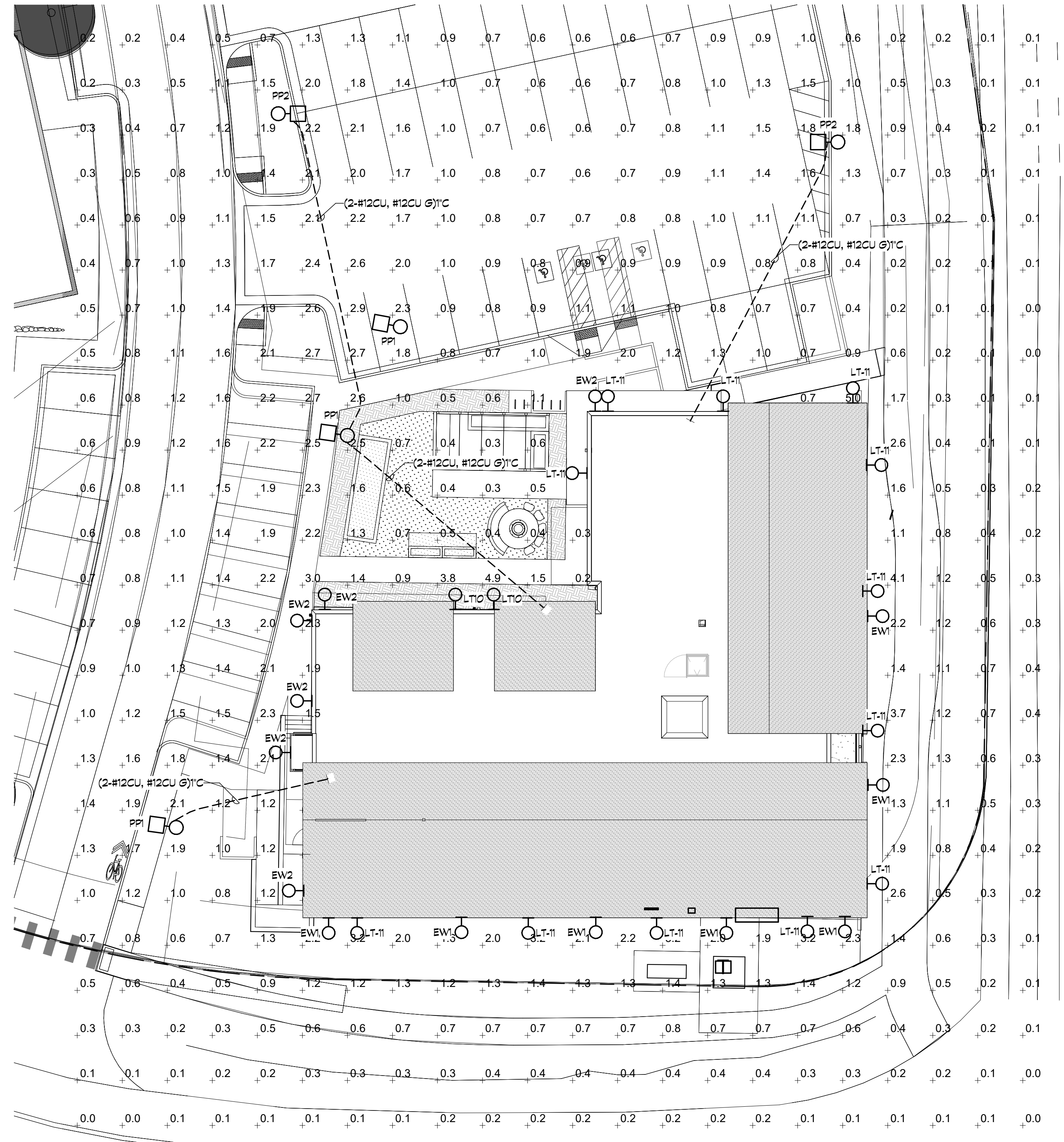


### EXTERIOR LUMINAIRE SCHEDULE

KEY	LAMP	DESCRIPTION	CEILING (DEPTH)	DIM	MANUFACTURER/#	VOLT
PP1	LED 2700K 5500LM 51W	LED AREA POLE FIXTURE, P1 PERFORMANCE, FORWARD THROW DISTRIBUTION, HOUSESIDE SHIELD, FULL CUTOFF	POLE (20'-0" AFS)	0-10V	DSX1-LED-P1-27K-50CRI-TFTM-HS	120V
PP2	LED 2700K 6600LM 51W	LED AREA POLE FIXTURE, P1 PERFORMANCE, FORWARD THROW DISTRIBUTION, FULL CUTOFF	POLE (20'-0" AFS)	0-10V	DSX1-LED-P1-27K-50CRI-TFTM	120V
EW1	LED 2700K 1400LM 12.51W	WALL MOUNTED LED AREA FIXTURE, P1 PERFORMANCE, FORWARD THROW DISTRIBUTION, HOUSESIDE SHIELD, FULL CUTOFF	WALL (12'-0" AFS)	0-10V	DSXW1-LED-P1-27K-50CRI-TFTM-HS	120V
EW2	LED 2700K 1200LM 10W	WALL MOUNTED LED AREA FIXTURE, P1 PERFORMANCE, VISUAL COMFORT FORWARD DISTRIBUTION, FULL CUTOFF	WALL (12'-0" AFS)	0-10V	WDGE2-LED-P1-27K-50CRI-VF	120V
LT-10	LED 2700K 1600LM 16.8W	12" DIAMETER LED DECORATIVE WALL SCONCE, COORDINATE BLACK FINISH WITH ARCHITECT	WALL	0-10V	BARN LIGHT ELECTRIC MARATHON NAUTICAL LED	120V
LT-11	LED 3000K 1500LM 13W	8" LED DECORATIVE WALL SCONCE, COORDINATE FINISH WITH ARCHITECT, FULL CUTOFF	WALL	TRAC /ELV	SONNEMAN MEZZA CUPOLA LED SCONCE 7472.74-WL	120V

NOTES: \*NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING  
\*VERIFY CEILING INSULATION W/GC AND NOTIFY ENGINEER OF ANY IC RATING CONFLICTS PRIOR TO ORDERING

- ### GENERAL NOTES
- ANY PROPOSED LIGHT FIXTURES ARE TO BE INSTALLED ON PRIVATE PROPERTY, ADJACENT TO THE PUBLIC RIGHT OF WAY. LIGHT FIXTURES SHALL BE ORIENTED IN SUCH A MANNER OR LIMITED IN LUMEN OUTPUT TO PREVENT GLARE PROBLEMS AND SHALL NOT EXCEED NATIONAL I.E.S. LIGHTING STANDARDS FOR DISABILITY GLARE.
  - ALL FIXTURES SHALL BE FULL CUT-OFF, DARK SKY COMPLIANT. RE: EXTERIOR LUMINAIRE SCHEDULE AND ATTACHED CUTSHEETS FOR ADDITIONAL INFORMATION.
  - ALL EXTERIOR LIGHTING FIXTURES TO BE CONTROLLED VIA TIMECLOCK AND/OR PHOTO SENSORS. RE: ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
  - REFER TO ATTACHED COMCHECK COMPLIANCE DOCUMENTATION FOR ALLOWED/INSTALLED WATTAGE OF PROPOSED EXTERIOR LIGHTING FIXTURES.
  - VERIFY POLE HEIGHT REQUIRED AT EACH LOCATION WITH BASE HEIGHT AND SURROUNDING GRADE. ELEVATION PROVIDED IN LUMINAIRE SCHEDULE IS HEIGHT OF FIXTURE TO ADJACENT GRADE.



**SITE PHOTOMETRIC**  
1/8" = 1'-0"

APPROVAL STAMPS:

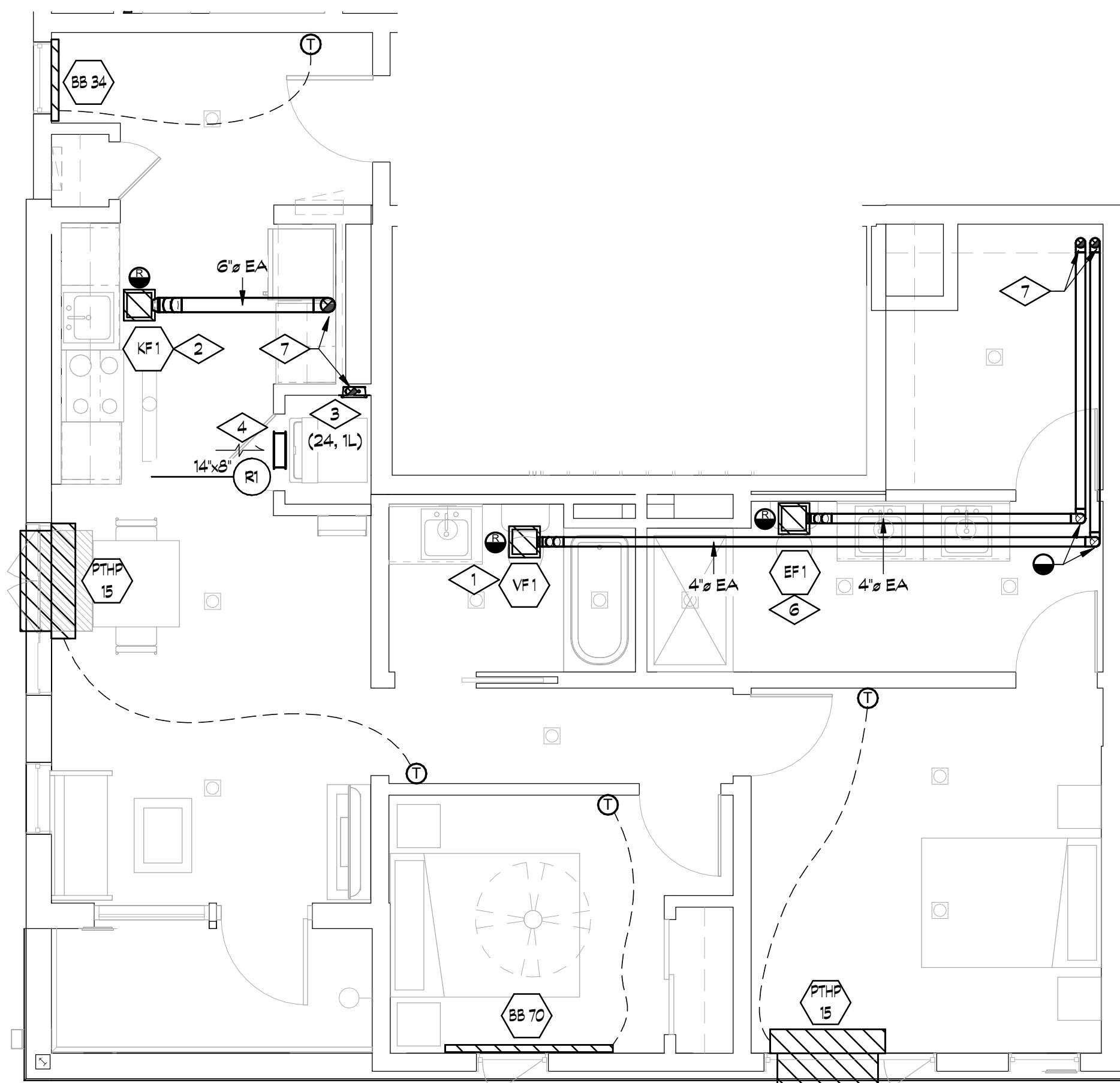
No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T: 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T: 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T: 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T: 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T: 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T: 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487		
DRAWING TITLE		
<b>SITE PHOTOMETRIC</b>		
SEAL	DATE:	
	03.13.2026	
	DRAWN BY:	Author
	CHECKED BY:	MV
	PROJECT NO:	25135
DRAWING NO:		
<b>MEP0100</b>		



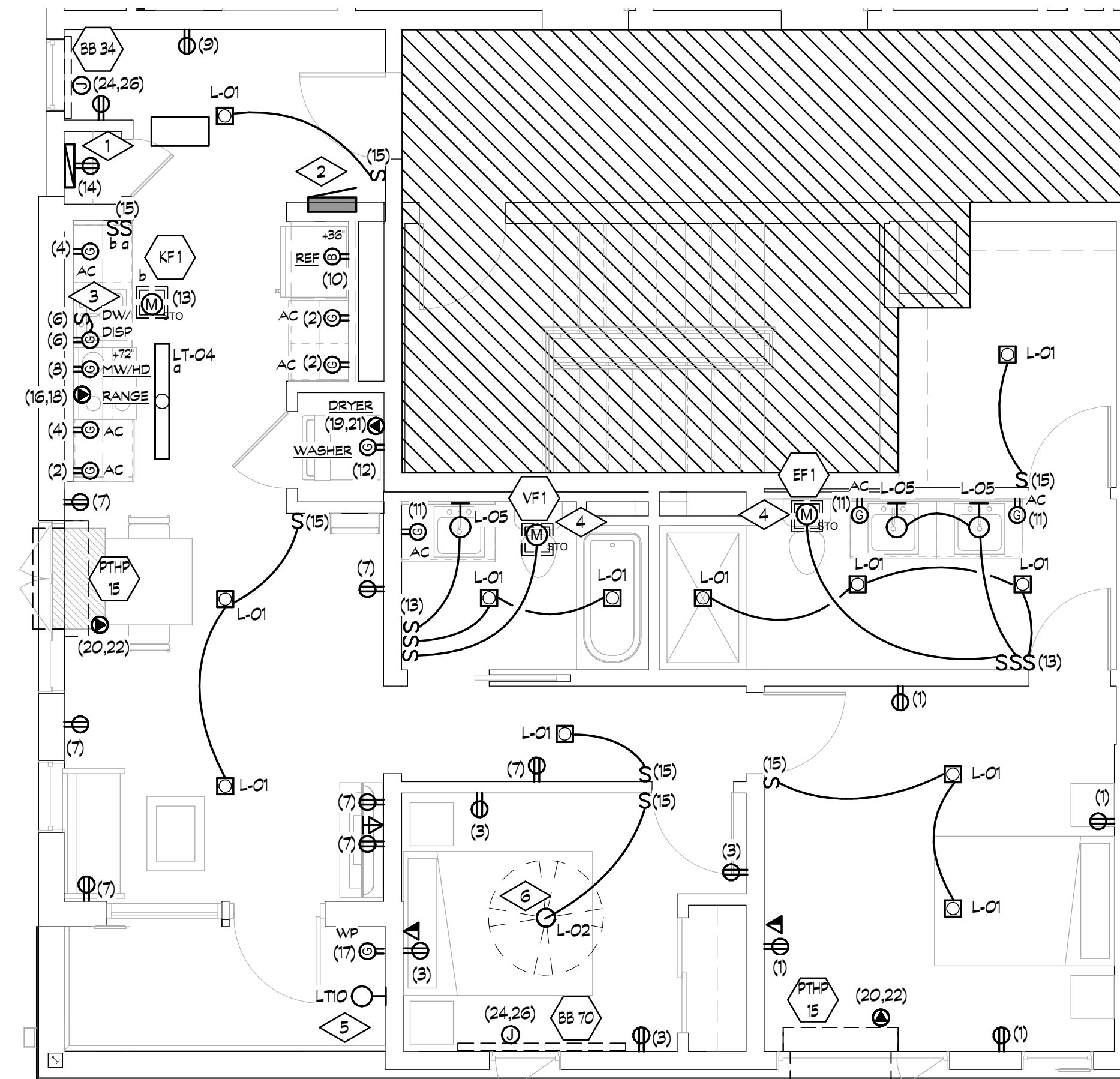




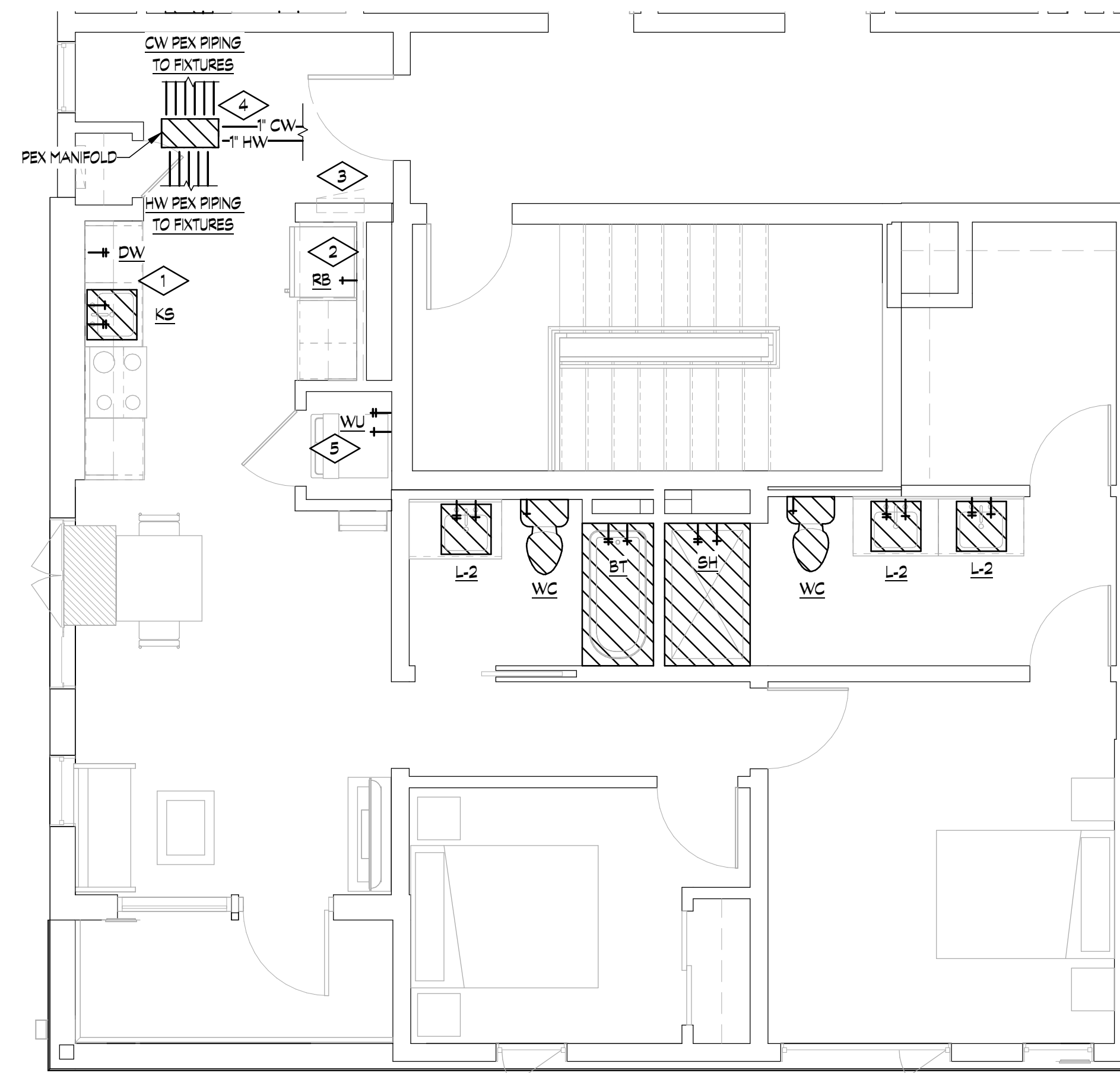
3/13/2026 8:48:11 AM



2 HVAC PLAN - TYPE 1B  
1/4" = 1'-0"



3 ELECTRICAL PLAN - TYPE 1B  
1/4" = 1'-0"



1 PLUMBING PLAN - TYPE 1B  
1/4" = 1'-0"

APPROVAL STAMPS:

No. Date Description

SUBMISSIONS & REVISIONS

OWNER

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayreigler.com

ARCHITECT

**K A S A**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION

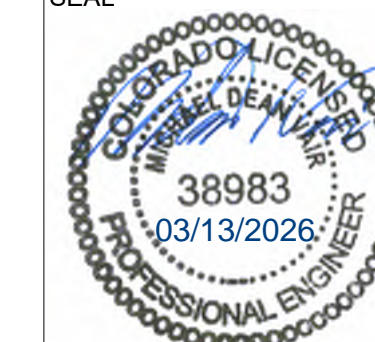
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

**MEP UNIT PLANS -  
TYPE 1B**

SEAL



DATE:

03.13.2026

DRAWN BY:

BEC

CHECKED BY:

MV

PROJECT NO:

25135

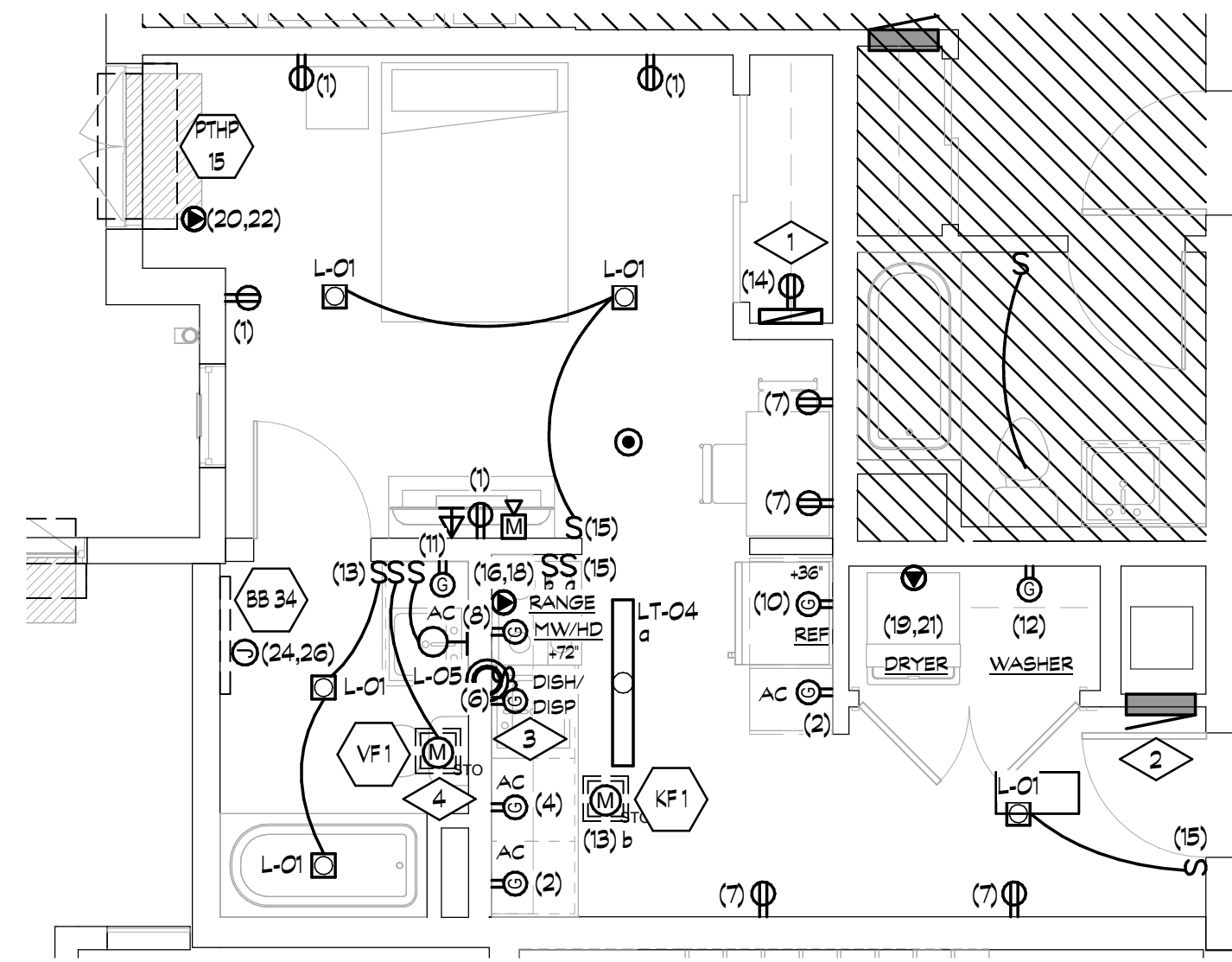
DRAWING NO:

**MEP0402**

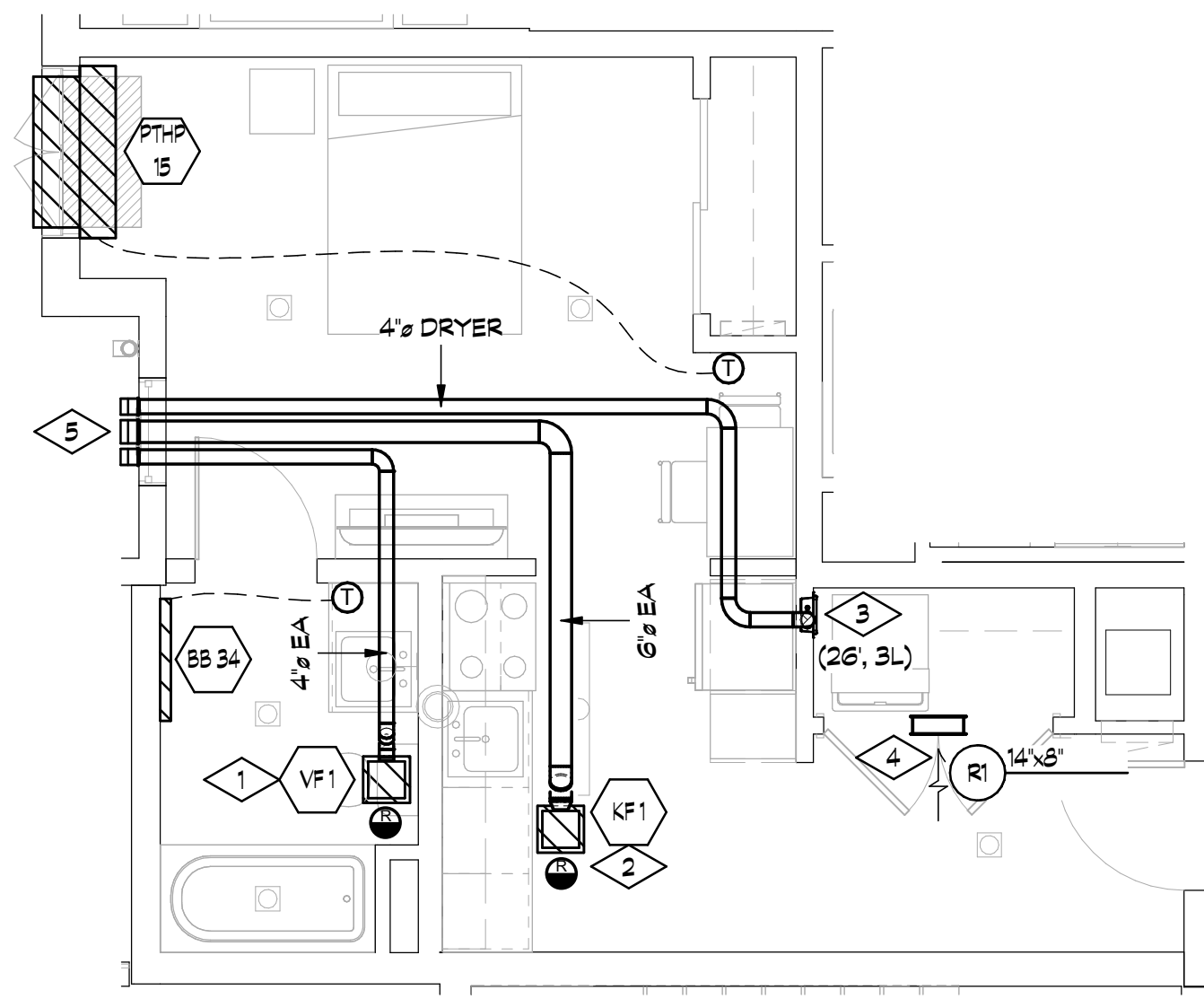
COPYRIGHT 2019



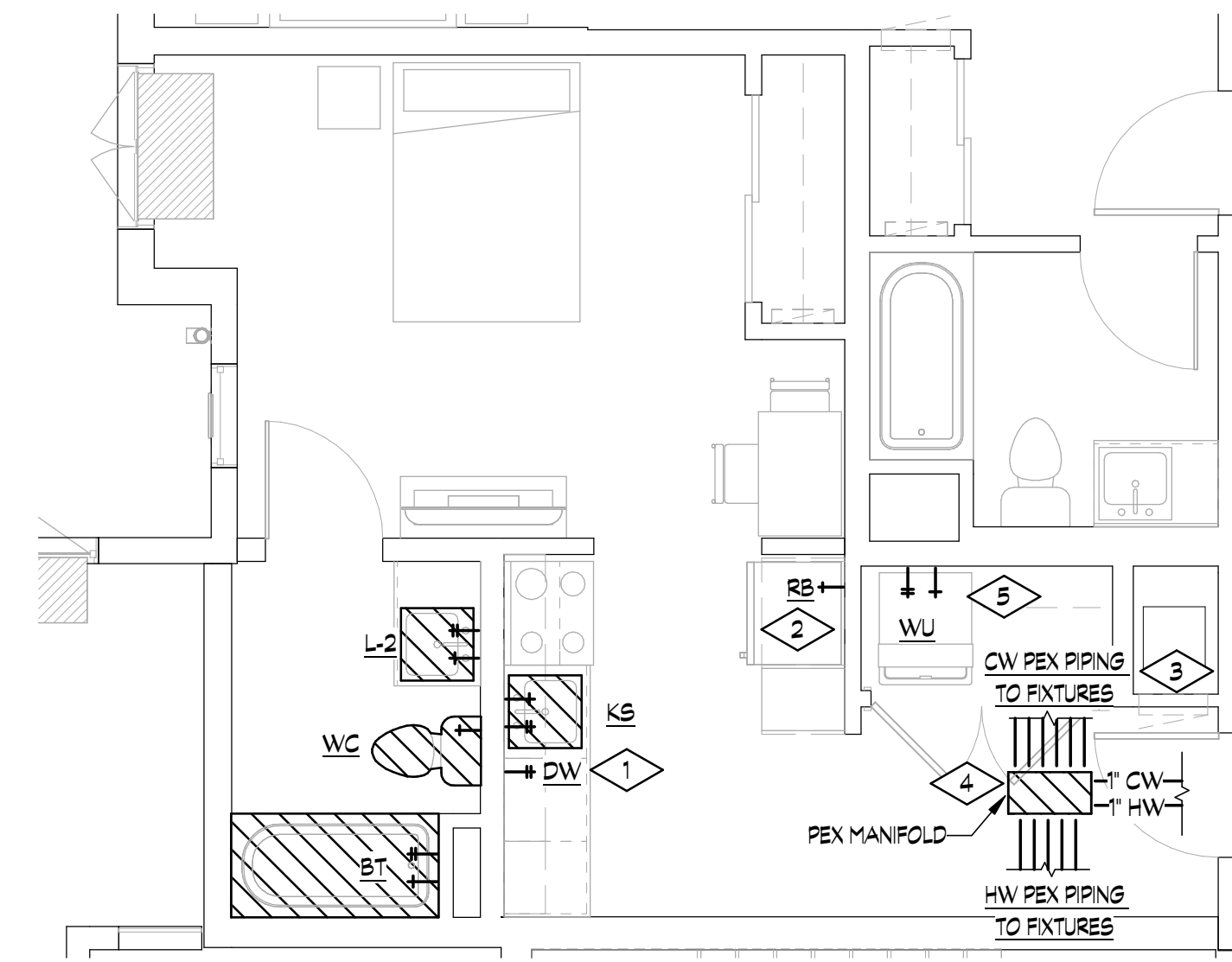




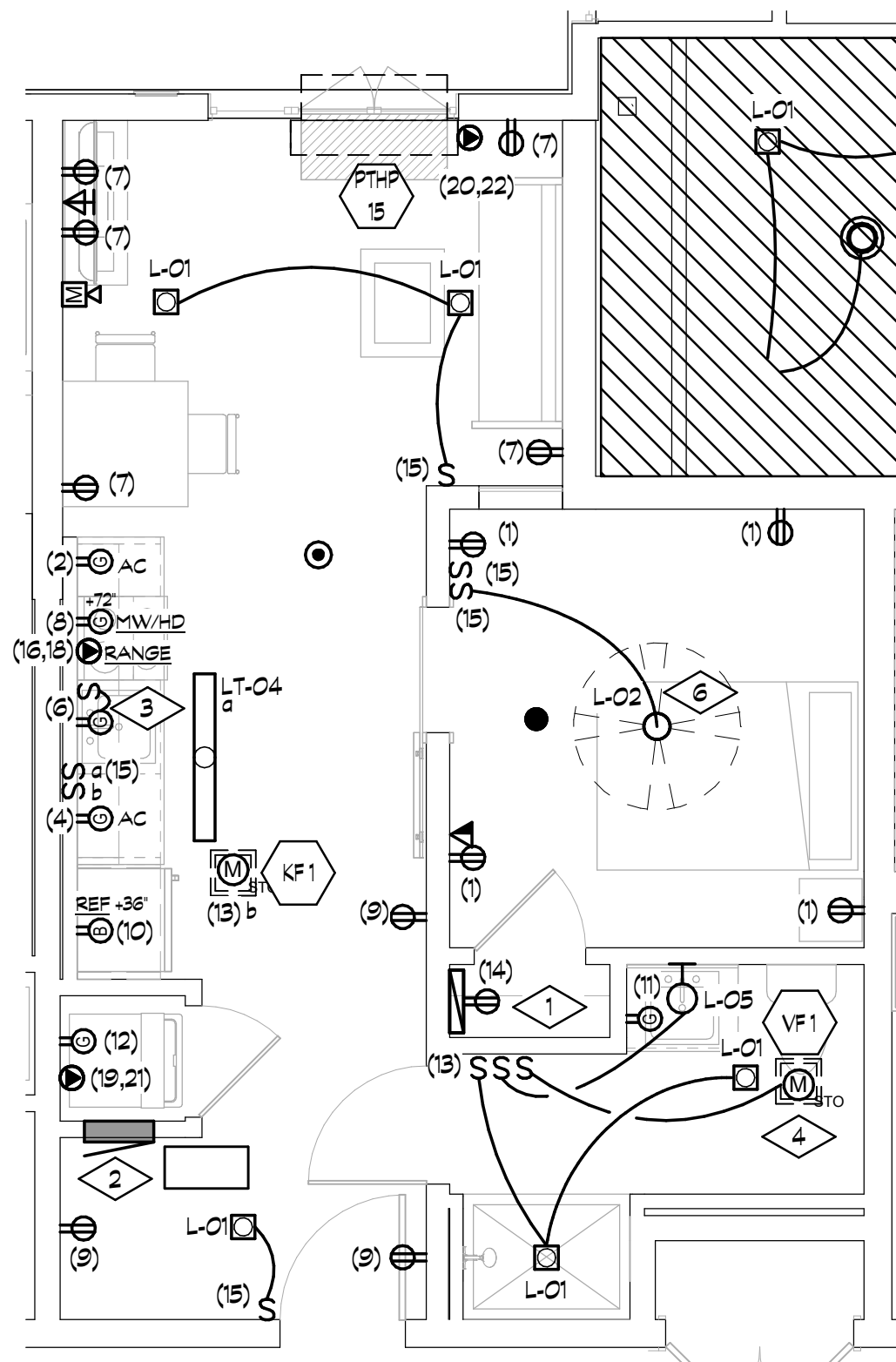
6 ELECTRICAL PLAN - TYPE 5  
1/4" = 1'-0"



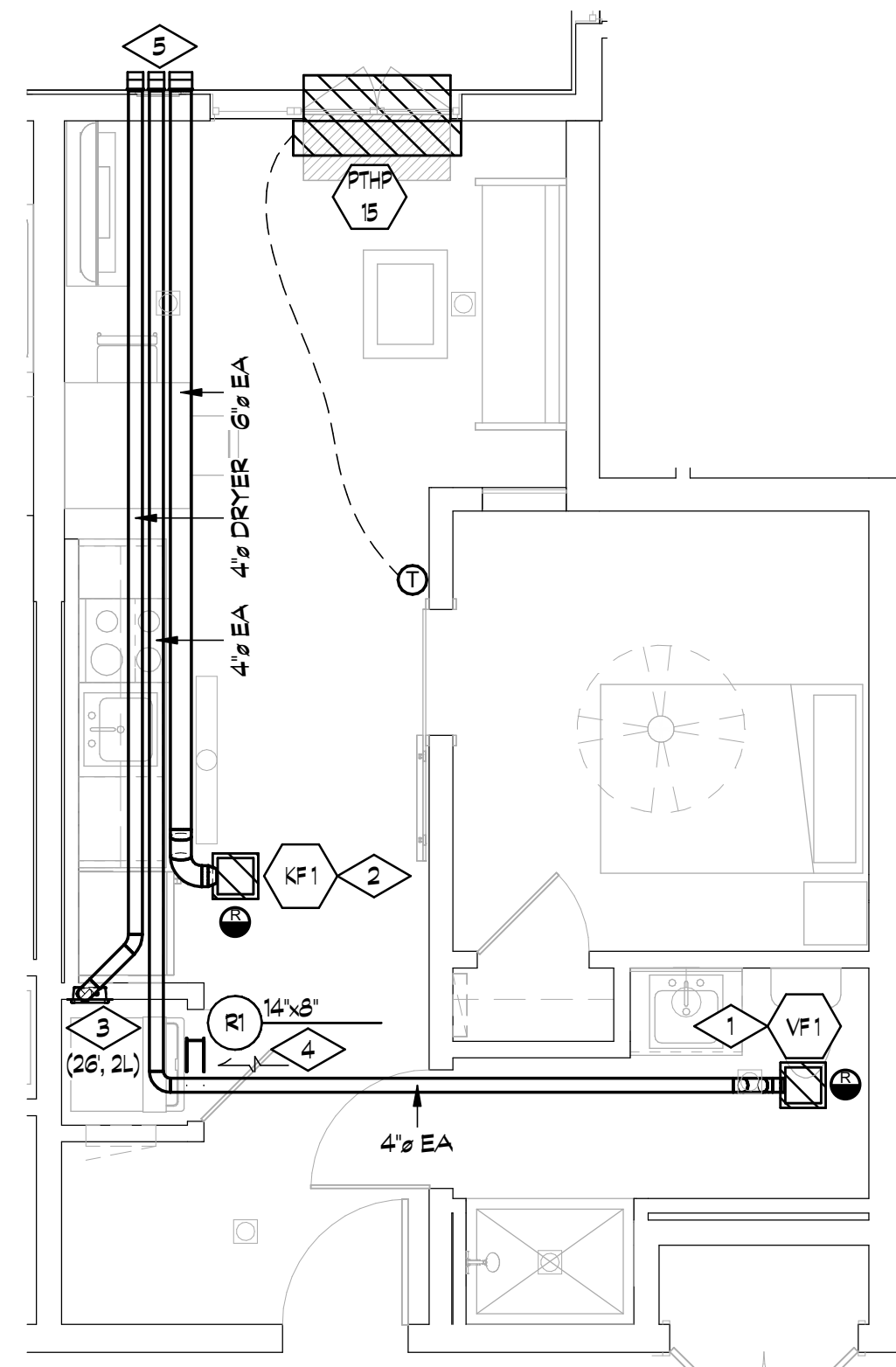
5 HVAC PLAN - TYPE 5  
1/4" = 1'-0"



