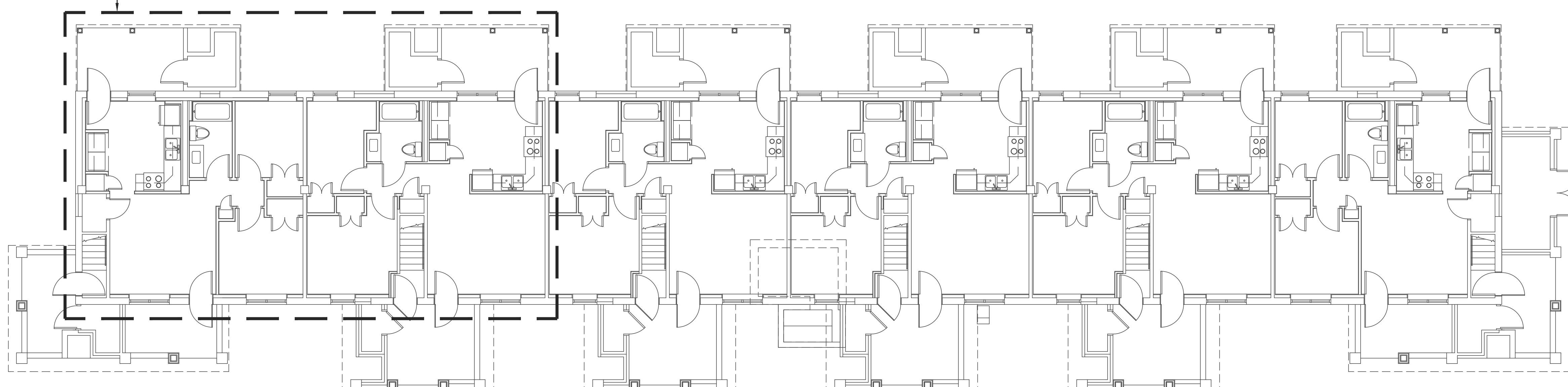


BUILDING 'K' SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



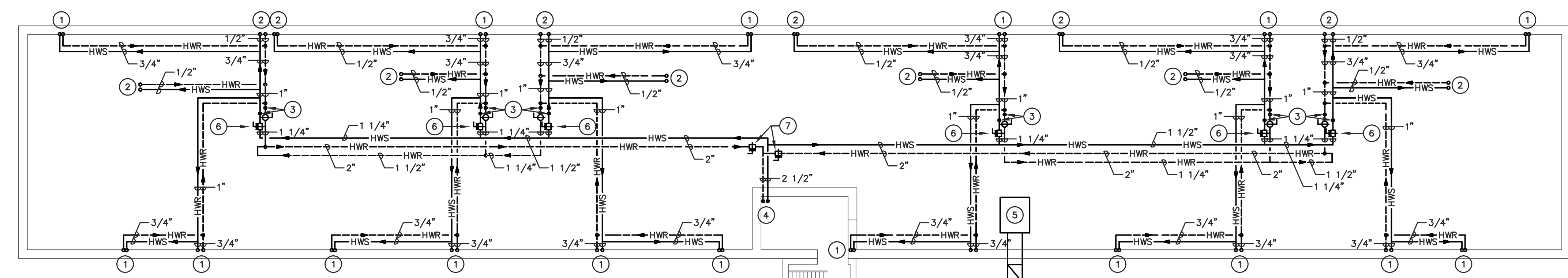
BUILDING 'K' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

CRAWL SPACE PLAN NOTES

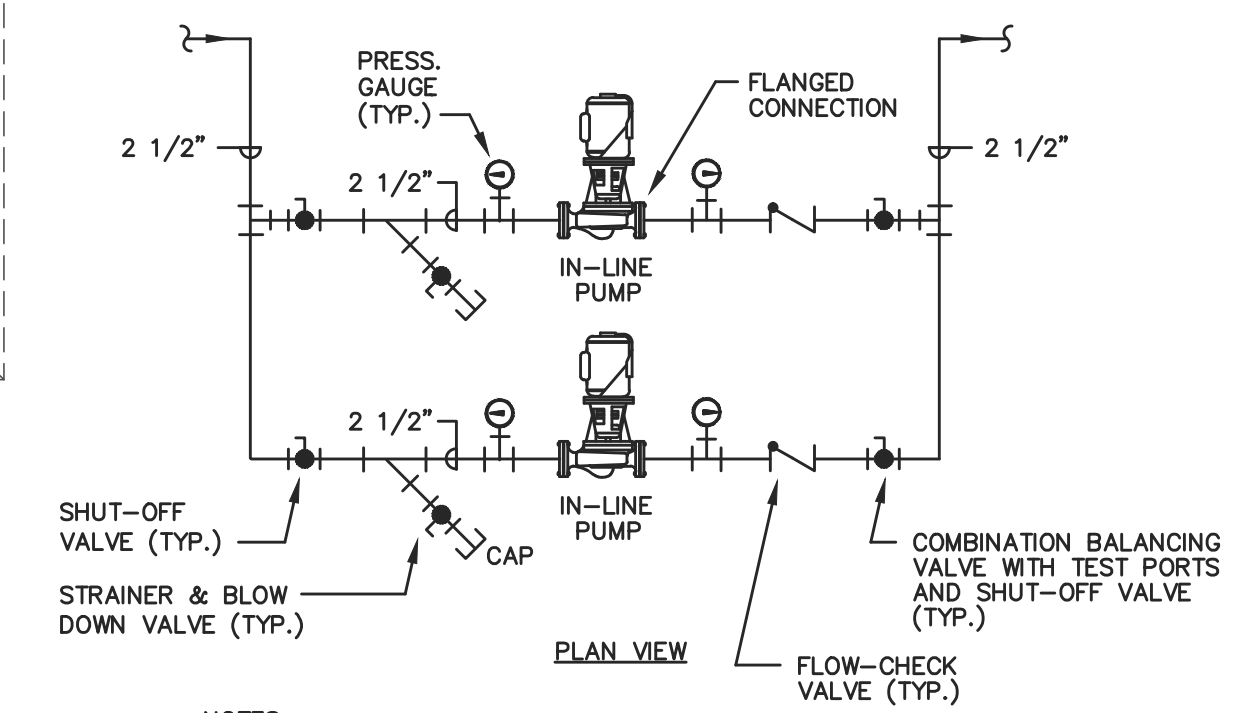
1. 3/4" HWR&S UP TO THE FLOOR ABOVE.
2. 1/2" HWR&S UP TO THE FLOOR ABOVE.
3. PROVIDE 1/2" DRAIN PIPE AND VALVE DOWN OFF OF HWR&S PIPES.
4. SEE TYPICAL PARTIAL MECHANICAL SPACE THIS DRAWING FOR CONTINUATION OF PIPING IN THIS AREA.
5. EXISTING EXHAUST FAN, ACCESSORIES AND DUCT TO REMAIN.
6. BALANCE FOR 8.0 GPM.
7. BALANCE FOR 24.0 GPM.

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. REFER TO H107 FOR EQUIPMENT DETAILS & SHUT-OFF VALVES.



BUILDING 'K' CRAWL SPACE PLAN
SCALE: 1/8" = 1'-0"



- NOTES
1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR ON VERTICAL OR HORIZONTAL IN-LINE PUMPS.

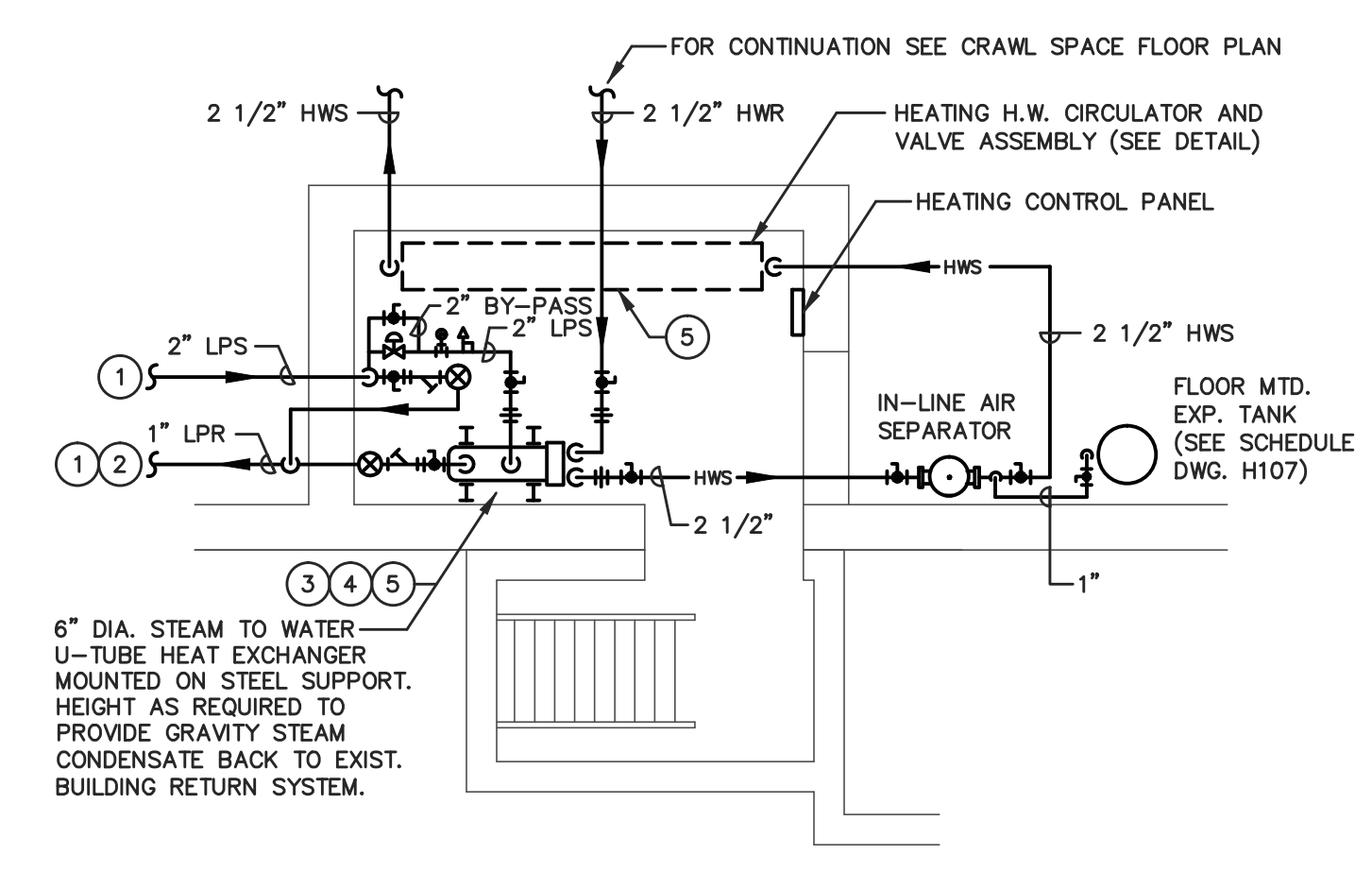
TYPICAL HEATING H.W. CIRCULATOR AND VALVE ASSEMBLY DETAIL
NO SCALE

MECHANICAL ROOM PLAN NOTES

1. CONTINUE NEW LPS&R TO POINT OF DISCONNECT OF EXISTING LPS&R PIPING AND CONNECT NEW LPS&R TO EXISTING LPS&R PIPE. CONTRACTOR TO VERIFY LOCATION IN FIELD.
2. PROVIDE A MINIMUM OF 1% SLOPE.
3. INSTALL HEAT EXCHANGER ON MINIMUM 4" CONCRETE PAD & STEEL FRAMING, COORDINATE HEAT EXCHANGER HEIGHT IN THE FIELD. (SEE DETAIL DWG. H107)
4. FIELD COORDINATE HEIGHT OF HEAT EXCHANGER SO THAT THE TUBE PULL WILL CLEAR BELOW ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, AND WIRING.
5. BUILDING "K" & "L" - P-9 & P-10 AND HX-5
BUILDING "M" - P-11 & P-12 AND HX-6
(SEE SCHEDULE DWG. H107)

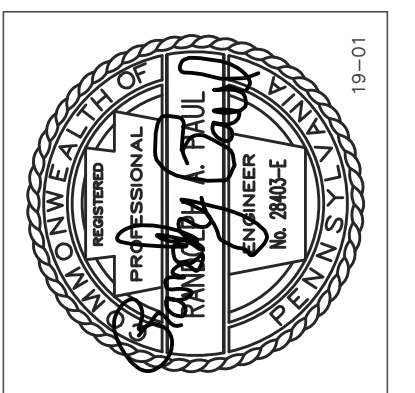
GENERAL NOTE

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) - 1/2"(1.0) - FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



BUILDING 'K' MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

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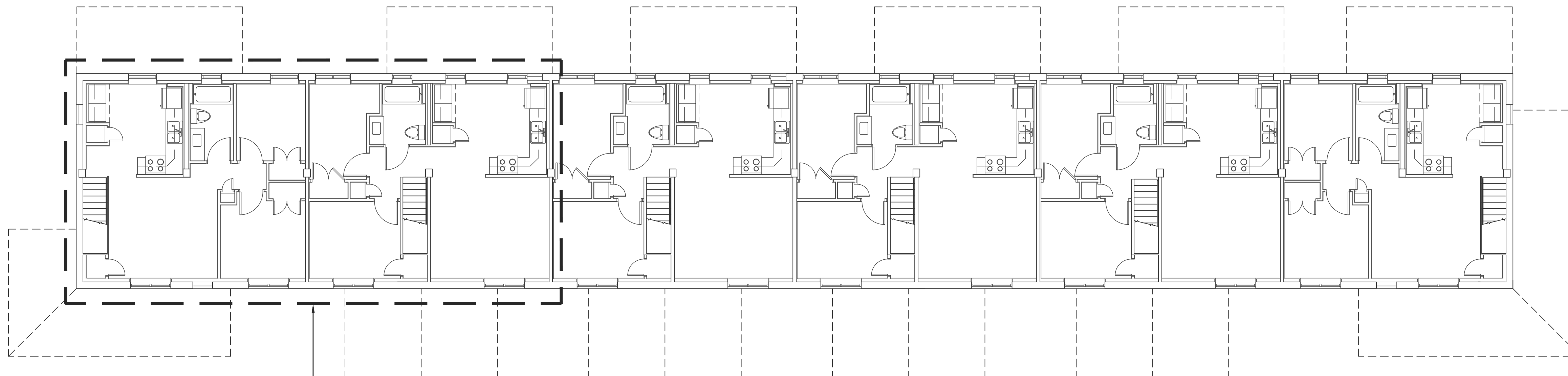


WILLIAM HOWARD DAY HOMES
RENOVATIONS - BUILDINGS K, L & M
HARRISBURG HOUSING AUTHORITY
BUILDING K
FLOOR PLANS - HVAC

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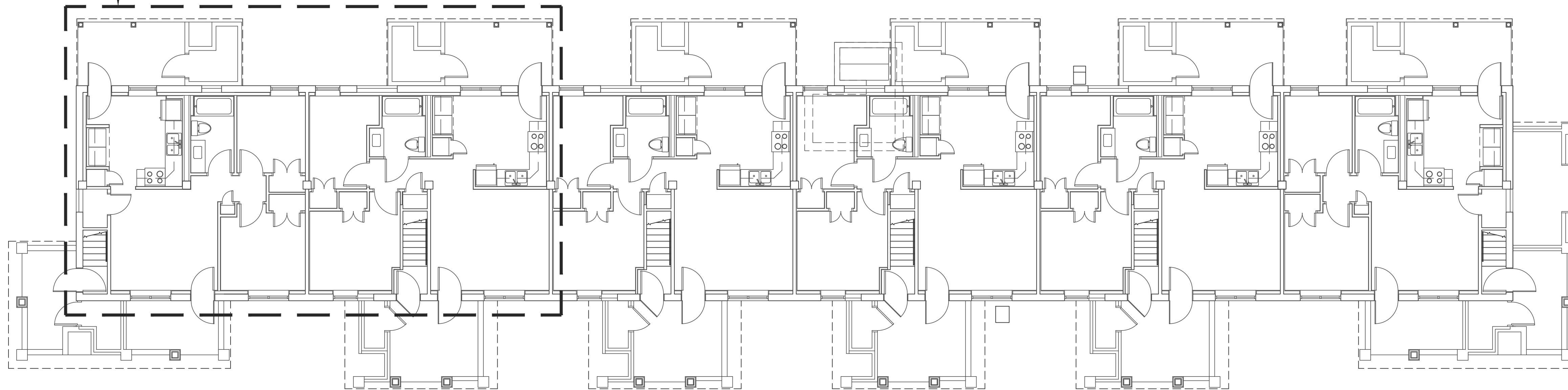
H101



BUILDING 'L' SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. H105 FOR HVAC WORK IN THIS AREA.



BUILDING 'L' FIRST FLOOR PLAN

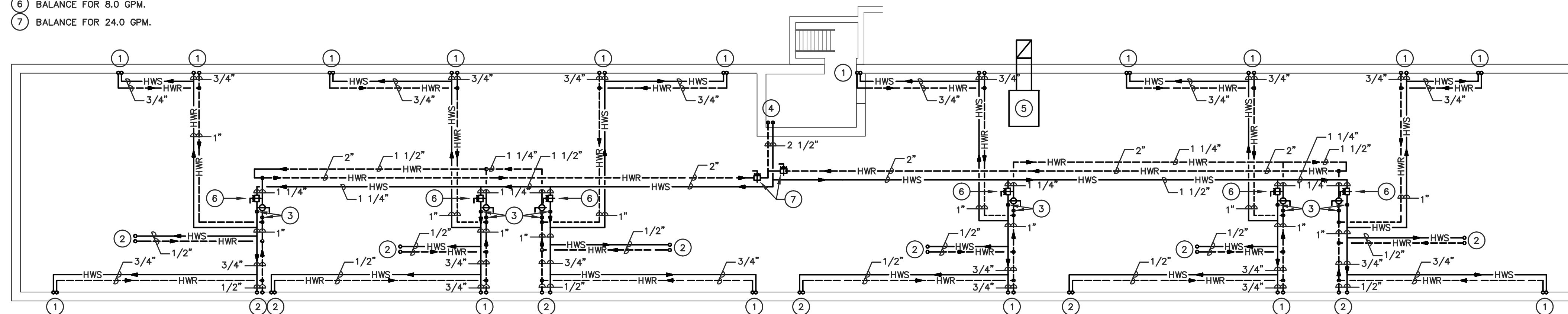
SCALE: 1/8" = 1'-0"

CRAWL SPACE PLAN NOTES

- 1 3/4" HWR&S UP TO THE FLOOR ABOVE.
- 2 1/2" HWR&S UP TO THE FLOOR ABOVE.
- 3 PROVIDE 1/2" DRAIN PIPE AND VALVE DOWN OFF OF HWR&S PIPES.
- 4 SEE TYPICAL PARTIAL MECHANICAL SPACE THIS DRAWING FOR CONTINUATION OF PIPING IN THIS AREA.
- 5 EXISTING EXHAUST FAN, ACCESSORIES AND DUCT TO REMAIN.
- 6 BALANCE FOR 8.0 GPM.
- 7 BALANCE FOR 24.0 GPM.

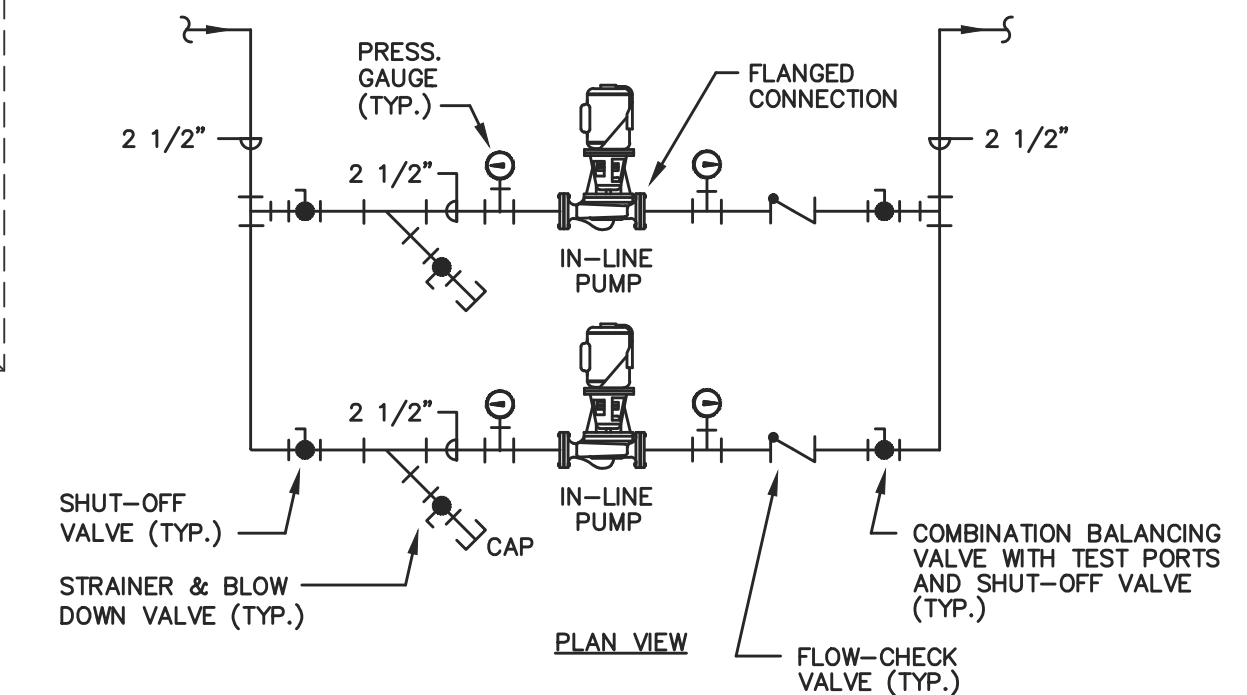
GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. REFER TO H107 FOR EQUIPMENT DETAILS & SHUT-OFF VALVES.



BUILDING 'L' CRAWL SPACE PLAN

SCALE: 1/8" = 1'-0"



NOTES

1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR ON VERTICAL OR HORIZONTAL IN-LINE PUMPS.

TYPICAL HEATING H.W. CIRCULATOR AND VALVE ASSEMBLY DETAIL

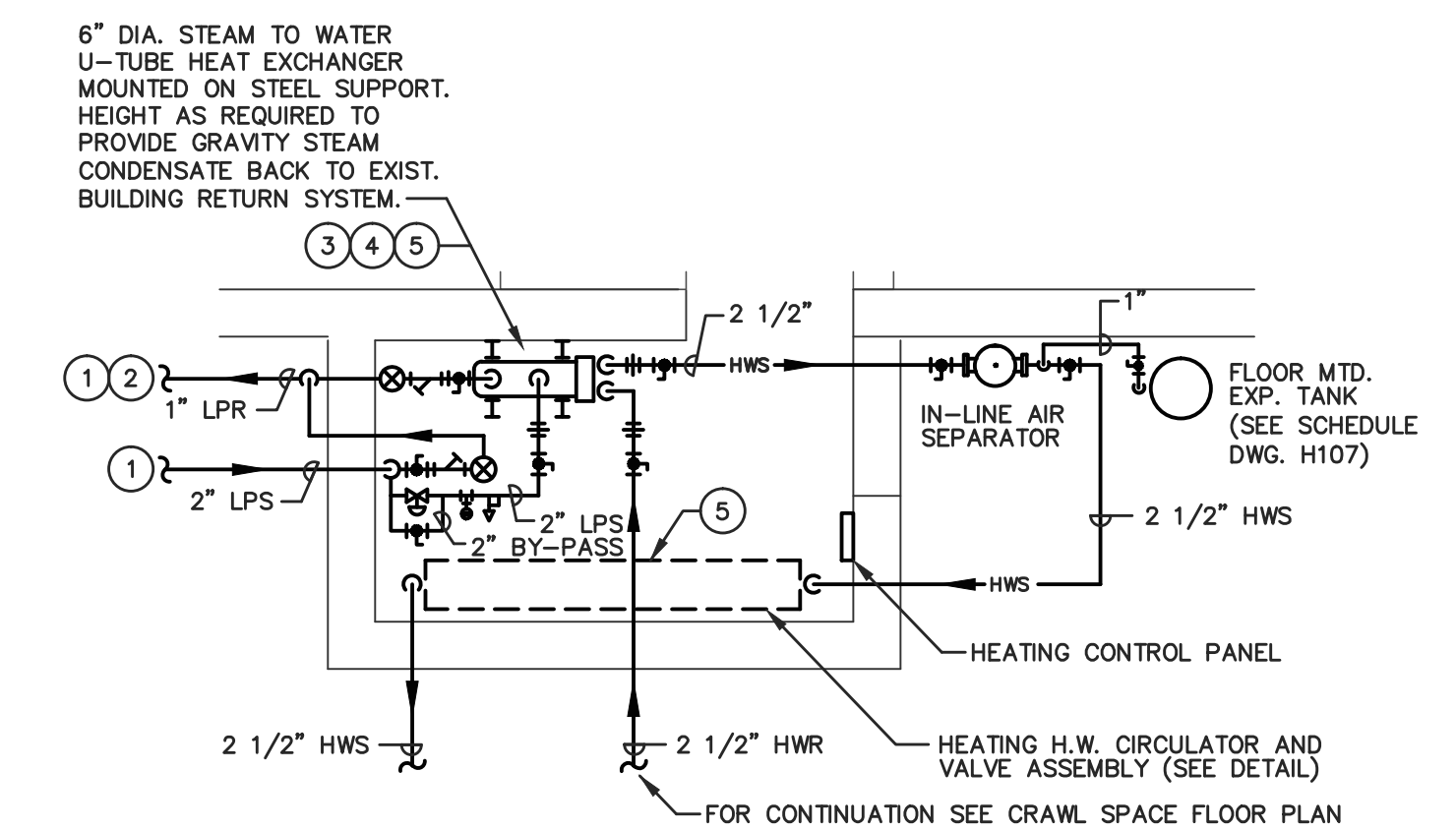
NO SCALE

PLAN NOTES

- 1 CONTINUE NEW LPS&R TO POINT OF DISCONNECT OF EXISTING LPS&R PIPING AND CONNECT NEW LPS&R TO EXISTING LPS&R PIPE. CONTRACTOR TO VERIFY LOCATION IN FIELD.
- 2 PROVIDE A MINIMUM OF 1X SLOPE.
- 3 INSTALL HEAT EXCHANGER ON MINIMUM 4" CONCRETE PAD & STEEL FRAMING. COORDINATE HEAT EXCHANGER HEIGHT IN THE FIELD. (SEE DETAIL DWG. H107)
- 4 FIELD COORDINATE HEIGHT OF HEAT EXCHANGER SO THAT THE TUBE PULL WILL CLEAR BELOW ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, AND WIRING.
- 5 BUILDING "K"&"L" - P-9 & P-10 AND HX-5
BUILDING "M" - P-11 & P-12 AND HX-6
(SEE SCHEDULE DWG. H107)

GENERAL NOTE

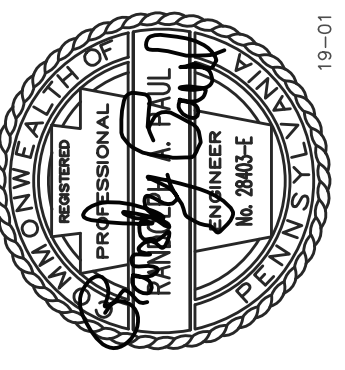
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) - 1/2"(1.0) - FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



BUILDING 'L' MECHANICAL ROOM PLAN

SCALE: 1/4" = 1'-0"

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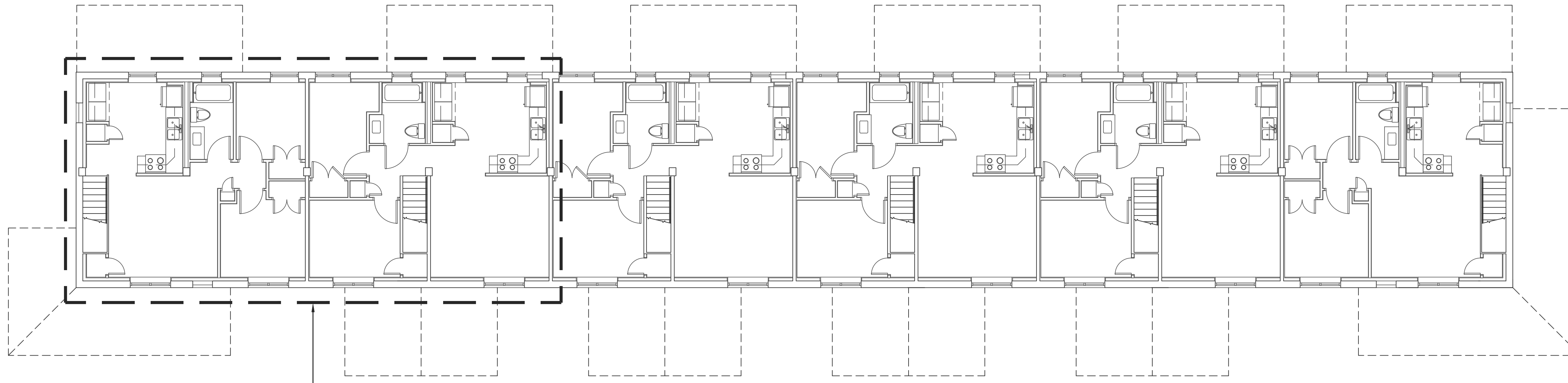
BUILDING L
FLOOR PLANS - HVAC

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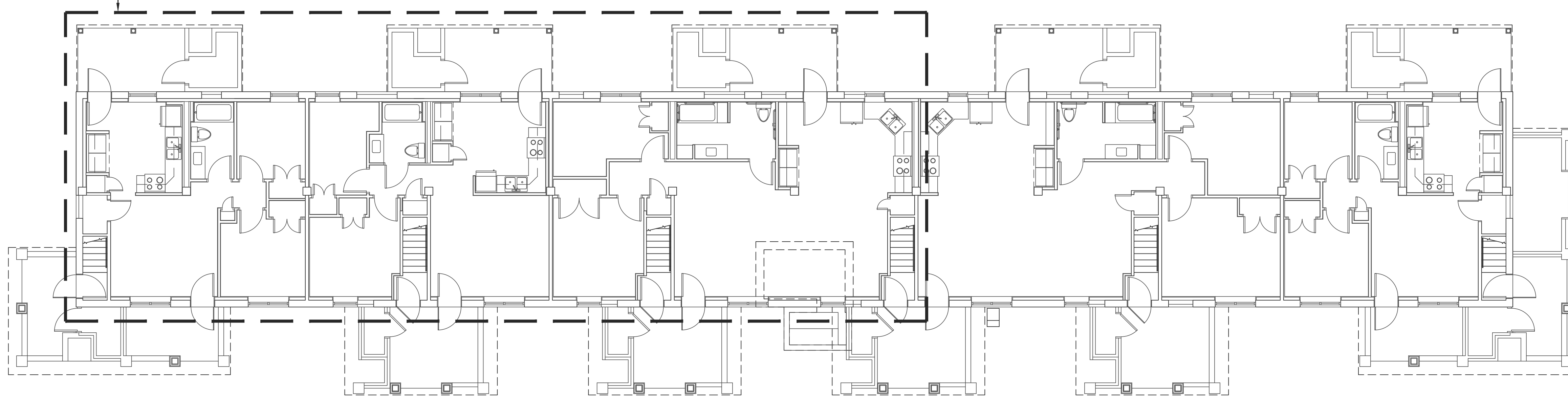
H102

BID DRAWINGS



BUILDING 'M' SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. H105 FOR HVAC WORK IN THIS AREA.



