

GENERAL NOTES:

- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET **X P4.0** FOR DOMESTIC WATER RISER DIAGRAMS
- ◇ = RISER LETTER (ALPHABETIC)
- SEE SHEET **X P5.0** FOR WASTE/VENT RISER DIAGRAMS
- ◇# = RISER NUMBER (NUMERICAL)



KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602
 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
 PLUMBING
 UNDERSLAB PLAN - SOUTH

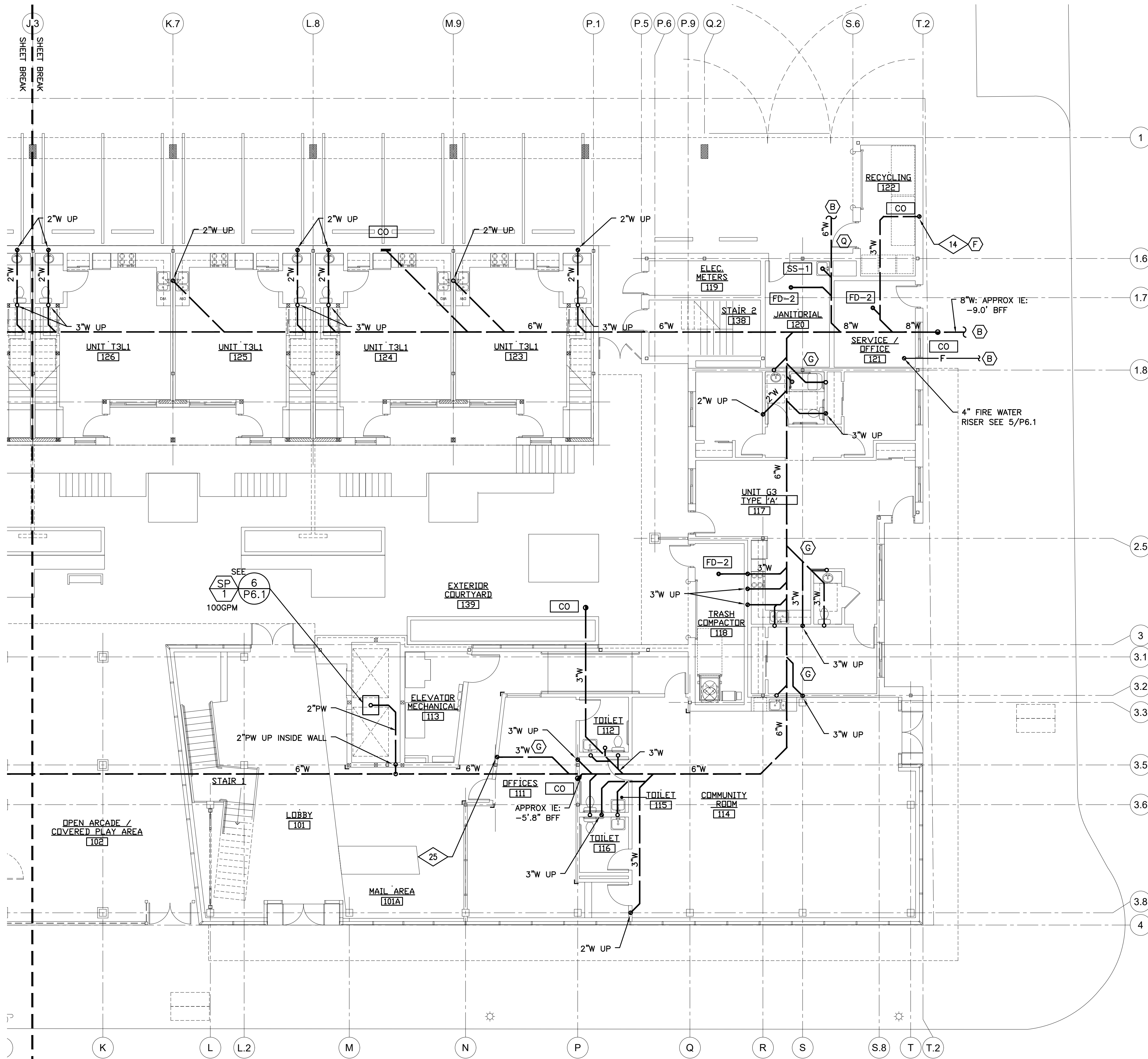
P1.0A

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

1 PLUMBING UNDERSLAB PLAN - SOUTH
 SCALE: 1/8" = 1'-0"

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0514
 FAX: (503) 234-0677
 INC. WWW.MFI-ENG.COM
 CONTACT: Takako Baker

MBA
 MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 www.merrymanbarnesarchitects.com



GENERAL NOTES:

- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

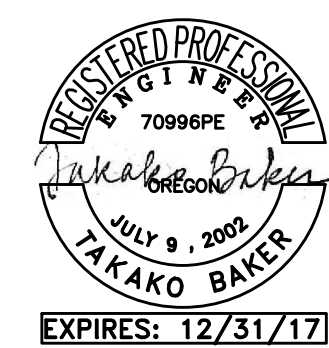
KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT. OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

SEE SHEET **X P4.0** FOR DOMESTIC WATER RISER DIAGRAMS
 (X) = RISER LETTER (ALPHABETIC)

SEE SHEET **X P5.0** FOR WASTE/VENT RISER DIAGRAMS
 (#) = RISER NUMBER (NUMERICAL)



KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753
 www.merrymanbarnesarchitects.com



PROJECT NO. 16-0602 ISSUE DATE 11.15.2017

REVISIONS

SHEET **PLUMBING UNDERSLAB PLAN - NORTH**

P1.0B

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

1 PLUMBING UNDERSLAB PLAN - NORTH
 SCALE: 1/8" = 1'-0"

MERRYMAN BARNES ARCHITECTS
 Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MBIA-ENG.COM
 CONTACT: Takako Baker



GENERAL NOTES:

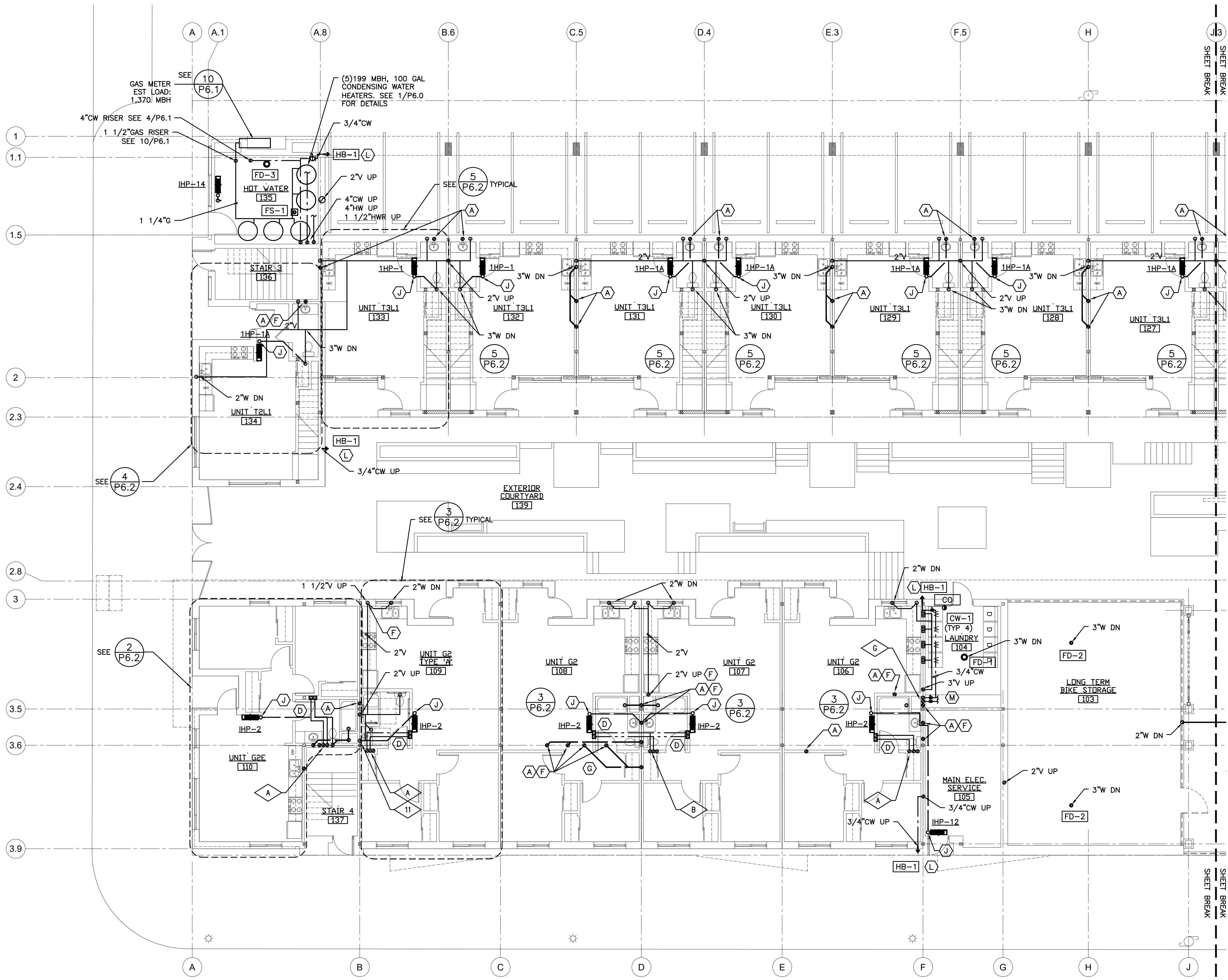
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1"CW & 1"HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X) P4.0 FOR DOMESTIC WATER RISER DIAGRAMS
 - (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X) P5.0 FOR WASTE/VENT RISER DIAGRAMS
 - (#) = RISER NUMBER (NUMERICAL)



1 PLUMBING FIRST FLOOR PLAN - SOUTH
 SCALE: 1/8" = 1'-0"
 P2.0A

KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

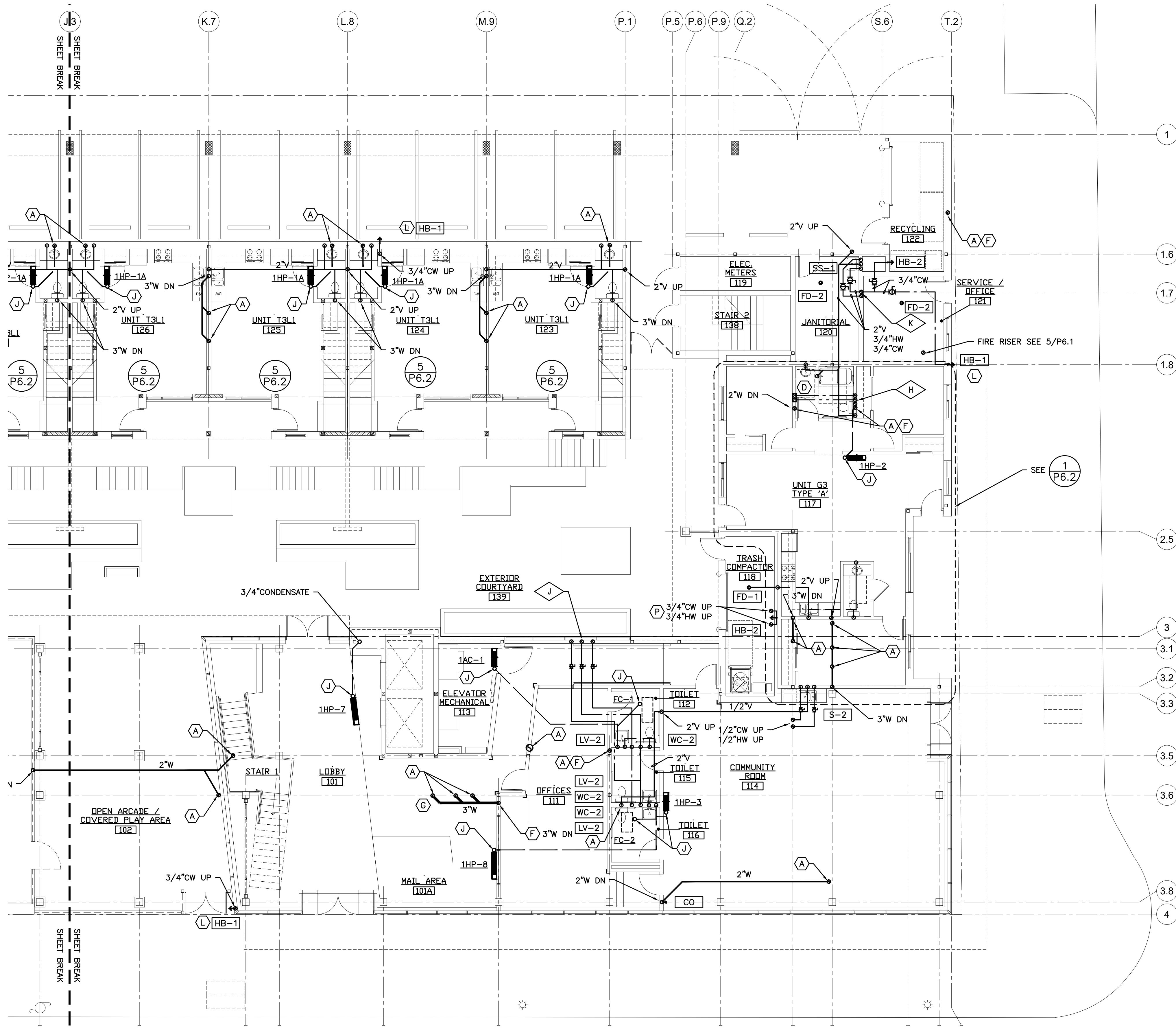
SHEET
 PLUMBING FIRST FLOOR PLAN - SOUTH

P2.0A

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MFI-ENG.COM
 CONTACT: Takako Baker

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 www.merrymanbarnesarchitects.com



GENERAL NOTES:

- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

SEE SHEET (X) FOR DOMESTIC WATER RISER DIAGRAMS

(X) = RISER LETTER (ALPHABETIC)

SEE SHEET (X) FOR WASTE/VENT RISER DIAGRAMS

(#) = RISER NUMBER (NUMERICAL)



KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM

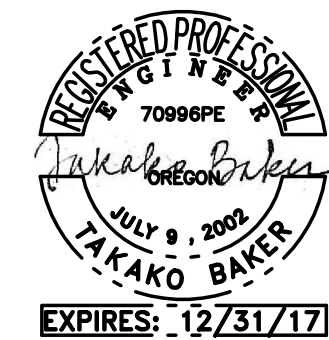


PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
PLUMBING FIRST FLOOR PLAN - NORTH
P2.0B
 PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

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

Merryman Barnes Architects
 Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MBIA-ENG.COM
 CONTACT: Takako Baker



GENERAL NOTES:

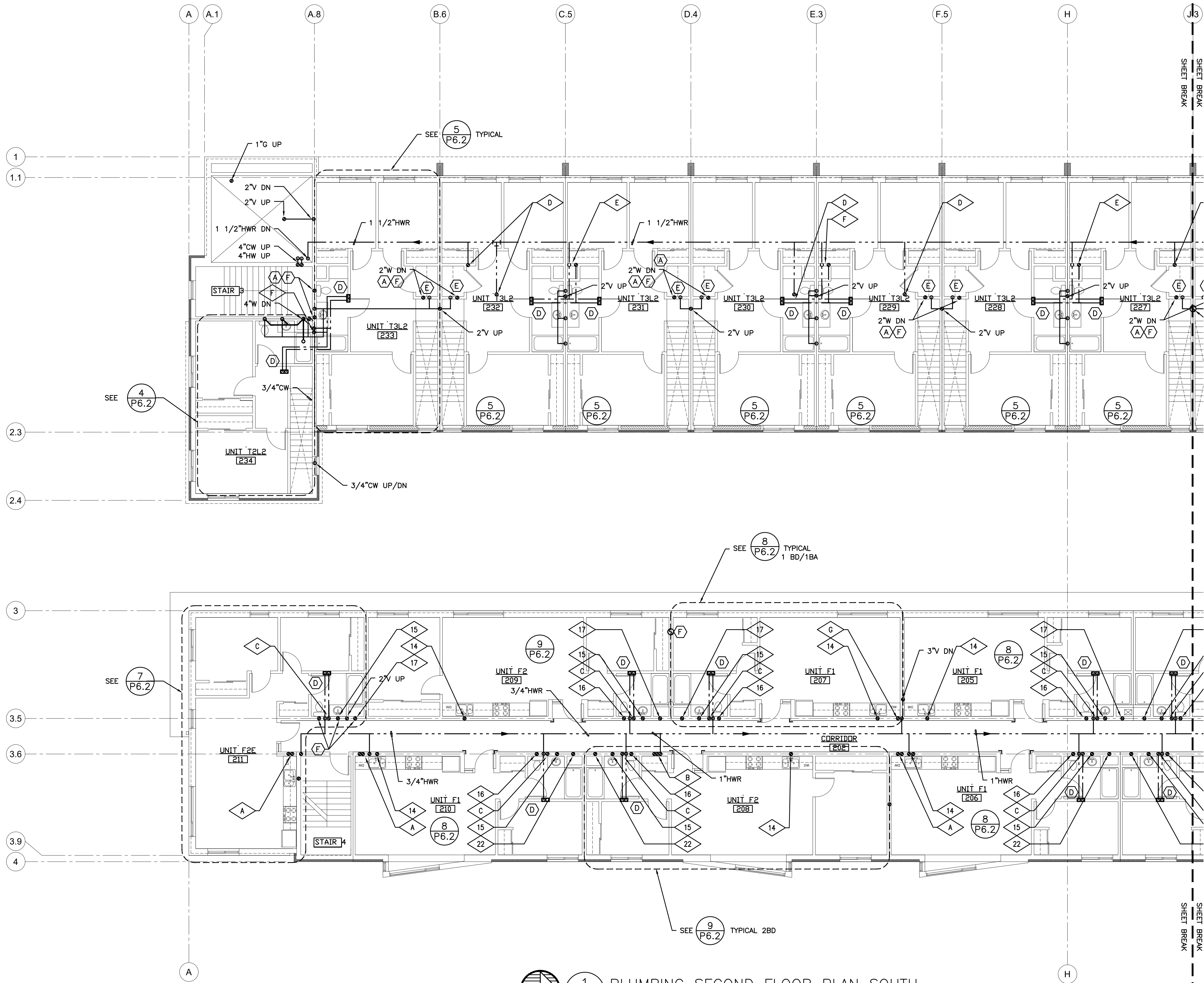
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1"CW & 1"HWR WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X) P4.0 FOR DOMESTIC WATER RISER DIAGRAMS
- (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X) P5.0 FOR WASTE/VENT RISER DIAGRAMS
- (#) = RISER NUMBER (NUMERICAL)



1 P2.1A PLUMBING SECOND FLOOR PLAN SOUTH
SCALE: 1/8"=1'-0"

KING+PARKS MULTI-FAMILY RESIDENCES
PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602
ISSUE DATE 11.15.2017
REVISIONS

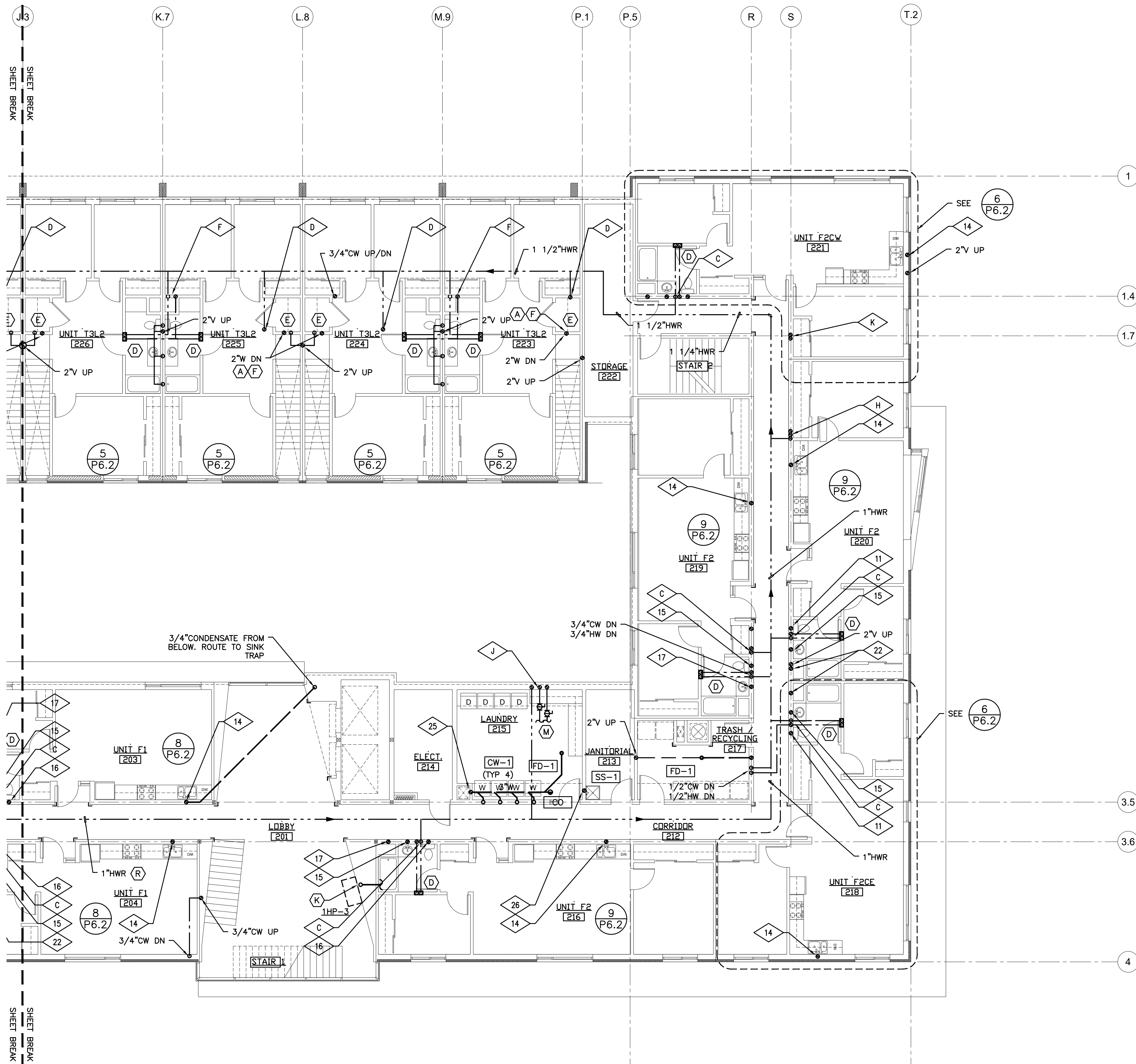
SHEET
PLUMBING SECOND FLOOR PLAN - SOUTH

P2.1A

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
INC. WWW.MFIA-ENG.COM
CONTACT: Takako Baker

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753
WWW.MERRYMANBARNESARCHITECTS.COM



1 PLUMBING SECOND FLOOR PLAN - NORTH
 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THAN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

SEE SHEET (X) P4.0 FOR DOMESTIC WATER RISER DIAGRAMS

(X) = RISER LETTER (ALPHABETIC)

SEE SHEET (X) P5.0 FOR WASTE/VENT RISER DIAGRAMS

(#) = RISER NUMBER (NUMERICAL)



KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

MERRYMAN BARNES ARCHITECTS 4713 N ALBANY AVE SUITE 304 PORTLAND, OREGON 97217 P: 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM

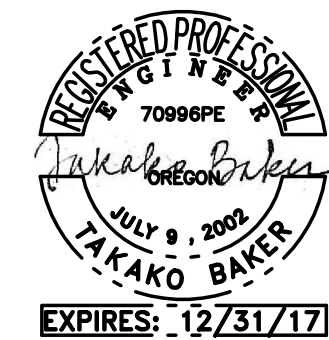


PROJECT NO. 16-0602
 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
 PLUMBING SECOND FLOOR PLAN - NORTH
P2.1B

MERRYMAN BARNES ARCHITECTS
 Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MBIA-ENG.COM
 CONTACT: Takako Baker

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.



GENERAL NOTES:

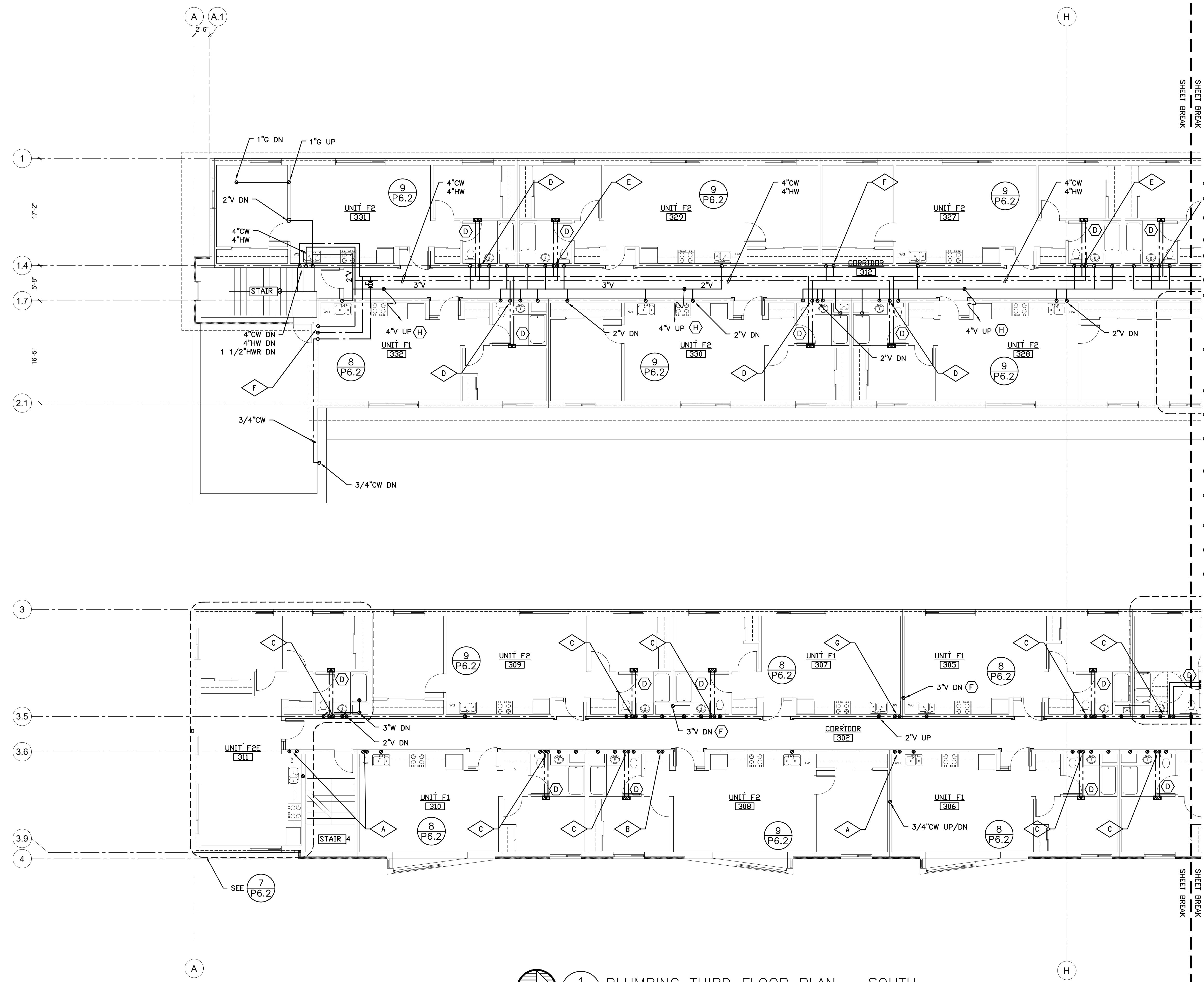
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THAN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X) P4.0 FOR DOMESTIC WATER RISER DIAGRAMS
 - (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X) P5.0 FOR WASTE/VENT RISER DIAGRAMS
 - (#) = RISER NUMBER (NUMERICAL)



1 PLUMBING THIRD FLOOR PLAN - SOUTH
 SCALE: 1/8" = 1'-0"

KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

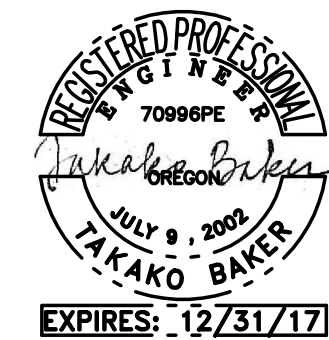
PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
PLUMBING THIRD FLOOR PLAN - SOUTH
P2.2A

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MFI-ENG.COM
 CONTACT: Takako Baker

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 www.merrymanbarnesarchitects.com



GENERAL NOTES:

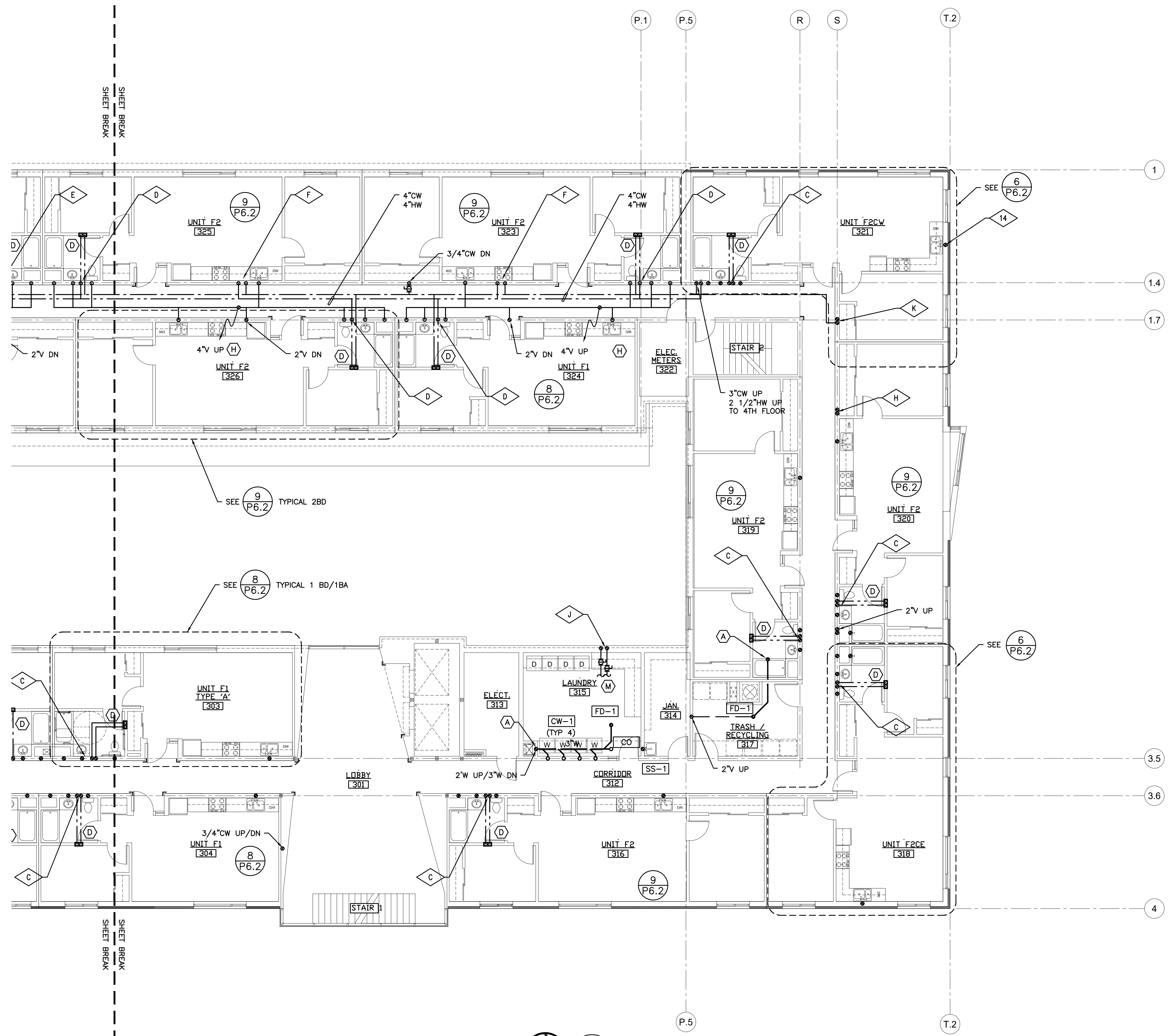
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1"CW & 1"HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X/P4.0) FOR DOMESTIC WATER RISER DIAGRAMS
 - (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X/P5.0) FOR WASTE/VENT RISER DIAGRAMS
 - (#) = RISER NUMBER (NUMERICAL)



1
PLUMBING THIRD FLOOR PLAN - NORTH
 SCALE: 1/8"=1'-0"

KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

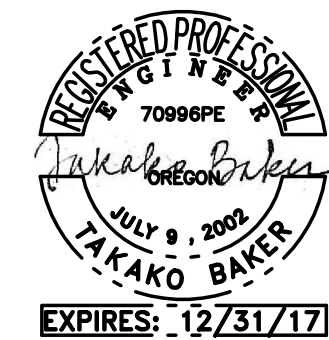


PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
PLUMBING THIRD FLOOR PLAN - NORTH
P2.2B

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MFI-ENG.COM
 CONTACT: Takako Baker



GENERAL NOTES:

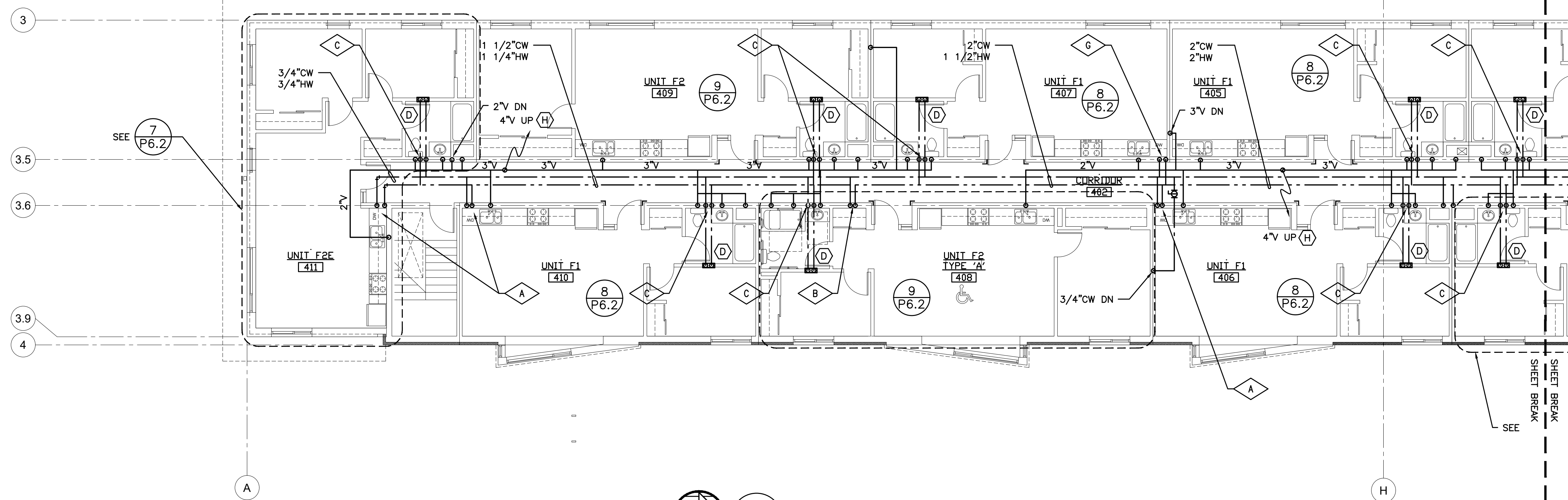
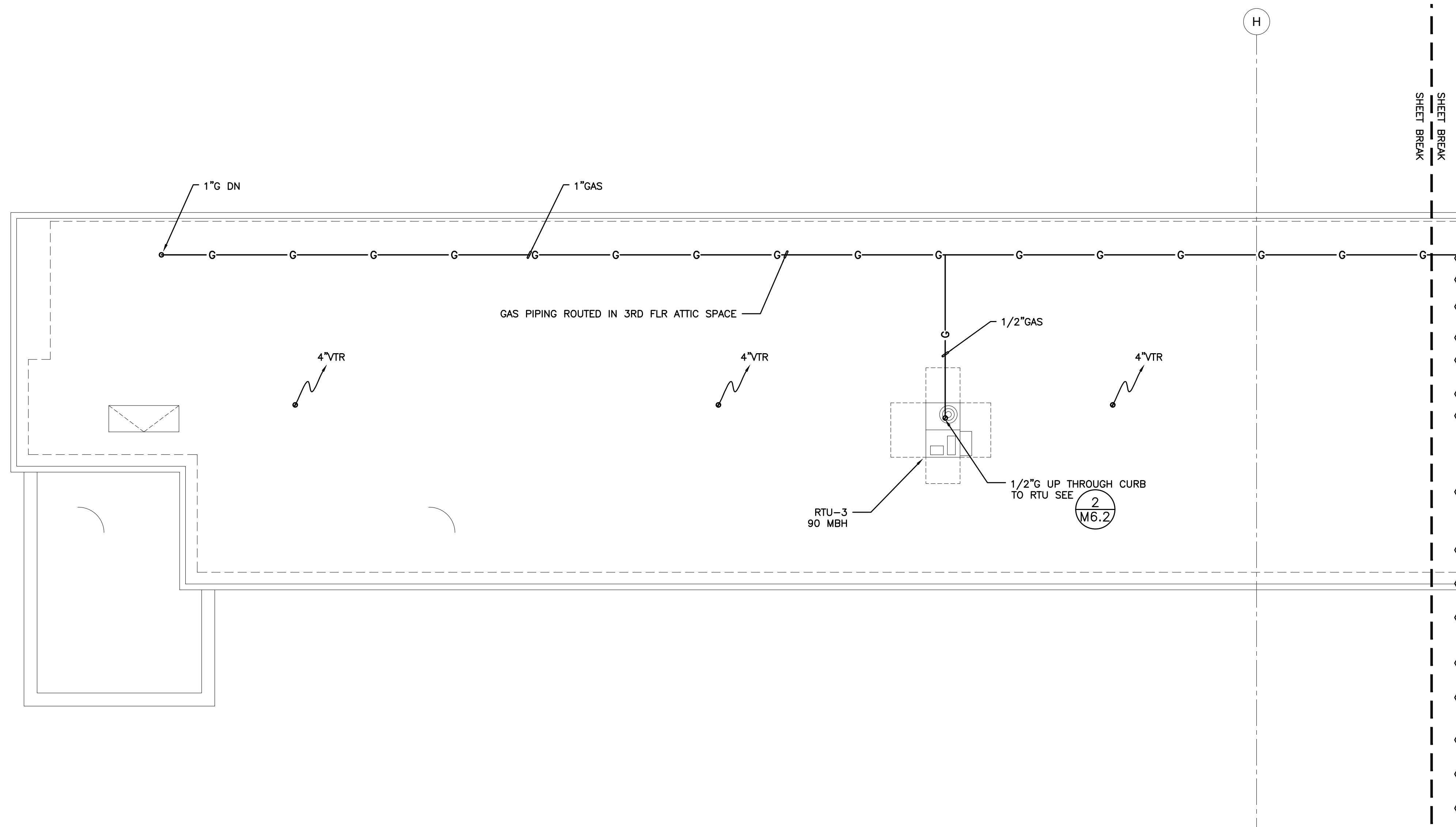
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X) P4.0 FOR DOMESTIC WATER RISER DIAGRAMS
- (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X) P5.0 FOR WASTE/VENT RISER DIAGRAMS
- (#) = RISER NUMBER (NUMERICAL)



1 PLUMBING FOURTH FLOOR PLAN - SOUTH
P2.3A SCALE: 1/8"=1'-0"

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MFI-ENG.COM
 CONTACT: Takako Baker

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

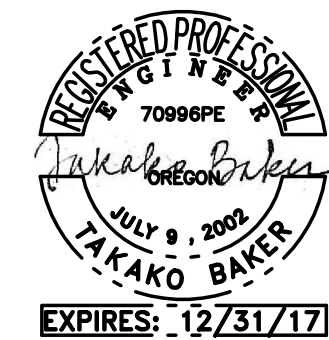
PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
 PLUMBING FOURTH FLOOR PLAN - SOUTH
P2.3A

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM





GENERAL NOTES:

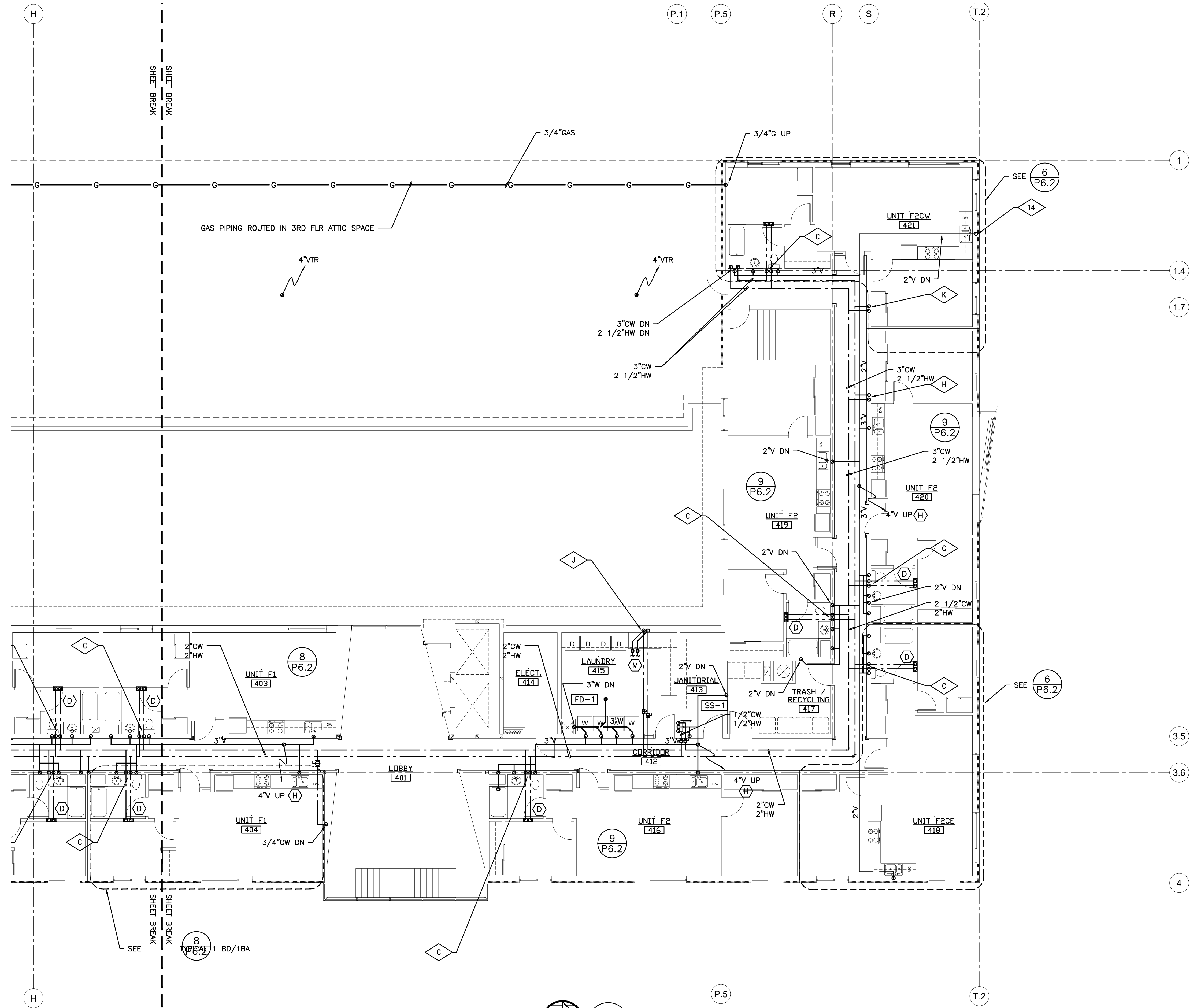
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1"CW & 1"HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X/P4.0) FOR DOMESTIC WATER RISER DIAGRAMS
- (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X/P5.0) FOR WASTE/VENT RISER DIAGRAMS
- (#) = RISER NUMBER (NUMERICAL)



1 PLUMBING FOURTH FLOOR PLAN - NORTH
 SCALE: 1/8" = 1'-0"

KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

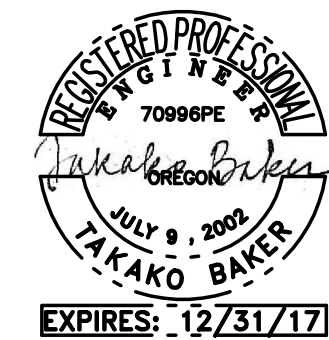
SHEET
PLUMBING FOURTH FLOOR PLAN - NORTH
P2.3B

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.



MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 www.merrymanbarnesarchitects.com





GENERAL NOTES:

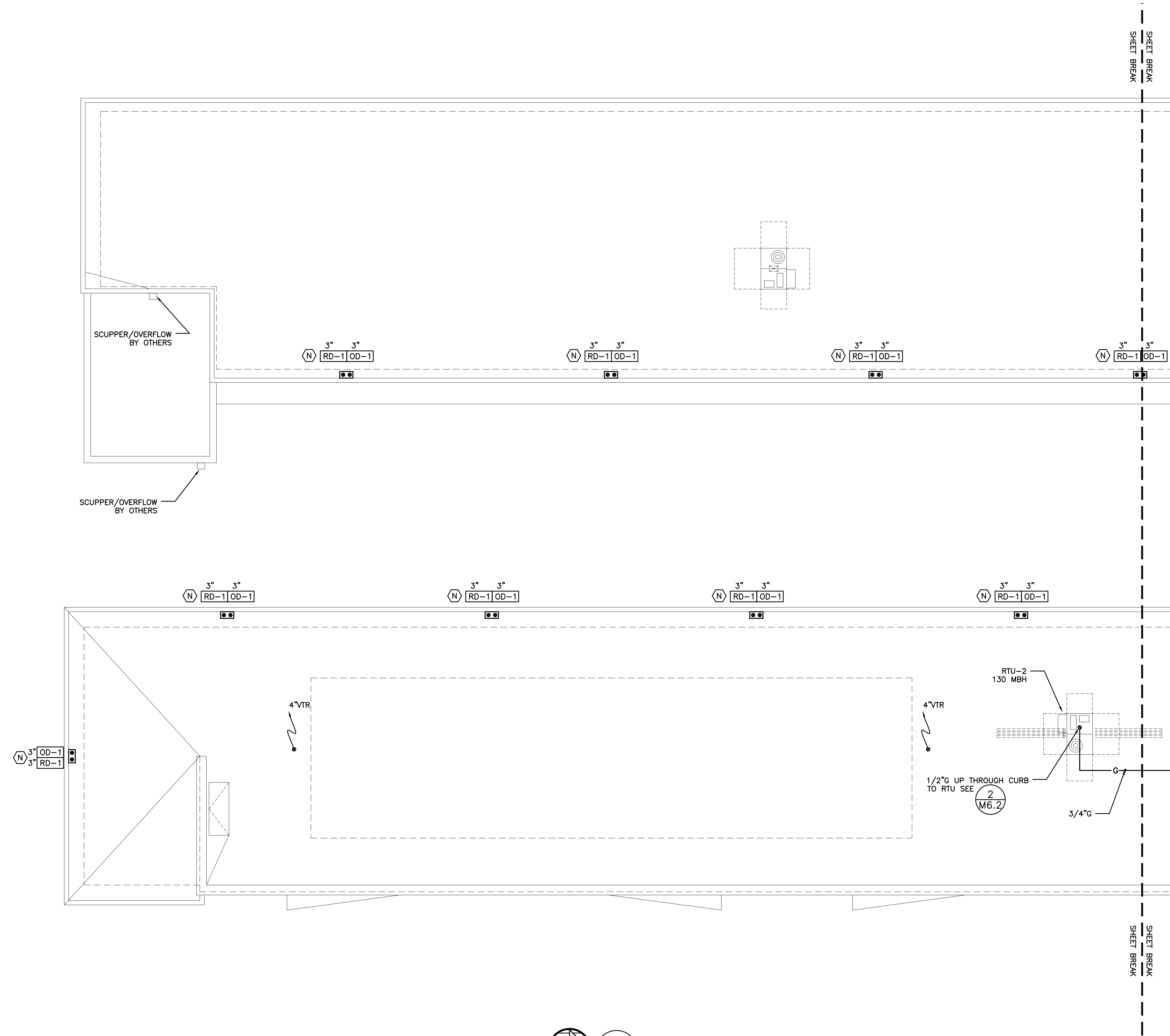
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET (X/P4.0) FOR DOMESTIC WATER RISER DIAGRAMS
 - (X) = RISER LETTER (ALPHABETIC)
- SEE SHEET (X/P5.0) FOR WASTE/VENT RISER DIAGRAMS
 - (#) = RISER NUMBER (NUMERICAL)



1 PLUMBING ROOF PLAN - SOUTH
P2.4A SCALE: 1/8" = 1'-0"

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0514
FAX: (503) 234-0677
WWW.MFI-ENG.COM
CONTACT: Takako Baker

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

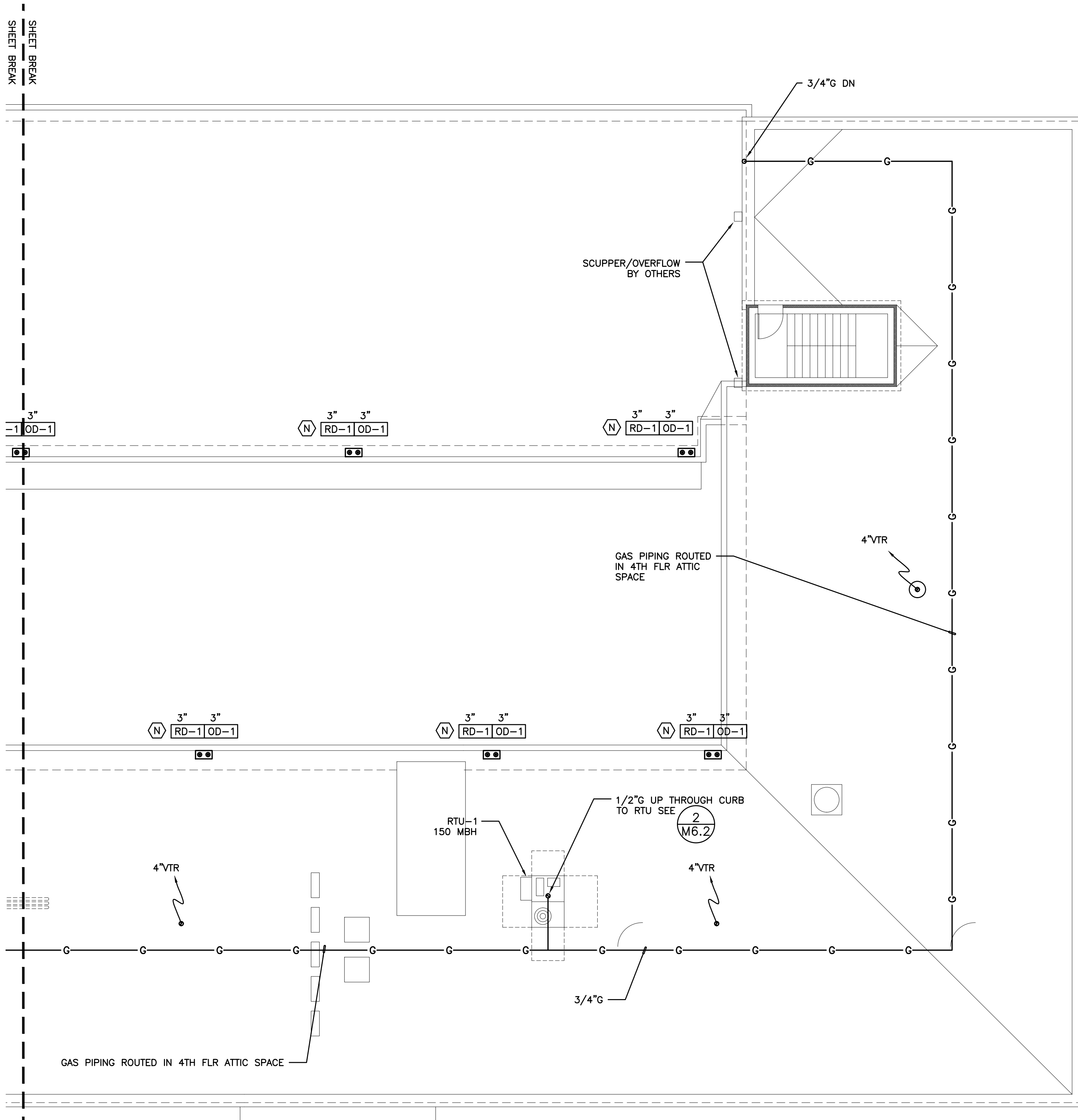


PROJECT NO. 16-0602 ISSUE DATE 11.15.2017

PLUMBING ROOF PLAN - SOUTH
P2.4A

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM



GENERAL NOTES:

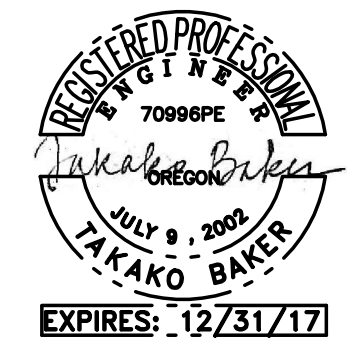
- A. ALL DOMESTIC WATER SUPPLY PIPING TO BE ROUTED ON CONDITIONED SIDE OF BUILDING INSULATION UNLESS OTHERWISE NOTED.
- B. ROUTE CONDENSATE DRAINS TO NEAREST SINK TAIL PIECE OR CLOTHES WASHER BOX.
- C. COORDINATE ALL PIPE ROUTING AND ROOF PENETRATIONS WITH MECHANICAL PRIOR TO STARTING WORK ALL AREAS.

KEYED NOTES:

- (A) - WASTE FROM FIXTURE STACK ABOVE, ROUTE TO BELOW
- (B) - SEE CIVIL FOR CONTINUATION.
- (C) - 1-1/2" HWR WITH BALANCING VALVE FOR EACH RISER STACK, SET BALANCING VALVES TO .75 GPM.
- (D) - SEE UNIT DISTRIBUTION DETAIL 3/P6.1.
- (E) - PROVIDE WASTE/VENT ROUGH-IN ONLY. CAP FOR FUTURE CONNECTION.
- (F) - OFFSET W AND V RISERS AS NEEDED FOR ROUTING
- (G) - DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.
- (H) - ROUTE VENT RISERS TO 3" VENT MANIFOLD. OFFSET AS REQUIRED AND COMBINE MULTIPLE VENT RISERS PRIOR TO VENTING THROUGH ROOF. COORDINATE VTR'S WITH ROOF TOP EQUIPMENT. TYPICAL.
- (J) - ROUTE 3/4" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (K) - ROUTE 1/2" CONDENSATE DRAINS TO NEAREST LAVATORY TAIL PIECE.
- (L) - PROVIDE 3/4" CW WITH SHUT-OFF VALVE TO HOSE BIBB. SEE ARCHITECTURAL PLANS FOR EXACT HOSE BIBB LOCATION AND MOUNTING HEIGHT.
- (M) - PROVIDE 1" CW & 1" HW WITH SHUT-OFF VALVE(S) FOR LAUNDRY.
- (N) - OVERFLOW TO TERMINATE @ UNDERSIDE OF OVERHANG. CONNECT ROOF DRAIN TO DOWNSPOUT. SEE ARCHITECTURAL DETAILS FOR DOWNSPOUT INFORMATION.
- (P) - ROUTE PIPING EXPOSED ON WALL TO HOSE BIBB. PROVIDE SHUT VALVE AT ACCESSIBLE HEIGHT.
- (Q) - PROVIDE 6" ABS WASTE STUB OUT AT 2.0% MIN FOR CONNECTION BY CIVIL.
- (R) - ROUTE DOMESTIC HOT WATER RETURN (HWR) PIPING IN ARCHITECTURAL SOFFIT. SEE DETAIL 7/P6.1.

RISER DETAILS:

- SEE SHEET FOR DOMESTIC WATER RISER DIAGRAMS
- = RISER LETTER (ALPHABETIC)
- SEE SHEET FOR WASTE/VENT RISER DIAGRAMS
- = RISER NUMBER (NUMERICAL)



KING+PARKS MULTI-FAMILY RESIDENCES
 PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

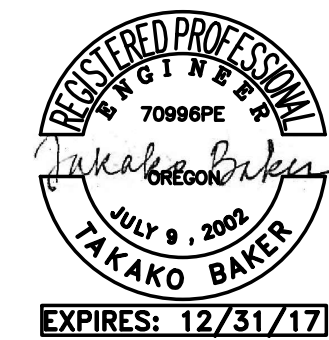
MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753
 www.merrymanbarnesarchitects.com



PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET
 PLUMBING ROOF PLAN - NORTH
P2.4B

PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

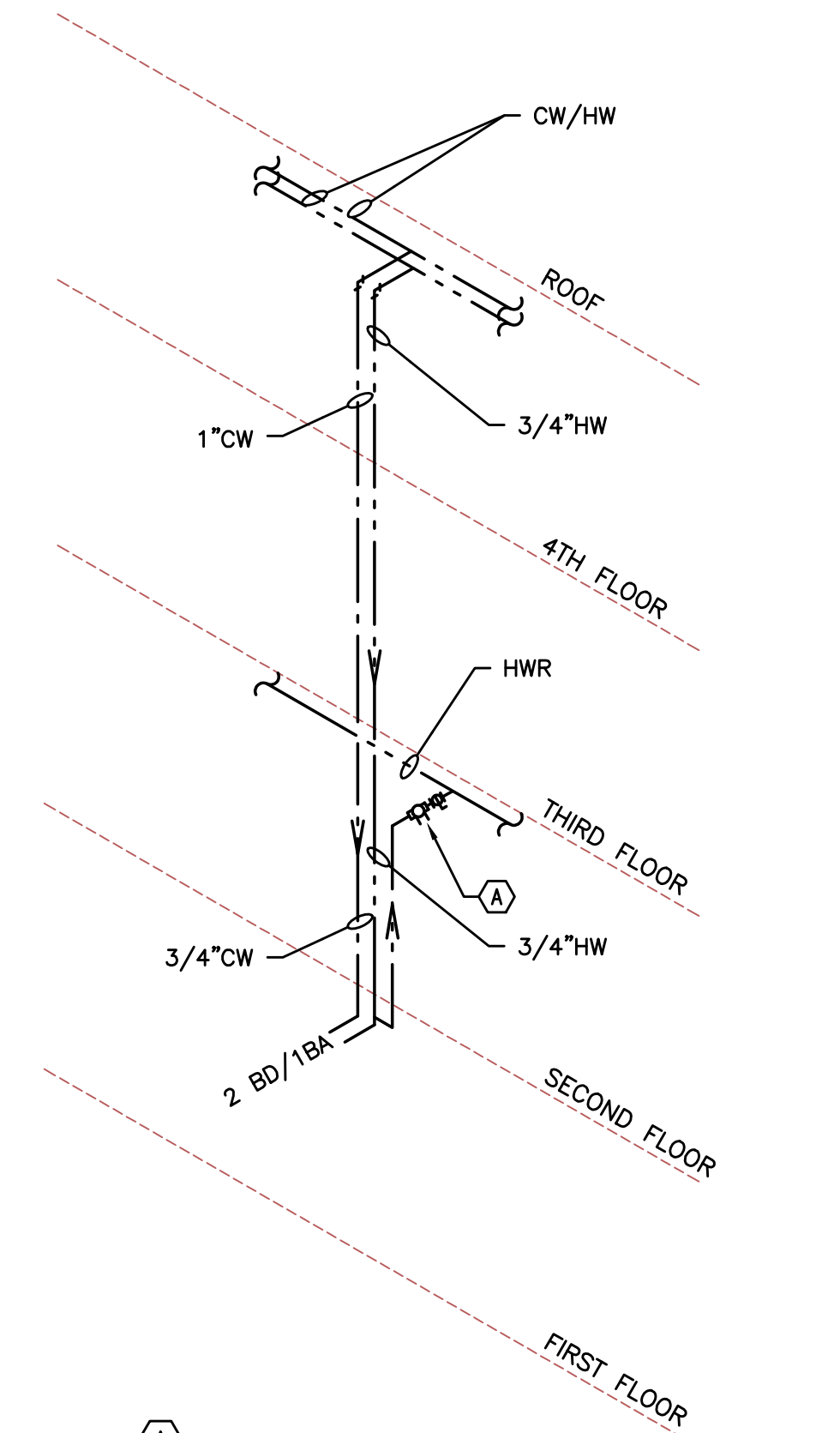


KING+PARKS MULTI-FAMILY RESIDENCES

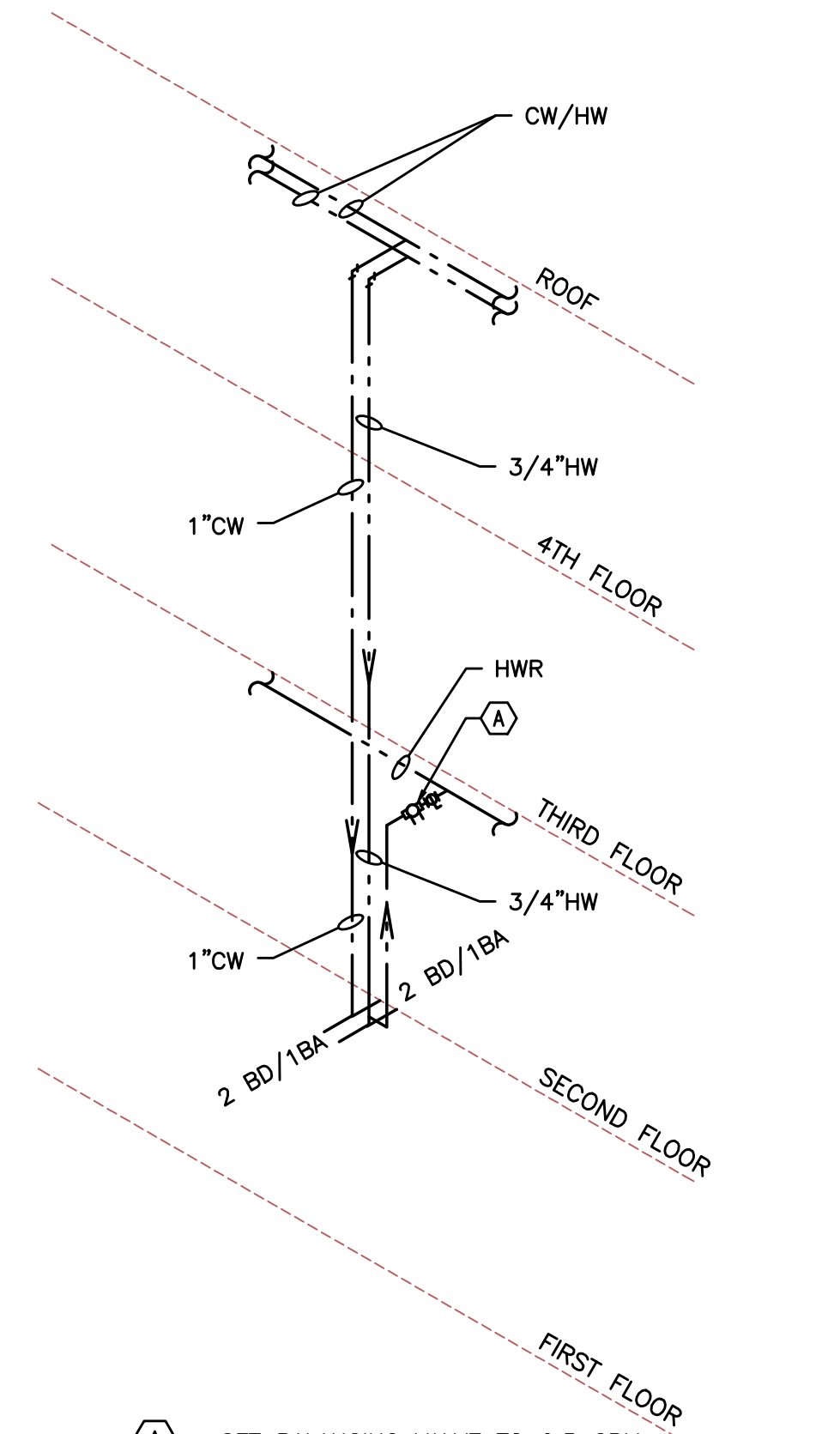
PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602
ISSUE DATE 11.15.2017

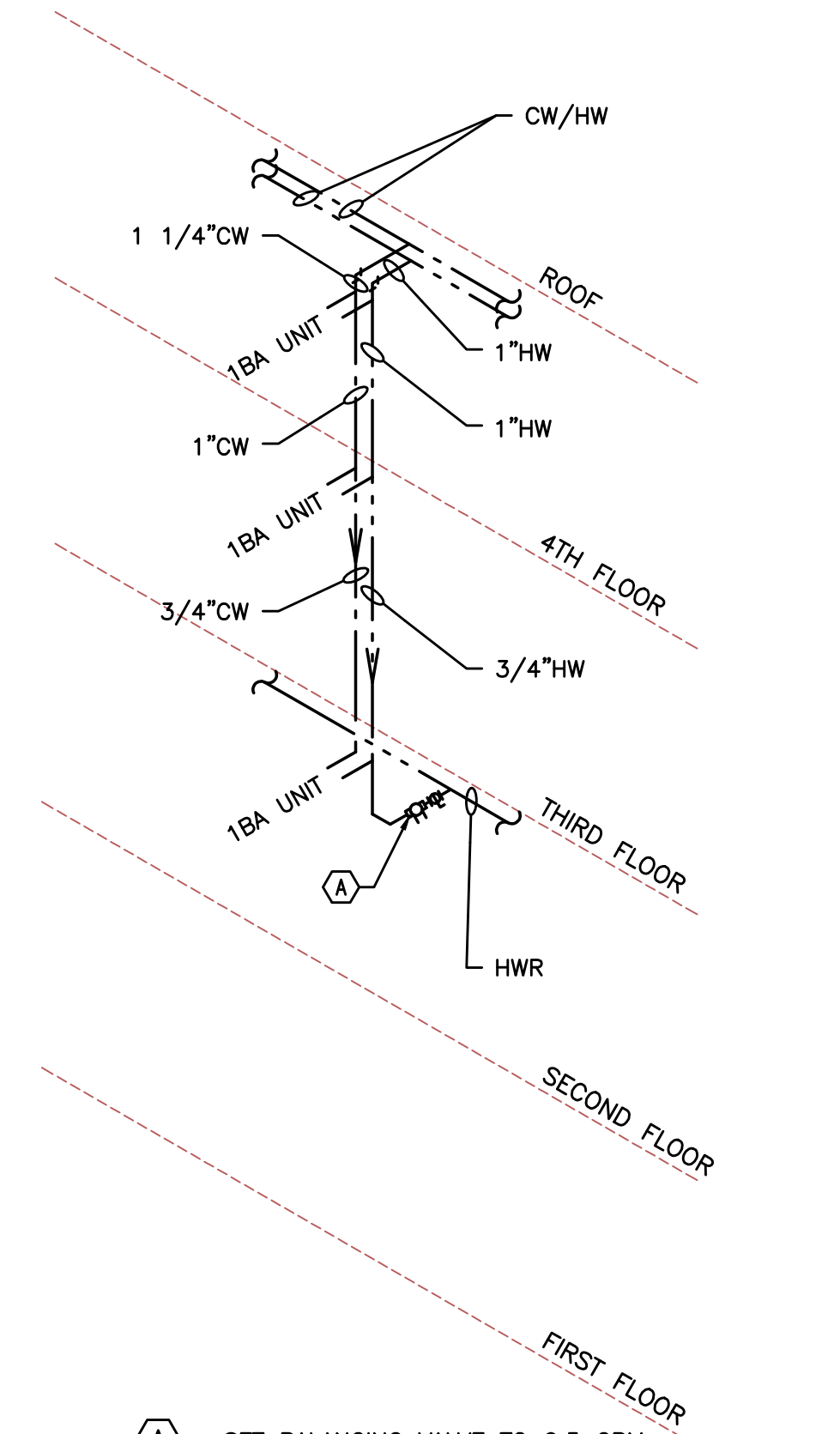
SHEET DOMESTIC WATER RISERS
P4.0
PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.