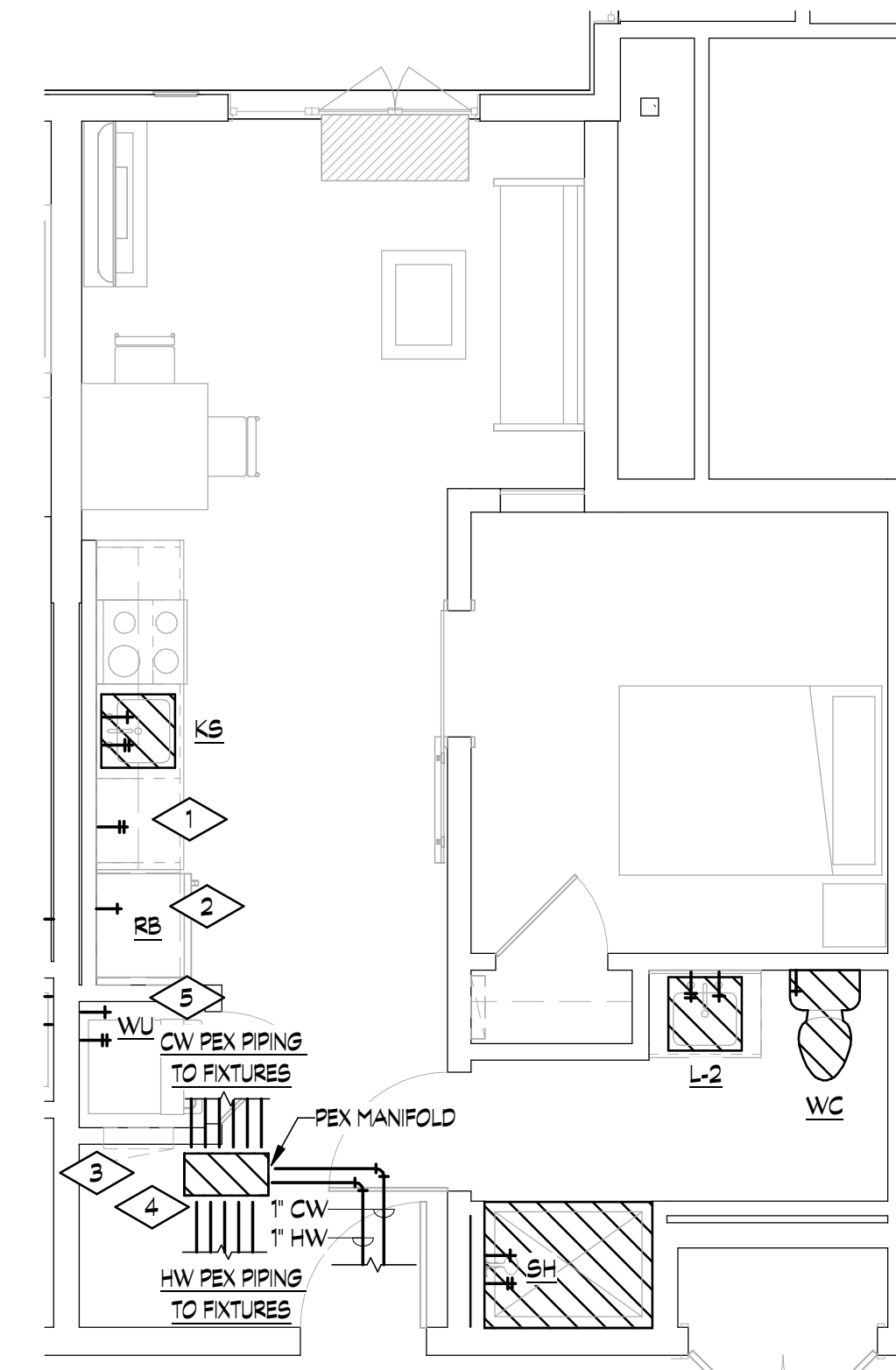
4 PLUMBING PLAN - TYPE 5  
1/4" = 1'-0"



3 ELECTRICAL PLAN - TYPE 4  
1/4" = 1'-0"



2 HVAC PLAN - TYPE 4  
1/4" = 1'-0"



1 PLUMBING PLAN - TYPE 4  
1/4" = 1'-0"

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT  
**K A S A**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

LANDSCAPE ARCHITECT


STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

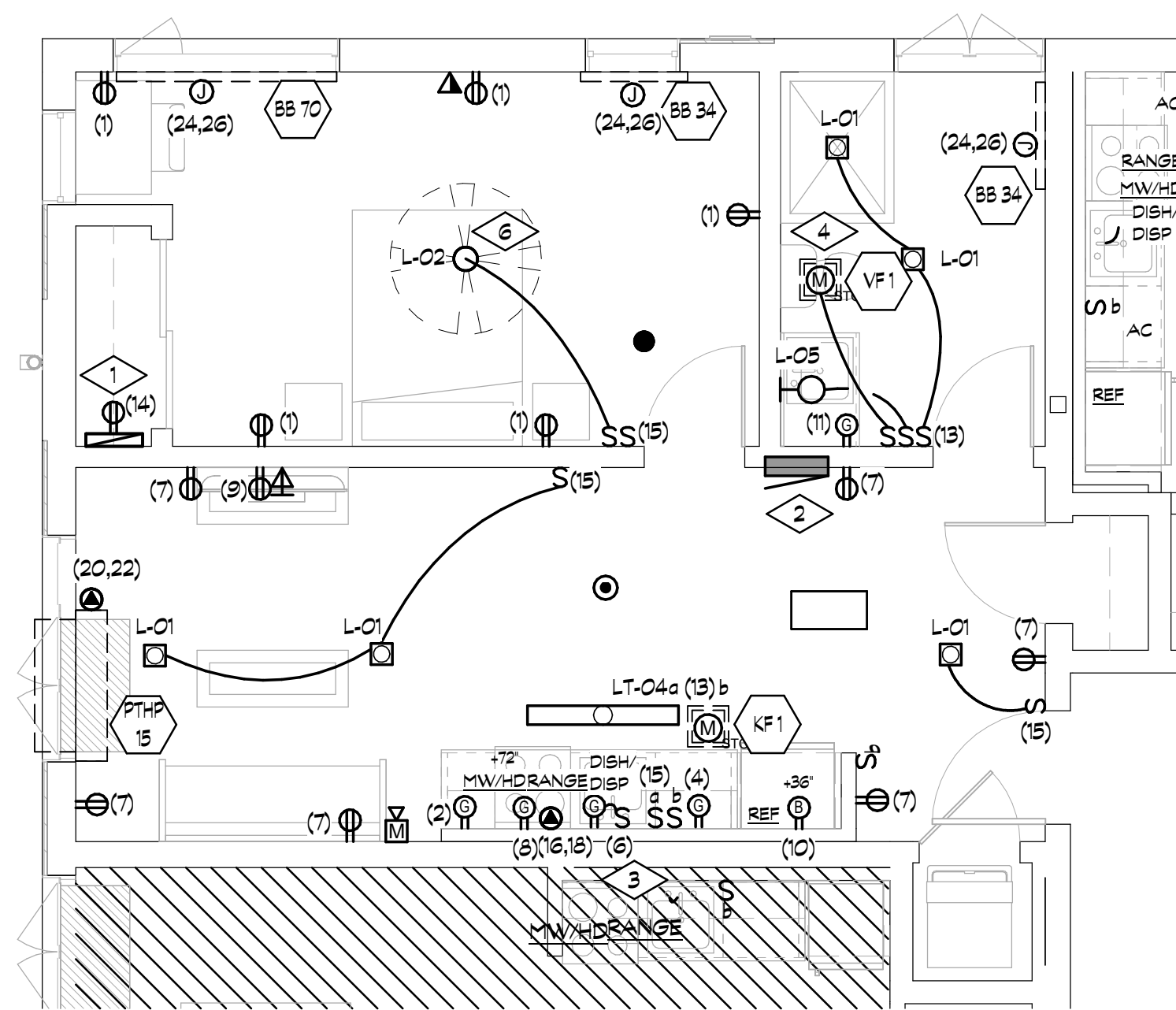
INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

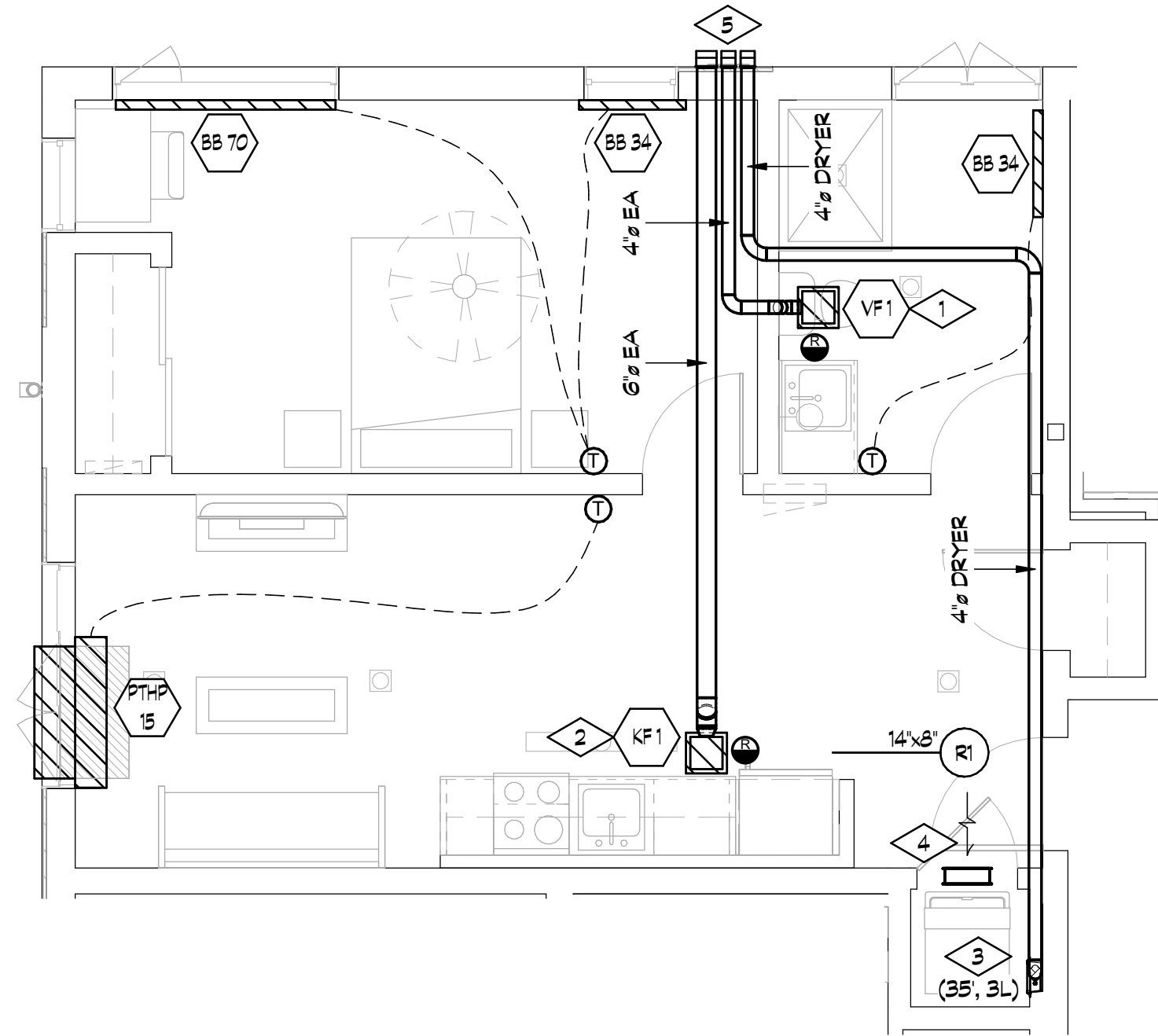
DRAWING TITLE  
**MEP UNIT PLANS - TYPE 4 & 5**

SEAL:  DATE: 03.13.2026  
DRAWN BY: BEC  
CHECKED BY: MV  
PROJECT NO: 25135

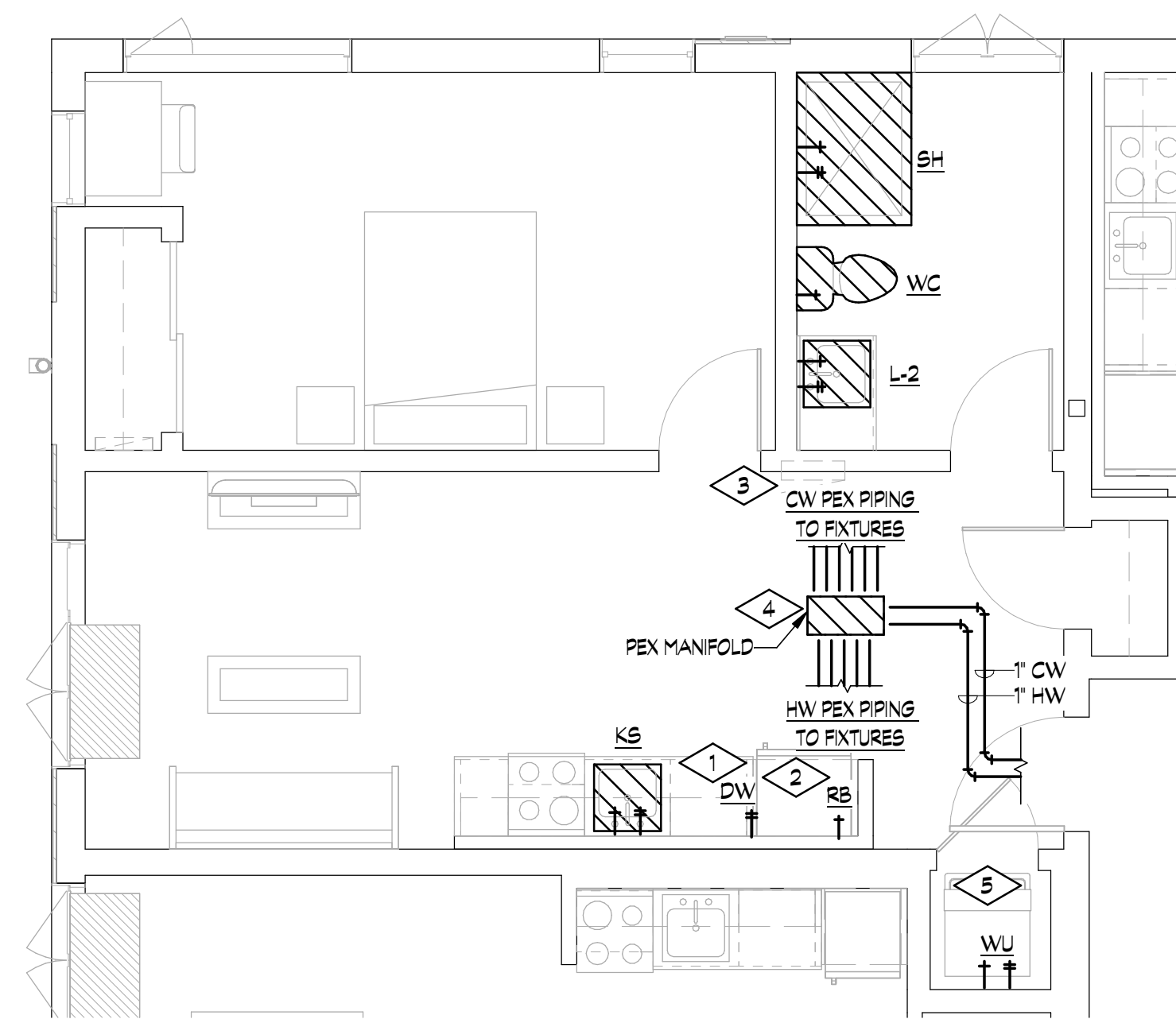
DRAWING NO:  
**MEP0405**



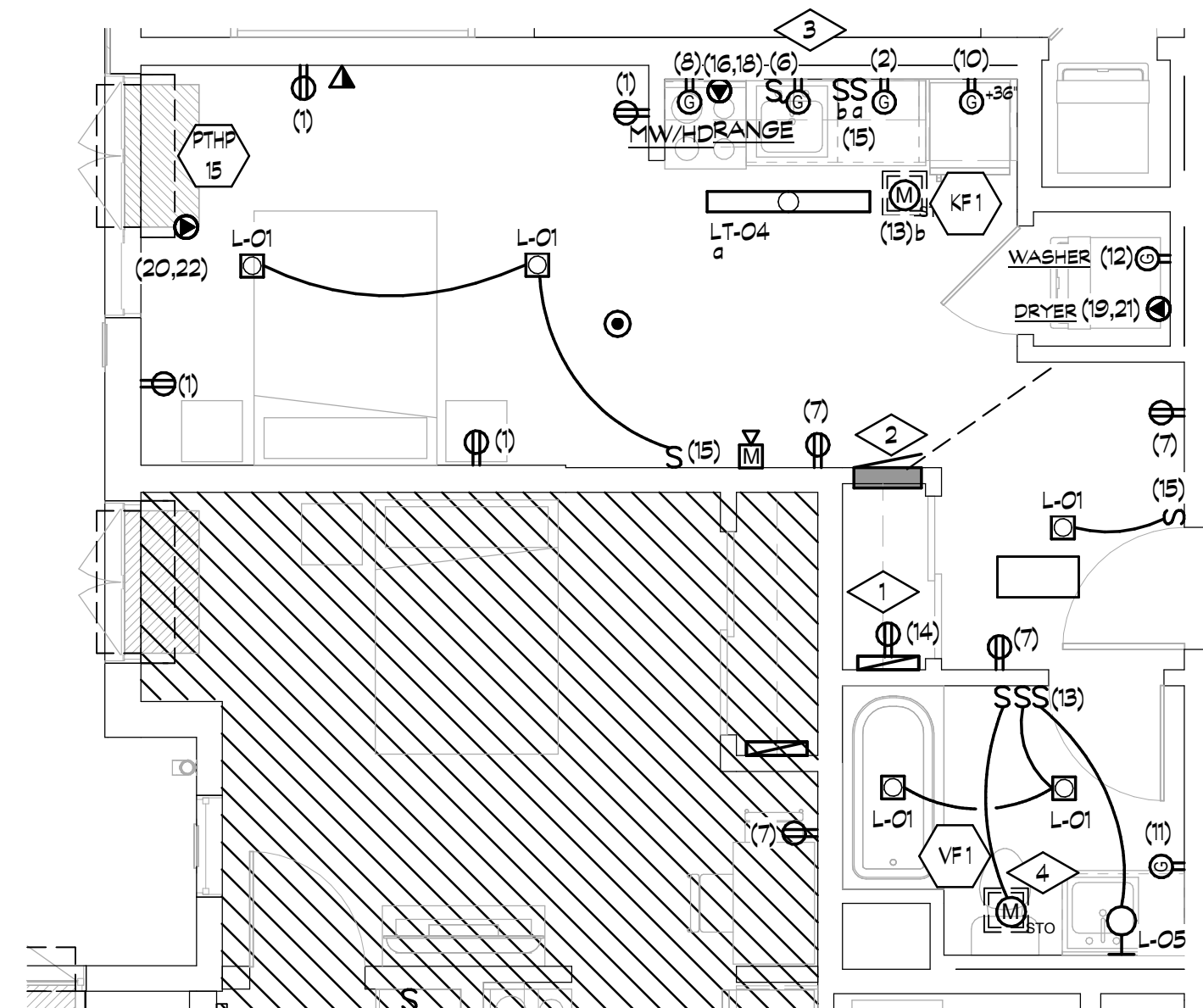
6 ELECTRICAL PLAN - TYPE 7  
1/4" = 1'-0"



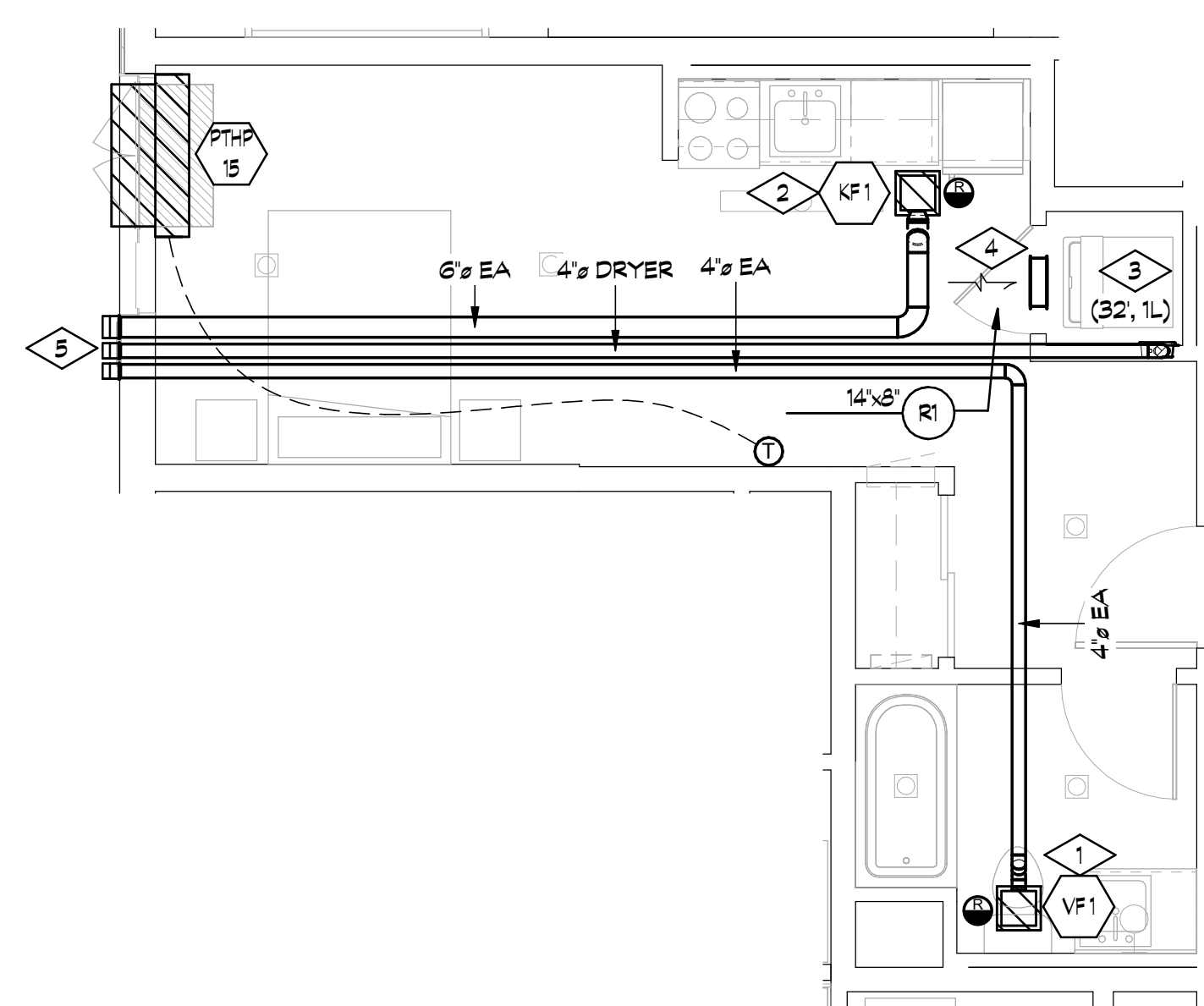
5 HVAC PLAN - TYPE 7  
1/4" = 1'-0"



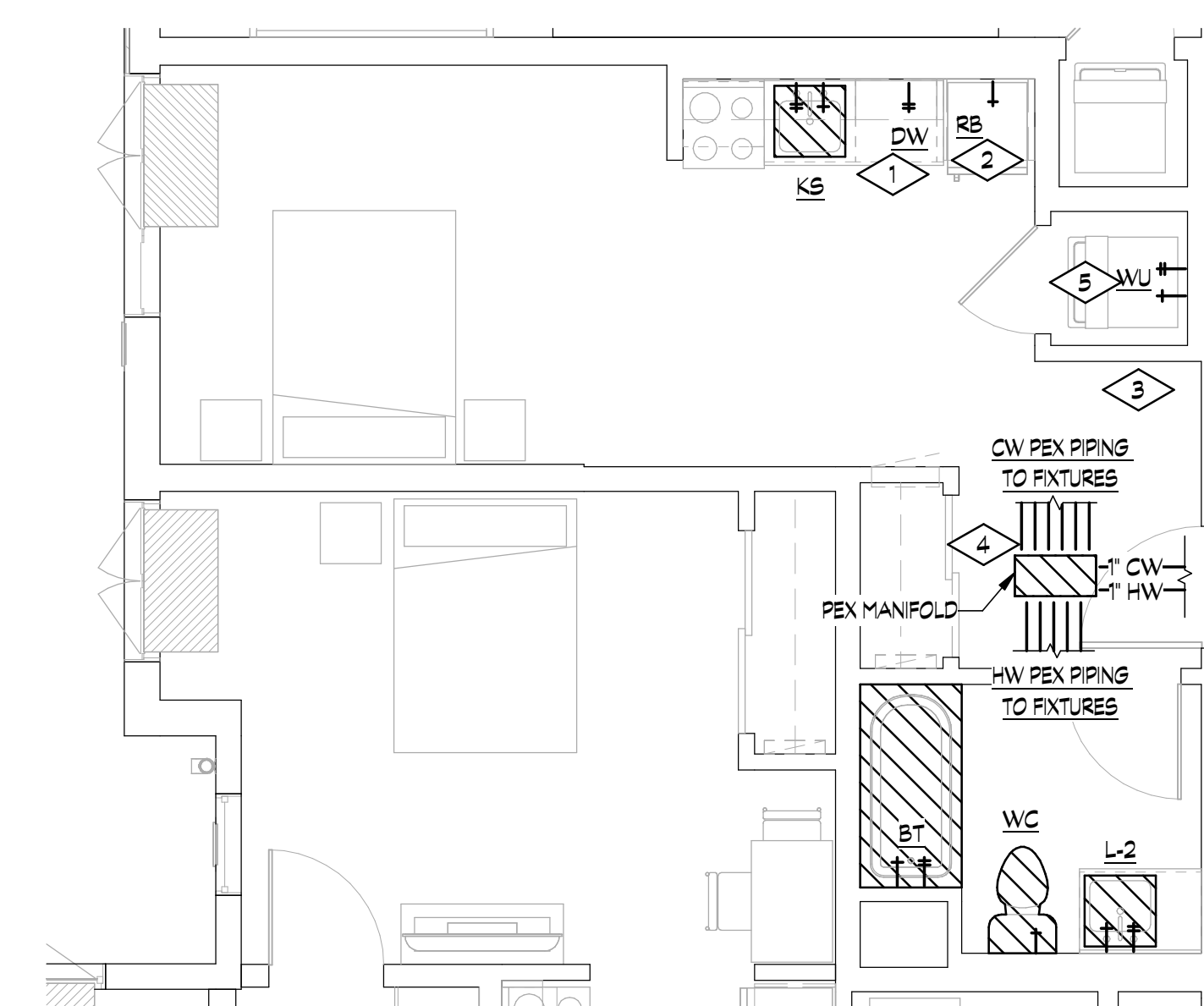
4 PLUMBING PLAN - TYPE 7  
1/4" = 1'-0"



3 ELECTRICAL PLAN - TYPE 6  
1/4" = 1'-0"



2 HVAC PLAN - TYPE 6  
1/4" = 1'-0"



1 PLUMBING PLAN - TYPE 6  
1/4" = 1'-0"

APPROVAL STAMPS:

NO. DATE DESCRIPTION

SUBMISSIONS & REVISIONS

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

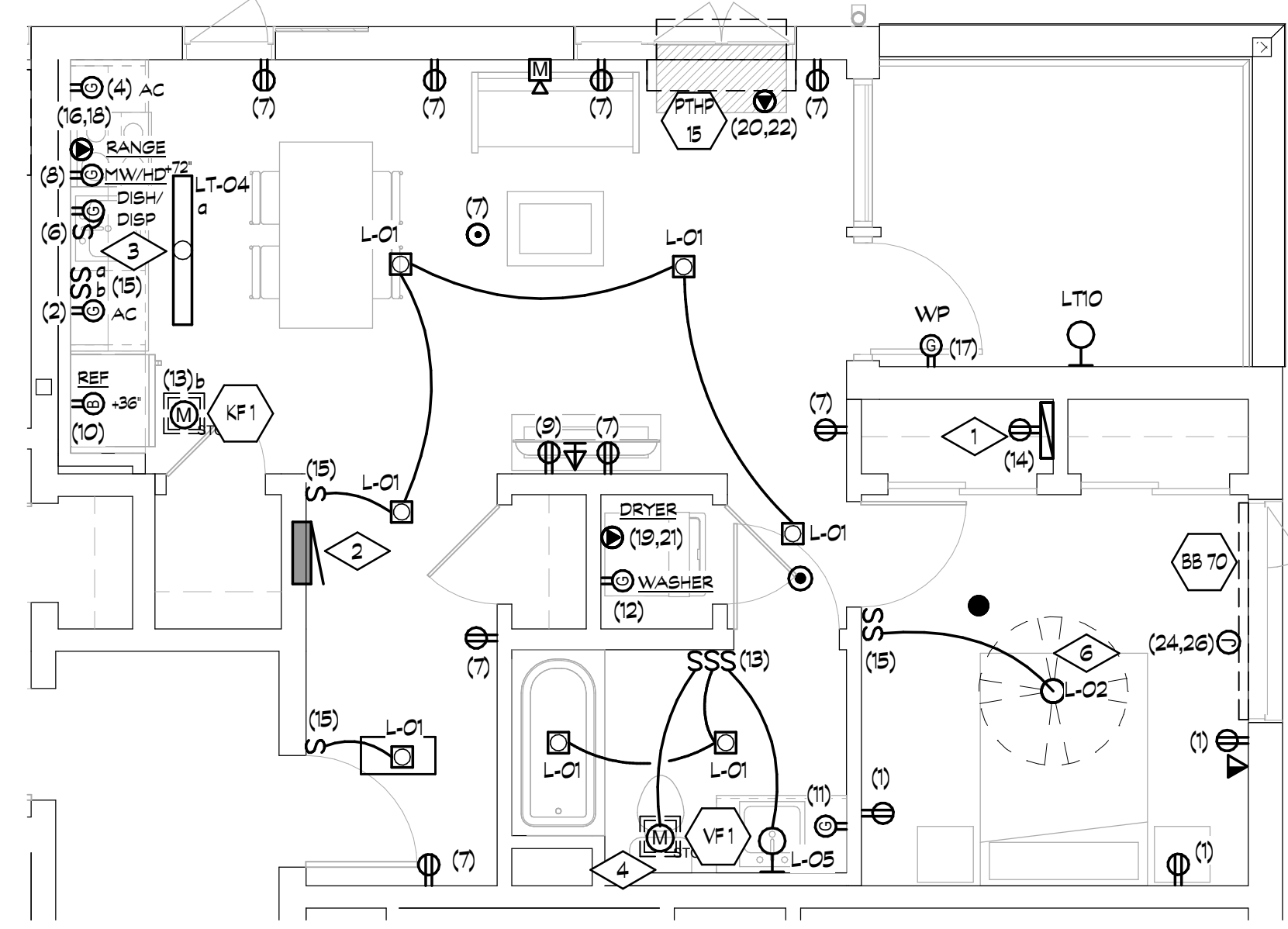
INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

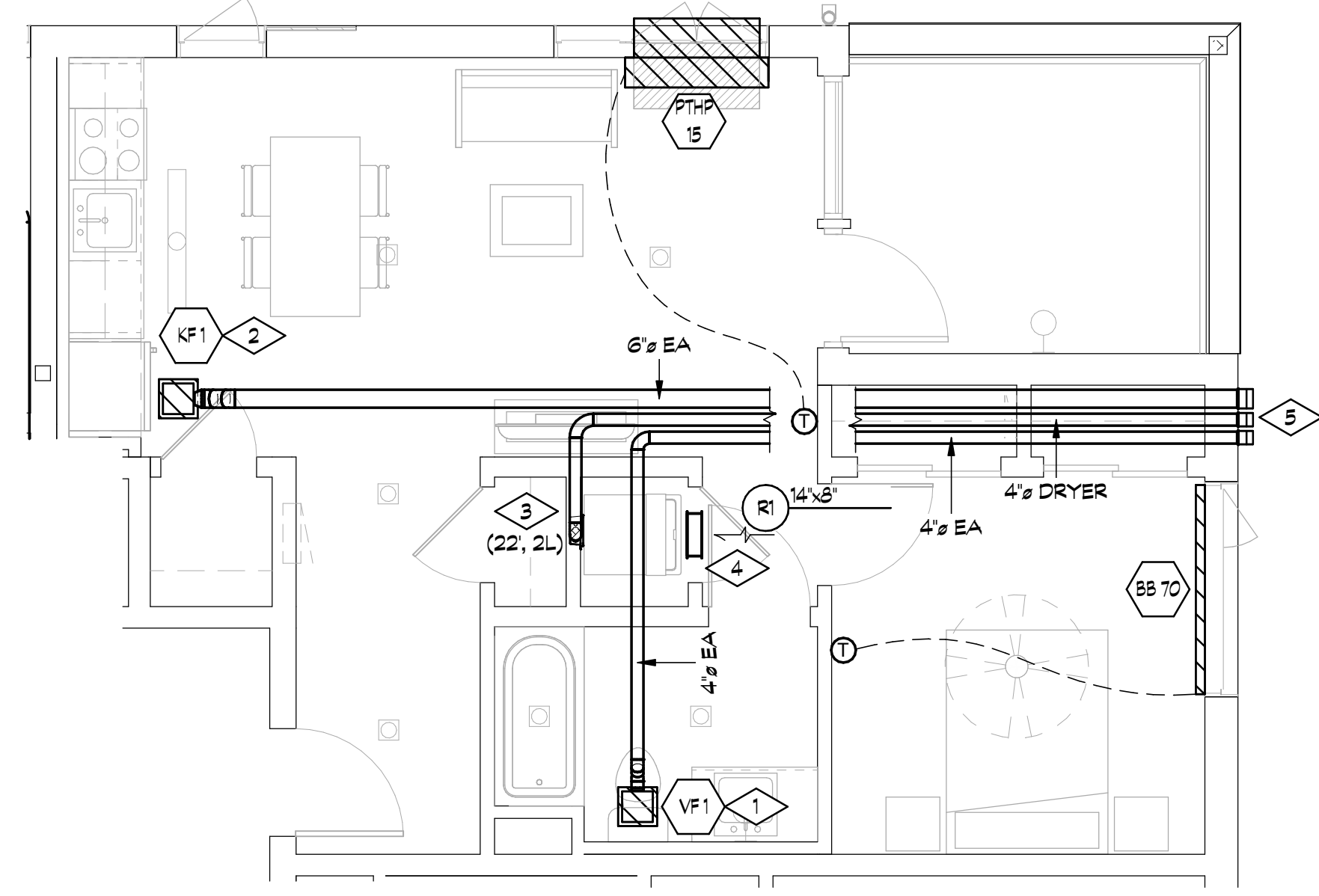
DRAWING TITLE  
**MEP UNIT PLANS -  
TYPE 6 & 7**