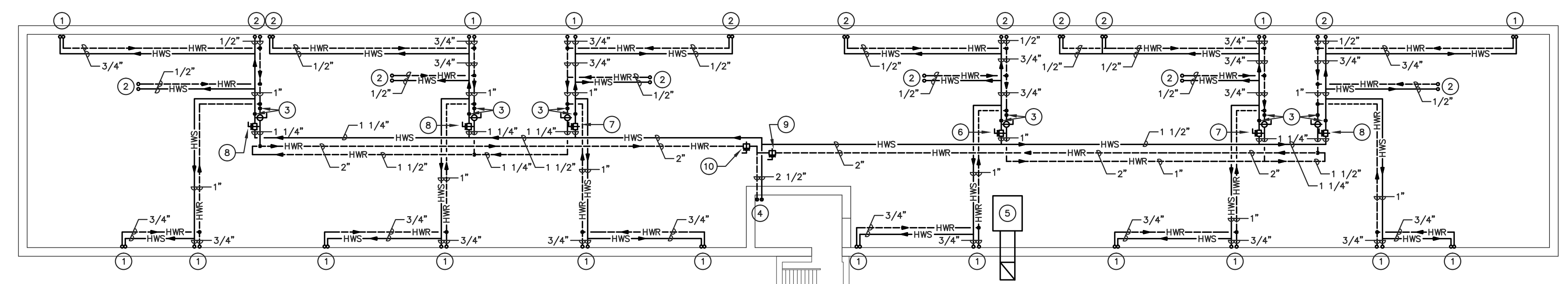
BUILDING 'M' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

CRAWL SPACE PLAN NOTES

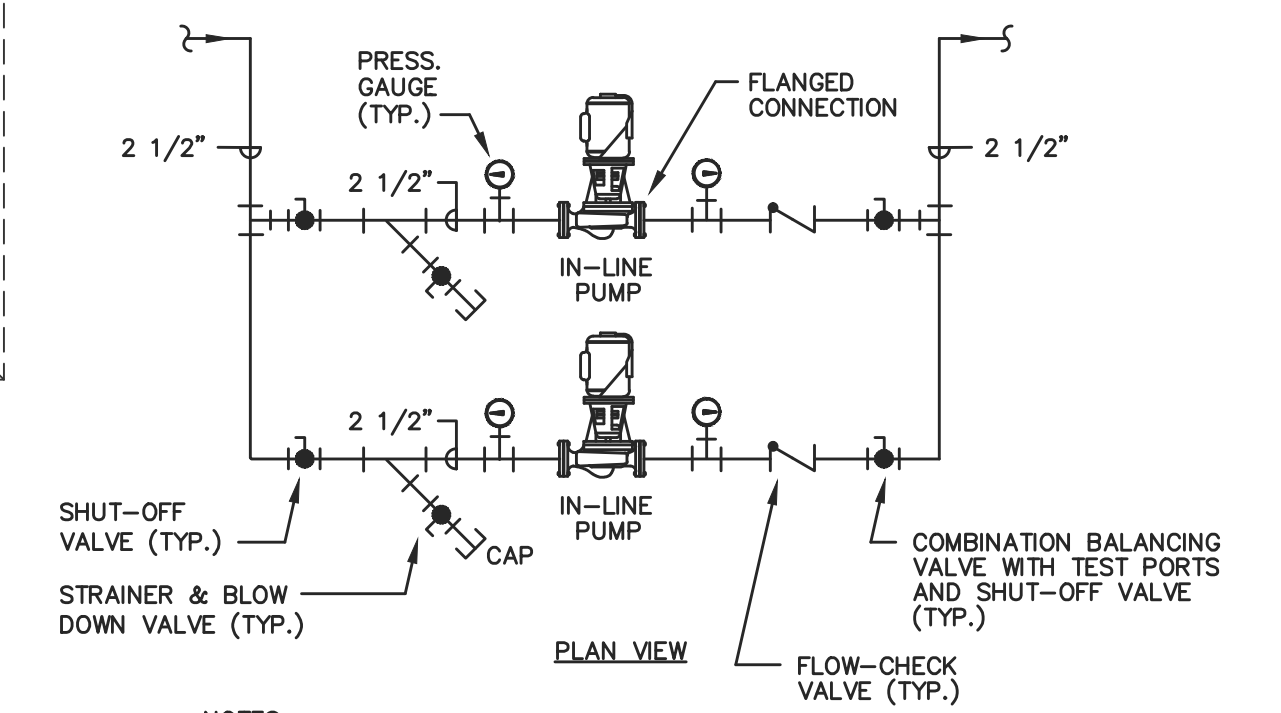
1. 3/4" HWR&S UP TO THE FLOOR ABOVE.
2. 1/2" HWR&S UP TO THE FLOOR ABOVE.
3. PROVIDE 1/2" DRAIN PIPE AND VALVE DOWN OFF OF HWR&S PIPES.
4. SEE TYPICAL PARTIAL MECHANICAL SPACE THIS DRAWING FOR CONTINUATION OF PIPING IN THIS AREA.
5. EXISTING EXHAUST FAN, ACCESSORIES AND DUCT TO REMAIN.
6. BALANCE FOR 7.0 GPM.
7. BALANCE FOR 7.5 GPM.
8. BALANCE FOR 8.0 GPM.
9. BALANCE FOR 22.5 GPM.
10. BALANCE FOR 23.5 GPM.

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. REFER TO H107 FOR EQUIPMENT DETAILS & SHUT-OFF VALVES.



BUILDING 'K' CRAWL SPACE PLAN
SCALE: 1/8" = 1'-0"



- NOTES**
1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR ON VERTICAL OR HORIZONTAL IN-LINE PUMPS.

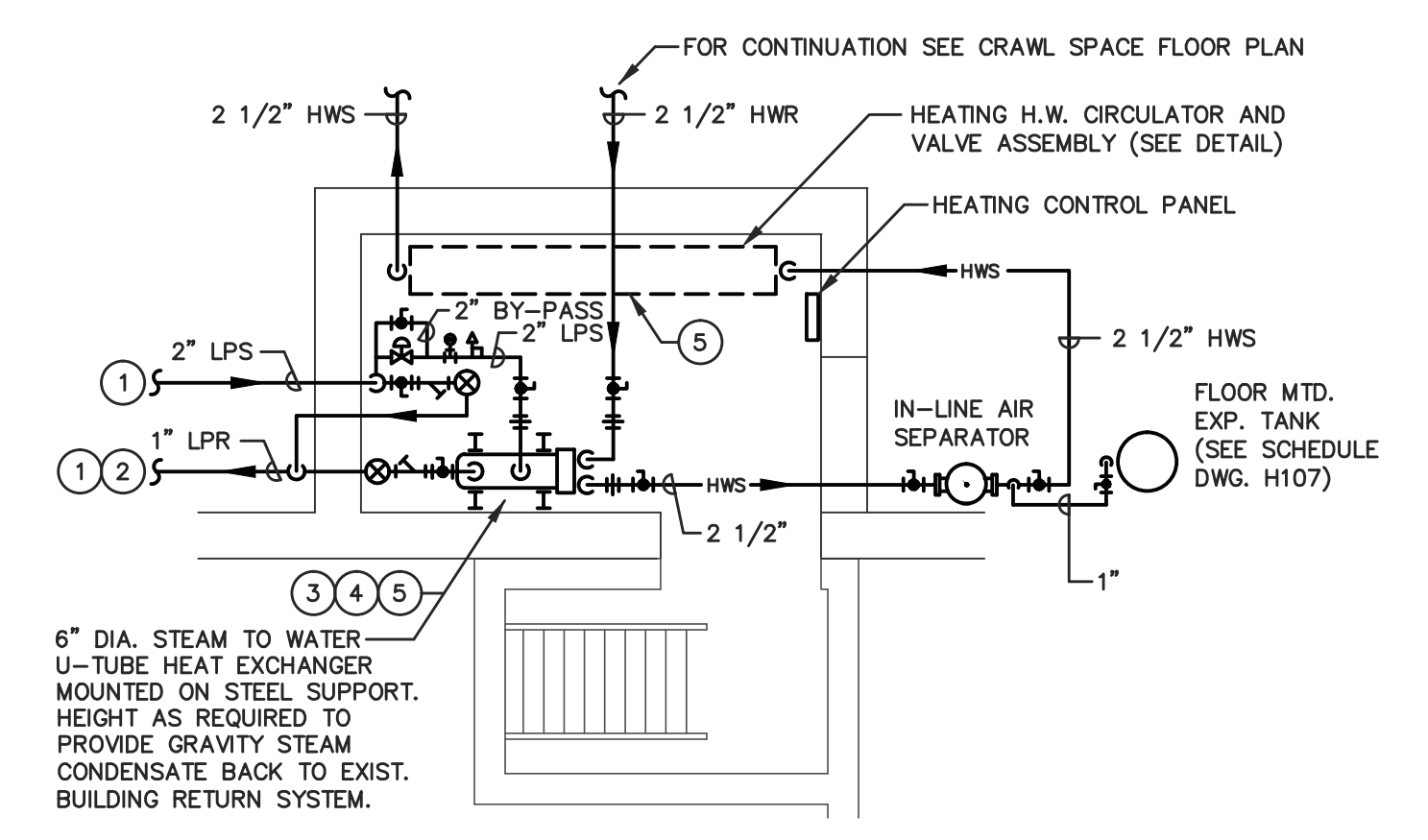
TYPICAL HEATING H.W. CIRCULATOR AND VALVE ASSEMBLY DETAIL
NO SCALE

MECHANICAL ROOM PLAN NOTES

1. CONTINUE NEW LPS&R TO POINT OF DISCONNECT OF EXISTING LPS&R PIPING AND CONNECT NEW LPS&R TO EXISTING LPS&R PIPE. CONTRACTOR TO VERIFY LOCATION IN FIELD.
2. PROVIDE A MINIMUM OF 1% SLOPE.
3. INSTALL HEAT EXCHANGER ON MINIMUM 4" CONCRETE PAD & STEEL FRAMING. COORDINATE HEAT EXCHANGER HEIGHT IN THE FIELD. (SEE DETAIL DWG. H107)
4. FIELD COORDINATE HEIGHT OF HEAT EXCHANGER SO THAT THE TUBE PULL WILL CLEAR BELOW ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, AND WIRING.
5. BUILDING "K"&"L" - P-9 & P-10 AND HX-5
BUILDING "M" - P-11 & P-12 AND HX-6
(SEE SCHEDULE DWG. H107)

GENERAL NOTE

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) → 1/2"(1.0) ← FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



BUILDING 'M' MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

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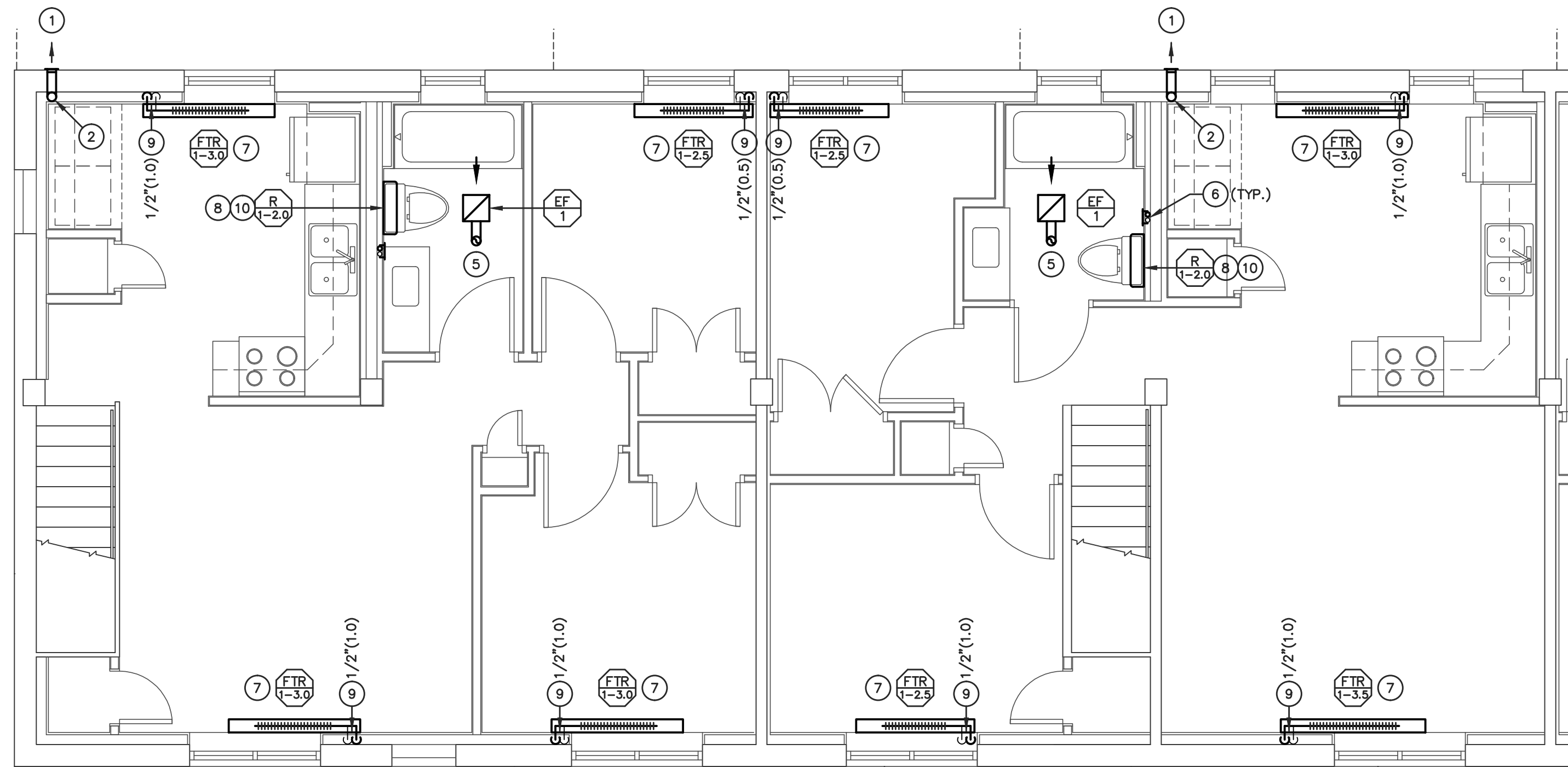
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RENOVATIONS - BUILDINGS K, L & M**
HARRISBURG HOUSING AUTHORITY
BUILDING M
FLOOR PLANS - HVAC

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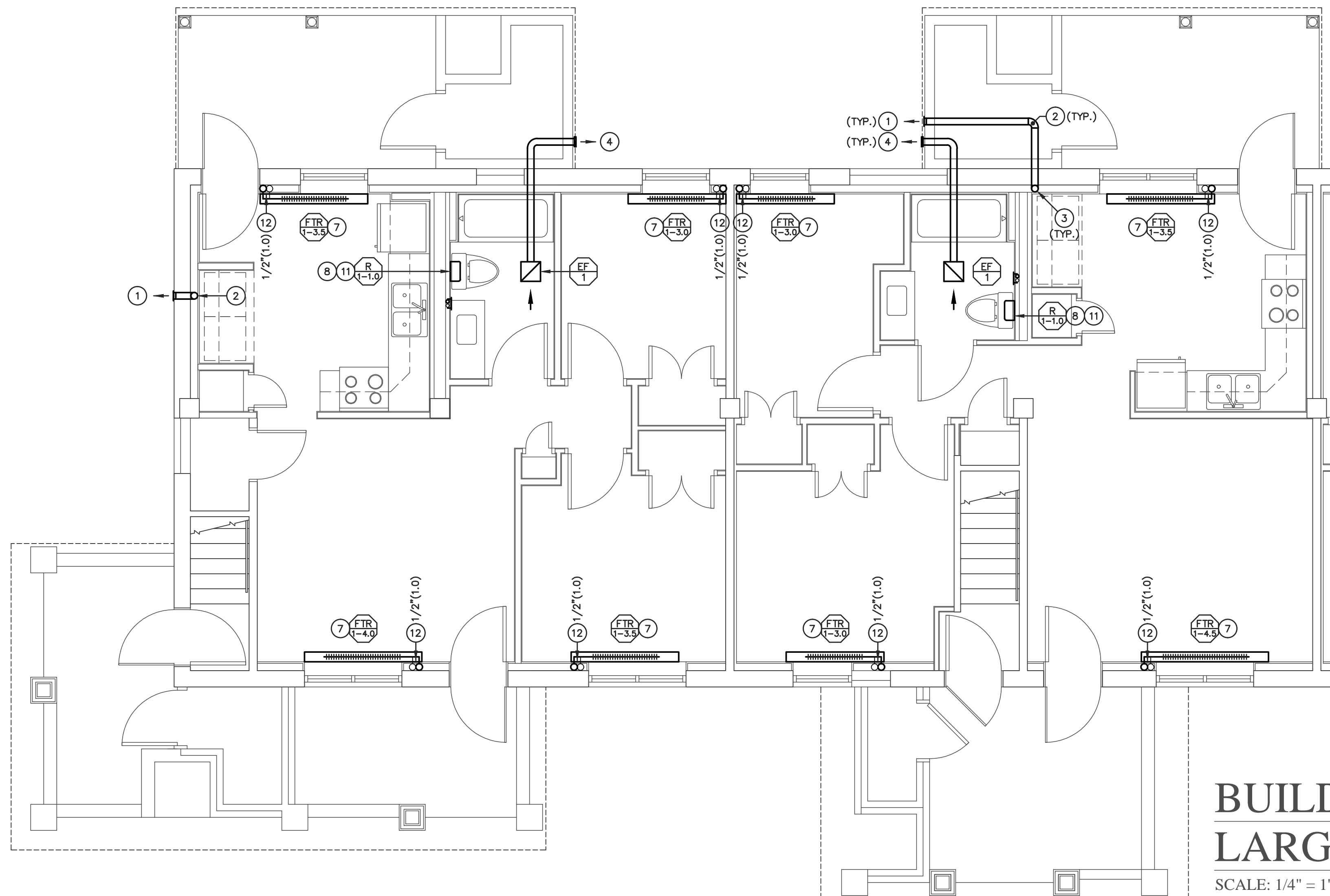
H103

BID DRAWINGS



BUILDING 'K' SECOND FLOOR - LARGE SCALE PLAN - HVAC

SCALE: 1/4" = 1'-0"



BUILDING 'K' FIRST FLOOR - LARGE SCALE PLAN - HVAC

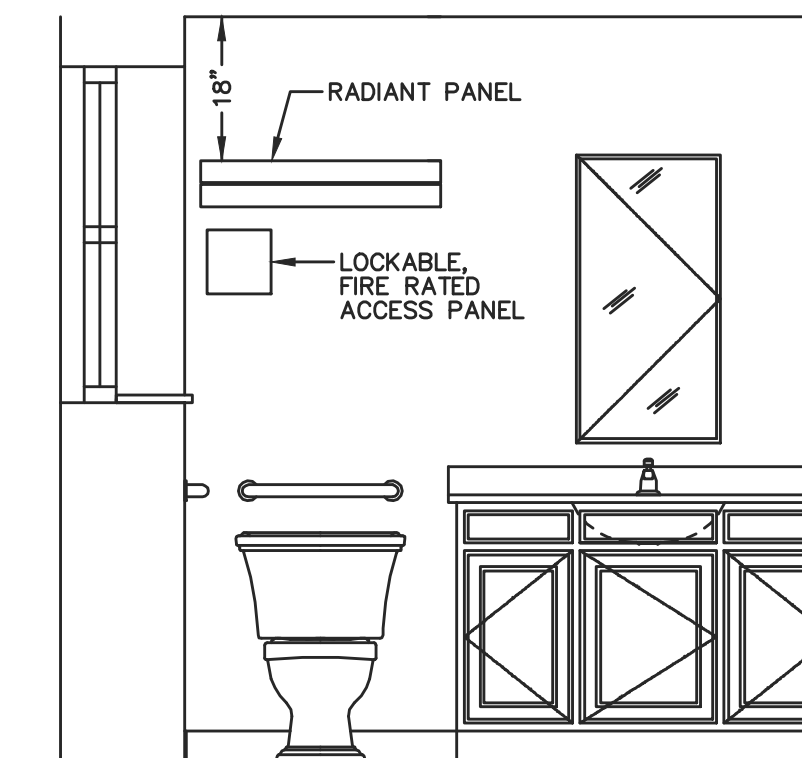
SCALE: 1/4" = 1'-0"

PLAN NOTES

- 1 PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION.
- 2 RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3 PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL.
- 4 PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- 5 RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATERTIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- 6 PROVIDE 10X10, FIRE RATED, TAMPERPROOF AND LOCKABLE ACCESS DOOR.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR. SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION.
- 10 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- 11 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 12 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

GENERAL NOTE

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) → 1/2" (1.0) → FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



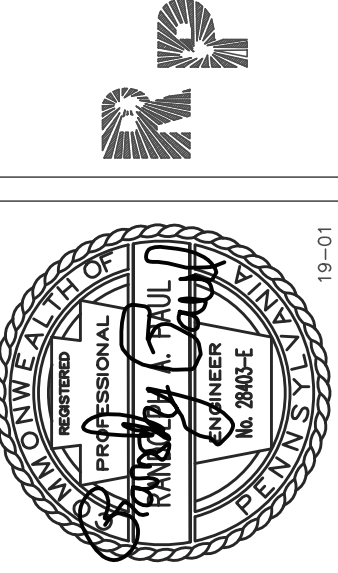
NOTES:

1. TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR RADIATOR LOCATIONS.

RADIATOR ABOVE TOILET

SCALE: 1/2" = 1'-0"

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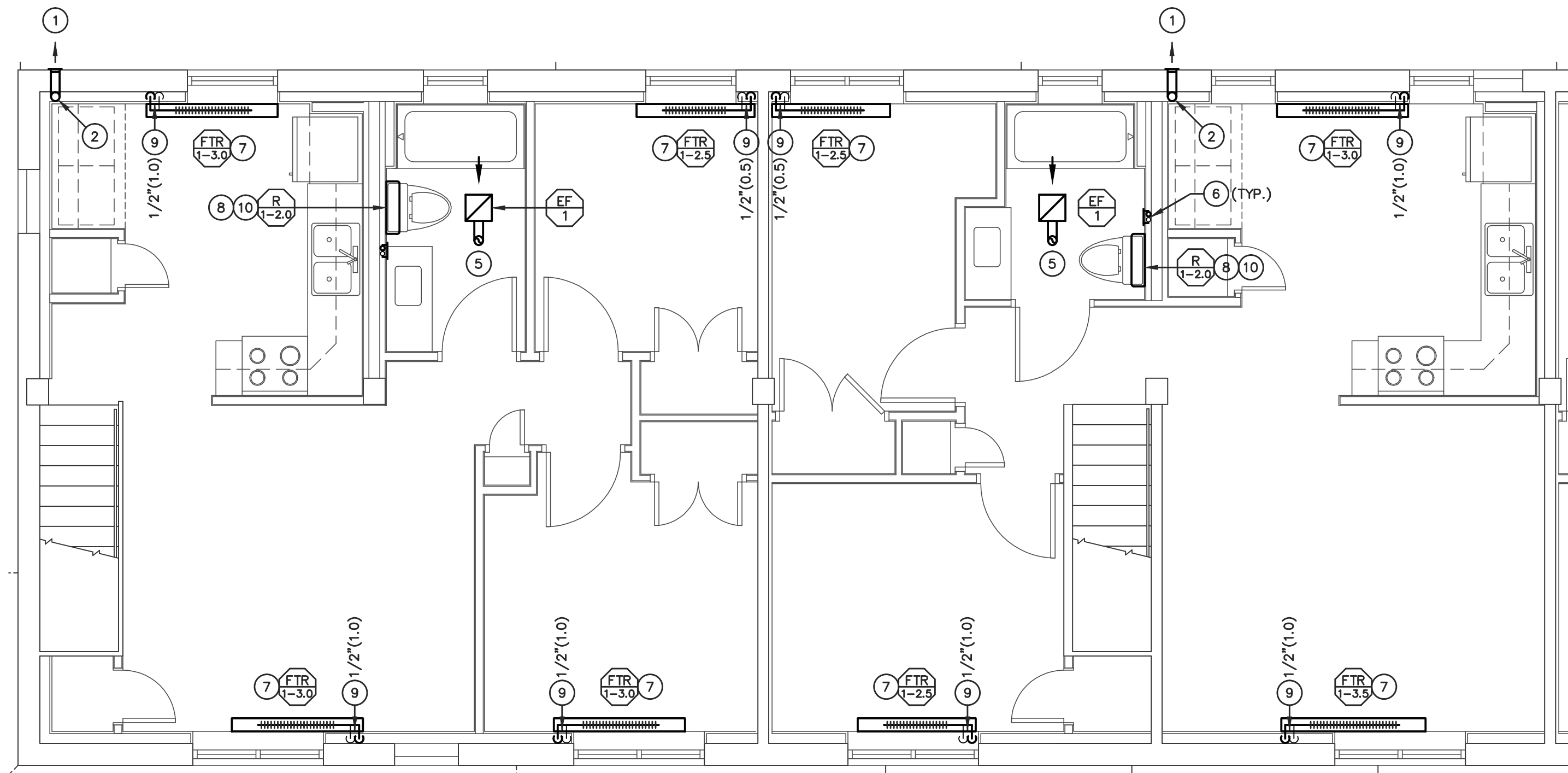
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WILLIAM HOWARD DAY HOMES
RENOVATIONS - BUILDINGS K, L & M
HARRISBURG HOUSING AUTHORITY
BUILDING K
LARGE SCALE PLAN - HVAC

