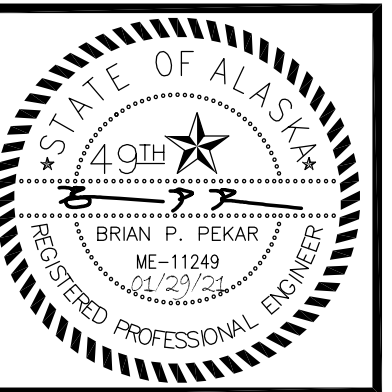
SHEET NOTES:

- 1 REMOVE AND SALVAGE PUMP FOR REINSTALLATION.



2 ENLARGED MECHANICAL ROOM PIPING DEMOLITION PLAN - BLOCK D
 1/4" = 1'-0"





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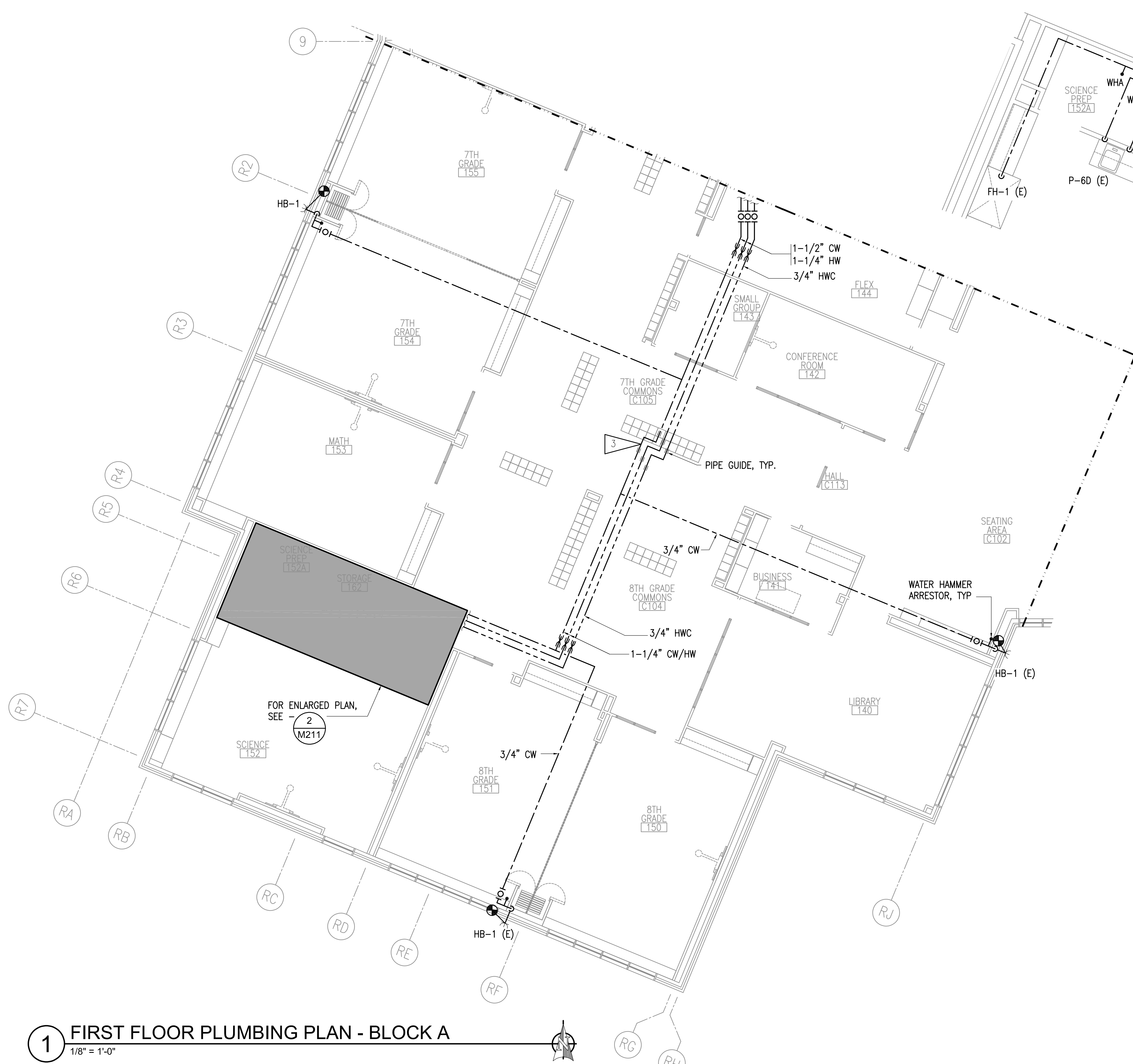
VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
GEORGE H. GILSON MIDDLE SCHOOL
 357 ROBE RIVER DRIVE,
 VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP_AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 FIRST FLOOR PLUMBING
 PLAN - BLOCK A

SHEET:
M211



2 ENLARGED PLUMBING - 152
 1/4" = 1'-0"

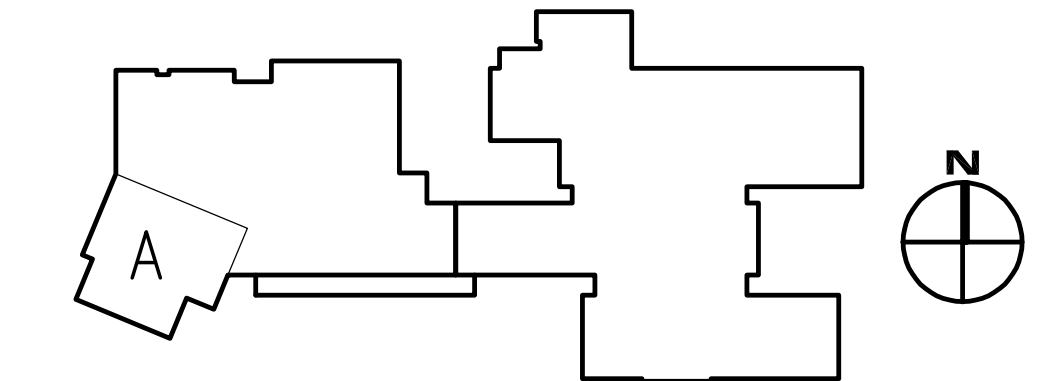
GENERAL NOTES:

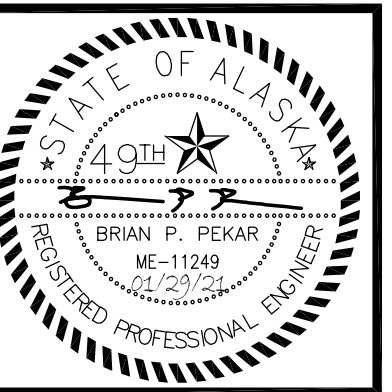
- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
- B. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES IN ACCORDANCE WITH SPECIFICATION SECTION 08 31 13. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW VALVES.
- C. FOR TYPICAL EXTERIOR HOSE BIBB DETAIL, SEE - 3/M312.
- D. PIPE ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY PIPE ROUTING.
- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
- F. REINSTALL EXISTING FIXTURES USING SALVAGED FIXTURE TRIM AND APPURTENANCES TO THE EXTENT POSSIBLE. CONTRACTOR TO REPLACE VALVES AND APPURTENANCES DAMAGED DURING DEMOLITION.
- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.

SHEET NOTES:

- 1 FOR EYEWASH/SHOWER DETAIL, SEE - **2** M312
- 2 FOR BACKFLOW PREVENTION DETAIL, SEE - **4** M311
- 3 OFFSET PIPING 18 INCHES TO ACCOUNT FOR THERMAL EXPANSION. PIPE GUIDE TO BE INSTALLED 9 INCHES FROM ELBOW.

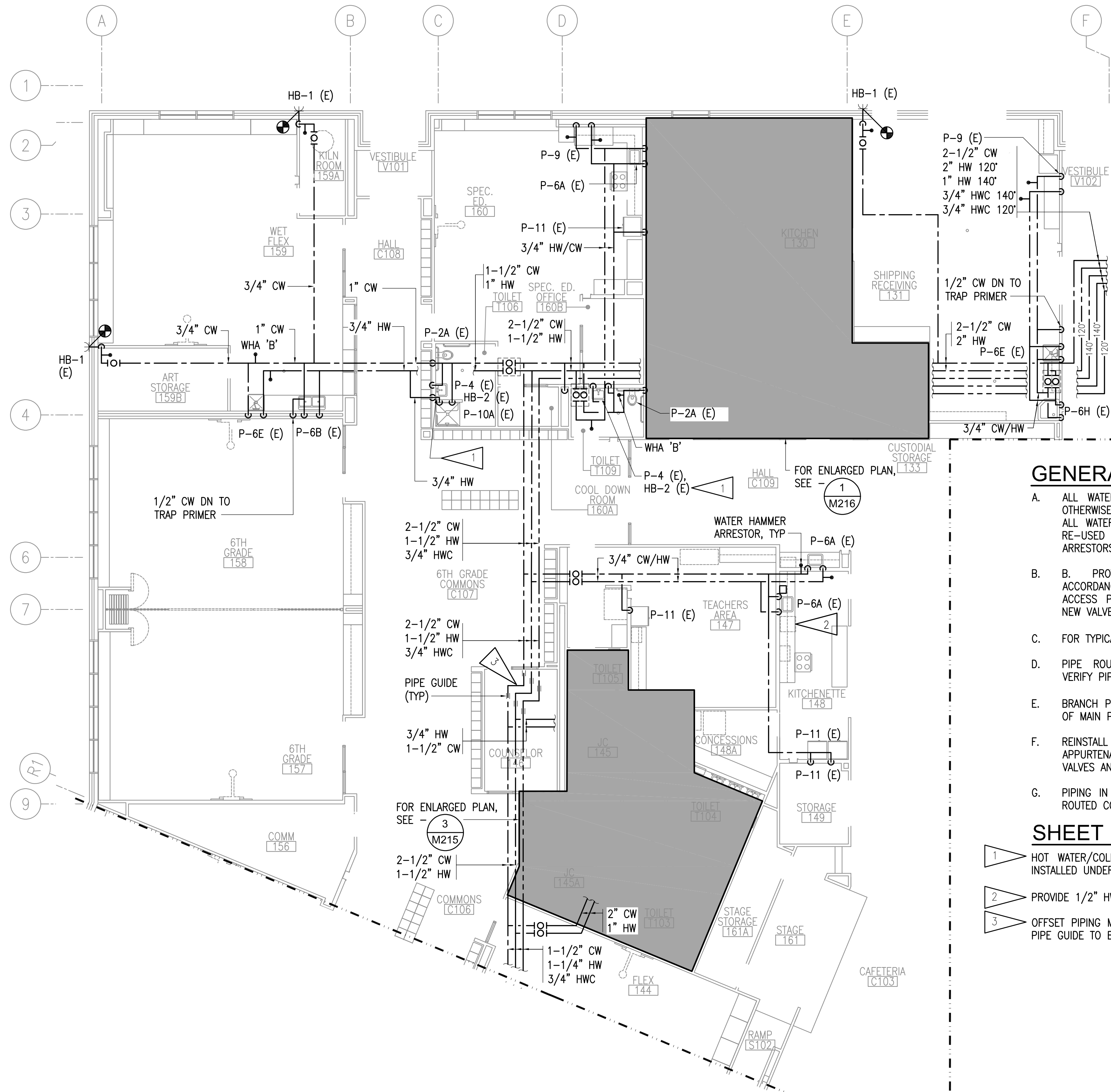
1 FIRST FLOOR PLUMBING PLAN - BLOCK A
 1/8" = 1'-0"





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GEORGE H. GILSON MIDDLE SCHOOL
357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686



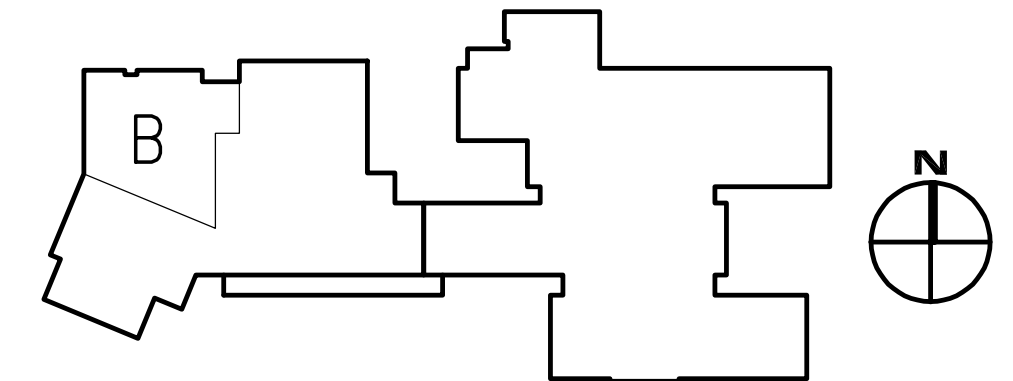
GENERAL NOTES:

- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
- B. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES IN ACCORDANCE WITH SPECIFICATION SECTION 08 31 13. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW VALVES.
- C. FOR TYPICAL EXTERIOR HOSE BIBB DETAIL, SEE - 3/M312.
- D. PIPE ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY PIPE ROUTING.
- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
- F. REINSTALL EXISTING FIXTURES USING SALVAGED FIXTURE TRIM AND APPURTENANCES TO THE EXTENT POSSIBLE. CONTRACTOR TO REPLACE VALVES AND APPURTENANCES DAMAGED DURING DEMOLITION.
- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.