SEAL: DATE: 03.13.2026  
DRAWN BY: BEC  
CHECKED BY: MV  
PROJECT NO: 25135

DRAWING NO:  
**MEP0406**

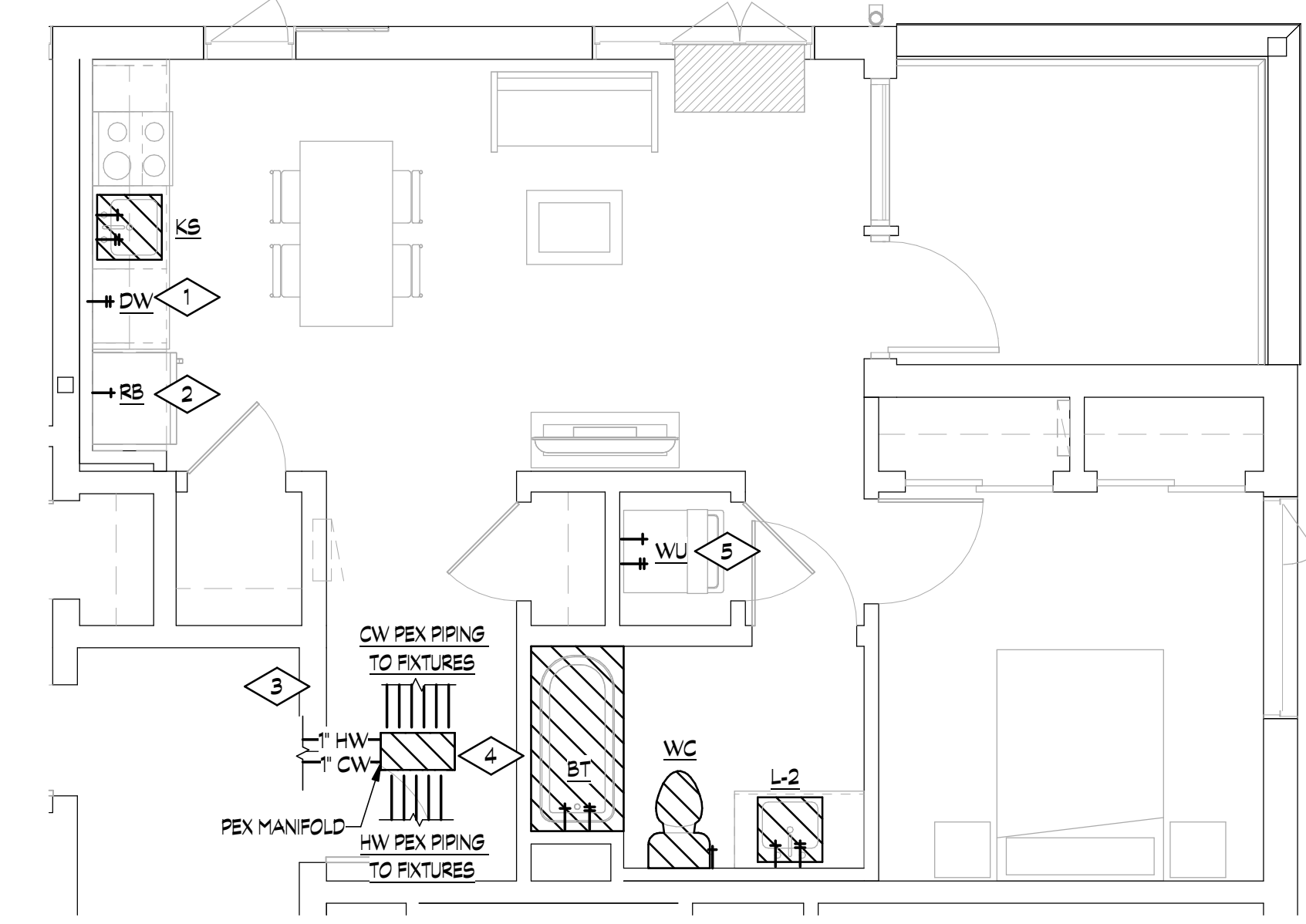


**6 ELECTRICAL PLAN - TYPE 8B**  
1/4" = 1'-0"

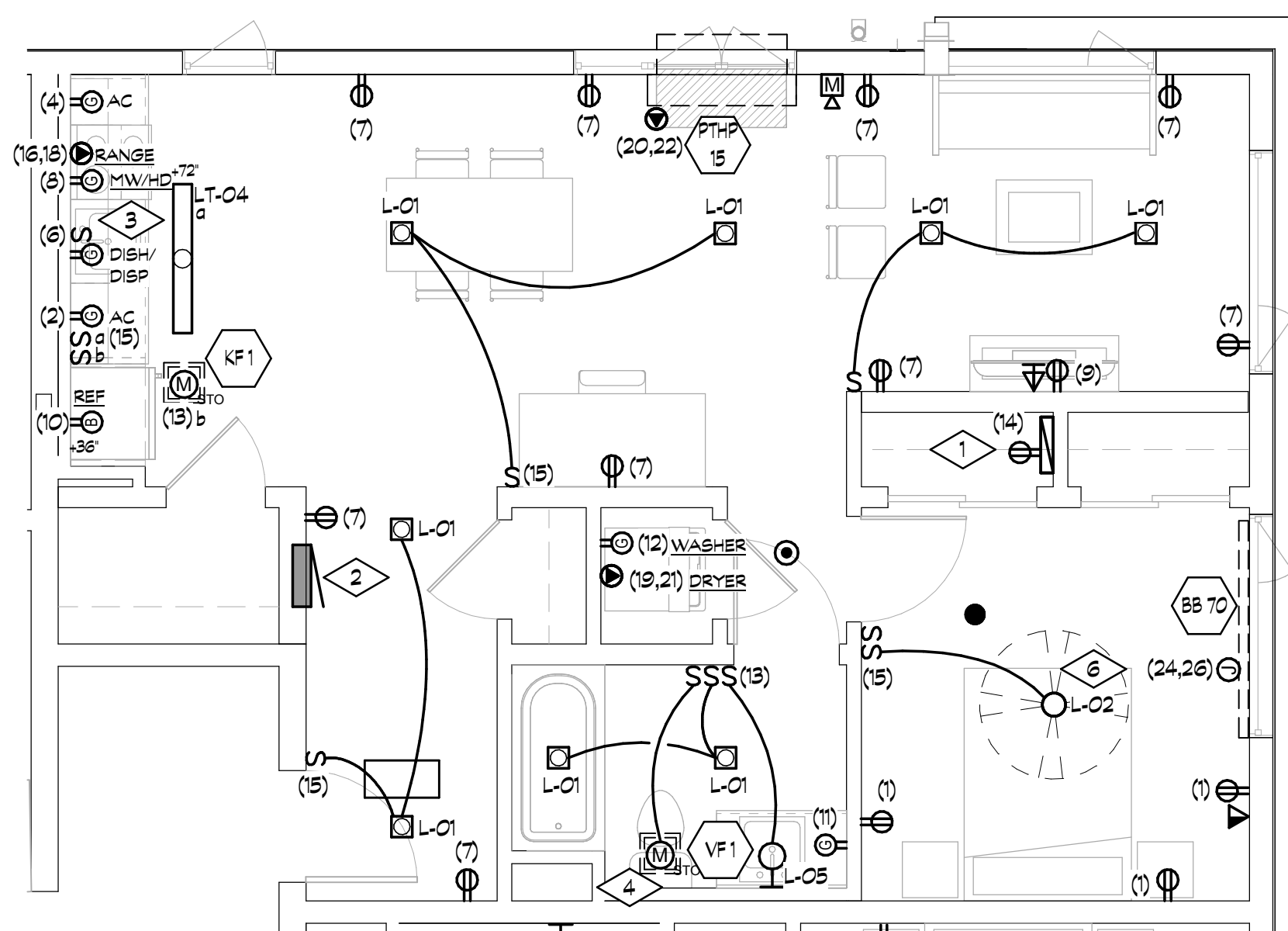


**5 HVAC PLAN - TYPE 8B**  
1/4" = 1'-0"

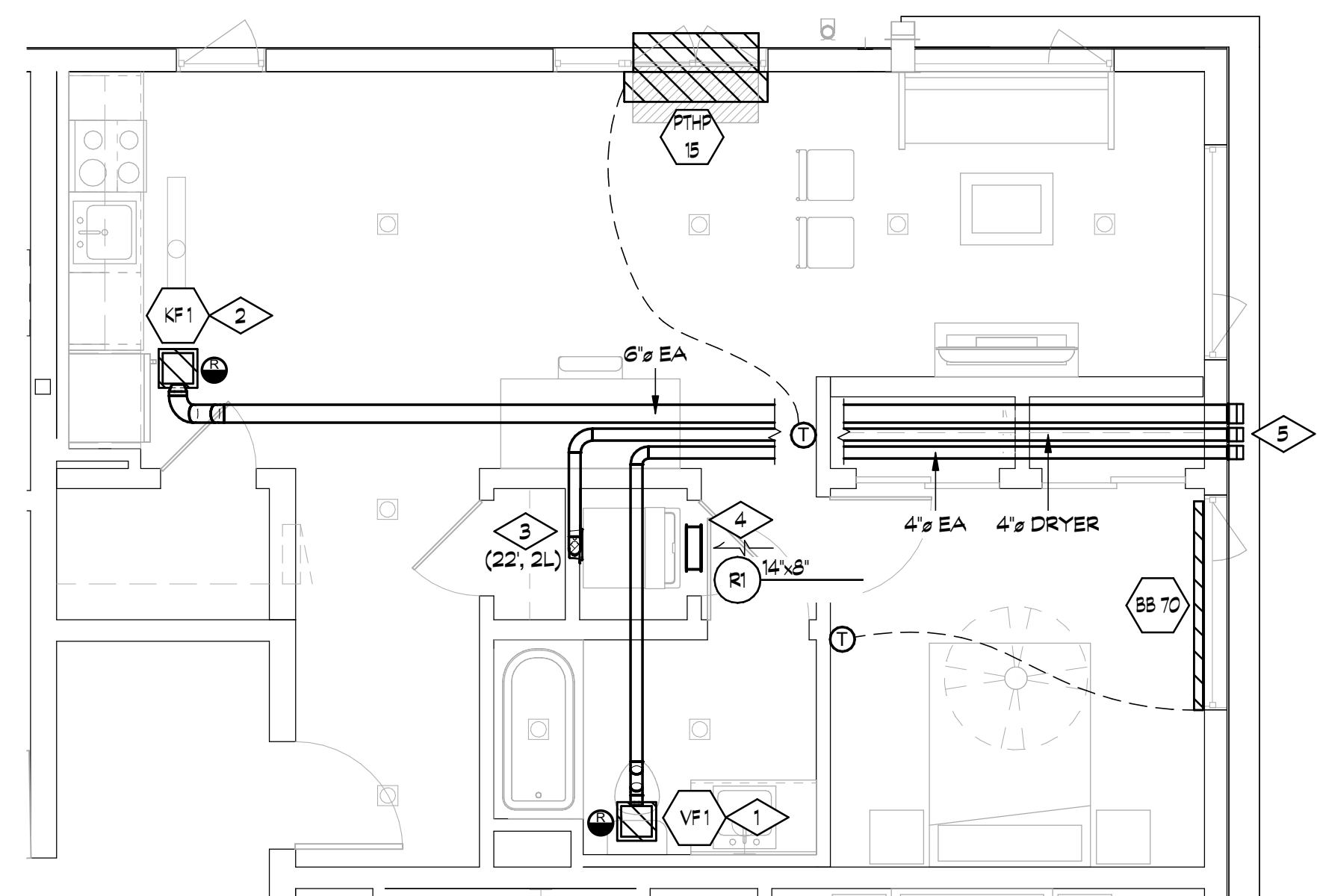
NOTE: SEE VIEW #1 ON SHEET  
MEP0413 FOR 5TH LEVEL PLAN



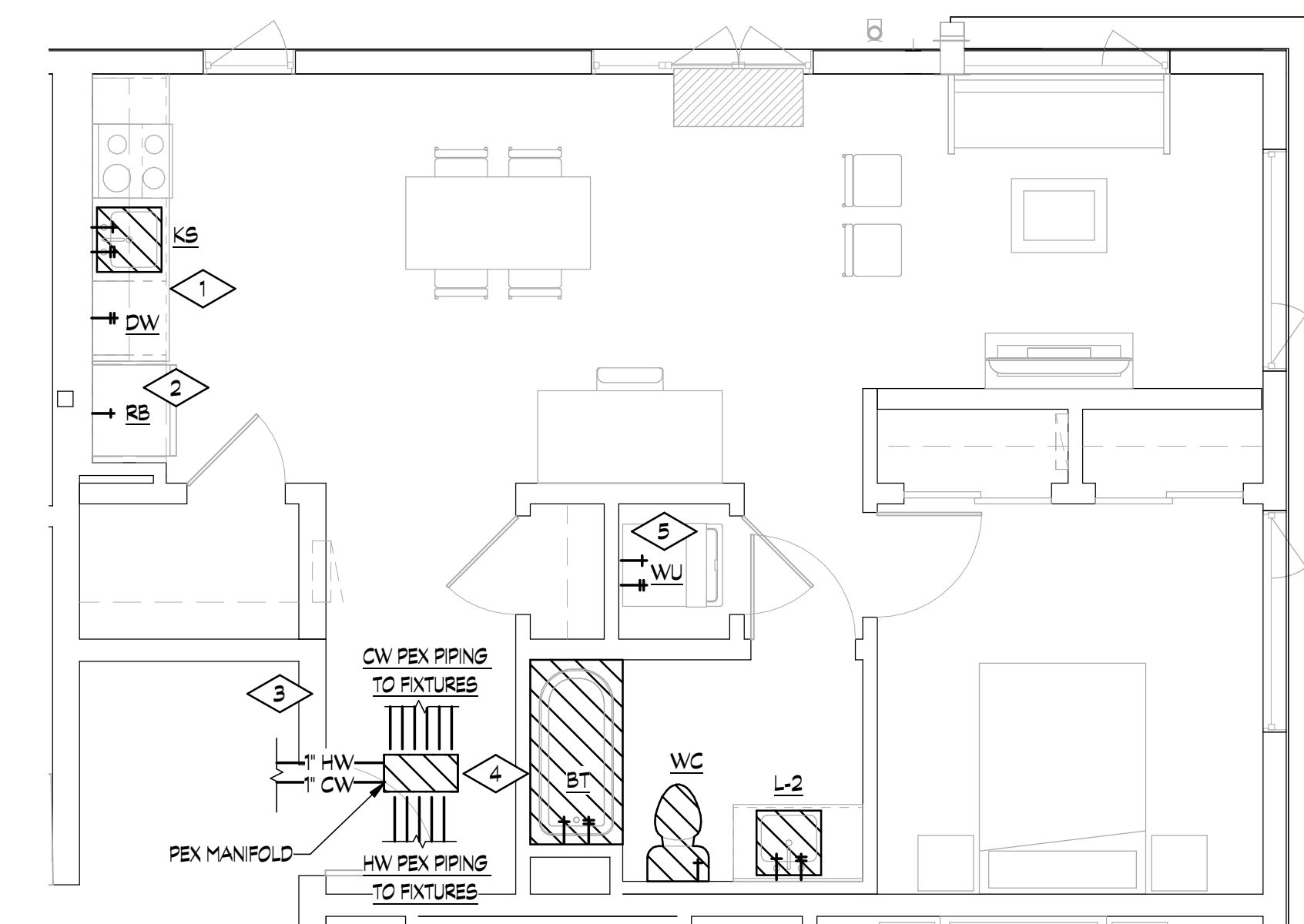
**4 PLUMBING PLAN - TYPE 8B**  
1/4" = 1'-0"



**3 ELECTRICAL PLAN - TYPE 8A**  
1/4" = 1'-0"

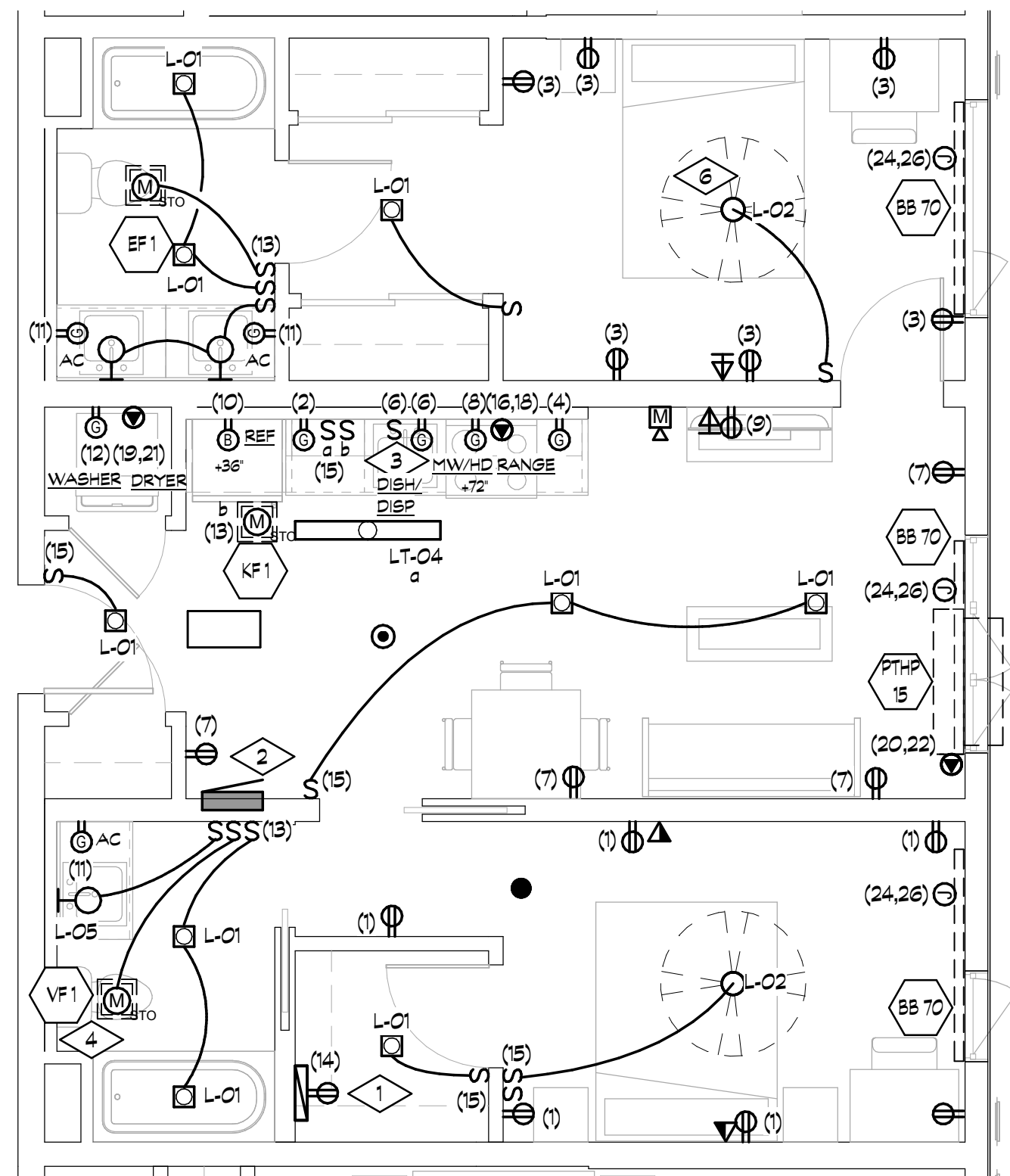


**2 HVAC PLAN - TYPE 8A**  
1/4" = 1'-0"

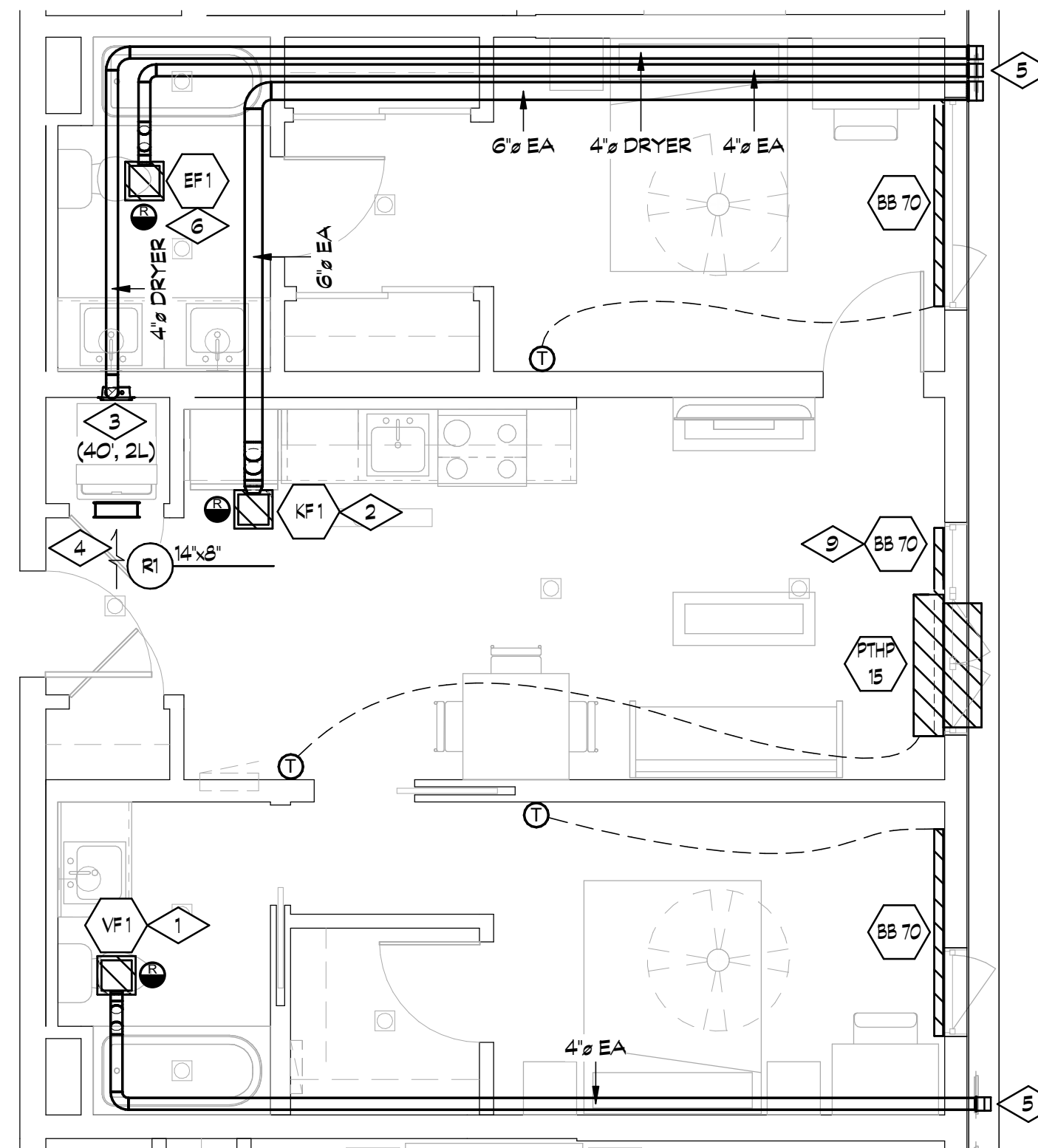


**1 PLUMBING PLAN - TYPE 8A**  
1/4" = 1'-0"

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
<b>OWNER</b>		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
<b>ARCHITECT</b>		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T: 312.636.3248 / 312.636.4252 www.kasa-arch.com		
<b>GENERAL CONTRACTOR</b>		
<b>DENEUVE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T: 303.444.6633		
<b>CIVIL ENGINEER</b>		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T: 970.871.9434		
<b>LANDSCAPE ARCHITECT</b>		
<b>STRUCTURAL ENGINEER</b>		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T: 303.384.9910		
<b>M.E.P. ENGINEERS</b>		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T: 303.444.6038		
<b>INTERIOR DESIGNER:</b>		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T: 303.892.7062		
<b>PROJECT LOCATION</b>		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487 DRAWING TITLE		
<b>MEP UNIT PLANS - TYPE 8A &amp; 8B</b>		
<b>SEAL</b>		
<b>DATE:</b>		03.13.2026
<b>DRAWN BY:</b>		BEC
<b>CHECKED BY:</b>		MV
<b>PROJECT NO.:</b>		25135
<b>DRAWING NO.:</b>		
<b>MEP0407</b>		
<small>COPYRIGHT 2019</small>		

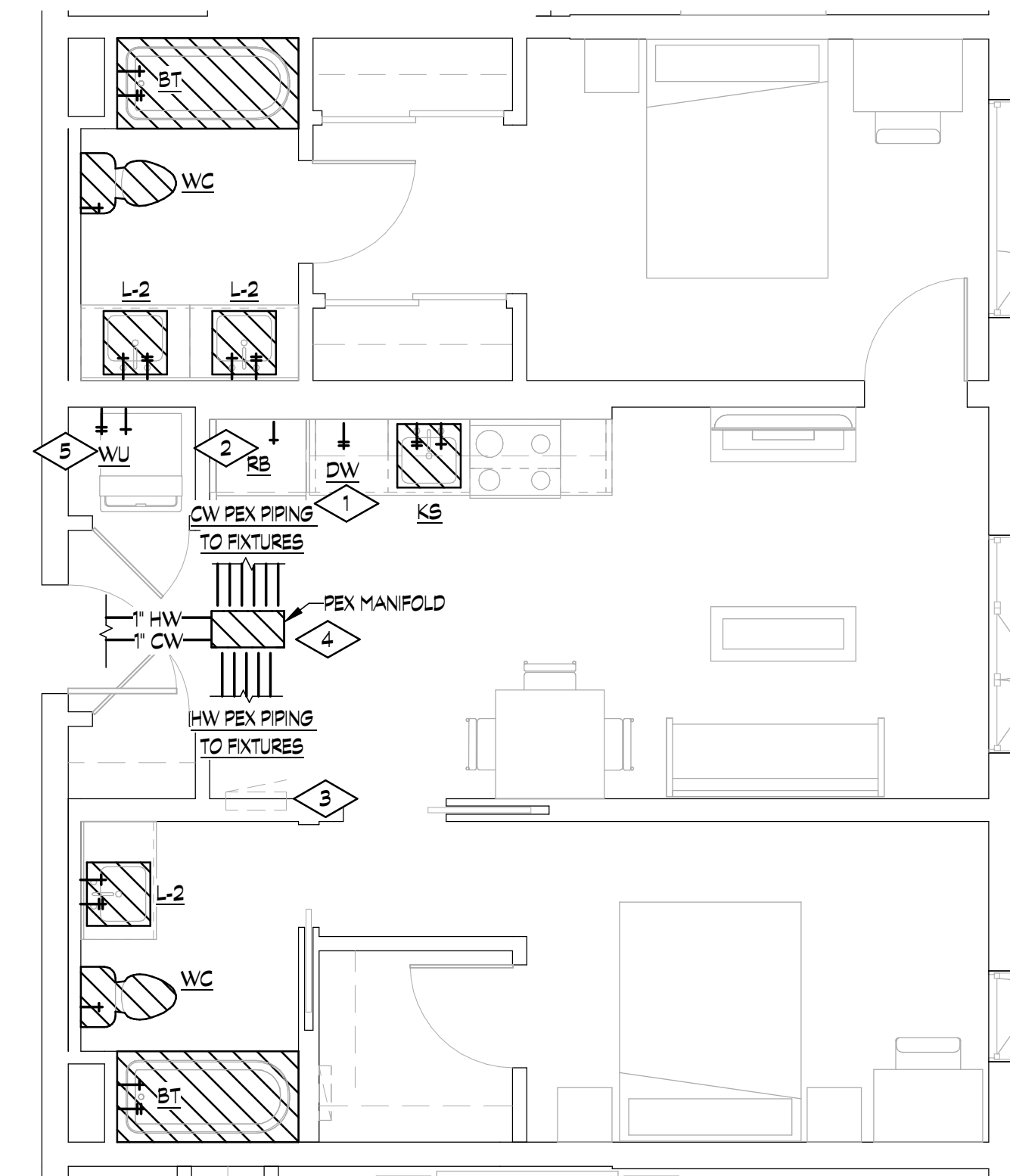


6 ELECTRICAL PLAN - TYPE 10  
1/4" = 1'-0"

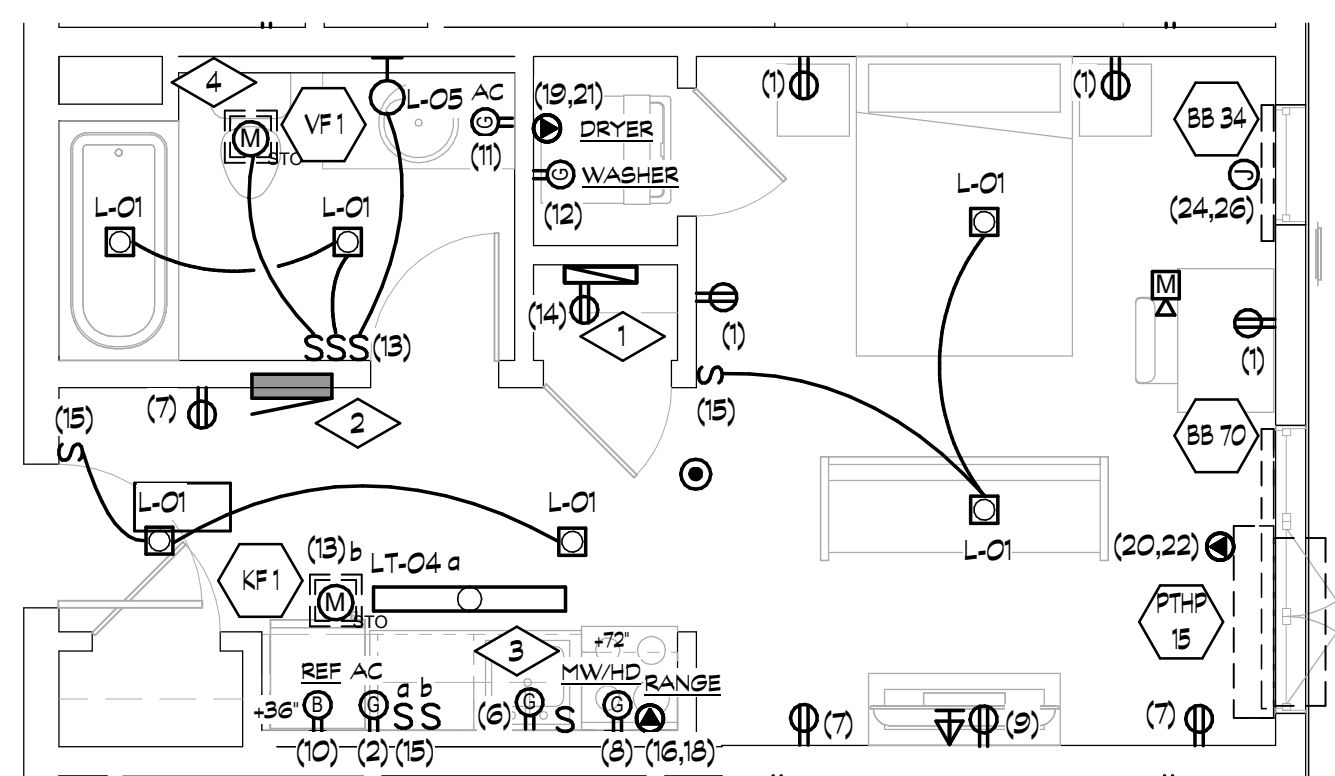


5 HVAC PLAN - TYPE 10  
1/4" = 1'-0"

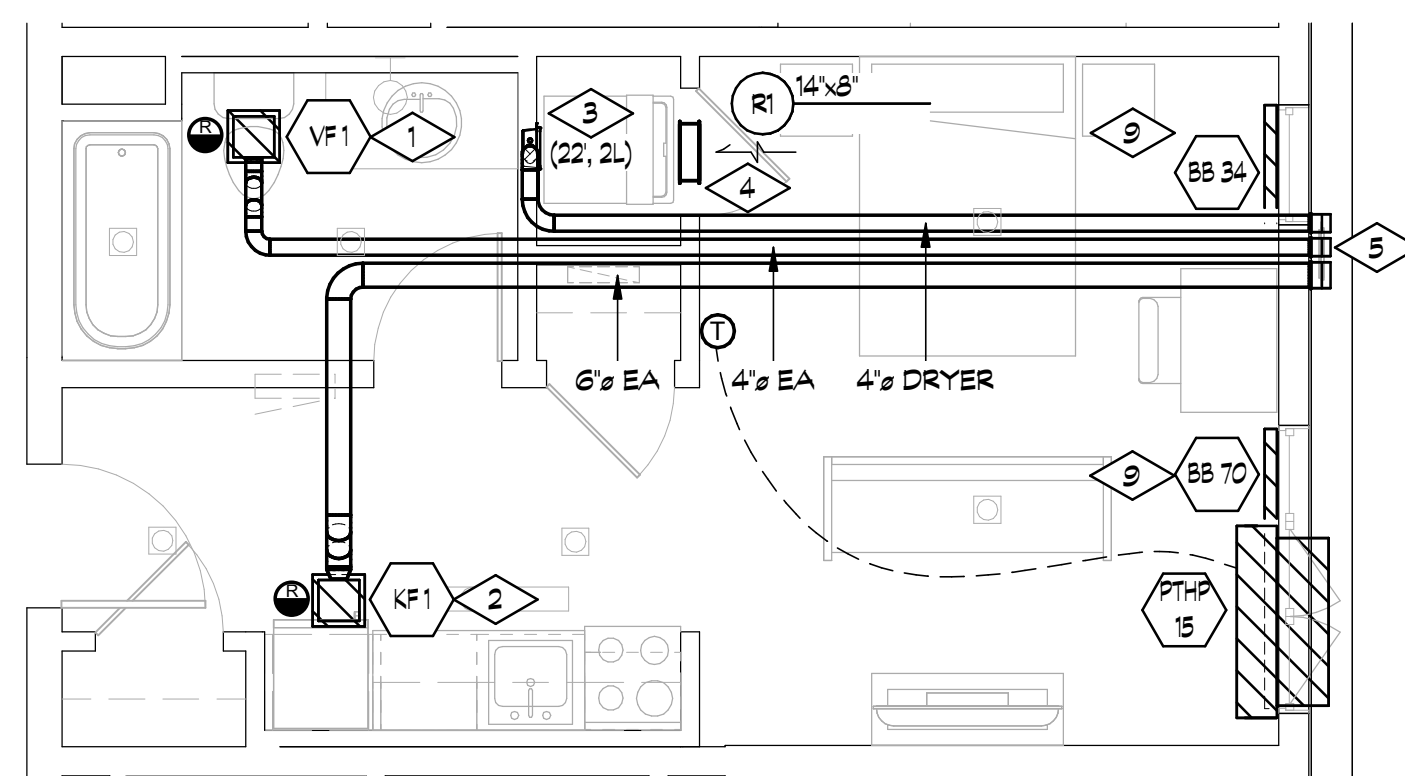
NOTE: SEE VIEW #3 ON SHEET  
MEPO413 FOR 5TH LEVEL PLAN



4 PLUMBING PLAN - TYPE 10  
1/4" = 1'-0"

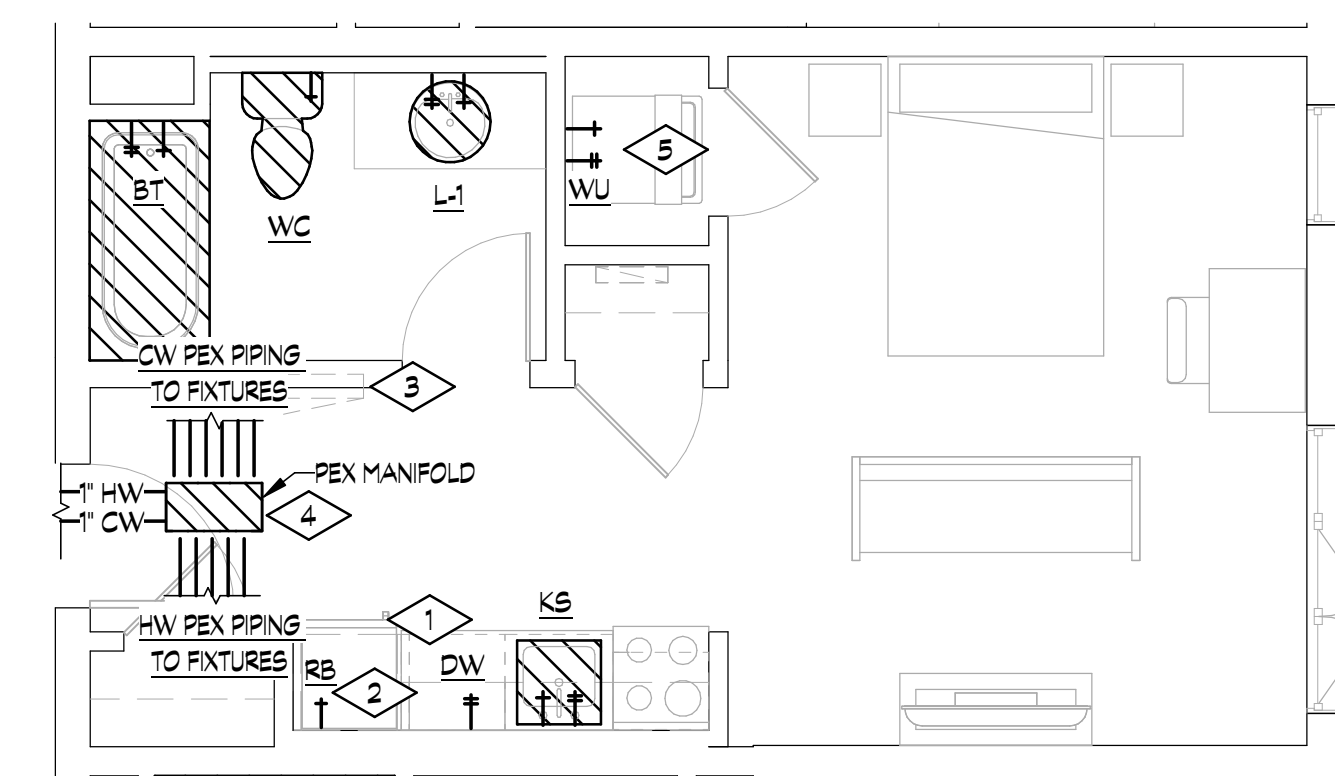


3 ELECTRICAL PLAN - TYPE 9  
1/4" = 1'-0"



2 HVAC PLAN - TYPE 9  
1/4" = 1'-0"

NOTE: SEE VIEW #2 ON SHEET  
MEPO413 FOR 5TH LEVEL PLAN



1 PLUMBING PLAN - TYPE 9  
1/4" = 1'-0"

APPROVAL STAMPS:

SUBMISSIONS & REVISIONS

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayreigler.com

ARCHITECT  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT

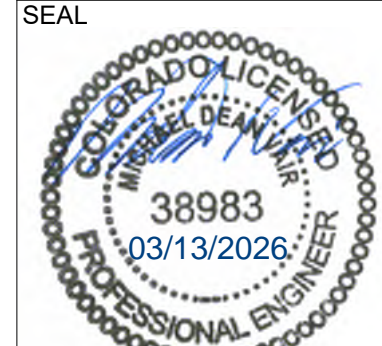
STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

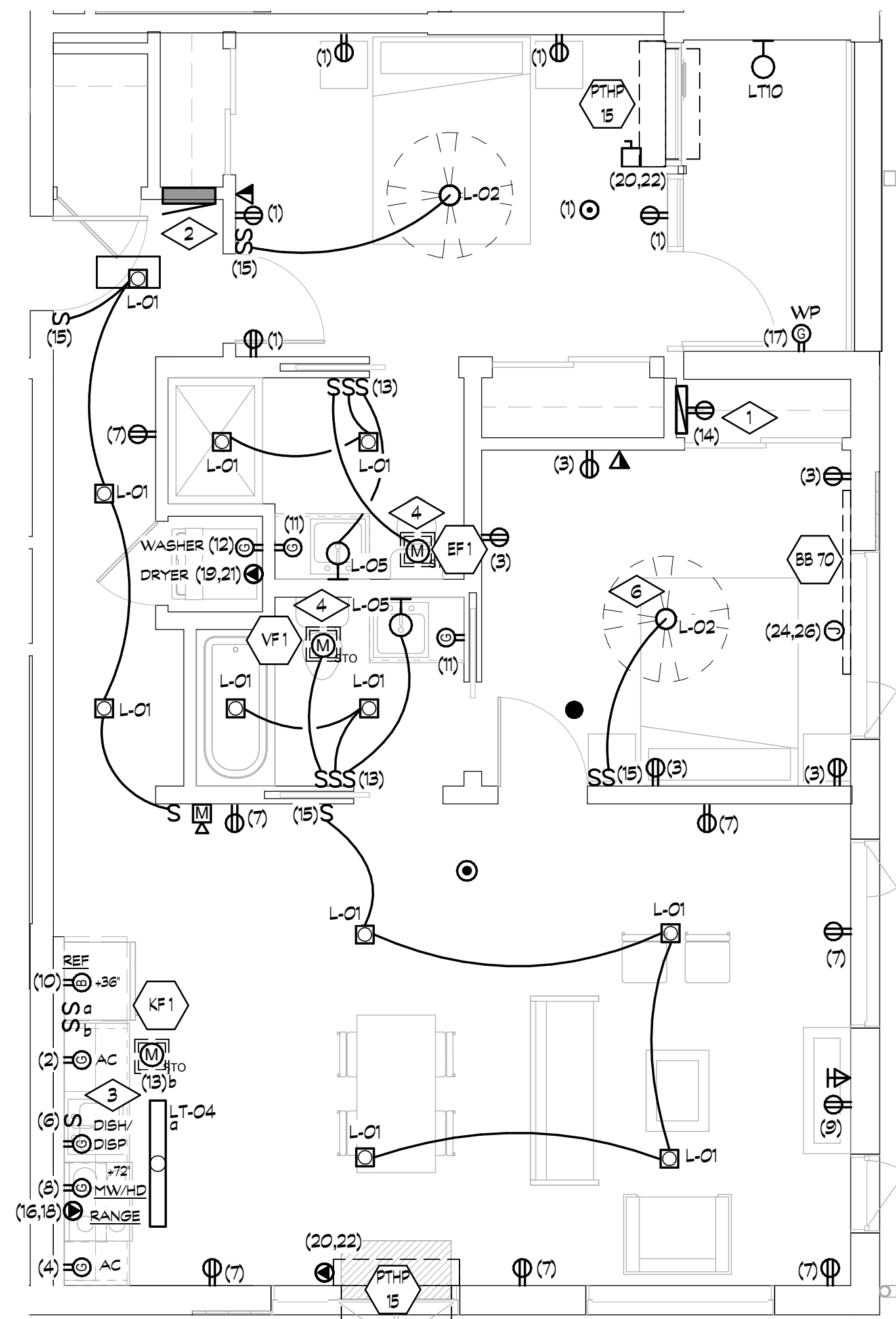
INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

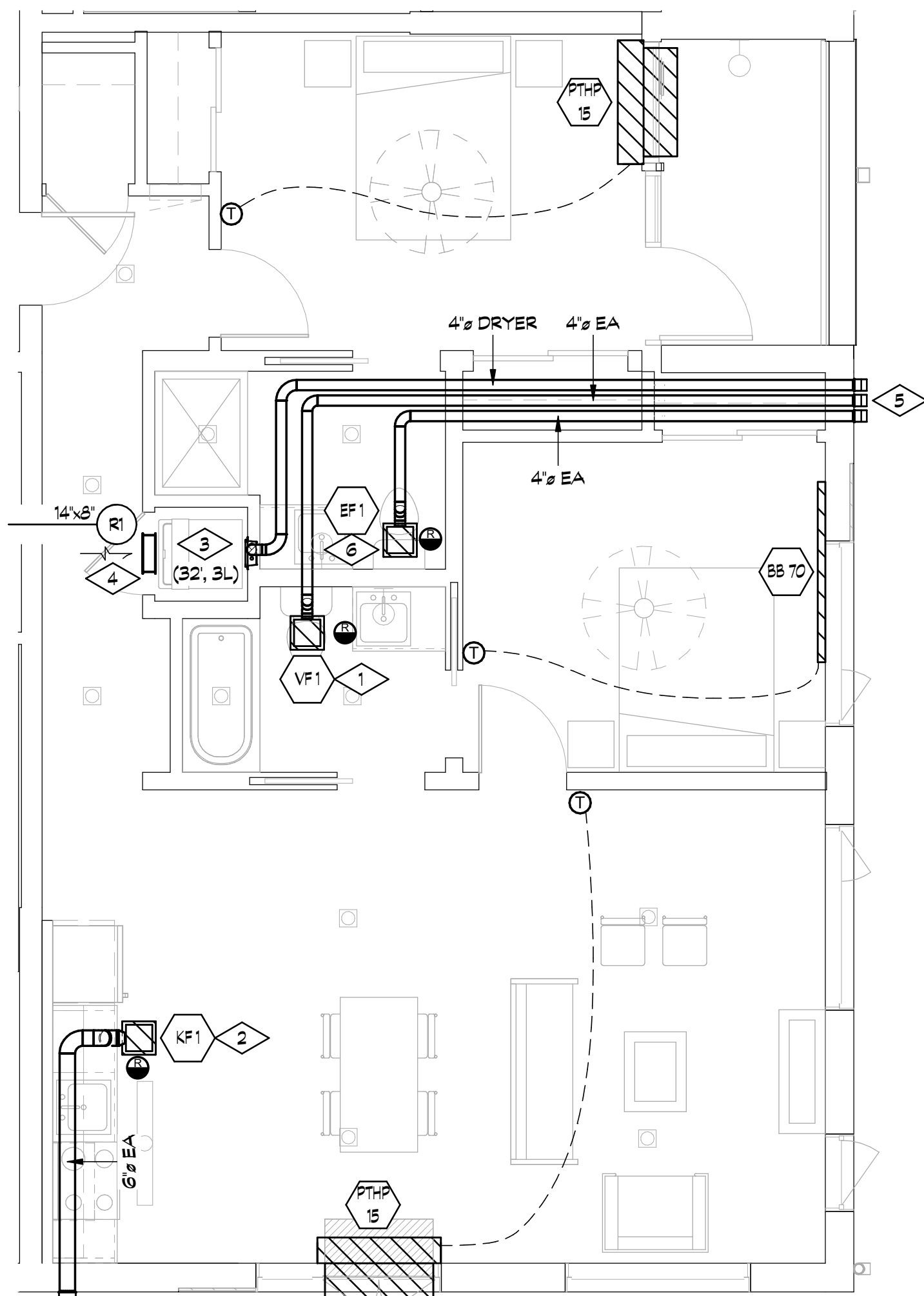
MEP UNIT PLANS -  
TYPE 9 & 10

SEAL:  DATE: 03.13.2026  
DRAWN BY: BEC  
CHECKED BY: MV  
PROJECT NO: 25135

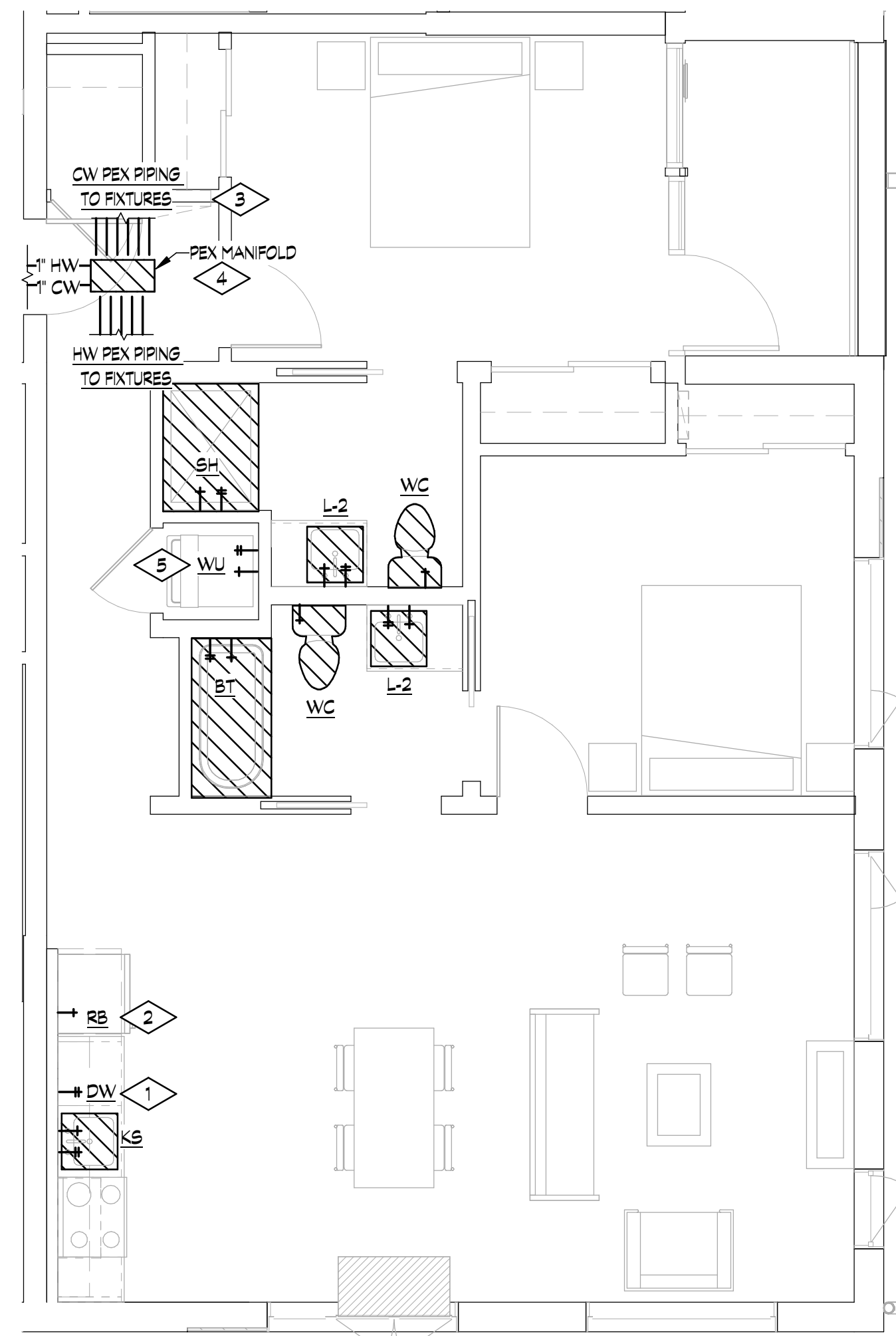
DRAWING NO:  
**MEP0408**



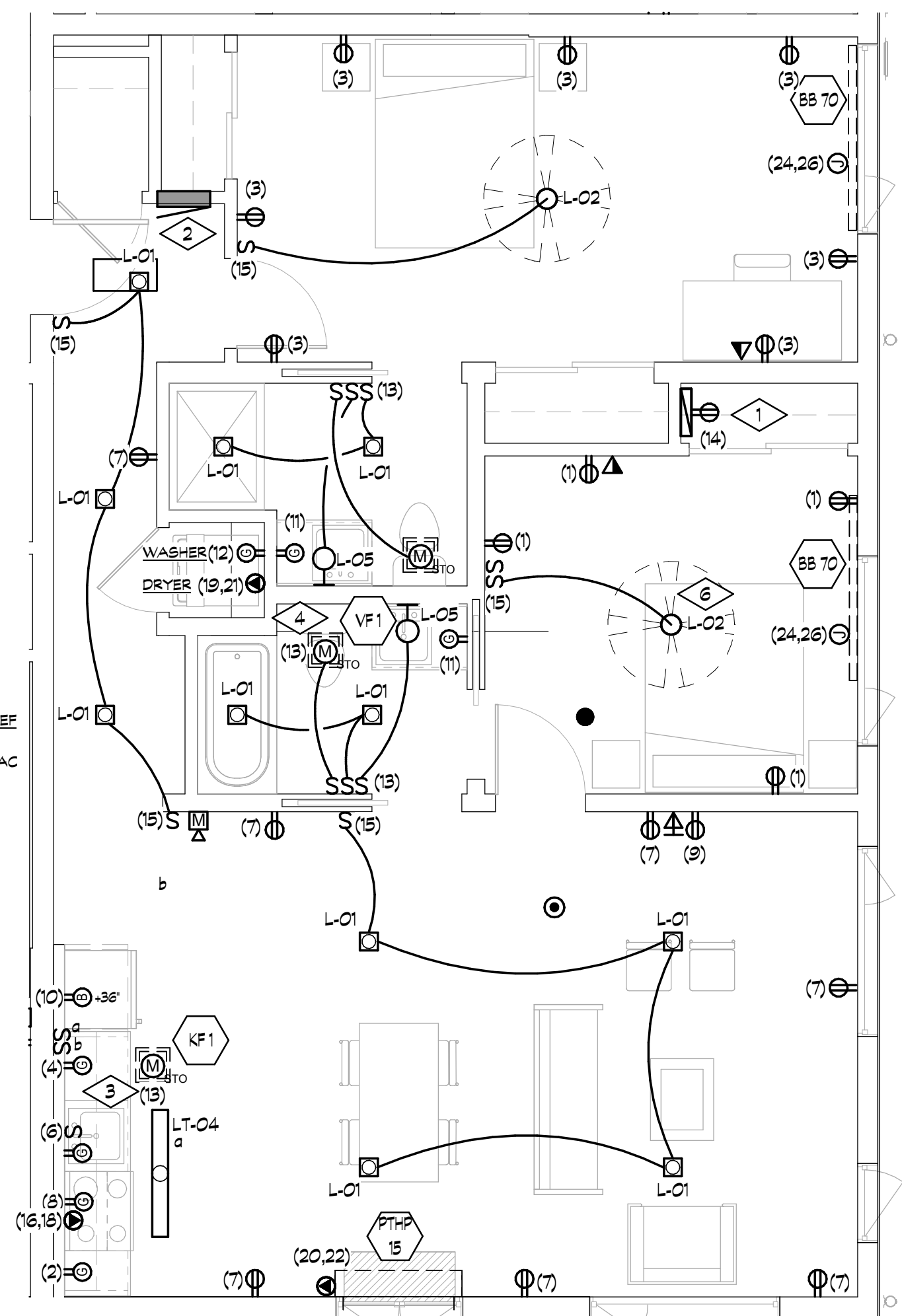
**6 ELECTRICAL PLAN - TYPE 11B**  
 1/4" = 1'-0"



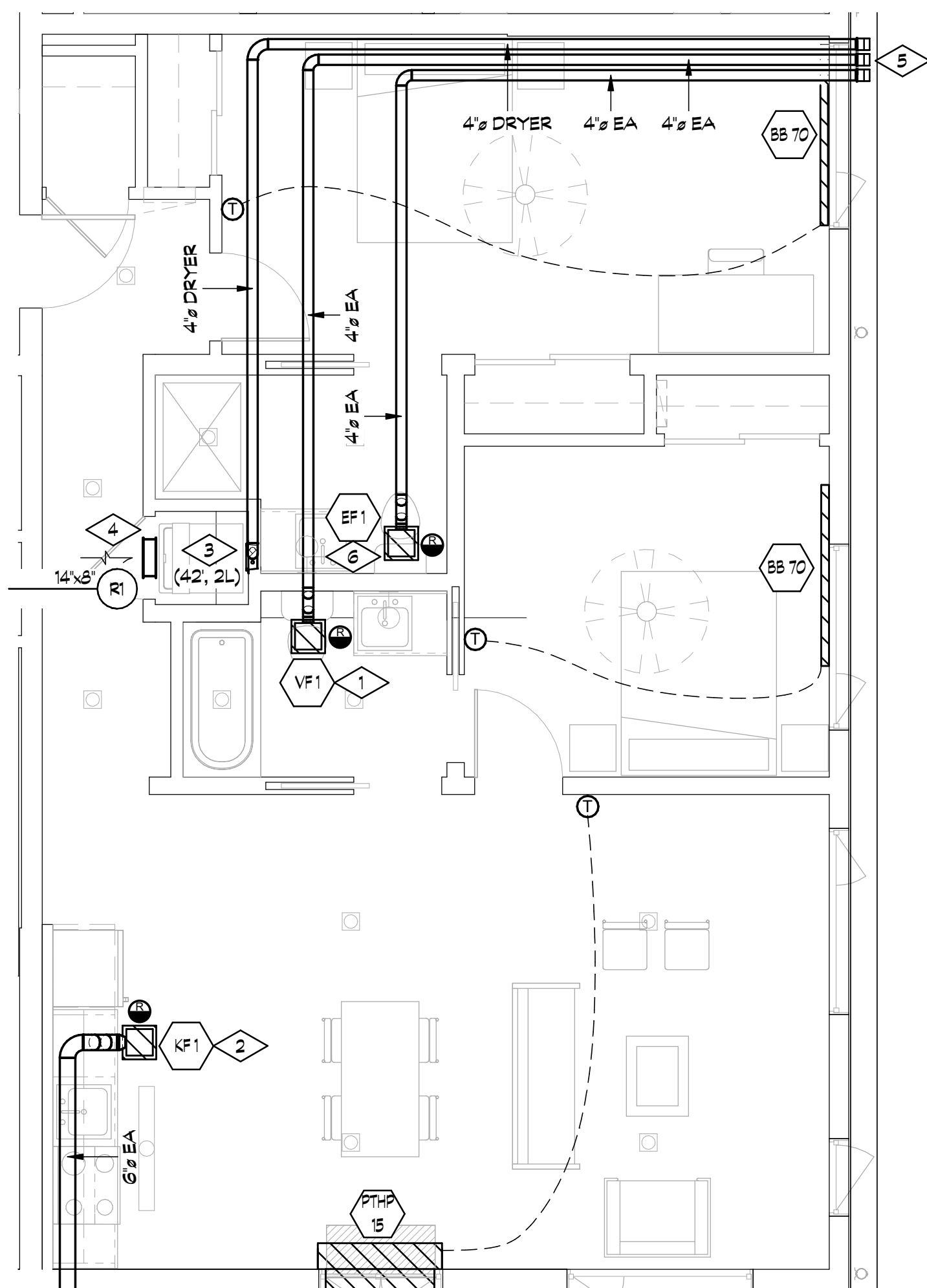
**5 HVAC PLAN - TYPE 11B**  
 1/4" = 1'-0"



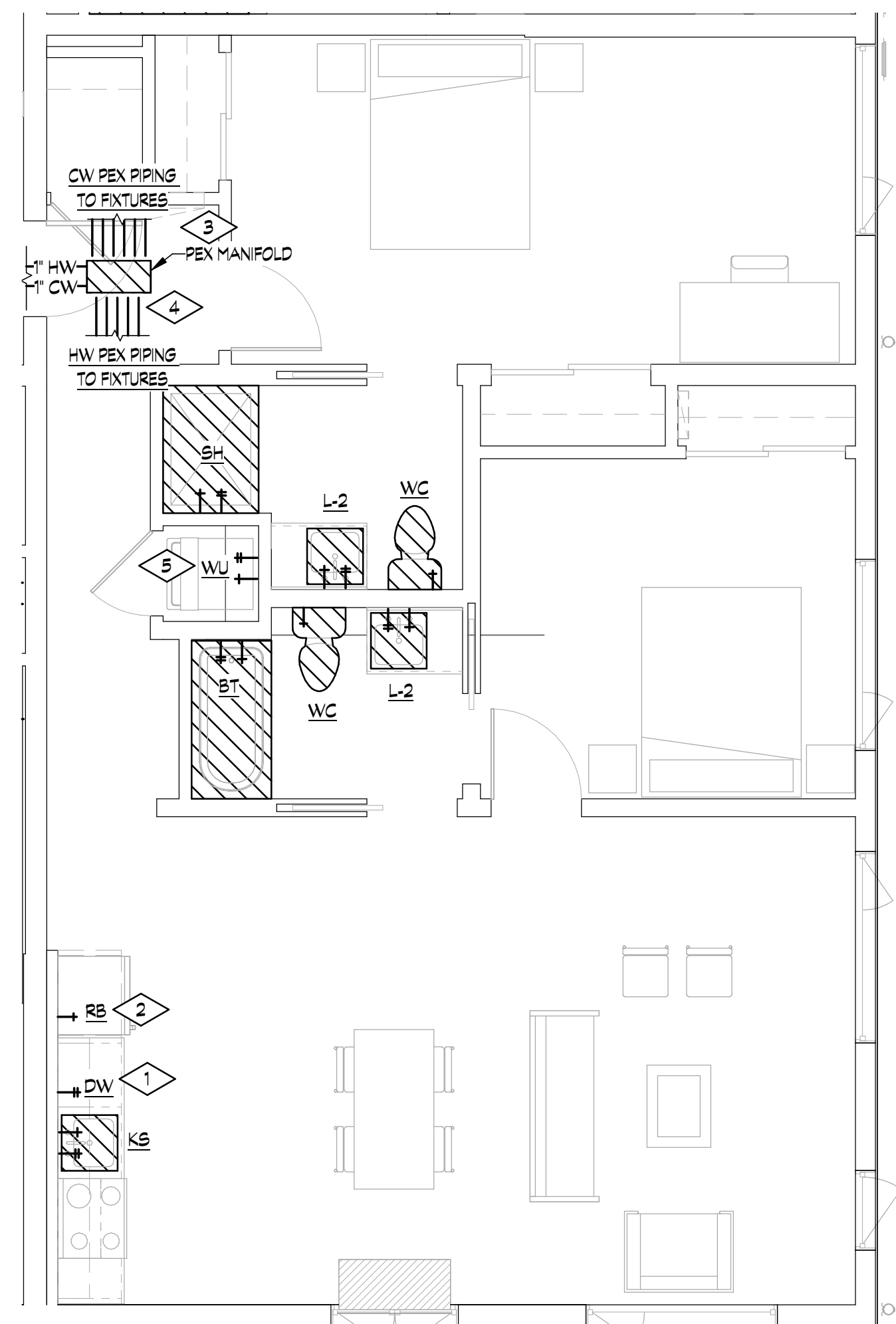
**4 PLUMBING PLAN - TYPE 11B**  
 1/4" = 1'-0"



**3 ELECTRICAL PLAN - TYPE 11A**  
 1/4" = 1'-0"



**2 HVAC PLAN - TYPE 11A**  
 1/4" = 1'-0"



**1 PLUMBING PLAN - TYPE 11A**  
 1/4" = 1'-0"

APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>K A S A</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**SUBMISSIONS & REVISIONS**

OWNER  
**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT  
**K A S A**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9494

LANDSCAPE ARCHITECT  
 STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

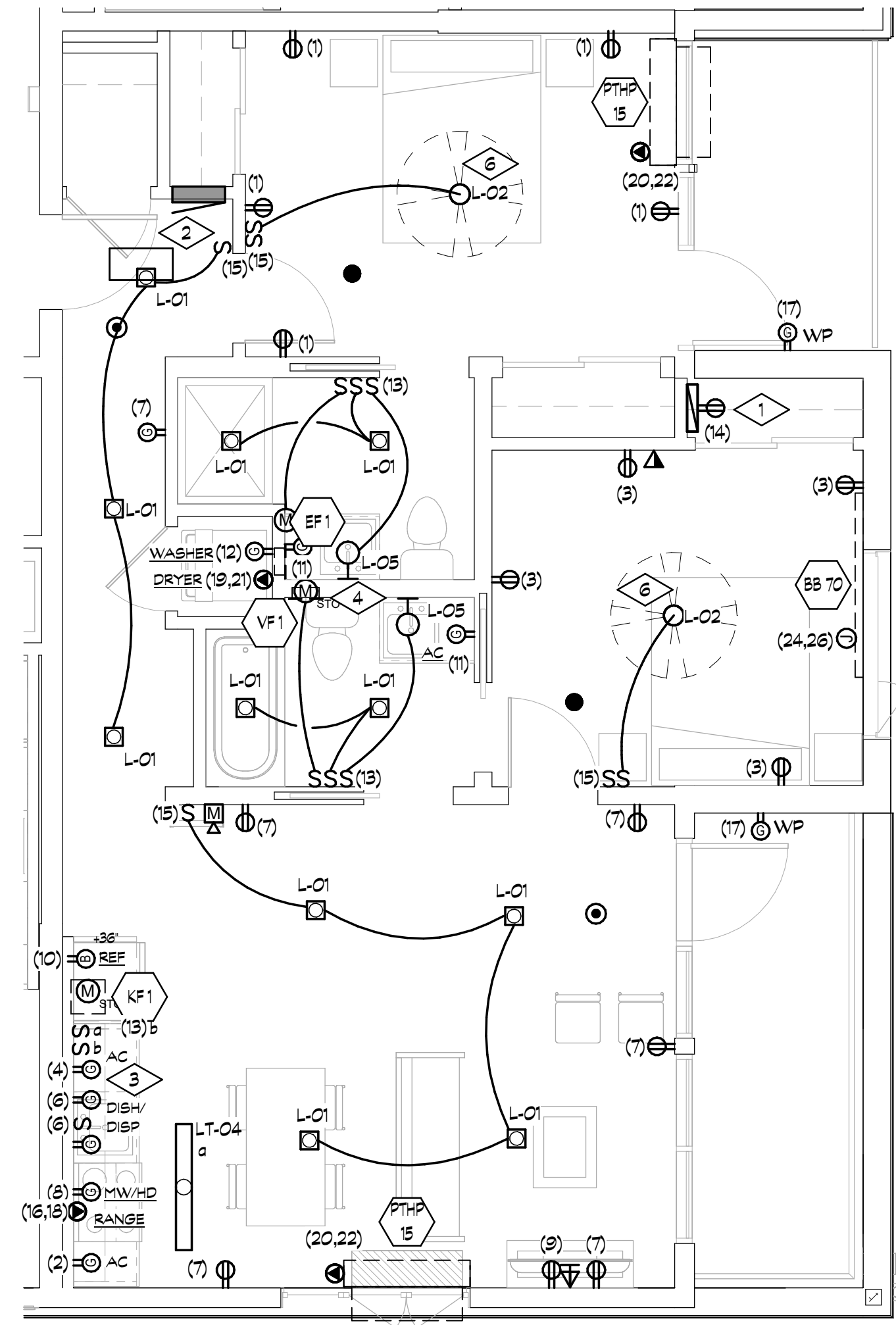
INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487  
 DRAWING TITLE

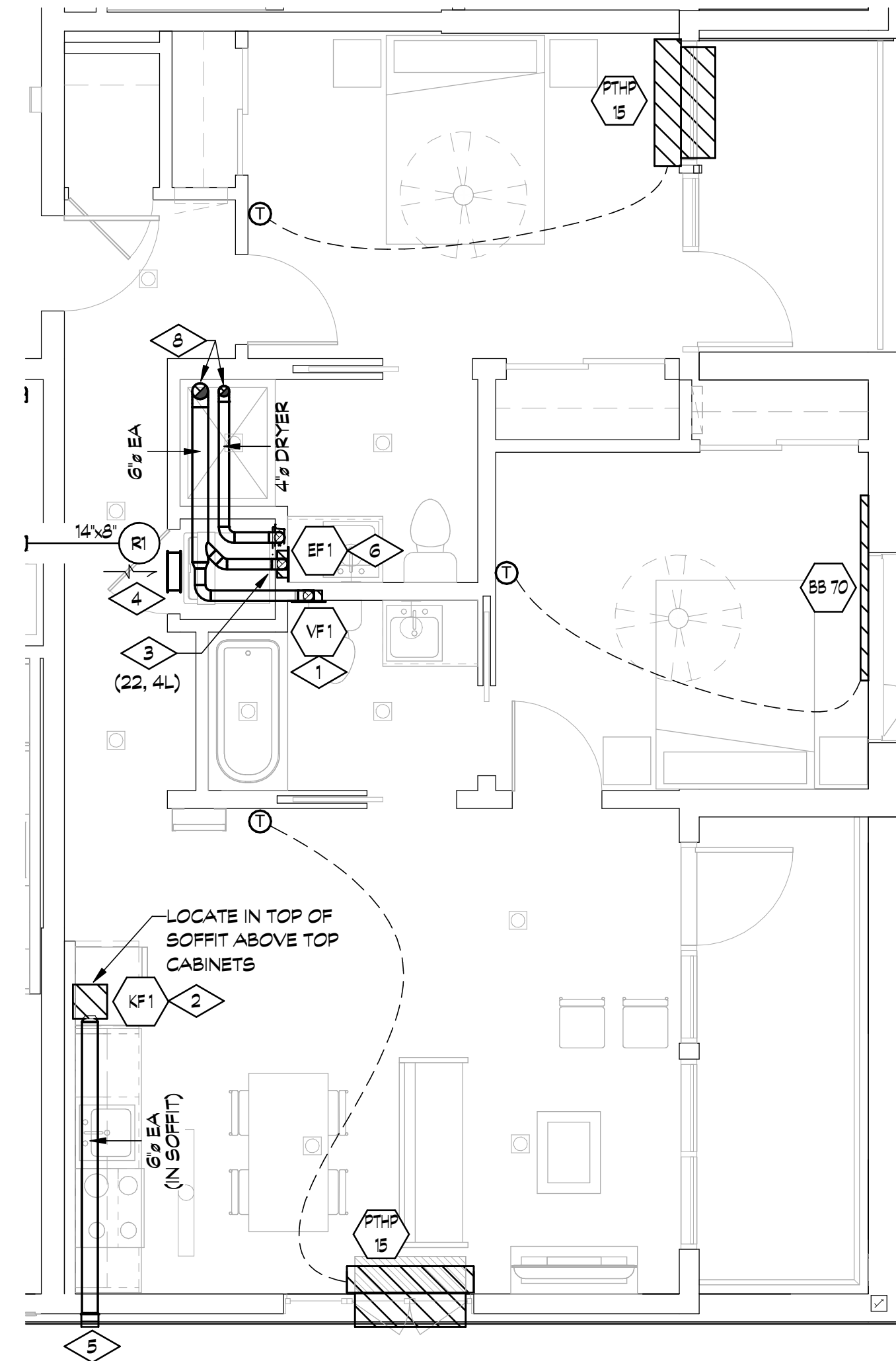
**MEP UNIT PLANS - TYPE 11A & 11B**

SEAL: DATE: 03.13.2026  
 DRAWN BY: BEC  
 CHECKED BY: MV  
 PROJECT NO: 25135

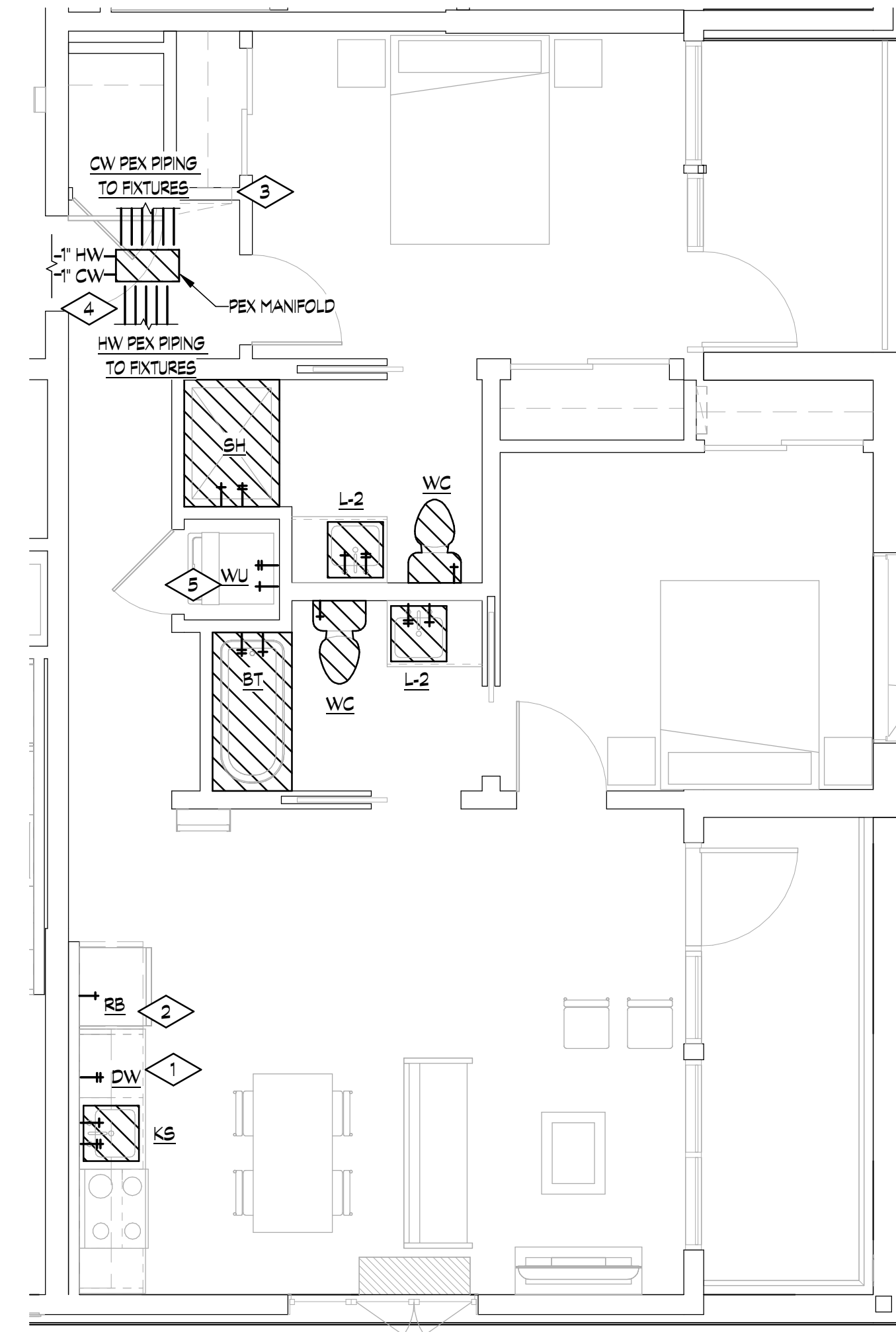
DRAWING NO:  
**MEP0409**  
 COPYRIGHT 2019



**6 ELECTRICAL PLAN - TYPE 11C**  
1/4" = 1'-0"



**5 HVAC PLAN - TYPE 11C**  
1/4" = 1'-0"



**4 PLUMBING PLAN - TYPE 11C**  
1/4" = 1'-0"

3/13/2026 8:49:45 AM

APPROVAL STAMPS:

NO. DATE DESCRIPTION

SUBMISSIONS & REVISIONS

OWNER

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT

**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

**MEP UNIT PLANS - TYPE 11C**

SEAL

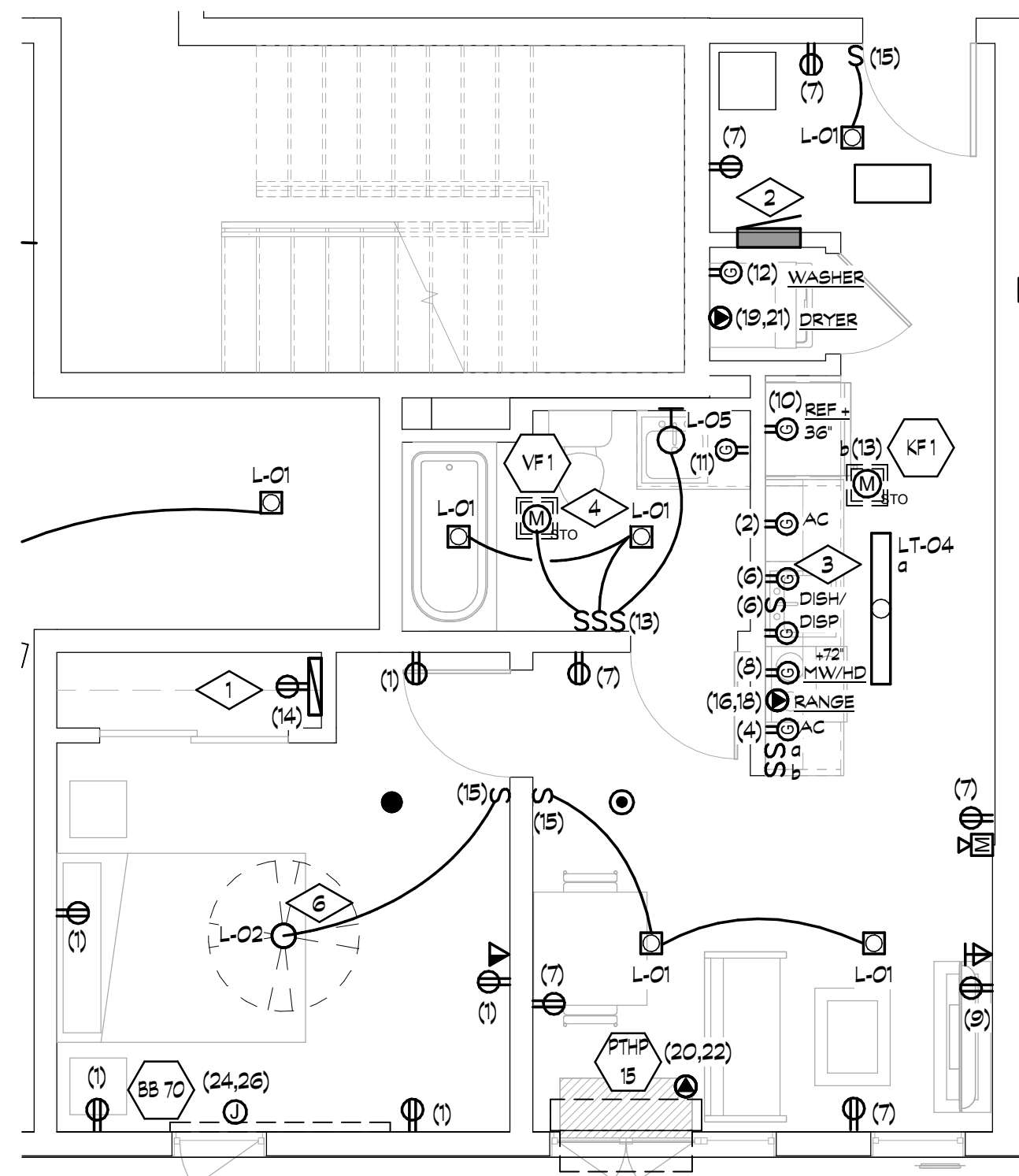
DATE: 03.13.2026  
DRAWN BY: BEC  
CHECKED BY: MV  
PROJECT NO: 25135



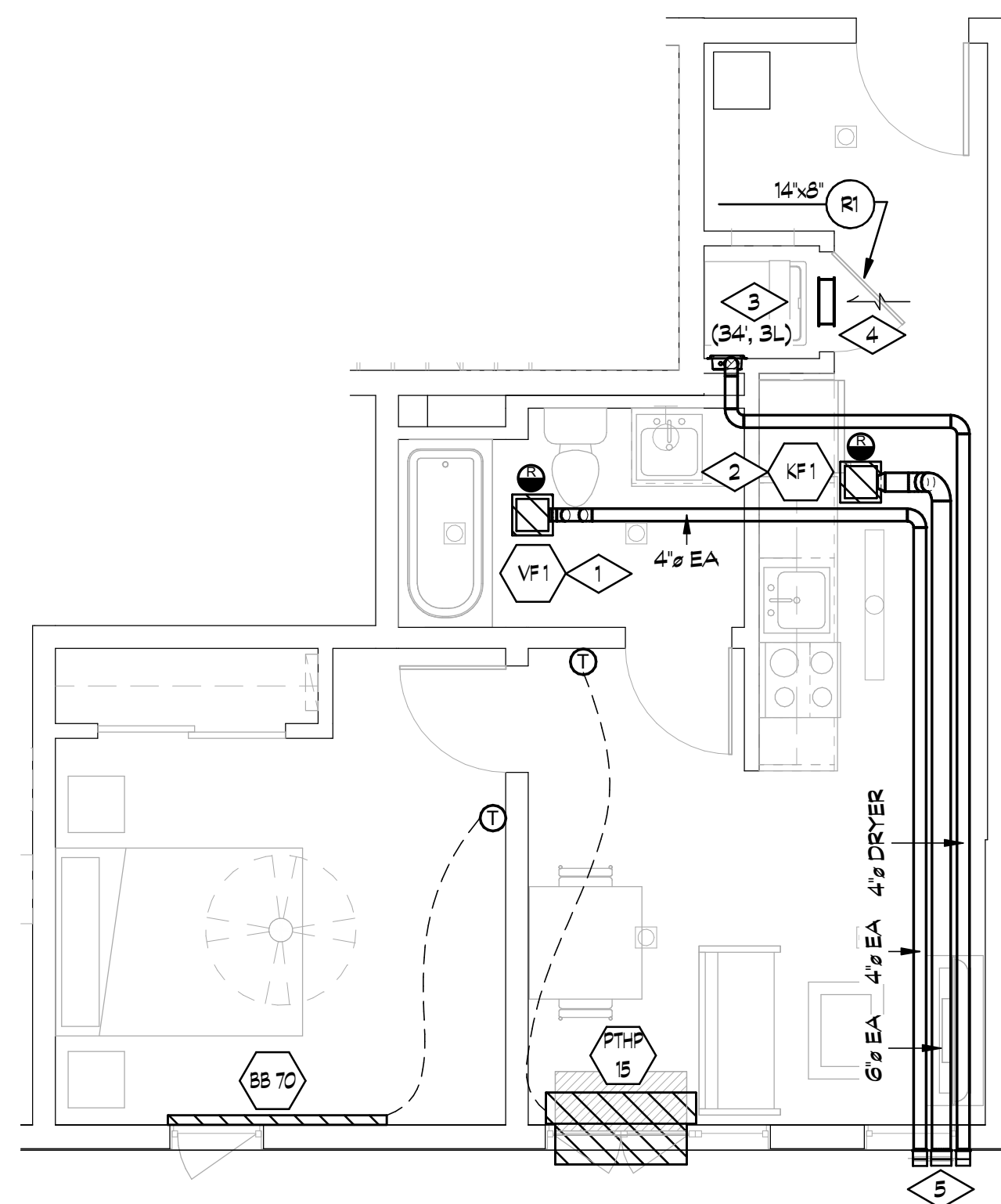
DRAWING NO:

**MEP0410**

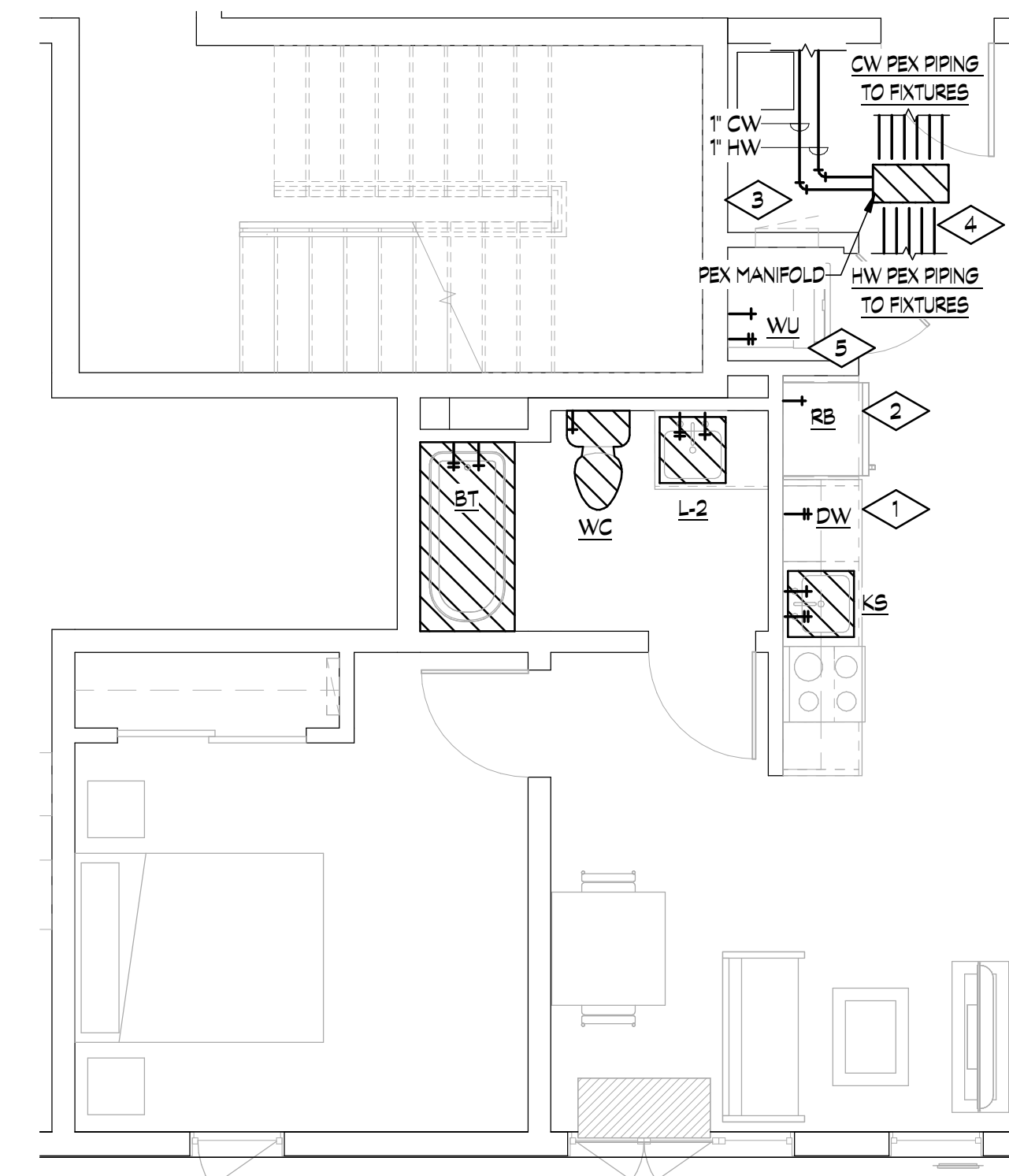




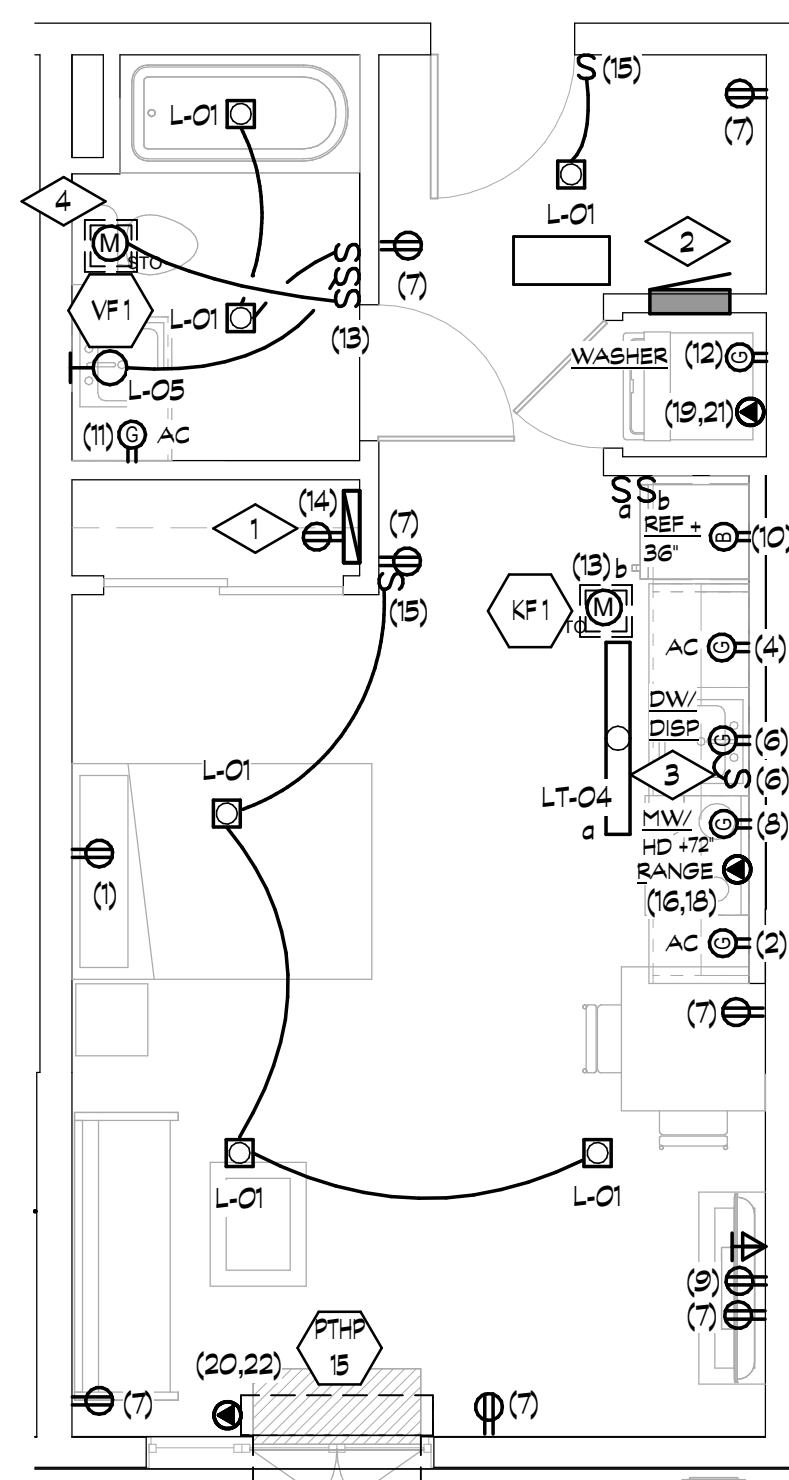
6 ELECTRICAL PLAN - TYPE 14  
1/4" = 1'-0"



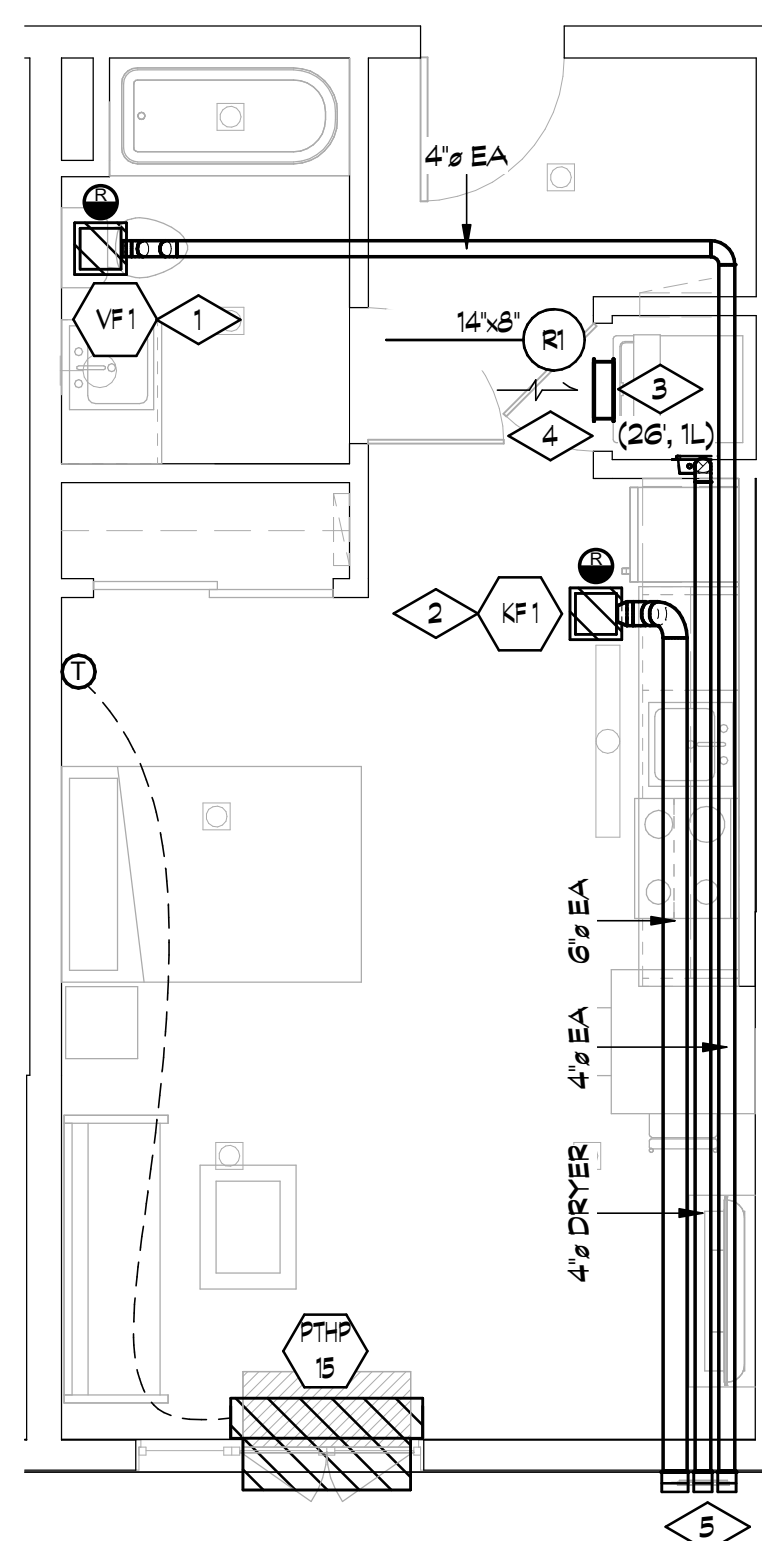
5 HVAC PLAN - TYPE 14  
1/4" = 1'-0"



4 PLUMBING PLAN - TYPE 14  
1/4" = 1'-0"

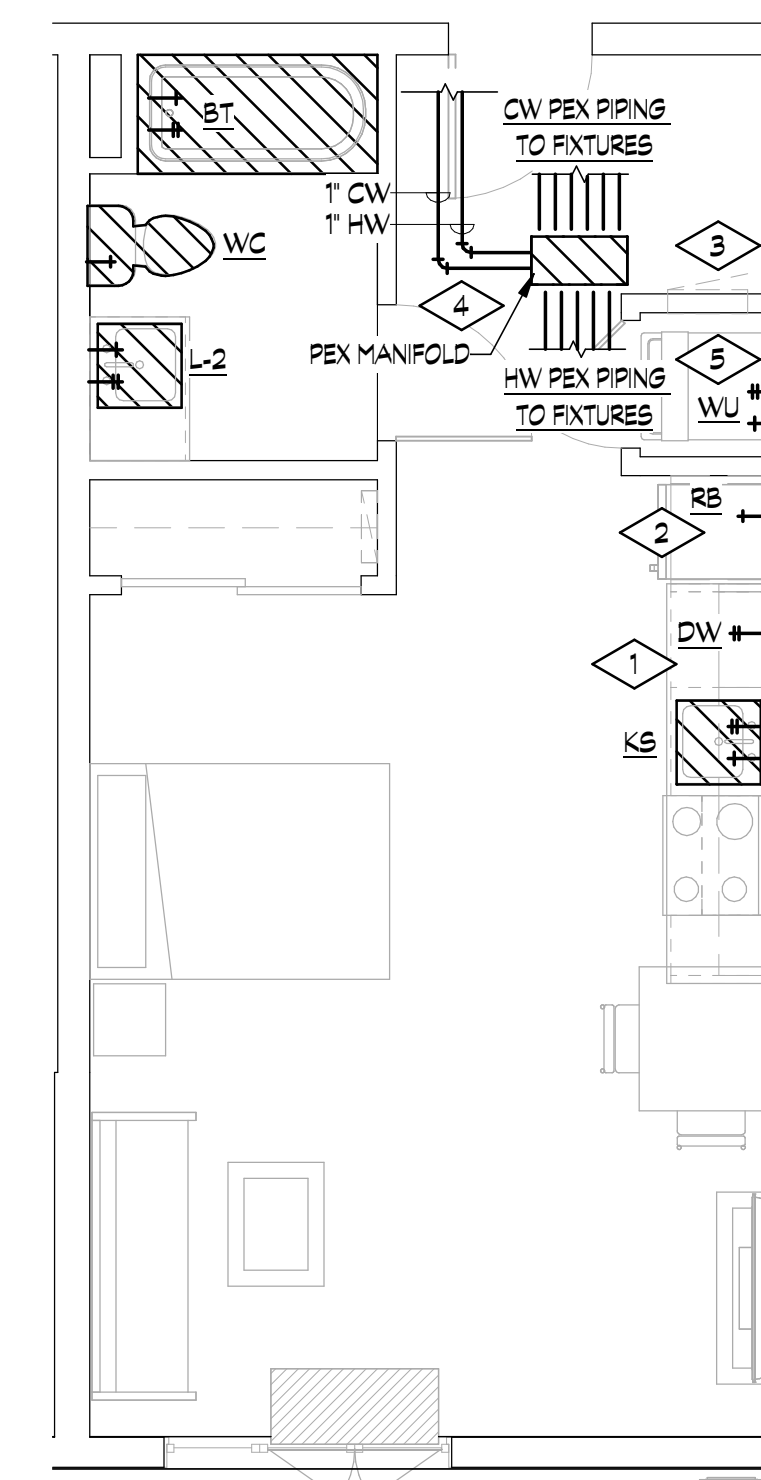


3 ELECTRICAL PLAN - TYPE 13  
1/4" = 1'-0"



2 HVAC PLAN - TYPE 13  
1/4" = 1'-0"

NOTE: SEE VIEW #6 ON SHEET  
MEP0413 FOR 5TH LEVEL PLAN



1 PLUMBING PLAN - TYPE 13  
1/4" = 1'-0"

APPROVAL STAMPS:

SUBMISSIONS & REVISIONS

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayreigler.com

ARCHITECT  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

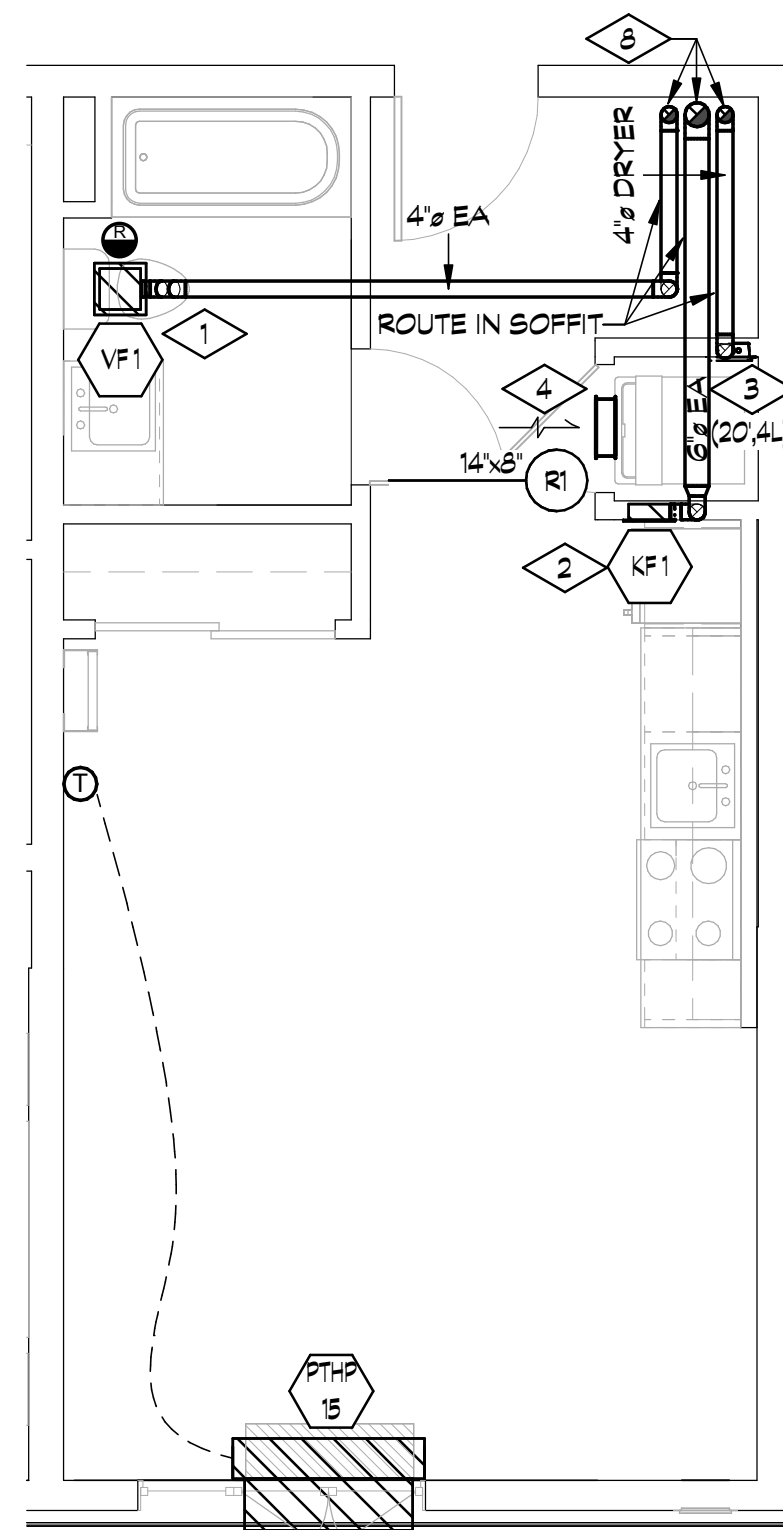
INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

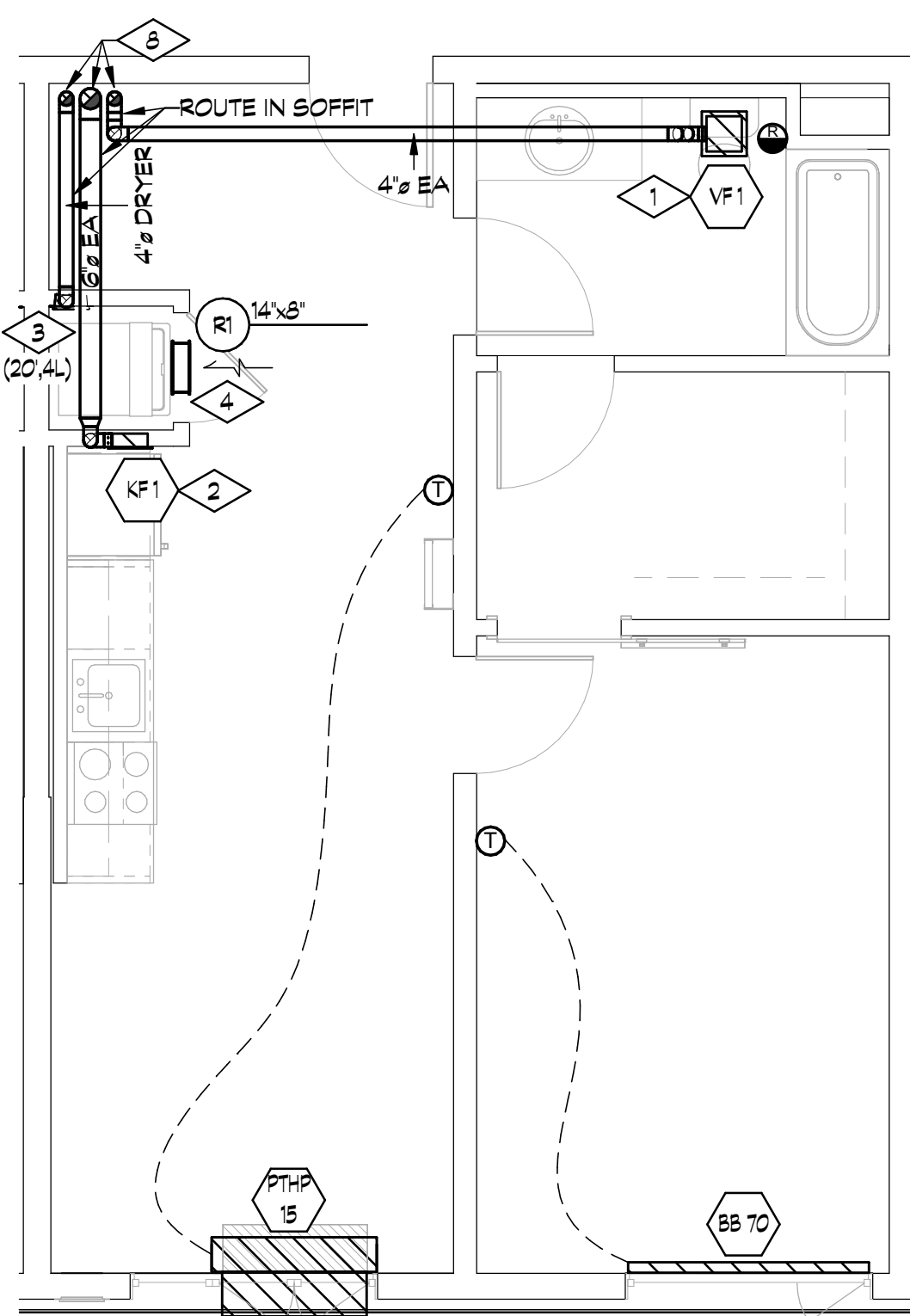
DRAWING TITLE  
**MEP UNIT PLANS -  
TYPE 13 & 14**

SEAL:  DATE: 03.13.2026  
DRAWN BY: BEC  
CHECKED BY: MV  
PROJECT NO: 25135

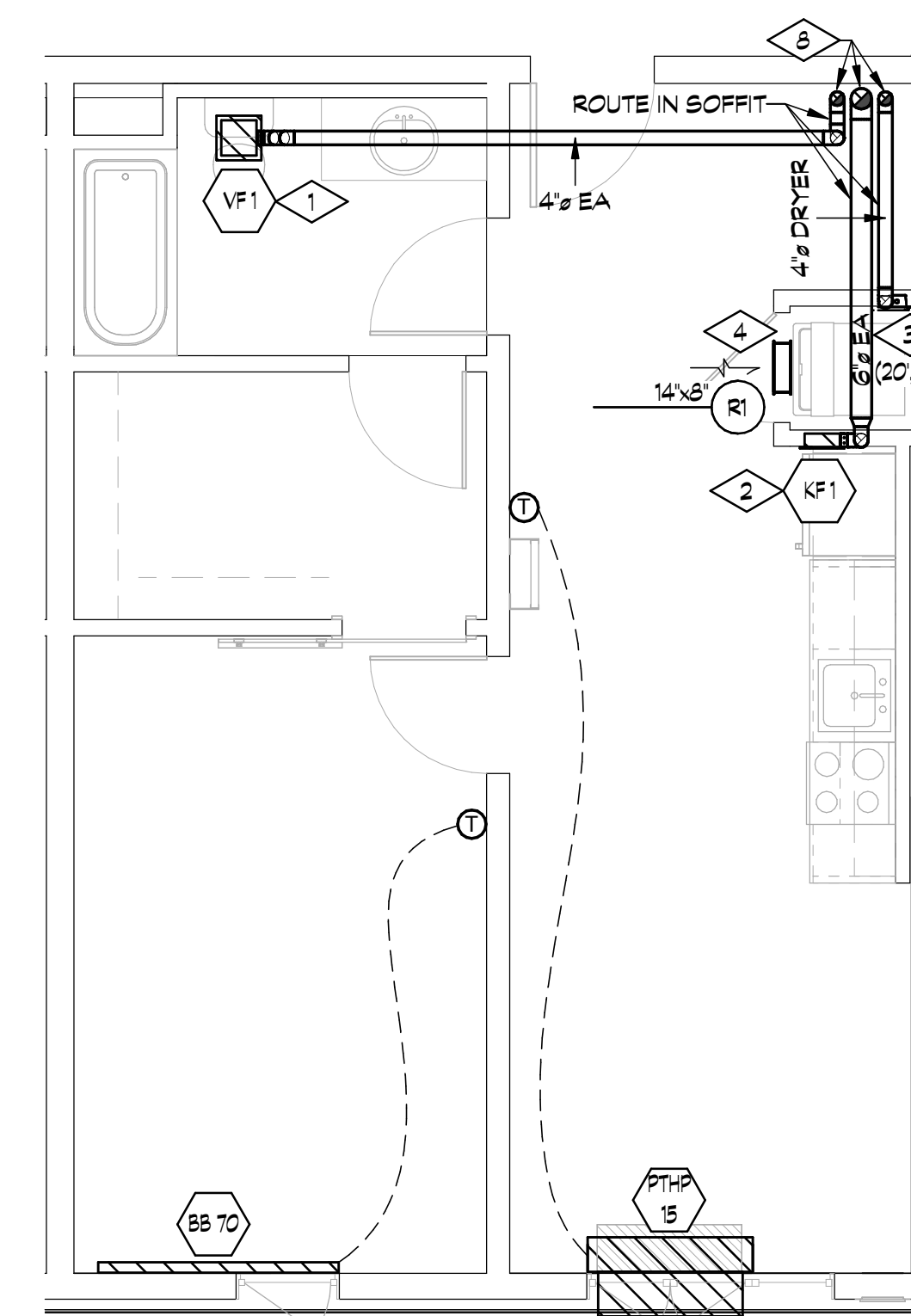
DRAWING NO:  
**MEP0412**



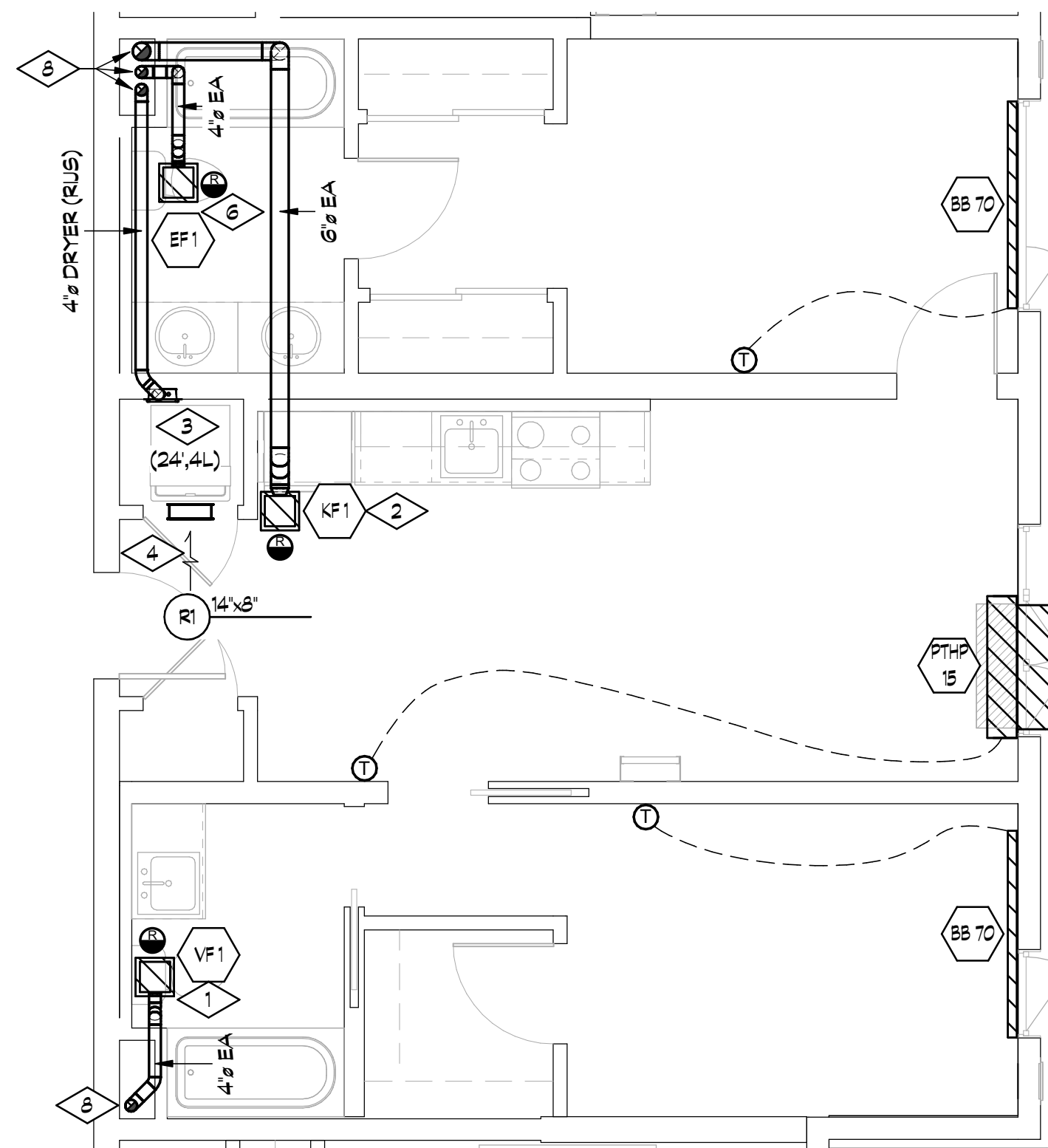
6 HVAC PLAN - TYPE 13 - 5TH LEVEL  
1/4" = 1'-0"