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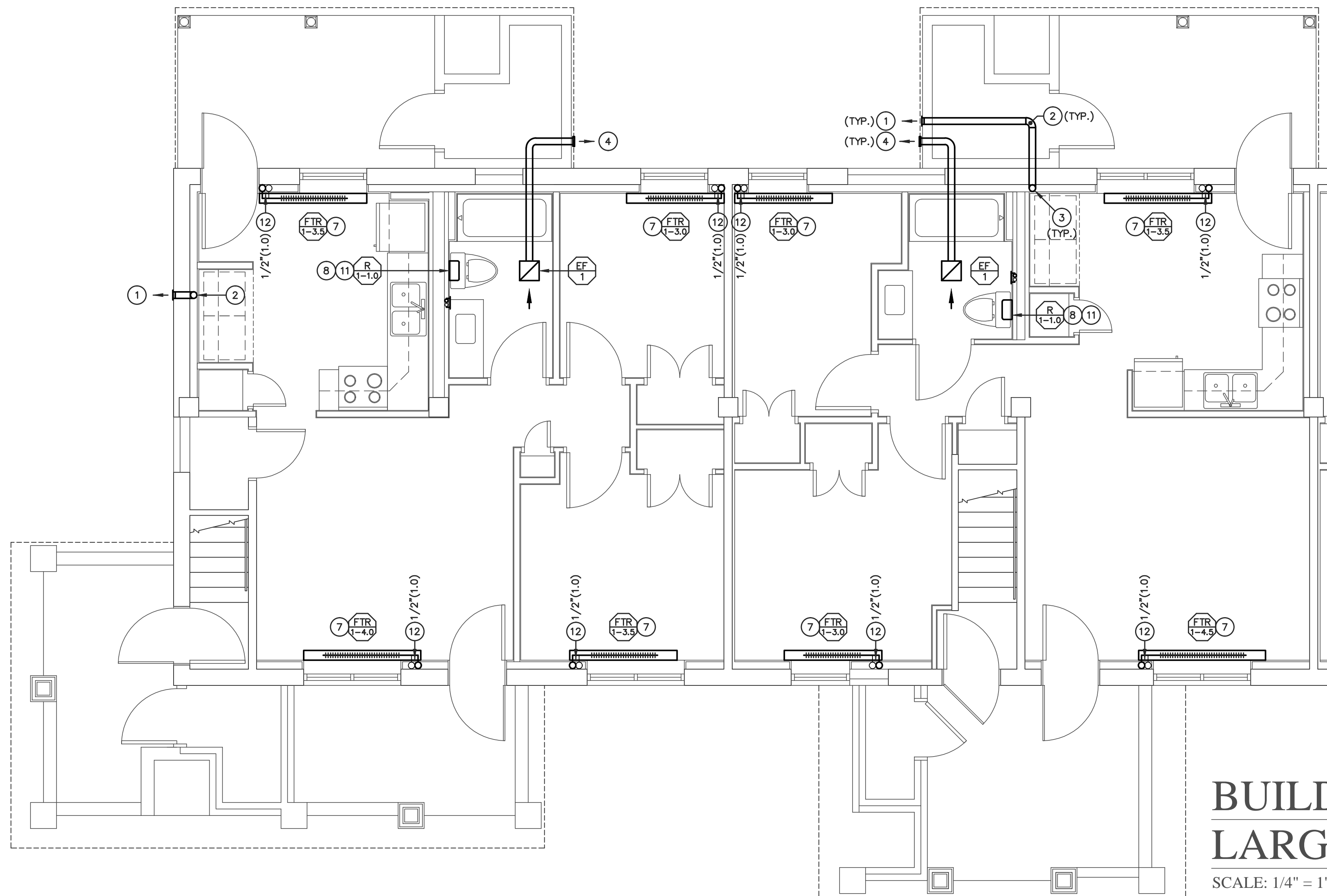
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H104



BUILDING 'L' SECOND FLOOR - LARGE SCALE PLAN - HVAC

SCALE: 1/4" = 1'-0"



BUILDING 'L' FIRST FLOOR - LARGE SCALE PLAN - HVAC

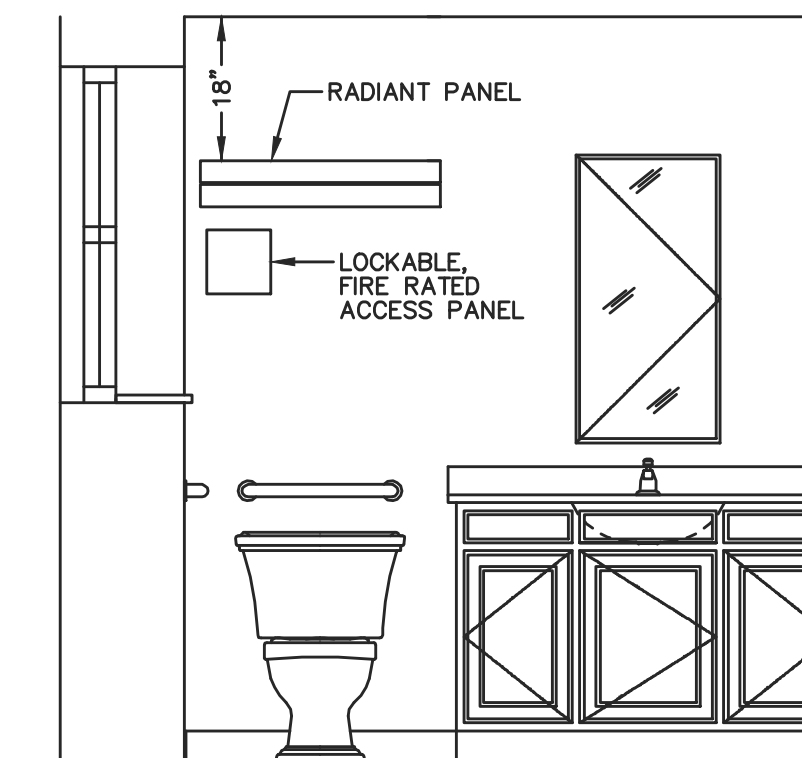
SCALE: 1/4" = 1'-0"

PLAN NOTES

- 1 PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION.
- 2 RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3 PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL.
- 4 PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- 5 RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATERTIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- 6 PROVIDE 10X10, FIRE RATED, TAMPERPROOF AND LOCKABLE ACCESS DOOR.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR. SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION.
- 10 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- 11 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 12 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

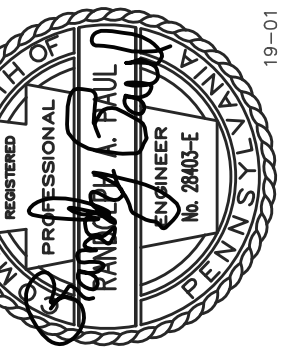
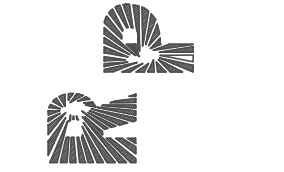
GENERAL NOTE

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) → 1/2"(1.0) ← FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



- NOTES:
1. TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR RADIATOR LOCATIONS.
- RADIATOR ABOVE TOILET**
SCALE: 1/2"=1'-0"

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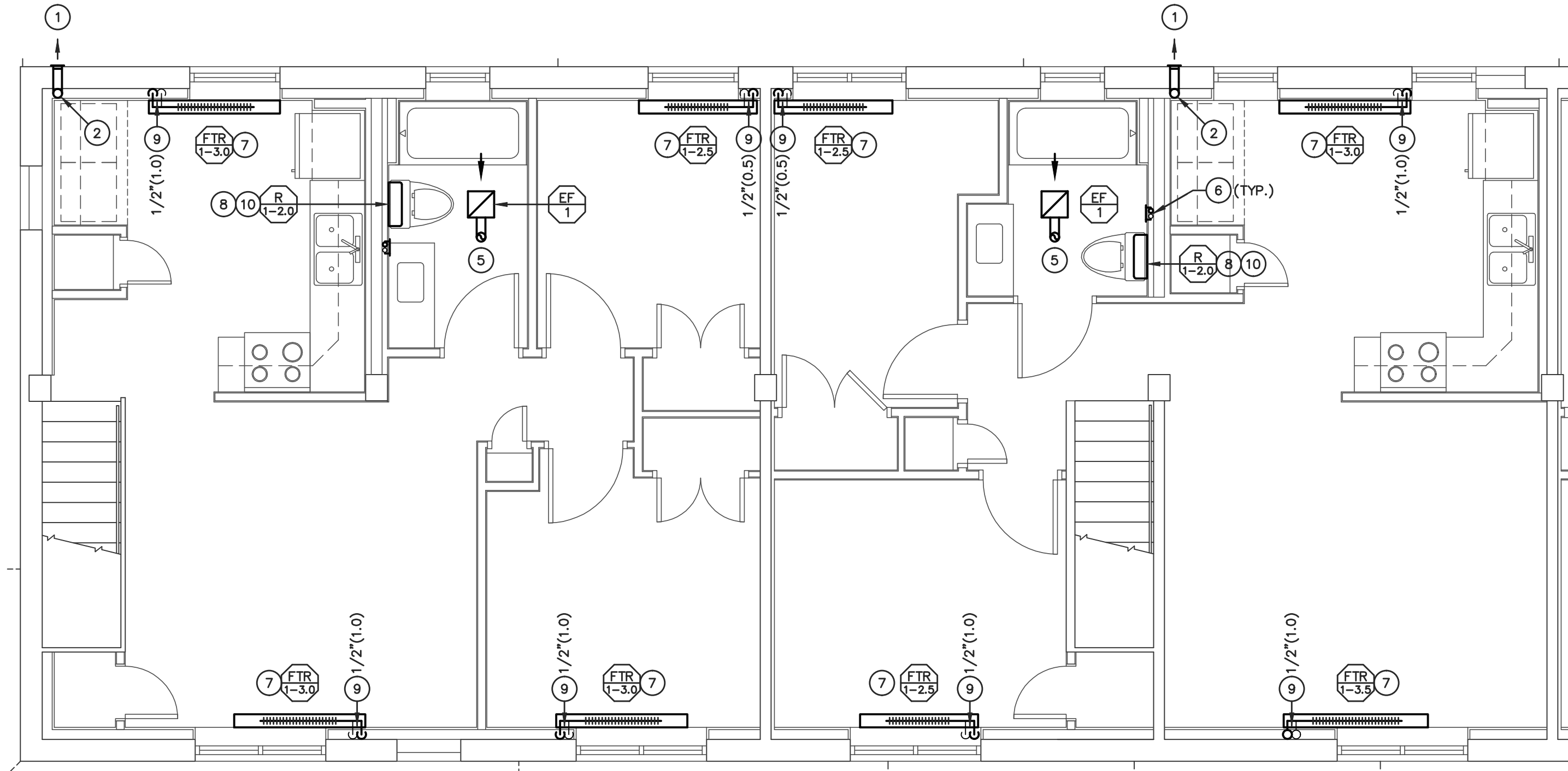
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BUILDING L
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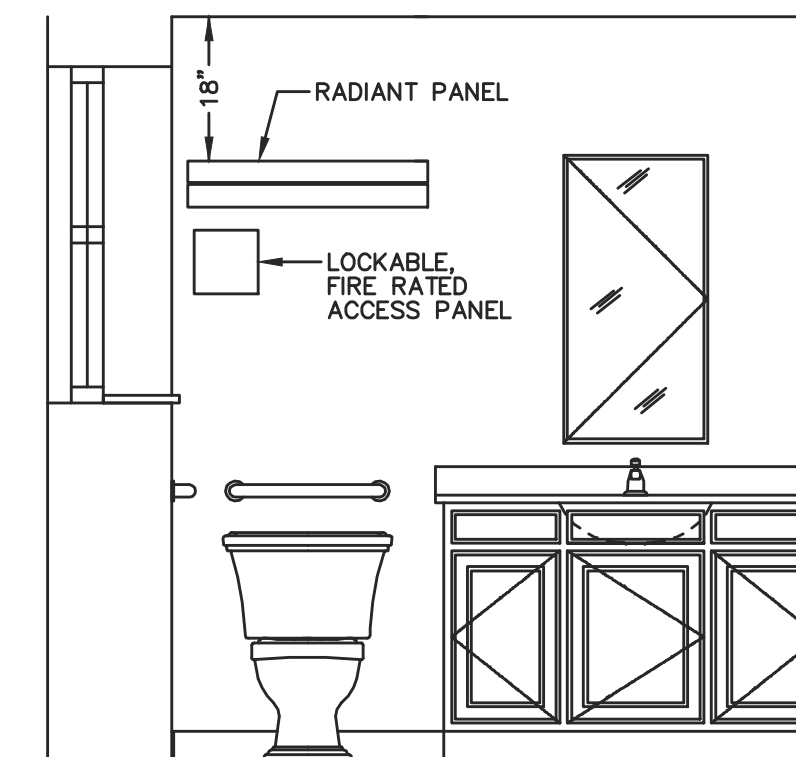
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H105



**BUILDING 'M' SECOND FLOOR -
LARGE SCALE PLAN - HVAC**

SCALE: 1/4" = 1'-0"



NOTES:

- 1. TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR RADIATOR LOCATIONS.

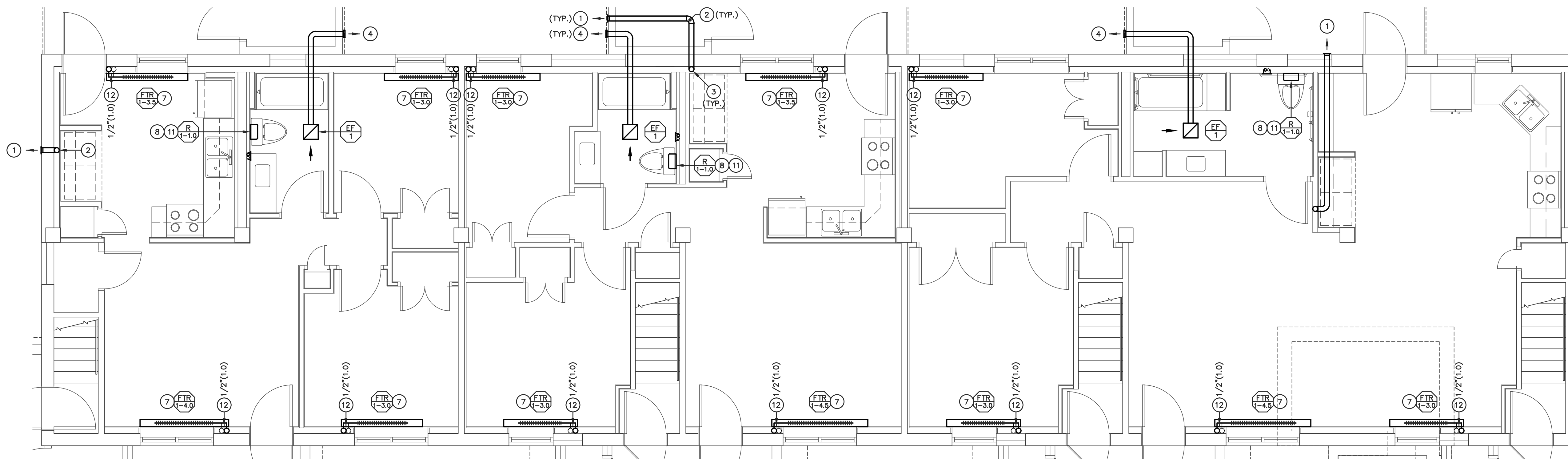
RADIATOR ABOVE TOILET
SCALE: 1/2"=1'-0"

PLAN NOTES

- 1 PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION.
- 2 RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3 PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL.
- 4 PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- 5 RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATER TIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- 6 PROVIDE 10X10, FIRE RATED, TAMPERPROOF AND LOCKABLE ACCESS DOOR.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR. SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION.
- 10 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- 11 RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 12 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

GENERAL NOTE

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. PIPE SIZE (TYP.) → 1/2"(1.0) → FLOW - GPM (TYP.)
3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



BUILDING 'M' FIRST FLOOR - LARGE SCALE PLAN - HVAC

SCALE: 1/4" = 1'-0"

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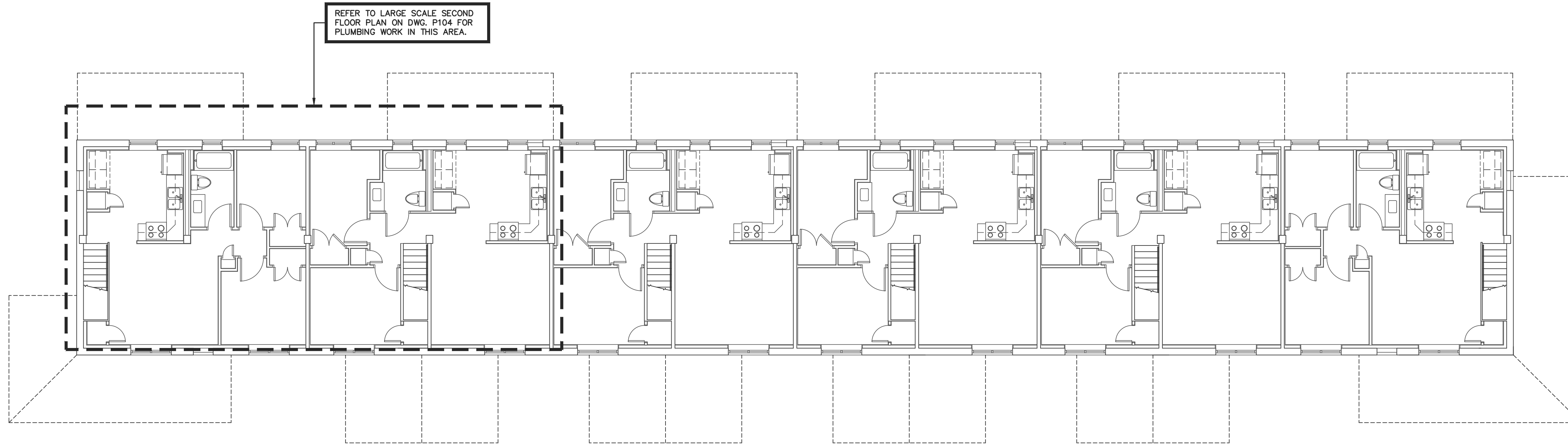
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RENOVATIONS - BUILDINGS K, L & M
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**BUILDING M
LARGE SCALE PLAN - HVAC**

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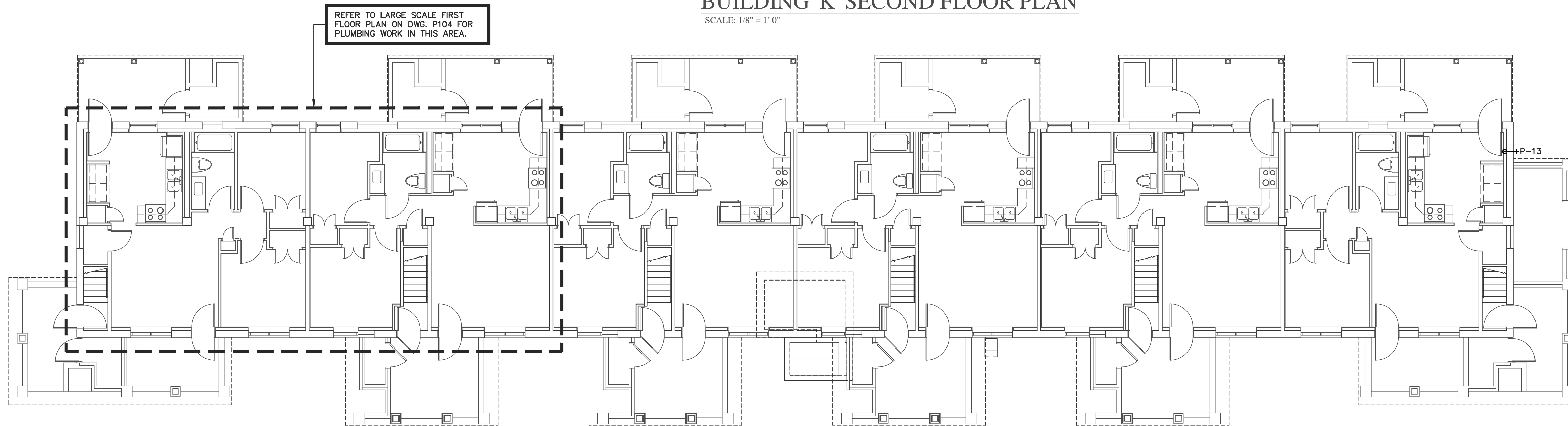
H106



REFER TO LARGE SCALE SECOND FLOOR PLAN ON DWG. P104 FOR PLUMBING WORK IN THIS AREA.

BUILDING 'K' SECOND FLOOR PLAN

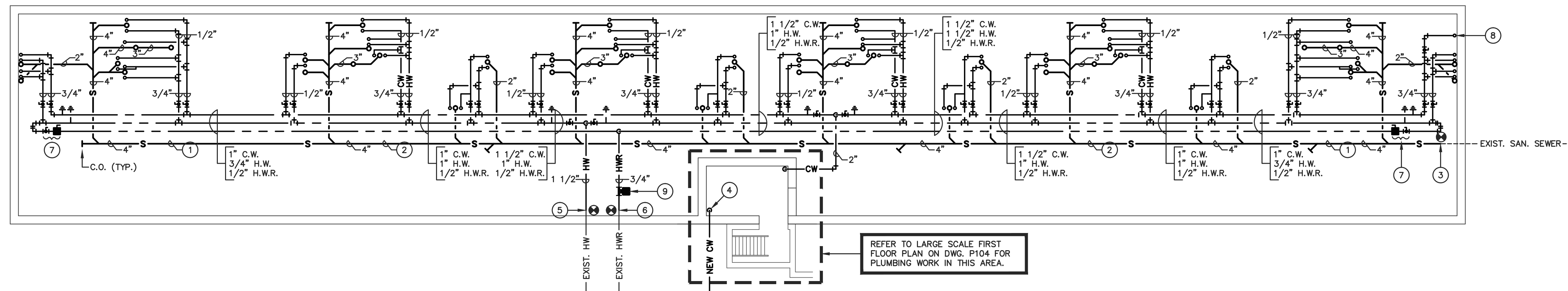
SCALE: 1/8" = 1'-0"



REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. P104 FOR PLUMBING WORK IN THIS AREA.

BUILDING 'K' FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. P104 FOR PLUMBING WORK IN THIS AREA.

BUILDING 'K' MECHANICAL ROOM PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES

- 1 PIPING RUN IN CRAWLSPACE.
- 2 PIPING RUN AT 1/8" FT. SLOPE.
- 3 EXTEND AND CONNECT NEW 4" SAN. SEWER MAIN TO EXISTING SEWER MAIN IN CRAWLSPACE. FIELD VERIFY LOCATION AND INVERT OF EXISTING SEWER PIPING PRIOR TO CONSTRUCTION.
- 4 NEW 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO PENETRATE EXTERIOR WALL AND TERMINATE W/FLANGE. P.C. CONTRACT STARTS AT FLANGE IN MECH. RM.
- 5 EXTEND AND CONNECT NEW 1 1/2" H.W. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 6 EXTEND AND CONNECT NEW 3/4" H.W.R. MAIN TO EXISTING HOT WATER RETURN MAIN IN CRAWLSPACE.
- 7 1/2" BALL VALVE AND BALANCING VALVE CALIBRATED TO FLOW 1.0 GPM.
- 8 3/4" C.W. RISE TO WALL HYDRANT.
- 9 HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

SYMBOLS

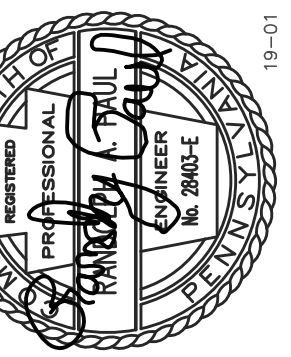
- S- SANITARY SEWER
- V- VENTING
- C- COLD WATER
- H- HOT WATER
- R- HOT WATER RETURN
- G- NATURAL GAS
- o RISE
- o DROP
- E- ELBOW
- T- TEE
- V- SHUT-OFF VALVE
- B- BALL VALVE
- C- CHECK VALVE
- S- SHOCK ABSORBER
- D- CLEANOUT
- F- FLOOR DRAIN
- G- GAS SHUT-OFF VALVE
- R- GAS REGULATOR ASSEMBLY
- C- CONNECT TO EXISTING

ABBREVIATIONS

- | | |
|-----------|----------------------|
| A.F.F. | ABOVE FINISHED FLOOR |
| BLDG. | BUILDING |
| C.O. | CLEAN OUT |
| C.O.G. | CLEAN OUT TO GRADE. |
| EXIST. | EXISTING |
| E.T.R. | EXISTING TO REMAIN |
| F.C.O. | FLOOR CLEAN OUT |
| G.C. | GENERAL CONTRACTOR |
| H. & C.W. | HOT & COLD WATER |
| H.C. | HEATING CONTRACTOR |
| INV. | INVERT |
| P.C. | PLUMBING CONTRACTOR |
| R.T.U. | ROOF TOP UNIT |
| R.W.C. | RAIN WATER CONDUCTOR |
| SAN. | SANITARY |
| SW. | SAFE WASTE |
| S & W. | SOIL & WASTE |
| V.R. | VENT RISER |
| V.T.R. | VENT-THRU-ROOF |
| W. | WASTE |
| W/W. | WATER COLUMN |

NOTE: THE ABOVE SYMBOLS AND ABBREVIATIONS ARE A GENERAL LIST. SOME OF THE ITEMS ABOVE MAY NOT BE APPLICABLE.

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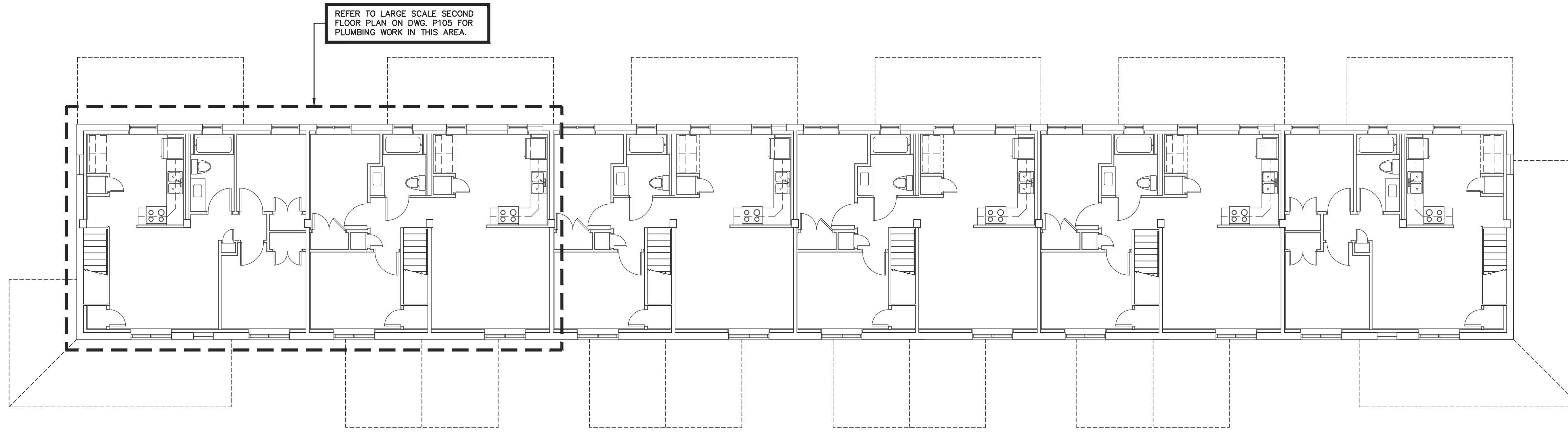
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FLOOR PLANS - PLUMBING

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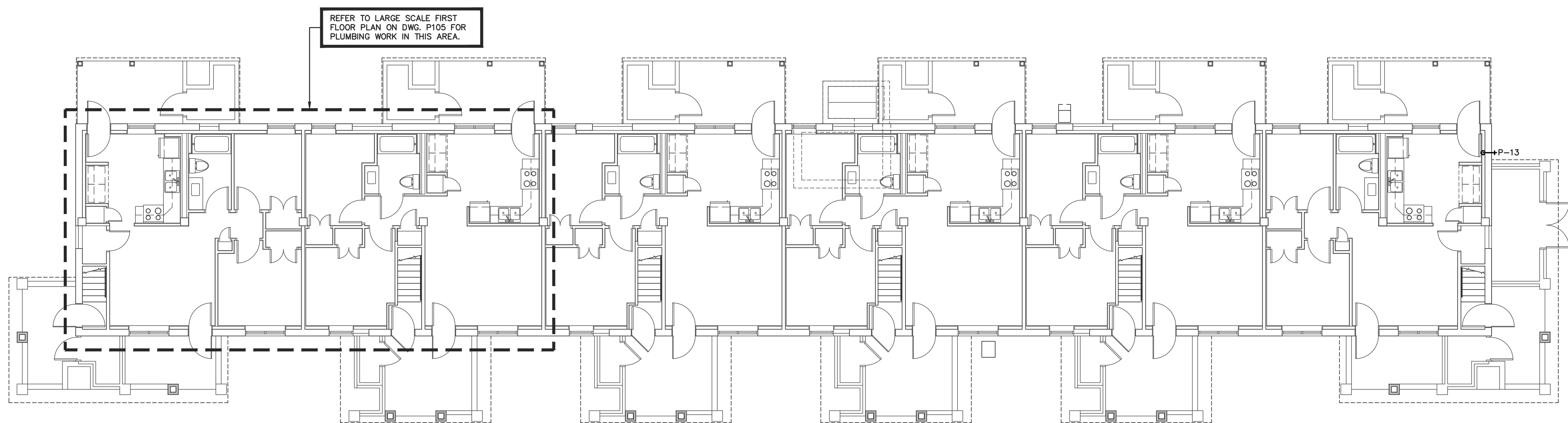
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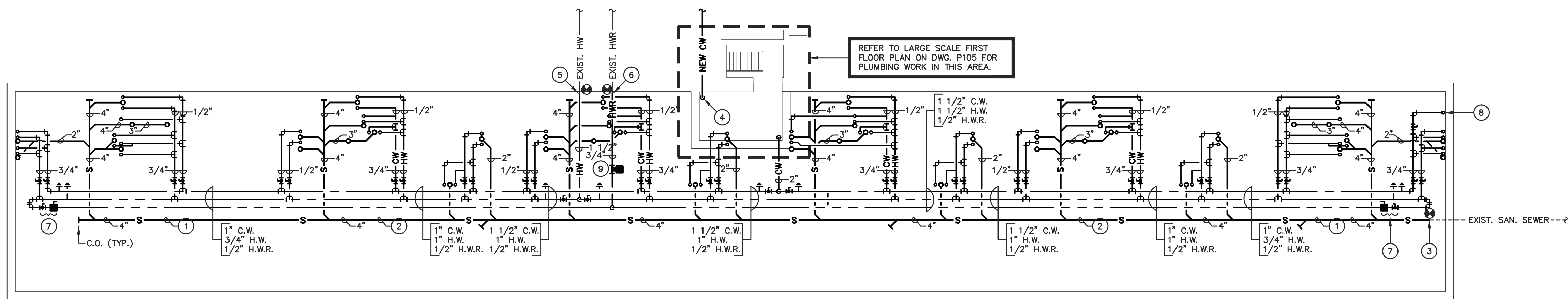
BID DRAWINGS