SHEET NOTES:

- 1. HOT WATER/COLD WATER HOSE BIBB, HB-2 (E) WITH LOCKABLE COVER INSTALLED UNDER LAVATORY.
- 2. PROVIDE 1/2" HW TO DISHWASHER P-6A (E).
- 3. OFFSET PIPING MINIMUM 20 INCHES TO ACCOUNT FOR THERMAL EXPANSION. PIPE GUIDE TO BE 10 INCHES FROM ELBOWS.

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

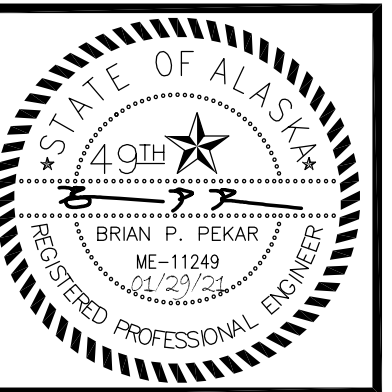


REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP_AJS
 DATE: 01/29/2021
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 DWG FILE: MSERIES

DRAWING TITLE:
 FIRST FLOOR PLUMBING
 PLAN - BLOCK B

SHEET:
M212



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VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
 GEORGE H. GILSON MIDDLE SCHOOL
 357 ROBE RIVER DRIVE,
 VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
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 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 FIRST FLOOR PLUMBING
 PLAN - BLOCK C

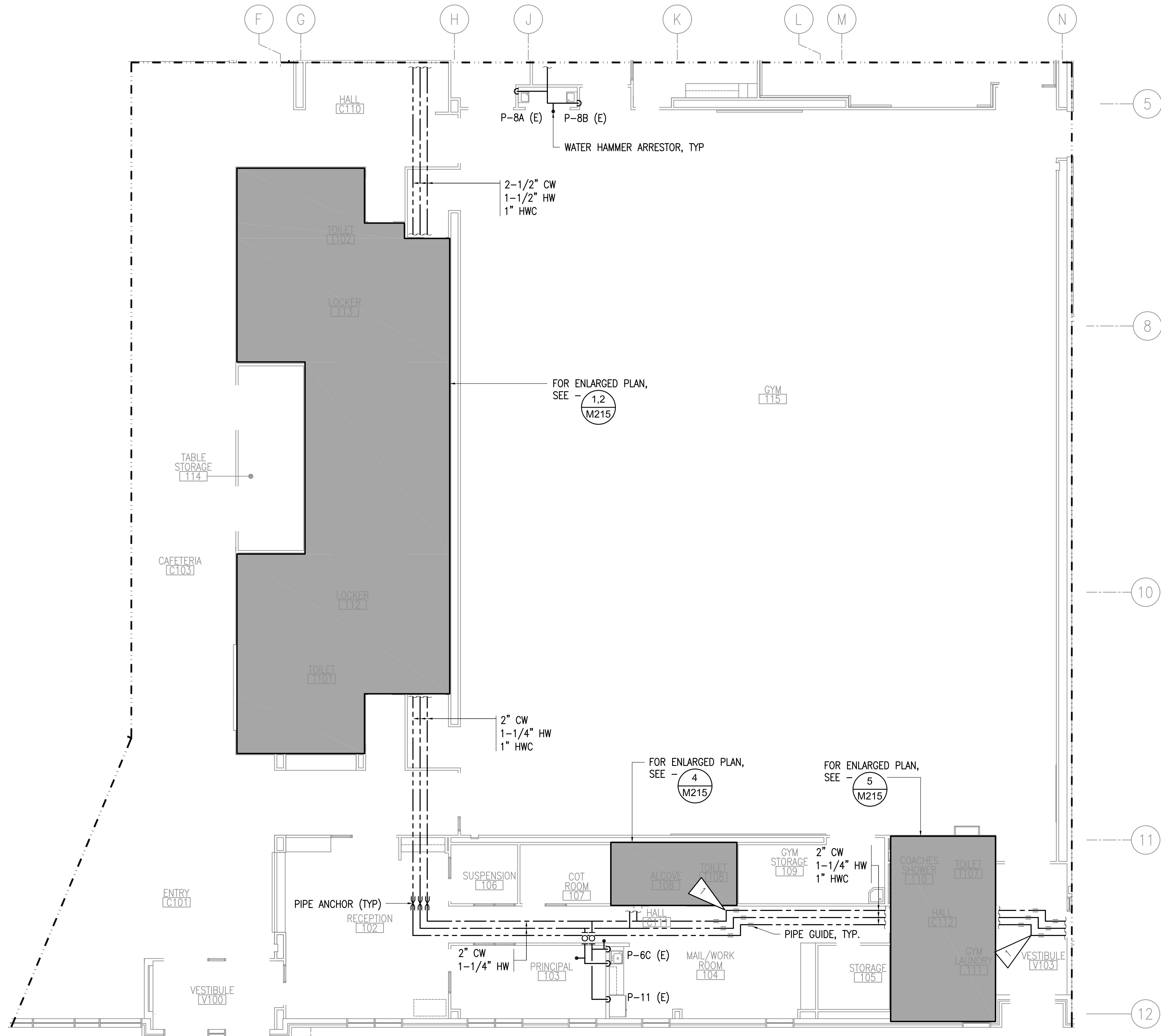
SHEET:
M213

GENERAL NOTES:

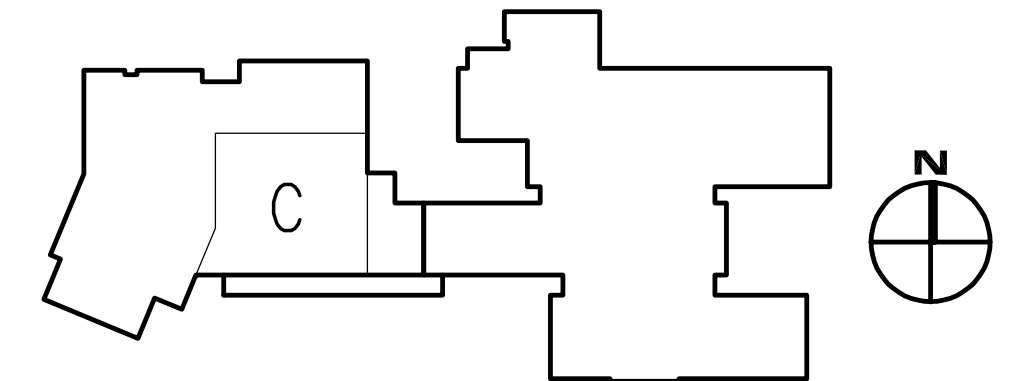
- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
- B. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES IN ACCORDANCE WITH SPECIFICATION SECTION 08 31 13. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW VALVES.
- C. FOR TYPICAL EXTERIOR HOSE BIBB DETAIL, SEE - 3/M312.
- D. PIPE ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY PIPE ROUTING.
- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
- F. REINSTALL EXISTING FIXTURES USING SALVAGED FIXTURE TRIM AND APPURTENANCES TO THE EXTENT POSSIBLE. CONTRACTOR TO REPLACE VALVES AND APPURTENANCES DAMAGED DURING DEMOLITION.
- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.

SHEET NOTES:

- 1. OFFSET PIPING MINIMUM 22 INCHES TO ACCOUNT FOR THERMAL EXPANSION. PIPE GUIDE TO BE 11 INCHES, FROM ELBOWS.



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





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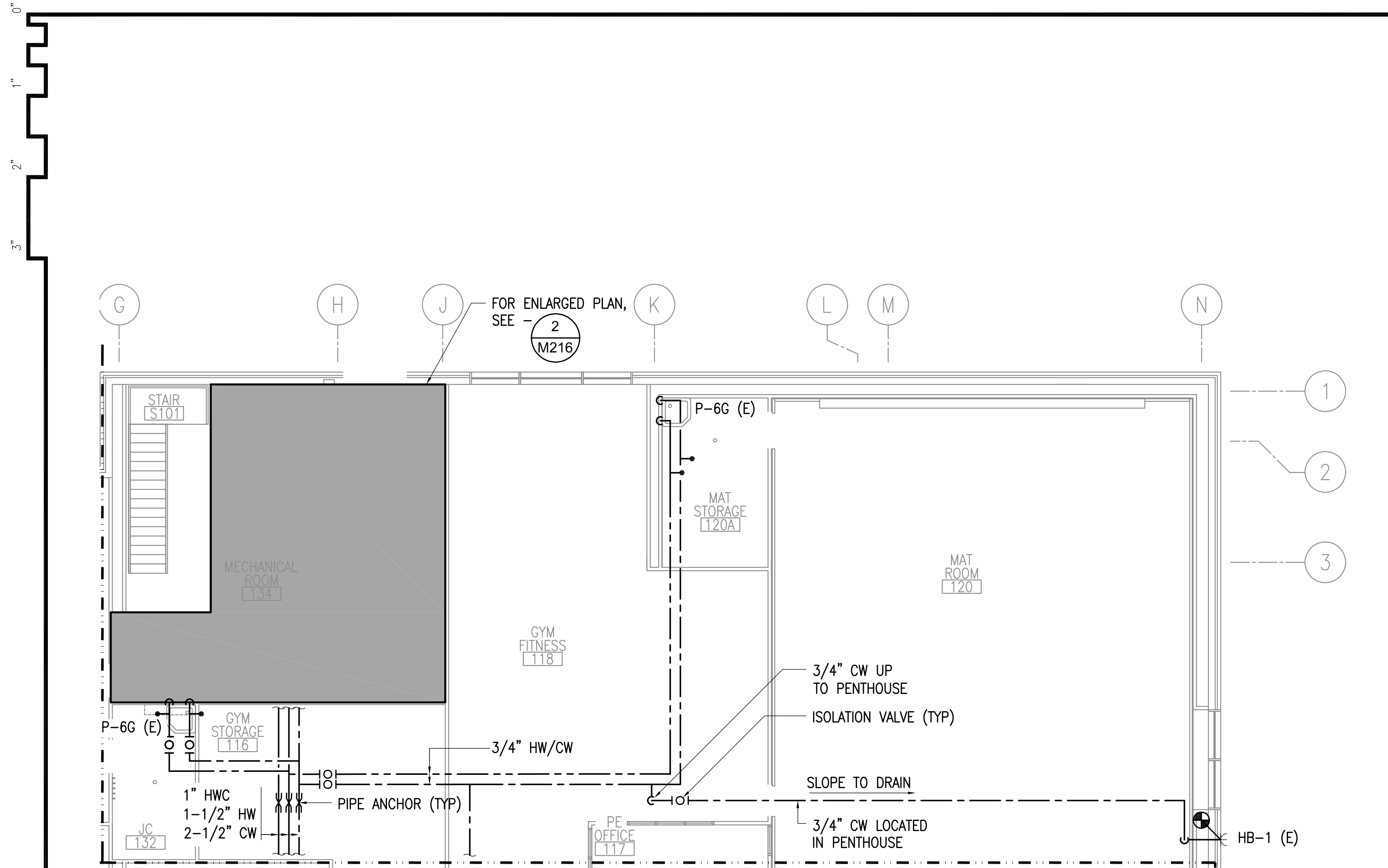
VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
GEORGE H. GILSON MIDDLE SCHOOL
 357 ROBE RIVER DRIVE,
 VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP,AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 FIRST FLOOR PLUMBING
 PLANS - BLOCK D AND E