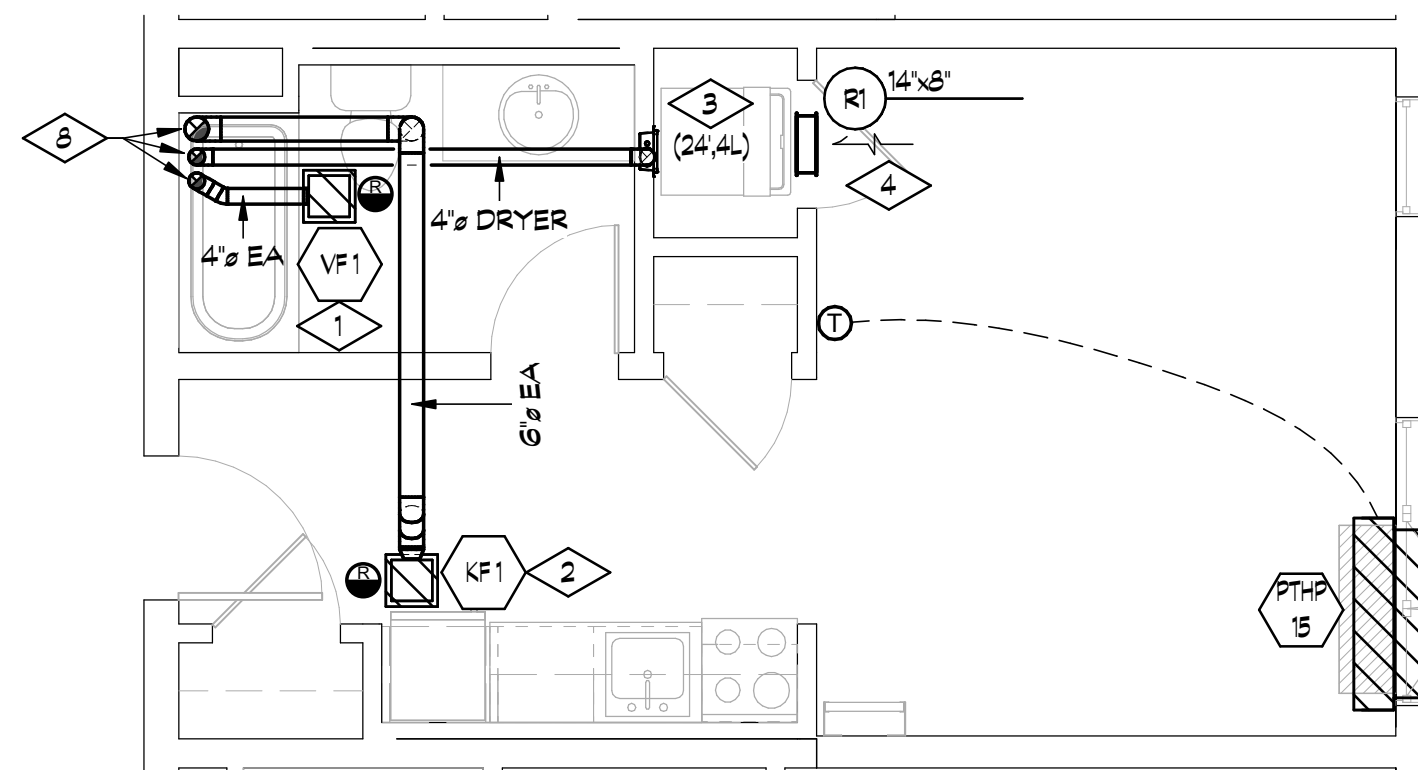
5 HVAC PLAN - TYPE 12B - 5TH LEVEL  
1/4" = 1'-0"



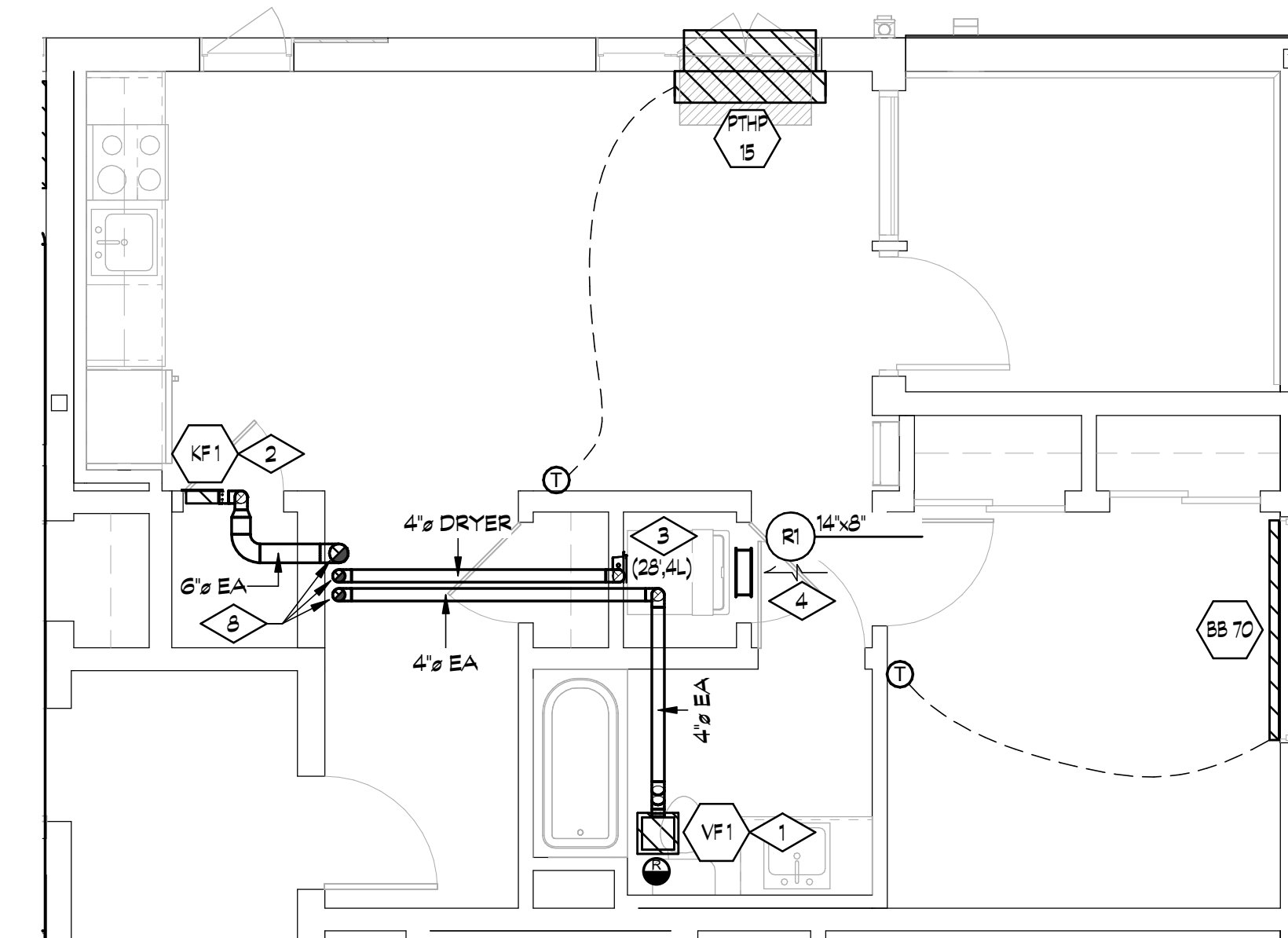
4 HVAC PLAN - TYPE 12A - 5TH LEVEL  
1/4" = 1'-0"



3 HVAC PLAN - TYPE 10 - 5TH LEVEL  
1/4" = 1'-0"



2 HVAC PLAN - TYPE 9 - 5TH LEVEL  
1/4" = 1'-0"



1 HVAC PLAN - TYPE 8B - 5TH LEVEL  
1/4" = 1'-0"

THESE PLANS REFLECT THE DUCTWORK FOR THE 5TH FLOOR UNITS WITH MEZZANINES ONLY. PLUMBING AND ELECTRICAL REMAIN THE SAME.

3/13/2026 8:49:59 AM

APPROVAL STAMPS:

No. Date Description

SUBMISSIONS & REVISIONS

OWNER

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT

**K A S A**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION

**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE  
**MEP UNIT PLANS -  
5TH LEVEL HVAC  
TYPE 8B, 9, 10, 12A,  
12B, & 13**

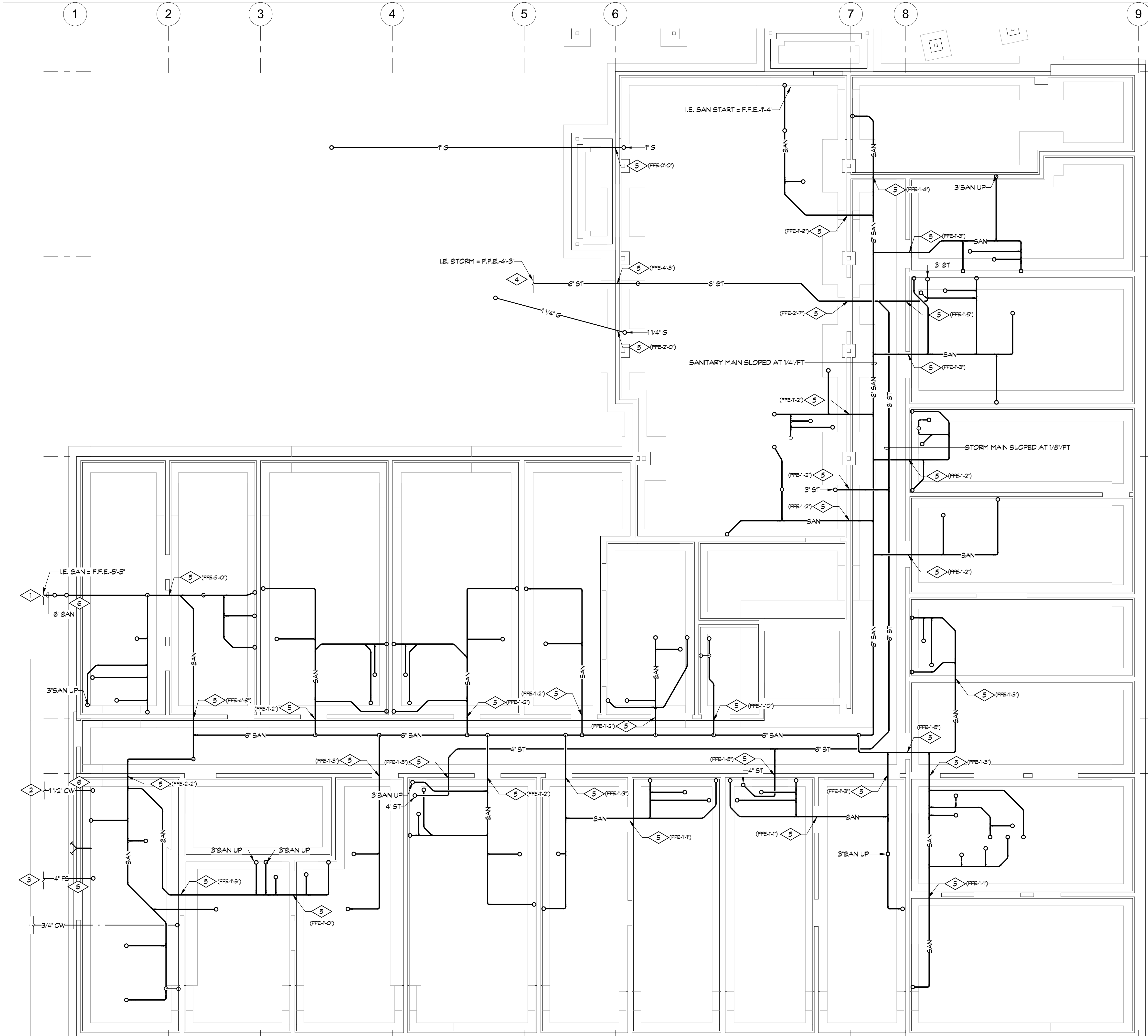
SEAL

DATE:  
03.13.2026  
DRAWN BY:  
MO  
CHECKED BY:  
MV  
PROJECT NO:  
25135

DRAWING NO:

**MEP0413**

COPYRIGHT 2019



**GENERAL NOTES**

- A. IN THE CASE OF A DISCREPANCY BETWEEN GENERAL NOTES, DETAIL NOTES, SPECIFICATION, OR GRAPHICAL DEPICTIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY DESIGN INTENT WITH ENGINEER.
- B. REFER TO SCHEDULES, DIAGRAMS AND ISOMETRIC DIAGRAMS FOR ALL PIPE SIZES NOT SHOWN ON PLAN.
- C. FIELD COORDINATE ALL EQUIPMENT LOCATIONS AND PIPE ROUTINGS WITH ALL STRUCTURAL, HVAC, LIGHTS AND ALL OTHER DISCIPLINES PRIOR TO BEGINNING WORK.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY AND ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE THEIR WORK, COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- E. PLUMBING CONTRACTOR TO COORDINATE ROUGH-IN DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- F. WATER, SEWER, GAS AND ELECTRICAL CONDUITS MUST FIT WITHIN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- G. COORDINATE ALL ACCESS PANEL LOCATIONS FOR VALVES, SHOCK ARRESTORS, AIR ADMITTANCE VALVES AND ALL OTHER PLUMBING COMPONENTS INVOLVING ACCESS WITH ARCHITECT.
- H. NOT ALL ISOLATION VALVES SHOWN ON PLANS. PROVIDE ISOLATION VALVES ON ALL DOMESTIC WATER BRANCH PIPING. COORDINATE ANY AND ALL ACCESS PANELS WITH ARCHITECT.
- I. EQUIPMENT GAS CONNECTION SIZE PER PLANS OR SAME AS APPLIANCE SIZE, WHICHEVER IS LARGER. TRANSITION DOWNSTREAM OF ALL SHUTOFFS AND REGULATORS AS CLOSE TO APPLIANCE AS POSSIBLE WHEN PLANS CALL FOR LARGER THAN APPLIANCE.
- J. EXPOSED SEWER PIPING (TRAPS & INDIRECT DRAINS) MUST BE COPPER. RE: PROJECT SPECS.

**DETAIL NOTES THIS SHEET**

- 1. EXTEND AND CONNECT NEW SANITARY WASTE TO CIVIL POINT OF CONNECTION (POC) IN AREA SHOWN. PROVIDE 2-WAY CLEANOUT AT SANITARY WASTE/SEWER JUNCTION AT EXTERIOR OF BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT ELEVATION AT POINT OF CONNECTION.
- 2. EXTEND AND CONNECT NEW DOMESTIC COLD WATER PIPING TO CIVIL POC. FIELD VERIFY EXACT LOCATION AND CONNECTION. BASIS OF DESIGN IS INTERIOR METER WITH 1-1/2" TAP/METER ASSEMBLY WITH INCREASE IN SERVICE SIZE TO 2" AT A POINT 50' DOWNSTREAM OF METER TO BUILDING RPZ, AND UPSIZED TO 3" PIPE DOWNSTREAM OF RPZ. SEE DETAIL ON P0501.
- 3. EXTEND AND CONNECT NEW FIRE PROTECTION PIPING TO CIVIL POC. FIELD VERIFY EXACT LOCATION AND CONNECTION. COORDINATE FIRE RISER ROOM LOCATION WITH G.C. COORDINATE FDC LOCATION WITH AHJ. SPRINKLER DESIGN TO BE PERFORMED BY NFPA CERTIFIED DESIGNER, SHOP DRAWINGS BY DEFERRED SUBMITTAL.
- 4. EXTEND AND CONNECT NEW STORM DRAINAGE TO CIVIL POINT OF CONNECTION (POC) IN AREA SHOWN. FIELD VERIFY EXACT LOCATION AND INVERT ELEVATION AT POINT OF CONNECTION.
- 5. STRUCTURAL FOUNDATION WALL PENETRATION AT LOCATION SHOWN, INVERT ELEVATION NOTED. RE: STRUCTURAL PLANS FOR DETAILS.
- 6. PIPE ROUTED BELOW STRUCTURAL FOOTER, MAINTAIN MINIMUM 6" CLEAR BETWEEN UNDERSIDE OF FOOTER AND TOP OF PIPE. RE: STRUCTURAL PLANS FOR DETAILS.

APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayreigler.com		
ARCHITECT		
<b>K A S A</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T.312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

PROJECT LOCATION

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

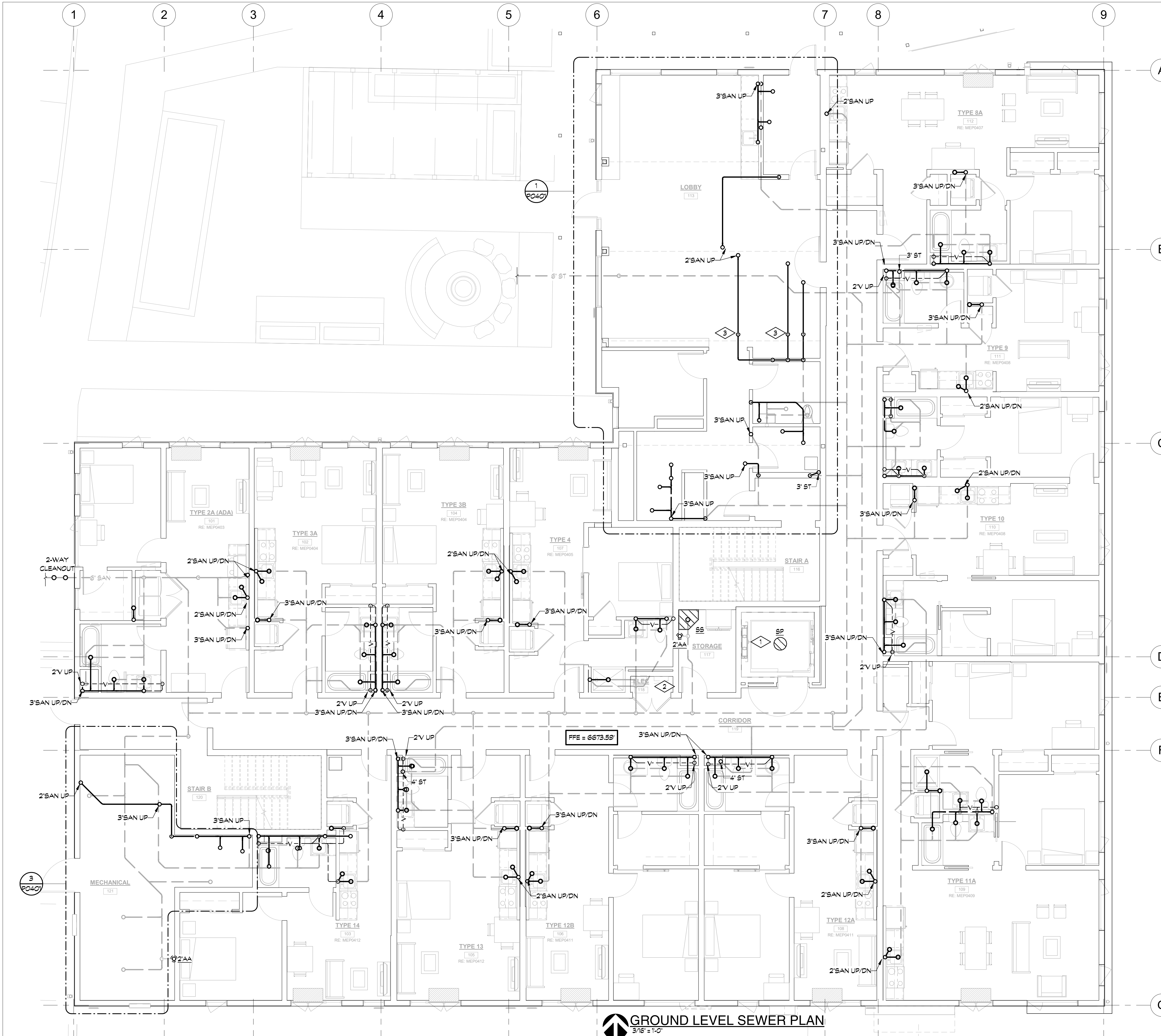
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487  
DRAWING TITLE

**UNDERGROUND PLUMBING PLAN**

SEAL: DATE: 03.13.2026  
DRAWN BY: TB  
CHECKED BY: MV  
PROJECT NO: 25135

DRAWING NO: **P0200**

**UNDERGROUND PLUMBING PLAN**  
3/8" = 1'-0"



**DETAIL NOTES THIS SHEET**

- ELEVATOR BUMP PUMP ROUTED TO CEILING AND OVER TO INDIRECT TO MOP SINK.
- NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
- ROUTE SANITARY PIPING BELOW STRUCTURAL BEAM IN AREA SHOWN.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**PROJECT LOCATION**

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

**DRAWING TITLE**

**GROUND LEVEL SEWER PLAN**

SEAL:  DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO: **P0201**

DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO: **P0201**

DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO: **P0201**

DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO: **P0201**

DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

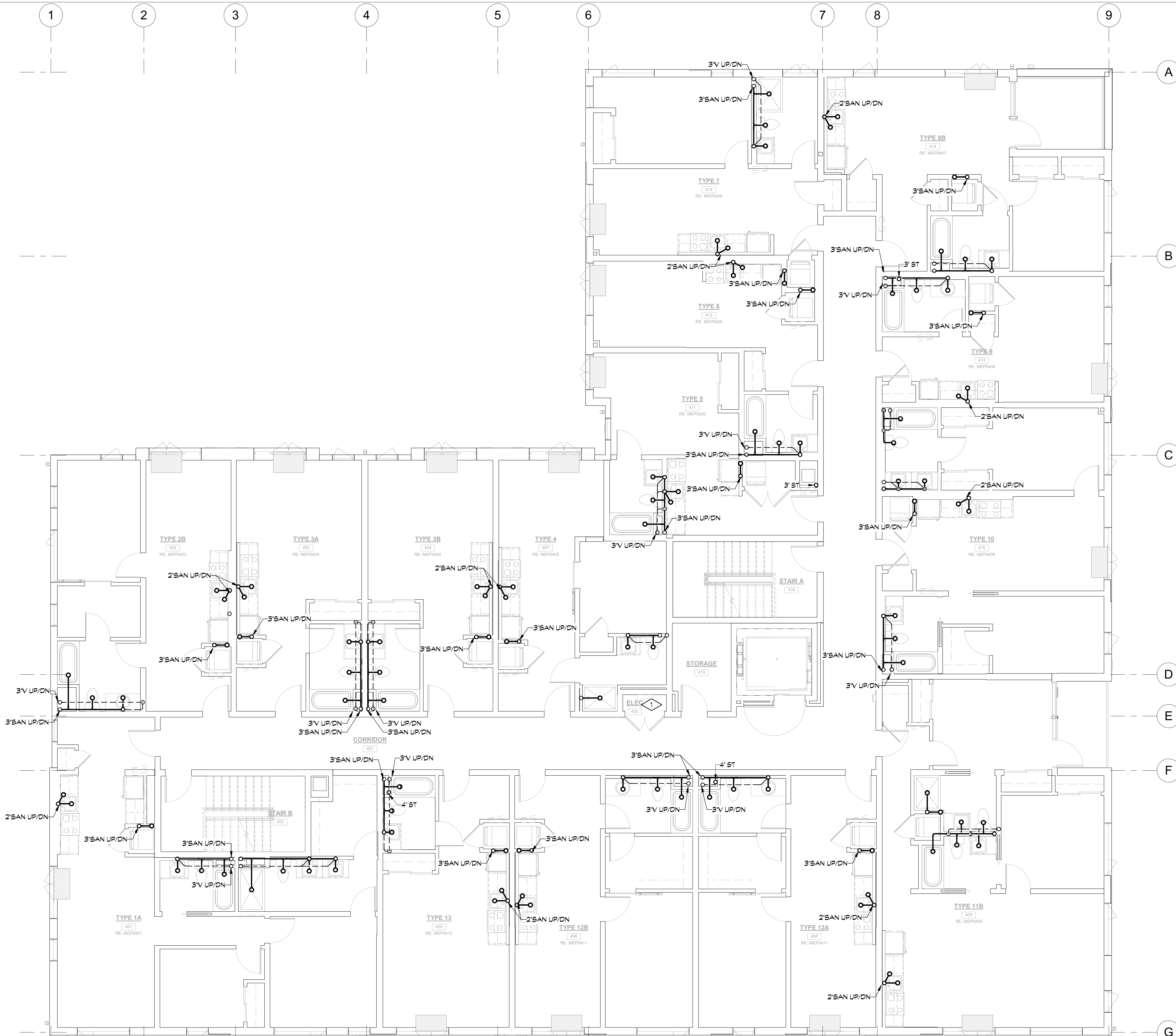
DRAWING NO: **P0201**





**DETAIL NOTES THIS SHEET**

- NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.



**FOURTH LEVEL SEWER PLAN**  
3/16" = 1'-0"

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUVE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**OWNER**

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

**ARCHITECT**

**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

**GENERAL CONTRACTOR**

**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

**CIVIL ENGINEER**

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9494

**LANDSCAPE ARCHITECT**

**STRUCTURAL ENGINEER**

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

**M.E.P. ENGINEERS**

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

**INTERIOR DESIGNER:**

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

**PROJECT LOCATION**

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487  
DRAWING TITLE

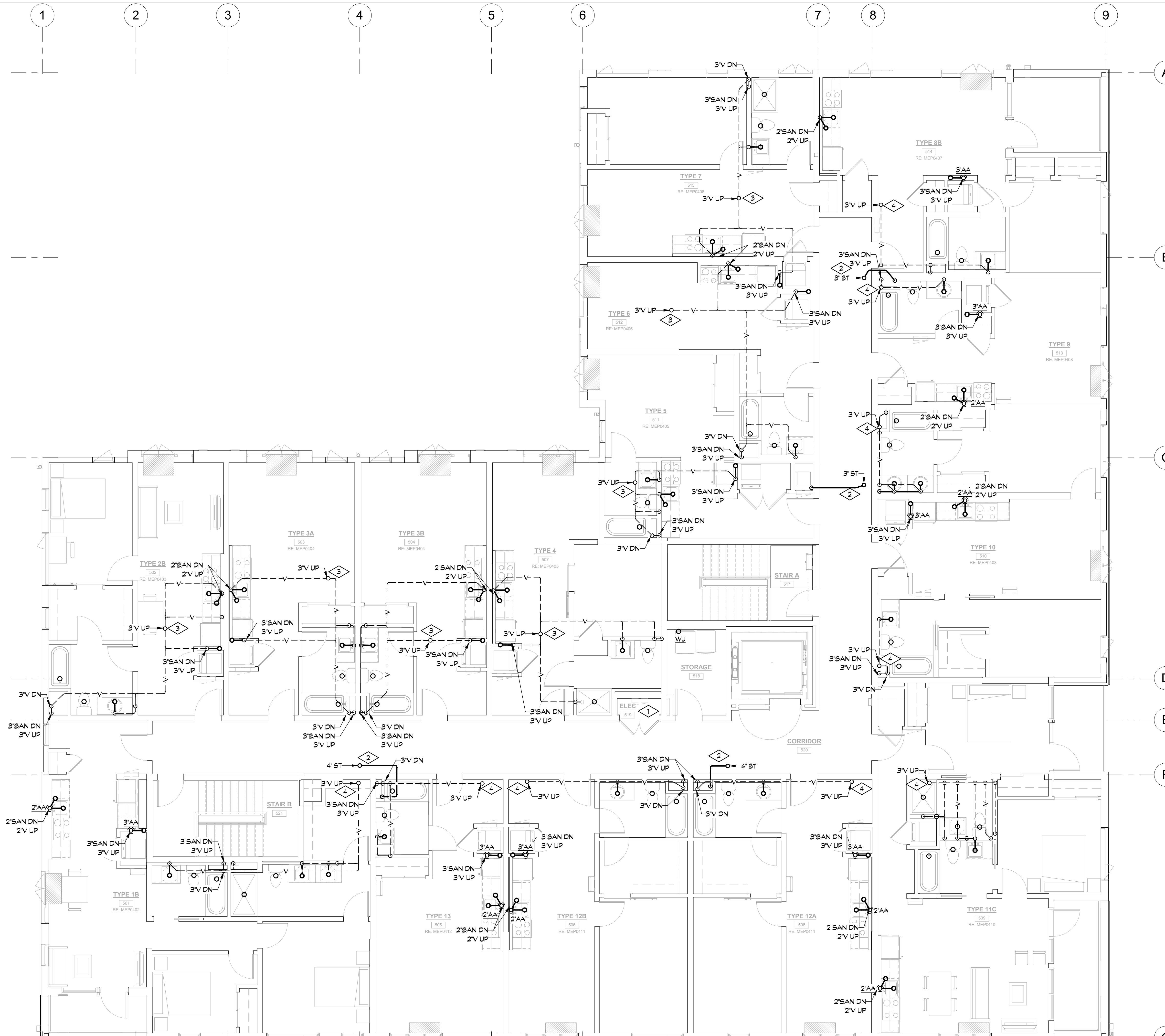
**FOURTH LEVEL SEWER PLAN**

SEAL

DATE: 03.13.2026  
DRAWN BY: TB  
CHECKED BY: MV  
PROJECT NO: 25135

DRAWING NO:

**P0204**



**DETAIL NOTES THIS SHEET**

1. NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM. COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
2. STORM PIPING UP TO ROOF DRAIN ABOVE. SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
3. 3" VENT UP TO VTR IN APPROXIMATE LOCATION SHOWN, SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
4. 3" VENT UP TO SIDEWALL PLUMBING VENT IN APPROXIMATE LOCATION SHOWN, SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayreigler.com		
ARCHITECT		
 <b>KEVIN &amp; ASAKO SPERRY ARCHITECTURE</b> 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**OWNER**

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayreigler.com

**ARCHITECT**

**KEVIN & ASAKO SPERRY ARCHITECTURE**  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

**GENERAL CONTRACTOR**

**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

**CIVIL ENGINEER**

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9494

**LANDSCAPE ARCHITECT**

**STRUCTURAL ENGINEER**

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

**M.E.P. ENGINEERS**

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

**INTERIOR DESIGNER:**

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

**PROJECT LOCATION**

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

**DRAWING TITLE**

**FIFTH LEVEL SEWER PLAN**

**SEAL**

**DATE:**

03.13.2026

**DRAWN BY:**

TB

**CHECKED BY:**

MV

**PROJECT NO:**

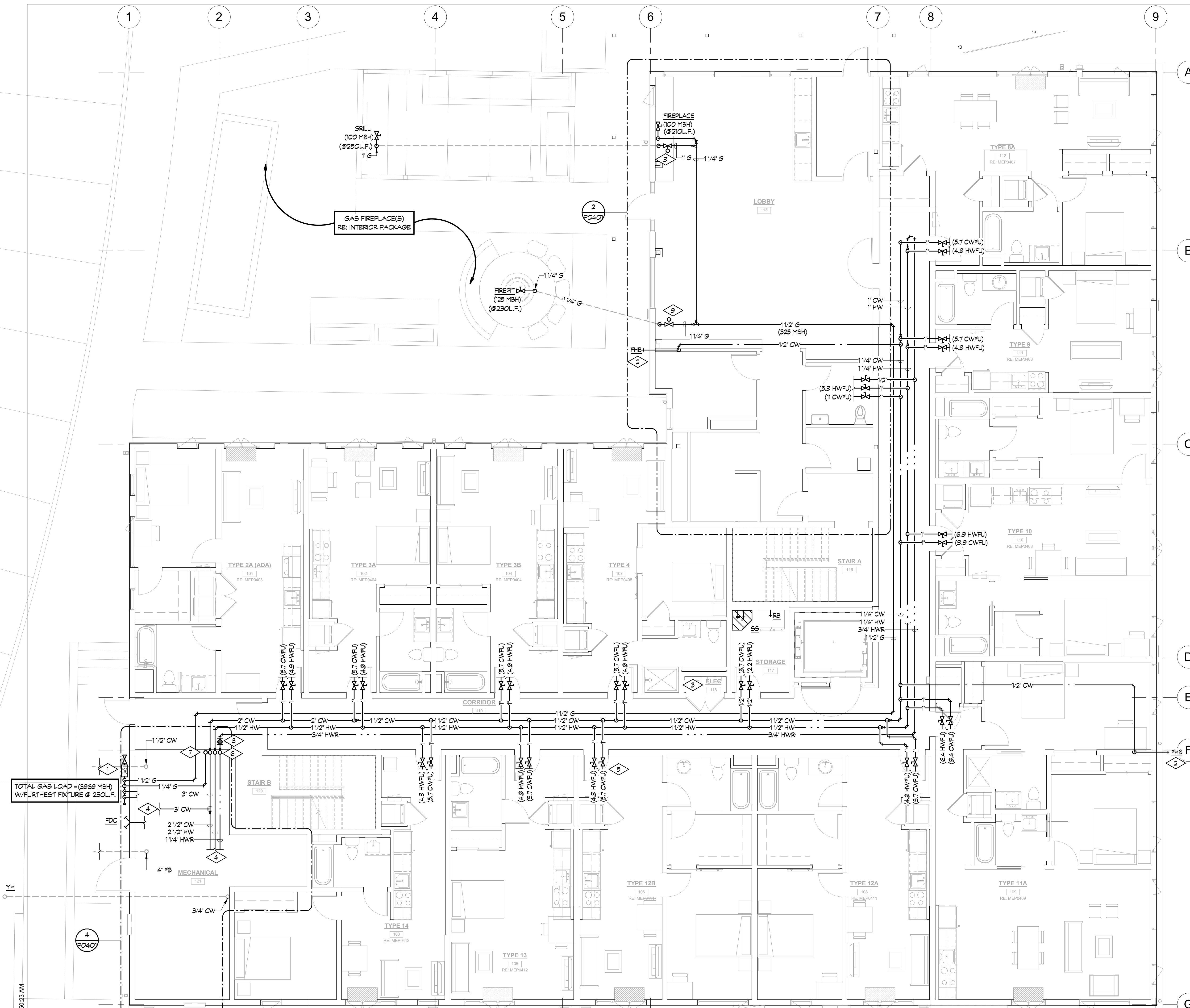
25135

**DRAWING NO:**

**P0205**

**FIFTH LEVEL SEWER PLAN**  
 3/16 = 1'-0"

3/13/2026 8:50:20 AM



**DETAIL NOTES THIS SHEET**

- COORDINATE WITH LOCAL UTILITY COMPANY FOR T.W.C. GAS SERVICE. FIELD VERIFY EXACT METER PLACEMENT WITH UTILITY PROVIDER, NOTIFY ENGINEER IF METER IS RELOCATED FROM LOCATION SHOWN. REGULATORS MUST BE INSTALLED AT APPLIANCES PRIOR TO GAS BEING TURNED ON.
- COORDINATE MOUNTING ELEVATION FOR WALL HYDRANT WITH G.C. AND ARCHITECT.
- NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
- SEE ENLARGED MECHANICAL PIPING PLAN AND CENTRAL HOT WATER PIPING DETAIL.
- HOT/COLD WATER PIPING TO SERVE INDIVIDUAL UNITS. SEE UNIT PLUMBING PLANS FOR CONTINUATION, TYPICAL.
- HOT, COLD & HOT WATER RECIRCULATION RISERS - SEE WATER RISER DETAIL ON SHEET P0201.
- GAS PIPING UP TO SERVE ROOFTOP UNITS. SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
- PROVIDE SELF-ACTING THERMOSTATIC RECIRCULATION VALVE, CIRCUITSOLVER CS-3/4-115 IN ACCESSIBLE LOCATION.
- GAS ZONE VALVE BOX, ROUTE GAS PIPING TO FIREPIT. PROVIDE ISOLATION VALVE WITH ACCESS IN WALL. PROVIDE TIMER SWITCH ON FIREPIT, COORDINATE TIMER SWITCH REQUIREMENTS AND LOCATION WITH ELECTRICAL CONTRACTOR.

APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

OWNER  
**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT  
**KASA**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9494

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

M.E.P. ENGINEERS


**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487  
 DRAWING TITLE

**GROUND LEVEL PIPING PLAN**

SEAL:  DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

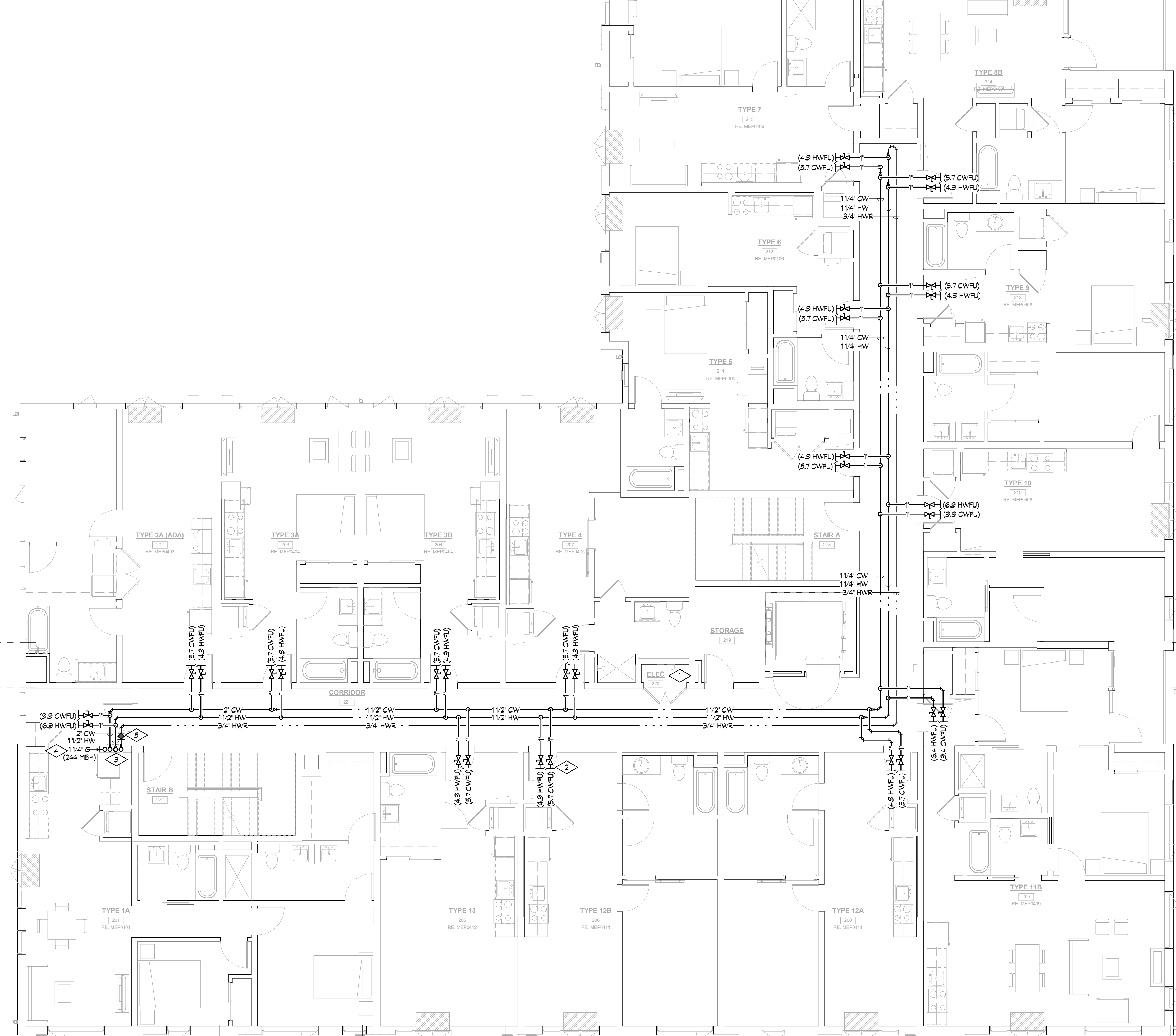
DRAWING NO: **P0211**  
 COPYRIGHT 2019

3/13/2026 8:50:23 AM

**GROUND LEVEL PIPING PLAN**  
 3/16" = 1'-0"

1 2 3 4 5 6 7 8 9

A B C D E F G



**DETAIL NOTES THIS SHEET**

1. NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
2. HOT/COLD WATER PIPING TO SERVE INDIVIDUAL UNITS. SEE UNIT PLUMBING PLANS FOR CONTINUATION. TYPICAL.
3. HOT, COLD & HOT WATER RECIRCULATION RISERS - SEE WATER RISER DETAIL ON SHEET P0201.
4. GAS PIPING UP TO SERVE ROOFTOP UNITS. SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
5. PROVIDE SELF-ACTING THERMOSTATIC RECIRCULATION VALVE, CIRCUITOLVER CS-3/4-115 IN ACCESSIBLE LOCATION.

APPROVAL STAMPS:

No.	Date	Description

**SUBMISSIONS & REVISIONS**

OWNER  
**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayreigler.com

ARCHITECT  
**KEVIN & ASAKO SPERRY ARCHITECTURE**  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9494

LANDSCAPE ARCHITECT  
  
 STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE  
**SECOND LEVEL PIPING PLAN**

SEAL  
  
 DATE: 03.13.2026  
 DRAWN BY: TB  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO:  
**P0212**  
 COPYRIGHT 2019

**SECOND LEVEL PIPING PLAN**  
 3/16" = 1'-0"

3/13/2026 8:50:26 AM

**DETAIL NOTES THIS SHEET**

- NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
- HOT&COLD WATER PIPING TO SERVE INDIVIDUAL UNITS. SEE UNIT PLUMBING PLANS FOR CONTINUATION. TYPICAL.
- HOT, COLD & HOT WATER RECIRCULATION RISERS - SEE WATER RISER DETAIL ON SHEET P0201.
- GAS PIPING UP TO SERVE ROOFTOP UNITS. SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
- PROVIDE SELF-ACTING THERMOSTATIC RECIRCULATION VALVE, CIRCUITSOLVER CS-3/4-1B IN ACCESSIBLE LOCATION.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
MAY REIGLER PROPERTIES 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
KASA KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T.312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
DENEUE CONSTRUCTION 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
LANDMARK ENGINEERING 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
KL&A ENGINEERS & BUILDERS 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
BOULDER ENGINEERING 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
JOHNSON NATHAN STROHE 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**OWNER**

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

**ARCHITECT**  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T.312.636.3248 / 312.636.4252  
www.kasa-arch.com

**GENERAL CONTRACTOR**  
**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

**CIVIL ENGINEER**  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

**LANDSCAPE ARCHITECT**


**STRUCTURAL ENGINEER**  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

**M.E.P. ENGINEERS**  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

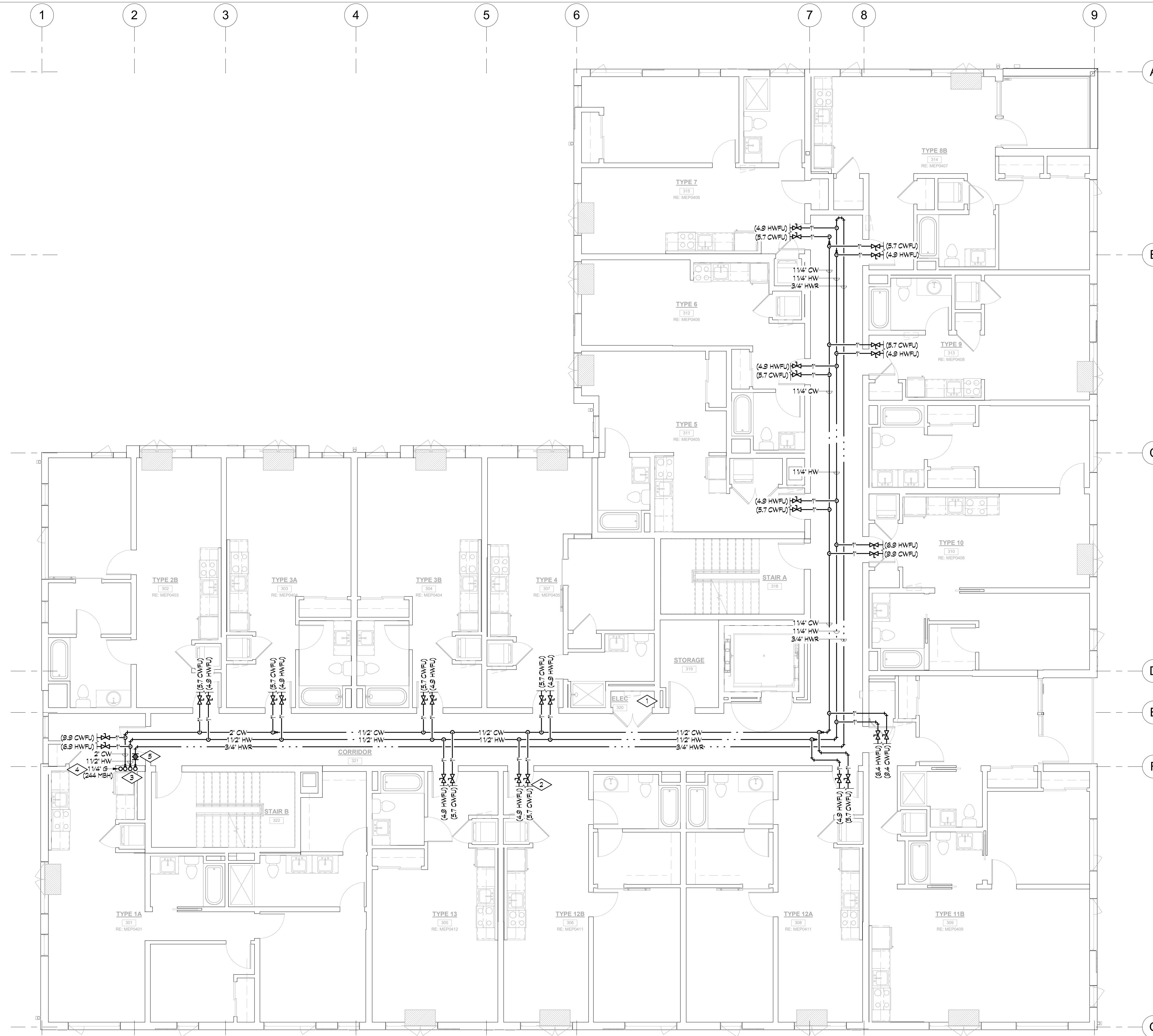
**INTERIOR DESIGNER:**  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

**PROJECT LOCATION**  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

**DRAWING TITLE**  
**THIRD LEVEL PIPING PLAN**

**SEAL**  
  
**DATE:** 03.13.2026  
**DRAWN BY:** TB  
**CHECKED BY:** MV  
**PROJECT NO:** 25135

**DRAWING NO:**  
**P0213**



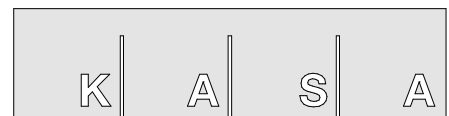

**THIRD LEVEL PIPING PLAN**  
3/8" = 1'-0"

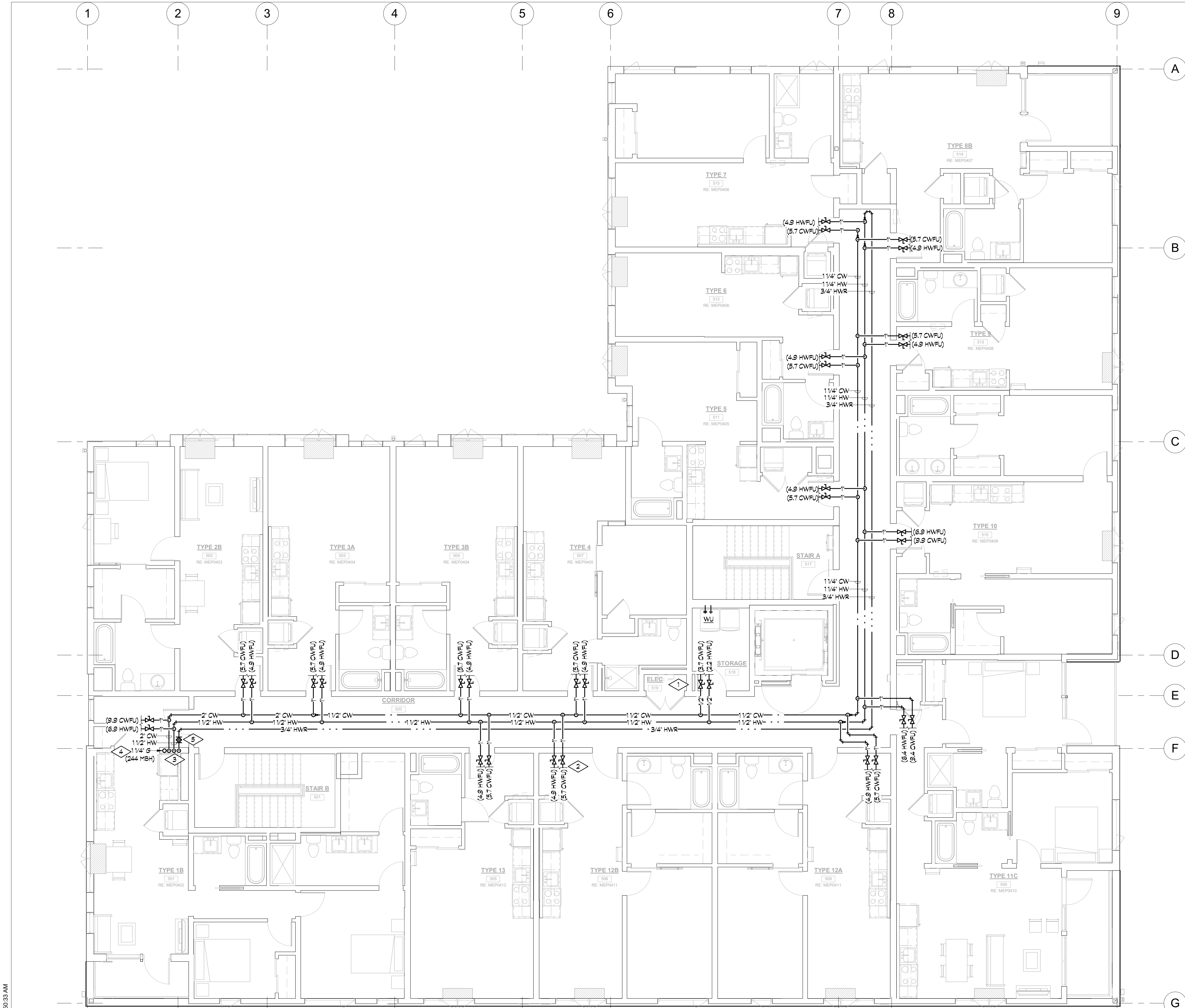


**DETAIL NOTES THIS SHEET**

1. NO PIPING SHALL BE ROUTED OVER ELECTRICAL ROOM, COORDINATE ALL PIPING ROUTING IN THIS AREA TO AVOID ELECTRICAL ROOM.
2. HOT/COLD WATER PIPING TO SERVE INDIVIDUAL UNITS. SEE UNIT PLUMBING PLANS FOR CONTINUATION. TYPICAL.
3. HOT, COLD & HOT WATER RECIRCULATION RISERS - SEE WATER RISER DETAIL ON SHEET P0201.
4. GAS PIPING UP TO SERVE ROOFTOP UNITS. SEE MECHANICAL ROOF PLAN ON SHEET M0206 FOR CONTINUATION.
5. PROVIDE SELF-ACTING THERMOSTATIC RECIRCULATION VALVE, CIRCUITSOLVER CS-3/4-115 IN ACCESSIBLE LOCATION.

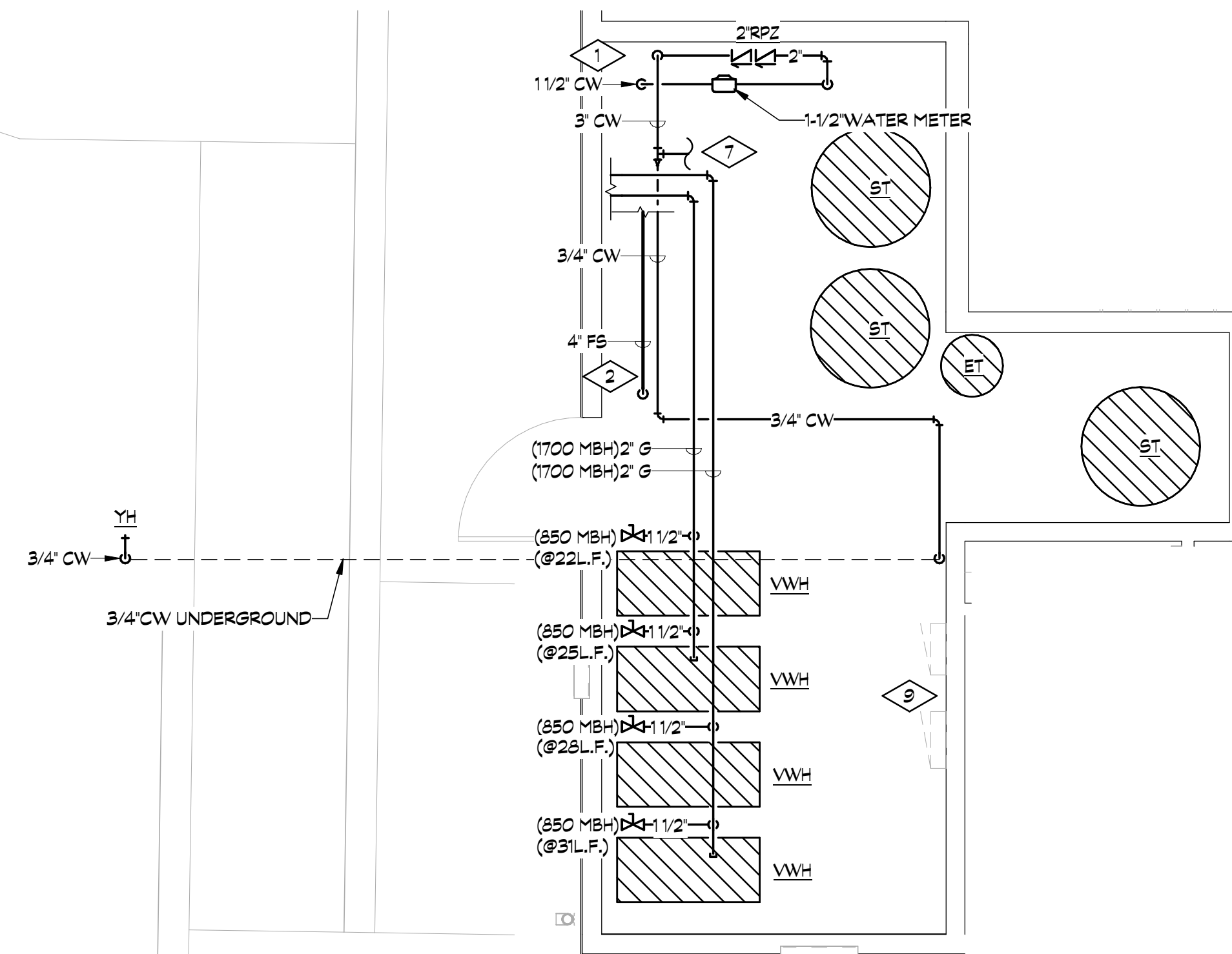
APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
 <b>KEVIN &amp; ASAKO SPERRY ARCHITECTURE</b> 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487		
DRAWING TITLE		
<b>FIFTH LEVEL PIPING PLAN</b>		
SEAL	DATE:	
	03.13.2026	
	DRAWN BY:	TB
	CHECKED BY:	MV
	PROJECT NO:	25135
DRAWING NO:		
<b>P0215</b>		

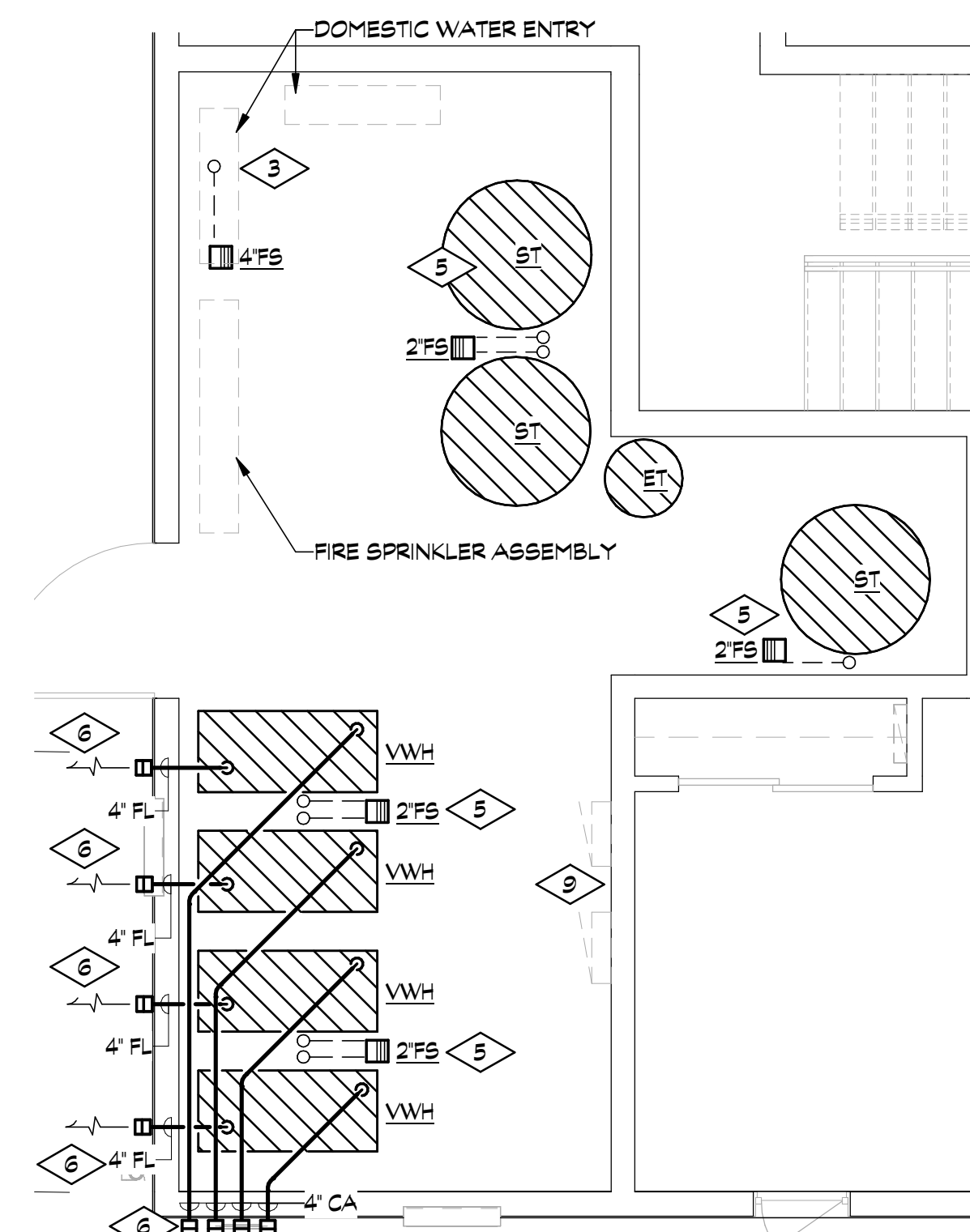


**FIFTH LEVEL PIPING PLAN**  
3/8" = 1'-0"

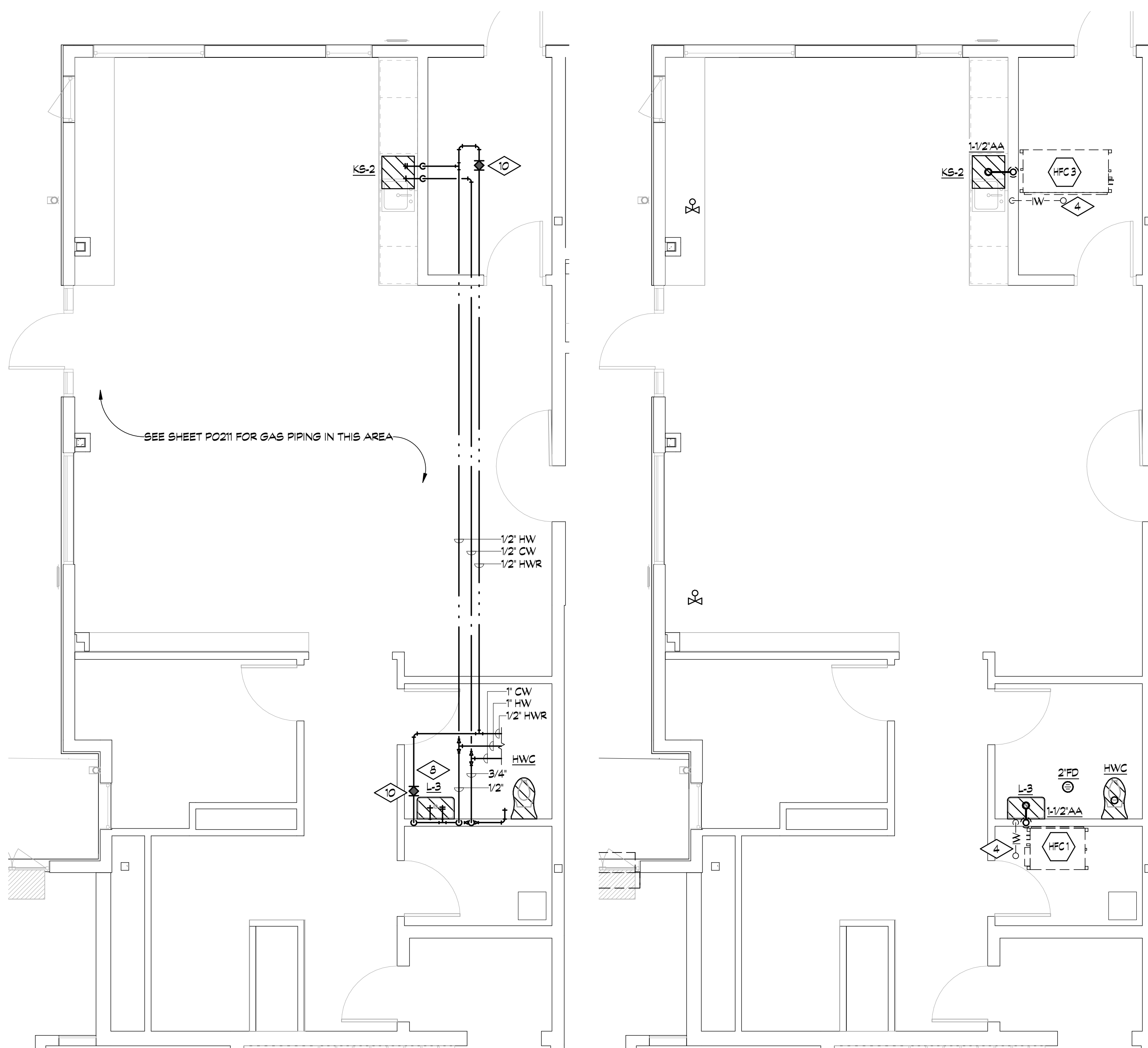
3/13/2026 8:50:33 AM



4 ENLARGED MECHANICAL ROOM PIPING PLAN  
1/4" = 1'-0"



3 ENLARGED MECHANICAL ROOM SEWER PLAN  
1/4" = 1'-0"



2 ENLARGED LOBBY PIPING PLAN  
1/4" = 1'-0"

1 ENLARGED LOBBY SEWER PLAN  
1/4" = 1'-0"

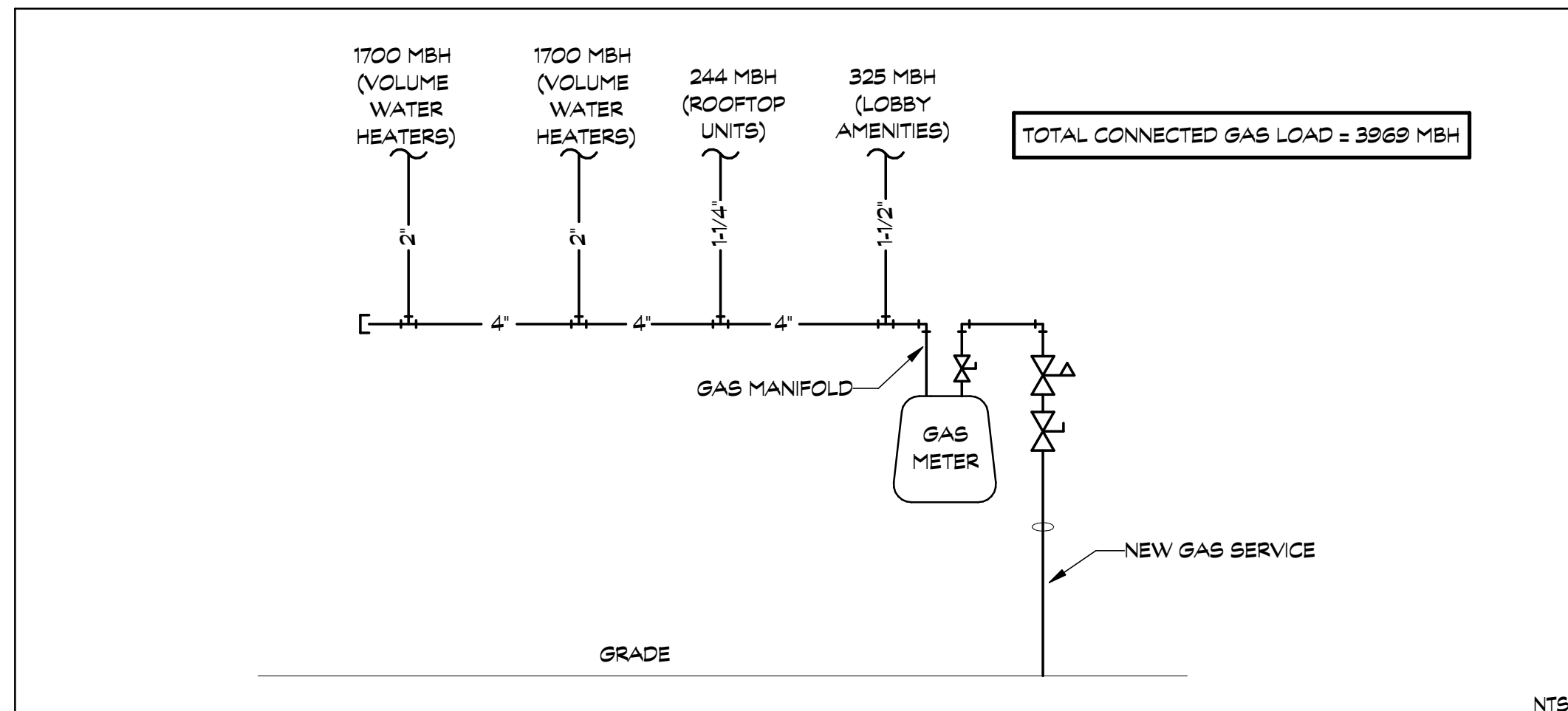
**DETAIL NOTES THIS SHEET**

1. EXTEND AND CONNECT NEW DOMESTIC COLD WATER PIPING TO CIVIL P.O.C. FIELD VERIFY EXACT LOCATION AND CONNECTION. BASIS OF DESIGN IS EXTERIOR METER PIT WITH 2" TAP/METER ASSEMBLY WITH INCREASE IN SERVICE SIZE TO 3" AT A POINT 50' DOWNSTREAM OF METER FULL LENGTH TO BUILDING WATER ENTRY.
2. EXTEND AND CONNECT NEW FIRE PROTECTION PIPING TO CIVIL P.O.C. FIELD VERIFY EXACT LOCATION AND CONNECTION. COORDINATE FIRE RISER ROOM LOCATION WITH G.C. COORDINATE FDC LOCATION WITH AHJ. SPRINKLER DESIGN TO BE PERFORMED BY NFPA CERTIFIED DESIGNER, SHOP DRAWINGS BY DEFERRED SUBMITTAL.
3. ROUTE DRAIN FROM RPZ TO FLOOR SINK IN WATER ENTRY, DRAIN SIZE EQUAL TO RPZ SIZE.
4. ROUTE INDIRECT WASTE FROM EQUIPMENT TO SINK TAILPIECE.
5. ROUTE INDIRECT WASTE FROM EQUIPMENT TO FLOOR DRAIN/SINK.
6. FLUE & COMBUSTION AIR FROM WATER HEATERS OUT THROUGH EXTERIOR WALL. PIPING TO BE SCHEDULE 40 PVC OR CPVC, ROUTED AND TERMINATED PER MANUFACTURER'S REQUIREMENTS.
7. SEE CENTRAL HOT WATER PIPING DIAGRAM ON SHEET P0301 FOR DETAILS IN THIS AREA.
8. PROVIDE ASSE 1016, MIXING VALVE (WATTS USG-B) AND CHECK VALVE ON EACH WATER LINE. ADJUST VALVE TO PROVIDE 110°F WATER FOR HAND SINK. LOCATE IN ACCESSIBLE LOCATION BELOW SINK. SEE POINT OF USE DETAIL ON SHEET P0301.
9. NO PIPING SHALL BE ROUTED OVER ELECTRICAL PANEL, COORDINATE EXACT PIPE ROUTING IN FIELD TO AVOID ROUTING PIPING OVER PANEL.
10. PROVIDE SELF-ACTING THERMOSTATIC RECIRCULATION VALVE, CIRCUITSOLVER CS-1/2-115 IN ACCESSIBLE LOCATION.