BUILDING 'L' SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING 'L' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

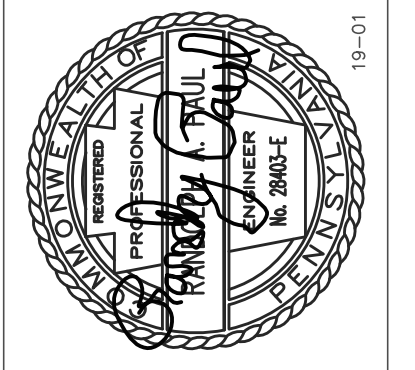


BUILDING 'L' MECHANICAL ROOM PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES

- 1 PIPING RUN IN CRAWLSPACE.
- 2 PIPING RUN AT 1/8" / FT. SLOPE.
- 3 EXTEND AND CONNECT NEW 4" SAN. SEWER MAIN TO EXISTING SEWER MAIN IN CRAWLSPACE. FIELD VERIFY LOCATION AND INVERT OF EXISTING SEWER PIPING PRIOR TO CONSTRUCTION.
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- 7 1/2" BALL VALVE AND BALANCING VALVE CALIBRATED TO FLOW 1.0 GPM.
- 8 3/4" C.W. RISE TO WALL HYDRANT.
- 9 HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

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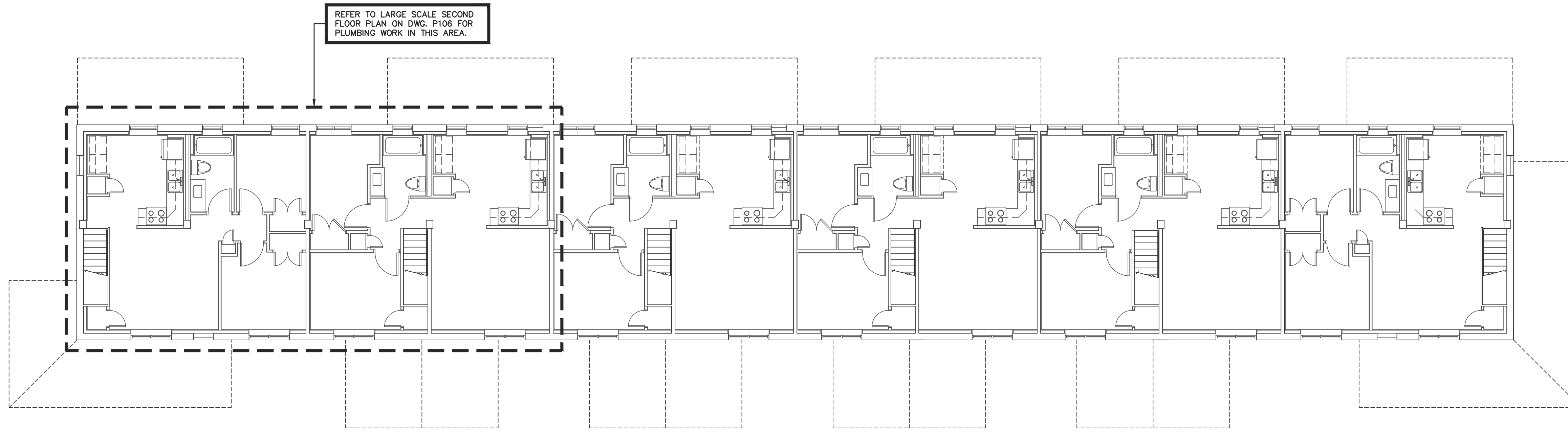
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BUILDING L
FLOOR PLANS - PLUMBING

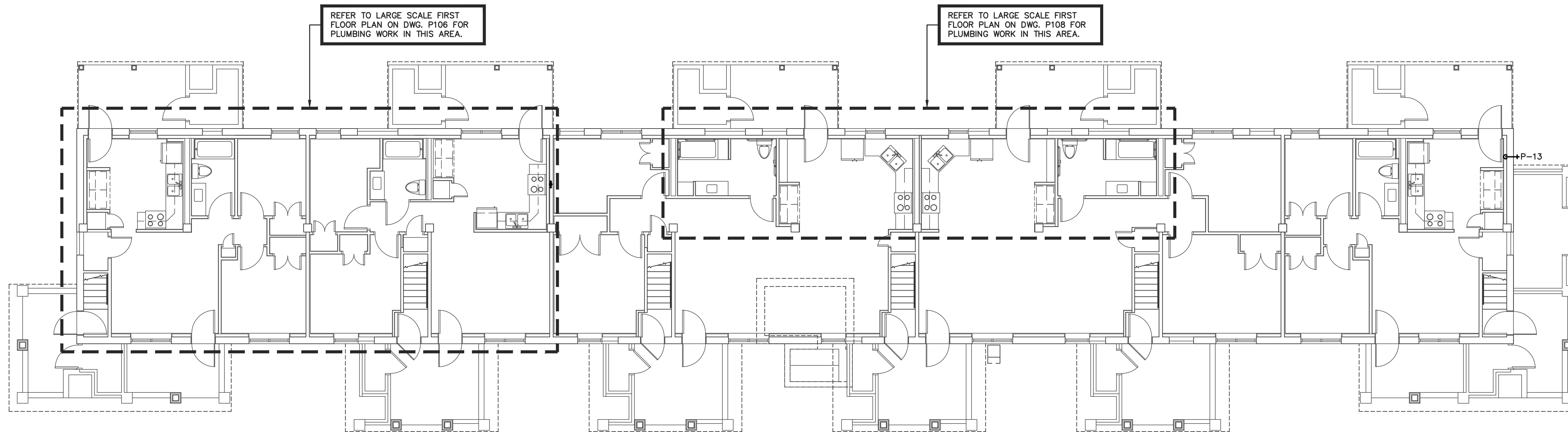
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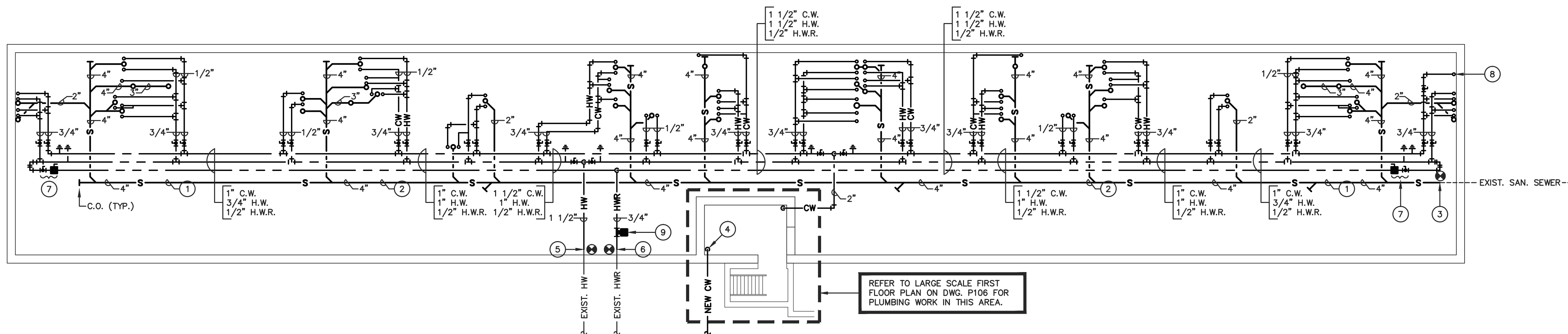
P102



BUILDING 'M' SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING 'M' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

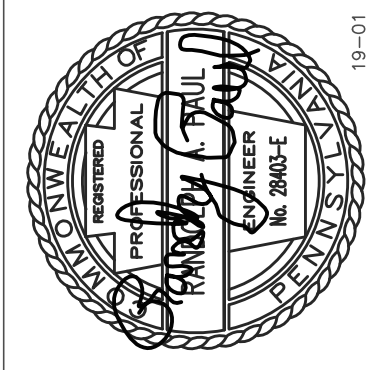


BUILDING 'M' MECHANICAL ROOM PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES

- 1 PIPING RUN IN CRAWLSPACE.
- 2 PIPING RUN AT 1/8"/FT. SLOPE.
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- 9 HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

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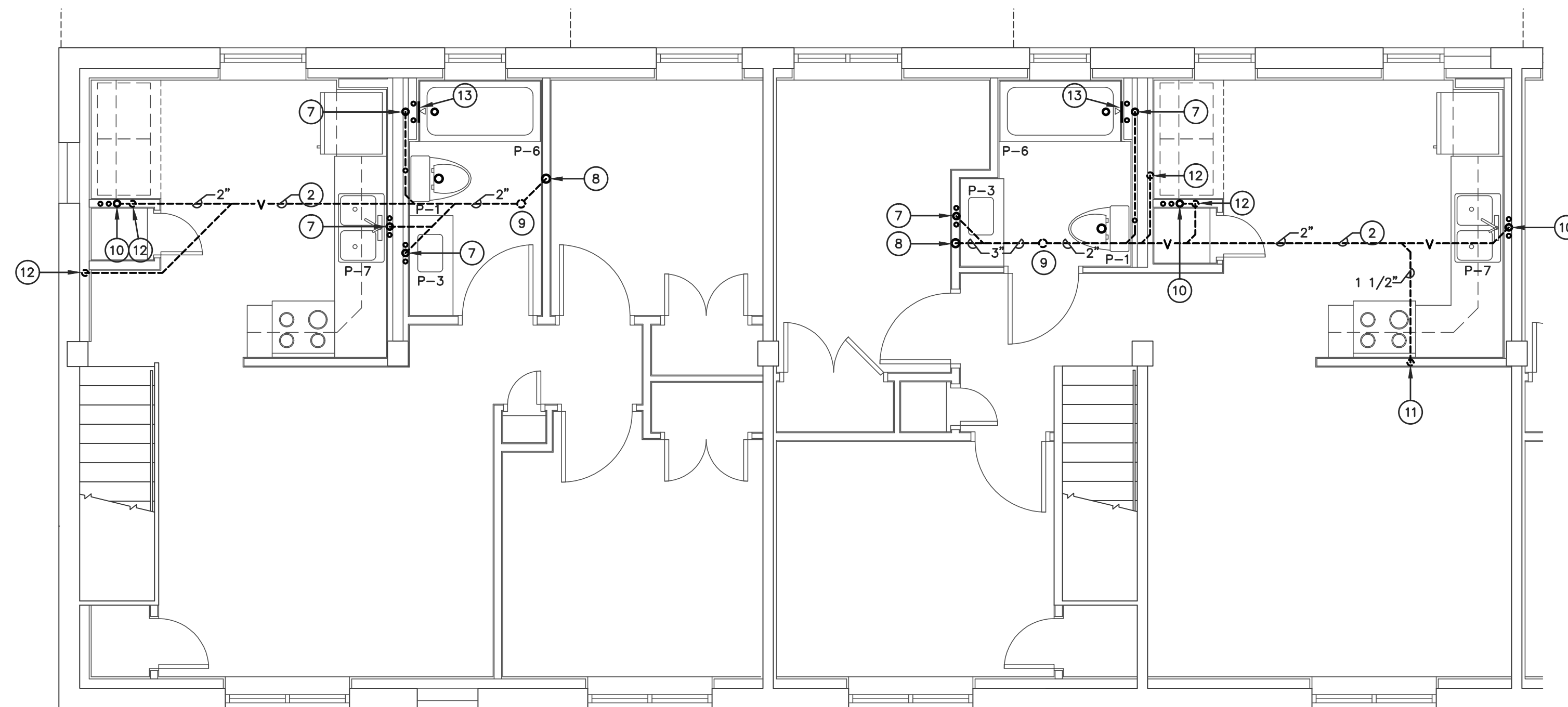
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BUILDING M
FLOOR PLANS - PLUMBING

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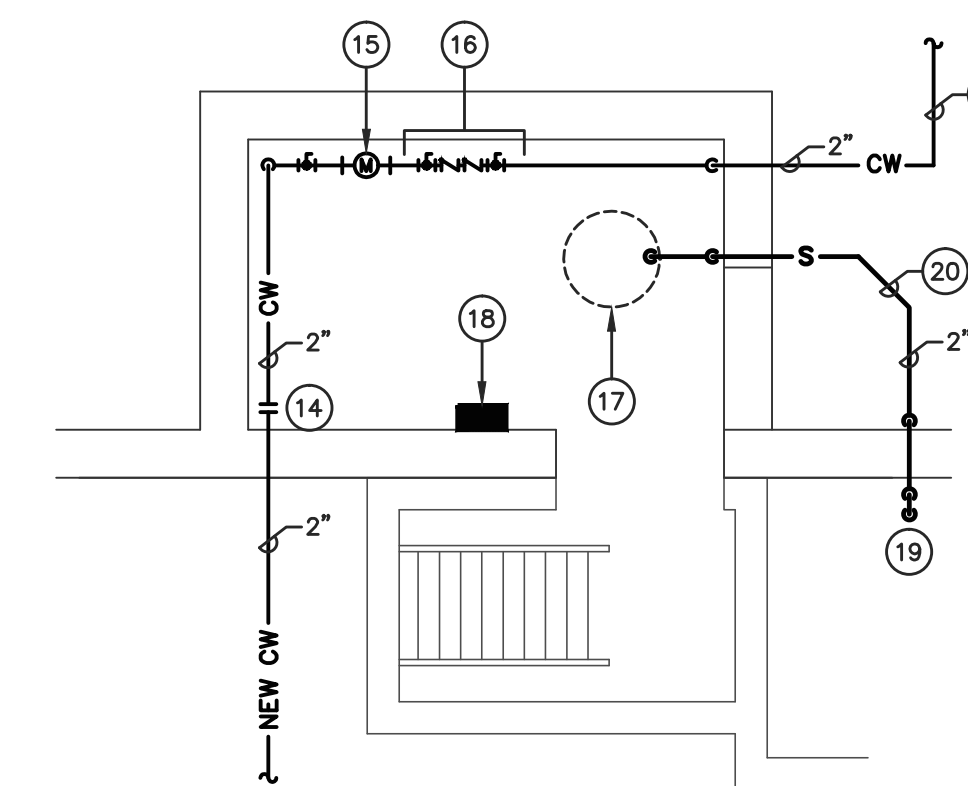
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P103



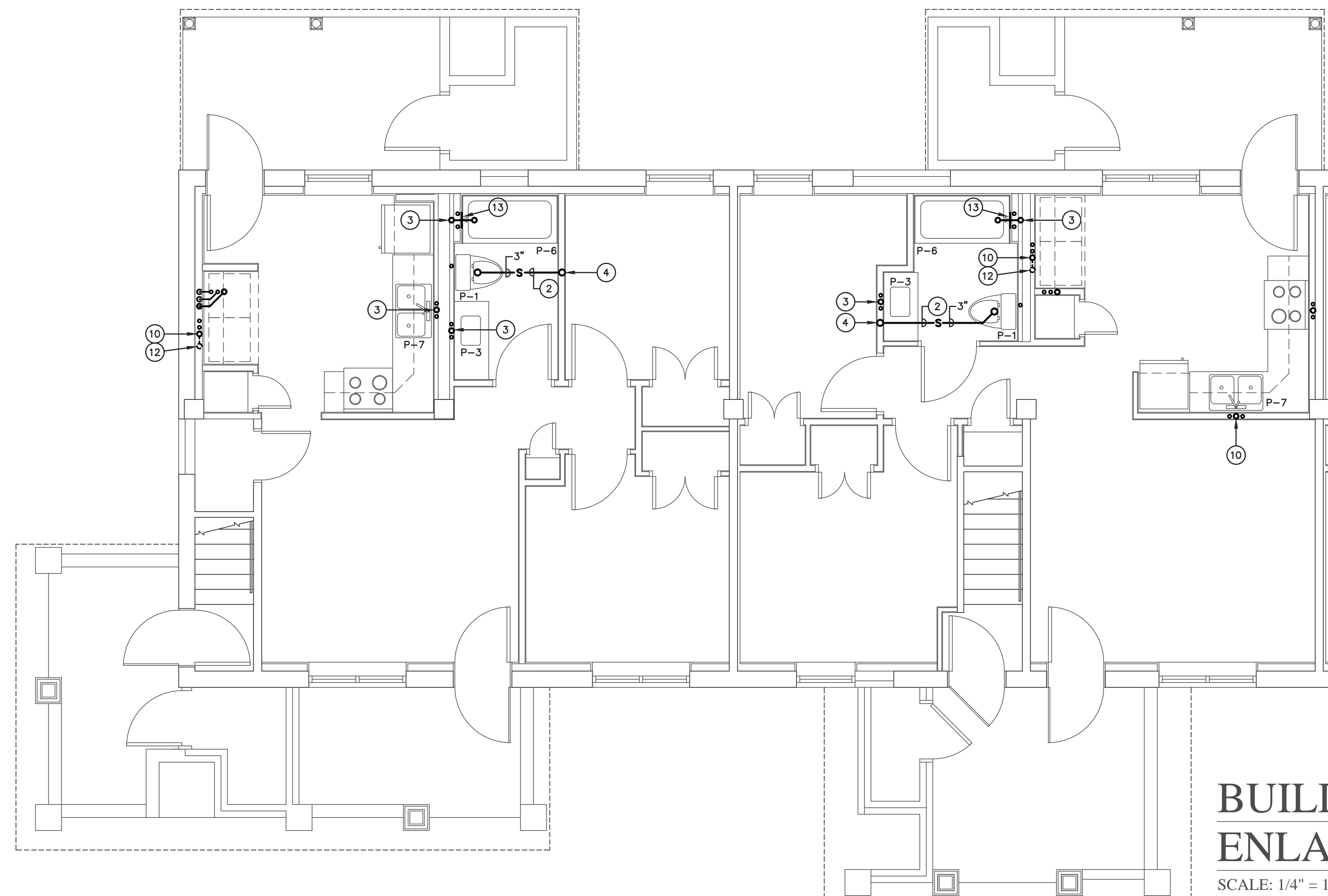
BUILDING 'K' SECOND FLOOR - ENLARGED FLOOR PLAN - PLUMBING

SCALE: 1/4" = 1'-0"



BUILDING 'K' MECH. RM. ENLARGED FLOOR PLAN - PLUMBING

SCALE: 1/4" = 1'-0"



BUILDING 'K' FIRST FLOOR - ENLARGED FLOOR PLAN - PLUMBING

SCALE: 1/4" = 1'-0"

PLAN NOTES

- ① PIPING RUN BELOW FLOOR.
- ② PIPING RUN ABOVE CEILING.
- ③ 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- ④ 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- ⑤ 2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- ⑥ 3" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- ⑦ 2" V. STACK TO ABOVE CEILING.
- ⑧ 3" V. STACK TO ABOVE CEILING.
- ⑨ 3" V.T.R. P.C. SHALL PROVIDE NEW ATTIC AND ROOF OPENINGS W/REQUIRED FLASHING AND SEALANT FOR WATER-PROOF INSTALLATION. PLACE EXISTING INSULATION IN ATTIC SPACE TIGHT TO VENT PIPE AFTER INSTALLATION.
- ⑩ PROVIDE SIOUX CHIEF NO. 696-2303MF "OX-BOX" WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
- ⑩ 1 1/2" W. & V.
- ⑪ 1 1/2" V.R.
- ⑫ 2" V.R.
- ⑬ PROVIDE ELMODOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.
- ⑭ 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO TERMINATE W/ FLANGE IN MECH. RM. P.C. CONTRACT STARTS AT FLANGE.
- ⑮ RE-LOCATED EXISTING 2" WATER METER TO BE INSTALLED AS PER WATER COMPANY REQUIREMENTS.
- ⑯ 2" BACKFLOW PREVENTER ASSEMBLY. REFER TO WATER SERVICE DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑰ EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑱ NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑲ 2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑳ PIPING RUN AT CEILING OF CRAWLSPACE.

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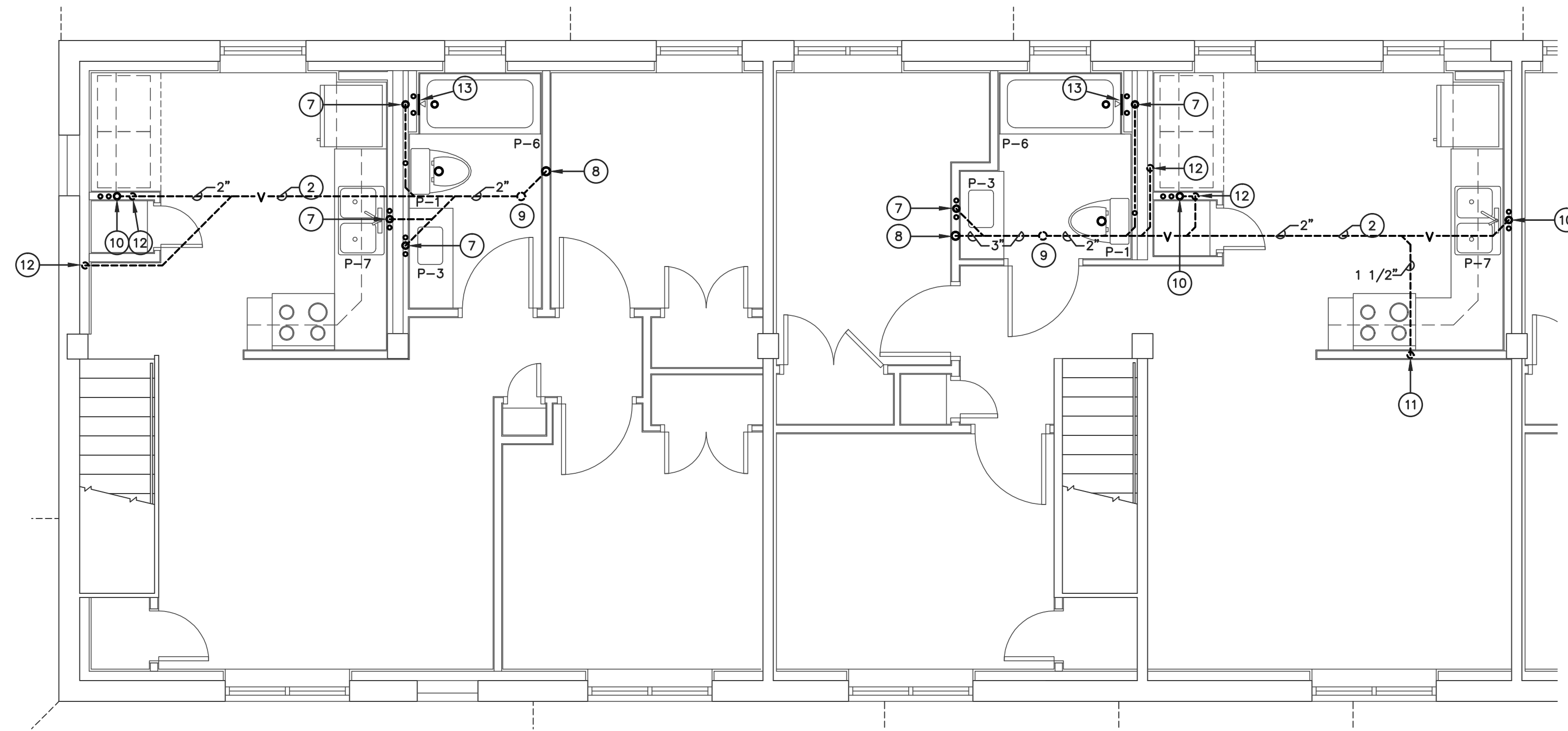


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BUILDING K
LARGE SCALE PLAN - PLUMBING

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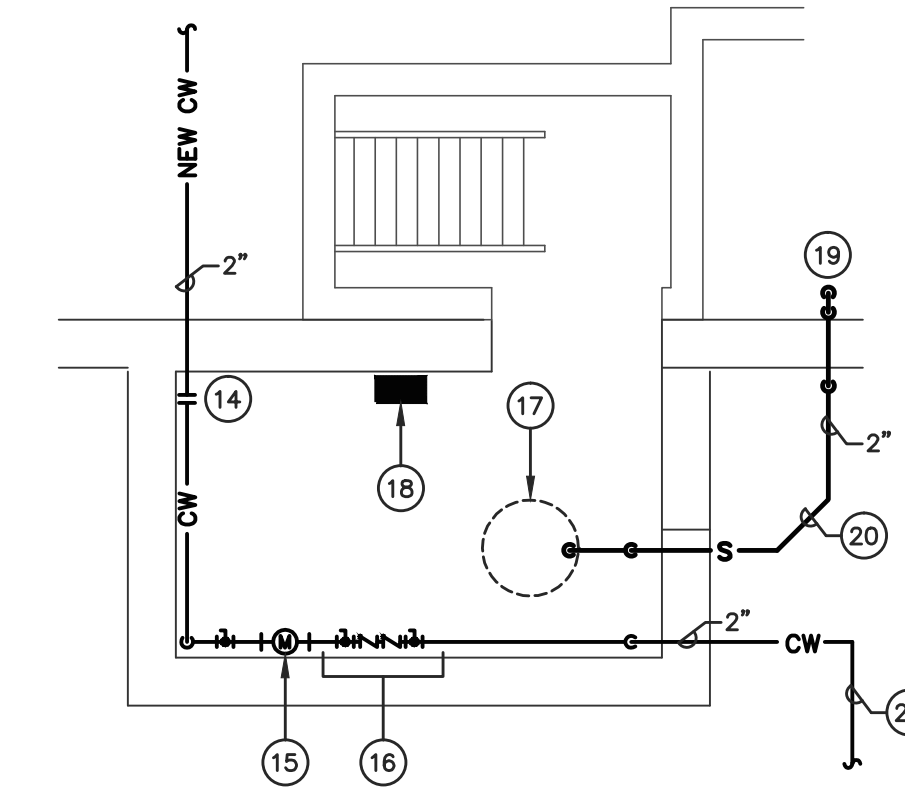
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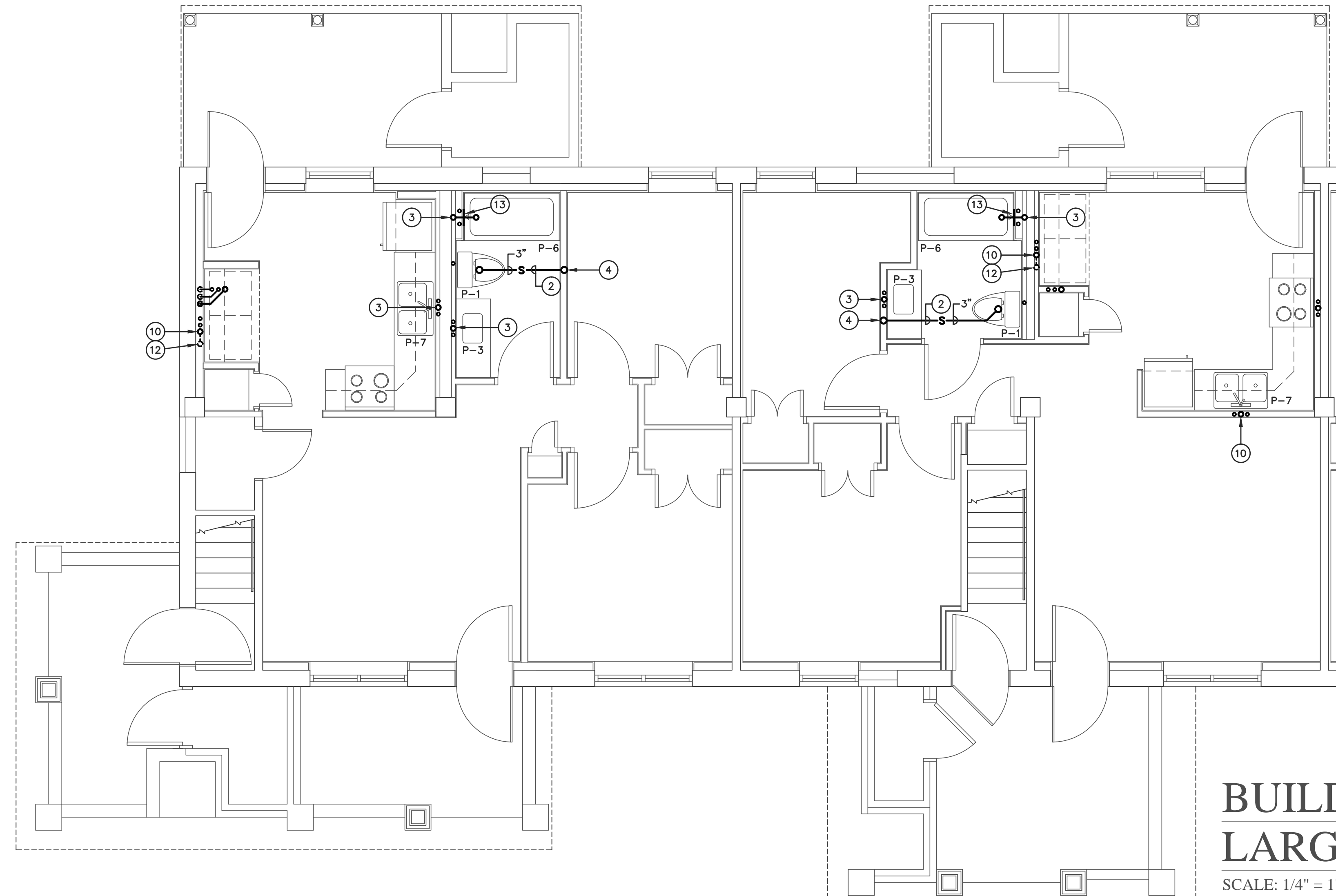
BUILDING 'L' SECOND FLOOR - LARGE SCALE PLAN - PLUMBING

SCALE: 1/4" = 1'-0"



BUILDING 'L' MECH. RM. LARGE SCALE PLAN - PLUMBING

SCALE: 1/4" = 1'-0"



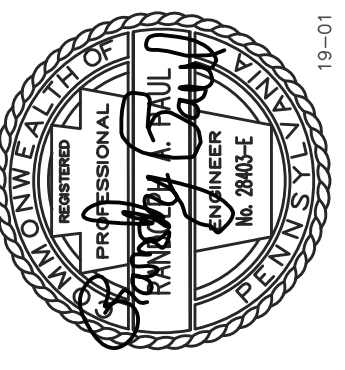
BUILDING 'L' FIRST FLOOR - LARGE SCALE PLAN - PLUMBING

SCALE: 1/4" = 1'-0"

PLAN NOTES

- ① PIPING RUN BELOW FLOOR.
- ② PIPING RUN ABOVE CEILING.
- ③ 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
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- ⑤ 2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
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- ⑩ PROVIDE SIOUX CHIEF NO. 696-2303MF 'OX-BOX' WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
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- ⑱ EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑲ NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ⑳ 2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- ㉑ PIPING RUN AT CEILING OF CRAWLSPACE.