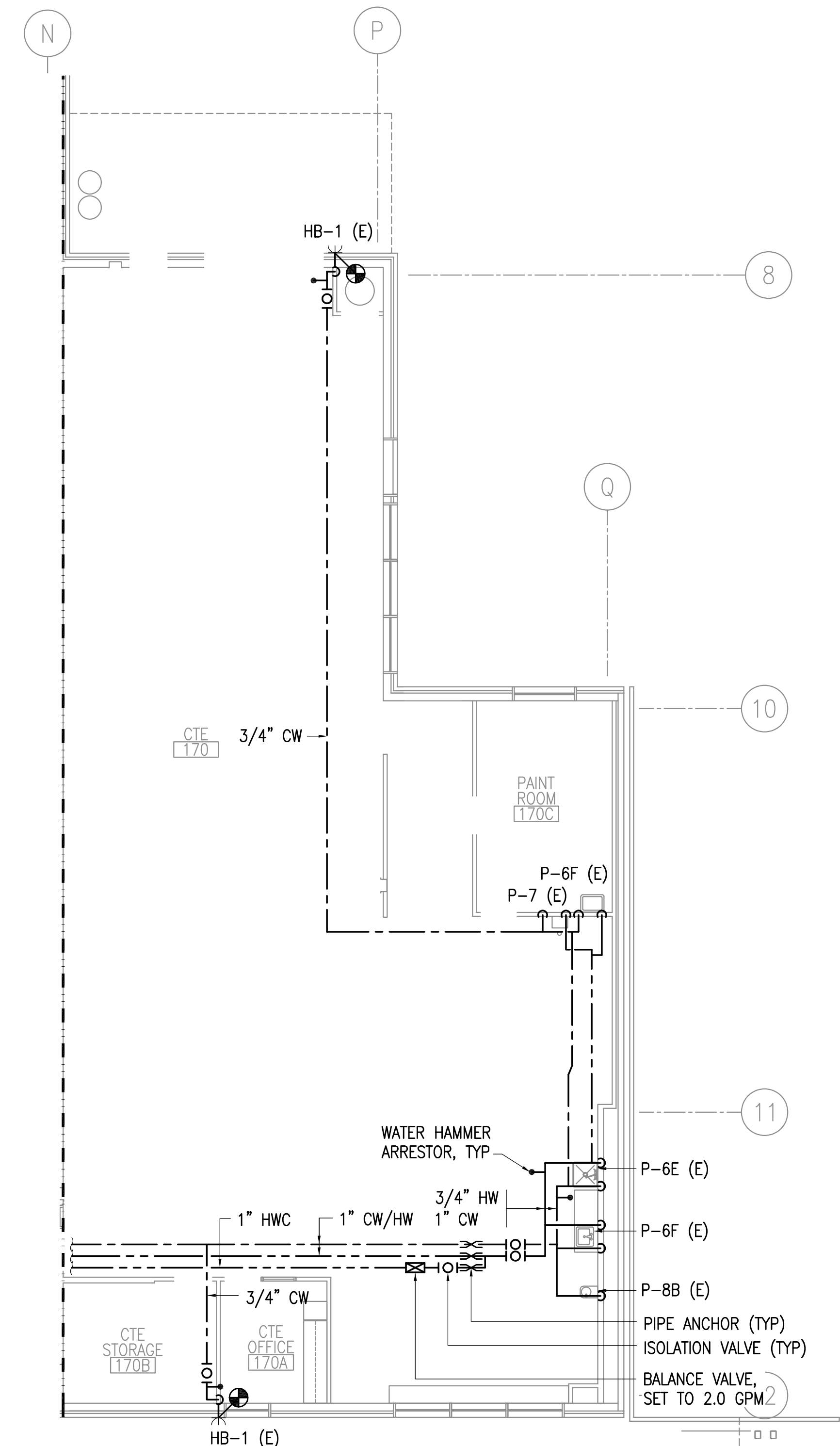
SHEET:
M214



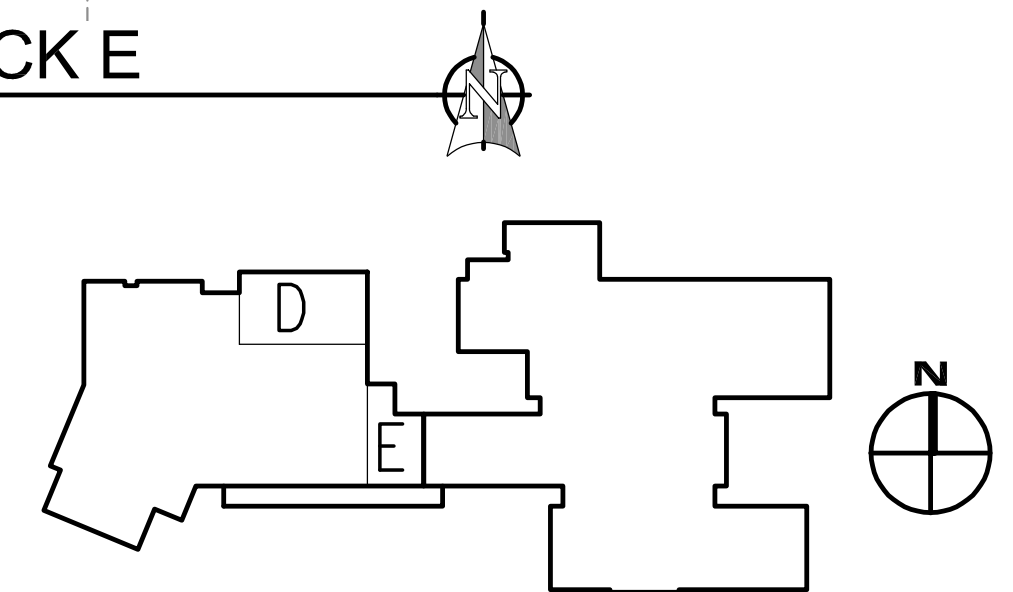
1 FIRST FLOOR PLUMBING PLAN - BLOCK D
 1/8" = 1'-0"

GENERAL NOTES:

- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
- B. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES IN ACCORDANCE WITH SPECIFICATION SECTION 08 31 13. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW VALVES.
- C. FOR TYPICAL EXTERIOR HOSE BIBB DETAIL, SEE - 3/M312.
- D. PIPE ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY PIPE ROUTING.
- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
- F. REINSTALL EXISTING FIXTURES USING SALVAGED FIXTURE TRIM AND APPURTENANCES TO THE EXTENT POSSIBLE. CONTRACTOR TO REPLACE VALVES AND APPURTENANCES DAMAGED DURING DEMOLITION.
- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.

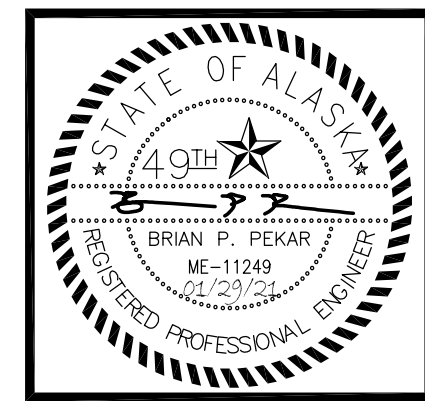


2 FIRST FLOOR PLUMBING PLAN - BLOCK E
 1/8" = 1'-0"



GENERAL NOTES:

- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
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- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
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- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.



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357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686

REVISIONS:

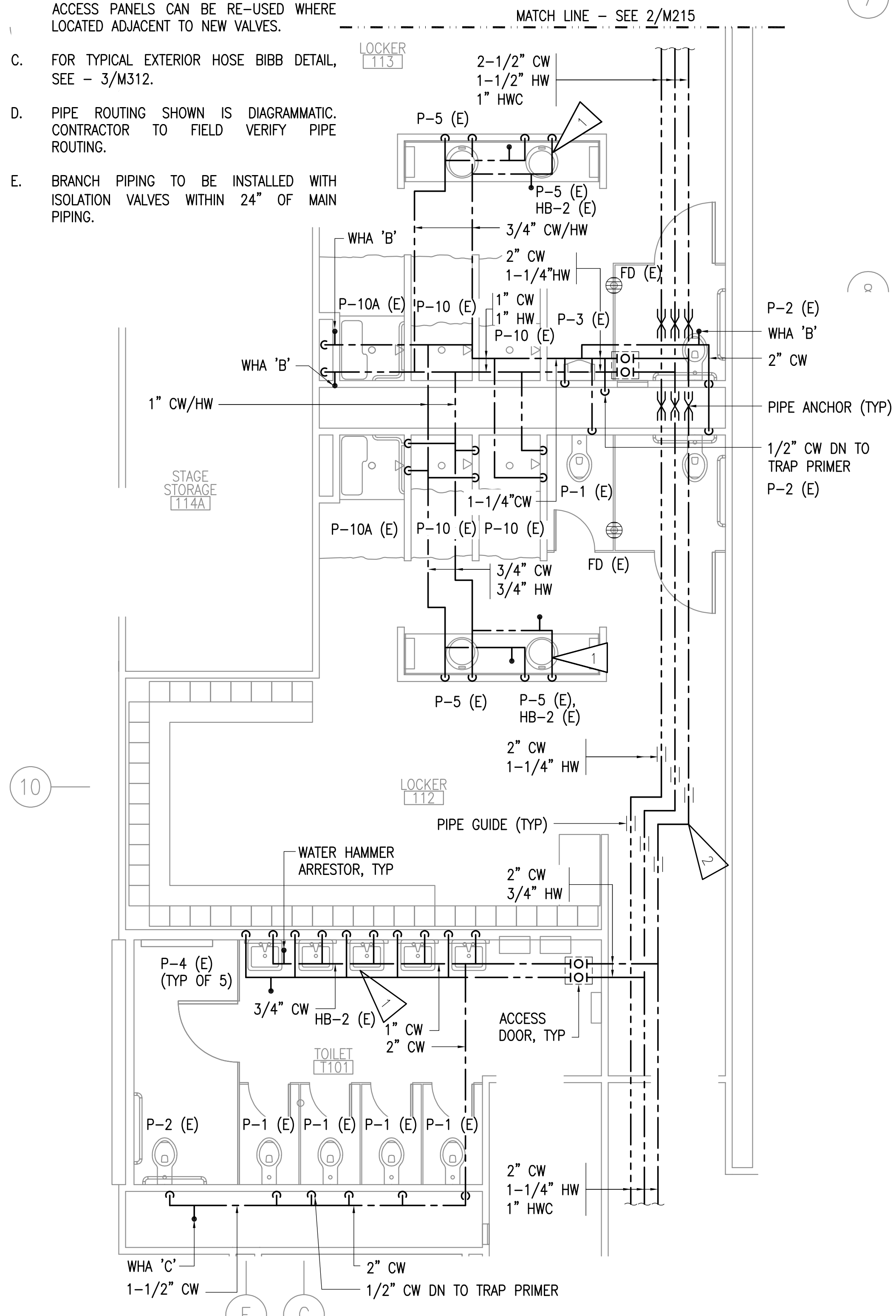
DRAWN BY: CAA
 CHECKED BY: BPP/AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 ENLARGED ABOVE
 FLOOR PLUMBING PLANS

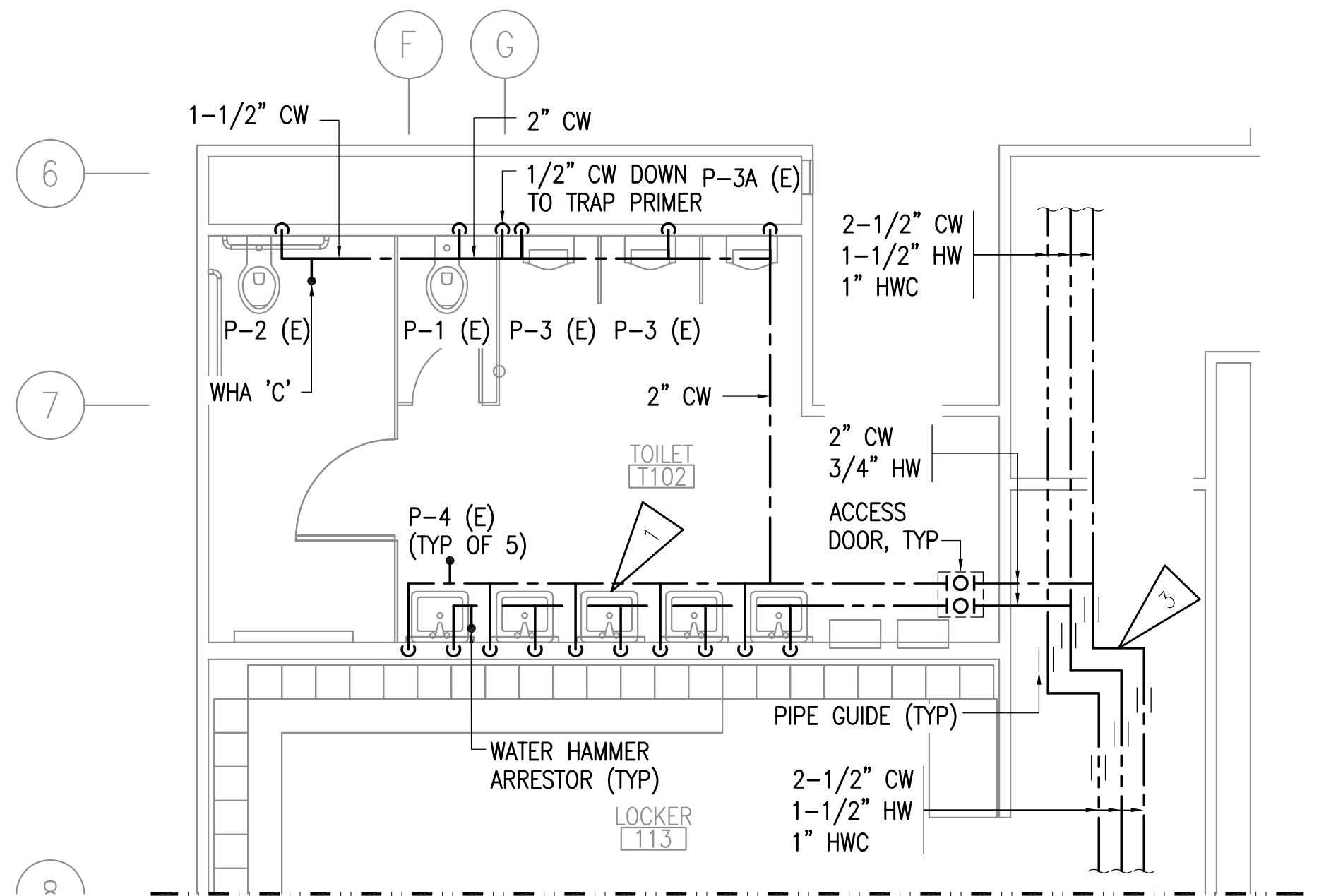
SHEET:
M215

SHEET NOTES:

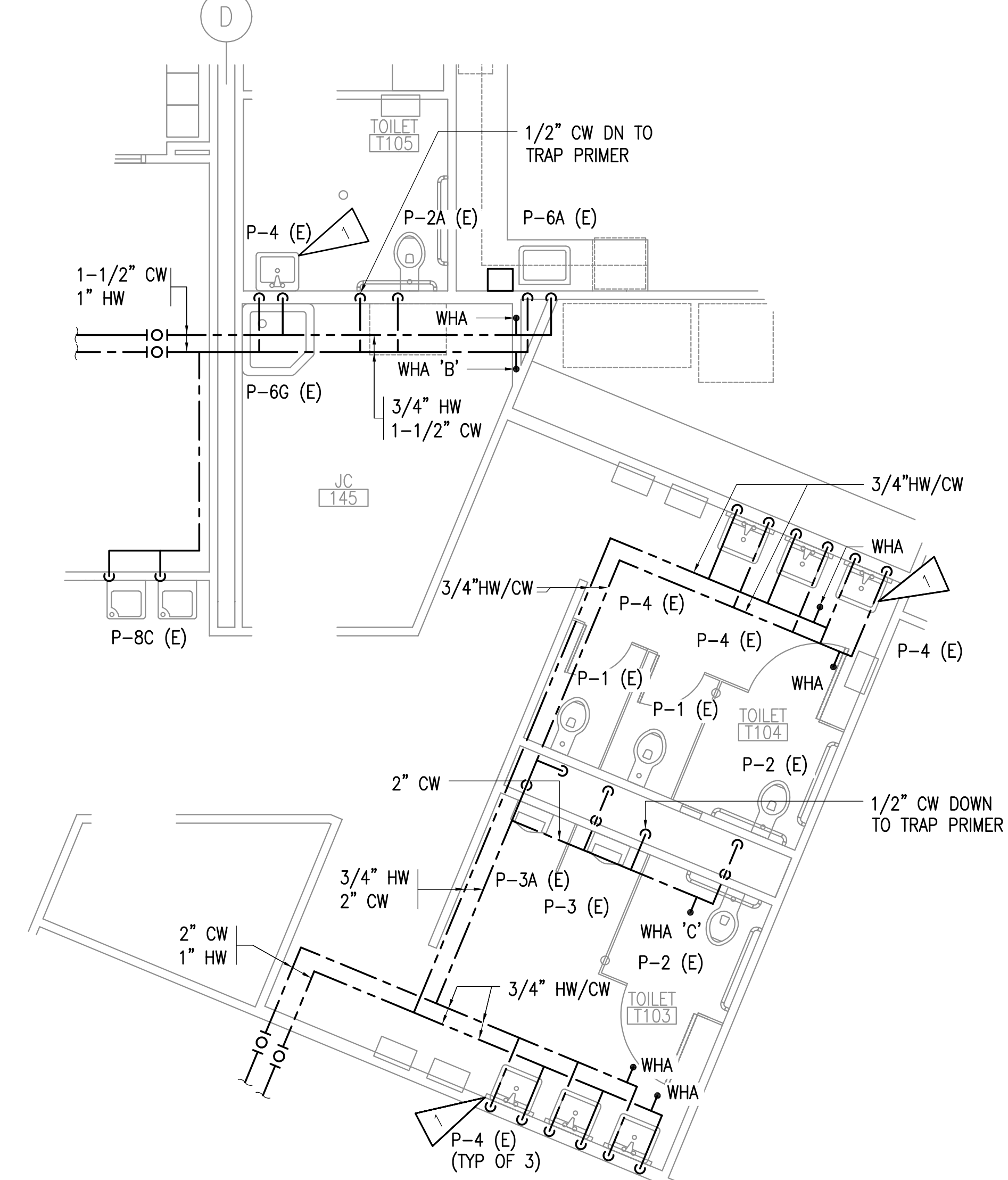
- 1. HOT WATER/COLD WATER HOSE BIBB WITH LOCKABLE COVER INSTALLED UNDER LAVATORY.
- 2. OFFSET PIPING MINIMUM 18 INCHES TO ACCOUNT FOR THERMAL EXPANSION. PIPE GUIDE TO BE 9 INCHES, FROM ELBOWS.
- 3. OFFSET PIPING MINIMUM 12 INCHES TO ACCOUNT FOR THERMAL EXPANSION. PIPE GUIDE TO BE 6 INCHES, FROM ELBOWS.



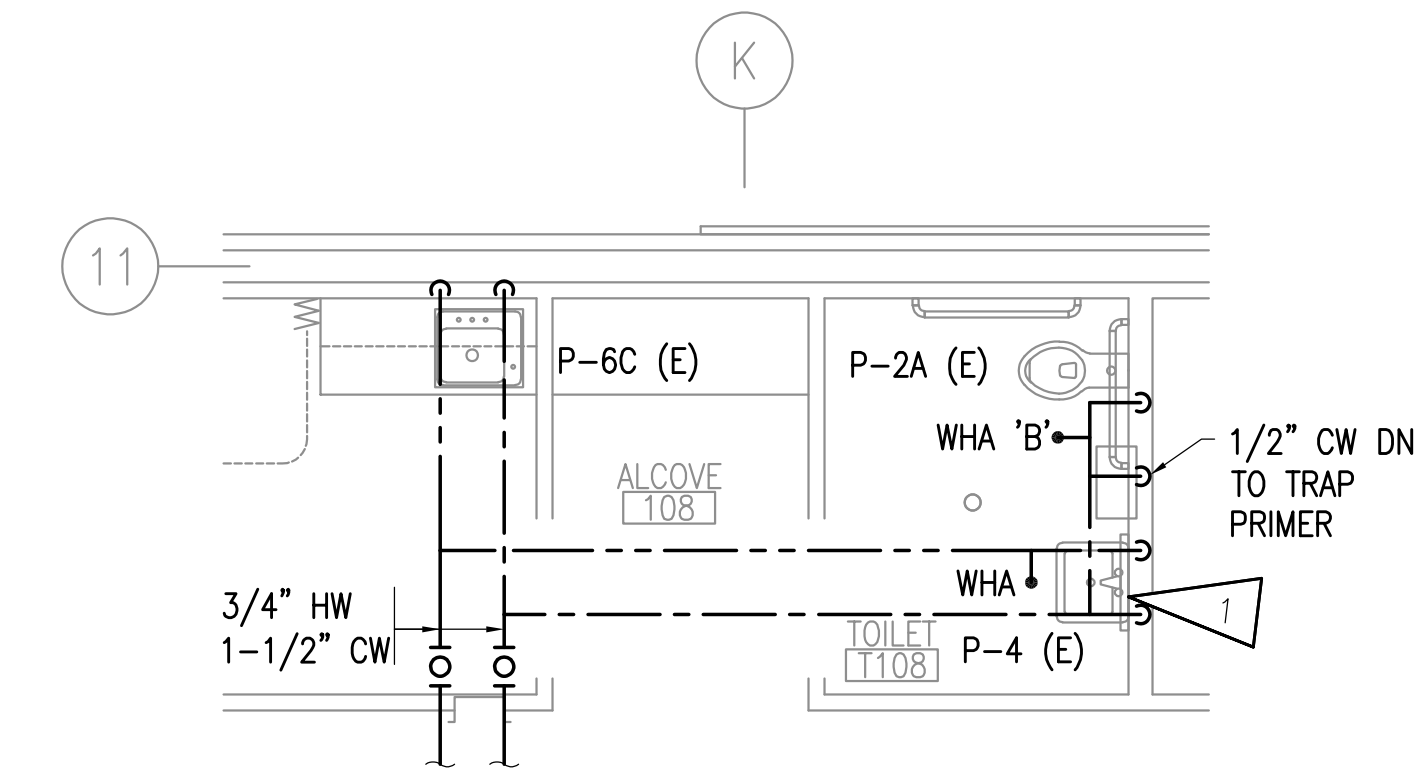
1 ENLARGED PLUMBING - T101, 112 & 113
 1/4" = 1'-0"



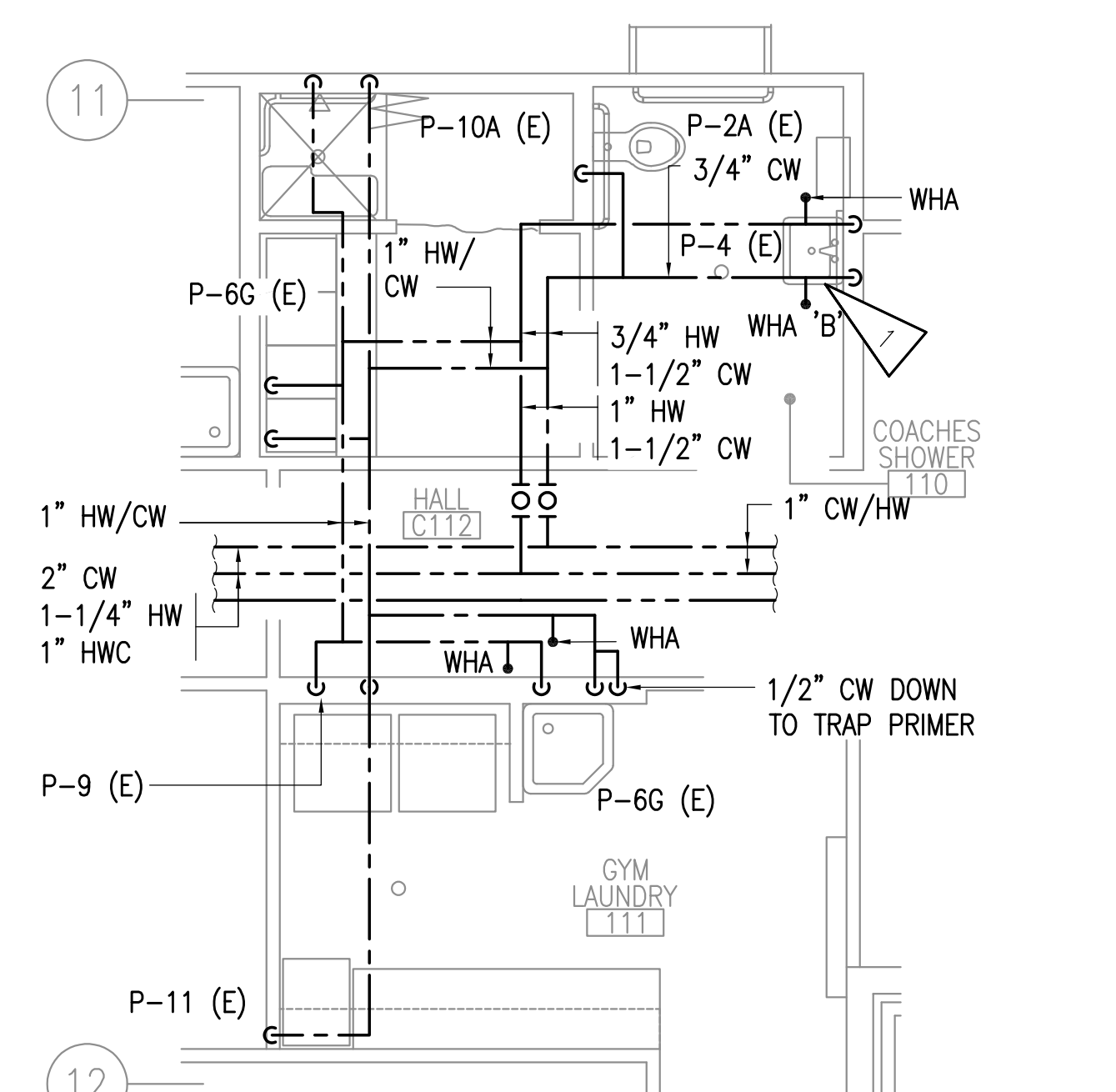
2 ENLARGED PLUMBING - T102
 1/4" = 1'-0"