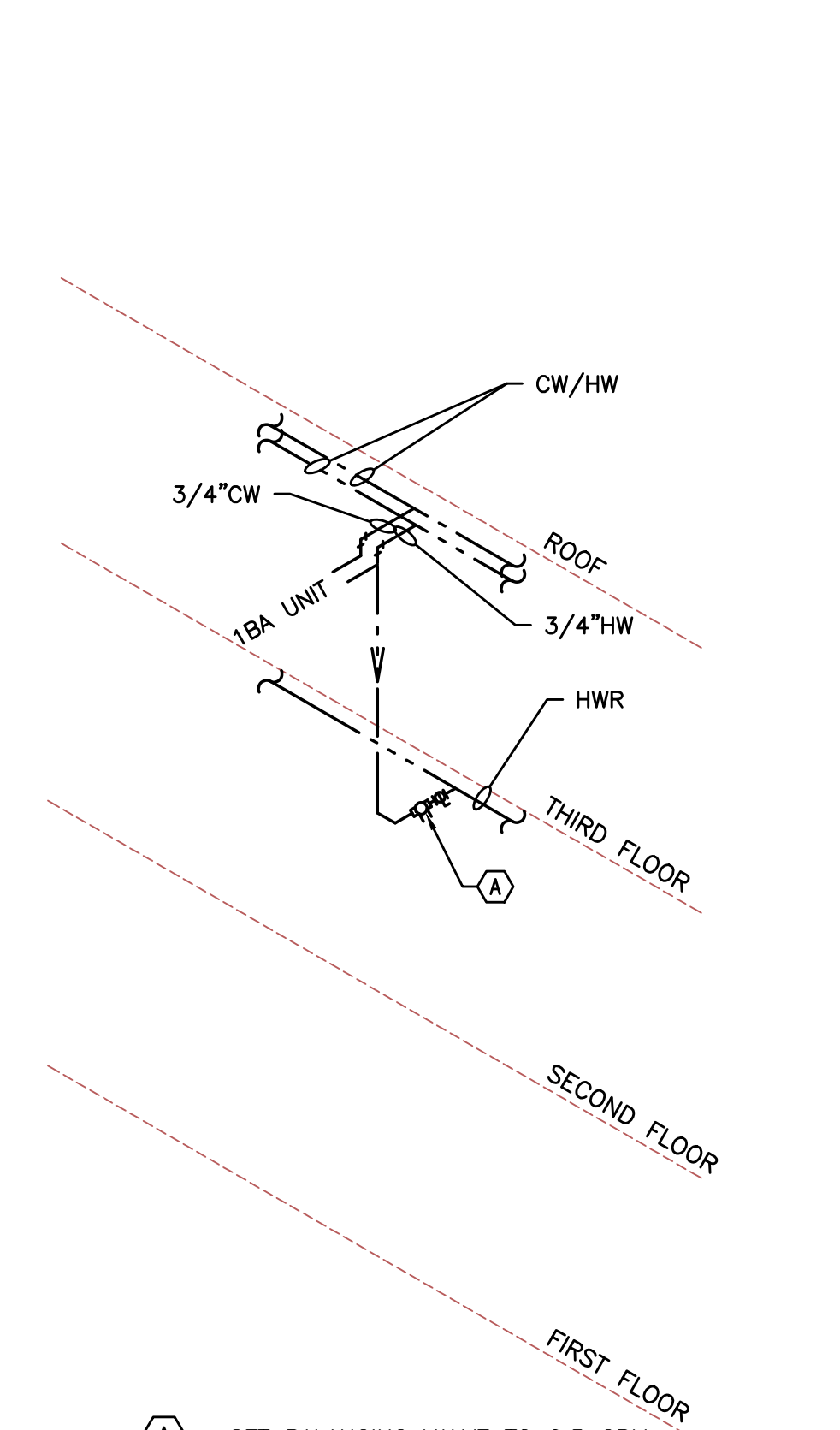
1 RISER "A" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



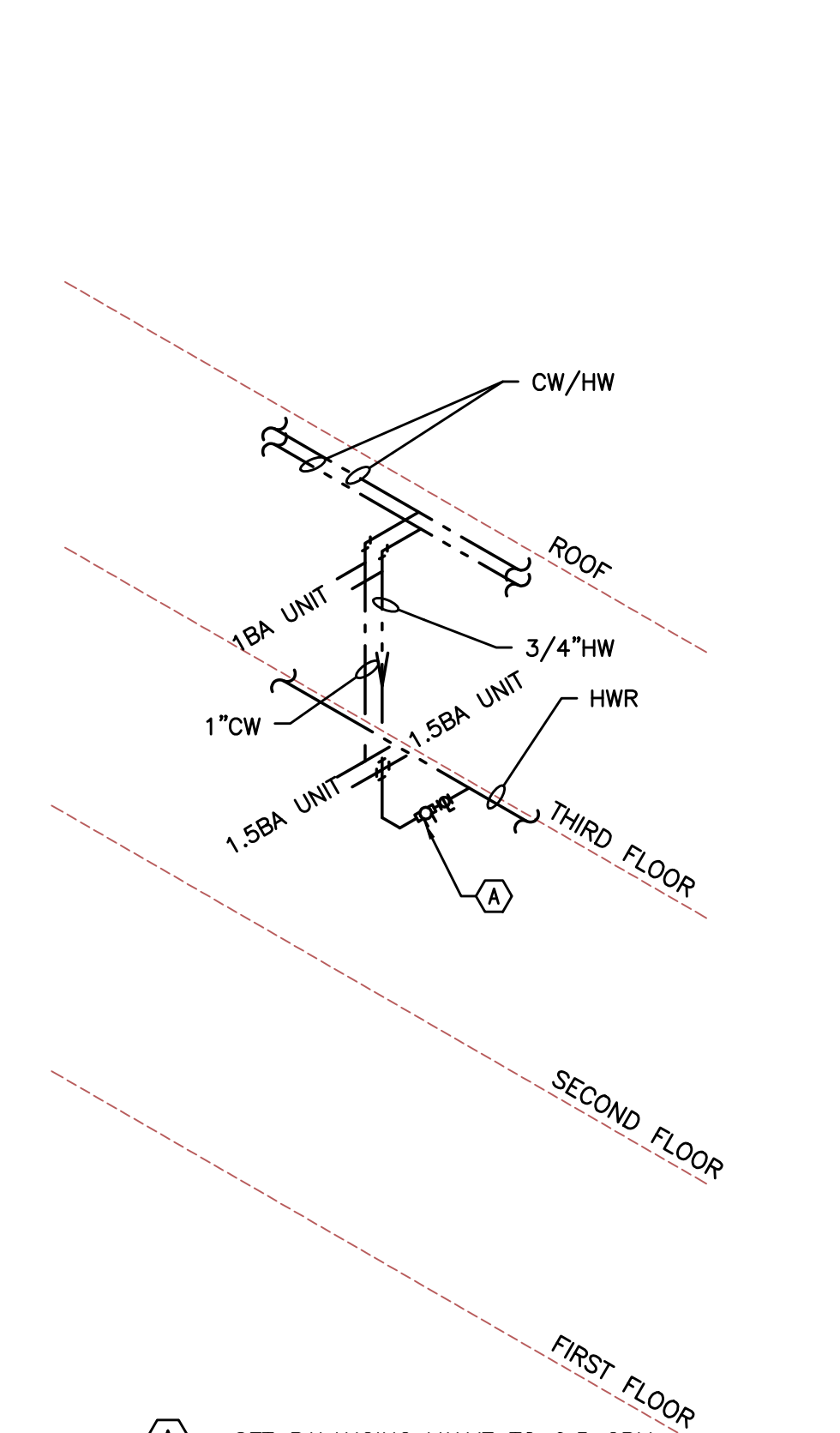
2 RISER "B" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



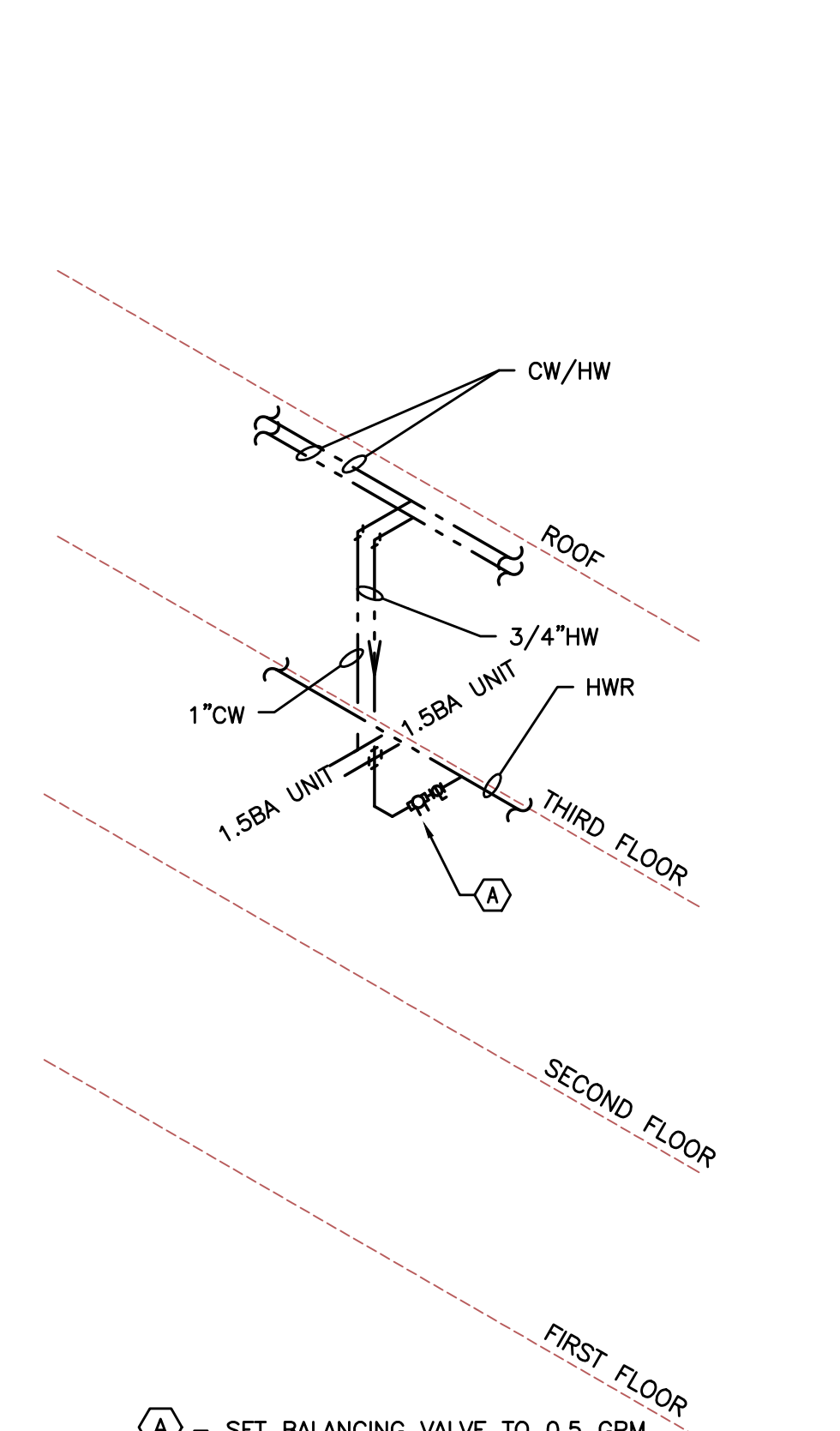
3 RISER "C" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



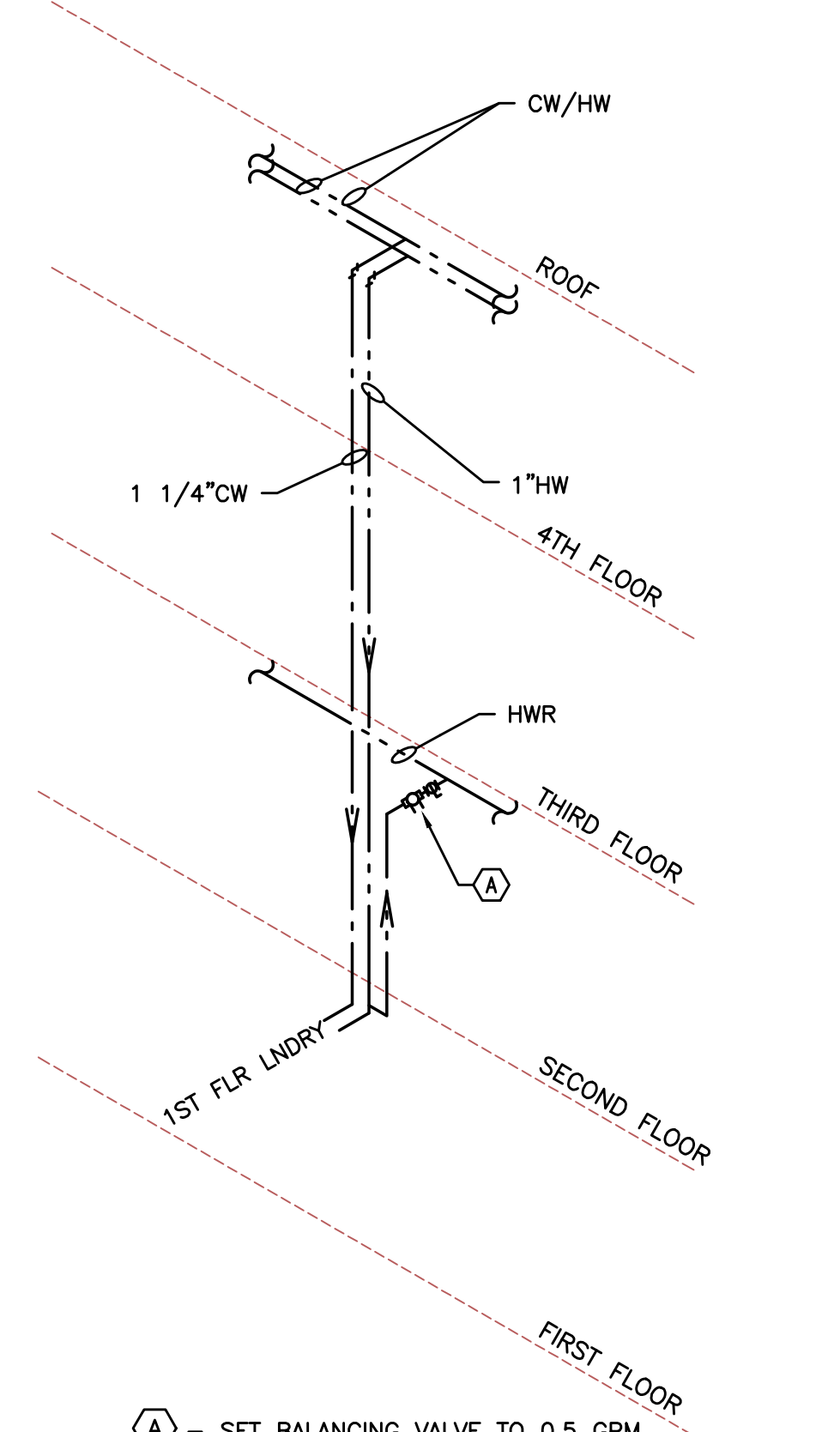
4 RISER "D" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



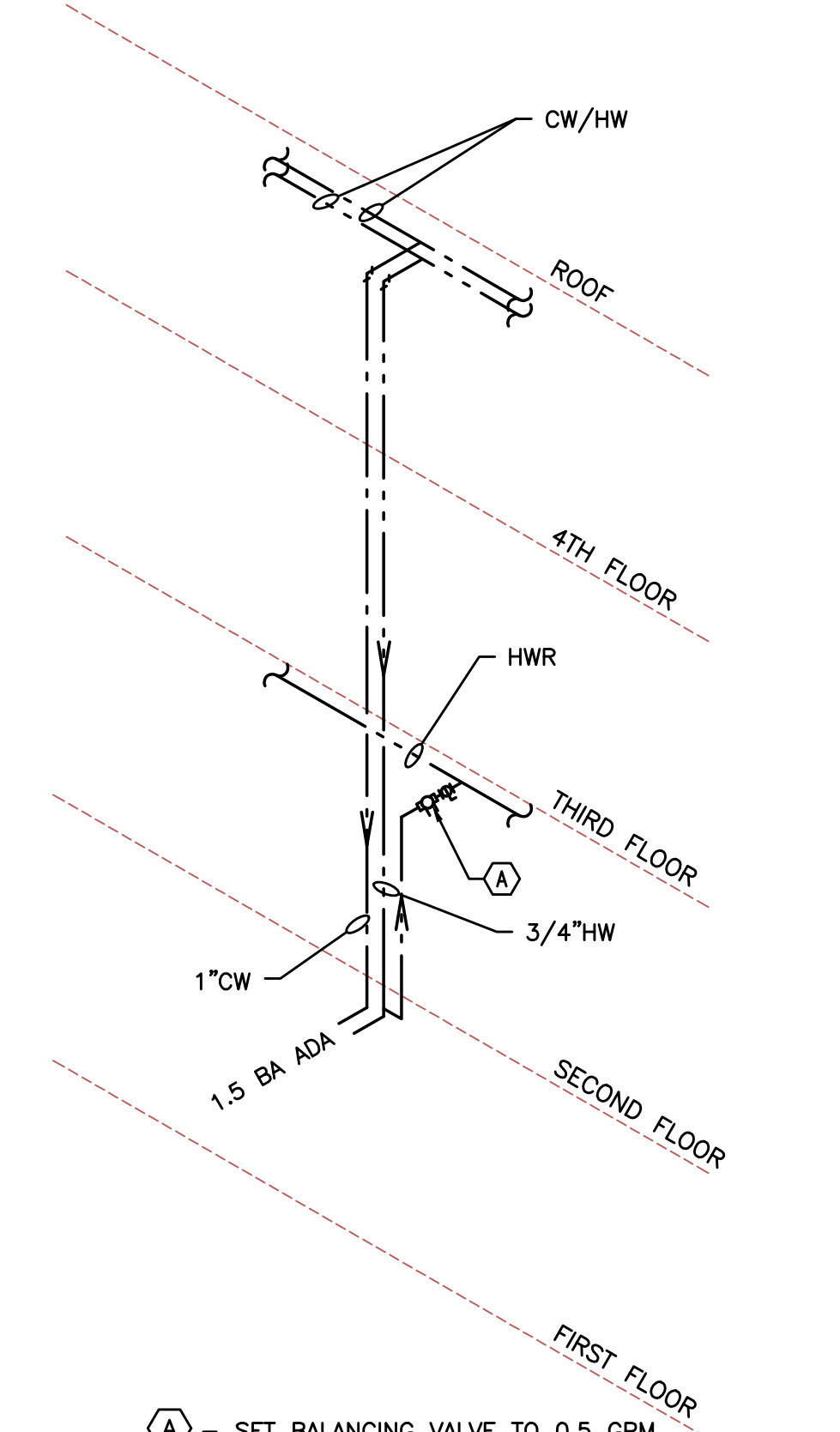
5 RISER "E" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



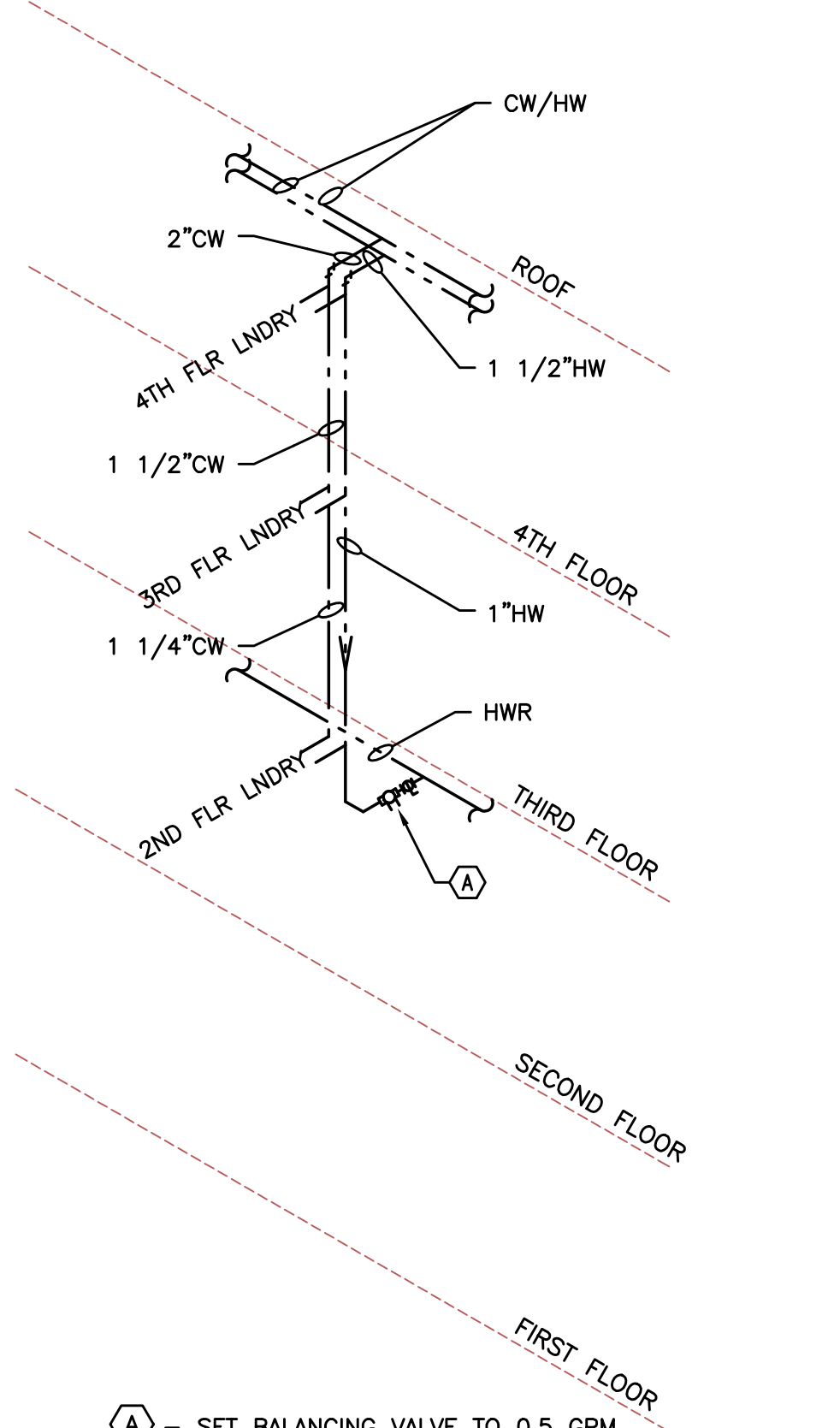
6 RISER "F" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



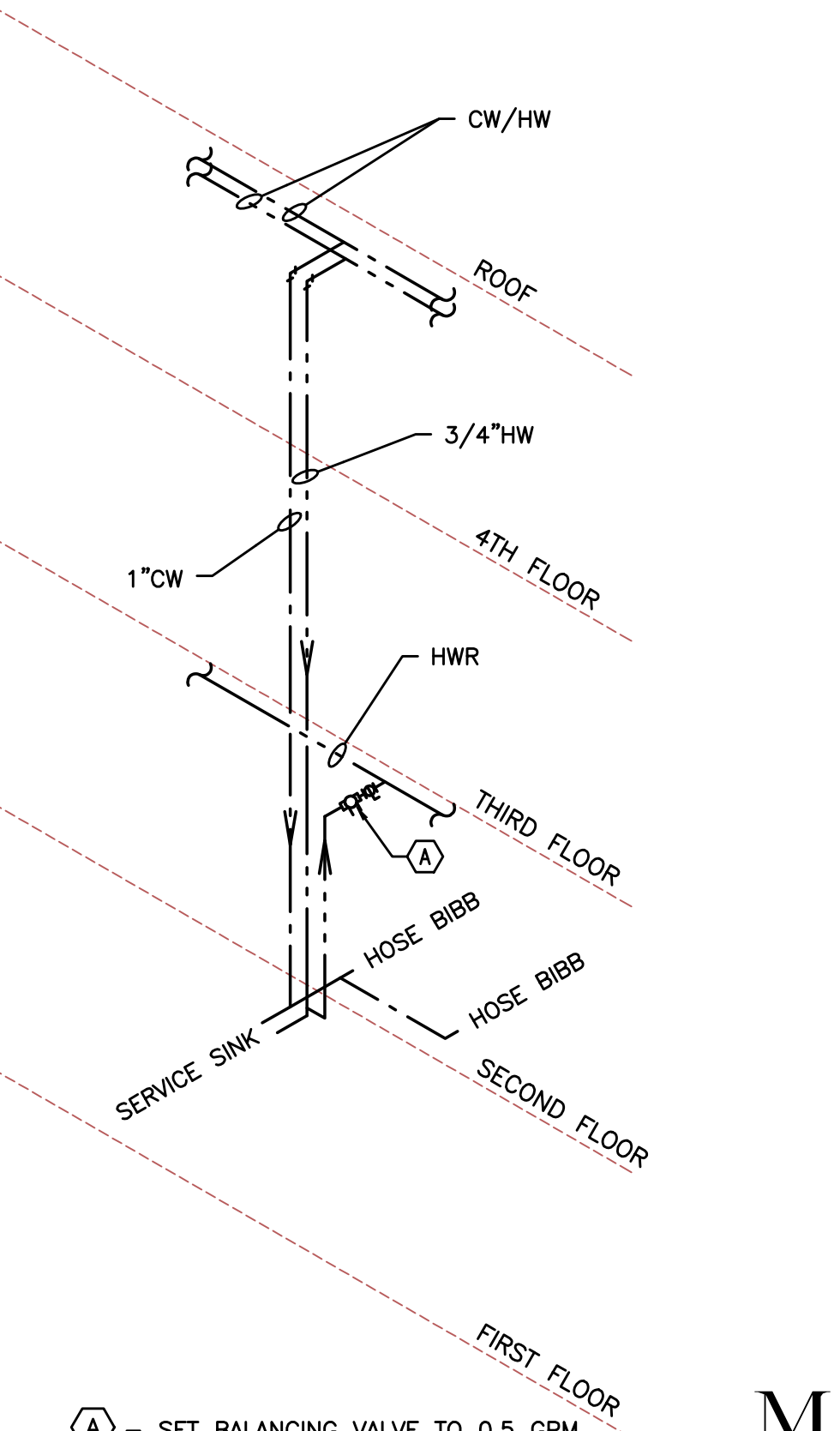
7 RISER "G" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



8 RISER "H" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



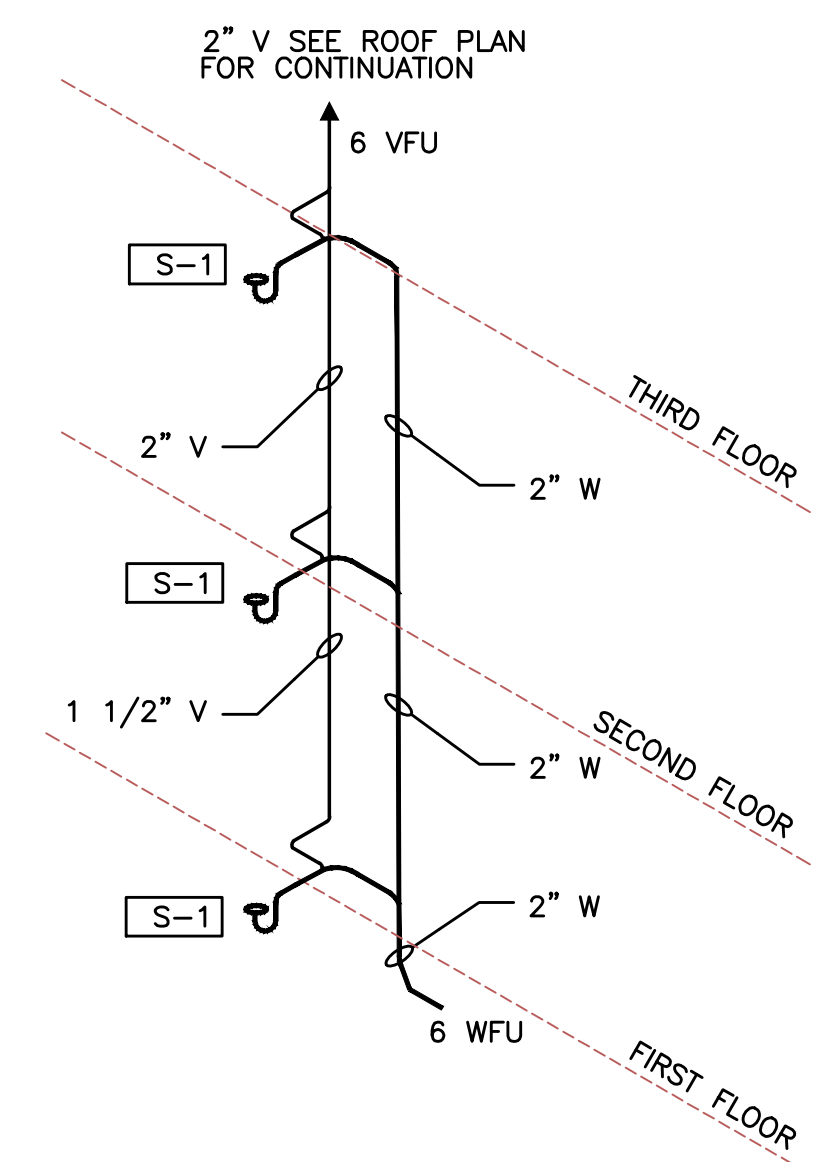
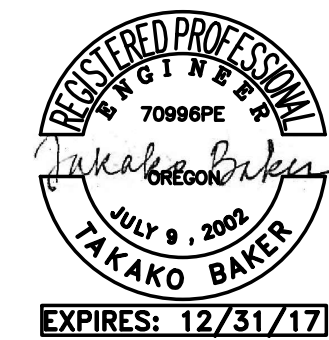
9 RISER "J" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.



10 RISER "K" TYPICAL
P4.0 NOT TO SCALE
A - SET BALANCING VALVE TO 0.5 GPM.
B - BALANCING VALVE TO BE GRISWALD AUTOMATIC CONTROL VALVE, "K" SERIES.