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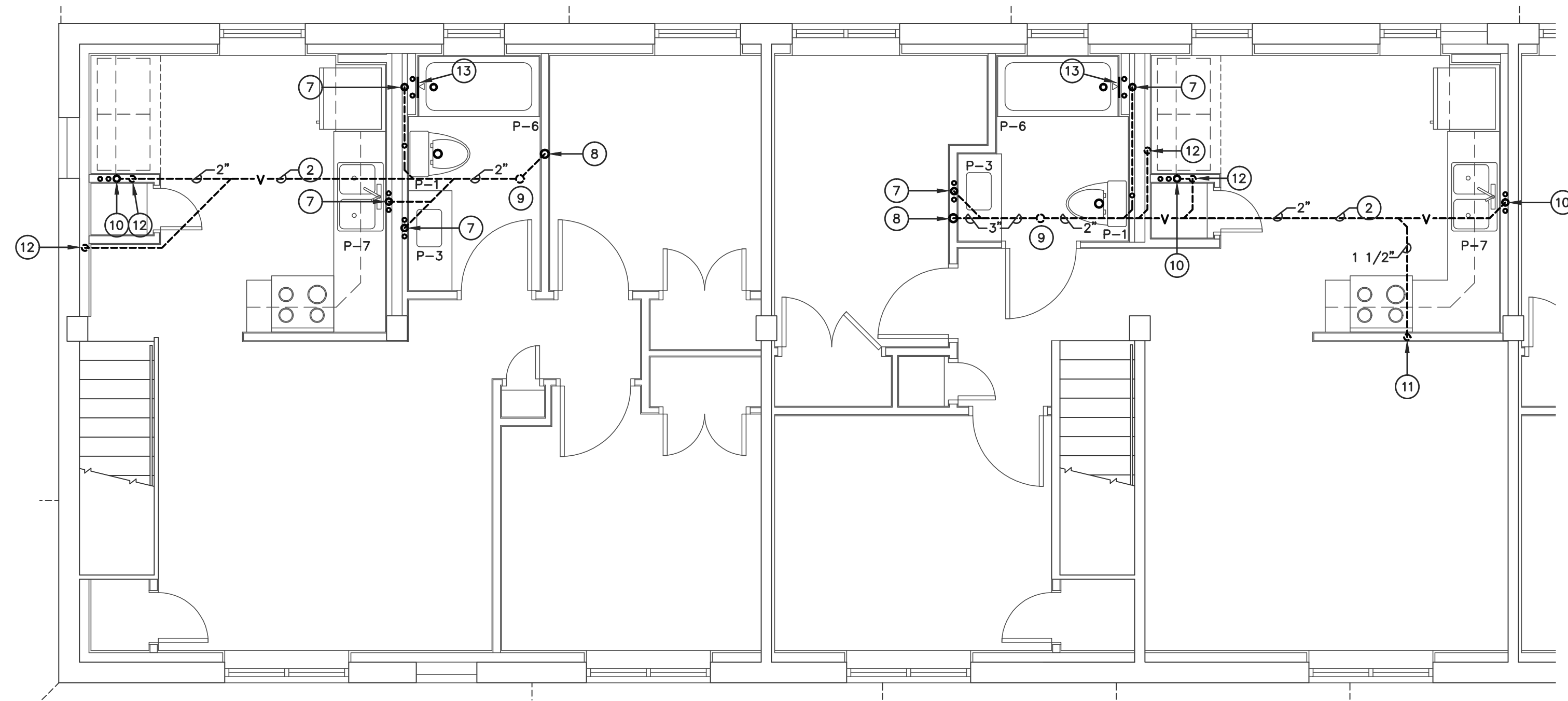
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BUILDING L
LARGE SCALE PLAN - PLUMBING

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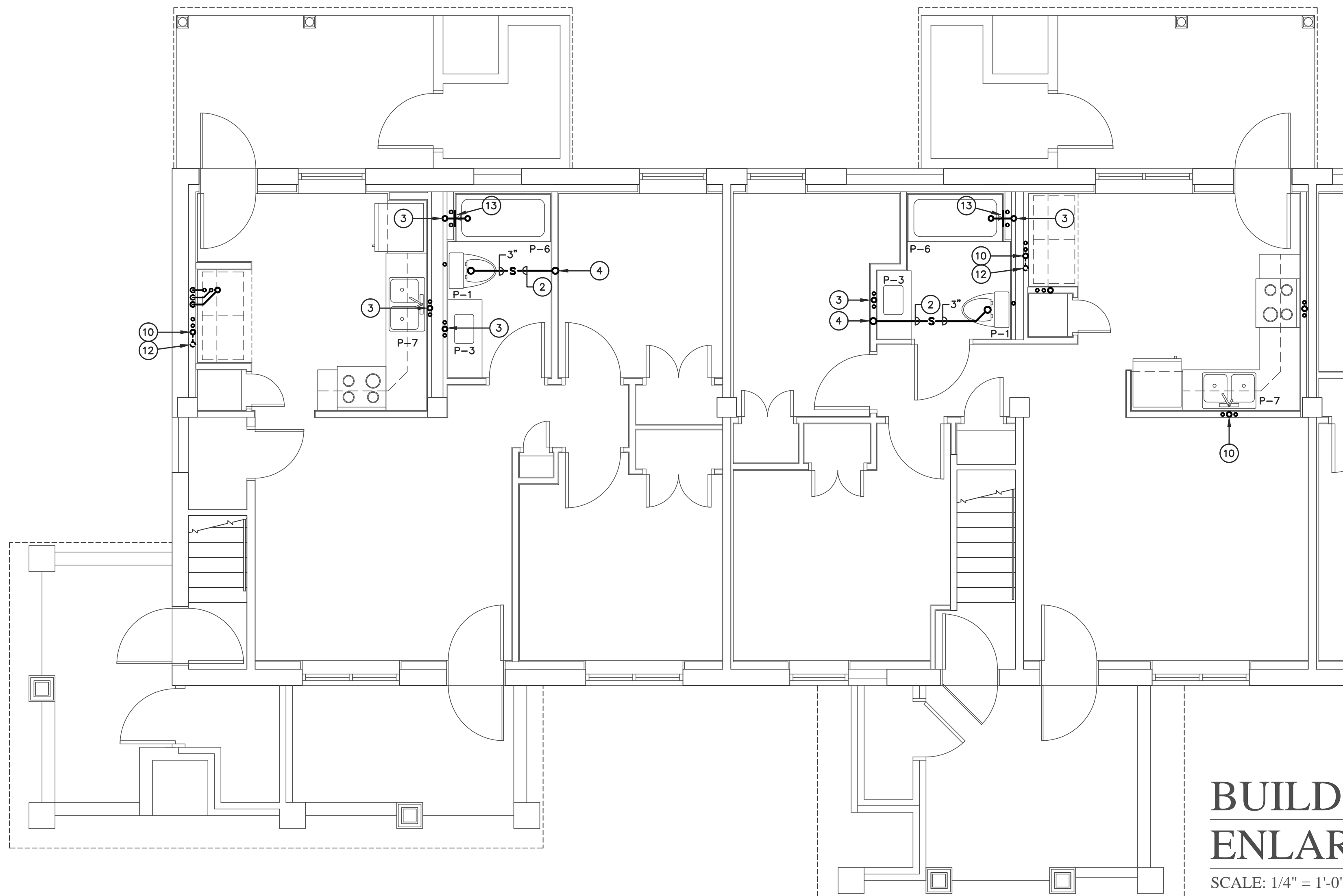
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P105

BID DRAWINGS



**BUILDING 'M' SECOND FLOOR -
ENLARGED FLOOR PLAN - PLUMBING**

SCALE: 1/4" = 1'-0"

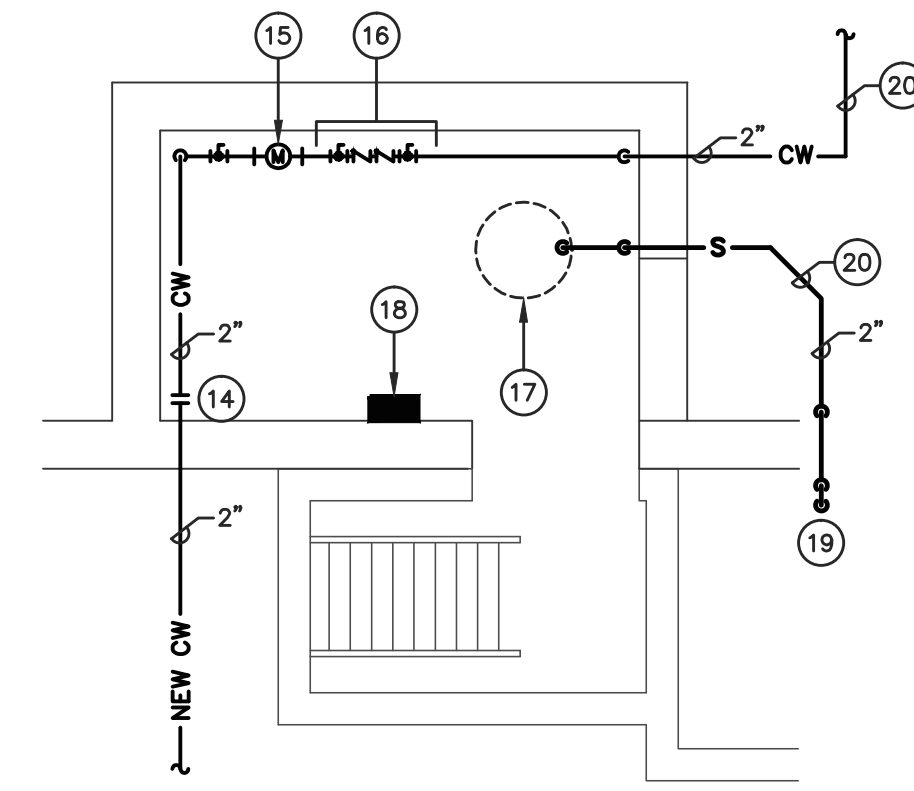


**BUILDING 'M' FIRST FLOOR -
ENLARGED FLOOR PLAN - PLUMBING**

SCALE: 1/4" = 1'-0"

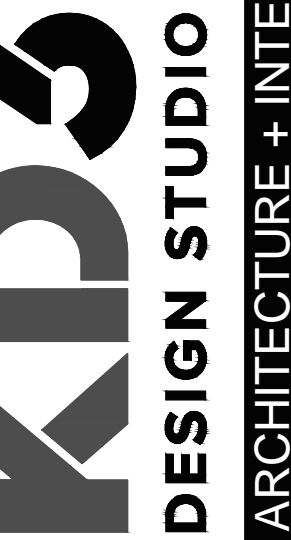
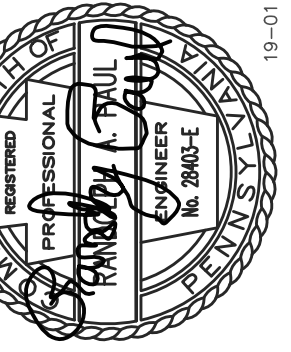
PLAN NOTES

- 1 PIPING RUN BELOW FLOOR.
- 2 PIPING RUN ABOVE CEILING.
- 3 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- 4 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- 5 2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- 6 3" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- 7 2" V. STACK TO ABOVE CEILING.
- 8 3" V. STACK TO ABOVE CEILING.
- 9 3" V.T.R. P.C. SHALL PROVIDE NEW ATTIC AND ROOF OPENINGS W/REQUIRED FLASHING AND SEALANT FOR WATER-PROOF INSTALLATION. PLACE EXISTING INSULATION IN ATTIC SPACE TIGHT TO VENT PIPE AFTER INSTALLATION.
- 10 PROVIDE SIOUX CHIEF NO. 696-2303MF "OX-BOX" WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
- 11 1 1/2" W. & V.
- 12 2" V.R.
- 13 PROVIDE ELMOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.
- 14 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO TERMINATE W/ FLANGE IN MECH. RM. P.C. CONTRACT STARTS AT FLANGE.
- 15 RE-LOCATED EXISTING 2" WATER METER TO BE INSTALLED AS PER WATER COMPANY REQUIREMENTS.
- 16 2" BACKFLOW PREVENTER ASSEMBLY. REFER TO WATER SERVICE DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 17 EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 18 NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 19 2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 20 PIPING RUN AT CEILING OF CRAWLSPACE.



**BUILDING 'M' MECH. RM.
ENLARGED FLOOR PLAN - PLUMBING**

SCALE: 1/4" = 1'-0"

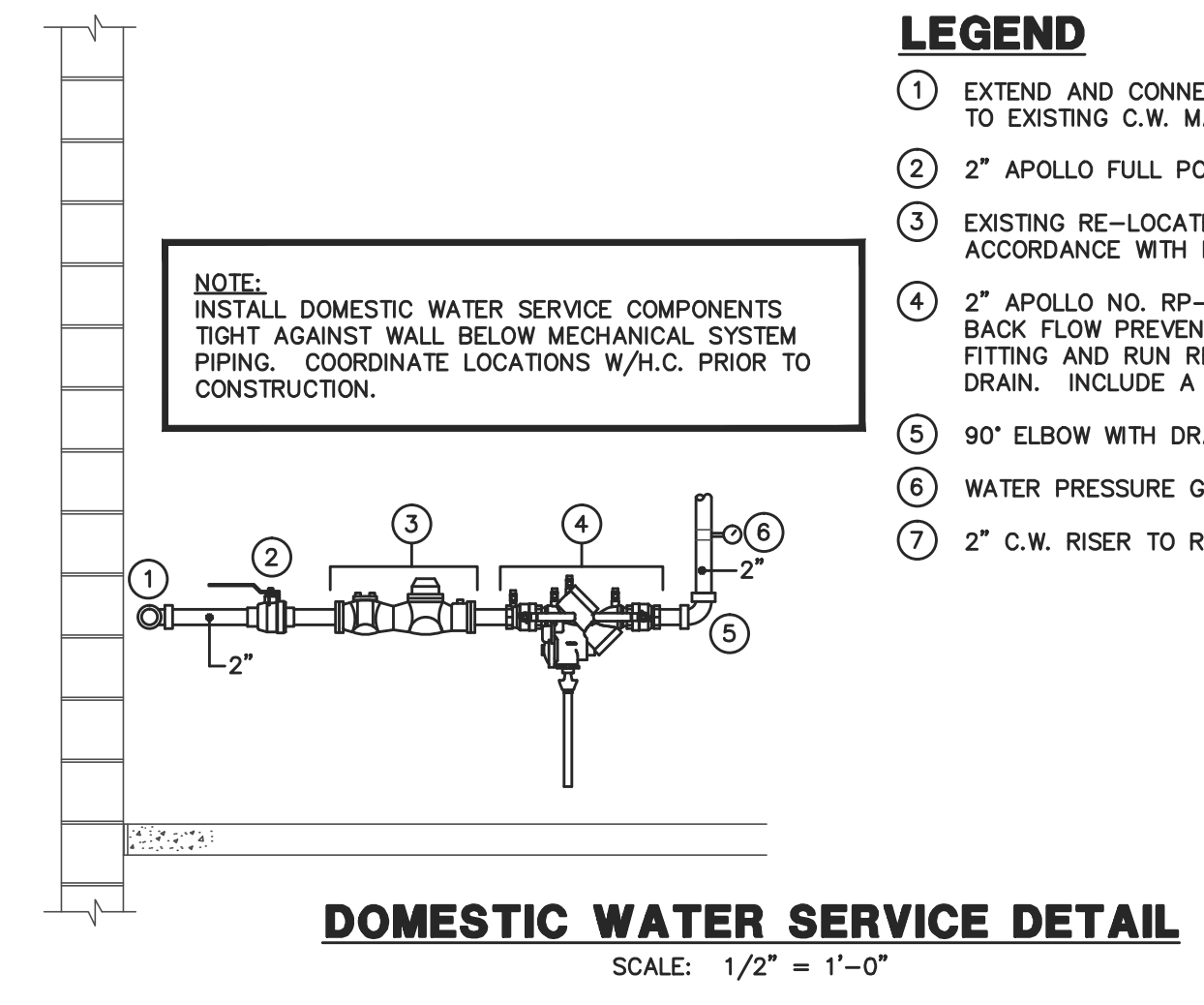
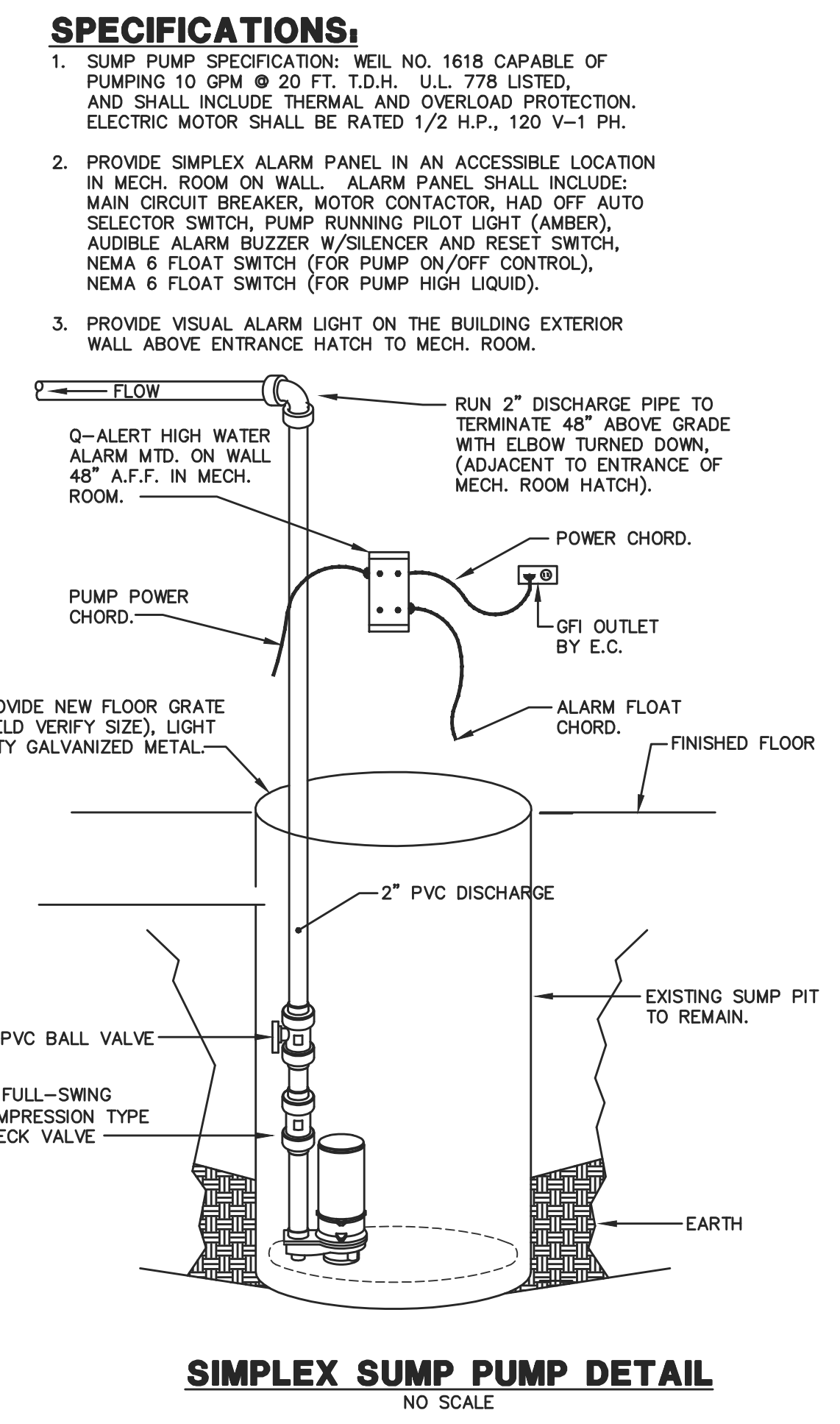
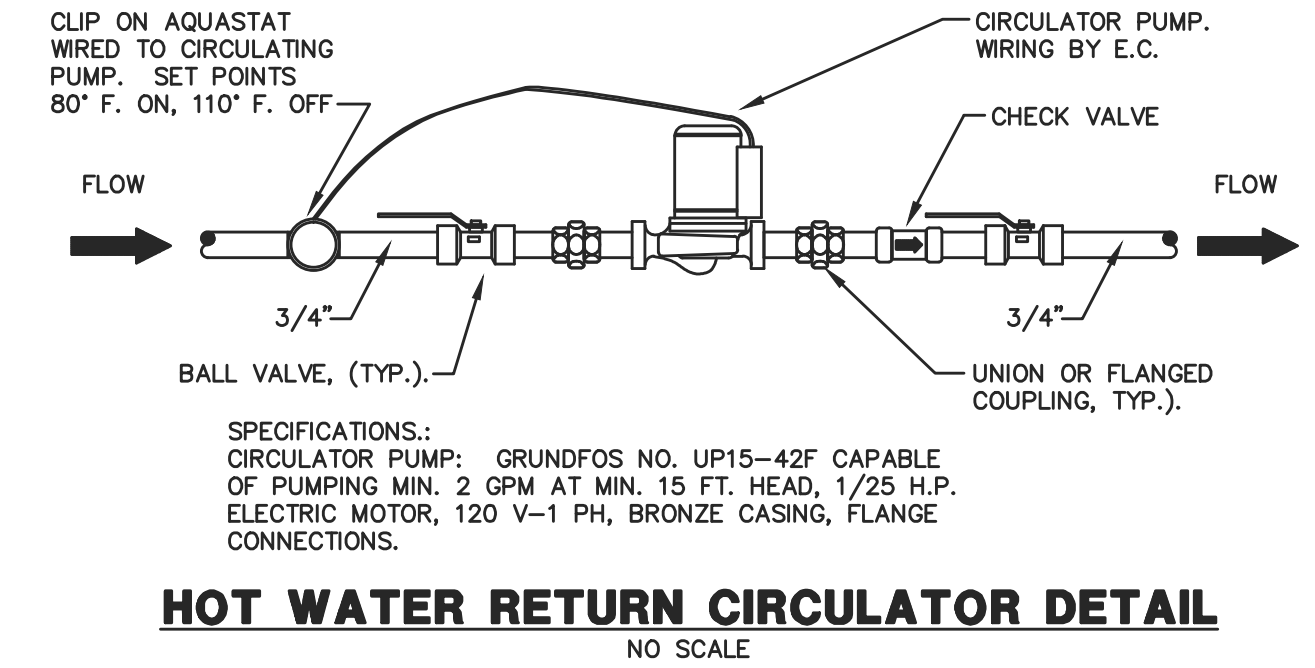
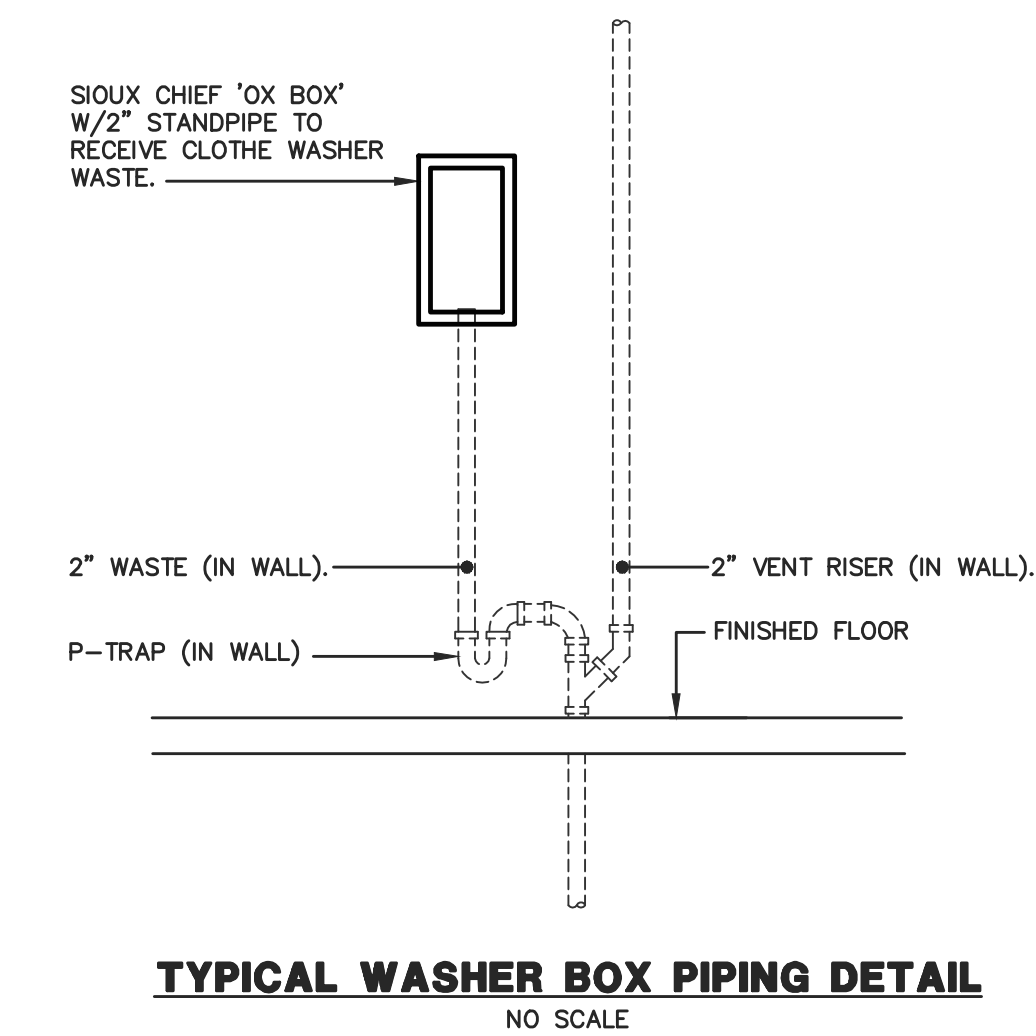


PLUMBING SPECIFICATIONS

- ALL PLUMBING WORK SHOULD BE IN ACCORDANCE TO THE LATEST ADOPTED EDITION OF THE INT'L. BUILDING CODE, INT'L. PLUMBING CODE, AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
- P.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SITE PRIOR TO BID.
- ALL ABOVE FLOOR WATER PIPING SHALL BE INSULATED AS FOLLOWS:
COLD WATER (1/2" TO 1" DIA.) = 1/2" THICK ARMSTRONG AP "ARMAFLEX"
COLD WATER (1 1/4" TO 4" DIA.) = 1" THICK ARMAFLEX
HOT WATER TO 140° F (1/2" TO 1 1/4" DIA.) = 1" THICK ARMAFLEX
HOT WATER TO 140° F (1 1/2" AND UP.) = 1 1/2" THICK ARMAFLEX
NOTE: DO NOT INSULATE MAIN WATER SERVICE VALVES, BACKFLOW PREVENTER, METER, ETC. IN MECH. ROOM.
- ALL WORK SHALL BE GUARANTEED TO BE FREE OF DEFECTIVE WORK, MATERIALS, OR PARTS FOR A PERIOD OF 2 YEARS AFTER ACCEPTANCE BY THE OWNER. REPAIR, REVISE OR REPLACE AT NO COST TO THE OWNER, ANY SUCH DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD.
- PIPES AND FITTINGS SPECIFICATIONS:
DOMESTIC WATER PIPING (ABOVE AND BELOW GRADE): CPVC TUBING
ASTM D 1784 W/SOLVENT WELD FITTINGS. PIPING AND FITTINGS SHALL CONFORM TO ASTM D 2846 AND NSF STANDARDS 14 AND 61.
DOMESTIC WATER PIPING (ABOVE AND BELOW GRADE) ALTERNATE: COPPER TUBING
ASTM B88 TYPE "L", HARD DRAWN, W/CAST BRASS OR WROUGHT COPPER FITTINGS
JOINED WITH LEAD-FREE SOLDER OR COPPER PRESS-FIT FITTINGS.
SANITARY SEWER AND VENT PIPING: PVC PIPE, ASTM D2665, SCHEDULE 40 DWV,
W/SOLVENT WELD FITTINGS.
- SLOPE OF SANITARY SEWER PIPING SHALL BE AS FOLLOWS, (UNLESS NOTED OTHERWISE ON FLOOR PLANS):
2 1/2" DIA. OR LESS = 1/4" / FT.
3" TO 6" DIA. = 1/8" / FT.
8" DIA. OR LARGER = 1/16" / FT.
- PROVIDE DRAINS, OVERFLOWS, STRAINERS, P-TRAPS, STOPS & SUPPLIES, ETC. AS REQUIRED. KOHLER, CHICAGO, BRASS CRAFT, OR MCGUIRE ARE ACCEPTABLE MANUFACTURERS FOR THESE ITEMS.
- PROVIDE WATER STOP VALVES IN AN ACCESSIBLE LOCATION FOR EVERY PLUMBING FIXTURE.
- TEST ALL PLUMBING PIPING FOR LEAKS IN ACCORDANCE WITH THE REGULATIONS OF THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION COMPLETION. AT COMPLETION OF PLUMBING WORK, BUT BEFORE THE FINAL INSPECTION IS MADE, THOROUGHLY CLEAN ALL PLUMBING FIXTURES, EQUIPMENT, ESCUTCHEONS, ETC. TO BE FREE FROM ALL MARKS, SCRATCHES, STAINS, ETC. REPLACE ANY DAMAGED OR MARRED ITEMS AT NO COST TO THE OWNER.
- ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED PER THE REQUIREMENTS OF THE 2015 INTERNATIONAL PLUMBING CODE, SECTION 610.
A. PRIOR TO COMMENCING DISINFECTION PROCESS, VERIFY SYSTEM IS COMPLETELY FLUSHED CLEAN. INSURE PH LEVEL OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH), OR ACID (HYDROCHLORIC).
B. INJECT THE CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION (50 MG/L) OF CHLORINE. THE SYSTEM OR PART OF SYSTEM BEING DISINFECTED SHALL BE VALVED CLOSED, AND ALLOWED TO STAND FOR 24 HOURS.
C. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM. TAKE SAMPLES OF WATER NO SOONER THAN 24 HOURS AFTER FLUSHING AND ANALYZE IN ACCORDANCE WITH AWWA C651. REPEAT DIS-INFECTION PROCEDURE IF BACTERIA IS STILL FOUND PRESENT.
- PROVIDE AND INSTALL ALL REQUIRED PIPE FITTINGS, REDUCERS, TRANSITIONS, ADAPTERS, HANGERS, SUPPORTS AND SPECIALTIES NECESSARY FOR A COMPLETE INSTALLATION IN ACCORDANCE WITH CODES AND MFG. REQUIREMENTS.
- ALL ROOF PENETRATIONS SHALL BE CUT & PATCHED BY PLUMBING CONTRACTOR TO MAINTAIN A WATER-PROOF INSTALLATION. P.C. IS RESPONSIBLE TO FIX ANY DAMAGES OR LEAKS IN THE ROOF OR ATTIC SYSTEM WHERE PIPING IS INSTALLED.
- ALL INDIVIDUAL PEX WATER SUPPLIES (BOTH HOT OR COLD WATER) SHALL BE 1/2" DIA. UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
- ALL BALL VALVES SHALL BE FULL PORT TYPE, AND BE OF BRASS OR NICKEL BRONZE CONSTRUCTION, (NO PLASTIC VALVES SHALL BE APPROVED).