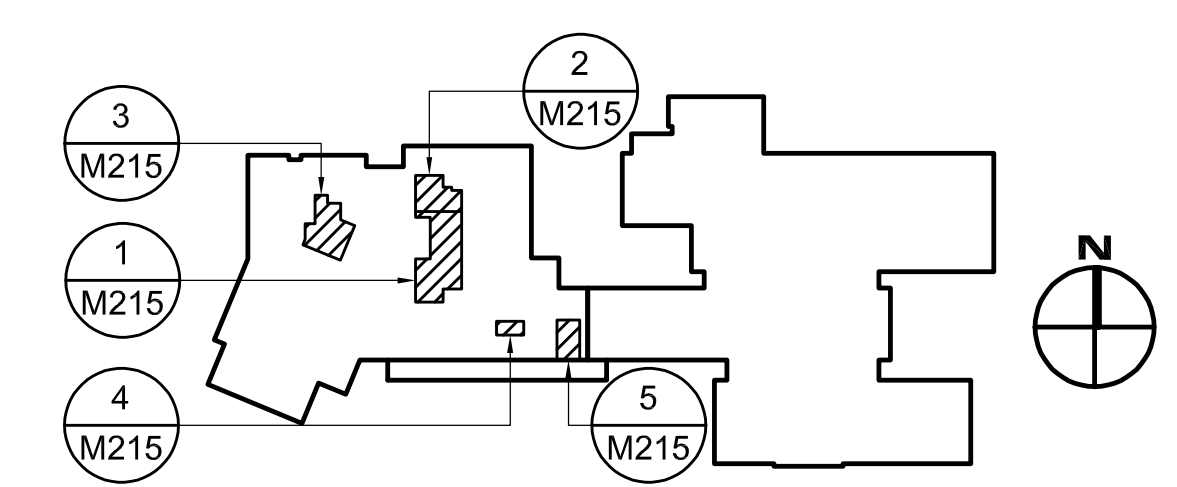
3 ENLARGED PLUMBING - T103, T104 & T105
 1/4" = 1'-0"



4 ENLARGED PLUMBING - T108
 1/4" = 1'-0"



5 ENLARGED PLUMBING - 110 & 111
 1/4" = 1'-0"





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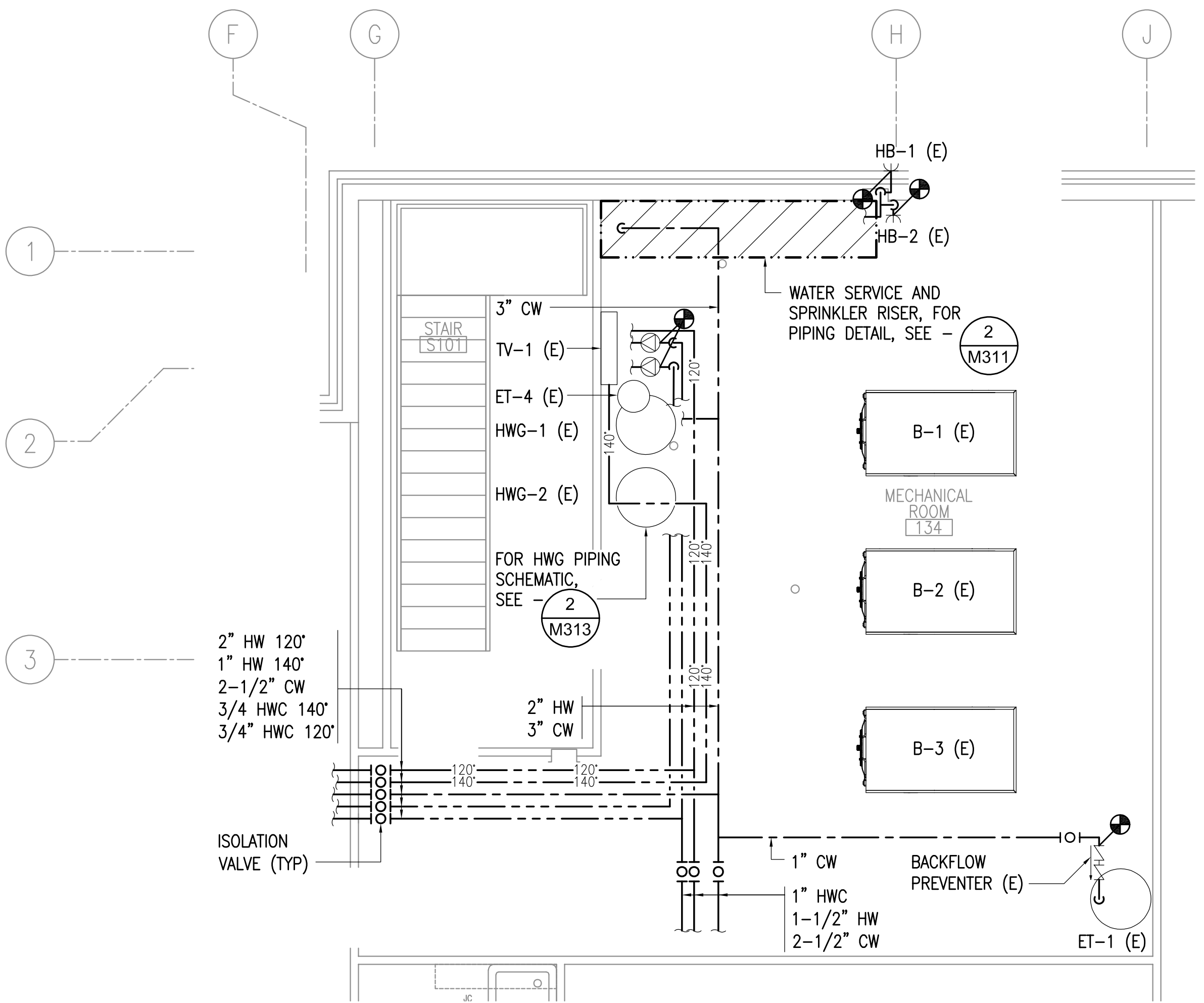
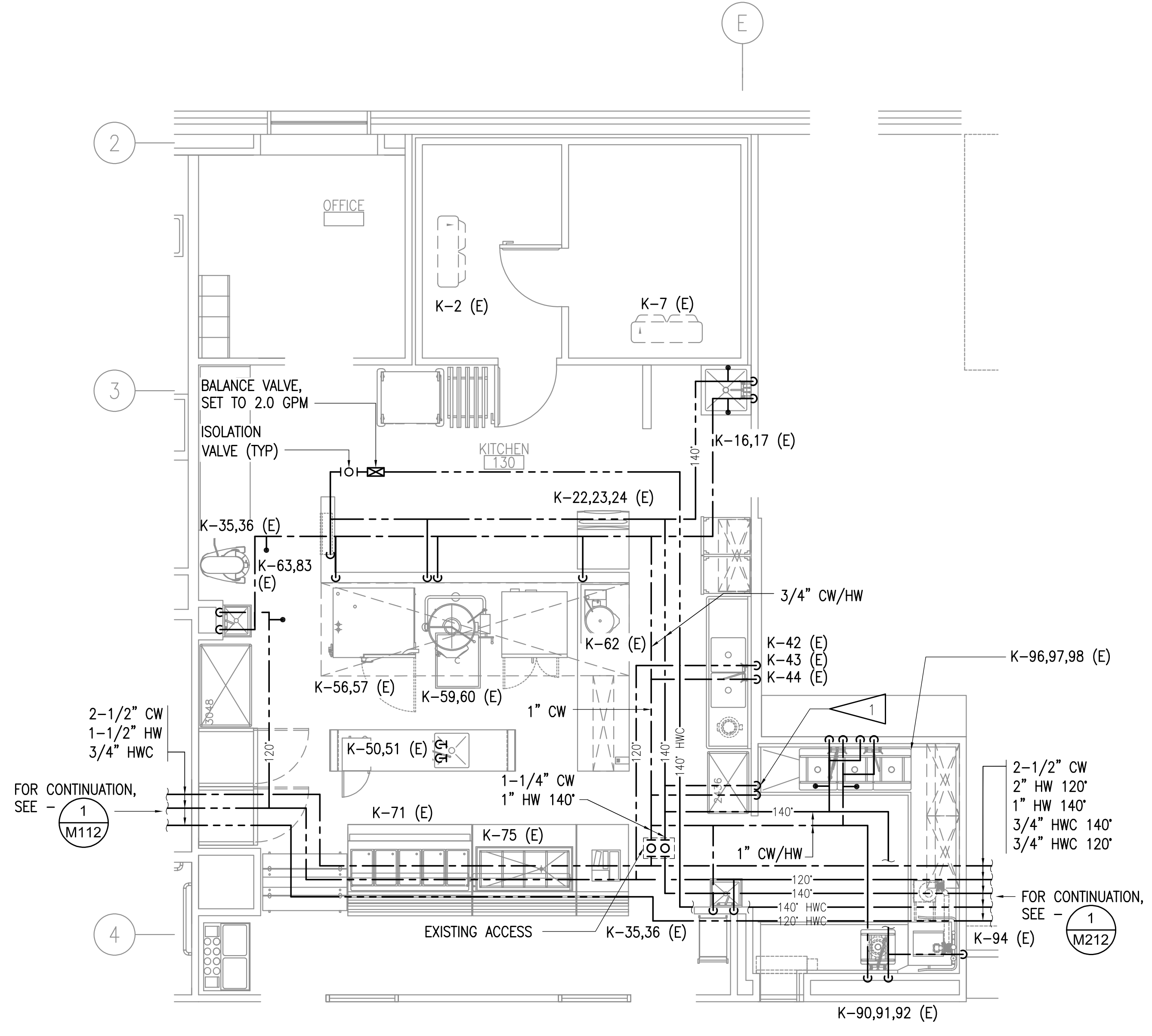
VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
GEORGE H. GILSON MIDDLE SCHOOL
357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686

REVISIONS:

DRAWN BY: CAA
 CHECKED BY: BPP,AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 ENLARGED KITCHEN
 AND MECHANICAL ROOM
 PIPING REMODEL PLANS

SHEET:
M216



1 ENLARGED ABOVE FLOOR PLUMBING - KITCHEN
 1/4" = 1'-0"

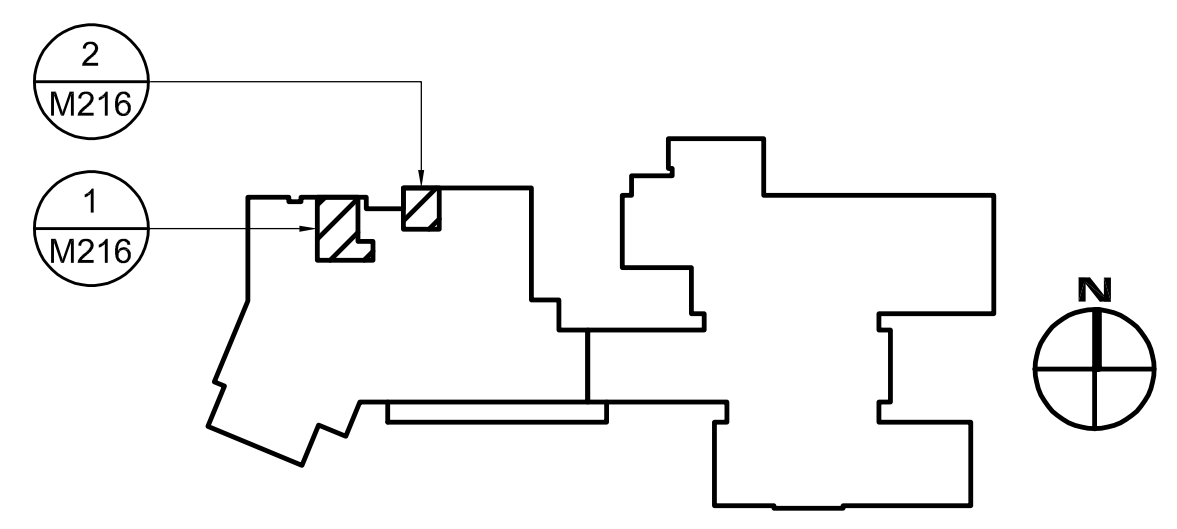
2 ENLARGED MECHANICAL ROOM PIPING REMODEL PLAN - BLOCK D
 1/4" = 1'-0"

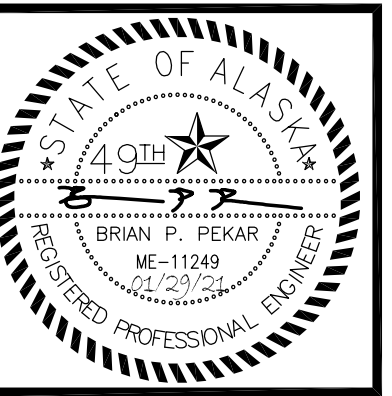
GENERAL NOTES:

- A. ALL WATER HAMMER ARRESTORS SHALL BE PDI SIZE A, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION VALVE AND ACCESS PANEL FOR ALL WATER HAMMER ARRESTORS. EXISTING ACCESS PANELS CAN BE RE-USED WHERE LOCATED ADJACENT TO NEW WATER HAMMER ARRESTORS.
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- C. FOR TYPICAL EXTERIOR HOSE BIBB DETAIL, SEE - 3/M312.
- D. PIPE ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY PIPE ROUTING.
- E. BRANCH PIPING TO BE INSTALLED WITH ISOLATION VALVES WITHIN 24" OF MAIN PIPING.
- F. REINSTALL EXISTING FIXTURES USING SALVAGED FIXTURE TRIM AND APPURTENANCES TO THE EXTENT POSSIBLE. CONTRACTOR TO REPLACE VALVES AND APPURTENANCES DAMAGED DURING DEMOLITION.
- G. PIPING IN WALLS - UNLESS NOTED OTHERWISE, ALL PIPING TO BE ROUTED CONCEALED IN WALLS FROM CEILING TO FIXTURE.