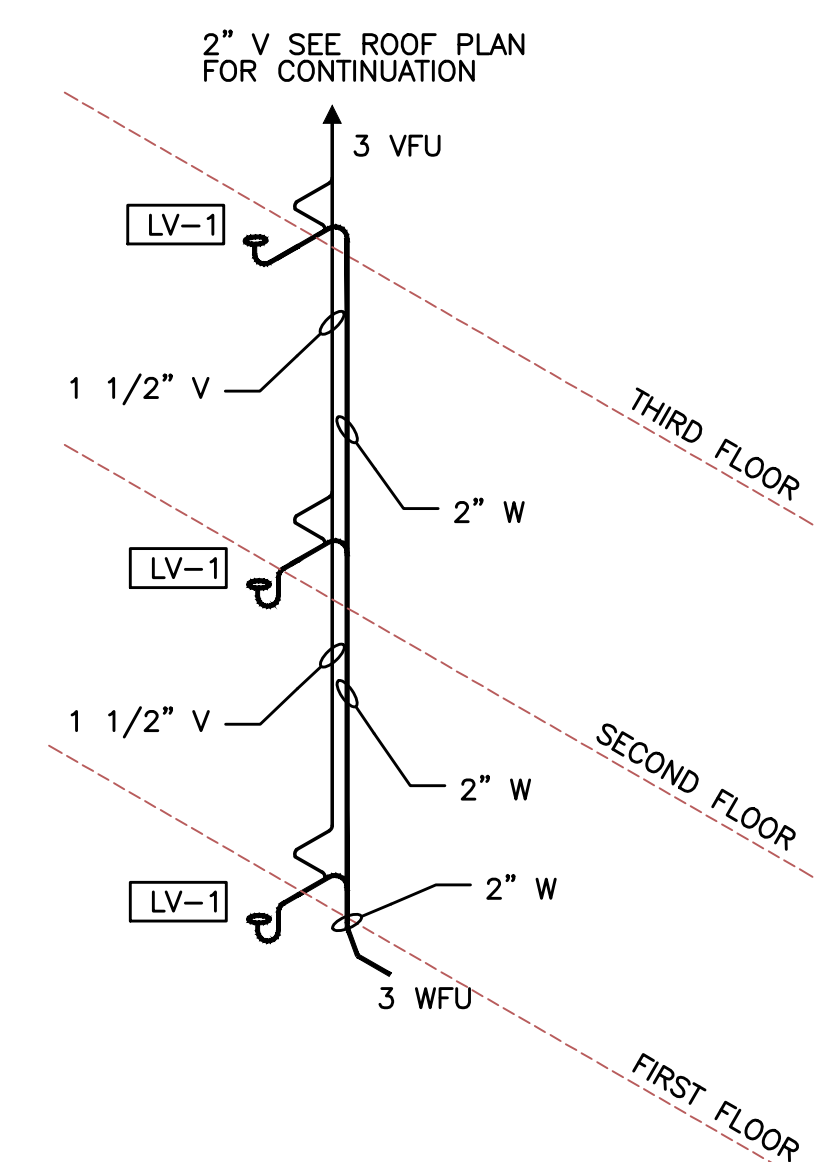
MERRYMAN BARNES ARCHITECTS
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
WWW.MBIA-ENG.COM
CONTACT: Takako Baker

MBA
MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.232.3753
www.merrymanbarnesarchitects.com

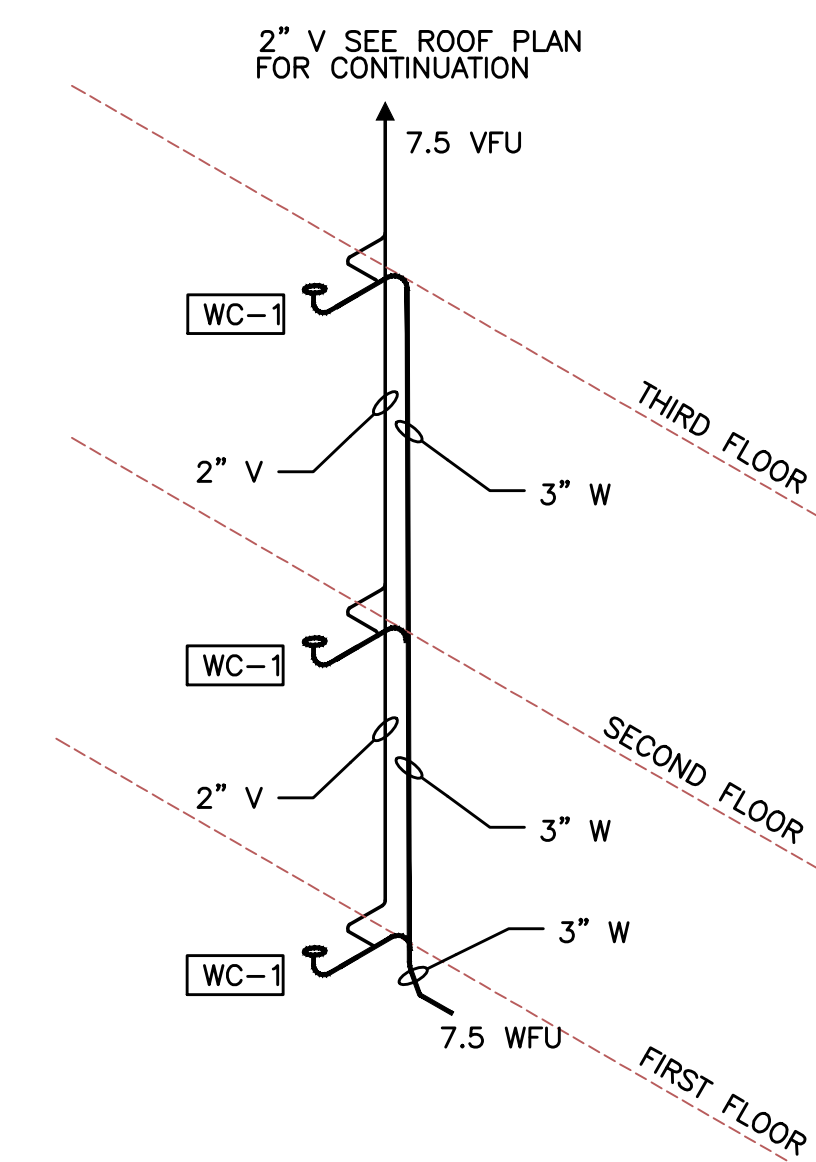


1 RISER "1" TYPICAL
P5.0 NOT TO SCALE

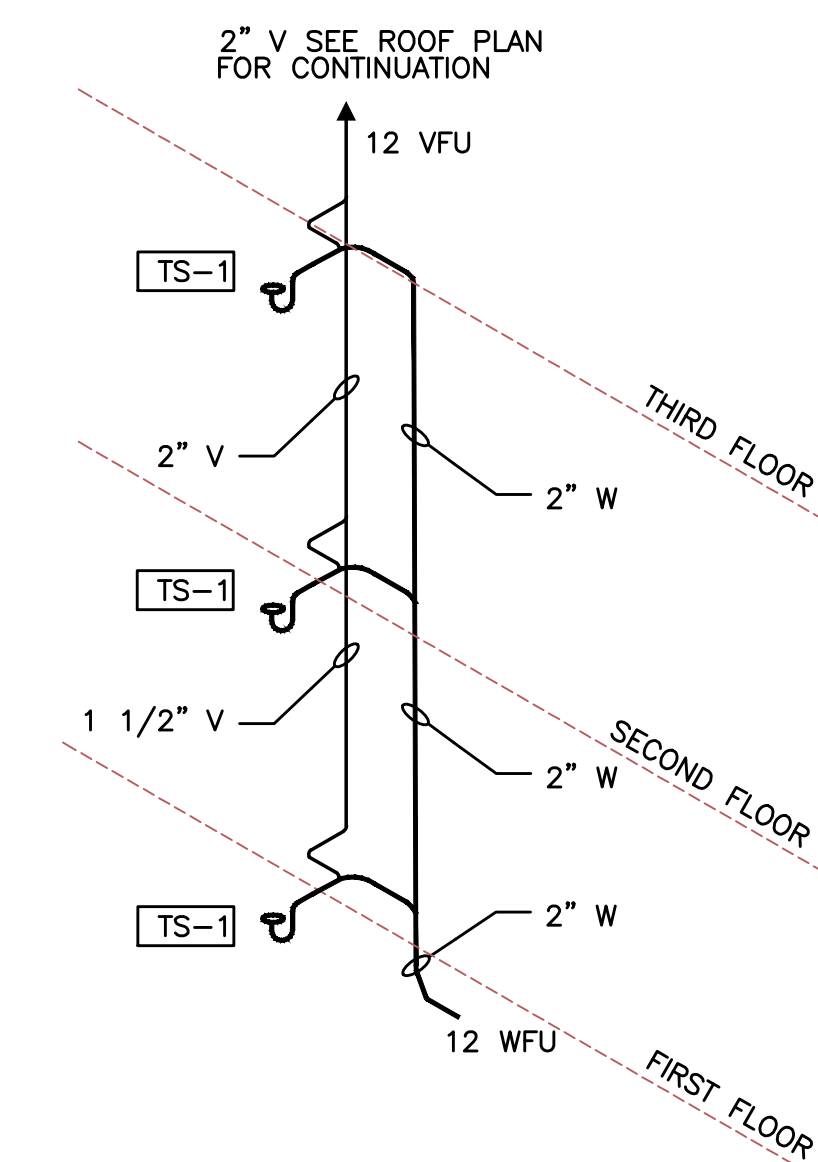
NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.



2 RISER "2" TYPICAL
P5.0 NOT TO SCALE

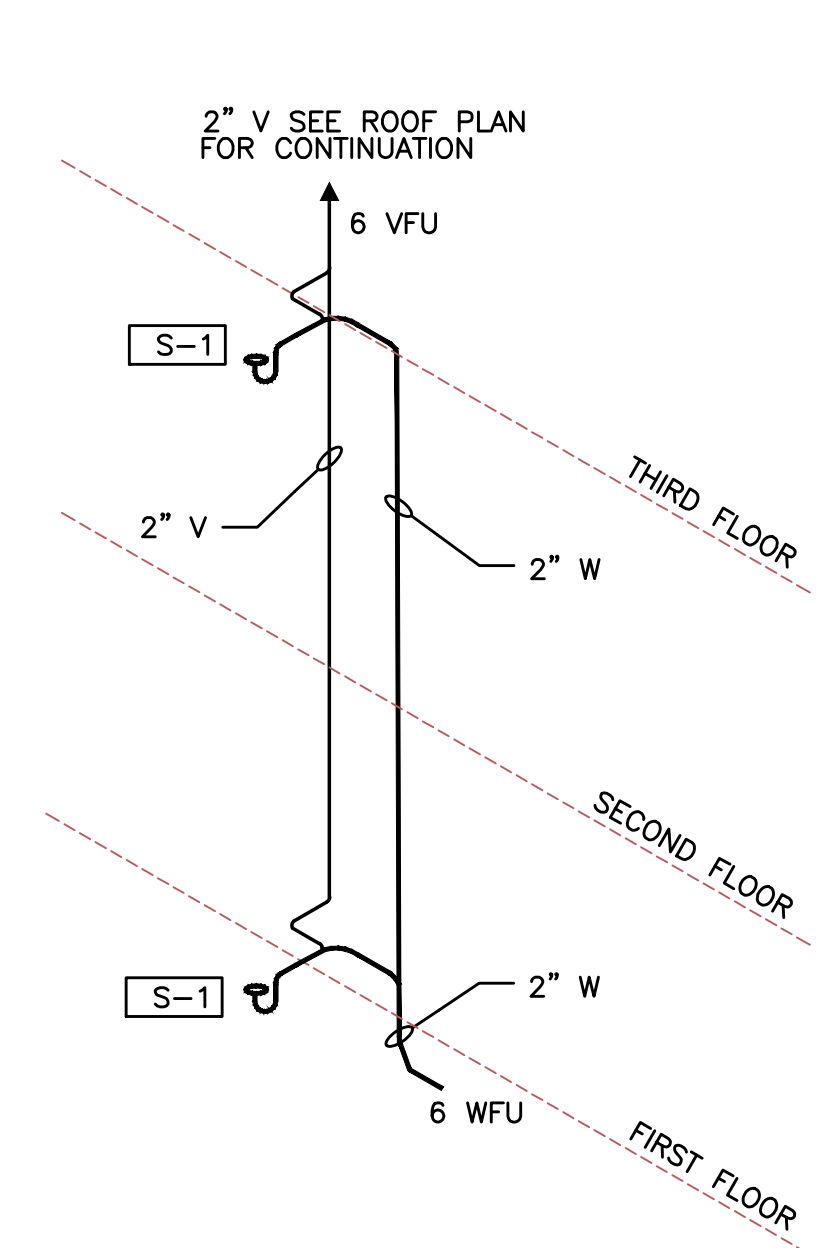


3 RISER "3" TYPICAL
P5.0 NOT TO SCALE

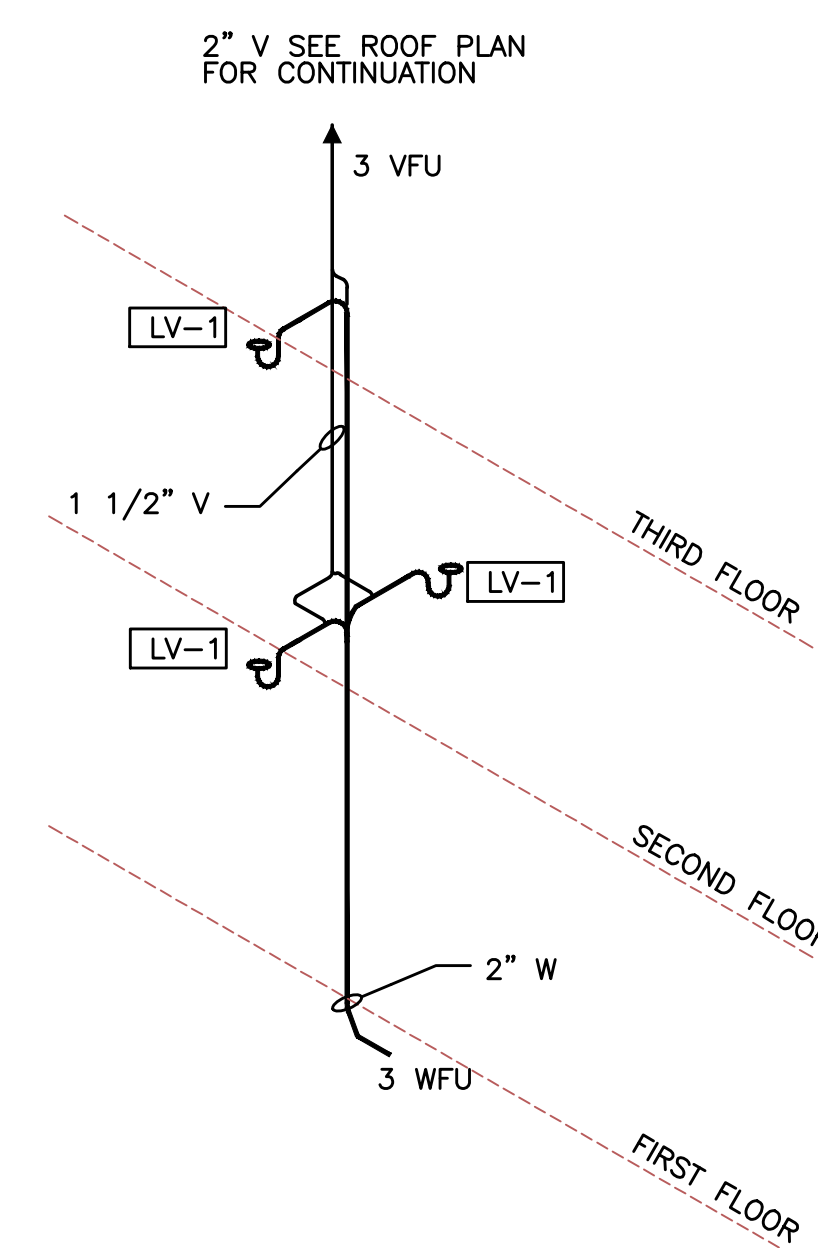


4 RISER "4" TYPICAL
P5.0 NOT TO SCALE

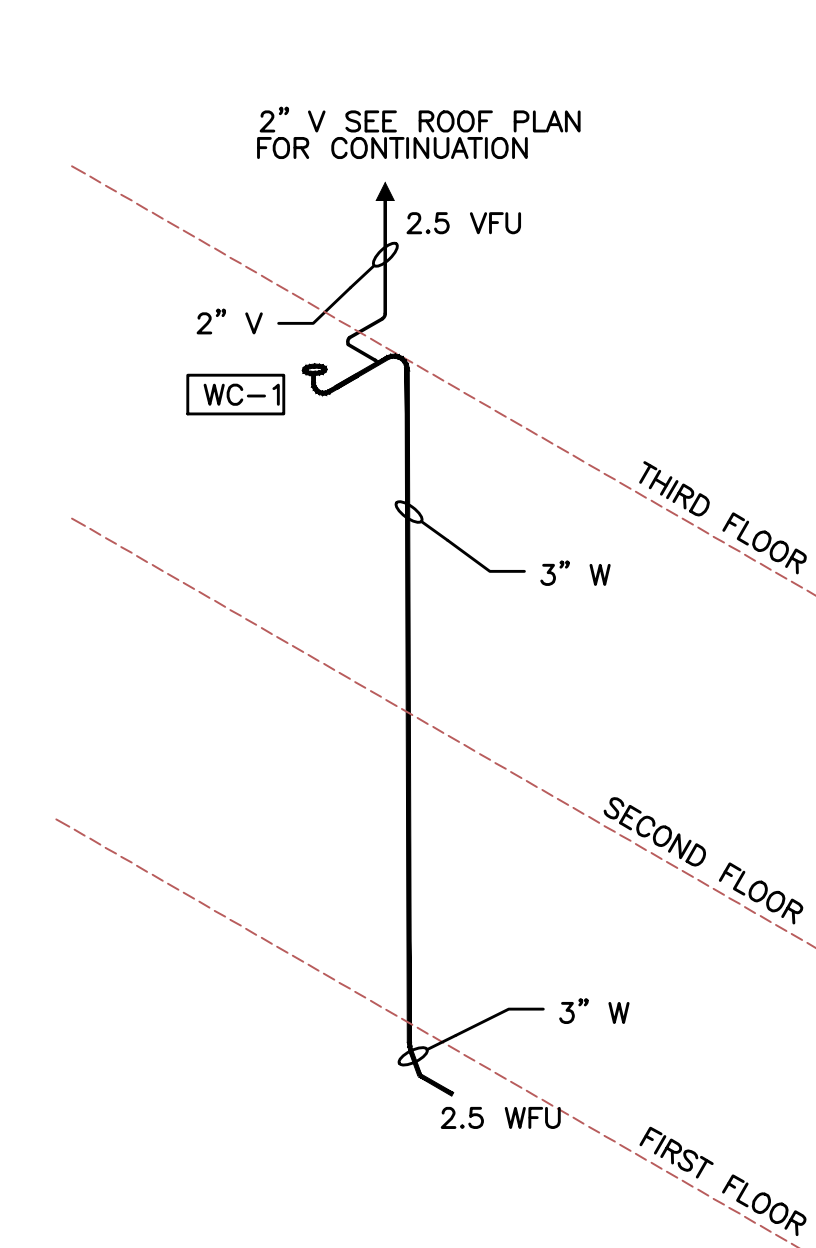
NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.



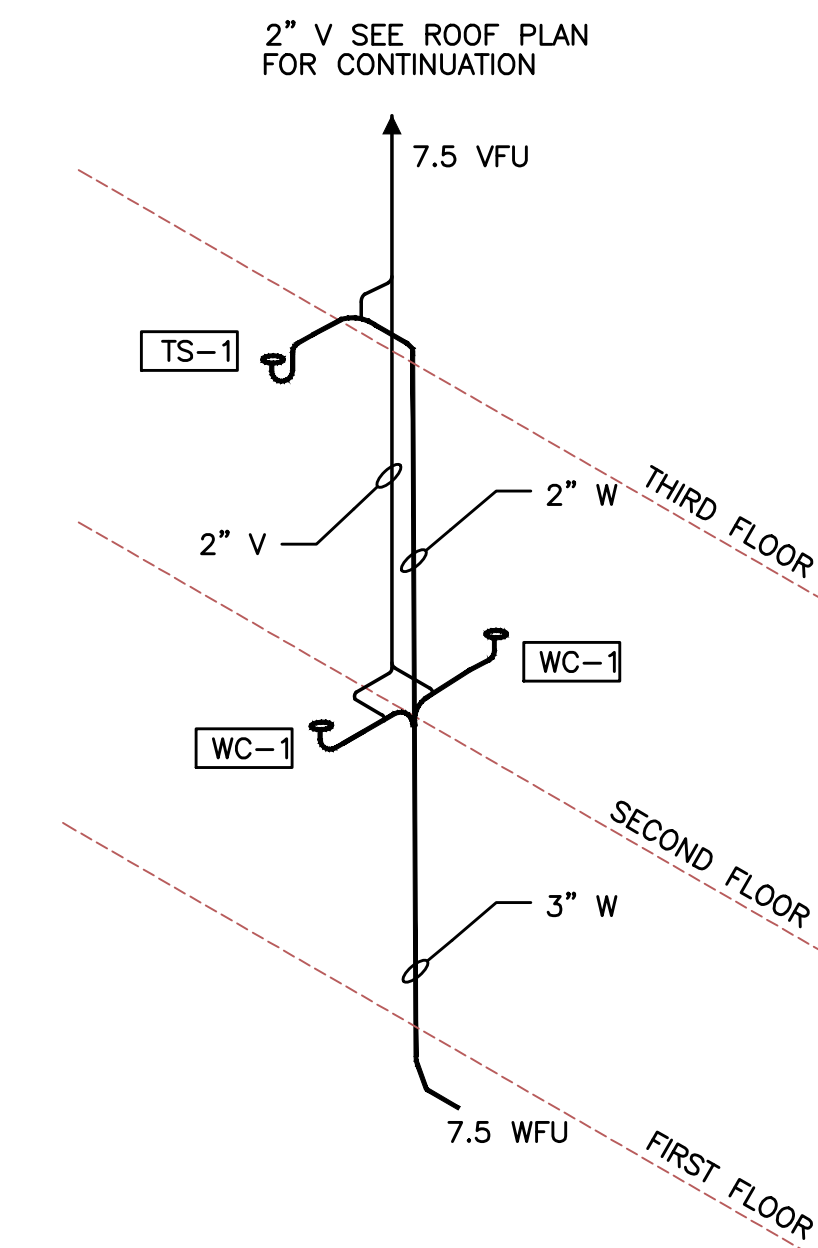
5 RISER "5" TYPICAL
P5.0 NOT TO SCALE



6 RISER "6" TYPICAL
P5.0 NOT TO SCALE



7 RISER "7" TYPICAL
P5.0 NOT TO SCALE



8 RISER "8" TYPICAL
P5.0 NOT TO SCALE

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211



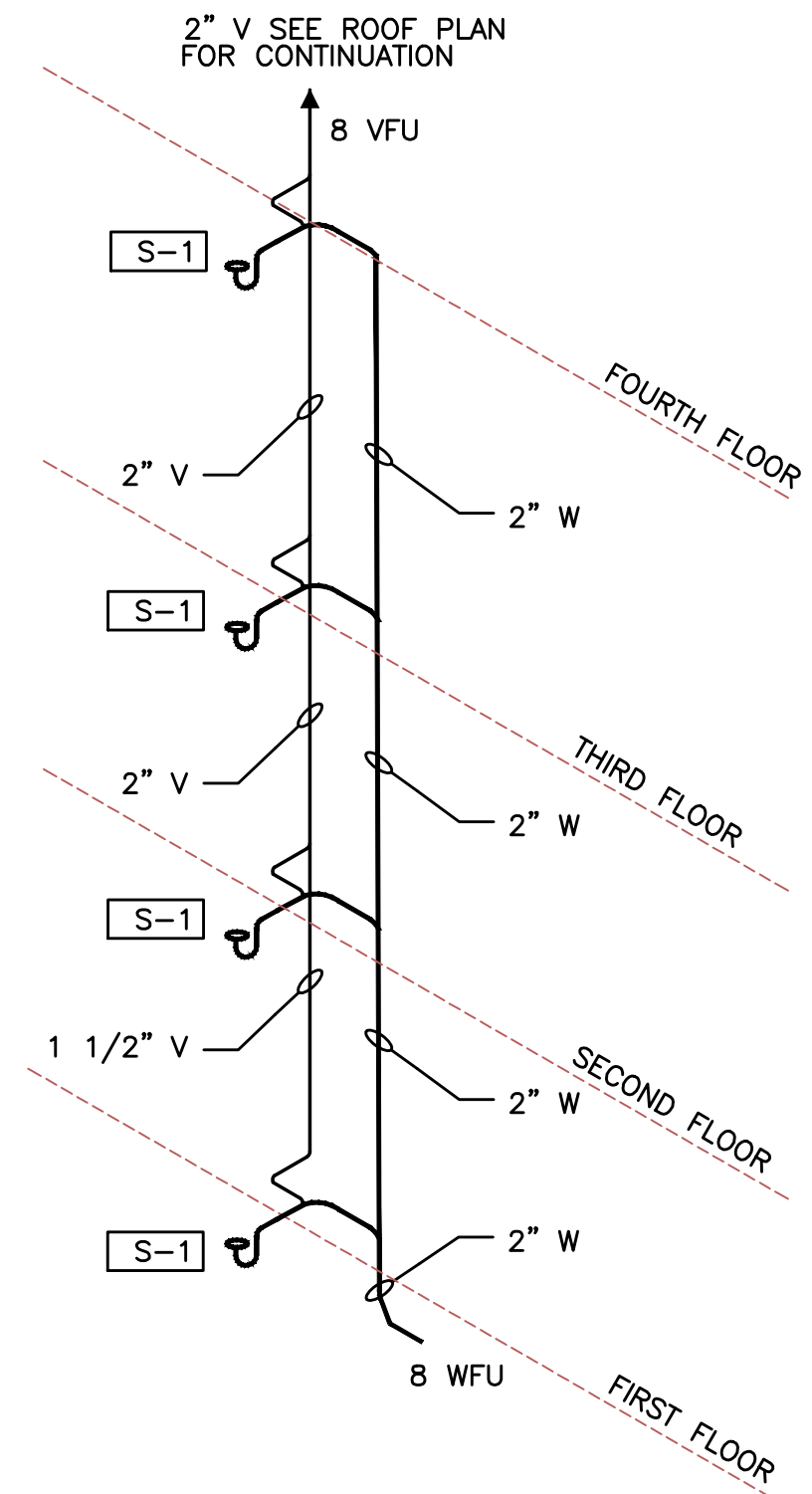
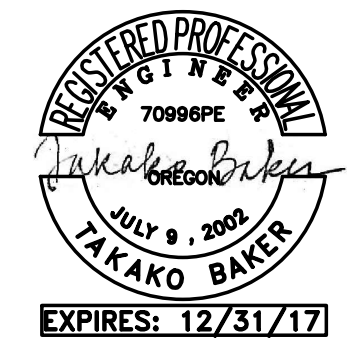
PROJECT NO. 16-0602
ISSUE DATE 11.15.2017

WASTE/VENT RISERS
P5.0

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

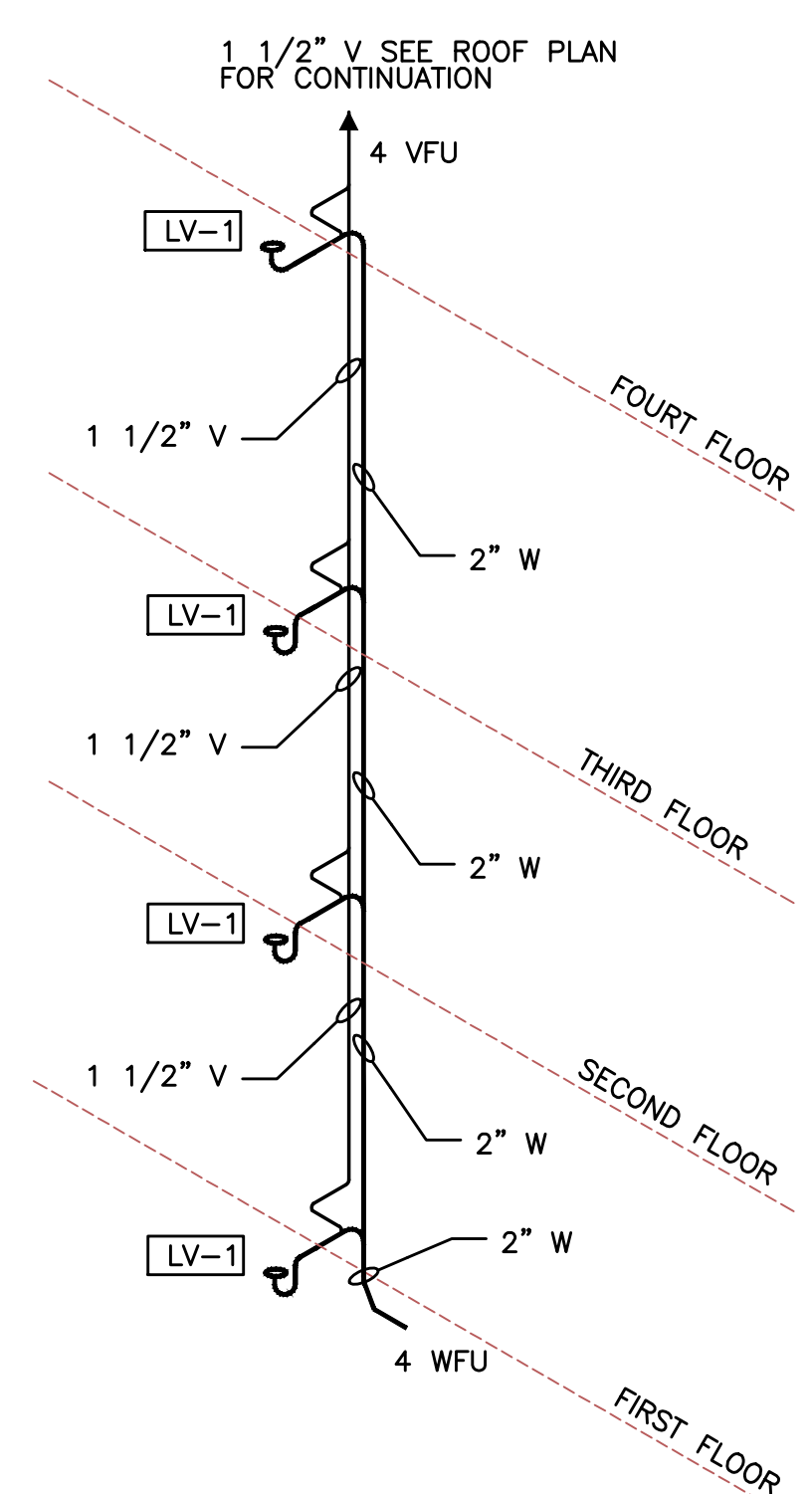
Merryman Barnes Architects
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MBA-ENG.COM
CONTACT: Takako Baker

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.232.3753 WWW.MERRYMANBARNESARCHITECTS.COM

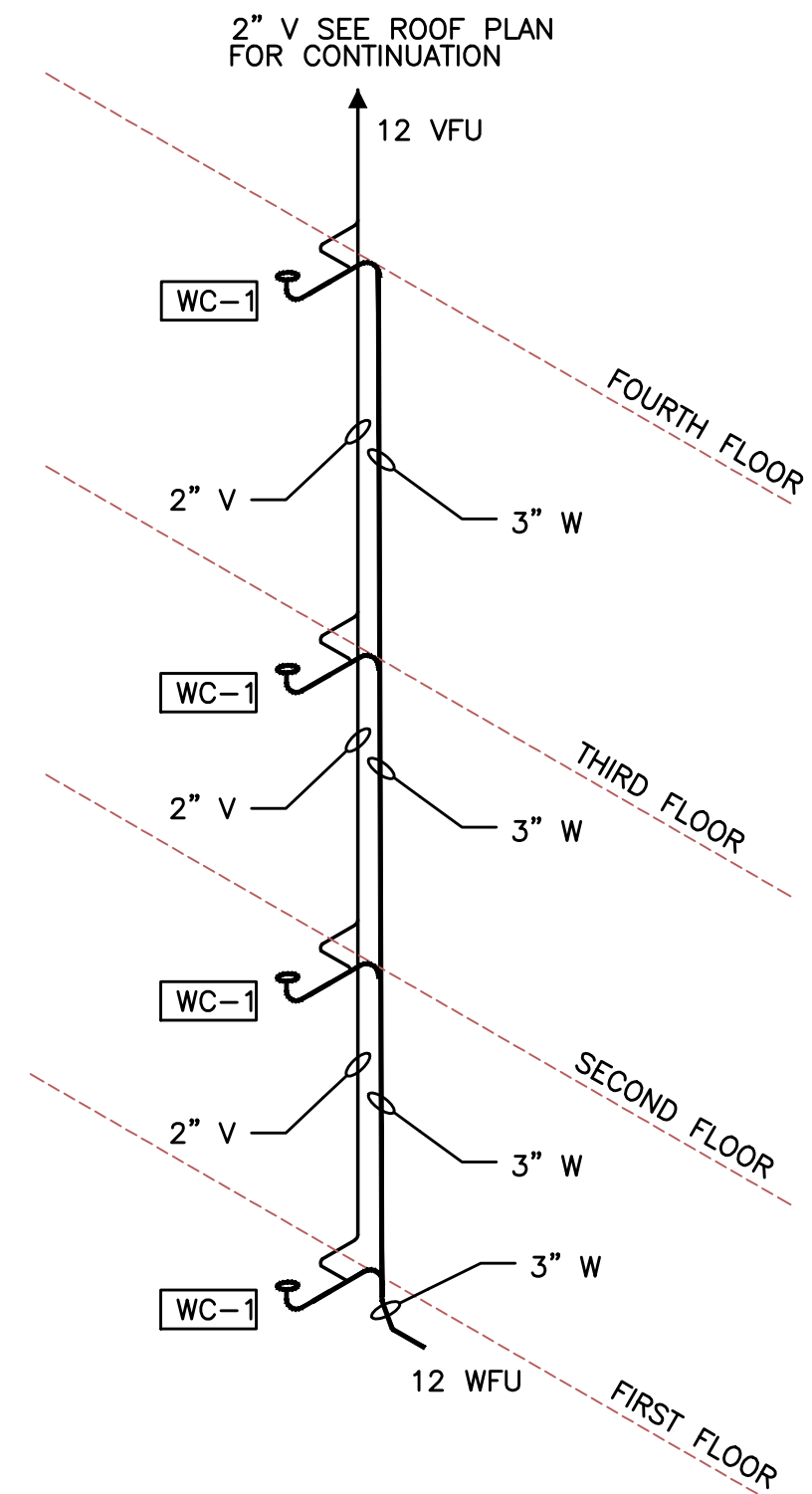


1 RISER "9" TYPICAL
P5.1 NOT TO SCALE

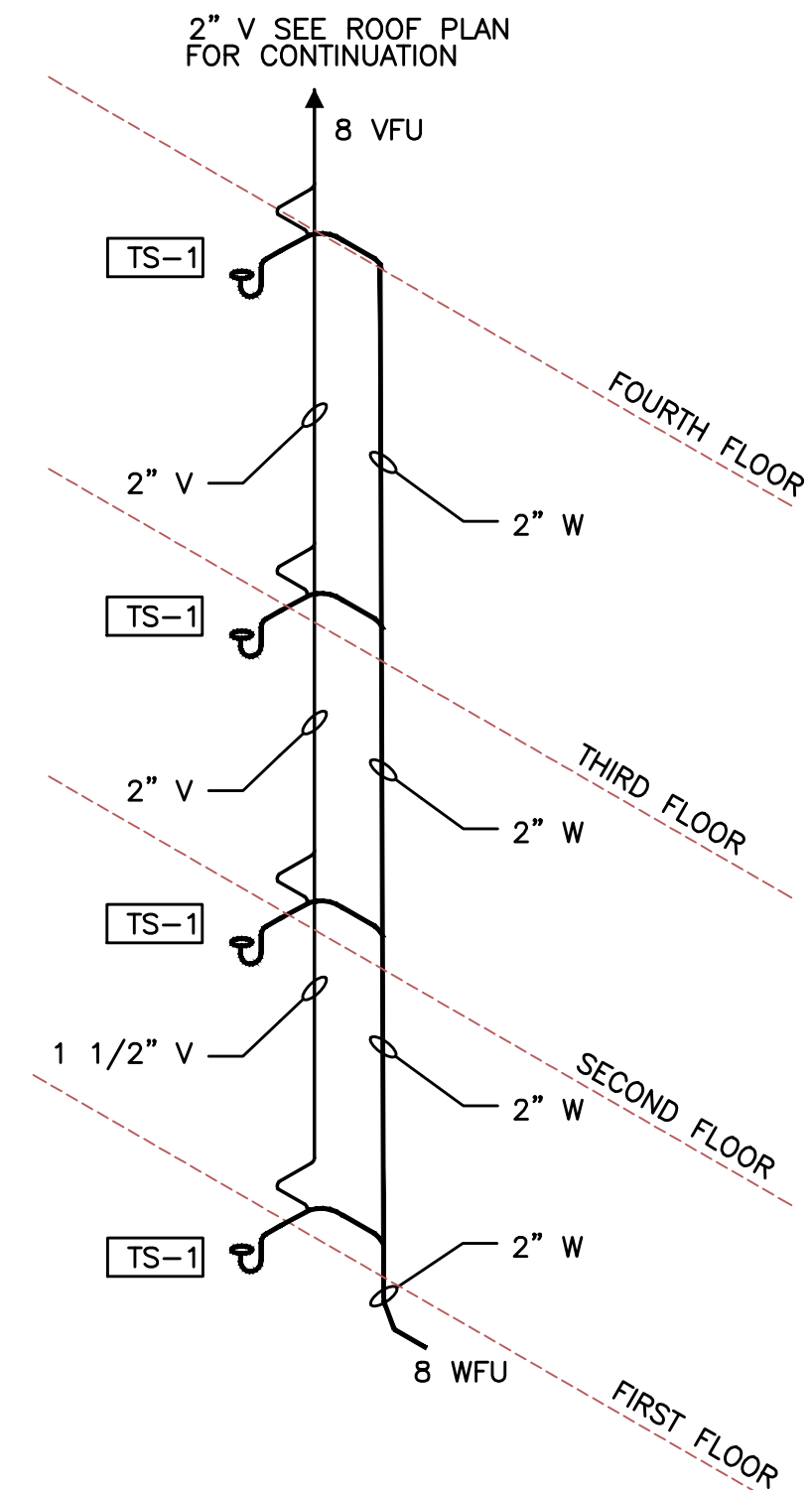
NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.