PLUMBING FIXTURE SCHEDULE						
I.D.	DESCRIPTION	H.W.	C.W.	W.	V.	SPECIFICATIONS
P-1	WATER CLOSET (FLOOR MTD., TANK TYPE)	-	1/2"	3"	2"	TOTO NO. CST744E FLOOR MOUNTED, TANK TYPE TOILET W/ELONGATED BOWL, (1.28 GPF) AND BEMIS NO. 200E3 CLOSED FRONT, SOLID PLASTIC SEAT W/LID, SUPPLY, STOP, ETC.
P-1A	WATER CLOSET	♿	1/2"	3"	2"	TOTO NO. CST744EL FLOOR MOUNTED, TANK TYPE TOILET W/ELONGATED BOWL, (1.28 GPF) AND BEMIS NO. 200E3 CLOSED FRONT, SOLID PLASTIC SEAT W/LID, SUPPLY, STOP, ETC.
P-3	LAVATORY (COUNTER-TOP)		1/2"	1/2"	1 1/2"	COUNTER-TOP W/INTEGRAL LAVATORY BASIN PROVIDED BY OTHERS. P.C. SHALL PROVIDE MOEN NO. L4625 SINGLE HANDLE CHROME FAUCET W/POP-UP DRAIN, P-TRAP W/CLEAN-OUT, SUPPLIES, & STOPS.
P-3A	LAVATORY (COUNTER-TOP)	♿	1/2"	1/2"	1 1/2"	SAME AS P-3, EXCEPT TO INCLUDE OFF-SET P-TRAP AND MOUNTED TO MEET ADA GUIDELINES. INSTALL TRUEBRO PIPE COVERS ON WATER SUPPLIES AND P-TRAP.
P-6	BATHTUB/SHOWER (30" W. x 60" L.)		1/2"	1/2"	2"	SWANSTONE NO. BT-3060 L/R BATHTUB W/MOEN NO. TL183 TUB AND SHOWER PACKAGE INCLUDING PRESSURE BALANCING MIXING VALVE, TUB SPOUT, AND SHOWER HEAD. ALSO TUB GRID DRAIN AND OVERFLOW ASSEMBLY, P-TRAP, SUPPLIES, ETC. 60" W. x 30" D. x 16" H.
P-6A	BATHTUB/SHOWER (30" W. x 60" L.)	♿	1/2"	1/2"	2"	SWANSTONE NO. BT-3060 L/R BATHTUB W/MOEN NO. TL183 TUB AND SHOWER PACKAGE INCLUDING PRESSURE BALANCING MIXING VALVE, TUB SPOUT, AND SHOWER HEAD. MOEN NO. 52710 HANDSHOWER W/SLIDE BAR, TUB GRID DRAIN AND OVERFLOW ASSEMBLY, P-TRAP, SUPPLIES, ETC. 60" W. x 30" D. x 16" H.
P-7	KITCHEN SINK (DOUBLE BOWL)		1/2"	1/2"	1 1/2"	MOEN NO. G1821340 STAINLESS STEEL, DOUBLE BOWL SINK W/MOEN NO. 7425 SINGLE HANDLE CHROME FAUCET, BASKET DRAIN, P-TRAP W/CLEANOUT, SUPPLIES, STOPS, ETC.
P-7A	KITCHEN SINK (DOUBLE BOWL)	♿	1/2"	1/2"	1 1/2"	ELKAY NO. LRAD332250 STAINLESS STEEL, DOUBLE BOWL SINK W/MOEN NO. 7425 SINGLE HANDLE CHROME FAUCET, BASKET DRAIN, P-TRAP W/CLEANOUT, SUPPLIES, STOPS, ETC.
P-13	WALL HYDRANT		3/4"	-	-	WOODFORD NO. 17 ANTI-FREEZE WALL FAUCET W/VACUUM BREAKER, SUPPLY, ETC.

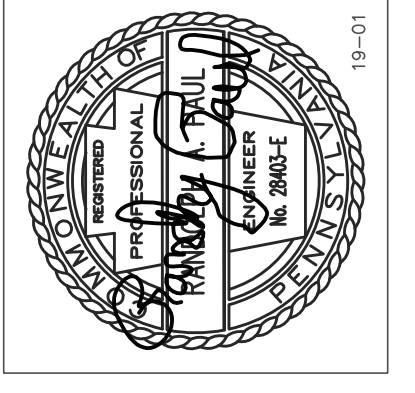
- NOTES:
 1. (()) INDICATES THE ONLY ALTERNATES TO BE ACCEPTED.
 2. ADA COMPLIANT INSULATION COVERS FOR TRAPS AND SUPPLIES SHALL BE TRUEBRO, INC.
 3. ♿ SYMBOL INDICATES FIXTURE TO BE ADA COMPLIANT.



- LEGEND**
- EXTEND AND CONNECT NEW 2" DOMESTIC WATER SERVICE TO EXISTING C.W. MAIN AT EXISTING FOUNDATION WALL.
 - 2" APOLLO FULL PORT BALL VALVE, (TYP.).
 - EXISTING RE-LOCATED WATER METER. INSTALL IN ACCORDANCE WITH LOCAL WATER COMPANY REQUIREMENTS.
 - 2" APOLLO NO. RP-4A REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTER ASSEMBLY. INSTALL AN AIR GAP FITTING AND RUN RELIEF DRAIN TO SPILL TO NEARBY FLOOR DRAIN. INCLUDE A REPAIR KIT IN AN ACCESSIBLE LOCATION.
 - 90° ELBOW WITH DRAIN FITTING.
 - WATER PRESSURE GAUGE.
 - 2" C.W. RISER TO RUN AT CEILING OF CRAWLSPACE.

NOTE:
INSTALL DOMESTIC WATER SERVICE COMPONENTS TIGHT AGAINST WALL BELOW MECHANICAL SYSTEM PIPING. COORDINATE LOCATIONS W/H.C. PRIOR TO CONSTRUCTION.

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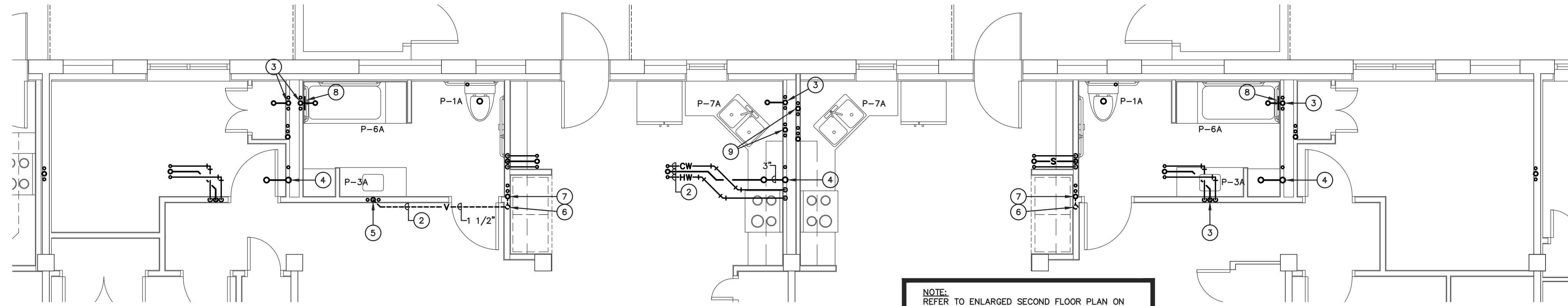
WILLIAM HOWARD DAY HOMES
RENOVATIONS - BUILDINGS K, L & M
HARRISBURG HOUSING AUTHORITY

BUILDING K, L & M
PLUMBING SCHEDULES & DETAILS

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SHEET

P107



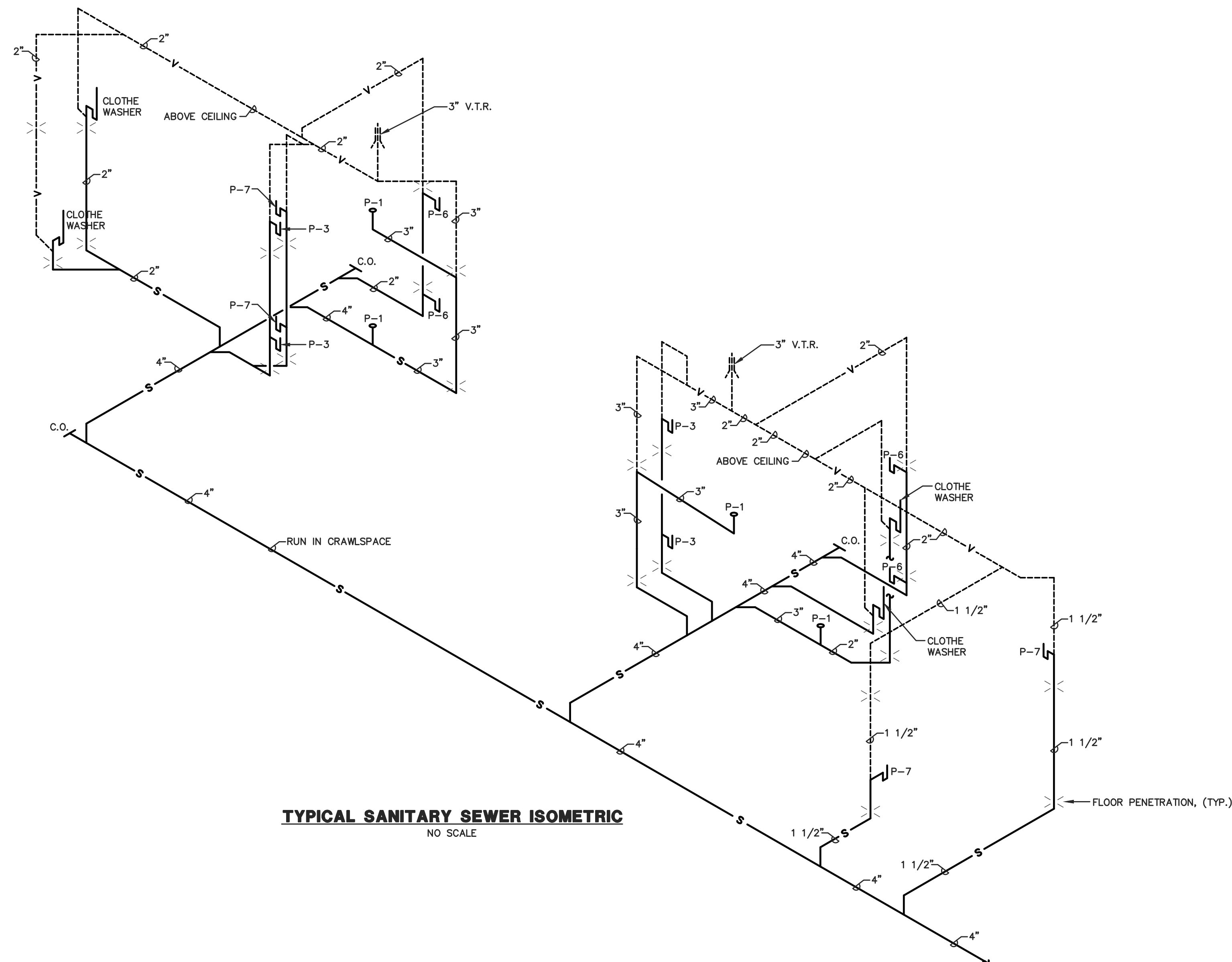
NOTE:
REFER TO ENLARGED SECOND FLOOR PLAN ON DWG. P106 FOR LAYOUT OF FLOOR ABOVE THIS AREA.

BUILDING 'M' FIRST FLOOR - ENLARGED FLOOR PLAN - PLUMBING

SCALE: 1/4" = 1'-0"

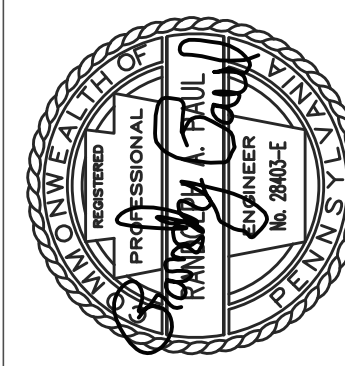
PLAN NOTES

- ① PIPING RUN BELOW FLOOR.
- ② PIPING RUN ABOVE CEILING.
- ③ 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- ④ 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- ⑤ 1 1/2" W. & V.
- ⑥ 2" V.R. TO FLOOR ABOVE. EXTEND AND CONNECT TO NEARBY V. PIPING RUN ABOVE CEILING OF SECOND FLOOR.
- ⑦ PROVIDE SIOUX CHIEF NO. 696-2303MF "OX-BOX" WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
- ⑧ PROVIDE ELMOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.
- ⑨ 1 1/2" W. & V.R. TO FLOOR ABOVE. EXTEND AND CONNECT V. TO NEARBY V. PIPING RUN ABOVE CEILING OF SECOND FLOOR.



TYPICAL SANITARY SEWER ISOMETRIC
NO SCALE

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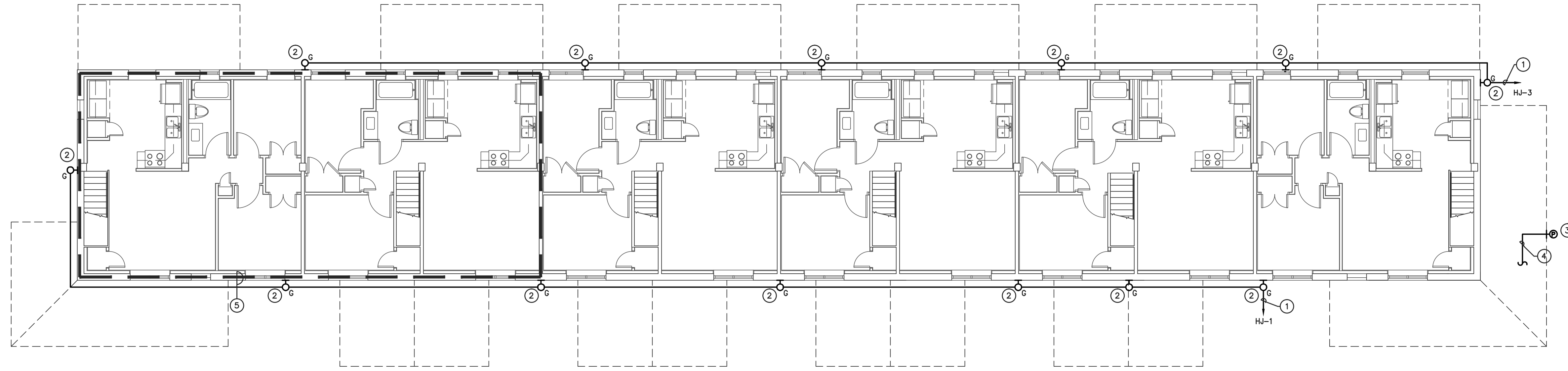
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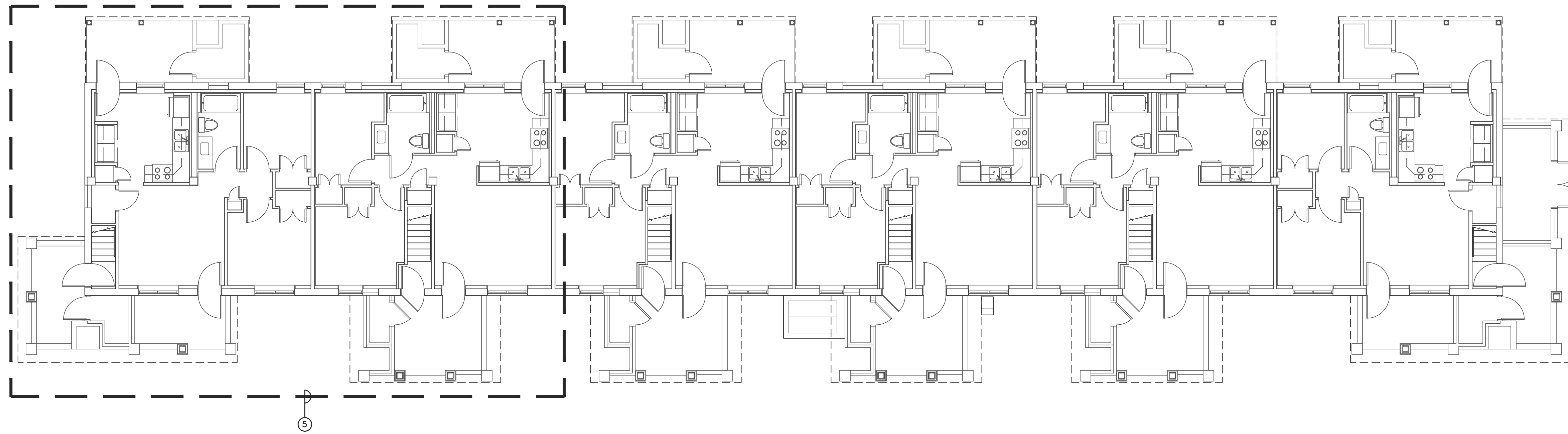
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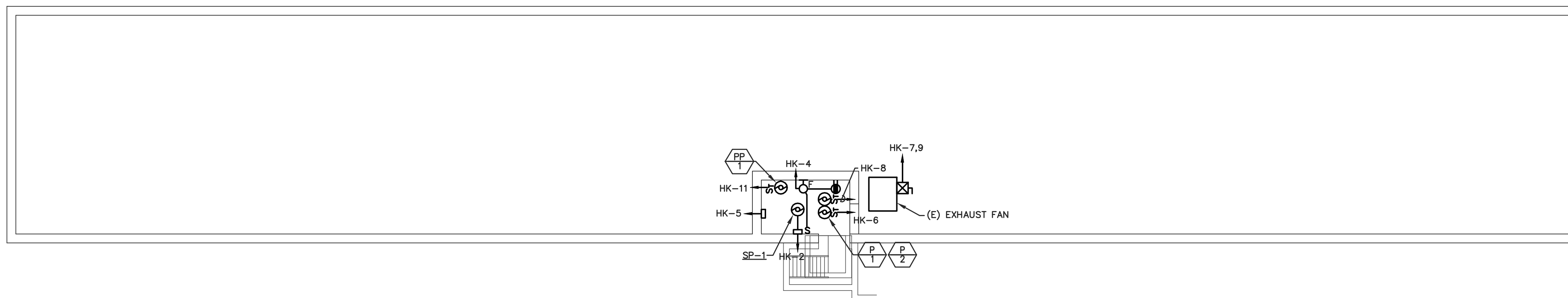
BID DRAWINGS



BUILDING 'K' SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



BUILDING 'K' FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

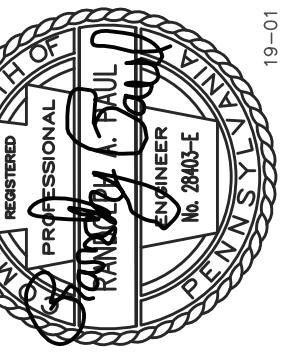


BUILDING 'K' MECHANICAL ROOM PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

- 1 EXTEND WIRING AND CONDUIT VIA LIGHTING CONTACTOR C1. CONTACTOR SHALL BE 4 POLE CONTACTOR IN NEMA 3R ENCLOSURE
- 2 MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.
- 3 MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- 4 PROVIDE 2#12 AND 1/2" GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
- 5 SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.

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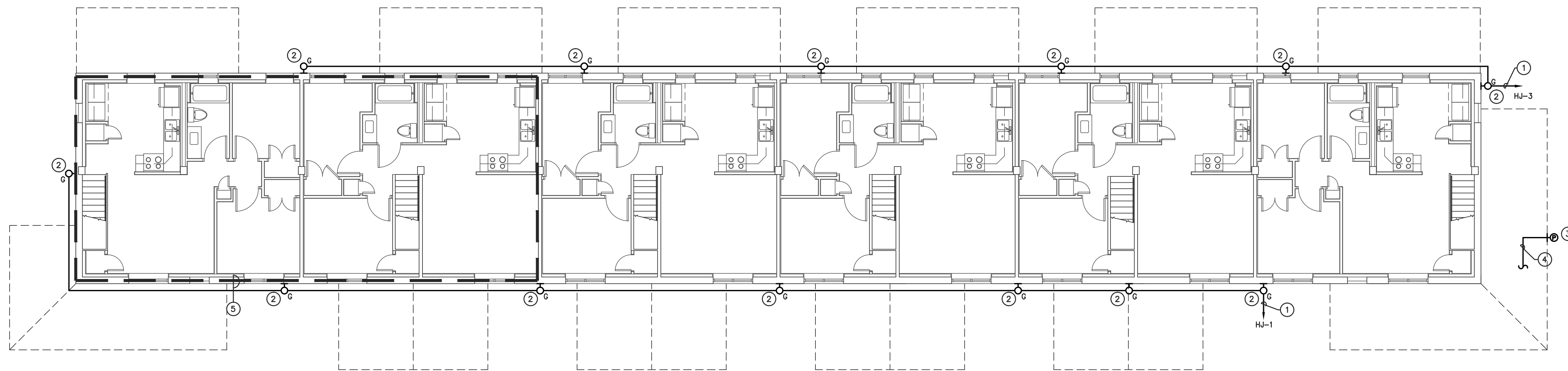
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BUILDING K
FLOOR PLANS - ELECTRICAL

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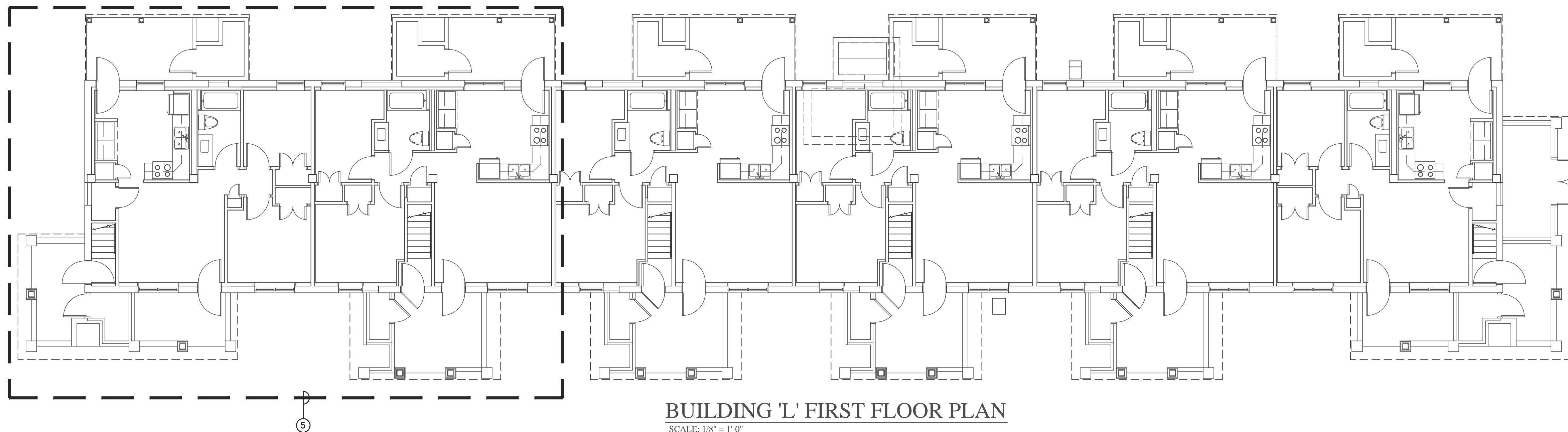
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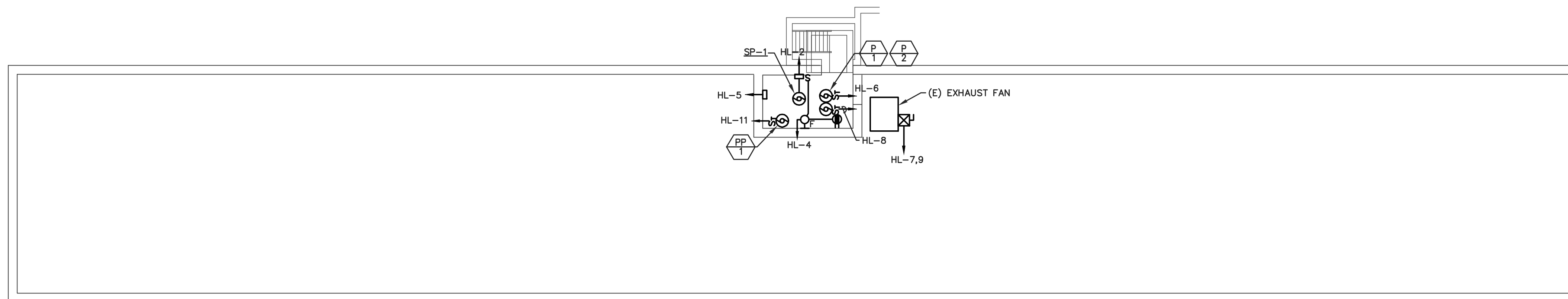
BUILDING 'L' SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"



BUILDING 'L' FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



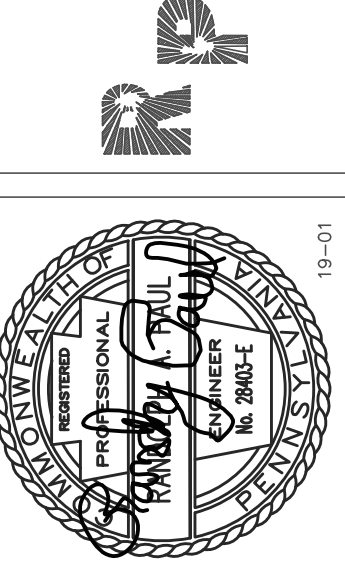
BUILDING 'L' MECHANICAL ROOM PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

- ① EXTEND WIRING AND CONDUIT VIA LIGHTING CONTACTOR C1. CONTACTOR SHALL BE 4 POLE CONTACTOR IN NEMA 3R ENCLOSURE
- ② MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.
- ③ MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- ④ PROVIDE 2#12 AND 1/2" GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
- ⑤ SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.