SHEET NOTES:

- 1 1/2" HW/CW DOWN TO BELOW GRADE. CONNECT TO EXISTING. 1/2" HW/CW PEX BELOW GRADE TO K-50,51. PROVIDE ISOLATION VALVES AND ACCESS DOOR AT TRANSITION.





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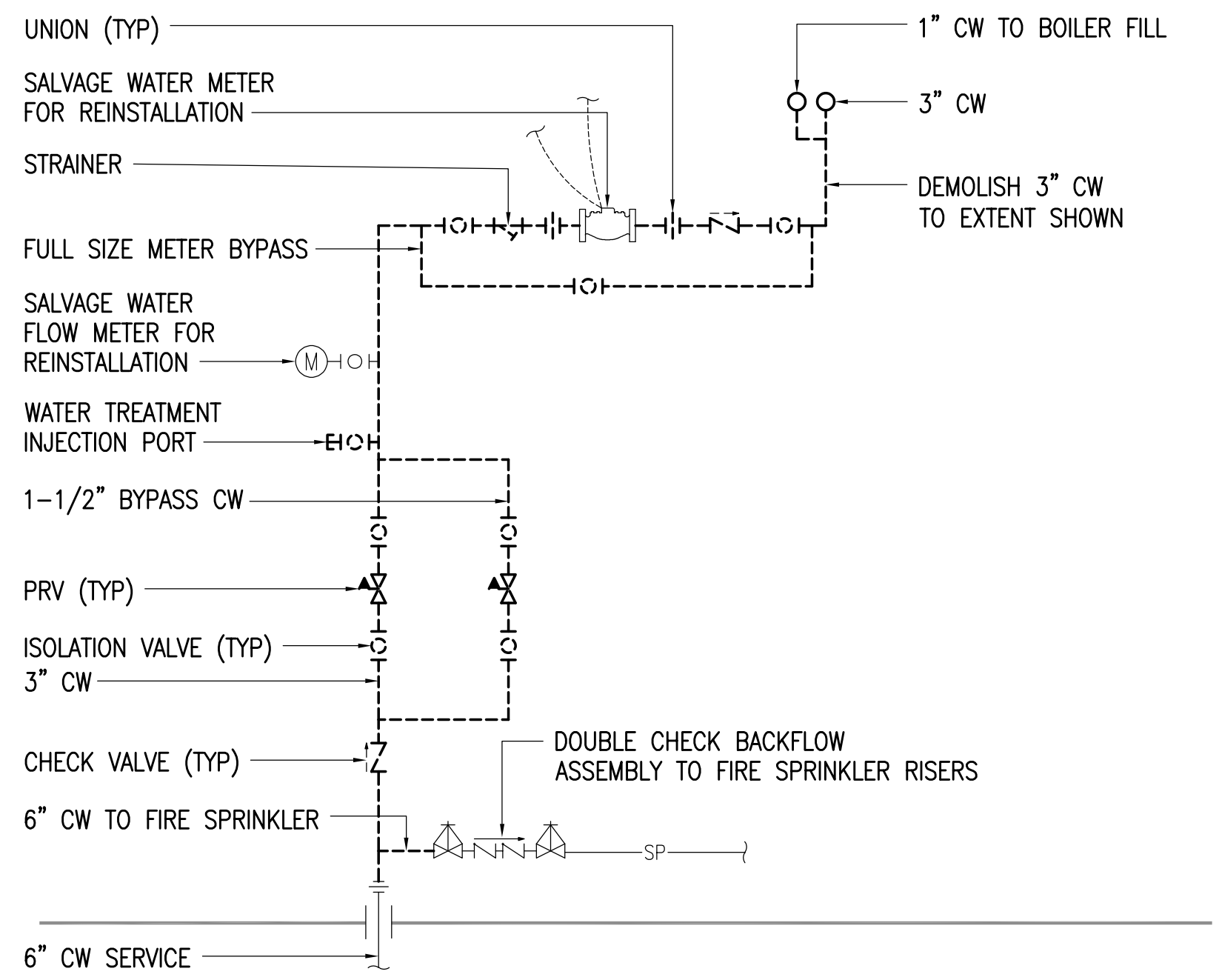
VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
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357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686

REVISIONS:

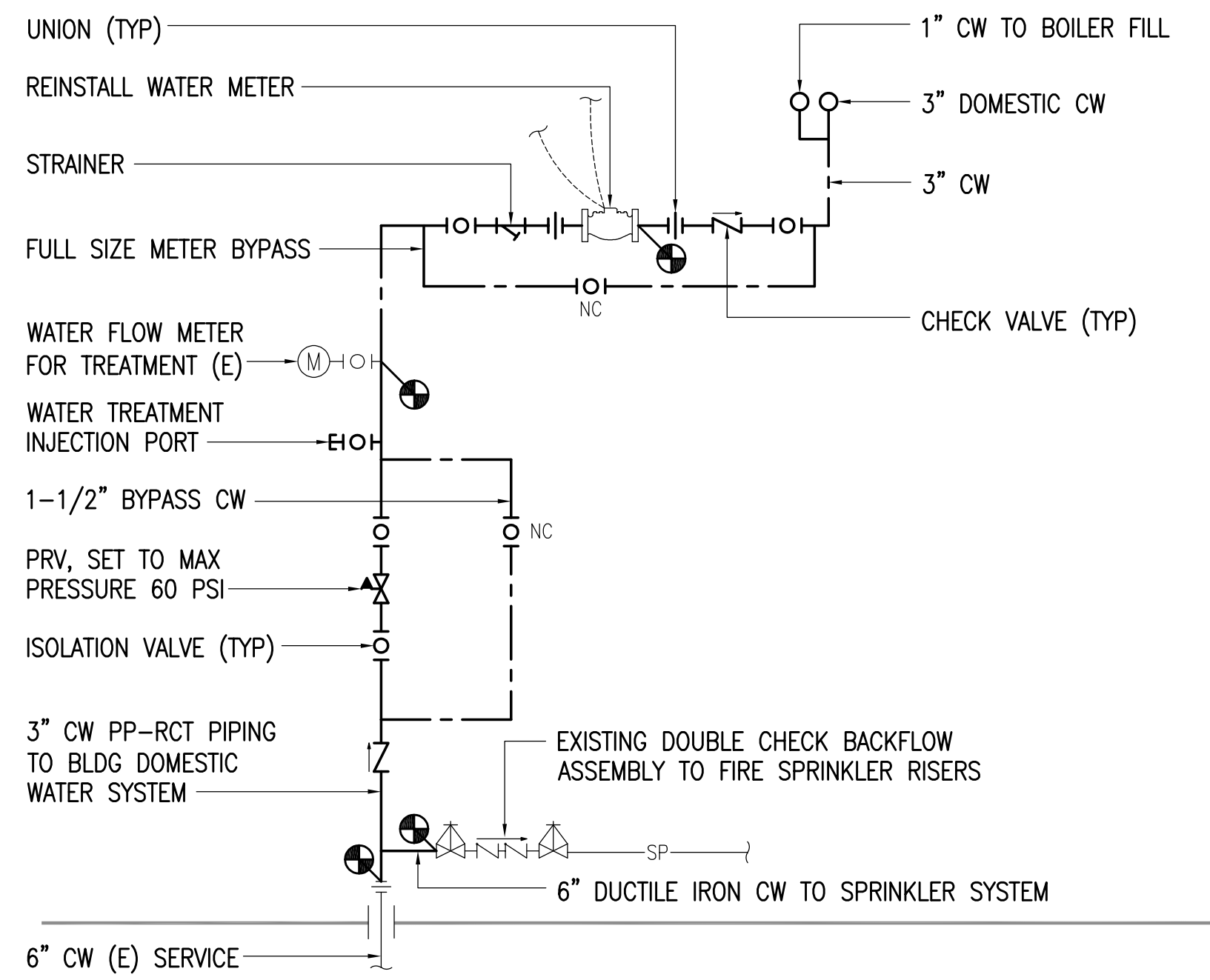
DRAWN BY: CAA
 CHECKED BY: BPP_AJS
 DATE: 01/29/2021
 JOB NUMBER: M0225.00
 DWG FILE: MSERIES