2 RISER "10" TYPICAL
P5.1 NOT TO SCALE

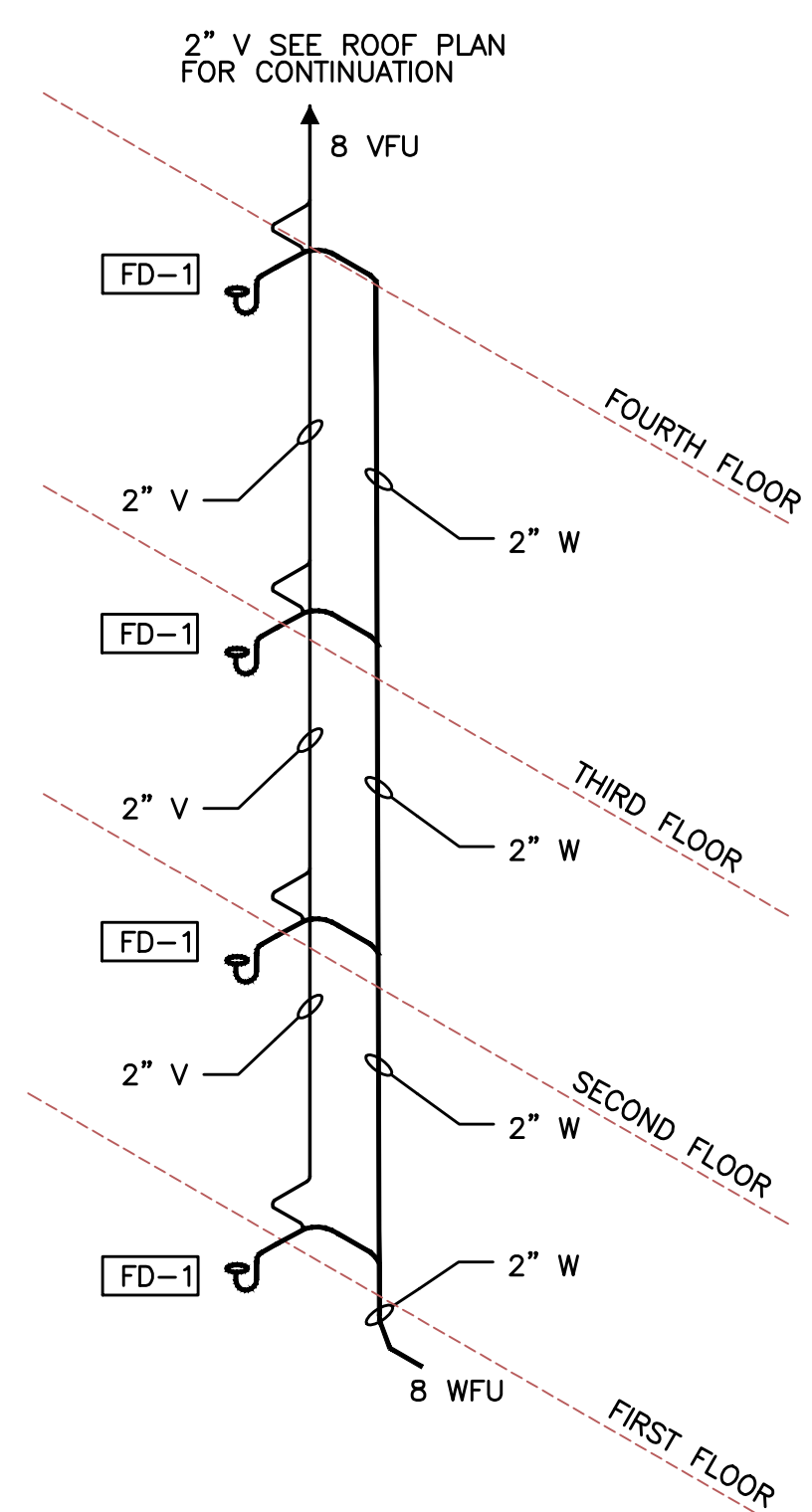


3 RISER "11" TYPICAL
P5.1 NOT TO SCALE

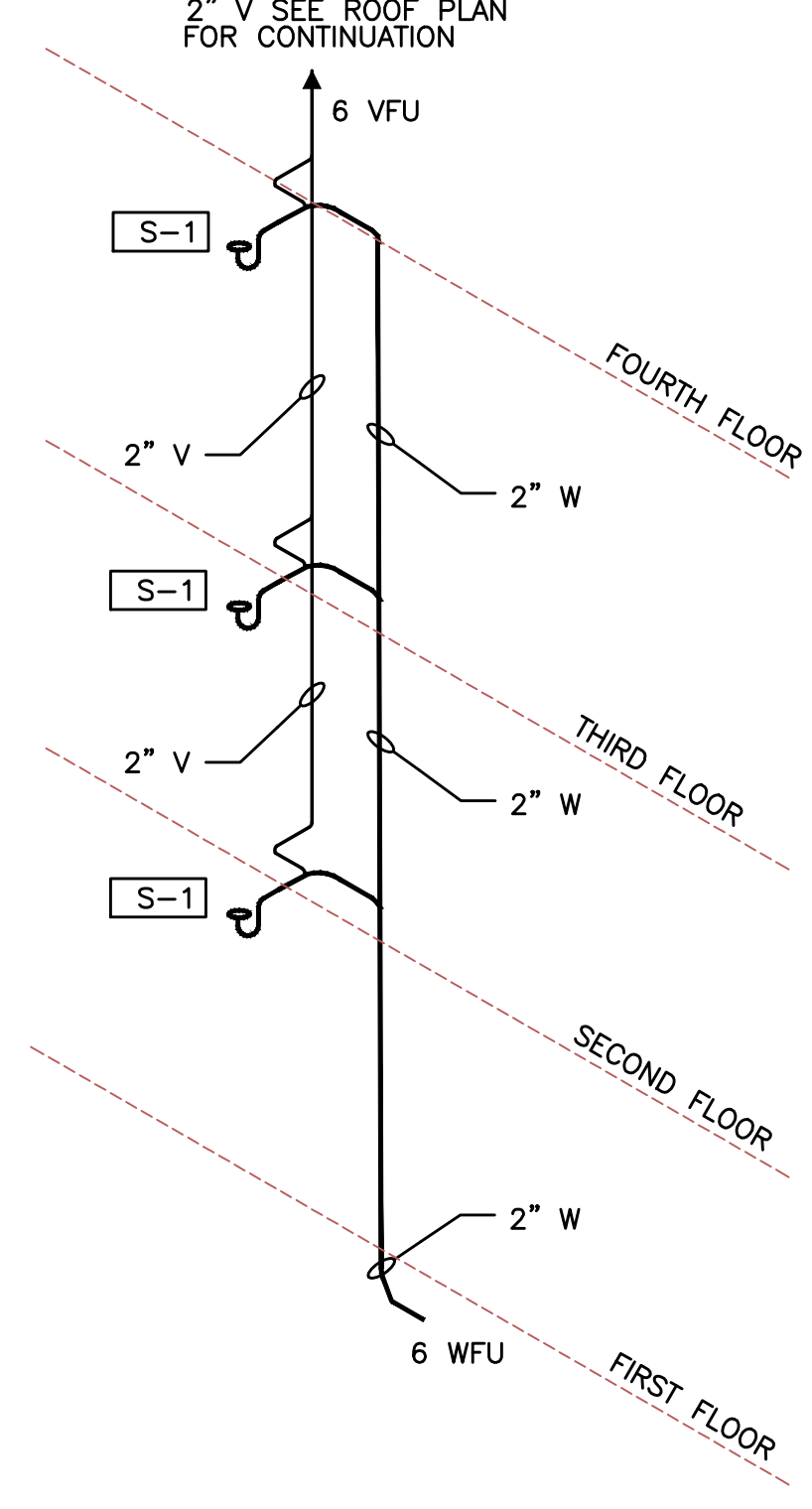


4 RISER "12" TYPICAL
P5.1 NOT TO SCALE

NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.

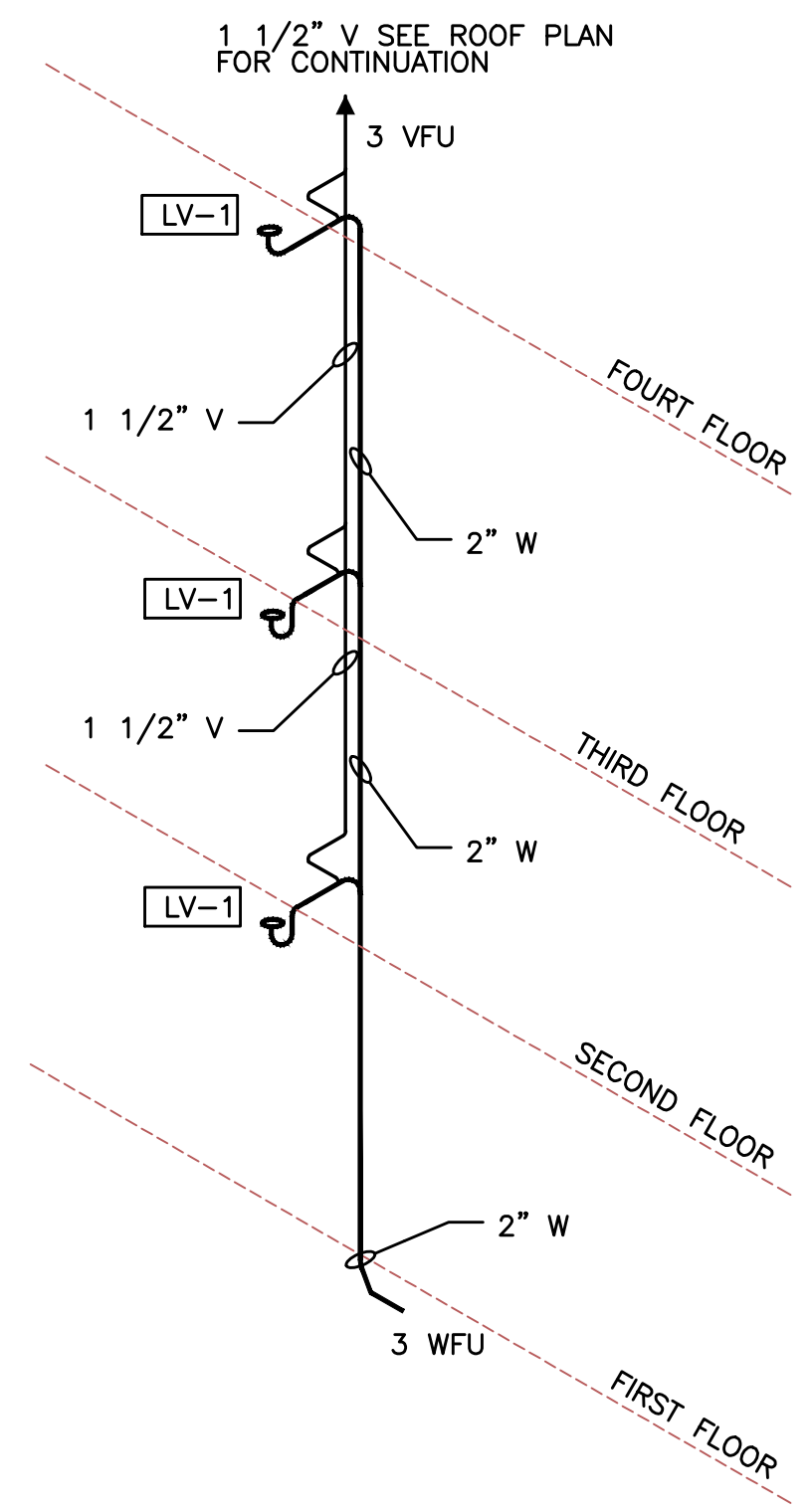


5 RISER "13" TYPICAL
P5.1 NOT TO SCALE

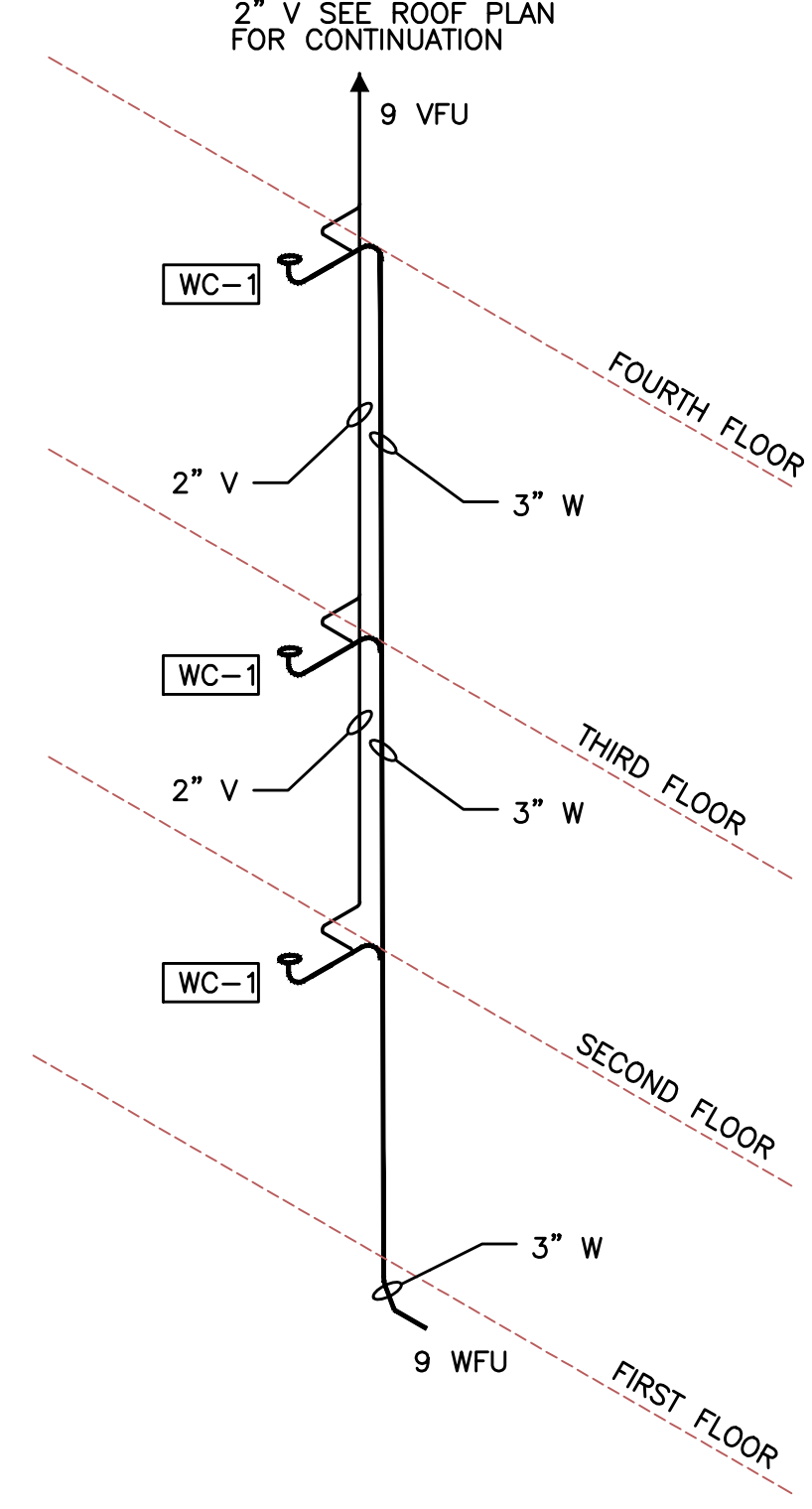


6 RISER "14" TYPICAL
P5.1 NOT TO SCALE

NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.



7 RISER "15" TYPICAL
P5.1 NOT TO SCALE



8 RISER "16" TYPICAL
P5.1 NOT TO SCALE

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
INC. WWW.MFI-ENG.COM
CONTACT: Takako Baker

KING+PARKS MULTI-FAMILY RESIDENCES

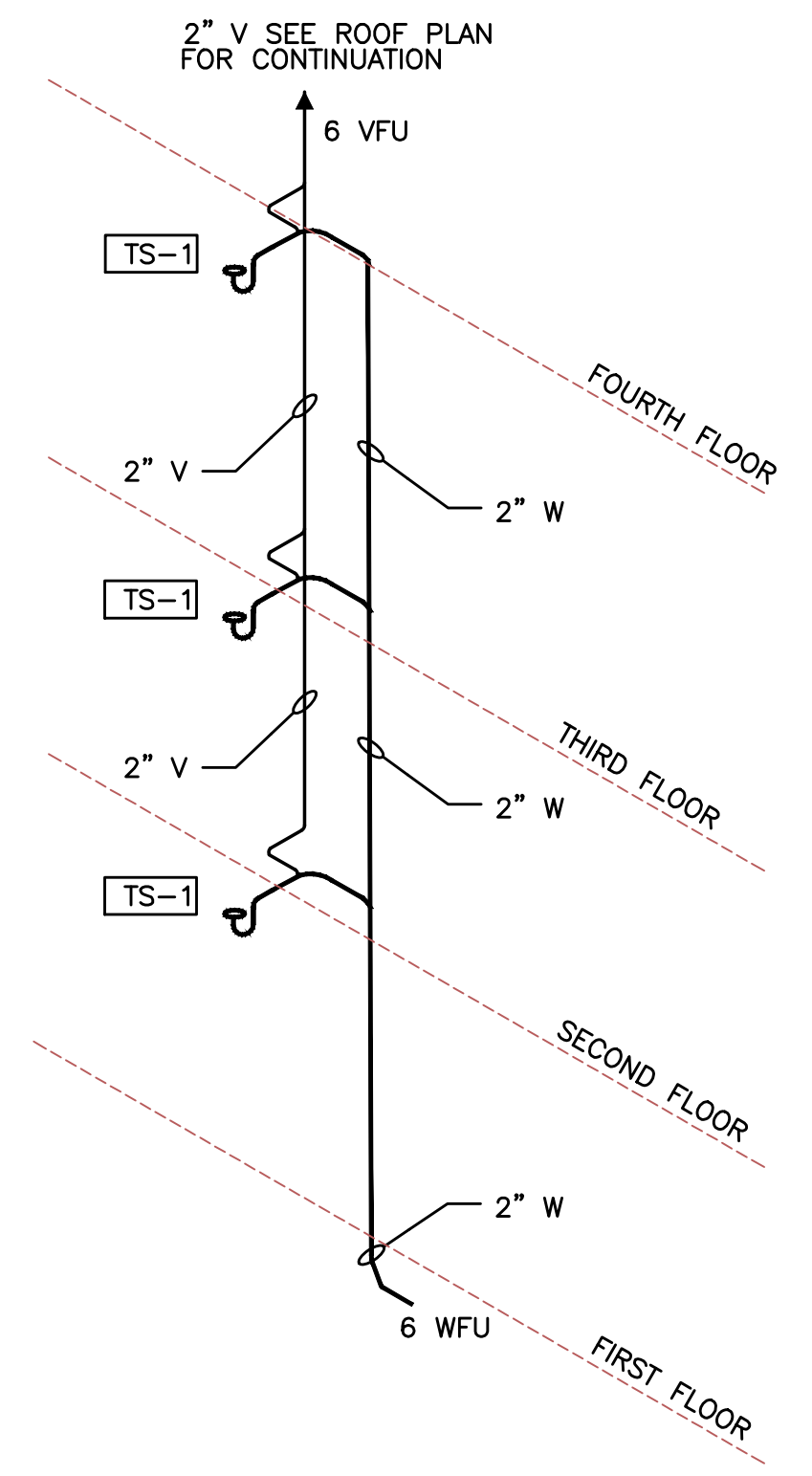
PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602
ISSUE DATE 11.15.2017

WASTE/VENT RISERS
P5.1

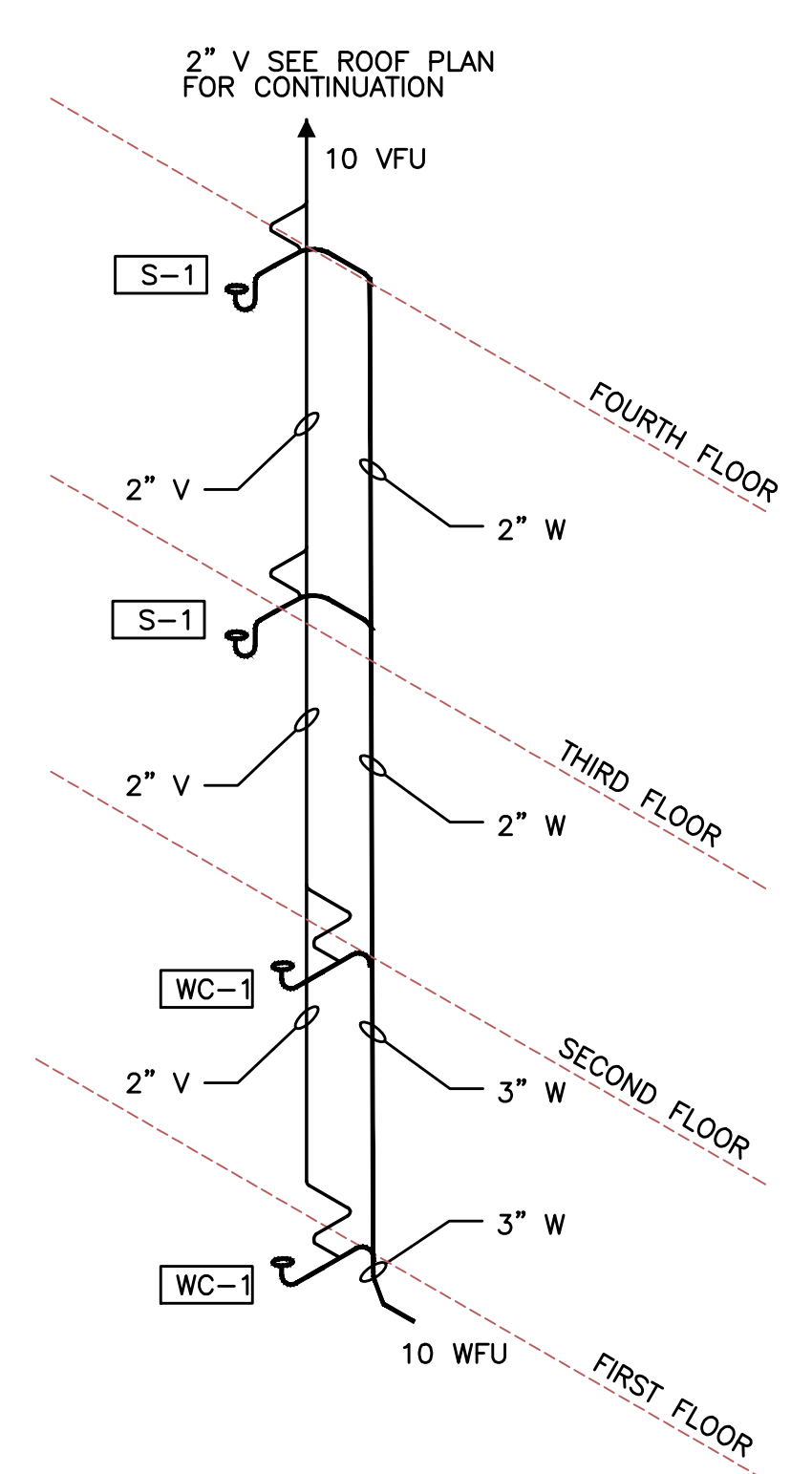
PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.

MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753
www.merrymanbarnesarchitects.com



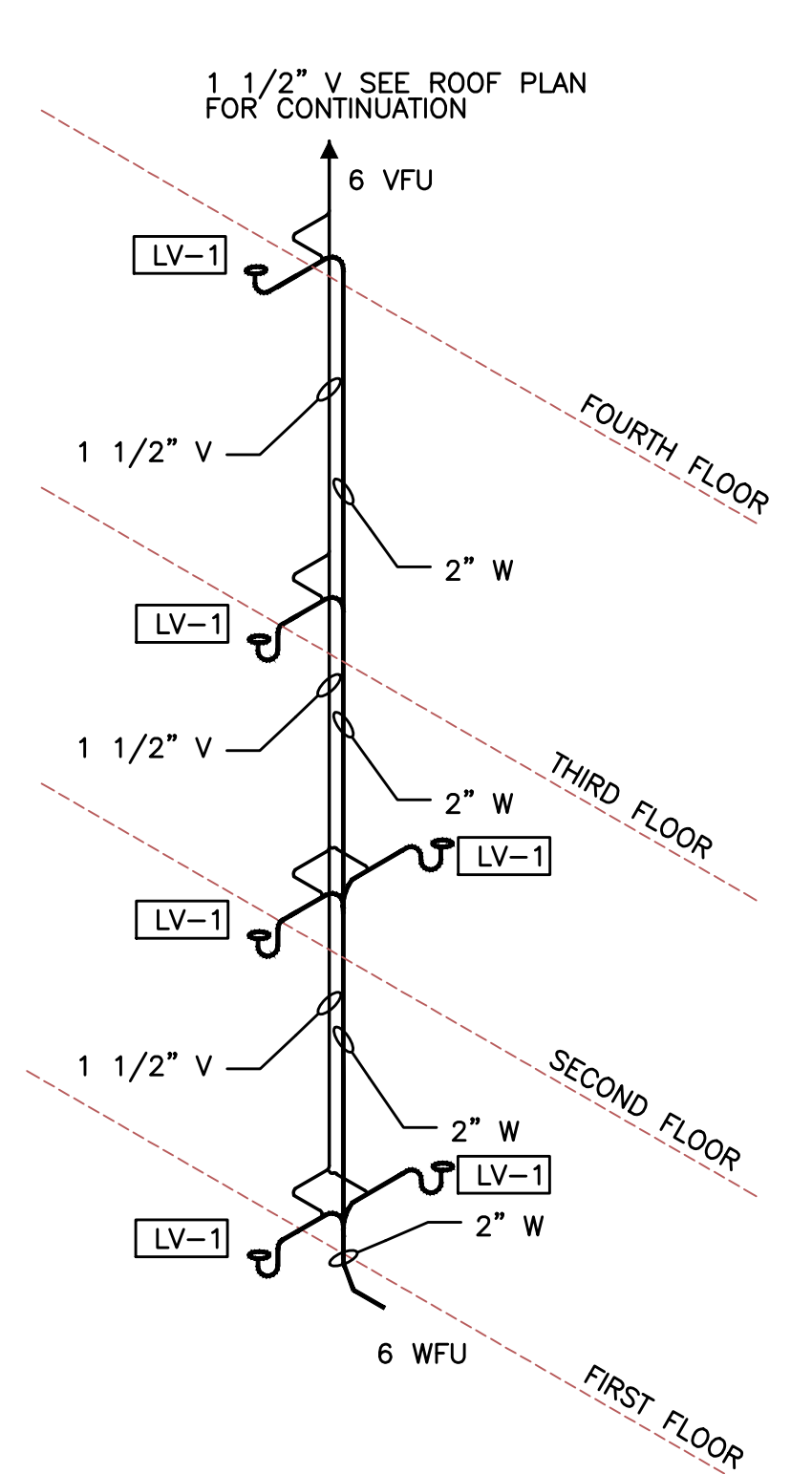
1 RISER "17" TYPICAL
P5.2 NOT TO SCALE

NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.

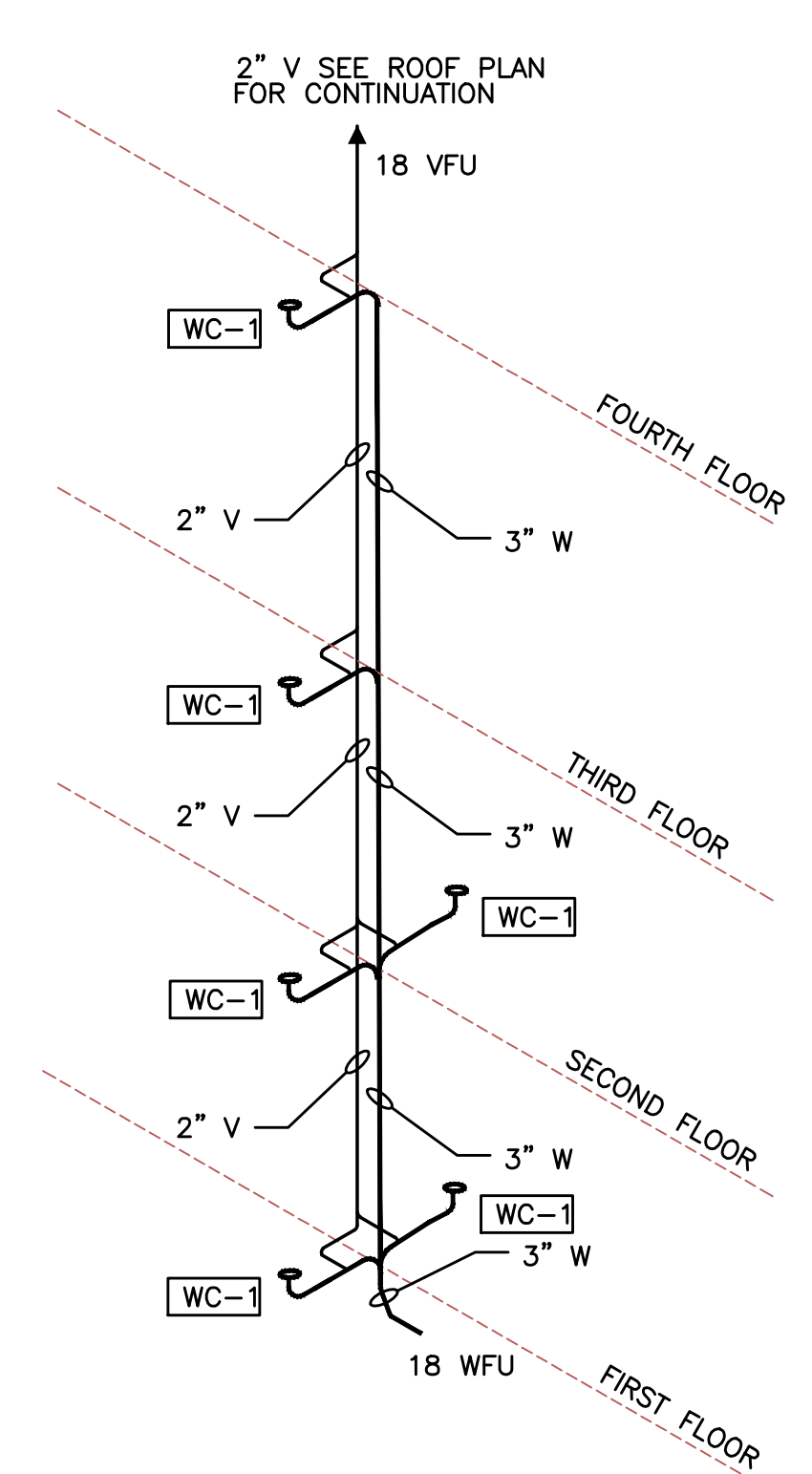


2 RISER "18" TYPICAL
P5.2 NOT TO SCALE

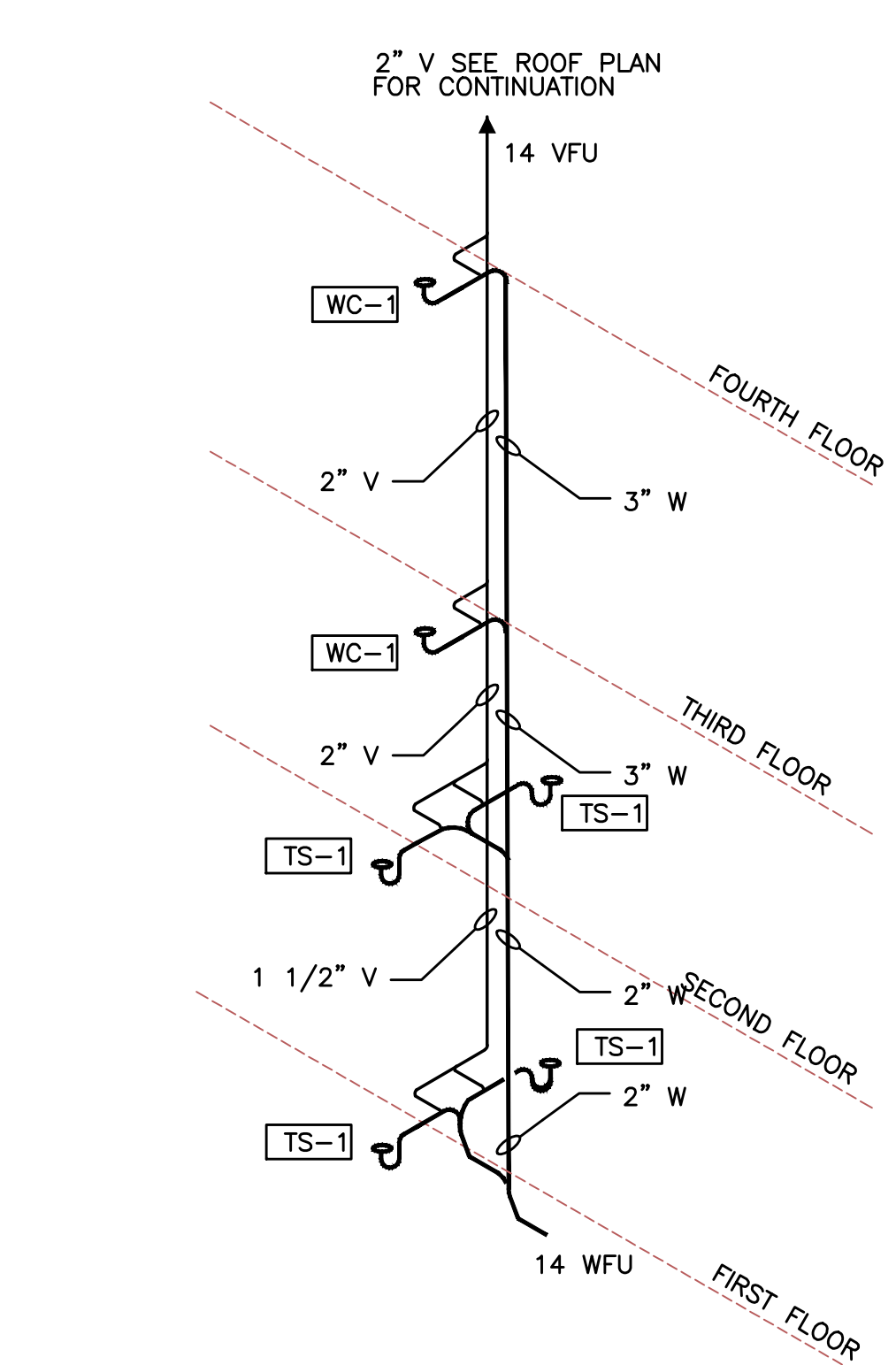
NOTE: DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES.