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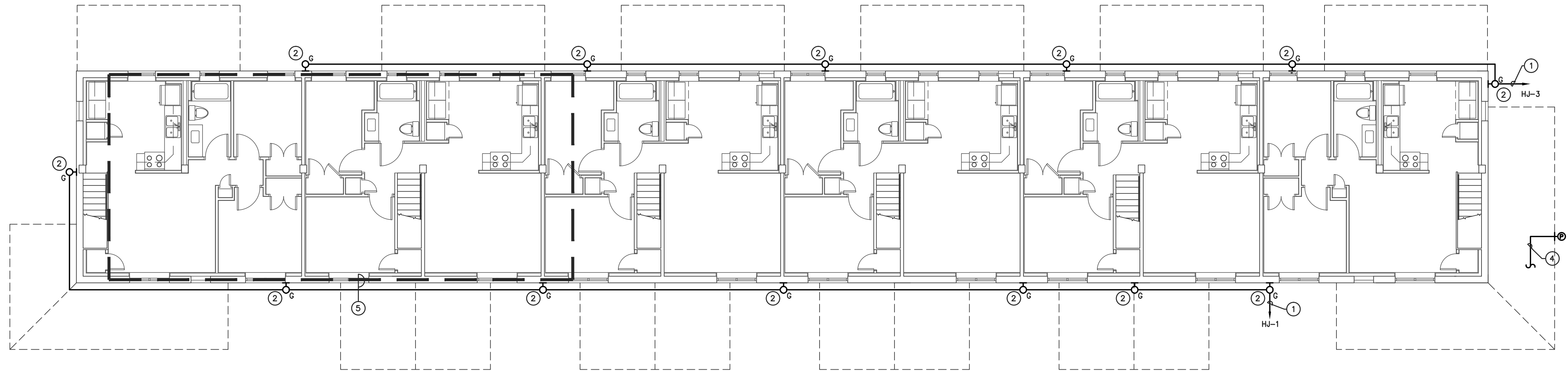


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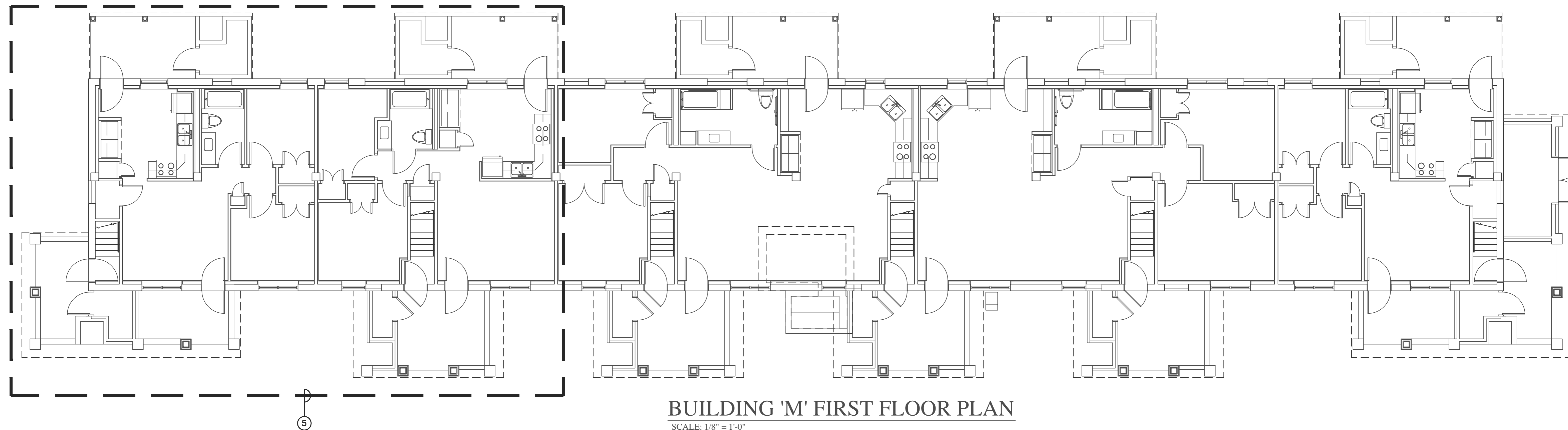
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E102



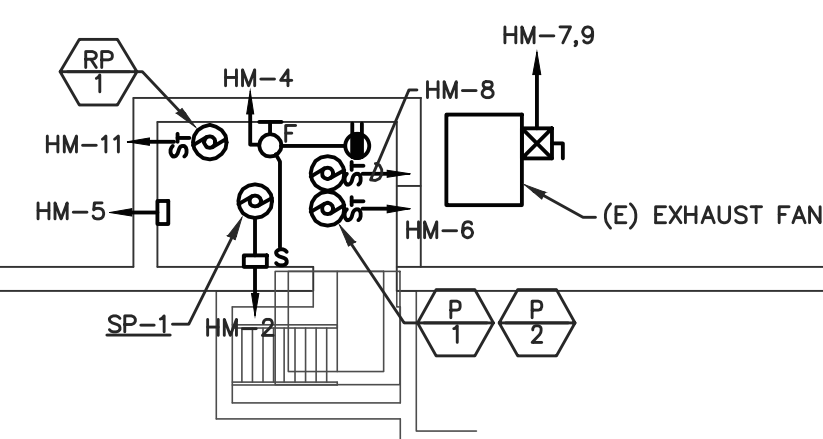
BUILDING 'M' SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"



BUILDING 'M' FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



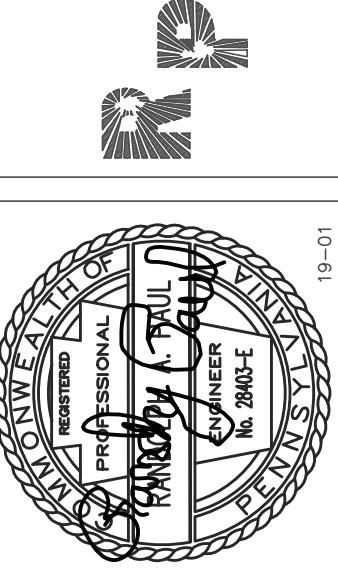
BUILDING 'M' MECHANICAL ROOM PLAN

SCALE: 1/8" = 1'-0"

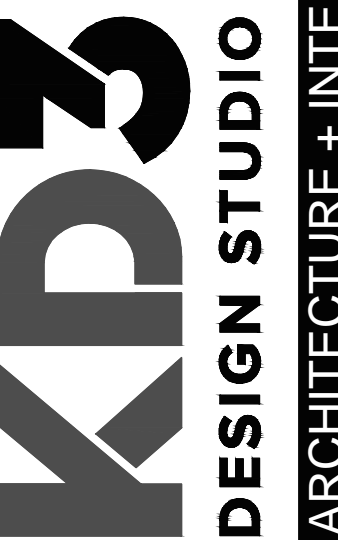
PLAN NOTES:

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- ② MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.
- ③ MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- ④ PROVIDE 2#12 AND 1/2" GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
- ⑤ SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.

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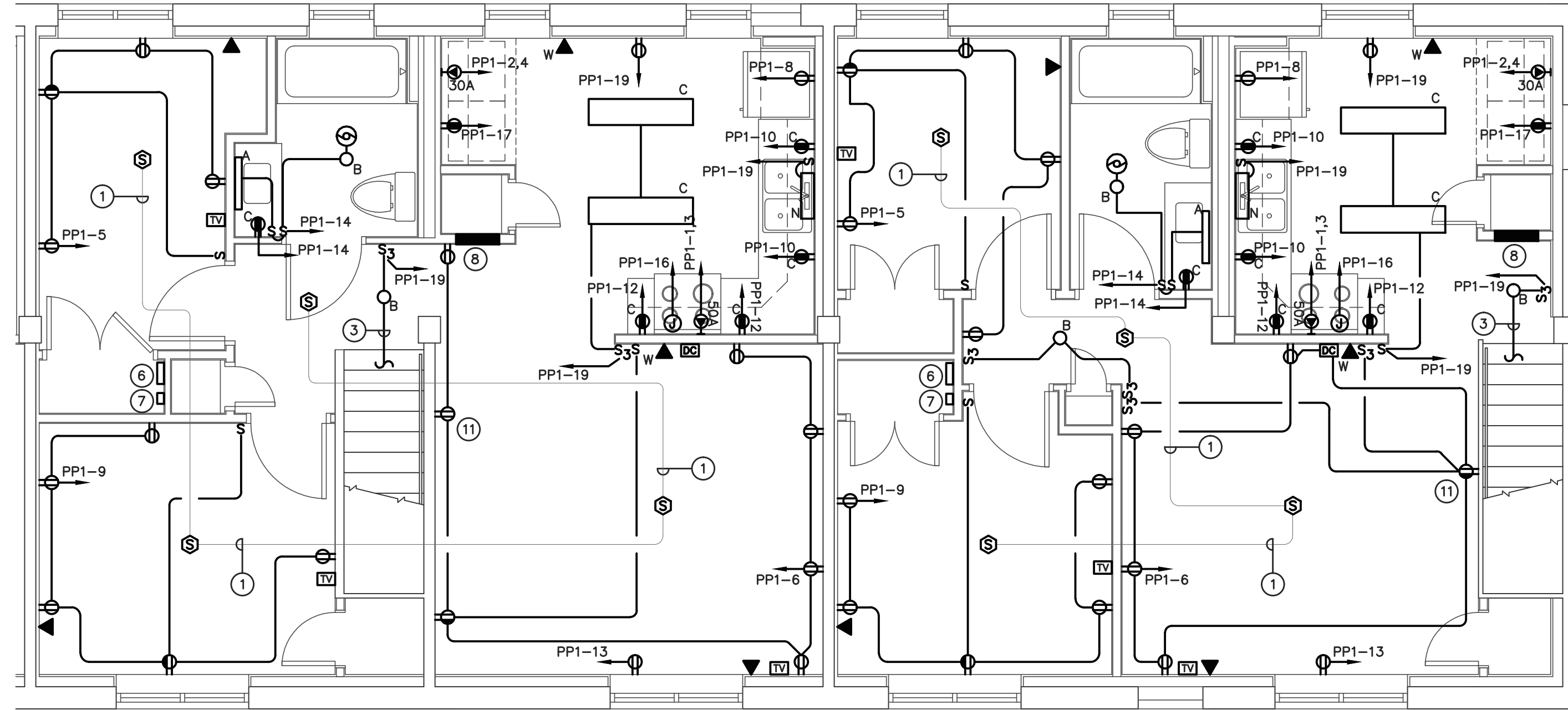


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 FLOOR PLANS - ELECTRICAL

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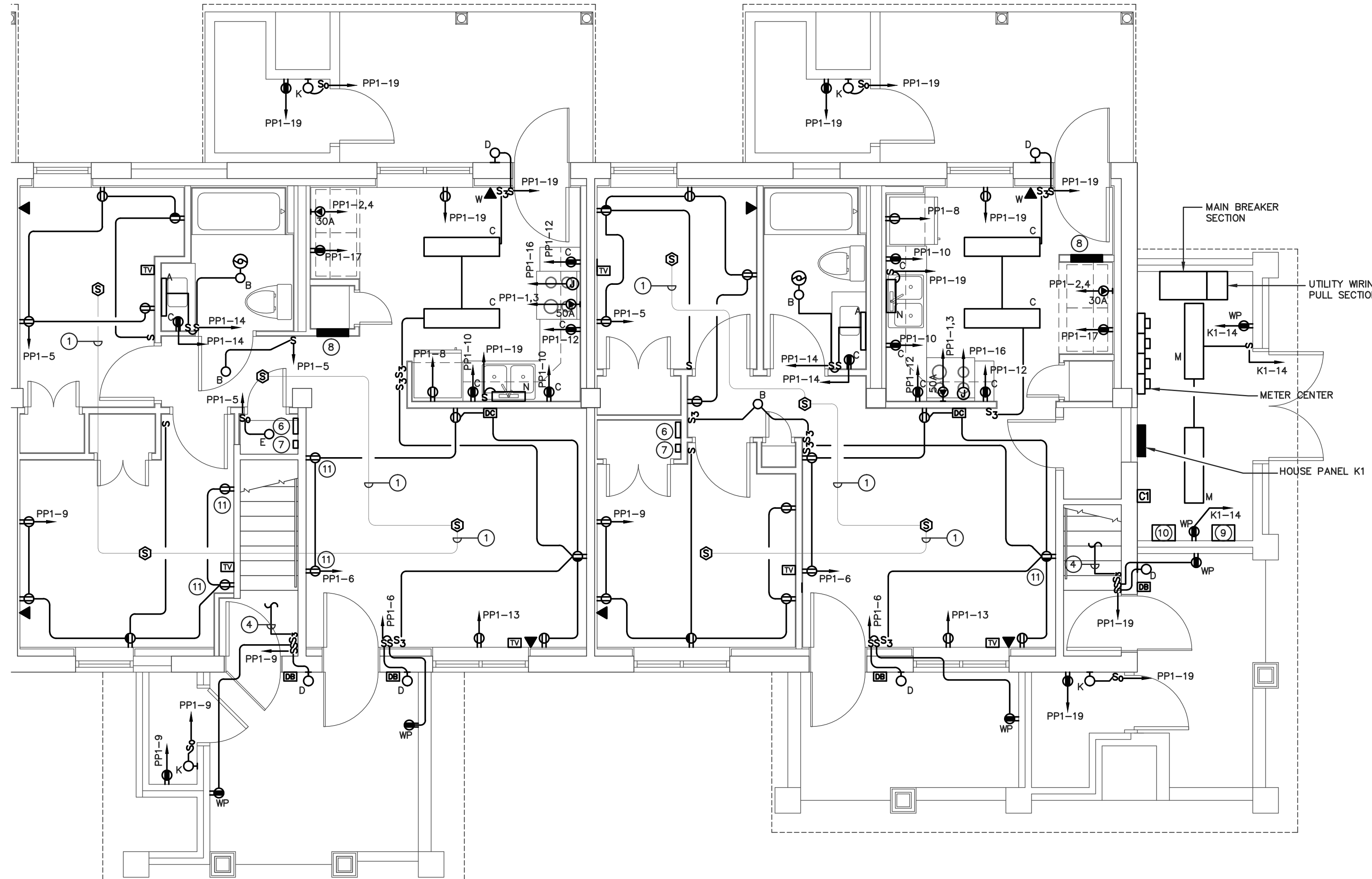
DATE : 03/29/19
 SCALE : AS NOTED
 JOB NO. : 337-W11

SHEET
E103



BUILDING 'K' SECOND FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"



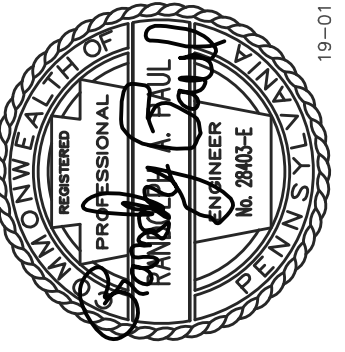
BUILDING 'K' FIRST FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

PLAN NOTES:

- ① CONNECT 120 VOLT SMOKE DETECTOR UNSTITCHED TO CIRCUIT INDICATED. EXTEND THE INTERCONNECTION WIRING AS RECOMMENDED BY THE MANUFACTURER TO INITIATE LOCAL ALARMS ON ALL DETECTORS IN THE EVENT OF ACTIVATION FROM A SINGLE DETECTOR.
- ② COORDINATE FINAL LOCATIONS OF WIRING DEVICES PRIOR TO ROUGH-INS.
- ③ DOWN TO 3-WAY SWITCH LOCATED AT ENTRANCE DOOR.
- ④ UP TO LIGHT FIXTURE AT TOP OF STAIRS.
- ⑤ PROVIDE SURFACE RACEWAY FROM FLOOR TO OUTLET BOX LOCATION WHERE DEVICES ARE LOCATED ON EXISTING WALL CONSTRUCTION. FEED CIRCUIT WIRING FROM FLOOR BELOW.
- ⑥ PROVIDE TERMINATION CABINET WITH SPLITTERS FOR CABLE TV WIRING. PROVIDE A HOME RUN FROM EACH TV JACK OUTLET AND CONNECT TO SPLITTER IN CABINET.
- ⑦ PROVIDE TERMINATION CABINET WITH PUNCH DOWN BLOCK FOR DATA/VOICE CABLE. PROVIDE A HOME RUN FROM EACH TELEPHONE OUTLET AND TERMINATE ON TERMINAL BLOCK.
- ⑧ ELECTRICAL PANEL FOR APARTMENT. 120/240V, 1 PHASE 30 POLE.
- ⑨ CABLE TV SERVICE ENTRANCE EQUIPMENT. COORDINATE REQUIREMENTS WITH CABLE TV UTILITY PROVIDER.
- ⑩ TELEPHONE SERVICE ENTRANCE EQUIPMENT COORDINATE REQUIREMENTS WITH TELEPHONE UTILITY PROVIDER.
- ⑪ RECEPTACLES ON EXISTING STAIR WALL TO BE MOUNTED USING WIREMOLD.

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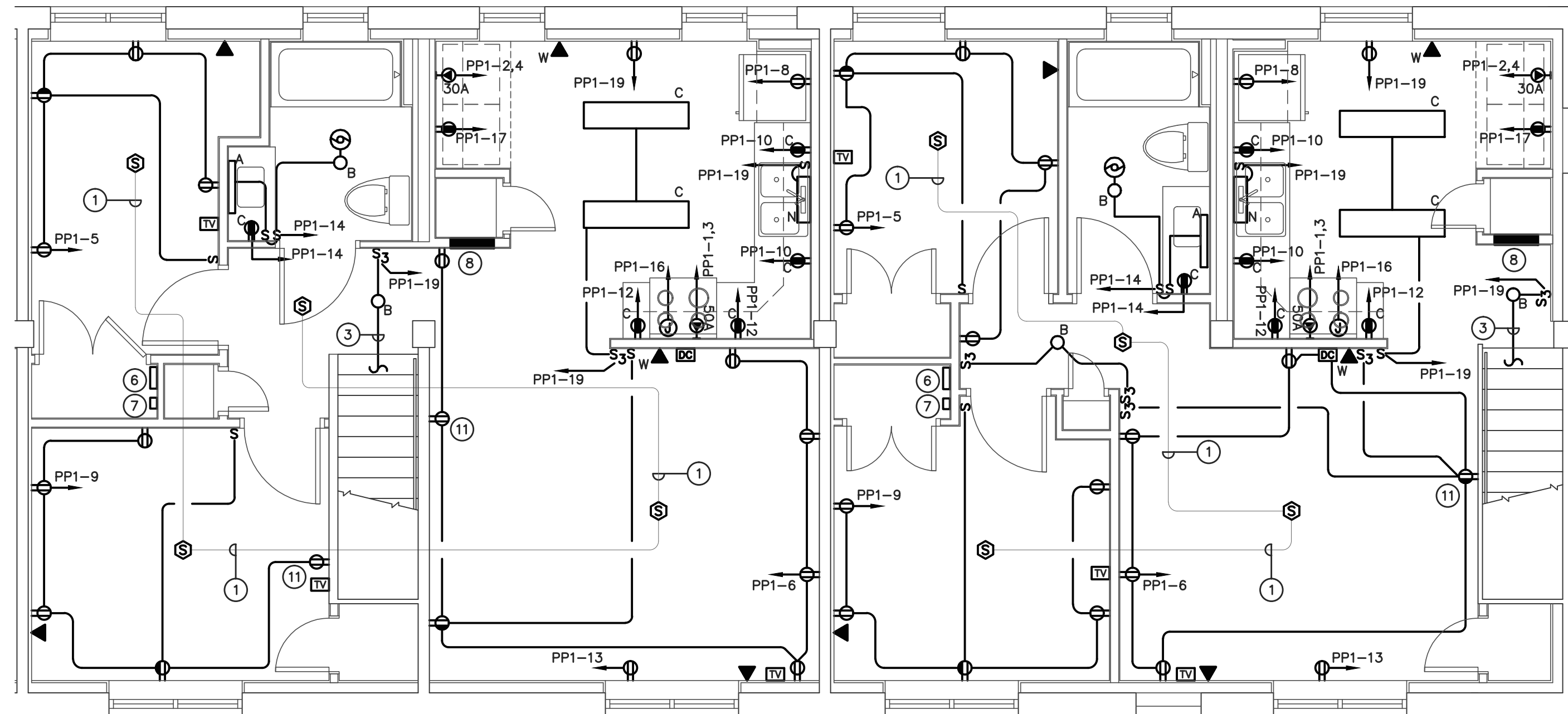
WILLIAM HOWARD DAY HOMES
RENOVATIONS - BUILDINGS K, L & M
HARRISBURG HOUSING AUTHORITY
BUILDING K
LARGE SCALE PLAN - ELECTRICAL

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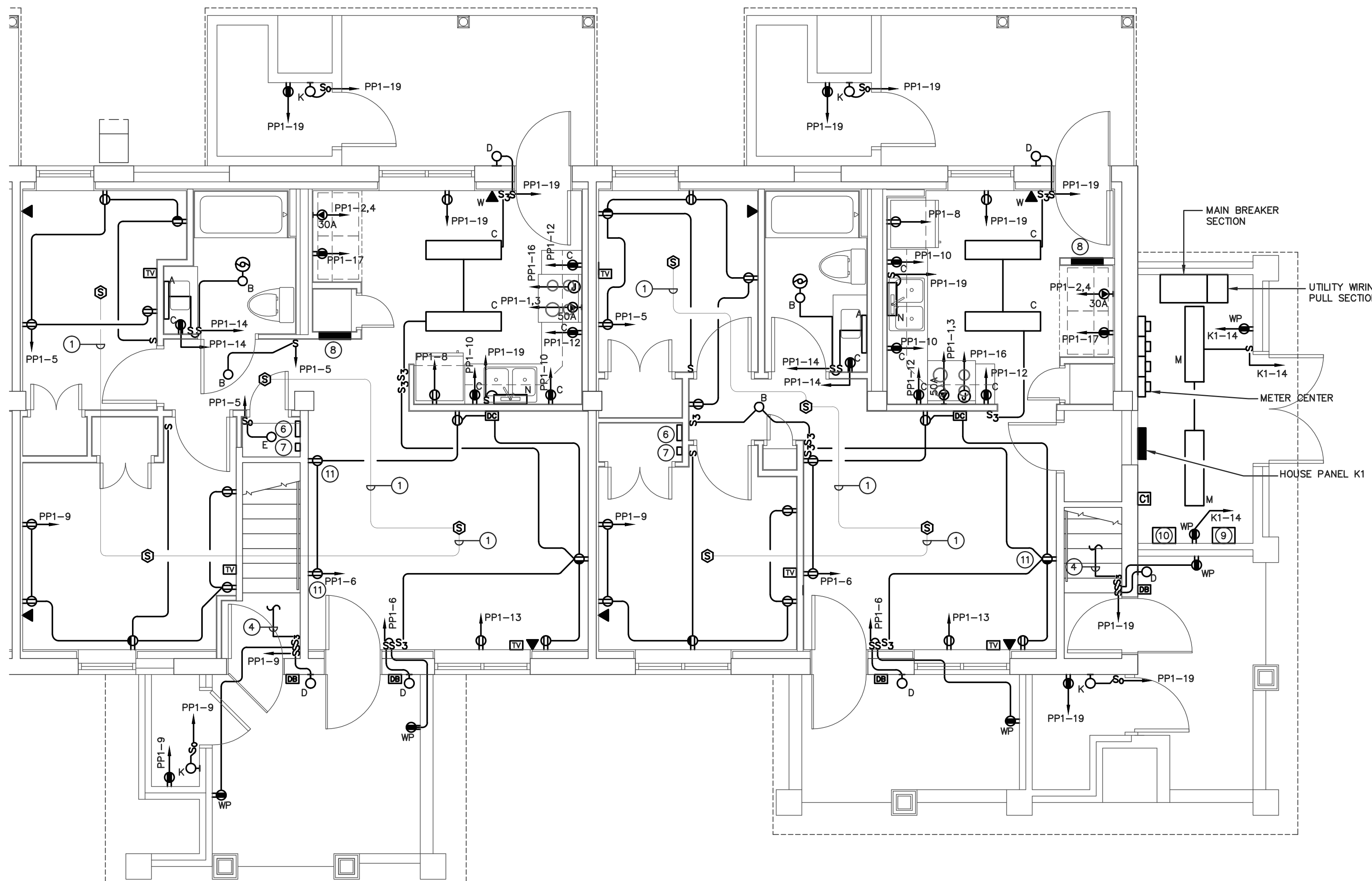
E104

BID DRAWINGS



BUILDING 'L' SECOND FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"



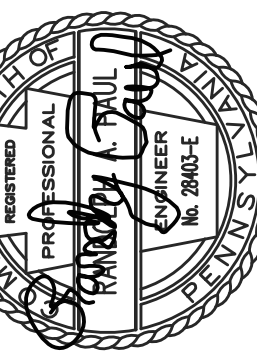
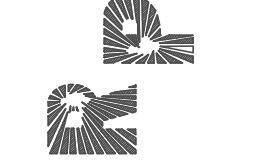
BUILDING 'L' FIRST FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

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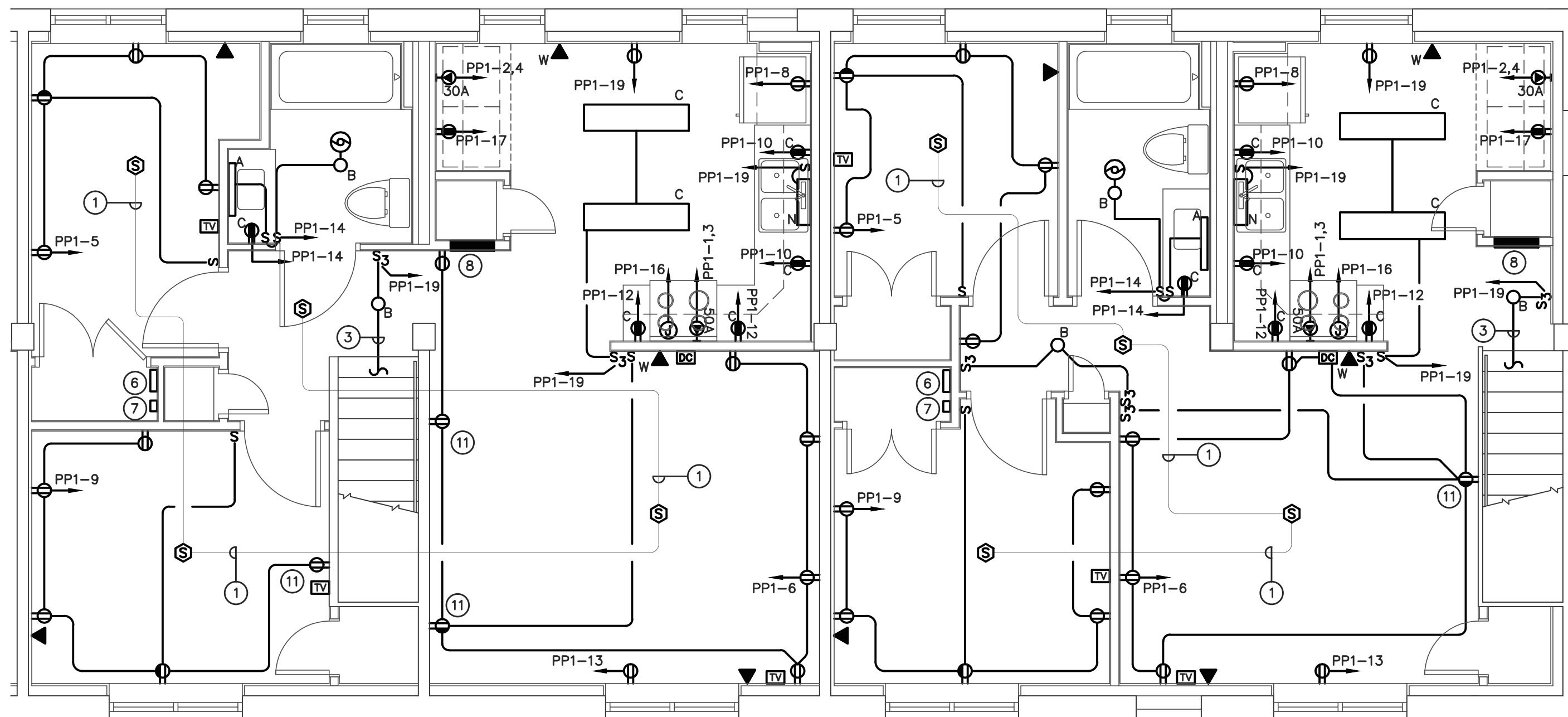
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HARRISBURG HOUSING AUTHORITY
BUILDING L
LARGE SCALE PLAN - ELECTRICAL