DRAWING TITLE:
 MECHANICAL DETAILS

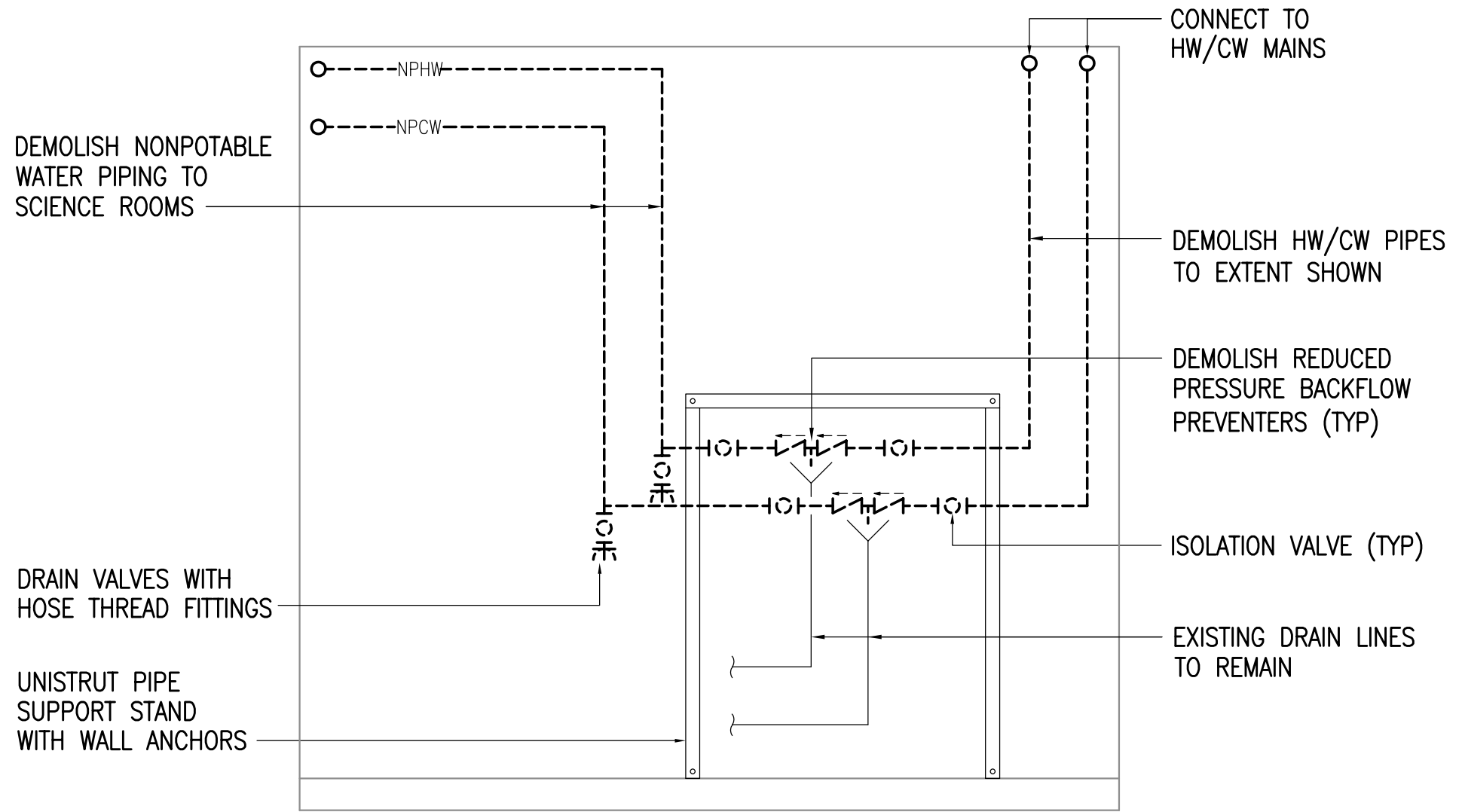
SHEET:
M311



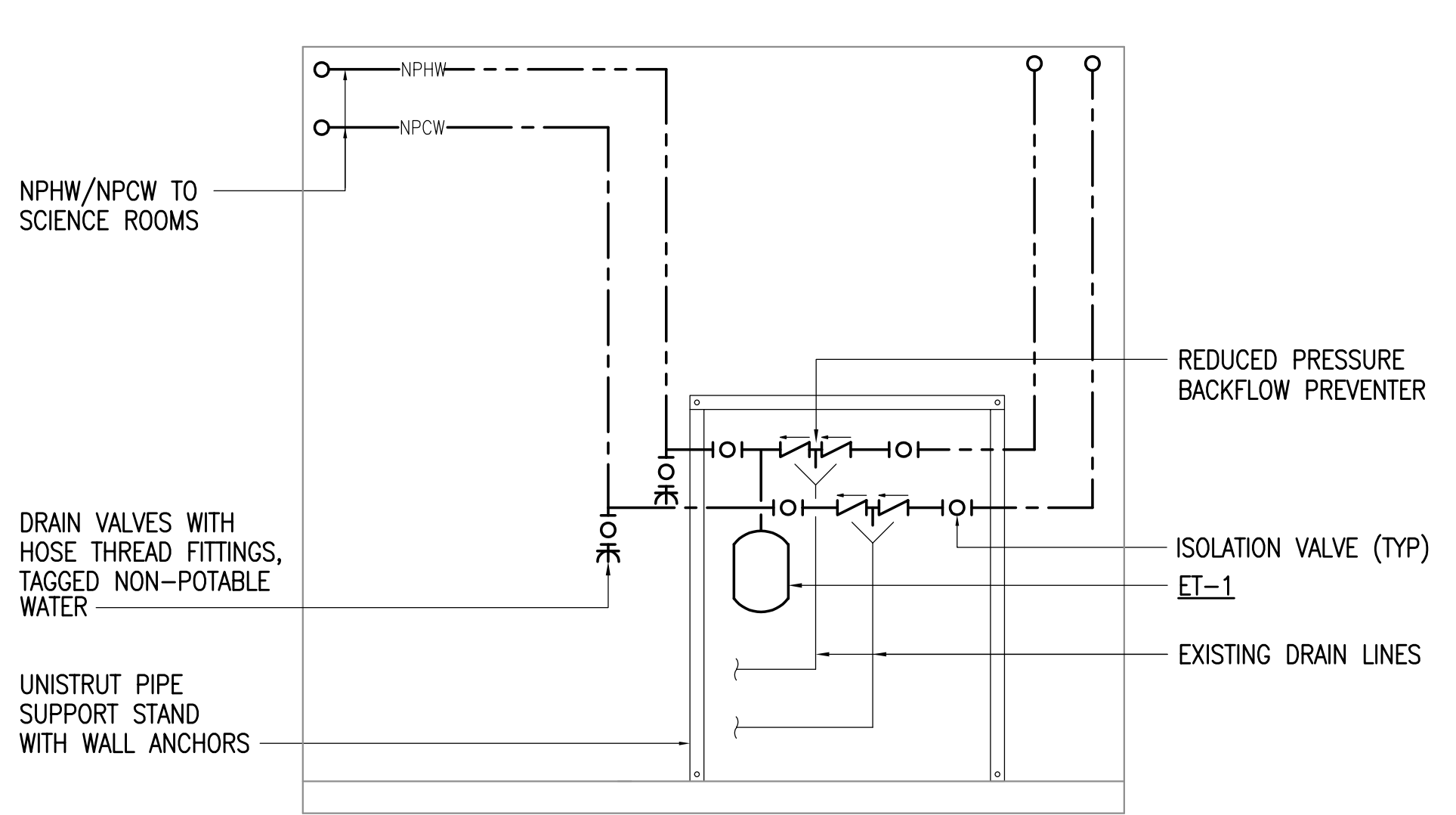
1 WATER SERVICE ENTRANCE DETAIL - DEMOLITION
 NO SCALE