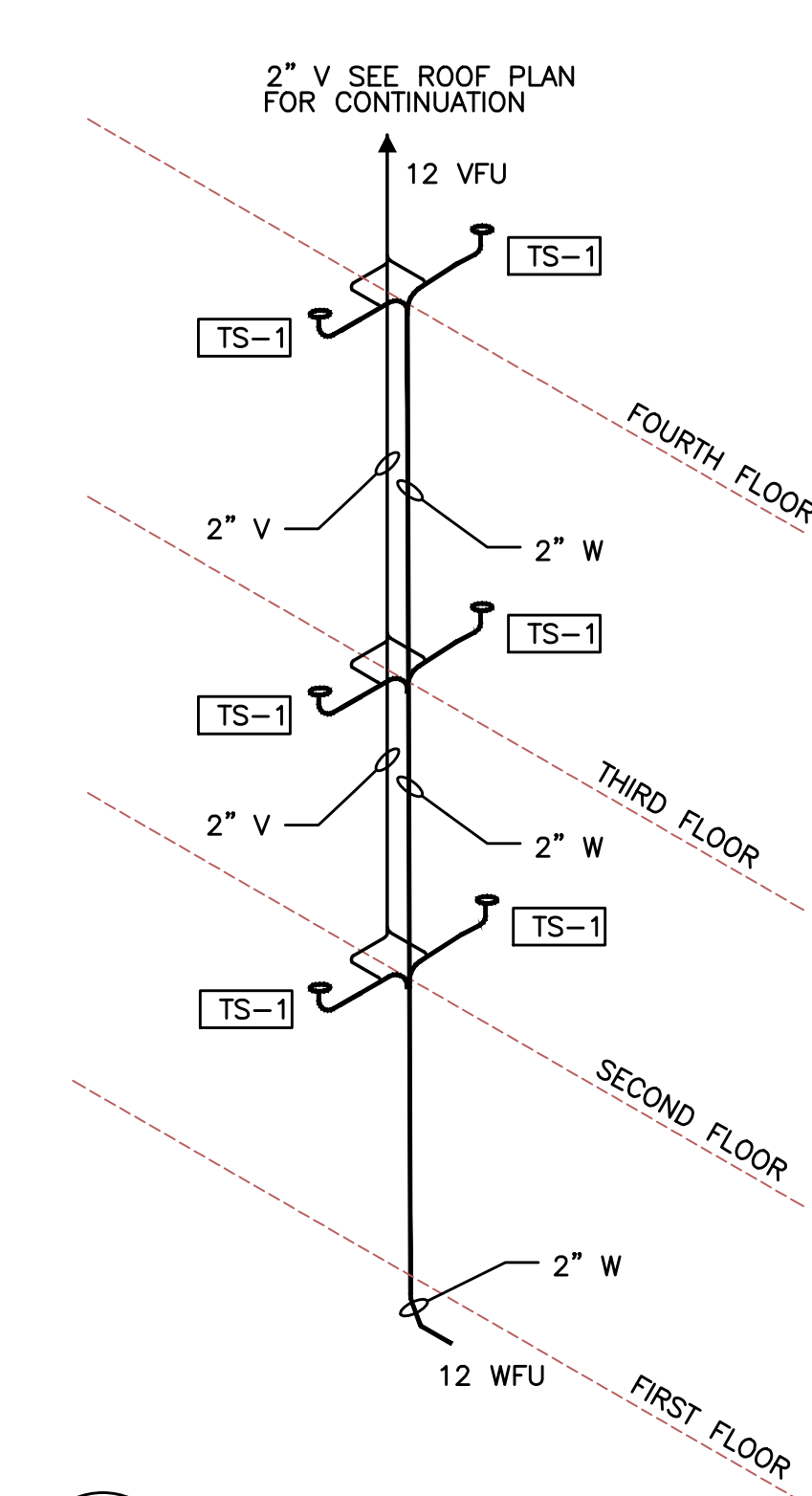
3 RISER "19" TYPICAL
P5.2 NOT TO SCALE



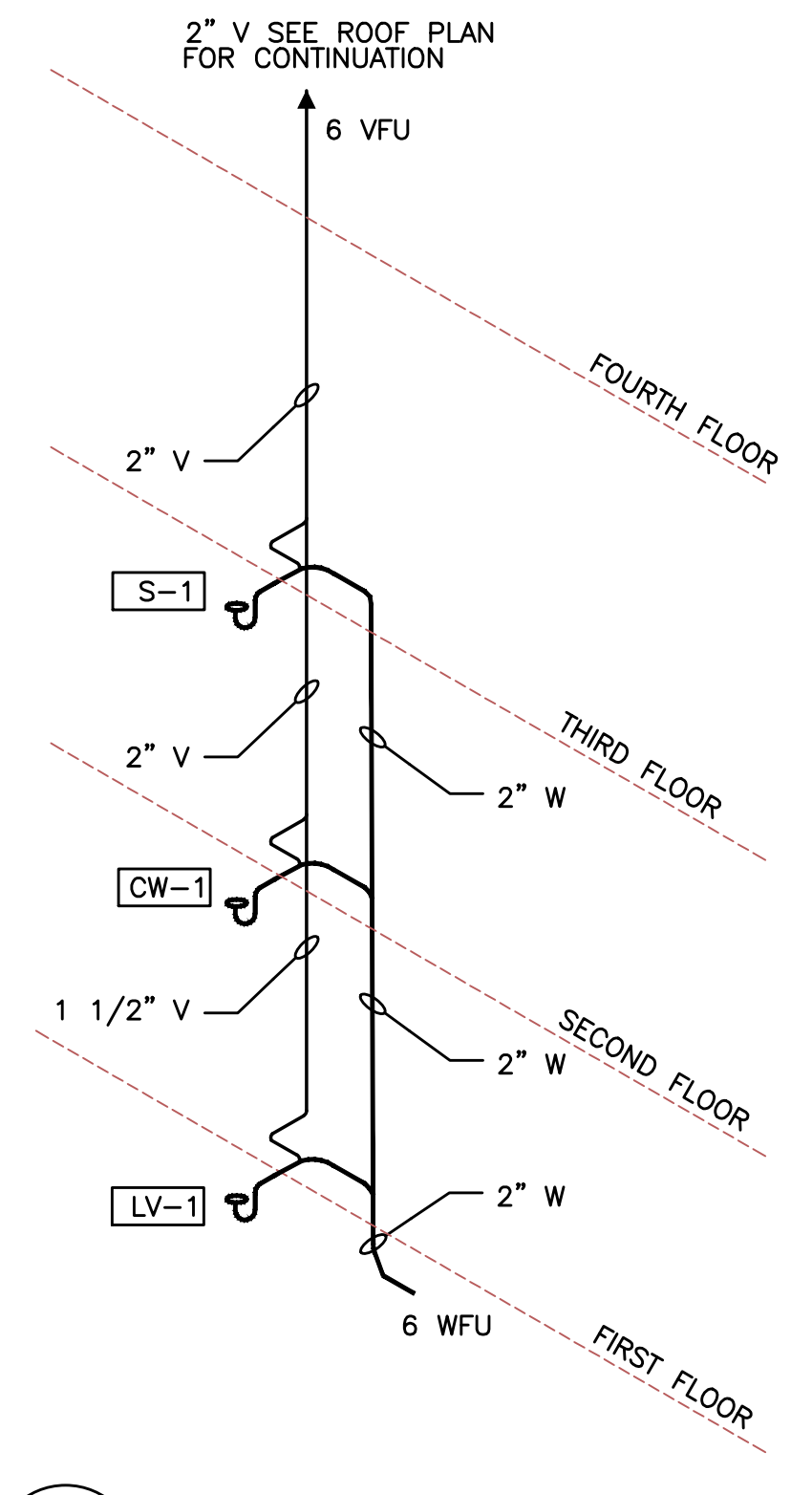
4 RISER "20" TYPICAL
P5.2 NOT TO SCALE



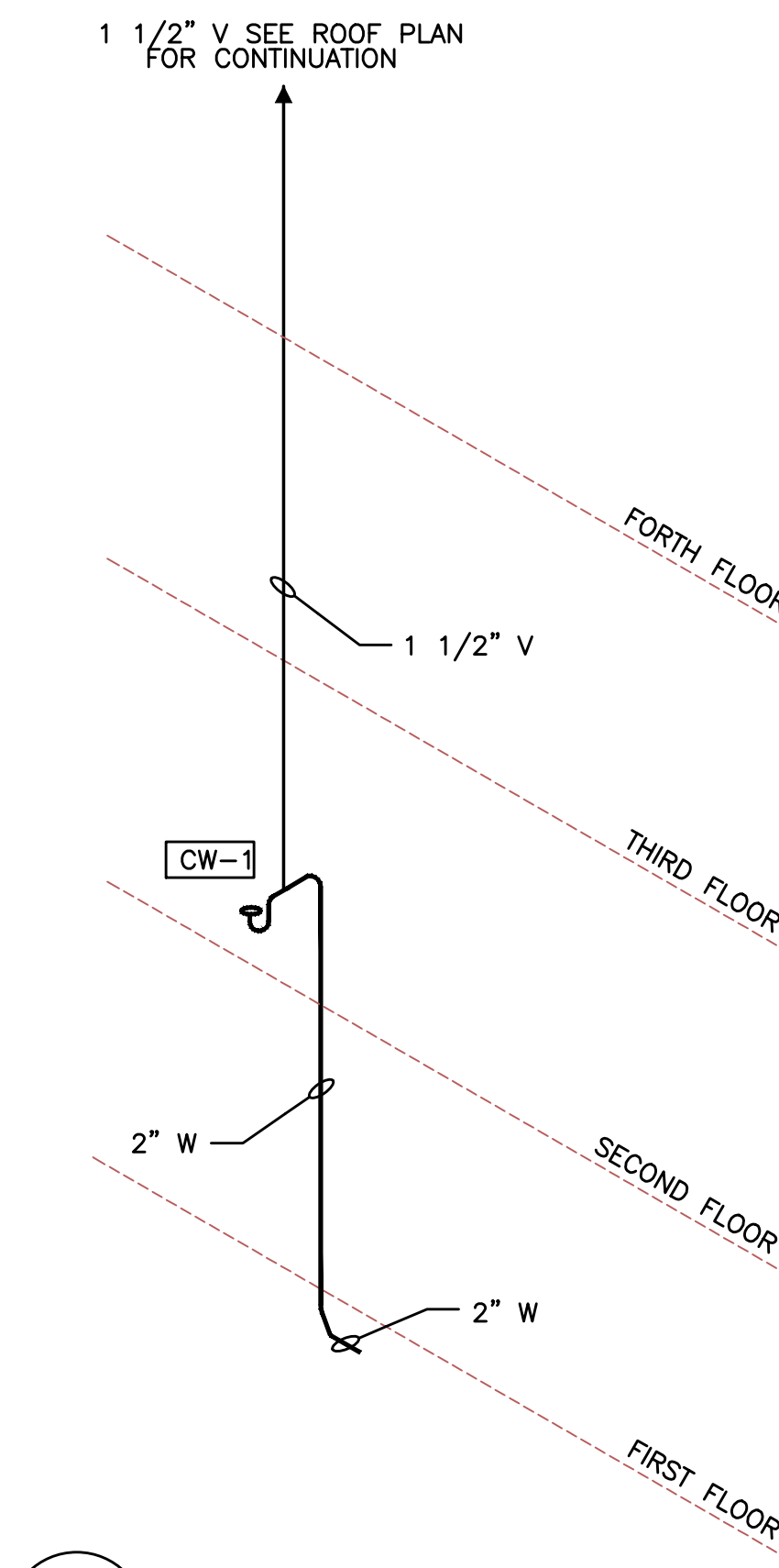
5 RISER "21" TYPICAL
P5.2 NOT TO SCALE



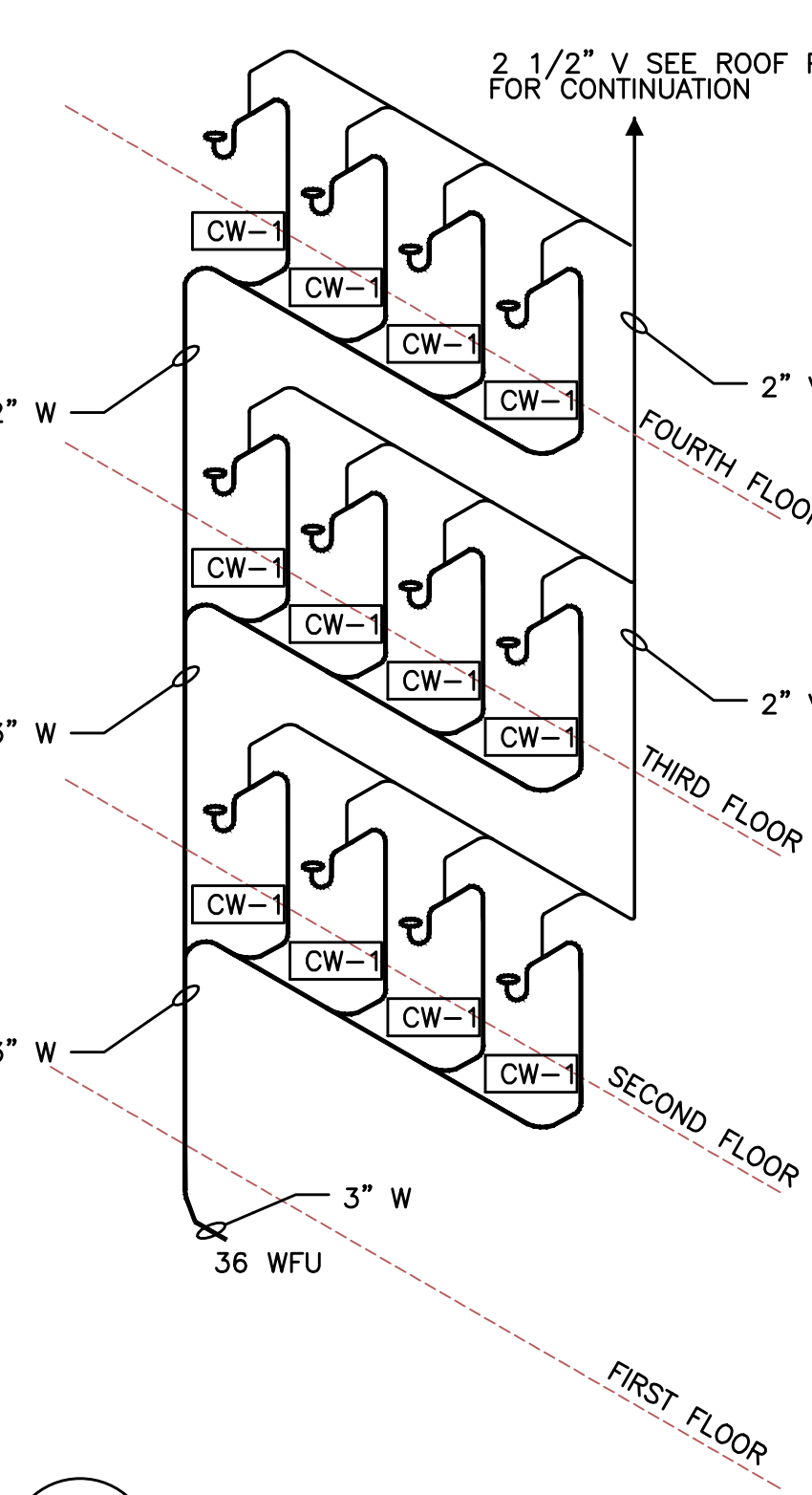
6 RISER "22" TYPICAL
P5.2 NOT TO SCALE



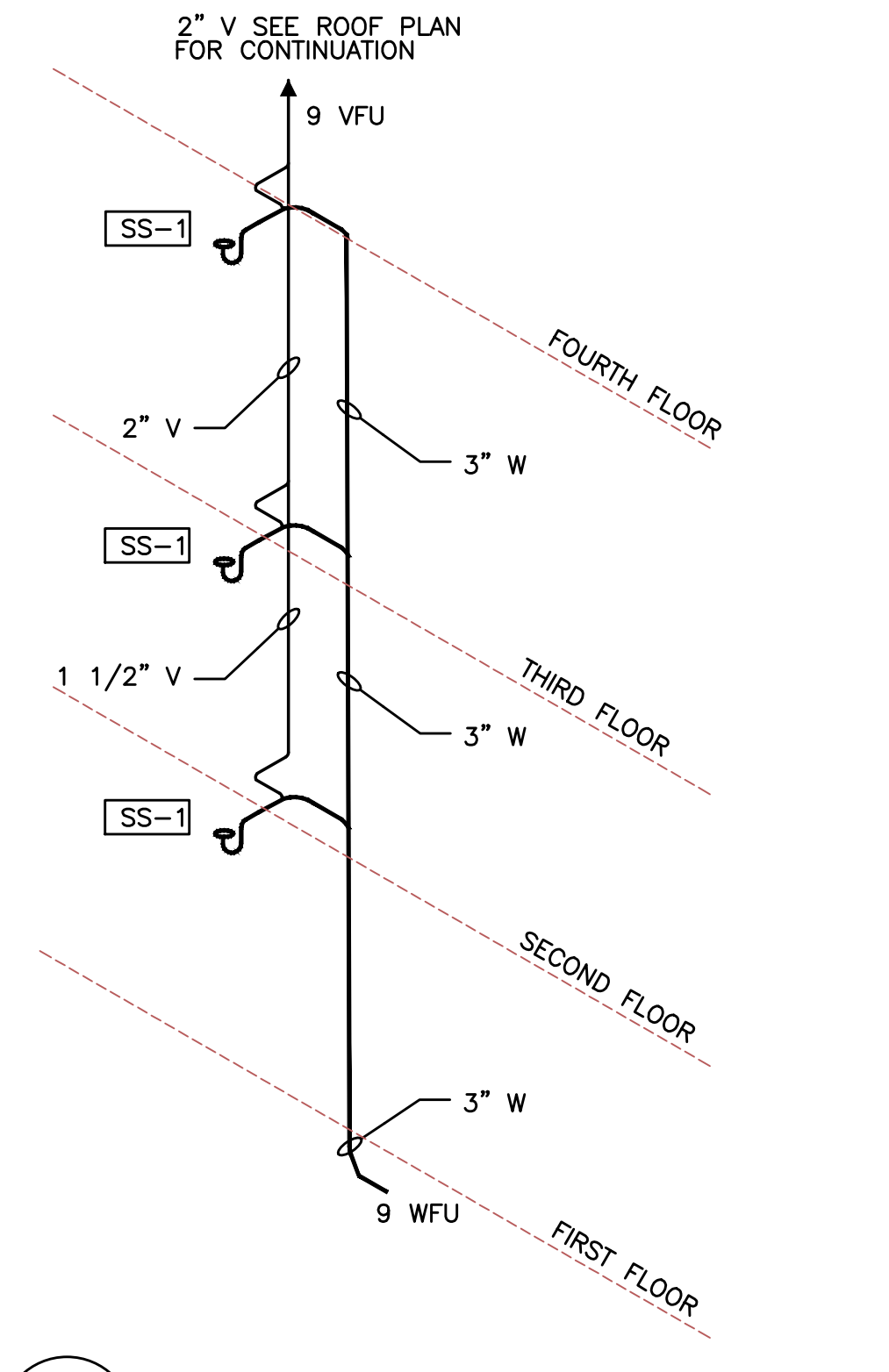
7 RISER "23" TYPICAL
P5.2 NOT TO SCALE



8 RISER "24" TYPICAL
P5.2 NOT TO SCALE



9 RISER "25" TYPICAL
P5.2 NOT TO SCALE



10 RISER "26" TYPICAL
P5.2 NOT TO SCALE

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
INC. WWW.MFIA-ENG.COM
CONTACT: Takako Baker

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602
ISSUE DATE 11.15.2017

REVISIONS
SHEET
WASTE/VENT RISERS
P5.2
PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.



MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM

PLUMBING LEGEND

AFF	..... ABOVE FINISHED FLOOR	--- -- -- -- (CW) COLD WATER
ARCH	..... ARCHITECTURAL	----- (HW) HOT WATER
B.G.	..... BELOW GRADE	----- (HWR) HOT WATER RECIRC
BTU	..... BRITISH THERMAL UNIT	----- (W) BELOW GRADE WASTE
CAP.	..... CAPACITY	----- (W) ABOVE GRADE WASTE
C.I.	..... CAST IRON	--- V --- V (V) VENT
COMP.	..... COMPARTMENT	--- RD --- (RD) RAIN DRAIN
CONT.	..... CONTINUATION	--- OD --- (OD) OVERFLOW RAIN DRAIN
CPVC	..... CHLORINATED POLYVINYL CHLORIDE (PIPE)	--- G --- (G) NATURAL GAS
CU.	..... CUBIC	--- F --- (F) FIRE WATER
DIA.	..... DIAMETER	
ELEV.	..... ELEVATION	Δ PRESSURE/TEMP RELIEF VALVE
FD	..... FLOOR DRAIN	∩ BUTTERFLY VALVE
FDC	..... FIRE DEPARTMENT CONNECTION	Δ GAS PRESSURE REGULATING VALVE
F.F.	..... FINISH FLOOR	⊙ PIPE TURNED UP, PIPE TURNED DOWN
FLG.	..... FLANGE	⊘ GATE VALVE
FT	..... FOOT / FEET	● BALL VALVE
G	..... GAS	⊘ BALANCING VALVE
GA	..... GAUGE	⊘ CHECK VALVE
GALV.	..... GALVANIZED	--- | --- UNION
GPM	..... GALLONS PER MINUTE	⊘ DOUBLE CHECK ASSEMBLY
G.V.	..... GATE VALVE	⊘ CAP
HP	..... HORSEPOWER	⊘ TEE
KW	..... KILOWATT	⊘ ELBOW
LAV	..... LAVATORY	⊘ CLEANOUT
LBS	..... POUNDS	
MAX.	..... MAXIMUM	
MBH	..... THOUSANDS OF BTUs PER HOUR	
MIN.	..... MINIMUM	
M.J.	..... MECHANICAL JOINT	
N.I.M.	..... NOT IN MECHANICAL	
PROT.	..... PROTECTION	
PRV	..... PRESSURE REDUCING VALVE	
PSI, PSIG	..... POUNDS PER SQUARE INCH	
P/T	..... PRESSURE / TEMPERATURE	
REQ'D	..... REQUIRED	
TYP.	..... TYPICAL	
VTR	..... VENT THROUGH ROOF	
WC	..... WATER CLOSET	

	..... EQUIPMENT MARK NUMBER
	..... FIXTURE MARK
	..... NOTE
	..... RISER DIAGRAM

PLUMBING CONNECTION SCHEDULE						
MARK	FIXTURE	W	V	CW	HW	REMARKS
TS-1	TUB SHOWER	1-1/2"	1-1/2"	1/2"	1/2"	BACKED/REINFORCED FOR FUTURE GRAB BARS
TS-2	TUB SHOWER, ADA	1-1/2"	1-1/2"	1/2"	1/2"	ADA GRAB BARS
CW-1	CLOTHES WASHER FITTING	2"	2"	1/2"	1/2"	
DW-1	DISH WASHER	-	-	1/2"	1/2"	①
FD-1	FLOOR DRAIN	3"	VL			JR SMITH 2005 SERIES, PRIME ②
FD-2	FLOOR DRAIN	3"	VL			JR SMITH 2119 SERIES, PRIME ②③
FS-1	FLOOR SINK	3"	1 1/2"			J.R. SMITH 3002 WITH HALF GRATE, PRIME
HB-1	HOSE BIBB			3/4"		VACUUM/FREEZE PROTECTED
HB-2	HOSE BIBB (TRASH)			1/2"	1/2"	HOT & COLD, VACUUM PROTECTED
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	UNDER COUNTER MOUNT
LV-2	LAVATORY, ADA	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC COUNTER MOUNT
LV-3	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC COUNTER MOUNT
RD-1	ROOF DRAIN	-	-	-	-	SIZED ON PLANS
OD-2	OVERFLOW ROOF DRAIN	-	-	-	-	SIZED ON PLANS
S-1	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT
S-2	KITCHEN SINK, ADA	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT
SP-1	SUMP PUMP	2"				100 GPM
SS-1	SERVICE SINK	3"	1-1/2"	1/2"	1/2"	FLOOR MOUNT, VACUUM PROTECTED
WC-1	WATER CLOSET	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED
WC-2	WATER CLOSET, ADA	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED ADA
WC-3	WATER CLOSET, ADA	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED, ADA
CO	CLEANOUT					JR SMITH ②

- V.L. - VENTED LINE
- ① PROVIDE ALL PLUMBING CONNECTIONS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE ELECTRICAL CONNECTION(S) WITH ELECTRICAL CONTRACTOR.
 - ② ENSURE THAT FLOOR DRAINS AND FLOOR CLEANOUTS ARE INSTALLED FLUSH TO FINISHED FLOOR.
 - ③ PROVIDE W/SEDIMENT BUCKET AND TRAFFIC RATED GRATE.

GAS WATER HEATERS

MARK NUMBER	
FUEL	GAS
CAPACITY (GAL)	100
INPUT RATE (MBH)	199
RECOVERY CAP. @ 100 TR (GPH)	239
EFFICIENCY (%)	98.5
COMBUSTION AIR/GAS VENT DIA.	4" PP
DESIGN WEIGHT (LBS)	1735
BASIS OF DESIGN (BRADFORD WHITE)	EF-100T-199E-3N(A)

DOMESTIC RECIRC PUMP

MARK NUMBER	
SERVICE	WH/1-5
TYPE	RECIRC.
FLOW RATE (GPM)	18
HEAD (FT)	20
MOTOR HP	1/6
RPM	1750
BASIS OF DESIGN: GRUNDFOS	UP43-75BF

MIXING VALVE

MARK NUMBER		
WATER HEATER	1-5	
MAX FLOW RATE GPM *	138	
MIN FLOW RATE GPM	1.0	
CW (SIZE IN.)	2"	
HW (SIZE IN.)	2"	
BASIS OF DESIGN	SYMMONS 7-900A	

* - AT 15 PSI DROP MAX

SUMP PUMP

MARK NUMBER	
SYSTEM	ELEVATOR
TYPE	SUMP
FLOW RATE (GPM)	100
HEAD (FT H2O)	20
POWER (HP)	1HP/208/1

* - PROVIDE W/ PLUG IN CONNECTION FOR POWER

PLUMBING CALCULATIONS 1bd/1ba

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
WATER CLOSET (1.6 GPF TANK-PRIVATE)	1	2.5	2.5	2.5	0	3	3
TOTAL PER UNIT	4	10.5	10.5	8.5	6	8	8
20 TYPICAL UNITS	80	210	210	170	120	160	160

PLUMBING CALCULATIONS 2bd/1ba

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
WATER CLOSET (1.6 GPF TANK-PRIVATE)	1	2.5	2.5	2.5	0	3	3
TOTAL PER UNIT	4	10.5	10.5	8.5	6	8	8
37 TYPICAL UNITS	148	388.5	388.5	314.5	222	296	296

PLUMBING CALCULATIONS 3bd/1.5ba

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	2	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	5	0	3	6
TOTAL PER UNIT	6	10.5	14	11.75	6.75	8	12
1 TYPICAL UNIT	6	10.5	14	11.75	6.75	8	12

PLUMBING CALCULATIONS 2bd/1.5ba TH

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	1	4	4	3	3	3	3
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	1	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	5	0	3	6
TOTAL PER UNIT	7	14.5	18	14.75	9.75	11	15
1 TYPICAL UNIT	7	14.5	18	14.75	9.75	11	15

PLUMBING CALCULATIONS 3bd/1.5ba TH

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	1	4	4	3	3	3	3
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	1	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	5	0	3	6
TOTAL PER UNIT	7	14.5	18	14.75	9.75	11	15
11 TYPICAL UNITS	77	159.5	198	162.25	107.25	121	165

COMMON SPACES

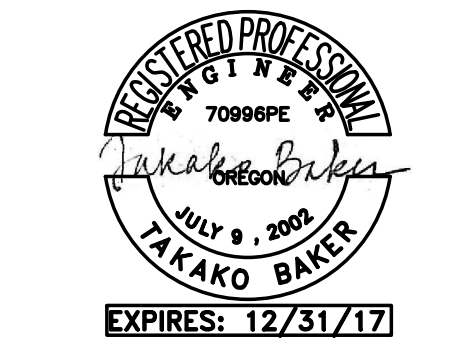
FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
MOP BASIN	4	3	12	9	9	3	12
HOSE BIBB (FIRST ONE)	4	2.5	10	10	0	---	---
RECEPTOR (ELEVATOR WASTE)	1	0	0	0	0	100	100
CLOTHES WASHER	22	4	88	66	66	3	66
RECEPTOR (INDIRECT WASTE)	9	---	---	---	---	1	9
LAVATORY (SINGLE)	3	1	3	2.25	2.25	1	3
WATER CLOSET (1.6 GPF TANK-PRIVATE)	3	2.5	7.5	7.5	0	3	9
TOTAL:	46	13	120.5	94.75	77.25	111	199

BUILDING TOTAL

UNIT TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	TOTAL DFU	
2BD/1BA	80	210	210	170	120	160	
2BD/1BA	148	388.5	388.5	314.5	222	296	
3BD/1.5BA	6	10.5	14	11.75	6.75	12	
2BD/1.5 TH	7	14.5	18	14.75	9.75	15	
3BD/1.5 TH	77	159.5	198	162.25	107.25	165	
COMMONS SPACES	46	13	120.5	94.75	77.25	199	
ELEVATOR SUMP PUMP						100	
TOTAL:	364	796	949	768	543	947	

DOMESTIC WATER DEMAND	180	GPM
DOMESTIC WATER PIPE SIZE	4"	CW
SANITARY SEWER	8"	WASTE

MFI Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0514
 FAX: (503) 234-0677
 WWW.MFI-ENG.COM
 CONTACT: Takako Baker



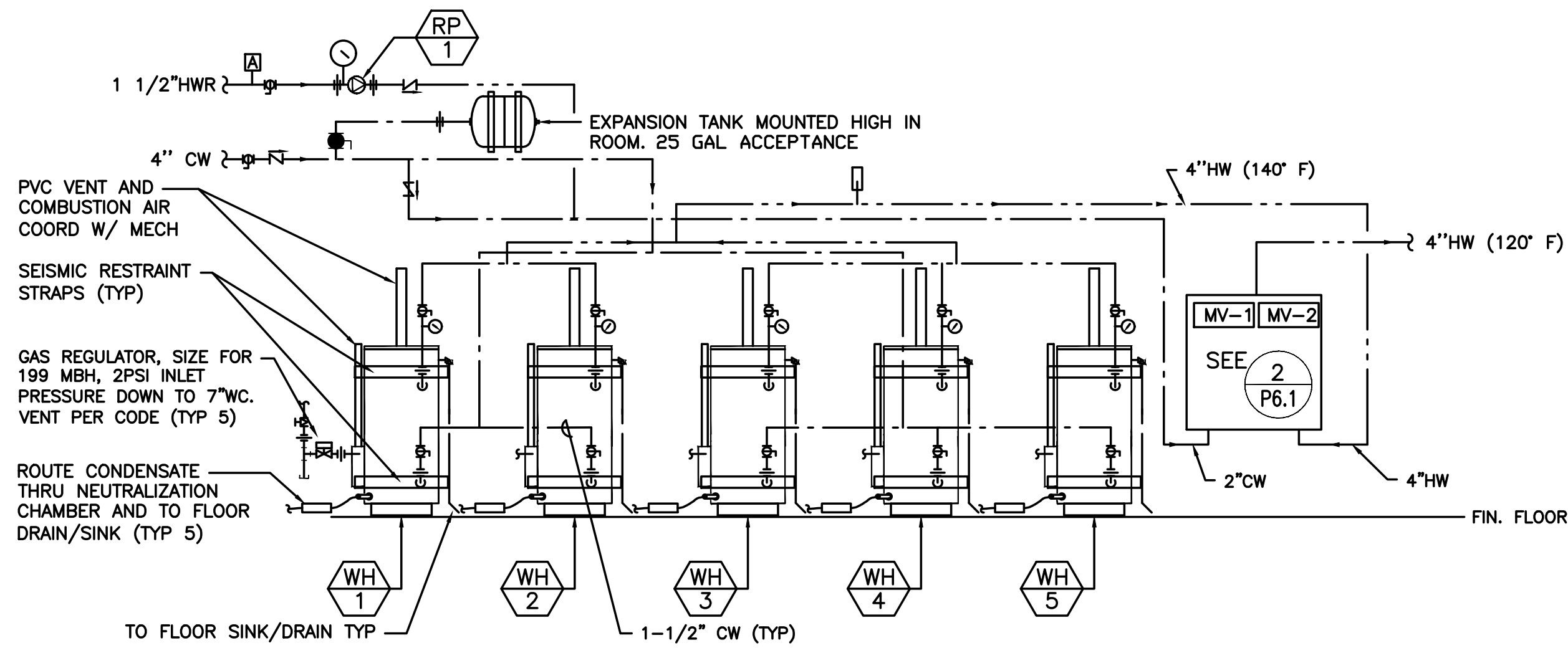
KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