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BID DRAWINGS

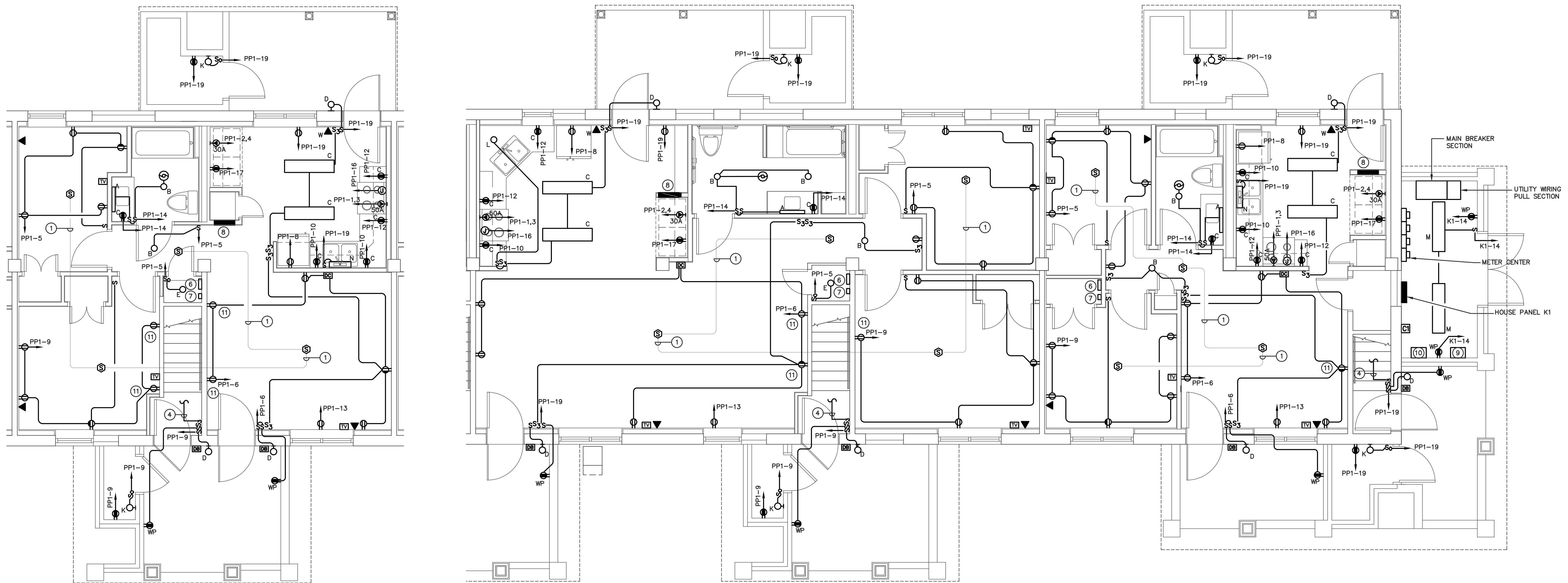


BUILDING 'M' SECOND FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

PLAN NOTES:

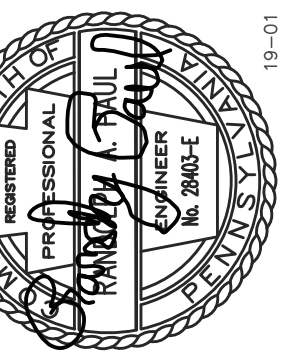
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BUILDING 'M' FIRST FLOOR - LARGE SCALE PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

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BUILDING M
LARGE SCALE PLAN - ELECTRICAL

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SHEET

E106

BID DRAWINGS

GENERAL NOTES:

- 1. REFER TO GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, DIVISION 25, 26, 27 & DIVISION 28 AND ALL OTHER SPECIFICATION SECTIONS AND ALL DRAWINGS FOR REQUIREMENTS OF THE CONTRACT.
- 2. THIS CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO PROVIDE COMPLETE AND WORKING ELECTRICAL SYSTEMS WHETHER SPECIFIED OR IMPLIED.
- 3. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, INCLUDING AMENDMENTS, AND ALL APPLICABLE STATE AND LOCAL CODES.
- 4. PROVIDE ALL REQUIRED NOTICES, OBTAIN AND PAY FOR ALL PERMITS, AND PAY ALL DEPOSITS AND FEES NECESSARY FOR THE INSTALLATION TESTS AND INSPECTION OF ALL WORK PROVIDED. UNDER THIS SPECIFICATION, TEST SHALL BE CONDUCTED AS REQUIRED BY THE REGULATIONS OF THE LOCAL AND STATE AUTHORITIES.
- 5. NOTHING CONTAINED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH THE STATE OR LOCAL CODES, ORDINANCES OR REGULATIONS GOVERNING INSTALLATION OF THE WORK SPECIFIED HEREIN. ALL REGULATIONS OF PUBLIC BODIES HAVING AUTHORITY OVER THE CONDUCT OF THE WORK HEREBY INCORPORATED AND MADE A PART OF THESE SPECIFICATIONS. SHOULD ANY CHANGE IN THE DRAWINGS AND/OR SPECIFICATIONS BE REQUIRED TO CONFORM TO CODES, ORDINANCES, REGULATIONS OR LAWS MENTIONED ABOVE, THE ENGINEER SHALL BE NOTIFIED.
- 6. FAILURE TO MAKE AN ON-SITE INSPECTION PRIOR TO SUBMITTING A BID WILL NOT RELIEVE THIS CONTRACTOR FROM THE RESPONSIBILITIES OF PROPERLY ESTIMATING THE REQUIREMENTS OR COSTS OF SUCCESSFUL COMPLETION OF THE WORK NOR FROM THE RESPONSIBILITY FOR THE FAITHFUL PERFORMANCE OF THE PROVISIONS OF THIS CONTRACT
- 7. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- 8. THE CONTRACTOR SHALL PROJECT AT HIS OWN EXPENSE. ALL EXISTING FACILITIES AND HIS NEW WORK DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON HIS PART OF THE CONTRACTOR OR HIS REPRESENTATIVE, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVE, EITHER TO THE EXISTING WORK, OR TO HIS WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE AND TO THE PROFESSIONAL'S SATISFACTION.
- 9. ALL CUTTING, PATCHING, FINISHING AND PAINTING FOR THE PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE DONE IN A NEAT WORKMANSHIP MANNER BY THE CONTRACTOR. ALL CUTTING SHALL BE KEPT TO AN ABSOLUTE MINIMUM CONSISTENT WITH THE REQUIREMENTS OF THE PROJECT. CUTTING, PATCHING AND FINISHING SHALL BE DONE BY WORKMAN SKILLED IN THIS TYPE OF WORK. ALL PATCHING SHALL BE DONE UTILIZING MATERIALS OF THE SAME QUALITY AND TEXTURE AS THE ADJACENT UNDISTURBED AREAS. ALL FINISHING AND PAINTING SHALL MATCH THE UNDISTURBED ADJACENT AREAS AND TO THE SATISFACTION OF THE OWNER
- 10. UPON COMPLETION OF THE ELECTRICAL WORK, THIS CONTRACTOR SHALL REMOVE ALL DIRT, FOREIGN MATERIALS, STAINS, FINGERPRINTS, ETC. FROM ALL LIGHTING FIXTURES, PANELS, PLATES, ADJACENT SURFACES, ETC. INSTALLED UNDER THIS PROJECT, AND SHALL LEAVE THE ELECTRICAL WORK IN SUCH A CONDITION THAT NO CLEANING BY THE OWNER IS REQUIRED.
- 11. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE PROFESSIONAL AND OWNER. ANY WORK FOUND BY THE PROFESSIONAL AND/OR THE OWNER TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED UNTIL APPROVAL OF THE PROFESSIONAL IS OBTAINED. ANY COST INVOLVED IN OBTAINING SAID APPROVAL SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 12. ANY REQUIRED INTERRUPTION OF ANY SERVICES SHALL BE DONE WITH THE APPROVAL OF AND AT THE CONVENIENCE OF THE OWNER.
- 13. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR, REPLACE AND MAINTAIN IN SERVICE ANY UTILITIES, FACILITIES OR SERVICES (UNDERGROUND, OVER GROUND, INTERIOR OR EXTERIOR) DAMAGED, BROKEN, OR OTHERWISE RENDERED INOPERATIVE DURING THE COURSE OF CONSTRUCTION BY HIM OR HIS REPRESENTATIVES.
- 14. THE CONTRACTOR SHALL GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF THE FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF THE MANUFACTURER'S GUARANTEE AND THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIAL AND PARTS REGARDLESS OF CAUSE (EXCLUDING DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OR ACTS OF GOD AFTER THE SYSTEM HAS BEEN ACCEPTED BY THE OWNER.)
- 15. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO PREVENT INTERFERENCES BETWEEN BEAMS, STRUCTURES, PIPING, DUCTWORK, ETC.

INSTALLATION REQUIREMENTS AND CLEARANCES:

- 1. INSTALL EQUIPMENT ALONG WITH CONTROL DEVICES AND ALL REPLACEABLE FITTINGS WITH SUFFICIENT CLEARANCE FOR OPERATION AND MAINTENANCE FUNCTIONS.

EXCAVATION AND BACKFILL:

- 1. PROVIDE ALL EXCAVATION, BACKFILLING, SHORING, SAW CUTTING, SHEETING, PUMPING AND OTHER WORK INCIDENTAL TO THE INSTALLATION OF UNDERGROUND DUCT BANK FOR THIS PROJECT.
- 2. TRENCH DEPTHS SHALL BE A MINIMUM OF 36" BELOW GRADE UNLESS NOTED OTHERWISE.
- 3. BACKFILL SHALL BE MADE WITH CLEAN FILL, FREE FROM ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS. BACKFILL SHALL BE DEPOSITED IN UNIFORM LAYERS NOT OVER 6" LIFT INTERVALS AND COMPACTED AT EACH LIFT.
- 4. EXCAVATION ADJACENT TO AND UNDER FOOTING AND FOUNDATIONS SHALL BE BACKFILLED SOLIDLY WITH 3000 PSI MINIMUM CONCRETE TO AN ELEVATION LEVEL WITH BOTTOM OF FOOTINGS AND FOUNDATIONS.
- 5. ALL EXCAVATION MATERIAL REMAINING AFTER BACKFILLING OPERATION SHALL BE REMOVED FROM SITE.
- 6. ALL SURFACE AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED IN A MANNER THAT IS ACCEPTED BY BOTH THE PROFESSIONAL AND OWNER.

ALTERATIONS TO EXISTING SYSTEMS AND DEMOLITION

- 1. THIS CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING WIRING, CONDUIT, DEVICES, LIGHTING, ELECTRICAL EQUIPMENT, ETC. FROM EXISTING BUILDINGS.
- 2. MATERIALS AND EQUIPMENT REMOVED AS PART OF THE DEMOLITION WORK UNDER THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED PROMPTLY FROM THE PROJECT SITE. DISPOSAL SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE AUTHORITIES AT THE DISPOSAL SITE. REFER TO SUMMARY OF WORK AND CONTRACT DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 3. ANY EXISTING EQUIPMENT SCHEDULED TO BE RETAINED, AND LEFT DE-ENERGIZED BECAUSE OF REMOVAL OF EXISTING EQUIPMENT OR CIRCUITS, SHALL HAVE A NEW HOMERUN INSTALLED TO THE NEAREST PANEL AND CONNECTED TO A SPARE BREAKER OF REQUIRED SIZE.
- 4. ALL WORK SHALL BE PERFORMED AND SCHEDULED WITH THE OWNER'S REPRESENTATIVE. COORDINATE HOURS OF CONSTRUCTION THAT WILL NOT INTERFERE WITH NORMAL OCCUPIED OPERATIONS OF THE FACILITY.
- 5. PER SUMMARY SCOPE OF WORK - DEMOLITION CONTRACTOR TO PROVIDE DEMOLITION OF EXISTING SYSTEMS. INDICATE AS SUCH ON THE DRAWINGS.

LIGHTING FIXTURE SCHEDULE

Table with 8 columns: I.D., DESCRIPTION, MANUF., CAT. NO., TYPE, LAMPS, MTG., REMARKS. Rows A through N describe various lighting fixtures including wall mounted, surface mounted, ceiling mounted, and undercabinet fixtures.

- NOTES
1. COORDINATE CEILING TYPES WITH ARCHITECTURAL DRAWINGS FOR MOUNTING.
2. OWNER MAY SUBSTITUTE LIKE FIXTURES

SYMBOLS

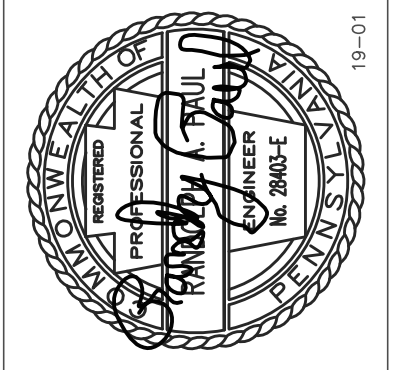
Note 1
Diagrammatic symbols for various electrical components such as light fixtures (ceiling, wall, emergency, wall, double pole, three-way, four-way, dimmer, occupancy sensor), duplex receptacles, fire alarm pull stations, and detectors (smoke, heat, duct).

ABBREVIATIONS

Table listing abbreviations and their meanings, including AMPERE, ABOVE, ABOVE FINISHED FLOOR, AUTOMATIC TRANSFER SWITCH, CIRCUIT BREAKER, DISCONNECT, DRAWING, FEEDER, FEET, GENERAL CONTRACTOR, etc.

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RANDY PAUL & ASSOCIATES, INC. logo and contact information for Mechanical & Electrical Engineering.

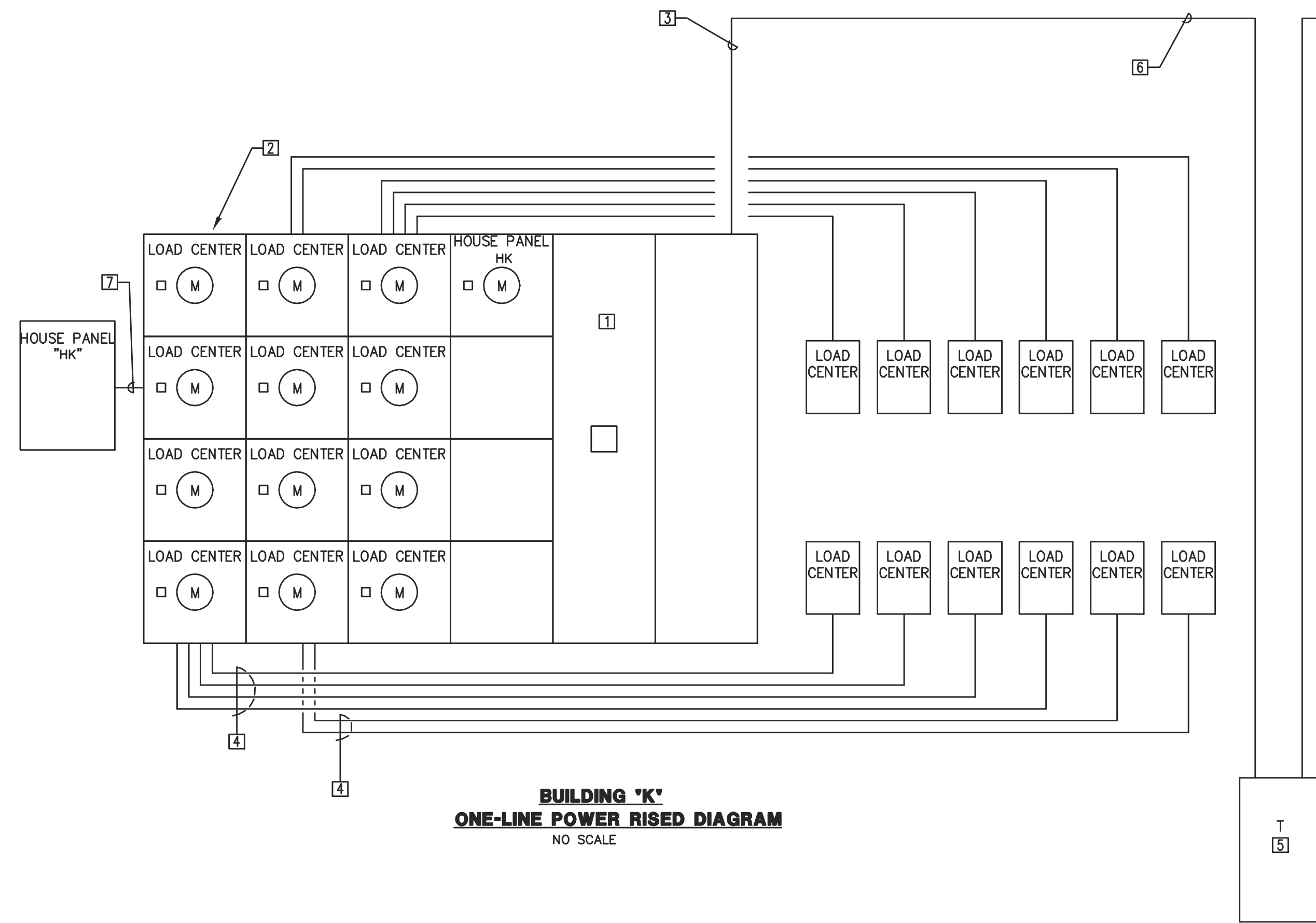


KD3 DESIGN STUDIO logo and contact information for Architecture + Interior Design.

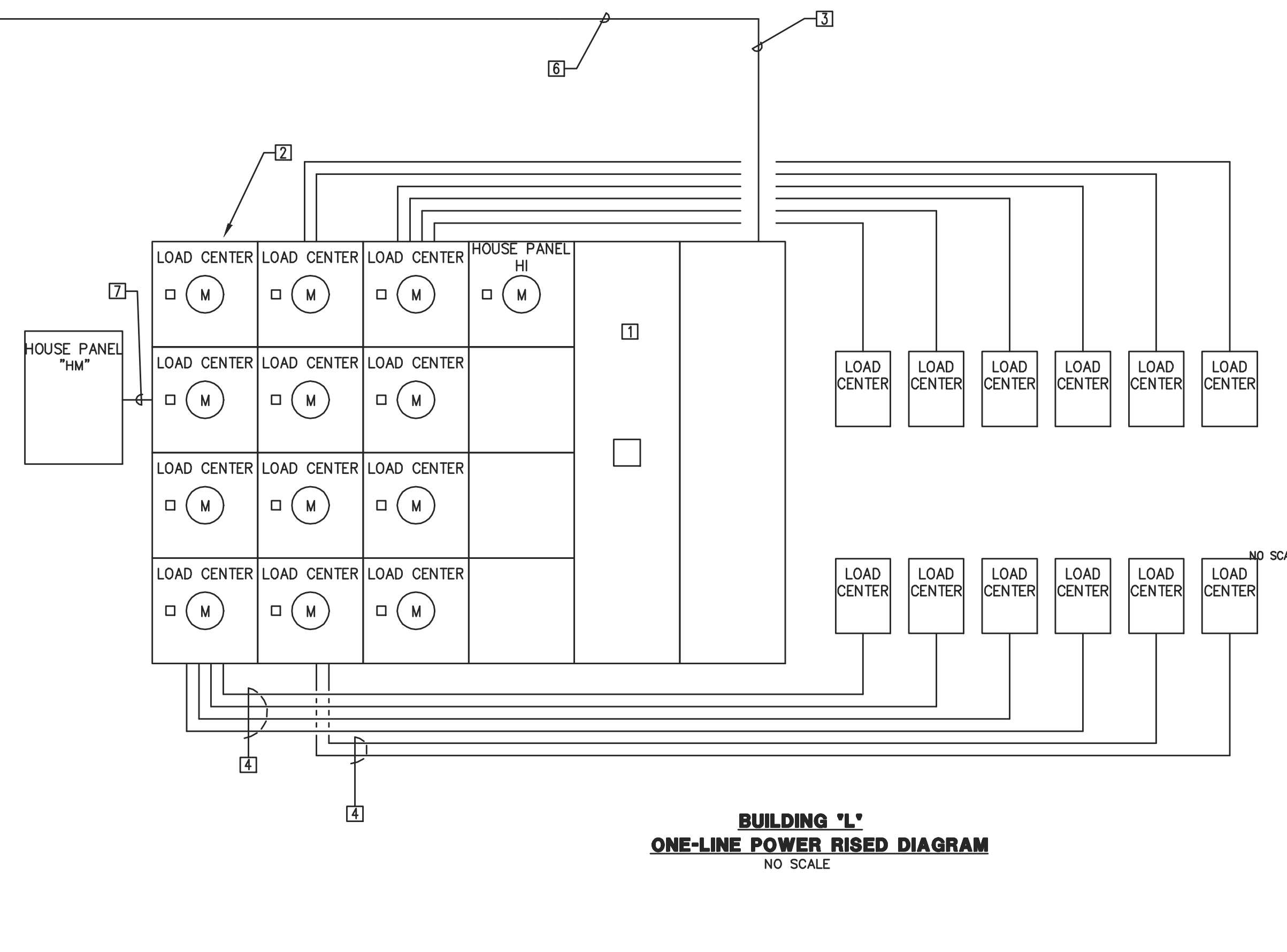
WILLIAM HOWARD DAY HOMES RENOVATIONS - BUILDINGS K, L & M HARRISBURG HOUSING AUTHORITY
BUILDINGS K, L & M SCHEDULE, NOTES, ABBREVIATIONS AND SYMBOLS

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BUILDING 'K'
ONE-LINE POWER RISED DIAGRAM
NO SCALE



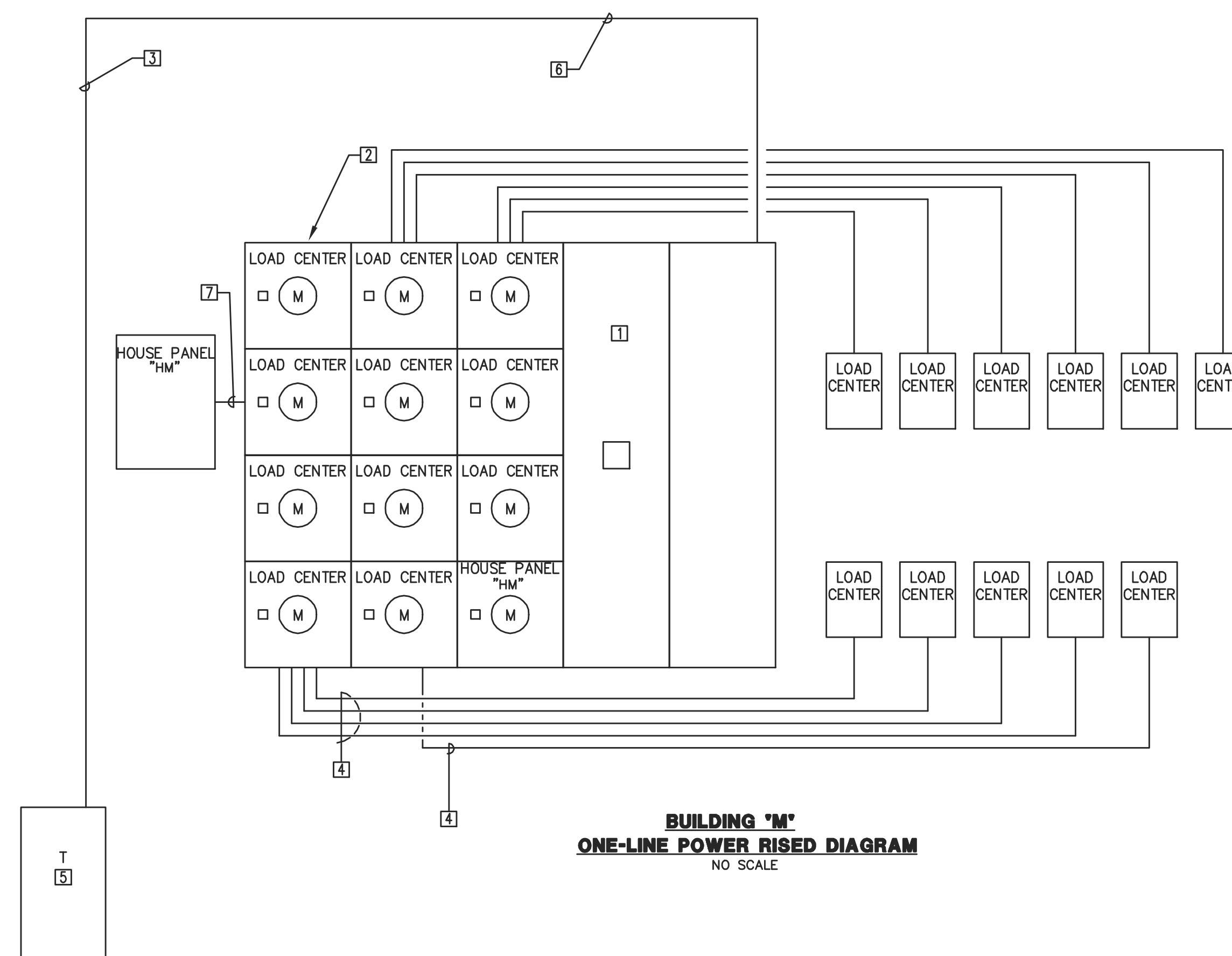
BUILDING 'L'
ONE-LINE POWER RISED DIAGRAM
NO SCALE

APARTMENT LOAD CENTER PP1									
PANEL: -- VOLTAGE: 120/240 PHASE: 1 ND. WIRE: 3 MOUNTED: --- 200 AMP BUS & LUG 30 MIN. ND. POLES 200 AMP MAIN BREAKER --- MLO									
CIR. NO.	EQUIPMENT	BREAKER	FEEDER	AMPS		FEEDER	BREAKER	EQUIPMENT	CIR. NO.
				A#	B#				
1	ELECTRICAL RANGE	50A-2P	3#6 W/G	18.3	10.4		50A-2P	ELECTRICAL DRYER	2
3					18.3	10.4			4
5	RECEPTACLE BEDROOM	20A-1P	2#12 W/G	7.5	6.0		20A-1P	RECEPTACLE LIVING ROOM	6
7	ARC FAULT							REFRIGERATOR	8
9	RECEPTACLE BEDROOM	20A-1P	2#12 W/G	7.5	3.0		20A-1P	RECEPTACLES KITCHEN	10
11	ARC FAULT							RECEPTACLES KITCHEN	12
13	RECEPTACLE LVG RM AC UNIT	20A-1P	2#12 W/G	12.5	5.8		20A-1P	LIGHTING EXHAUST FAN BATH	14
15	SPARE	20A-1P				6.6	20A-1P	RANGE HOOD	16
17	WASHER	20A-1P	2#12 W/G	8.0			20A-1P	SPARE	18
19	LIGHTING	20A-1P	2#12 W/G		4.2		20A-1P	SPARE	20
21	SPARE	20A-1P					20A-1P	SPARE	22
23	SPARE	20A-1P					20A-1P	SPARE	24
25	SPARE	20A-1P					20A-1P	SPARE	26
27	BUSSED SPACE							BUSSED SPACE	28
29	BUSSED SPACE							BUSSED SPACE	30
				79.0	55.1				

● ARC FAULT INTERRUPTER BREAKER

HOUSE PANEL HK, HL, HM									
PANEL: HOUSE VOLTAGE: 120/240 PHASE: 1 ND. WIRE: 3 MOUNTED: SURFACE 125 AMP BUS & LUG 24 MIN. ND. POLES 125 AMP MAIN BREAKER --- MLO									
CIR. NO.	EQUIPMENT	BREAKER	FEEDER	AMPS		FEEDER	BREAKER	EQUIPMENT	CIR. NO.
				A#	B#				
1	LIGHTING EXTERIOR BUILDING	20A-1P	2#10 W/G	3.3	9.8	2#10 W/G	20A-1P	SUMP PUMP SP-1	2
3	LIGHTING EXTERIOR BUILDING	20A-1P	2#10 W/G		3.3	3.3	20A-1P	LIGHT AND RECEPTACLE	4
5	CONTROL PANEL	20A-1P	2#10 W/G	4.2	14.1	2#10 W/G	30A-1P	CIRCULATING PUMP	6
7	EXISTING EXHAUST FAN	20A-2P	3#6 W/G			4.2	30A-1P	CIRCULATING PUMP	8
9							20A-1P	SPARE	10
11	RECIRCULATING PUMP	20A-1P	2#10 W/G			4.4	20A-1P	SPARE	12
13	SPARE	20A-1P		4.2		2#12 W/G	20A-1P	UTILITY SHED LIGHT AND REC'S	14
15	SPARE	20A-1P						BUSSED SPACE	16
17	SPARE	20A-1P						BUSSED SPACE	18
19	SPARE	20A-1P						BUSSED SPACE	20
21	BUSSED SPACE							BUSSED SPACE	22
23	BUSSED SPACE							BUSSED SPACE	24
				39.8	29.7				

- PLAN NOTES:**
- 1] PROVIDE 1000 AMP MAIN BREAKER AND METER CENTER IN ACCORDANCE WITH PPL REQUIREMENTS.
 - 2] PROVIDE A 1000 AMP METER CENTER WITH 125 AMP METER BASES AND A 125A-2P MAIN BREAKER.
 - 3] PROVIDE ALL TRENCHING, BACKFILLING AND CONDUITS REQUIRED FOR SECONDARY SERVICE TO MAIN BREAKER.
 - 4] PROVIDE 3-#1/0 AND 1-# 8 GROUND IN 2" CONDUIT AND TERMINATE IN LOAD CENTER IN EACH APARTMENT UNIT.
 - 5] EXISTING GROUND MOUNTED TRANSFORMER. SITE VISIT AND VERIFY EXISTING LOCATION.
 - 6] PROVIDE 2 SETS OF 3-#750KCMIL AND 1-#2/0 GROUND IN 2-4" CONDUITS AND PROVIDE FINAL TERMINATIONS TO METER CENTER.
 - 7] PROVIDE 3-#1 AND 1-#6 GROUND IN 1 1/2" CONDUITS.



BUILDING 'M'
ONE-LINE POWER RISED DIAGRAM
NO SCALE