2 WATER SERVICE ENTRANCE DETAIL - REMODEL
 NO SCALE

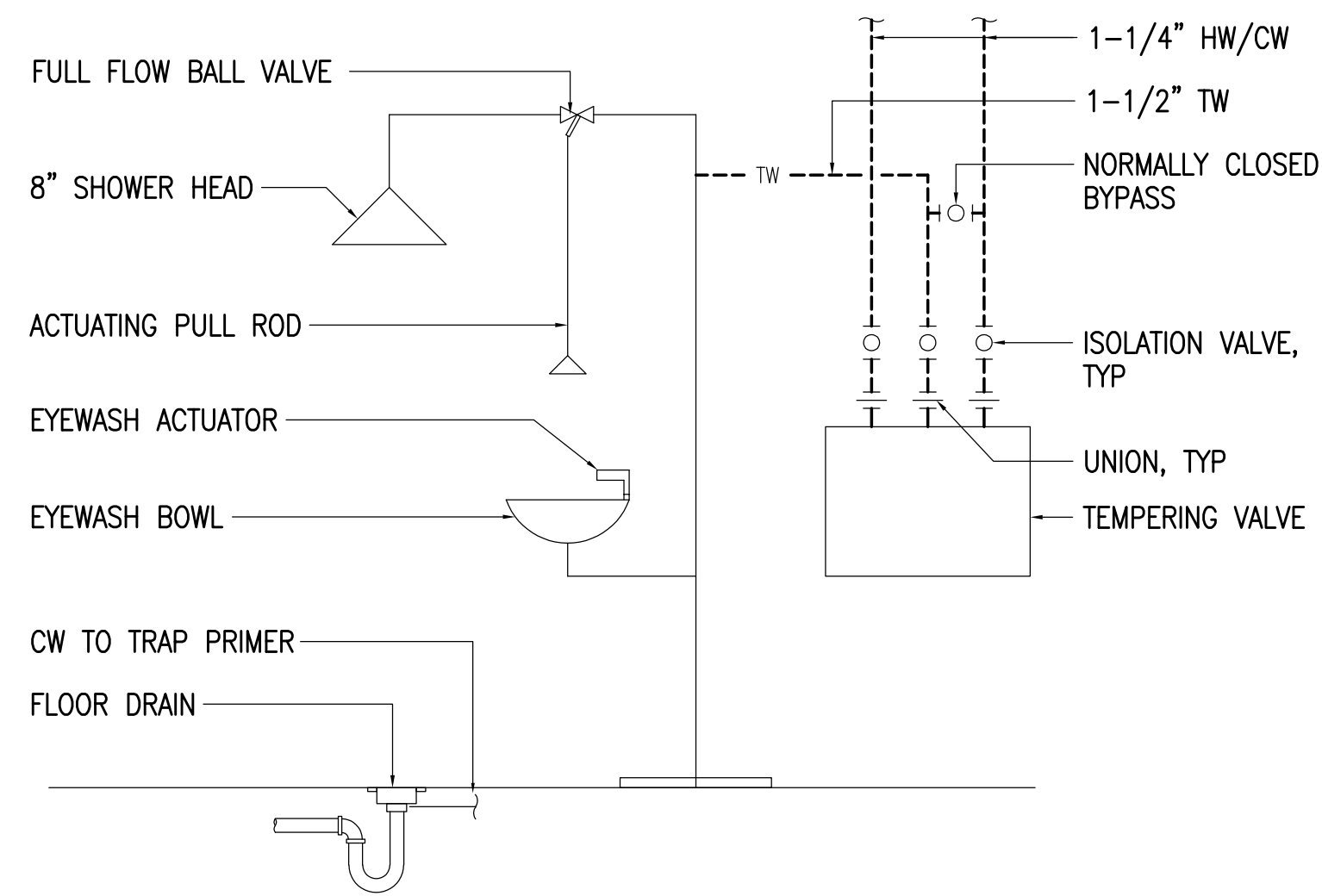


3 SCIENCE BACKFLOW PREVENTER DETAIL
 NO SCALE

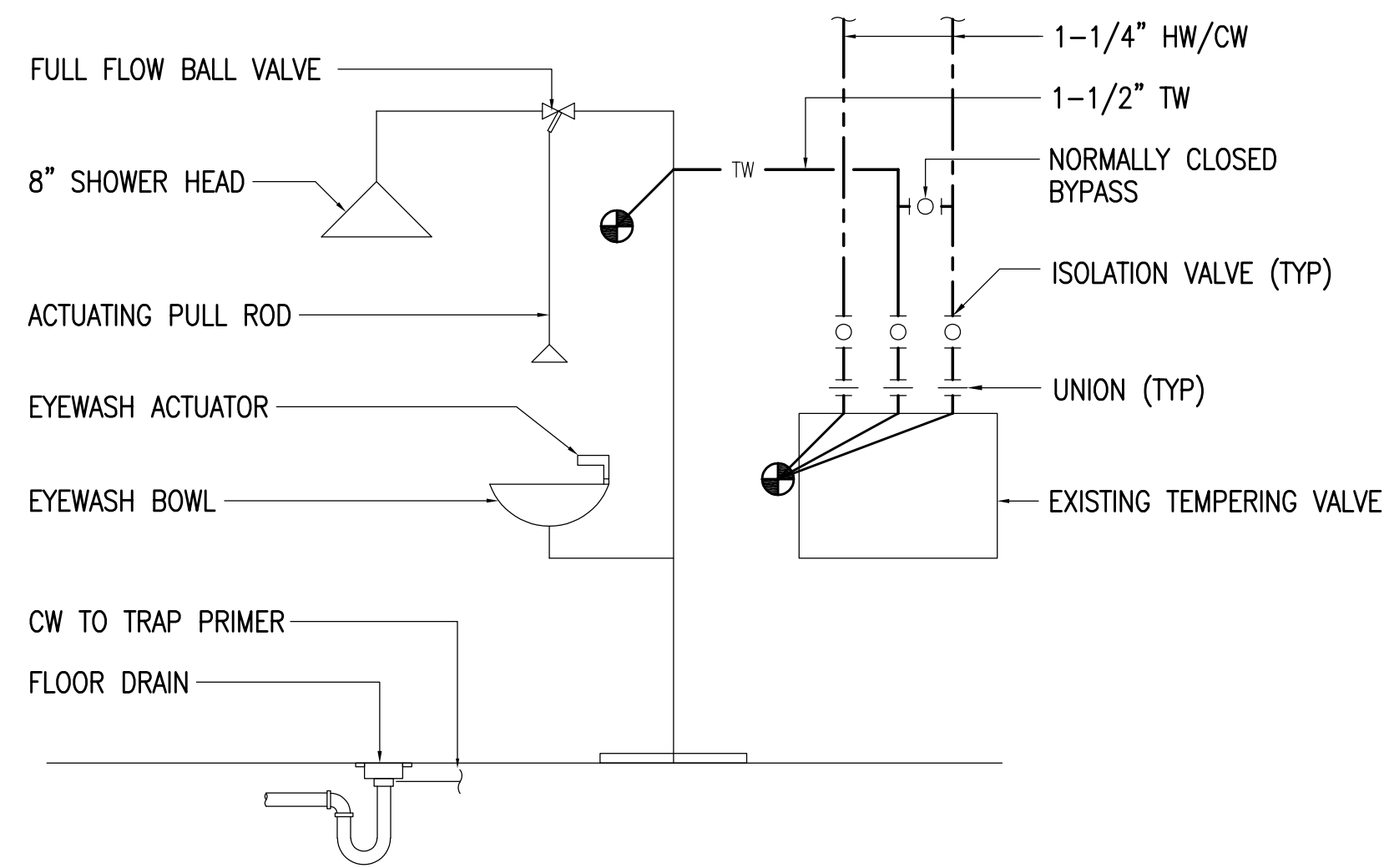


4 SCIENCE BACKFLOW PREVENTER DETAIL
 NO SCALE

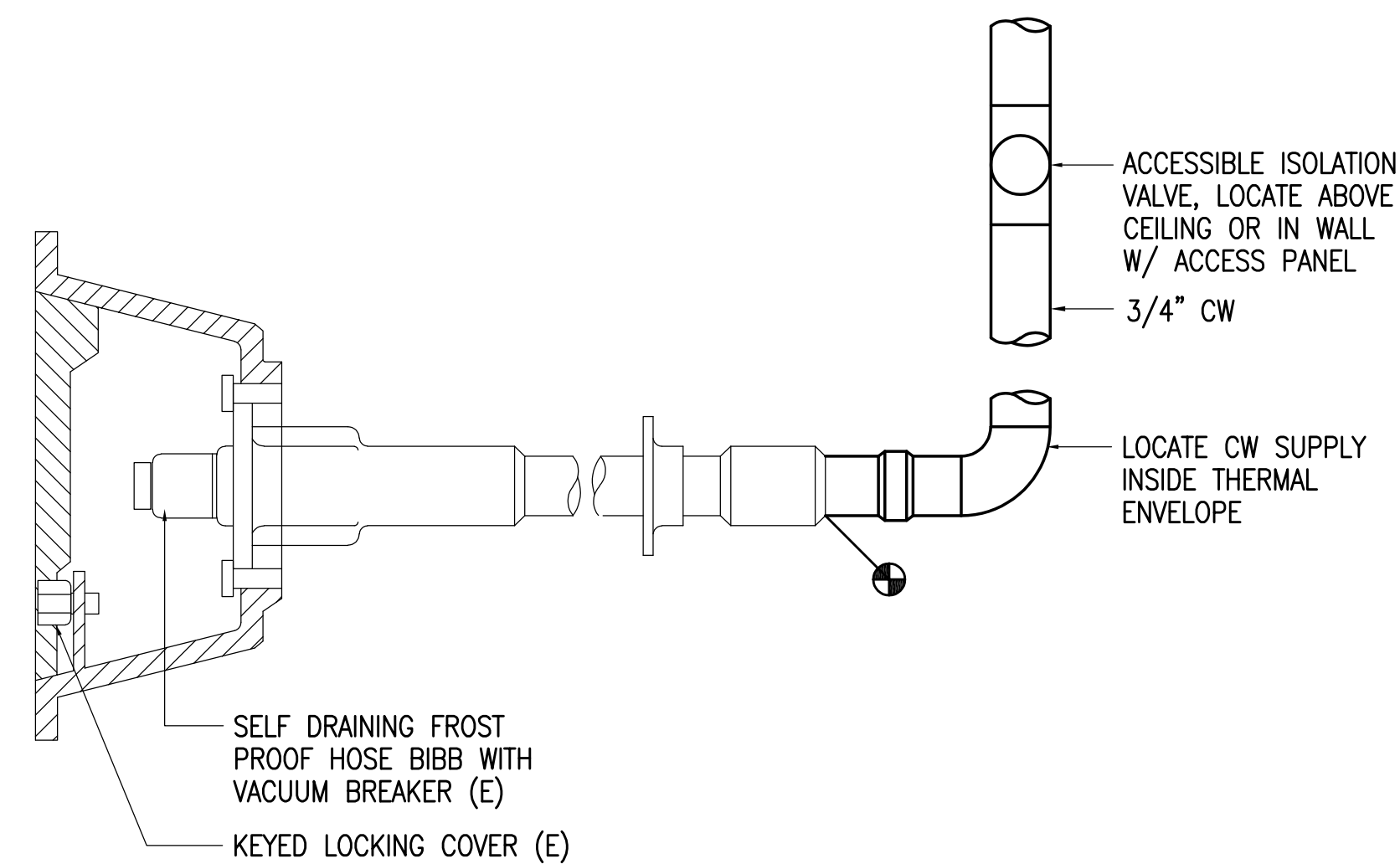
0"
1"
2"
3"



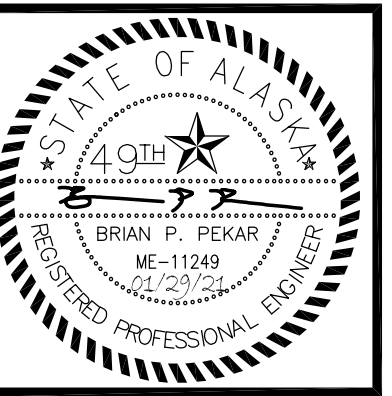
1 EYEWASH/SHOWER DEMOLITION DETAIL
NO SCALE



2 EYEWASH/SHOWER REMODEL DETAIL
NO SCALE



3 EXTERIOR HOSE BIBB DETAIL
NO SCALE



RSA
Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
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VALDEZ MS DOMESTIC WATER PIPING REPLACEMENT
GEORGE H. GILSON MIDDLE SCHOOL
357 ROBE RIVER DRIVE,
VALDEZ, ALASKA 99686

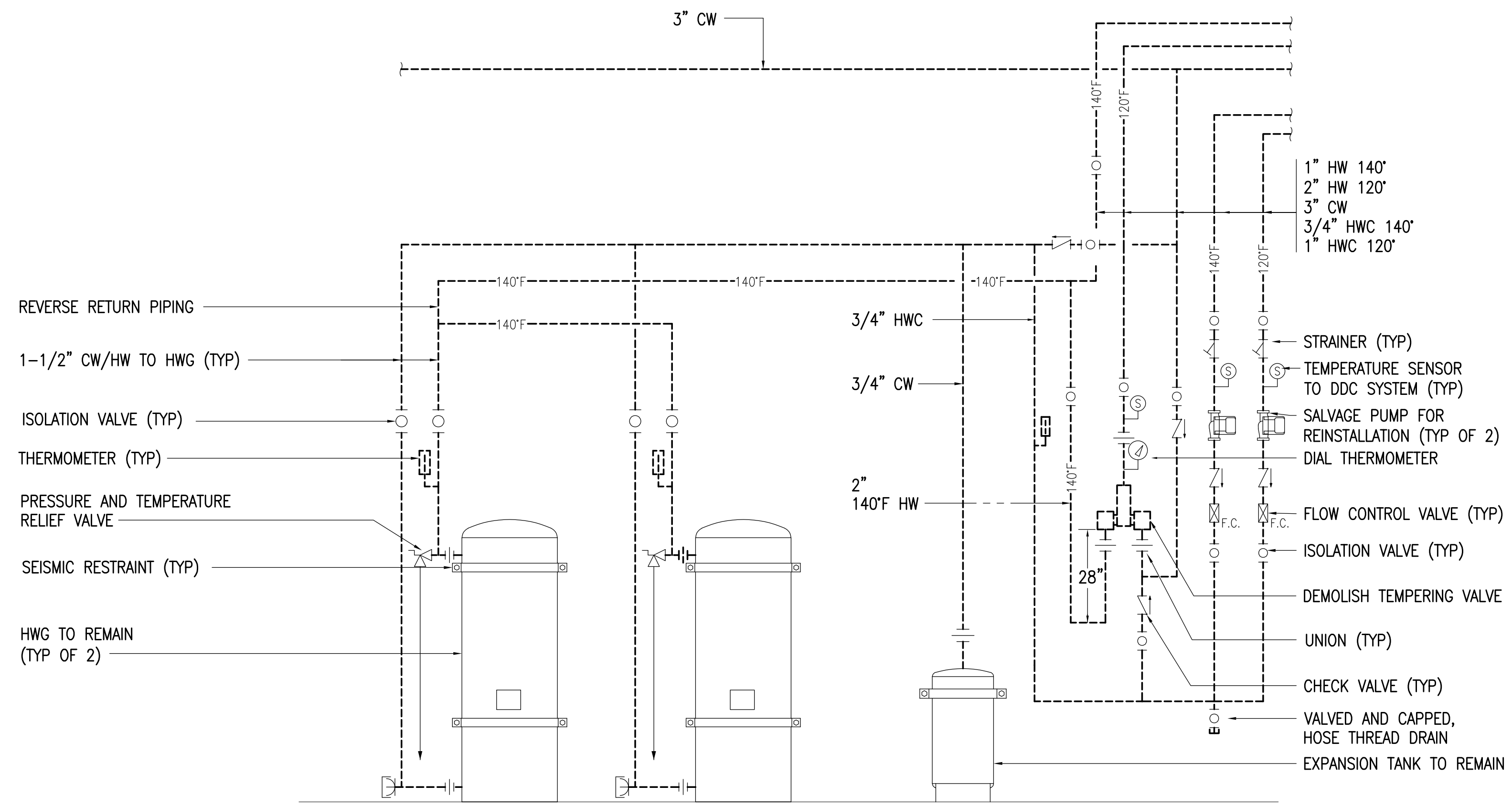
REVISIONS:

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CHECKED BY: BPP_AJS
DATE: 01/29/2021
JOB NUMBER: M0225.00
DWG FILE: MSERIES

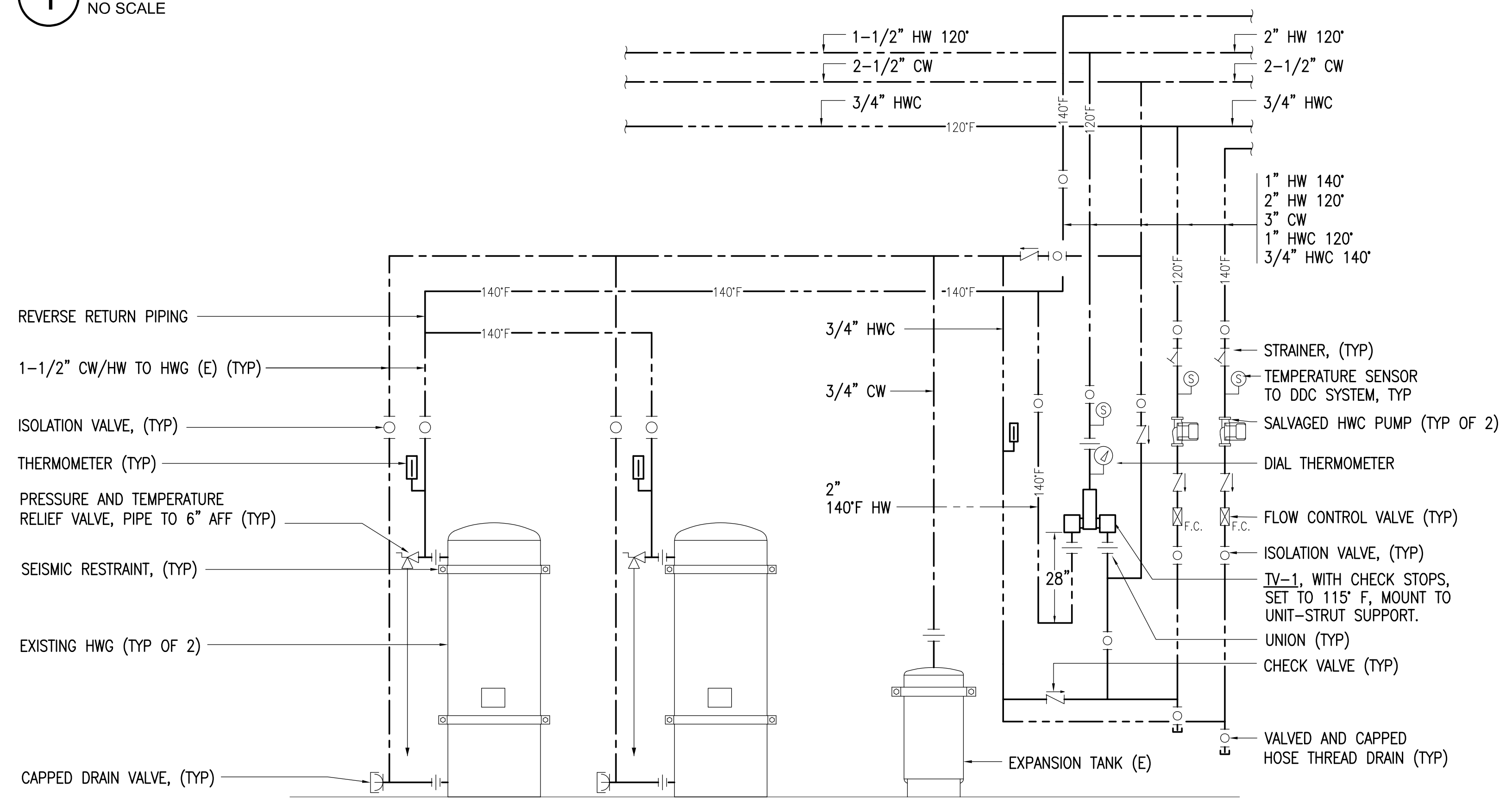
DRAWING TITLE:
MECHANICAL DETAILS

SHEET:
M312

0"
1"
2"
3"



1 DOMESTIC WATER PIPING DEMOLITION SCHEMATIC
NO SCALE



2 DOMESTIC WATER PIPING REMODEL SCHEMATIC
NO SCALE



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DRAWING TITLE:
DOMESTIC WATER PIPING
DEMOLITION AND
REMODEL SCHEMATICS

SHEET:
M313