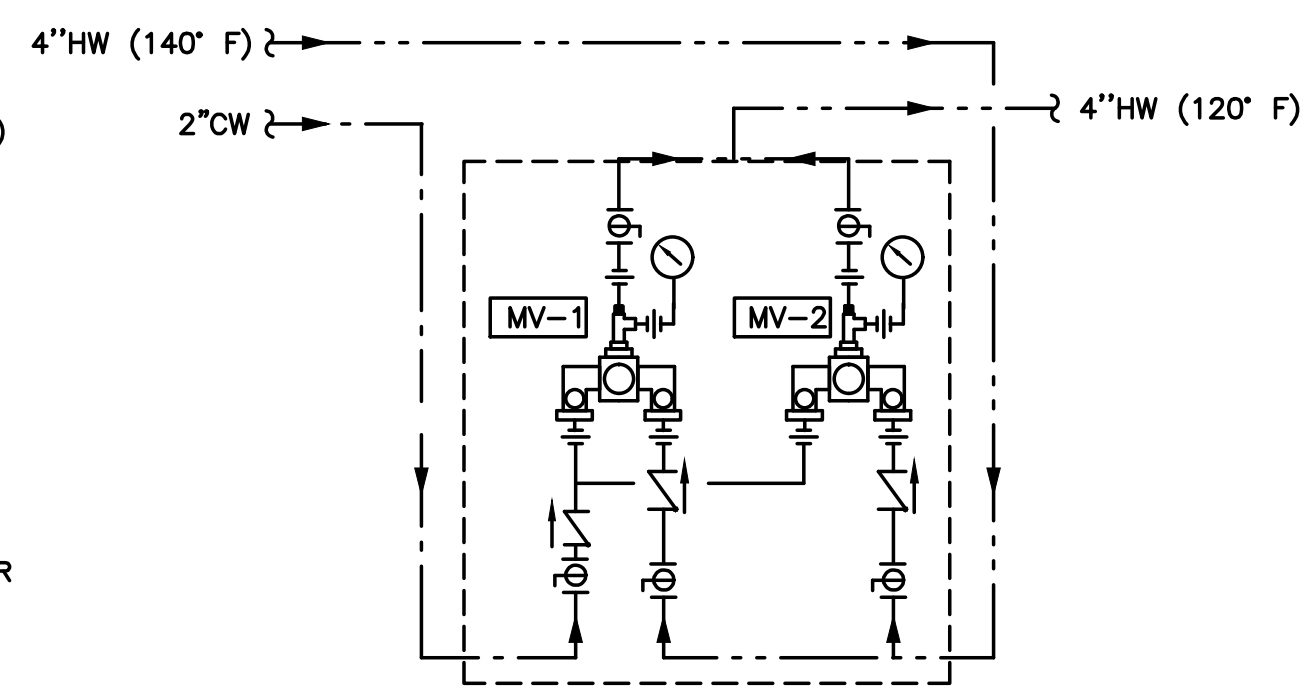
PROJECT NO. 16-0602
 ISSUE DATE 11.15.2017

LEGENDS AND SCHEDULES
P6.0
 PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

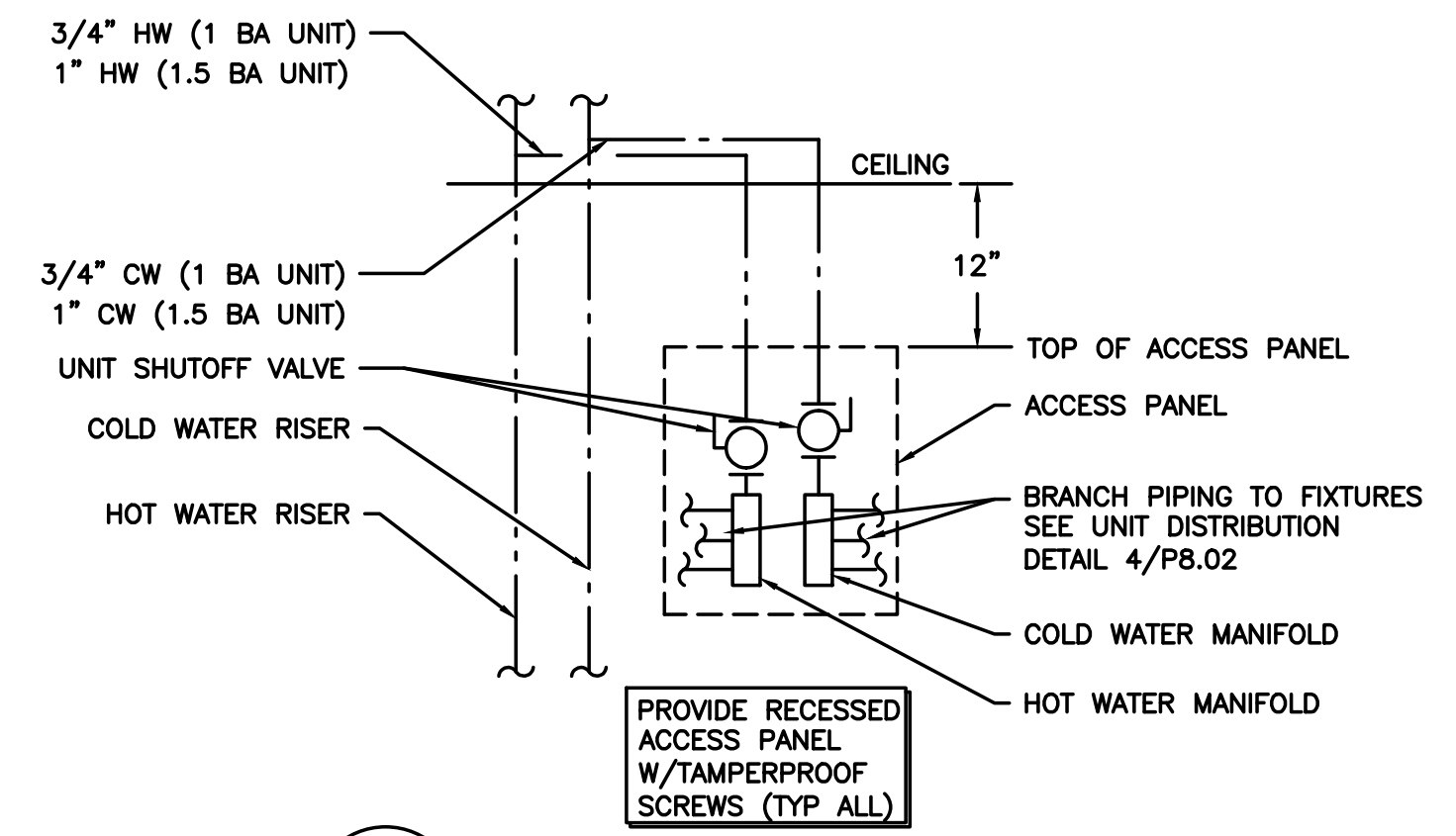




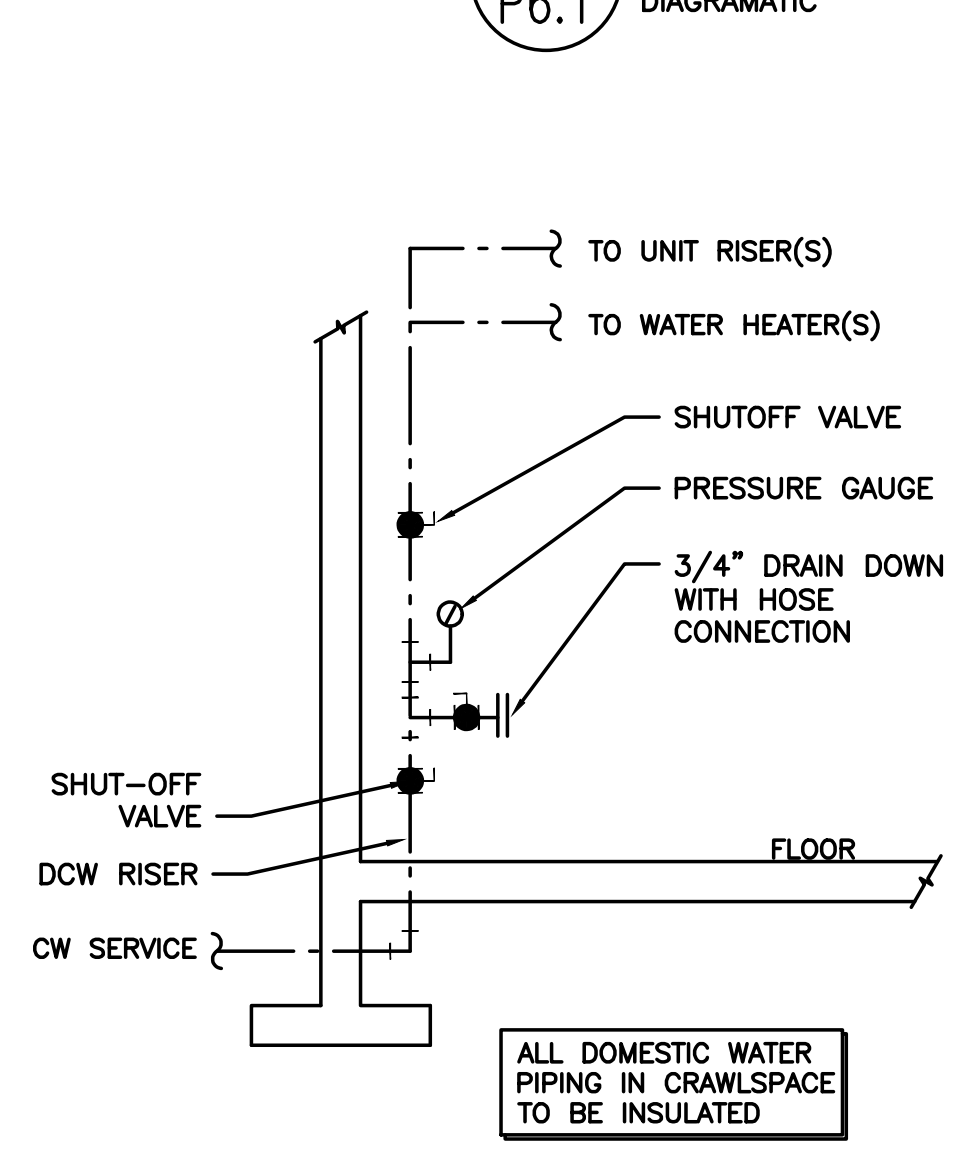
1 WATER HEATER PIPING DETAIL
P6.1 DIAGRAMATIC



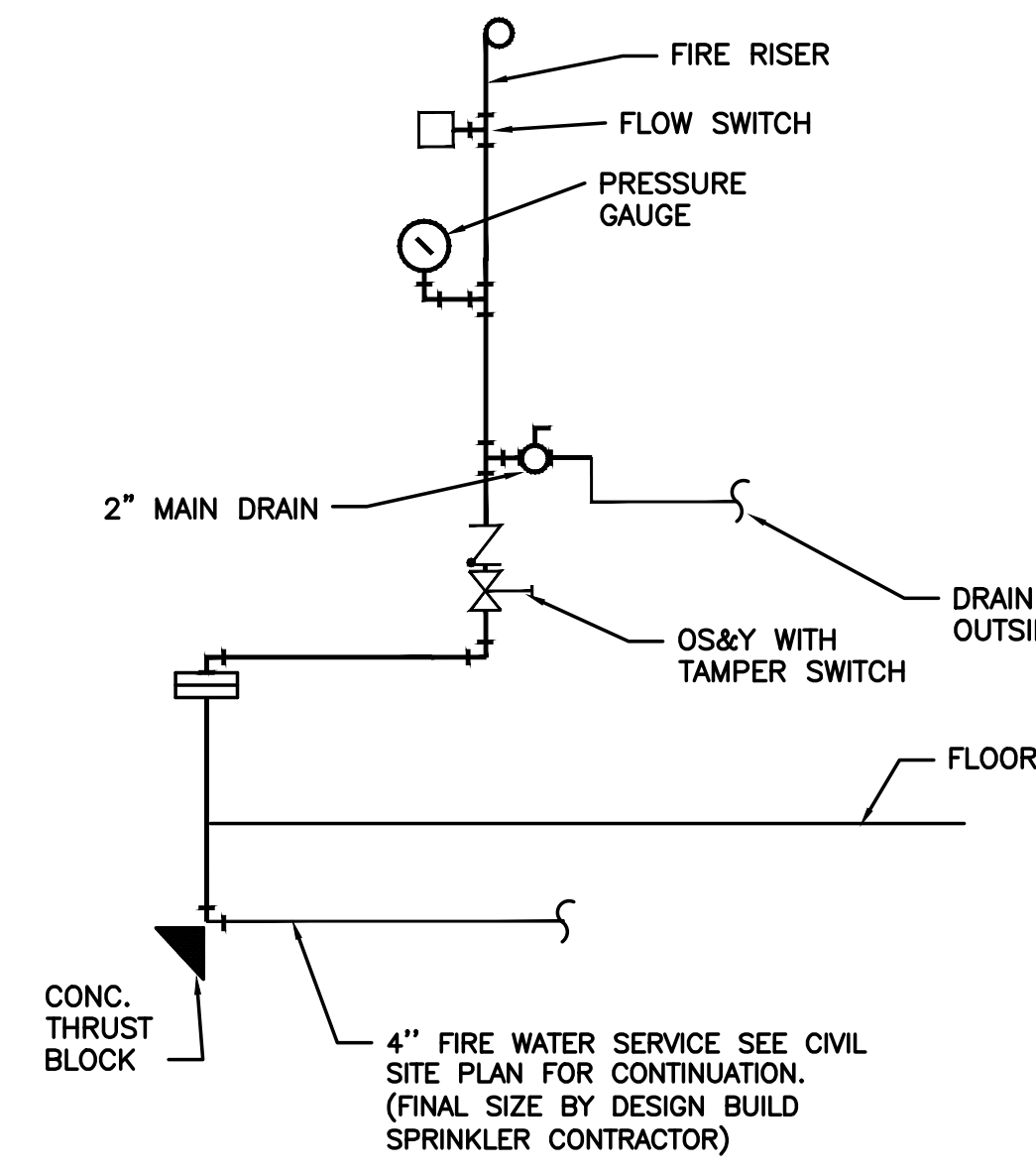
2 MIXING VALVE
P6.1 DIAGRAMATIC



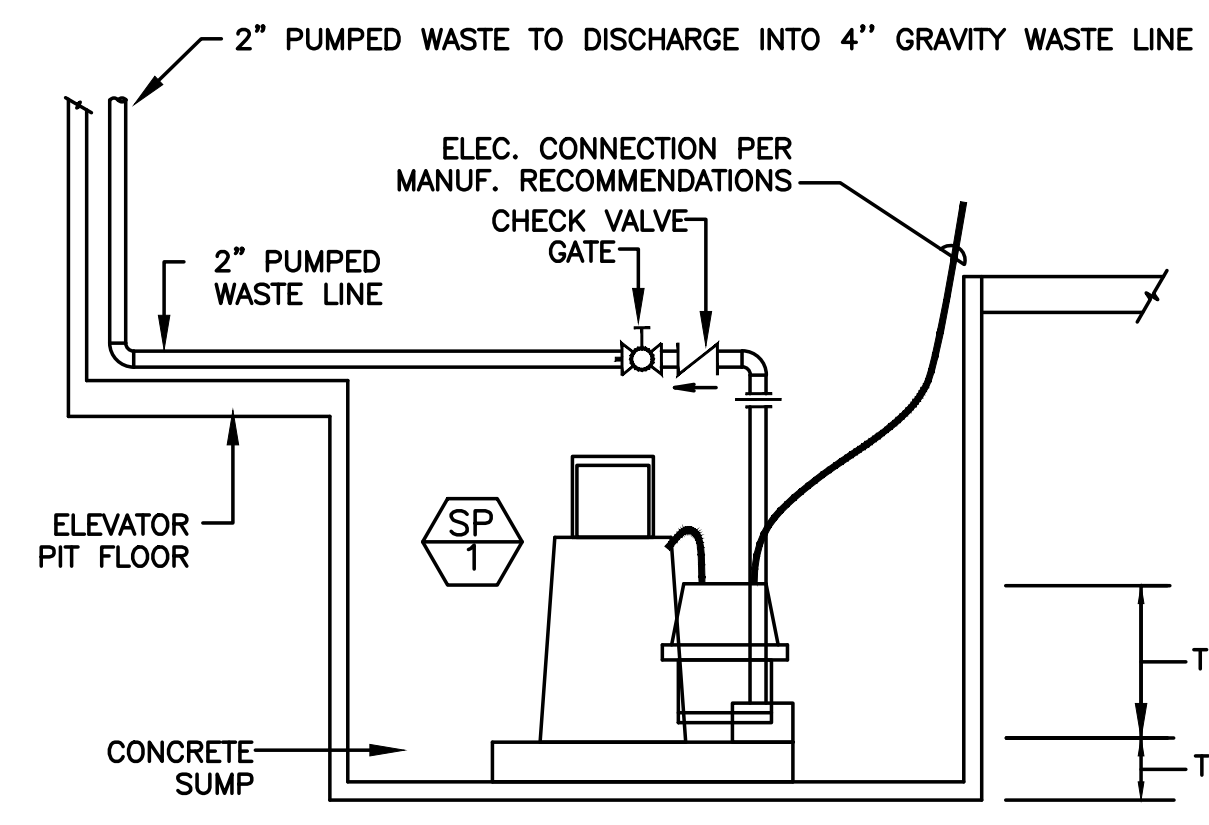
3 UNIT DISTRIBUTION MANIFOLD
P6.1 DIAGRAMATIC



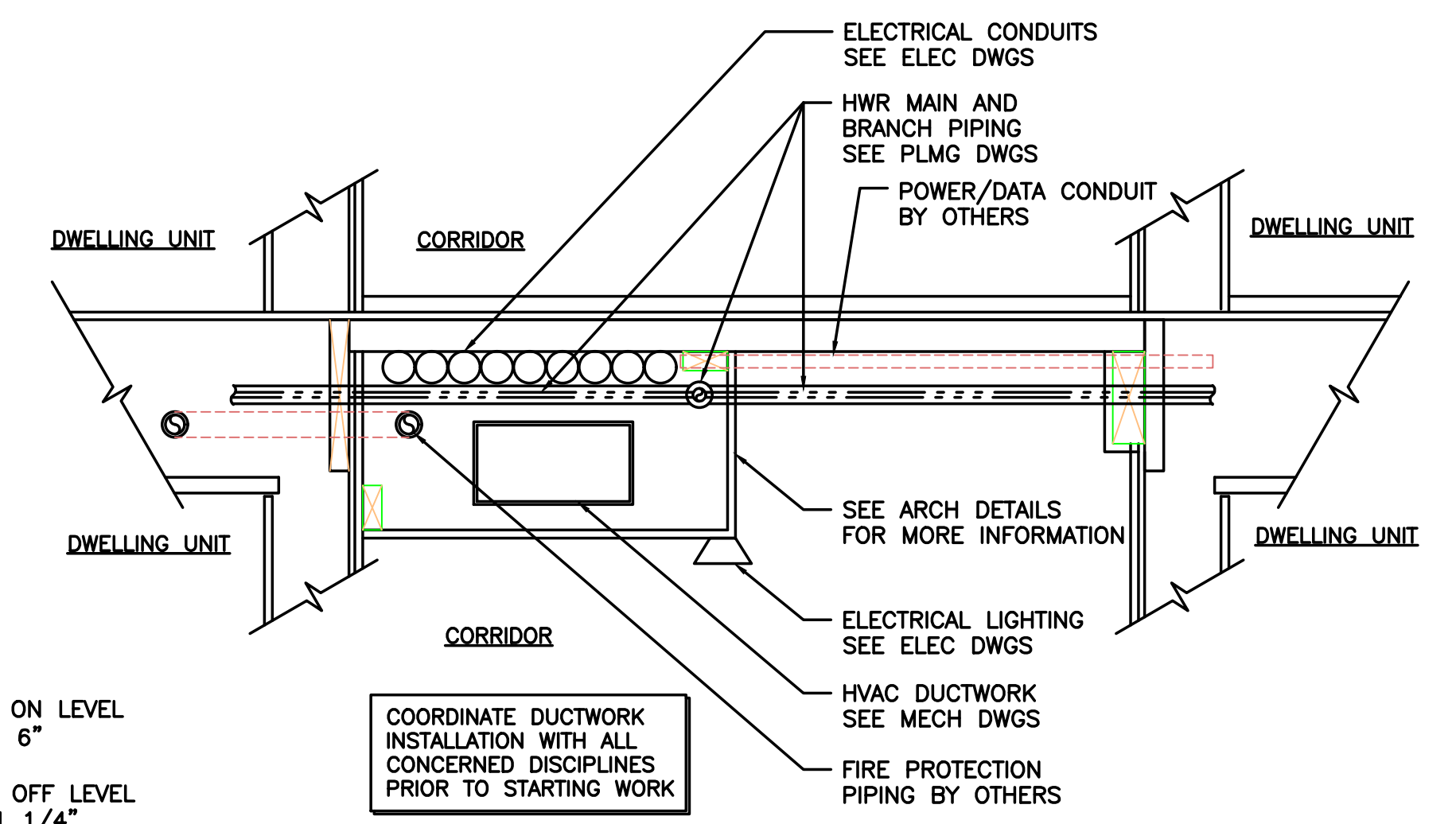
4 DOMESTIC WATER RISER DIAGRAM
P6.1 DIAGRAMATIC



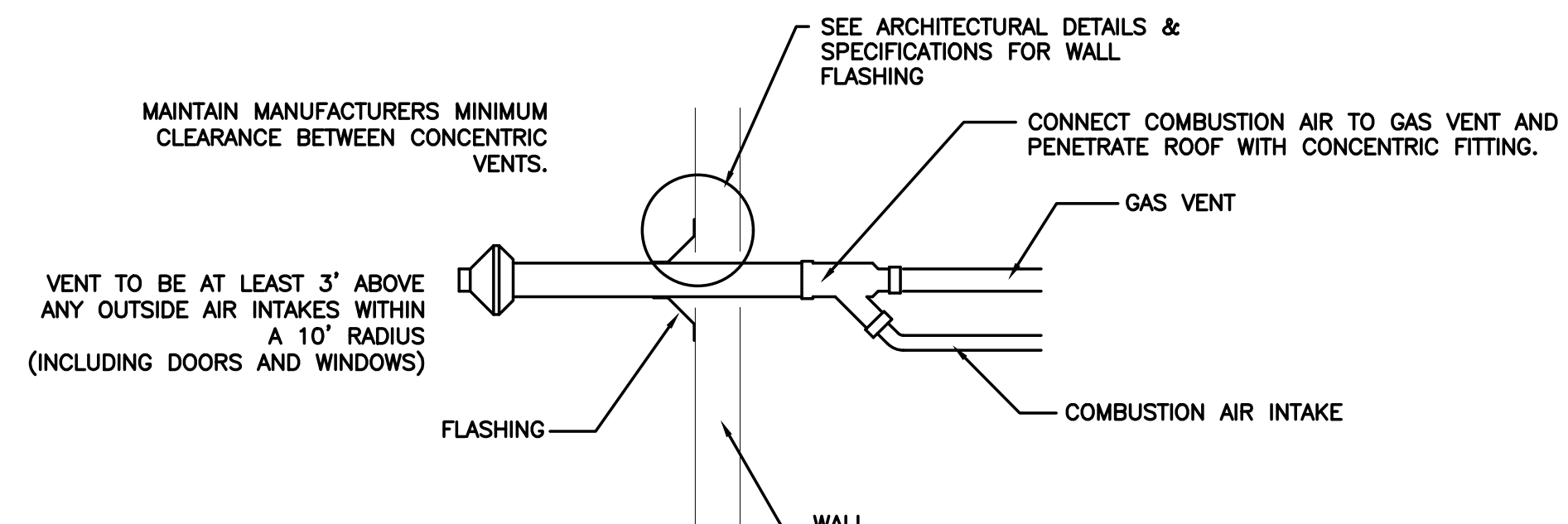
5 FIRE RISER DIAGRAM
P6.1 DIAGRAMATIC



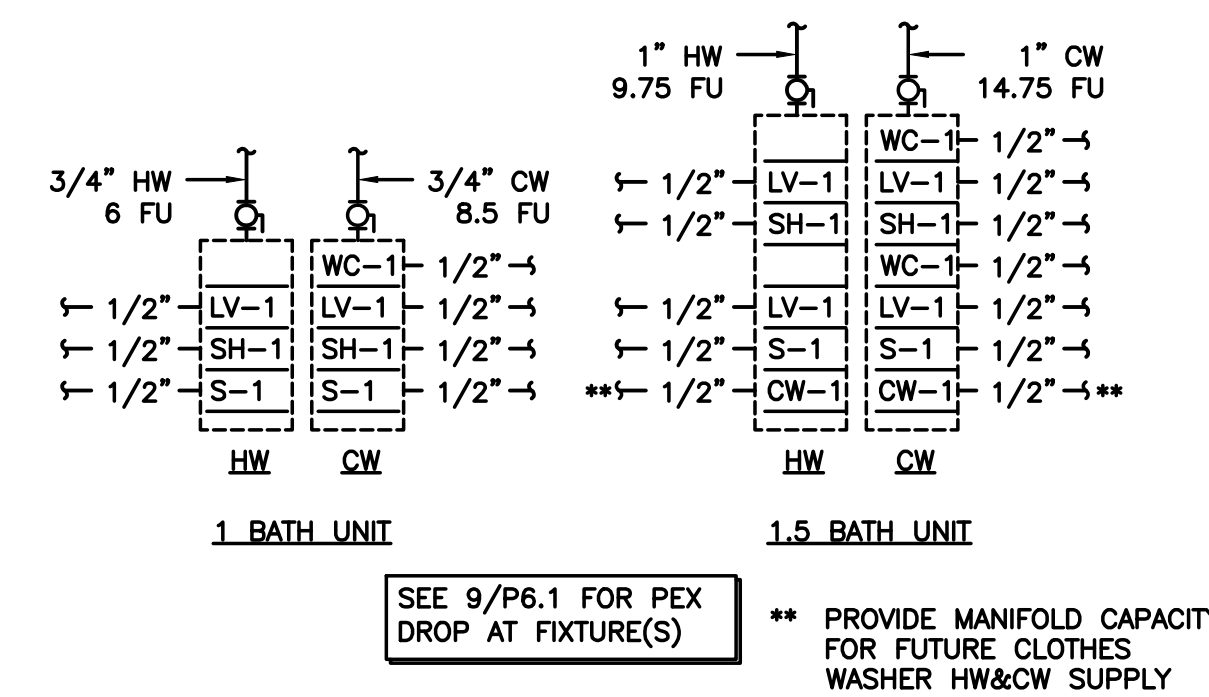
6 TYPICAL ELEVATOR SUMP
P6.1 DIAGRAMATIC



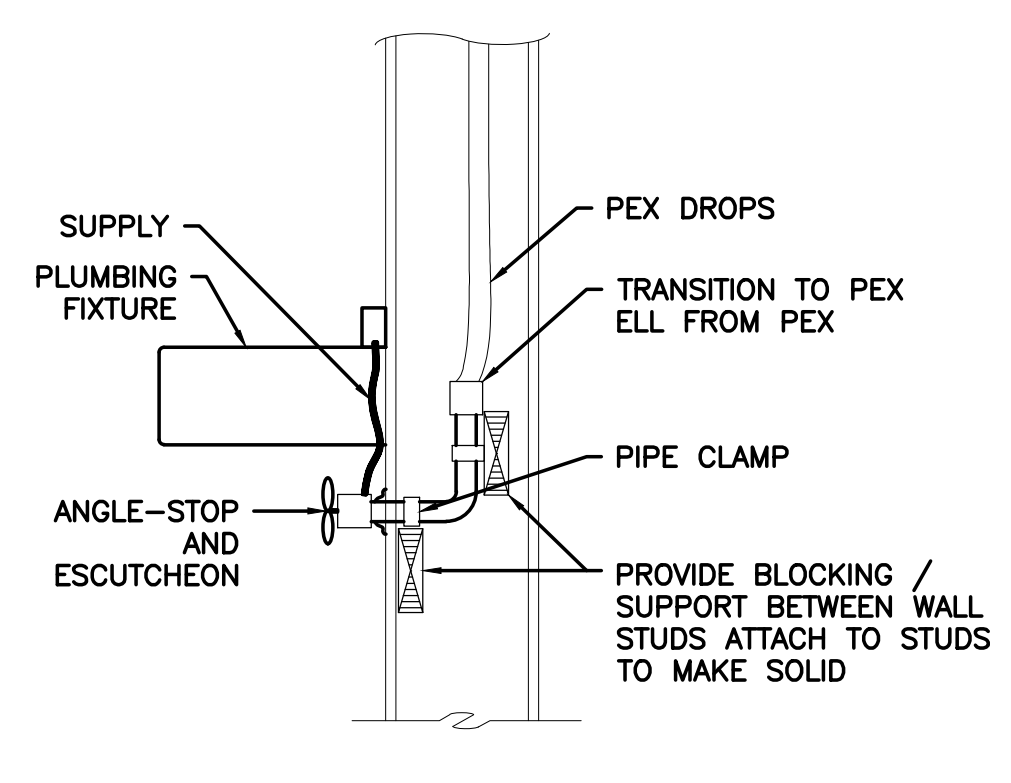
7 DUCT/PIPE ROUTING DETAIL
P6.1 DIAGRAMATIC



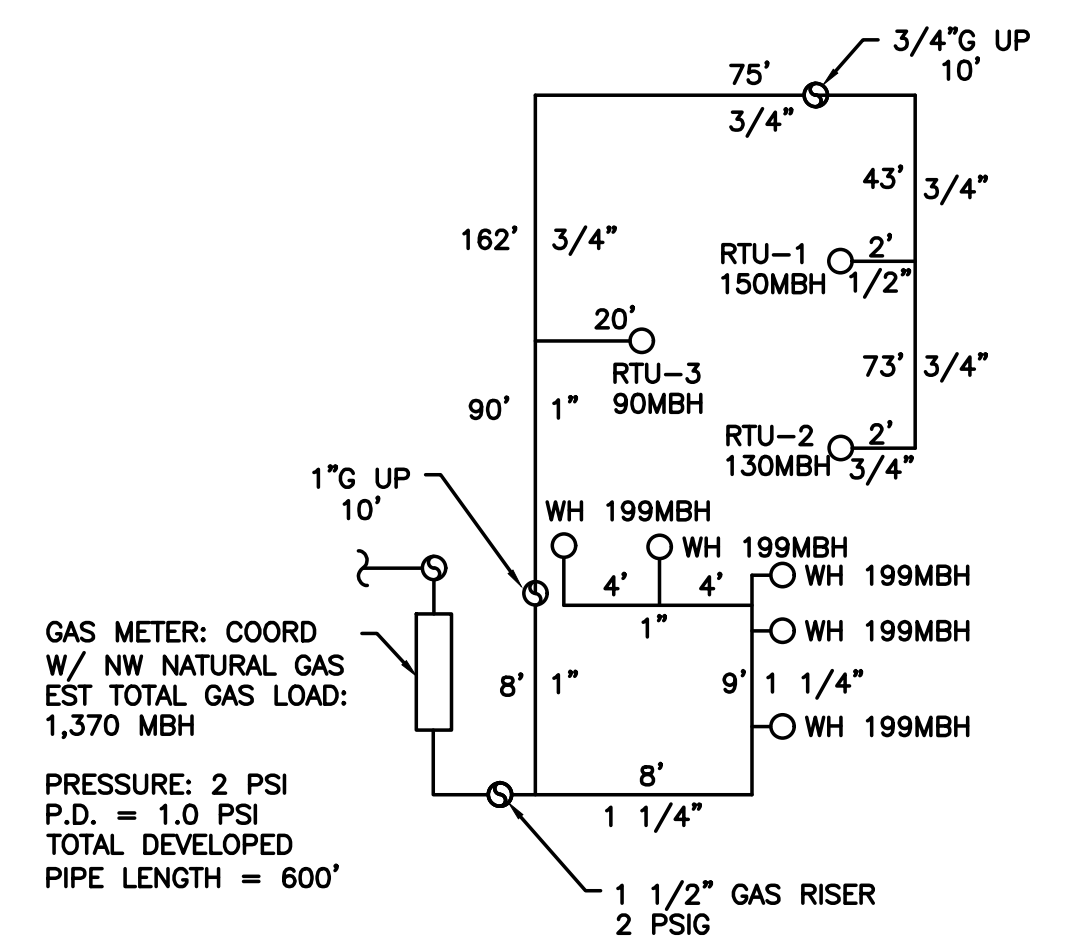
7 CONCENTRIC GAS VENT & COMBUSTION AIR INTAKE
P6.1 DIAGRAMATIC



8 UNIT DISTRIBUTION MANIFOLD
P6.1 DIAGRAMATIC



9 PEX DROP DETAIL
P6.1 DIAGRAMATIC



10 GAS PIPING DIAGRAM
P6.1 DIAGRAMATIC



KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602 ISSUE DATE 11.15.2017

REVISIONS

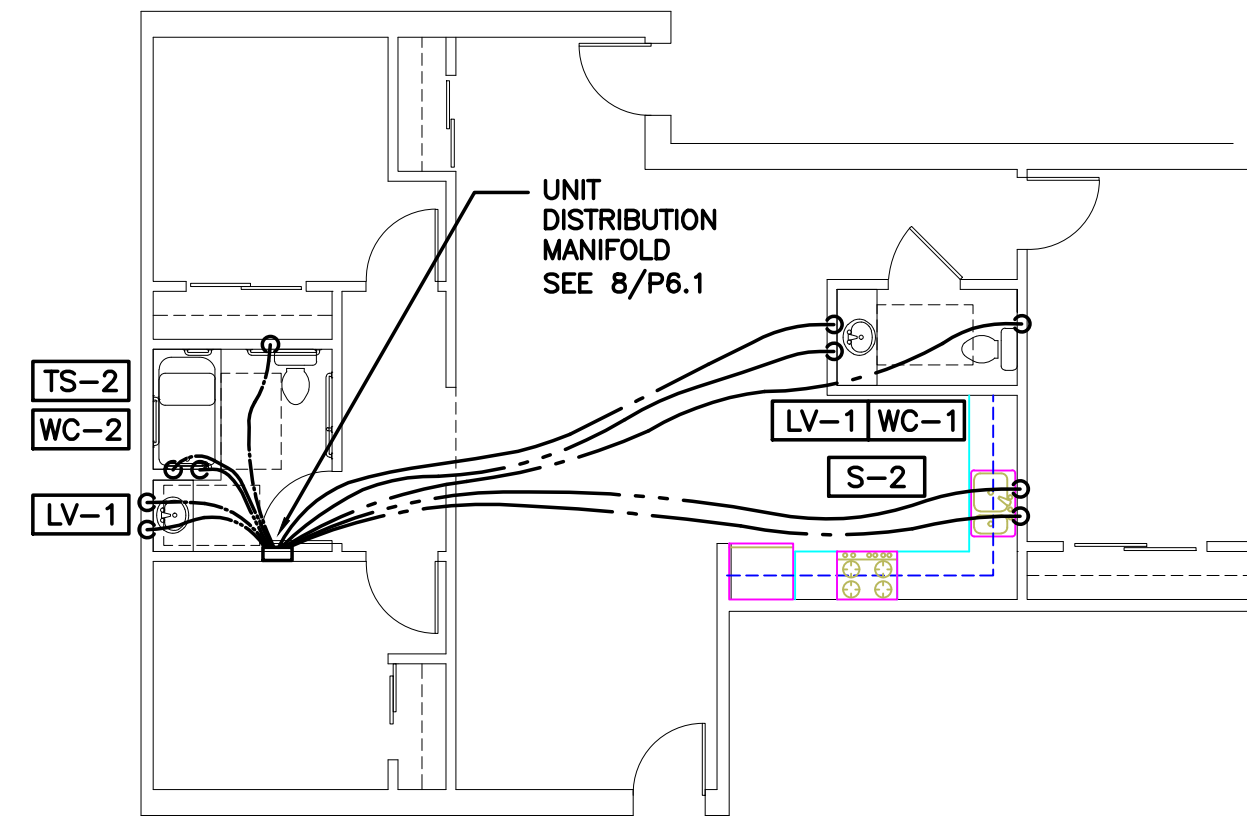
DETAILS

P6.1

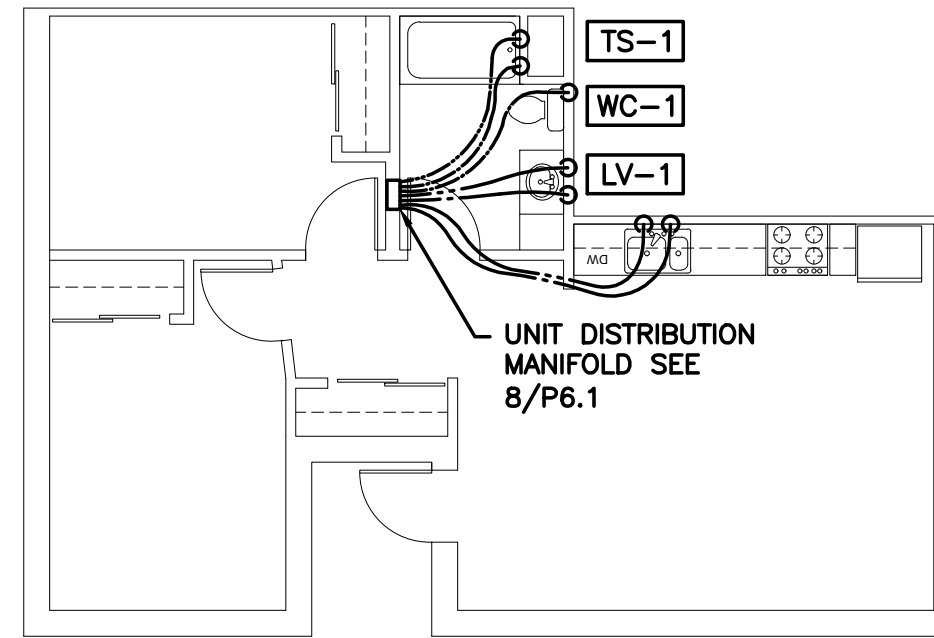
PERMIT SET

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
INC. WWW.MFI-ENG.COM
CONTACT: Takako Baker

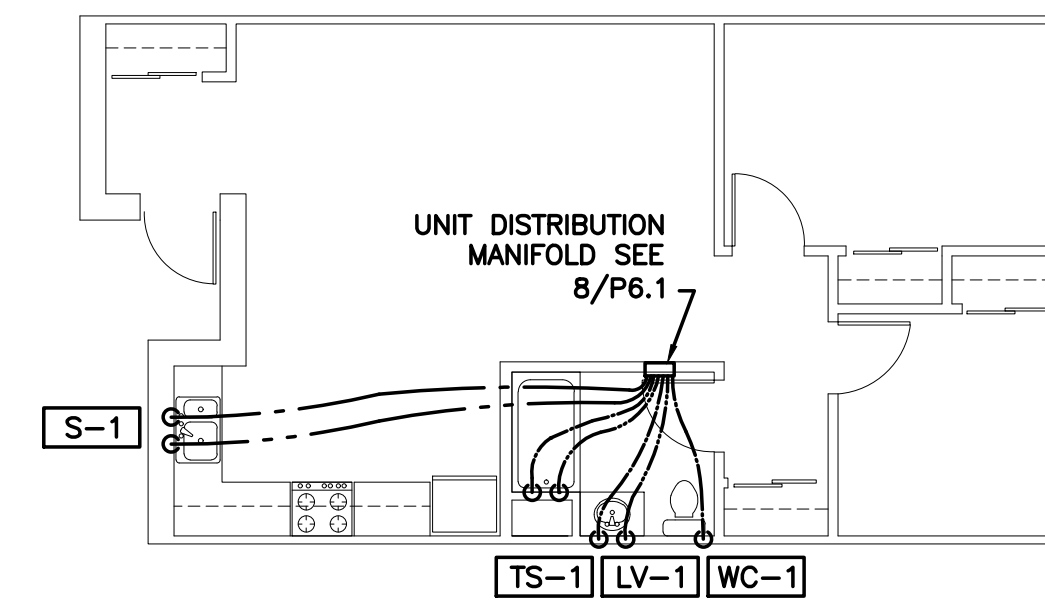
MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 www.merrymanbarnesarchitects.com



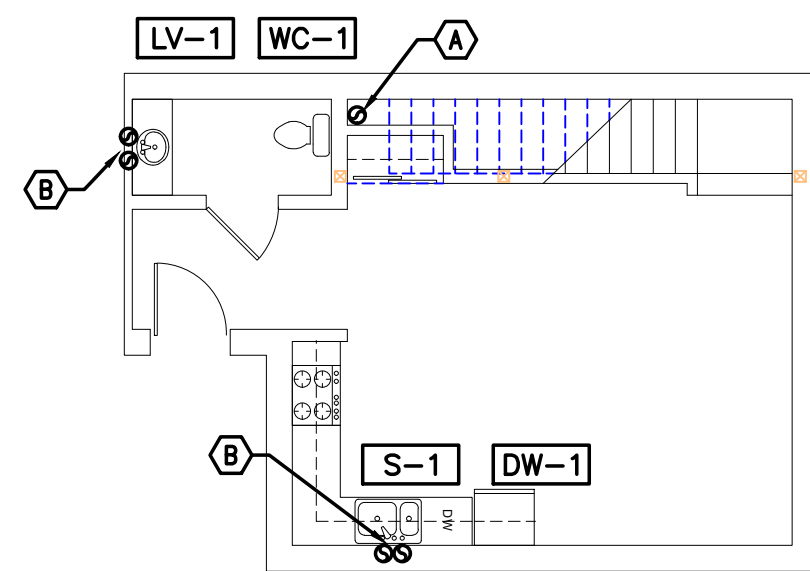
1 GROUND 3BD/1.5 BA ADA
P6.2 SCALE: 1/8"=1'-0"



2 GROUND END 2BD/1BA
P6.2 SCALE: 1/8"=1'-0"

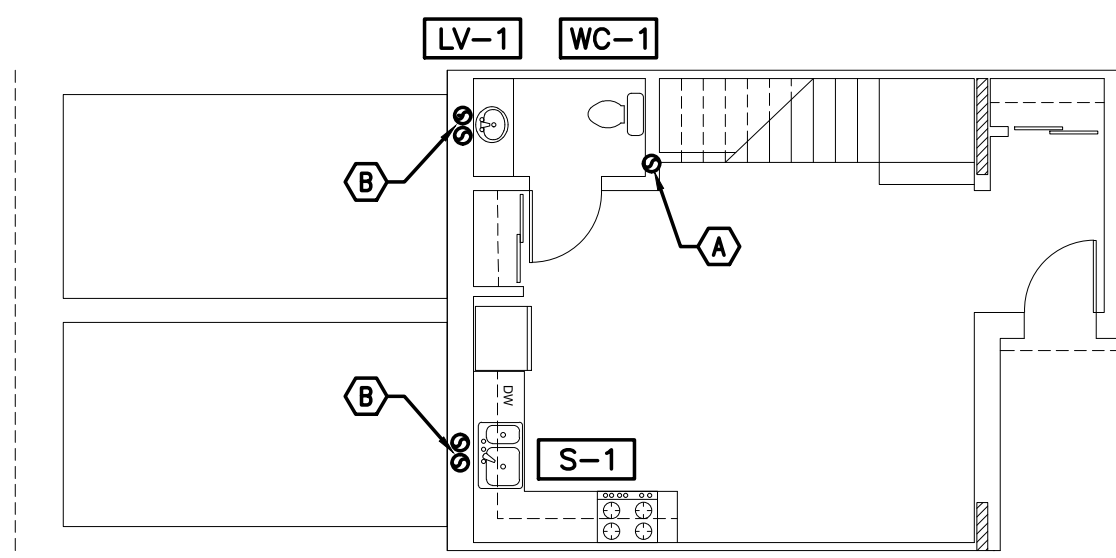


3 GROUND 2BD/1BA
P6.2 SCALE: 1/8"=1'-0"



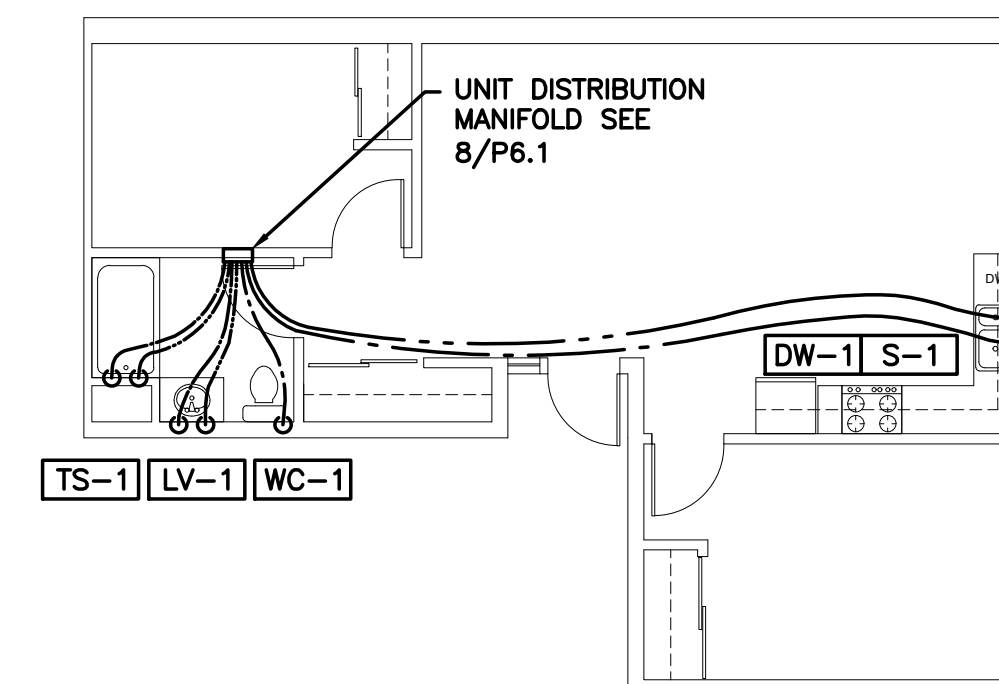
FIRST FLOOR

- KEYED NOTES:
 (A) - 1/2" CW UP TO 2ND FLOOR
 (B) - 1/2" CW & 1/2" HW UP TO 2ND FLOOR

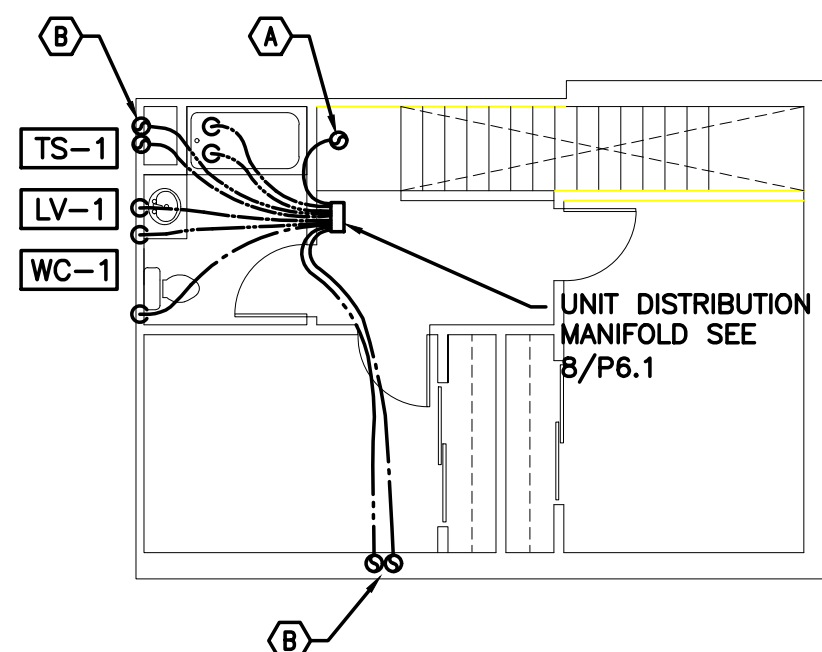


FIRST FLOOR

- KEYED NOTES:
 (A) - 1/2" CW UP TO 2ND FLOOR
 (B) - 1/2" CW & 1/2" HW UP TO 2ND FLOOR

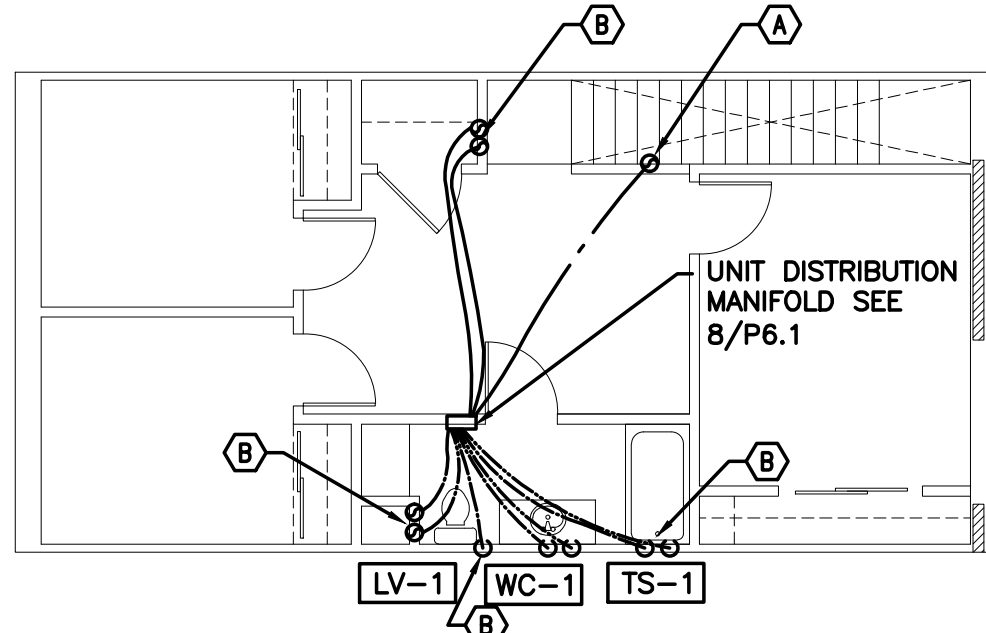


6 2ND, 3RD AND 4TH FLOORS CORNER 2BD/1BA
P6.2 SCALE: 1/8"=1'-0"



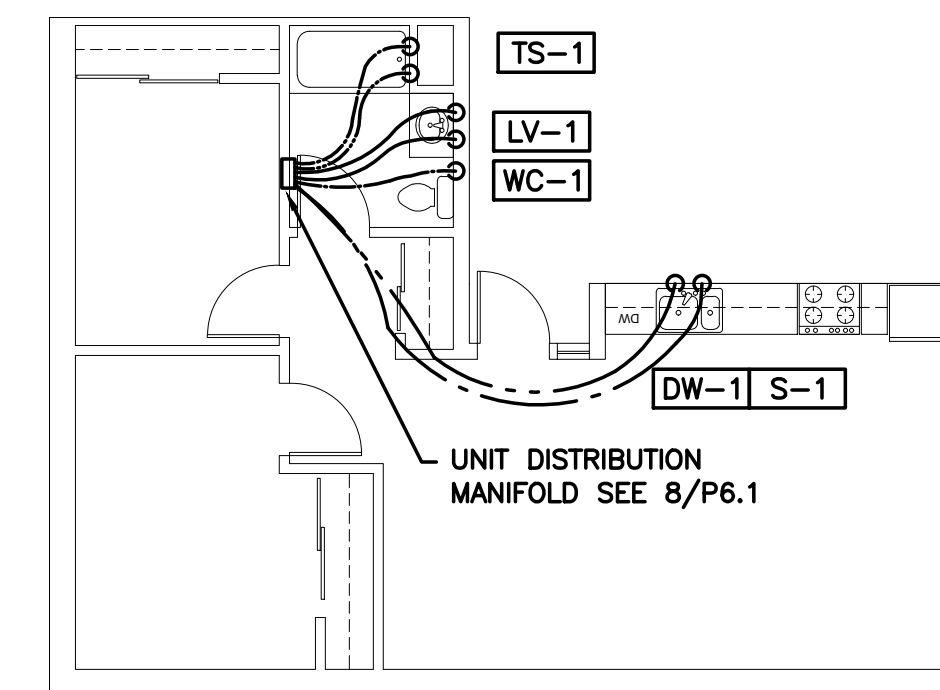
SECOND FLOOR

- KEYED NOTES:
 (A) - 1/2" CW DN TO 1ST FLOOR
 (B) - 1/2" CW & 1/2" HW DN TO 1ST FLOOR

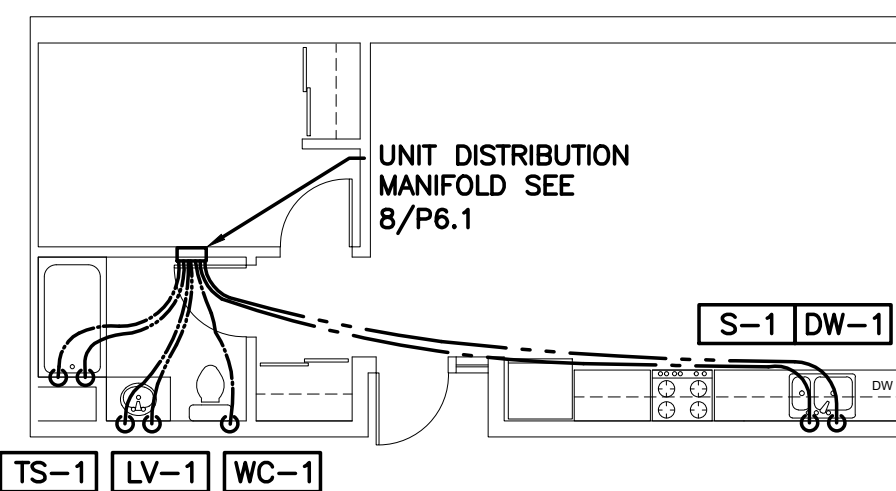


SECOND FLOOR

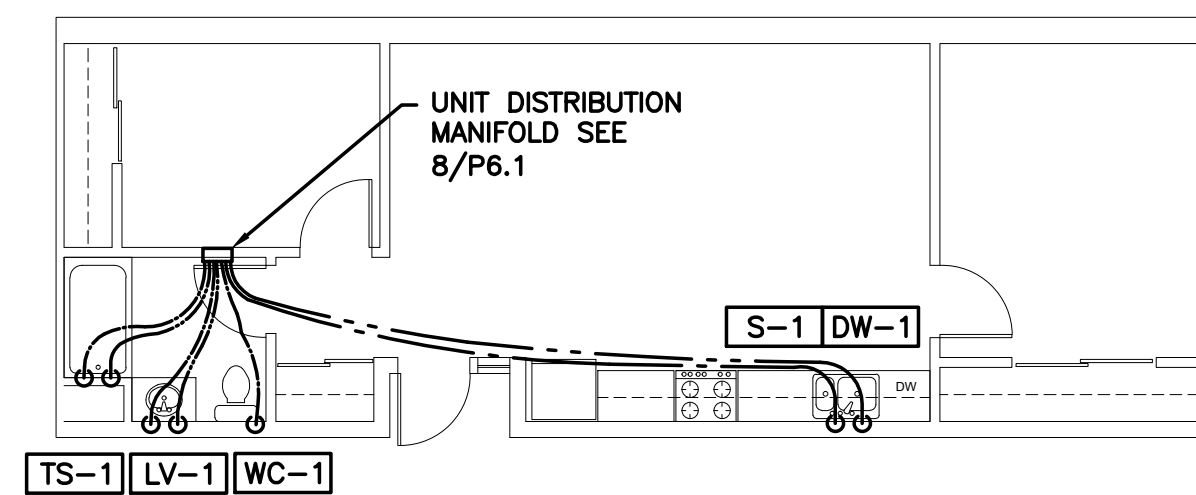
- KEYED NOTES:
 (A) - 1/2" CW DN TO 1ST FLOOR
 (B) - 1/2" CW & 1/2" HW DN TO 1ST FLOOR



7 2ND, 3RD AND 4TH FLOORS FLAT 2BD/1BA
P6.2 SCALE: 1/8"=1'-0"



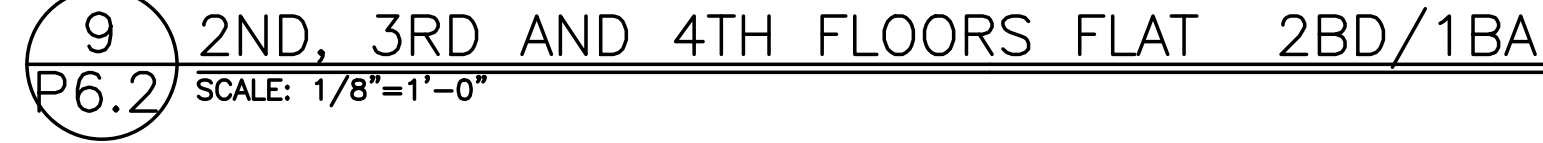
4 2BD/1.5BA TOWNHOUSE DETAIL
P6.2 SCALE: 1/8"=1'-0"



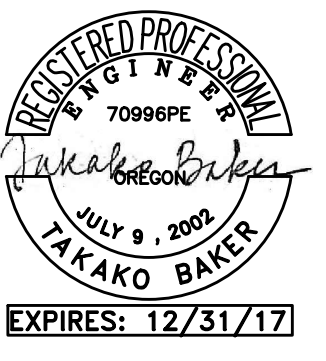
5 3BD/1.5BA TOWNHOUSE DETAIL
P6.2 SCALE: 1/8"=1'-0"



8 2ND, 3RD AND 4TH FLOORS FLAT 1BD/1BA
P6.2 SCALE: 1/8"=1'-0"



9 2ND, 3RD AND 4TH FLOORS FLAT 2BD/1BA
P6.2 SCALE: 1/8"=1'-0"



KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

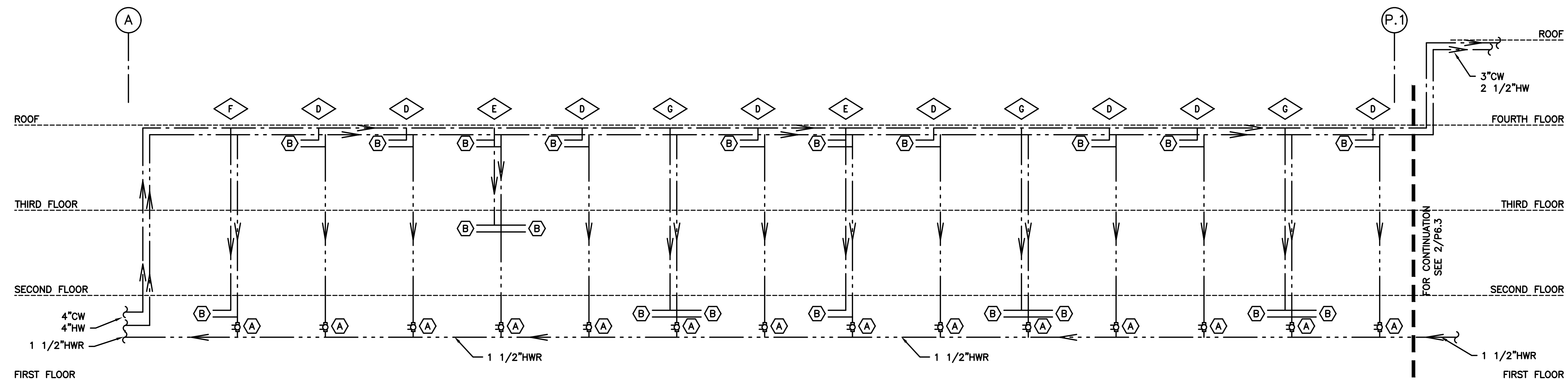
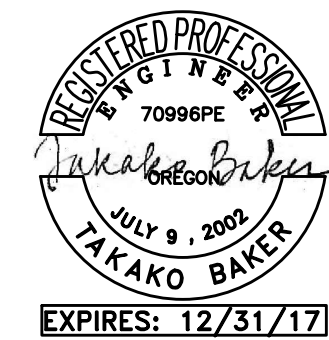
MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE. SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753
 www.merrymanbarnesarchitects.com



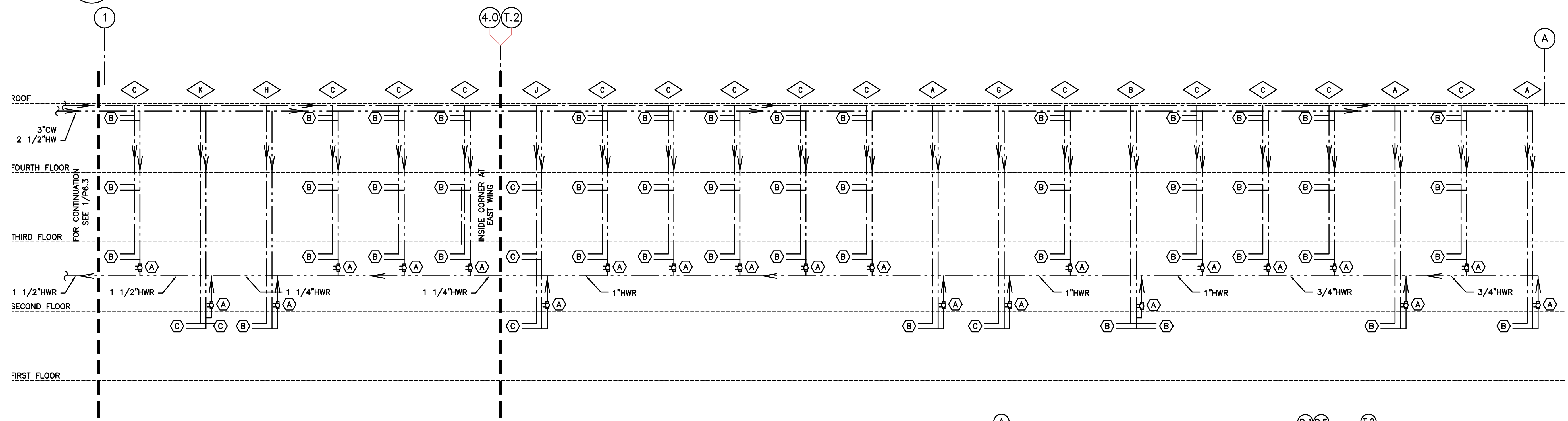
PROJECT NO. 16-0602 ISSUE DATE 11.15.2017
 REVISIONS

SHEET ENLARGED PLANS
P6.2
 PERMIT SET
 © MERRYMAN BARNES ARCHITECTS, INC.

MERRYMAN BARNES ARCHITECTS
 Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0518
 FAX: (503) 234-0677
 INC. WWW.MBIA-ENG.COM
 CONTACT: Takako Baker

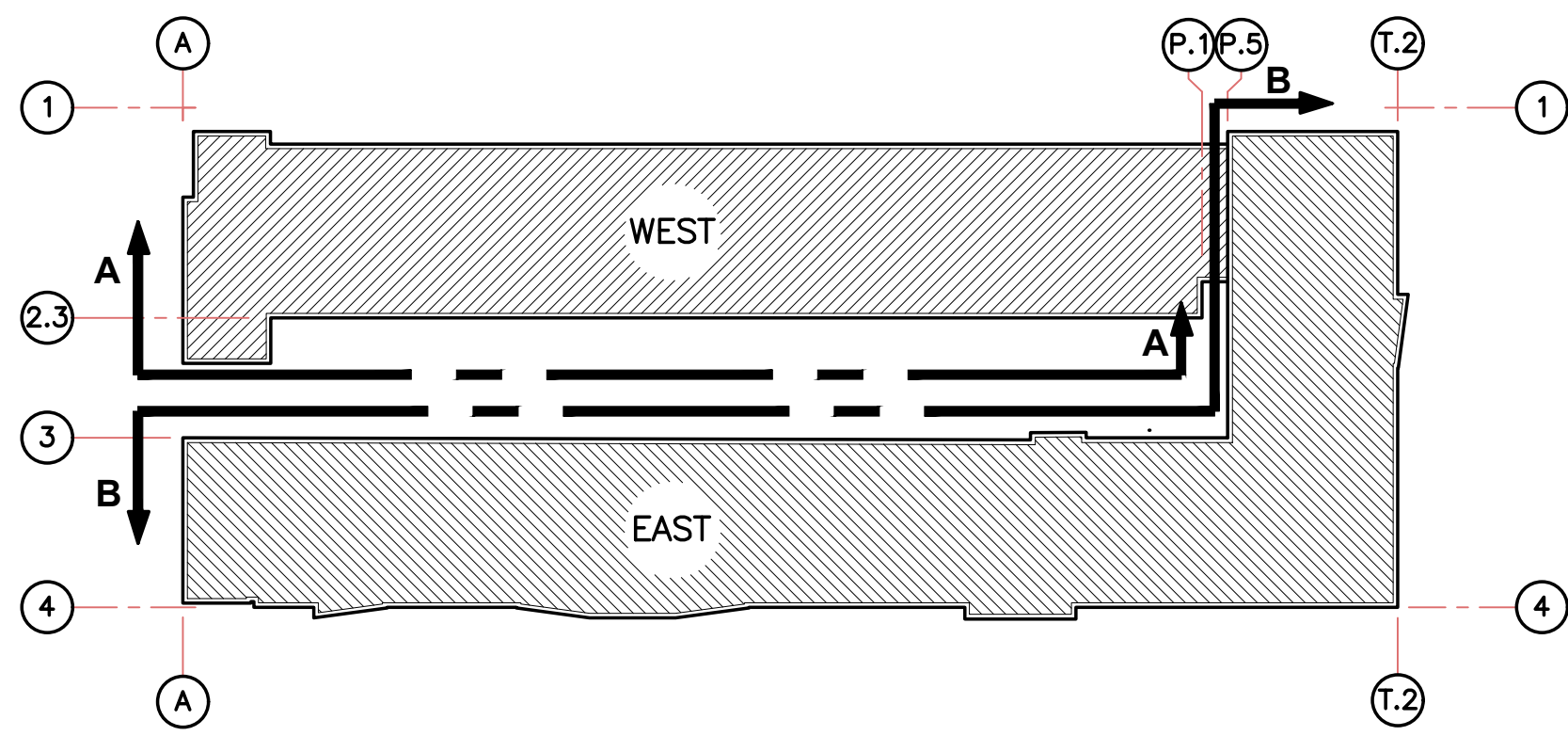


A DOMESTIC WATER PIPING SCHEMATIC—WEST WING
P6.3 NO SCALE



B DOMESTIC WATER PIPING SCHEMATIC—EAST WING
P6.3 NO SCALE

- KEYED NOTES:**
- (A) - BALANCING VALVE SET TO 0.5 GPM.
 - (B) - UNIT DISTRIBUTION MANIFOLD SEE 8/P6.1
 - (C) - PROVIDE SHUT-OFF VALVE(S).



C KEY PLAN
P6.3 NO SCALE

MFI Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0518
FAX: (503) 234-0677
INC. WWW.MFI-ENG.COM
CONTACT: Takako Baker

KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211

PROJECT NO. 16-0602 ISSUE DATE 11.15.2017

DOMESTIC WATER DIAGRAM
P6.3

PERMIT SET
© MERRYMAN BARNES ARCHITECTS, INC.



MERRYMAN BARNES ARCHITECTS 4713 N ALBINA AVE SUITE 304 PORTLAND, OREGON 97217 P. 503.222.3753 WWW.MERRYMANBARNESARCHITECTS.COM