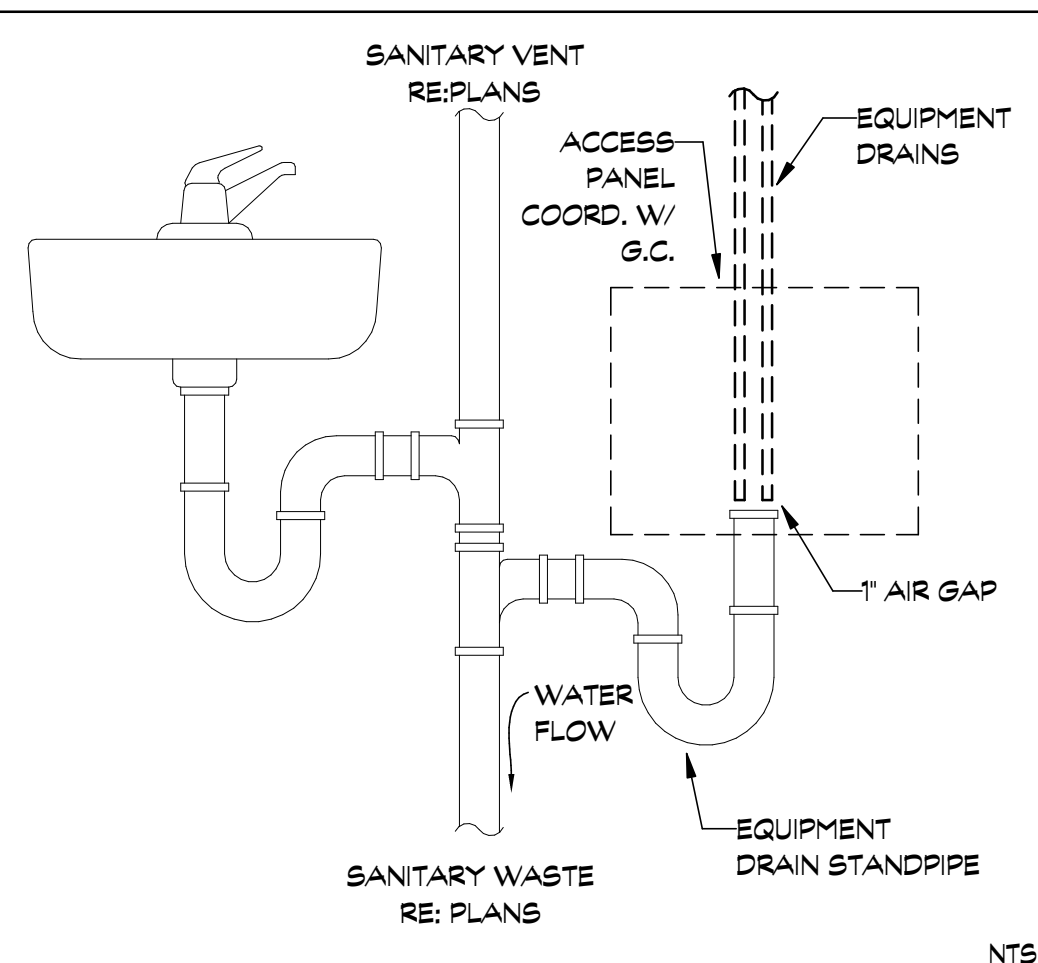
APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayreigler.com		
ARCHITECT		
KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487 DRAWING TITLE		
<b>ENLARGED PLUMBING PLANS</b>		
SEAL	DATE:	
	03.13.2026	
	DRAWN BY:	
	TB	
	CHECKED BY:	
	MV	
PROJECT NO:		
25135		
DRAWING NO:		
<b>P0401</b>		

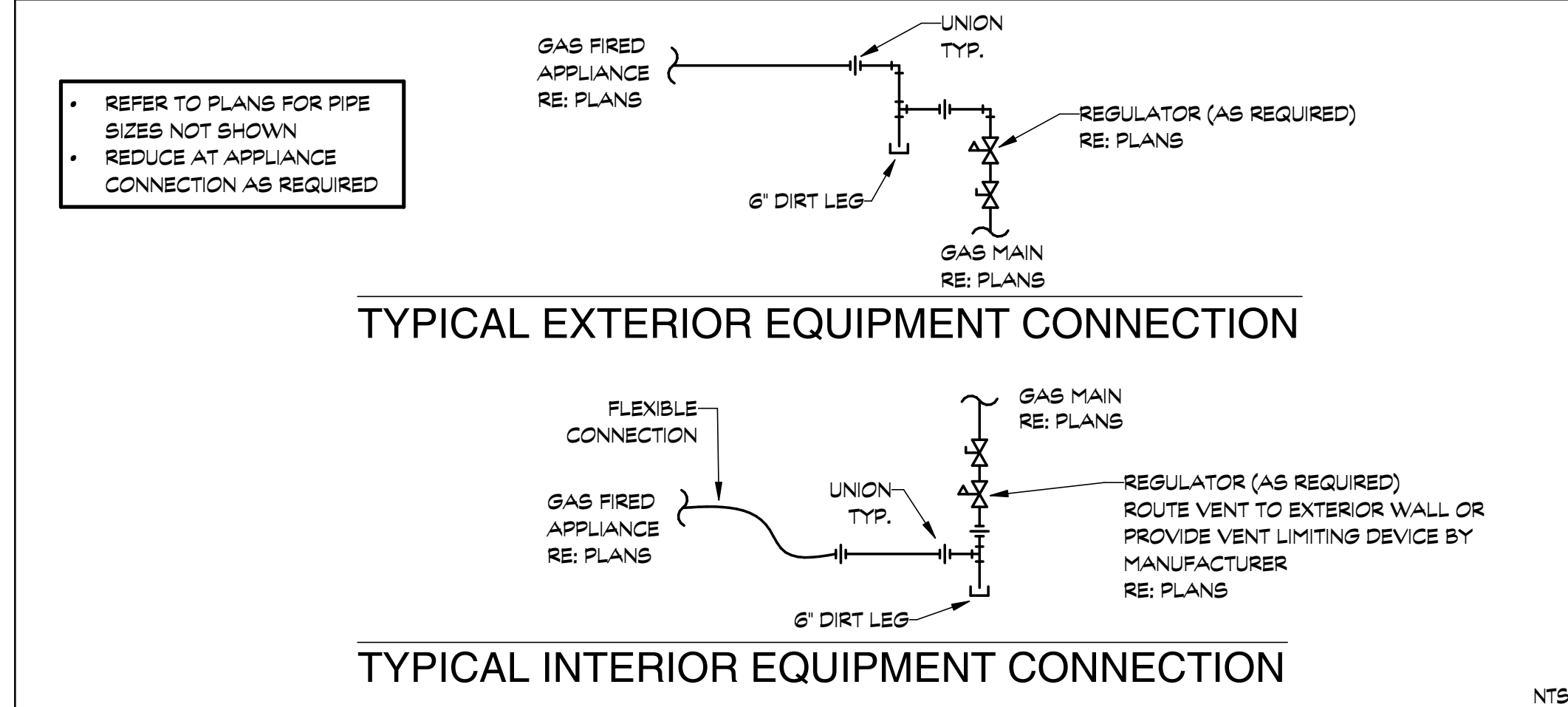




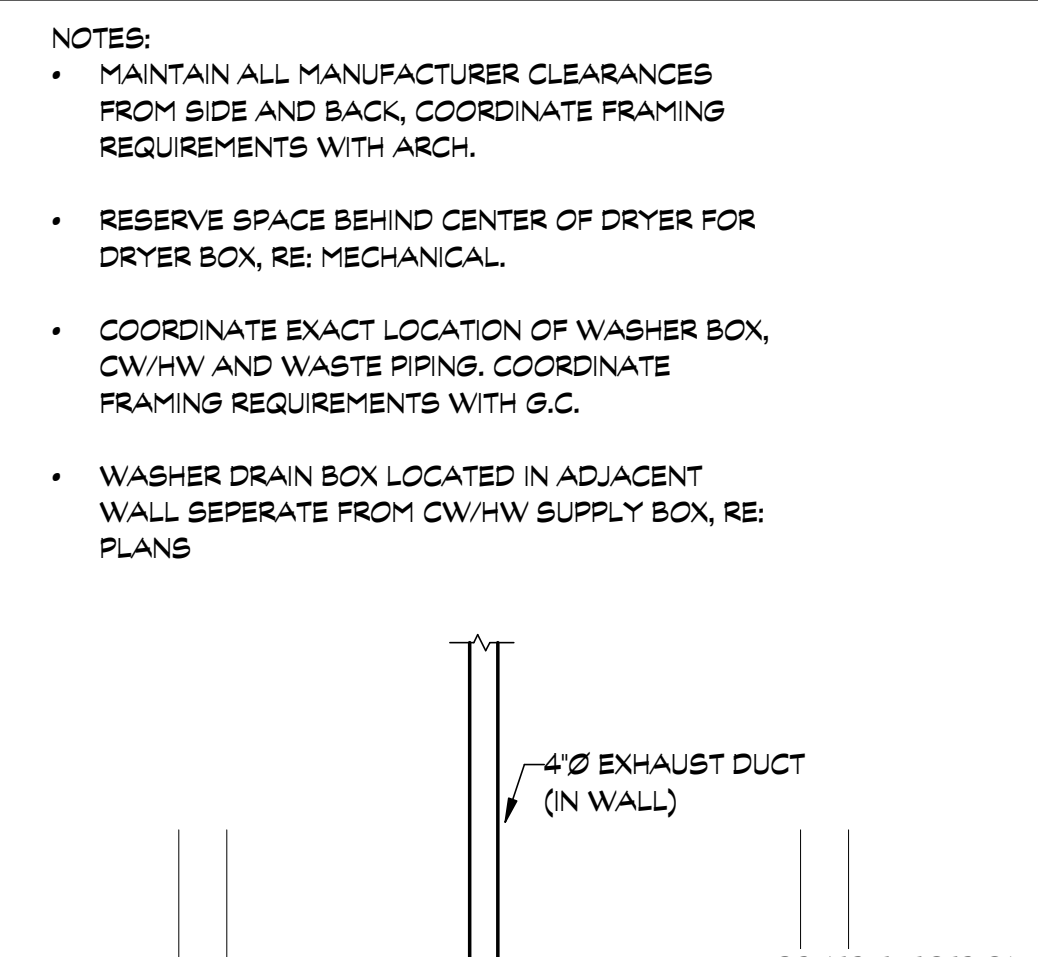
**GAS MANIFOLD AND METER DIAGRAM** 12



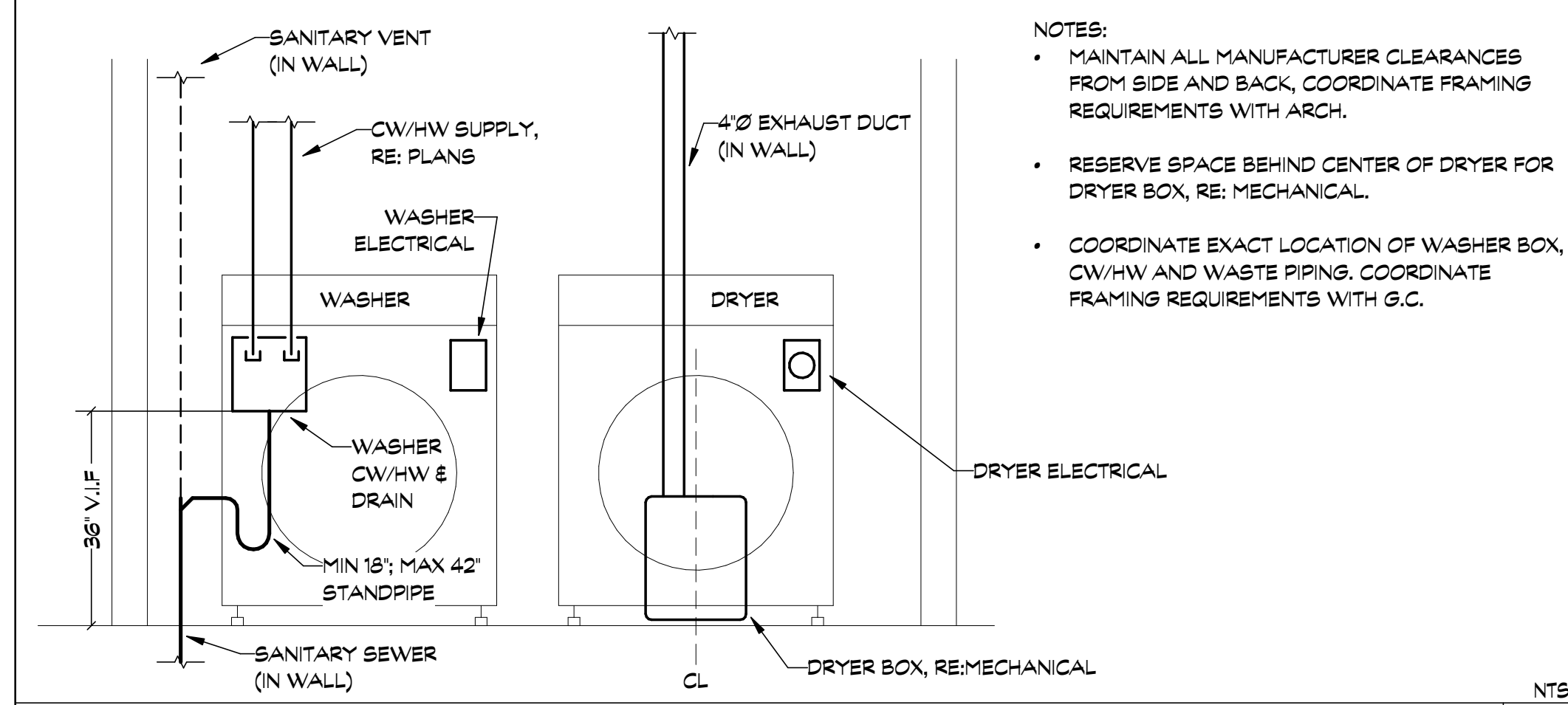
**EQUIPMENT DRAIN DIAGRAM** 11



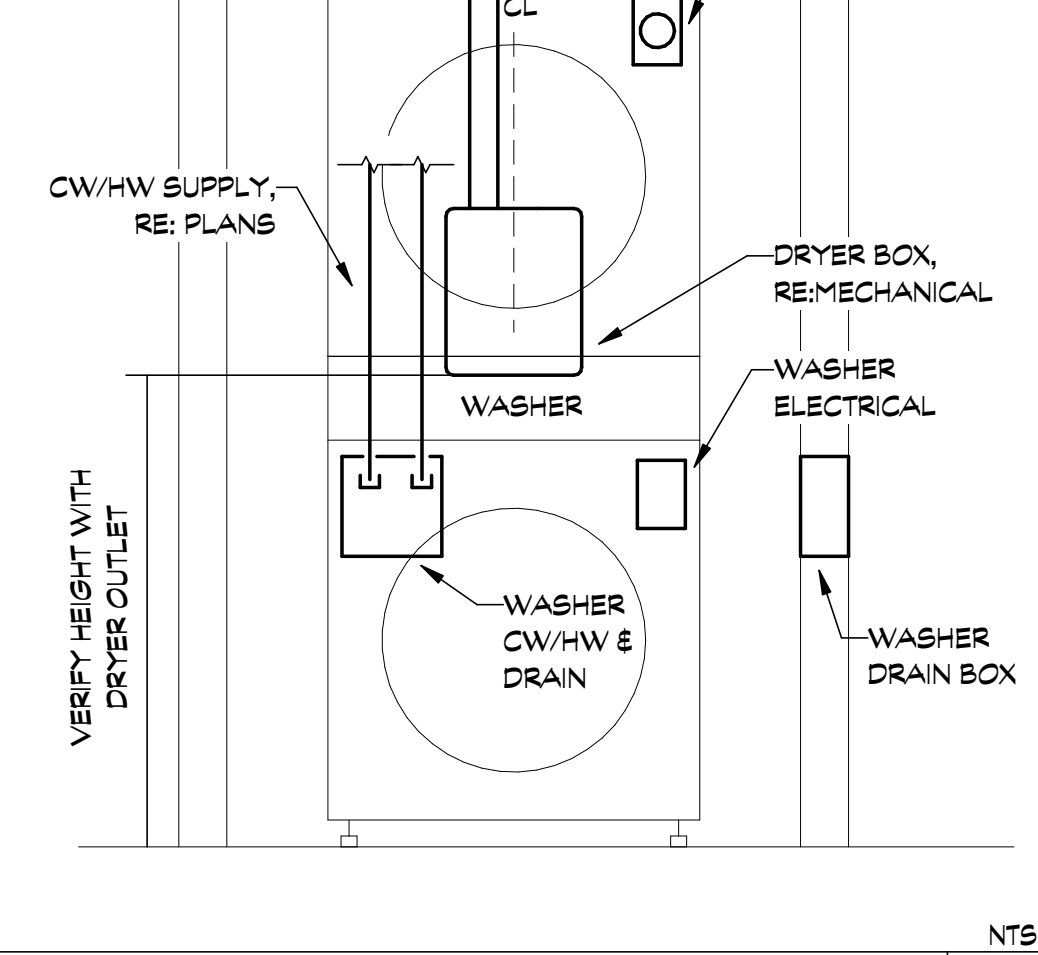
**GAS EQUIPMENT CONNECTION DIAGRAM** 10



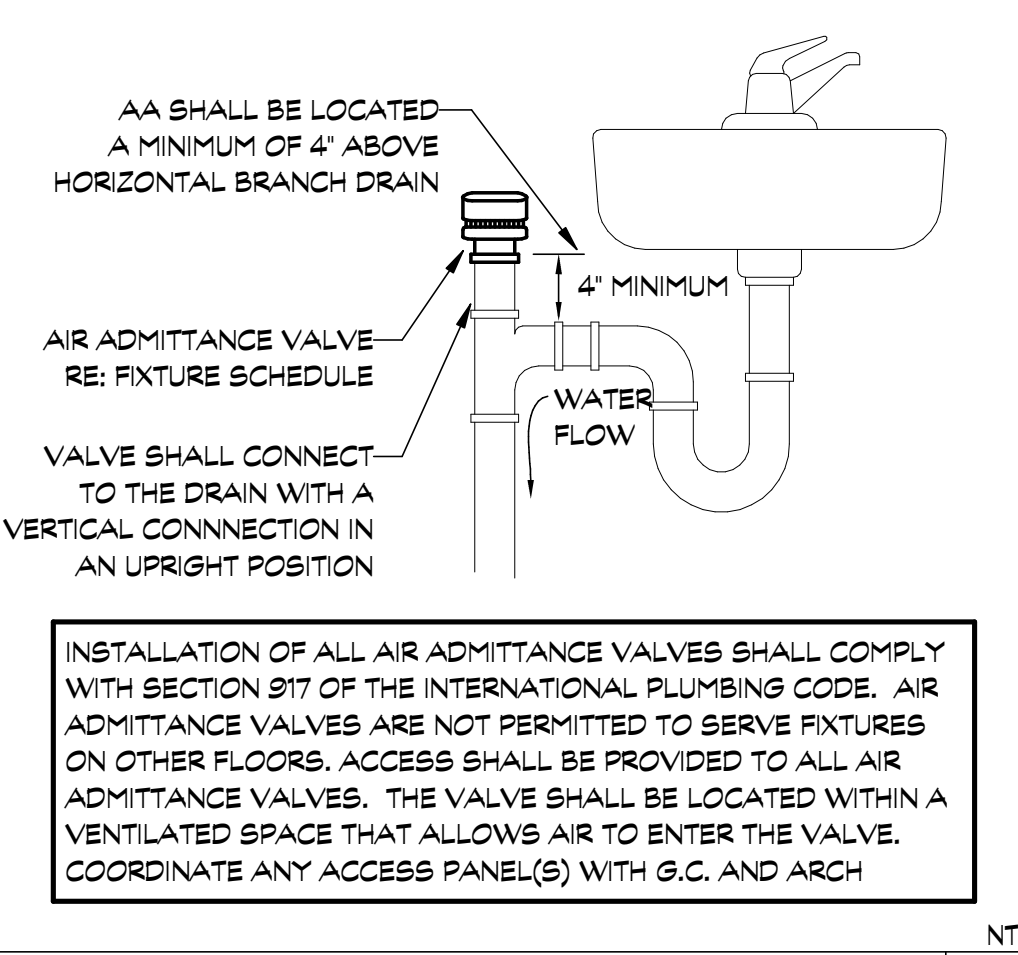
**PEX MANIFOLD DIAGRAM** 9



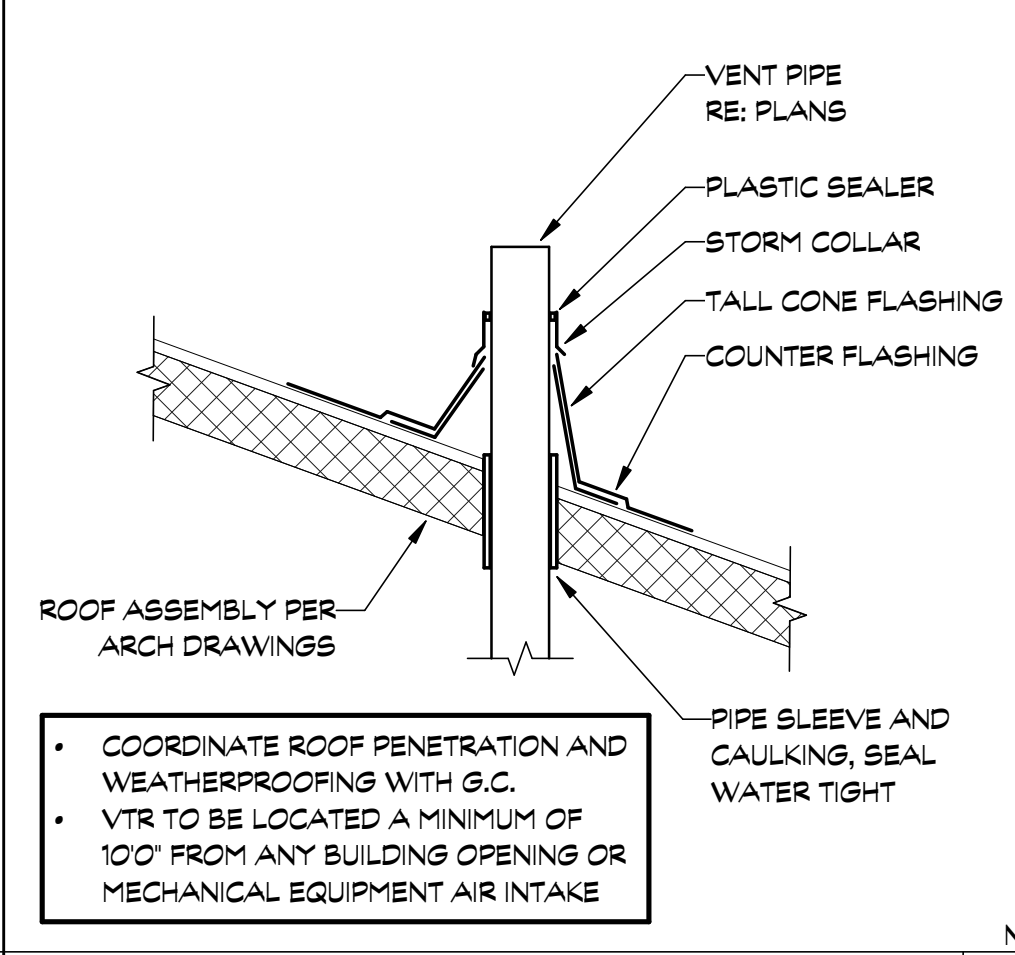
**WASHER/DRYER DIAGRAM (SIDE BY SIDE)** 8



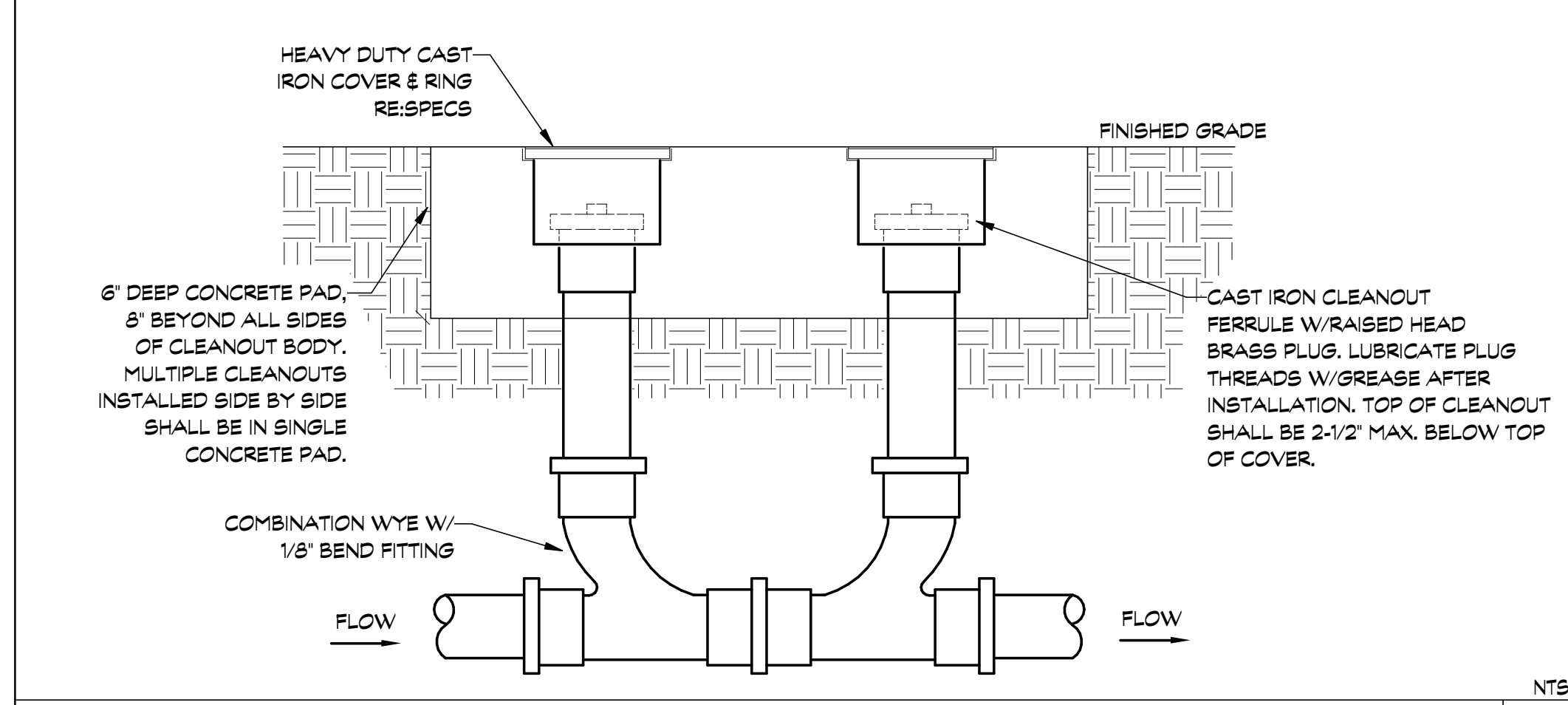
**WASHER/DRYER DIAGRAM (STACKED)** 7



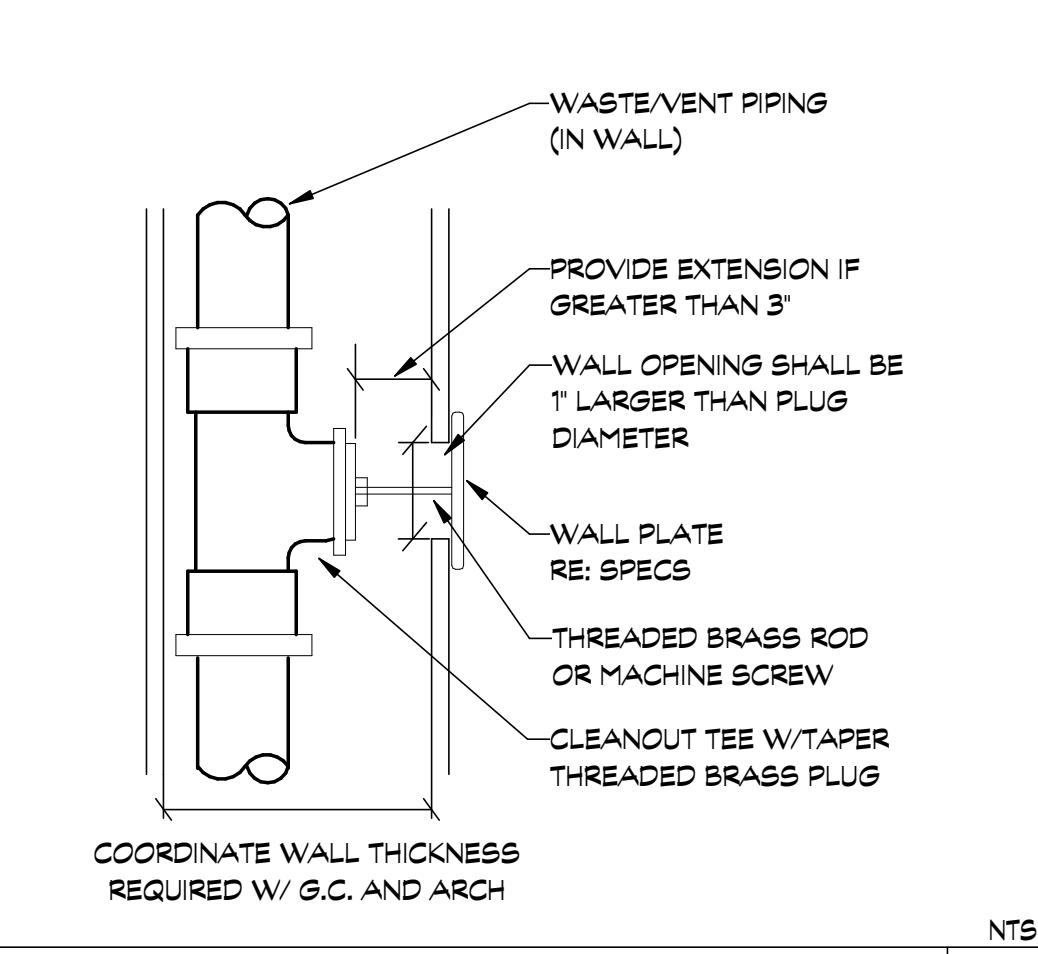
**AIR ADMITTANCE VALVE DIAGRAM** 6



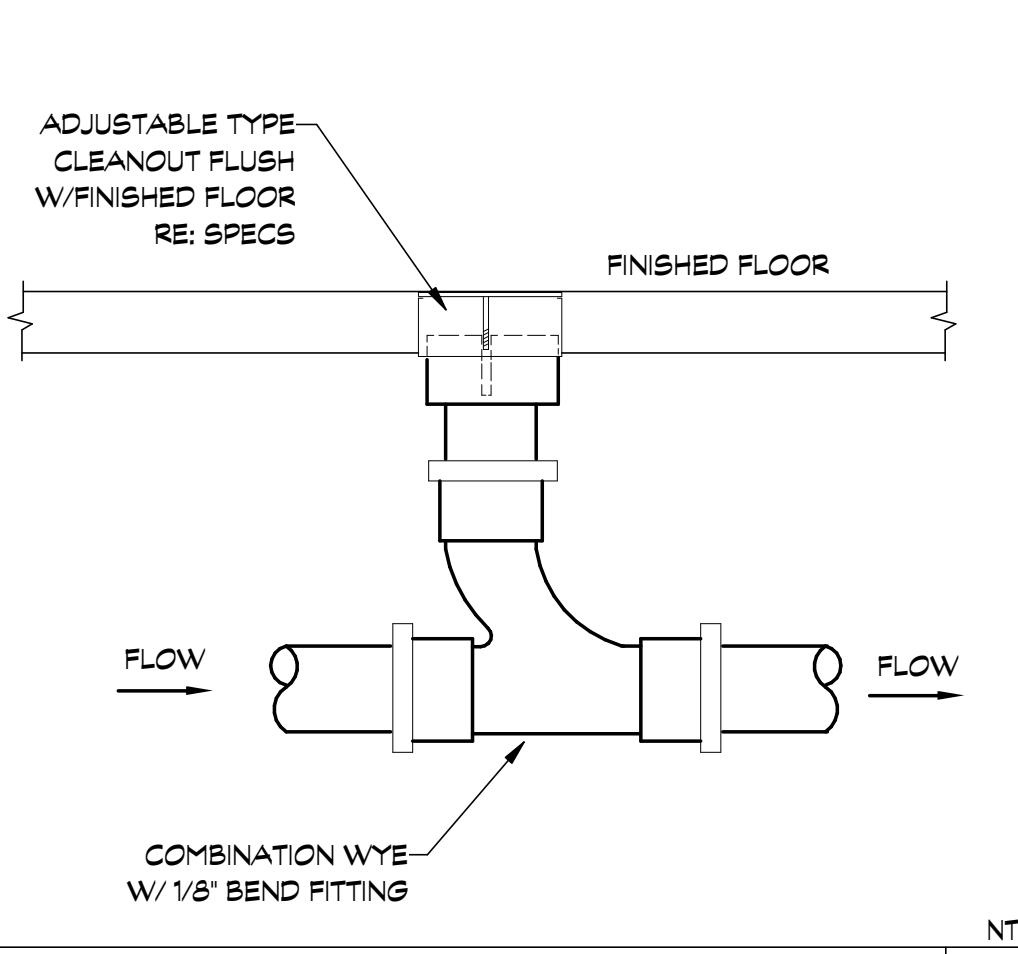
**VENT THRU ROOF (VTR) DIAGRAM** 5



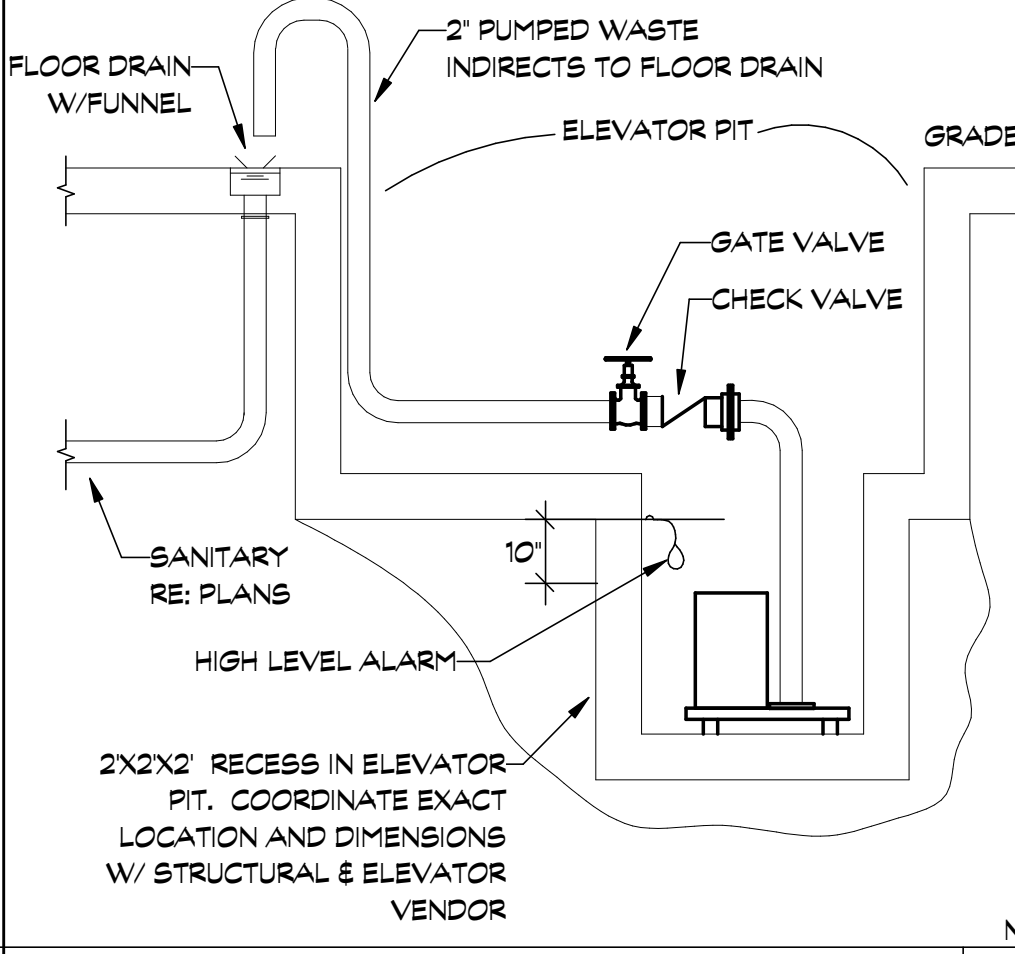
**TWO-WAY CLEANOUT DIAGRAM** 4



**WALL CLEANOUT DIAGRAM** 3



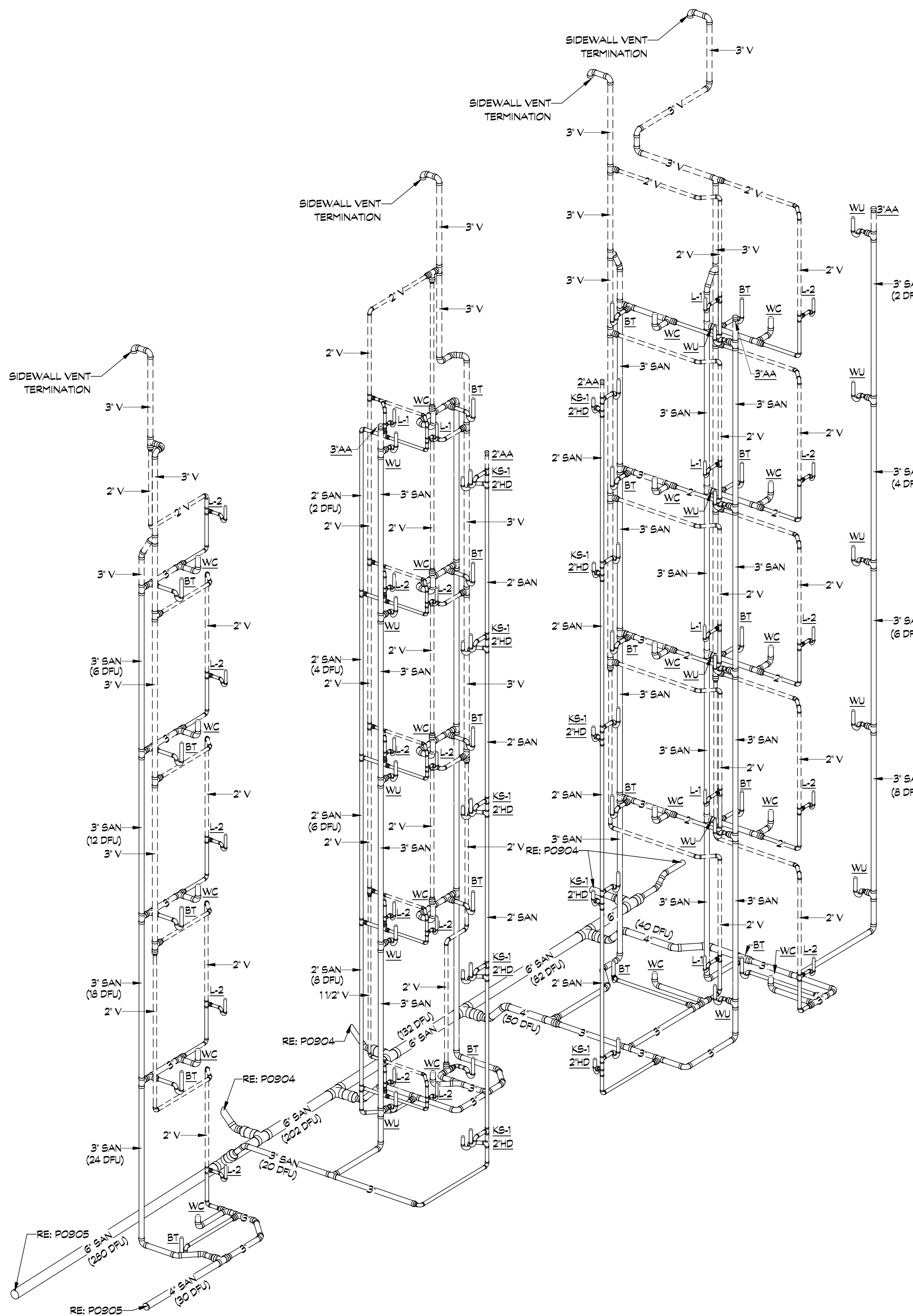
**FLOOR CLEANOUT DIAGRAM** 2



**ELEVATOR SUMP PUMP DIAGRAM** 1

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayreigler.com		
ARCHITECT		
<b>K A S A</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487 DRAWING TITLE		
<b>PLUMBING DETAILS</b>		
SEAL	DATE:	03.13.2026
	DRAWN BY:	TB
	CHECKED BY:	MV
	PROJECT NO:	25135
	DRAWING NO:	<b>P0902</b>



**PLUMBING FIXTURE PIPE SIZES**

KEY	WASTE SIZE	VENT SIZE
HWC, WC	3"	2"
L-1, L-2, L-3	2"	1 1/2"
KS-1, KS-2	2"	1 1/2"
BT	2"	1 1/2"
SH	2"	1 1/2"
SS	3"	2"
WU	2"	1 1/2"
2" FD/S	2"	1 1/2"
3" FD/S	3"	2"
4" FD/S	4"	2"

ALL PIPE SIZES AS INDICATED EXCEPT WHERE NOTED.  
FOR BACK TO BACK CONDITIONS, LARGEST DRAIN & VENT SIZE APPLIES.

APPROVAL STAMPS:

No.	Date	Description

**SUBMISSIONS & REVISIONS**

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayreigler.com

ARCHITECT  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T: 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T: 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T: 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T: 303.444.6038

INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T: 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE  
**DW&V ISOMETRIC - NORTHEAST**

SEAL: DATE: 03.13.2026  
DRAWN BY: TB  
CHECKED BY: MV  
PROJECT NO: 25135

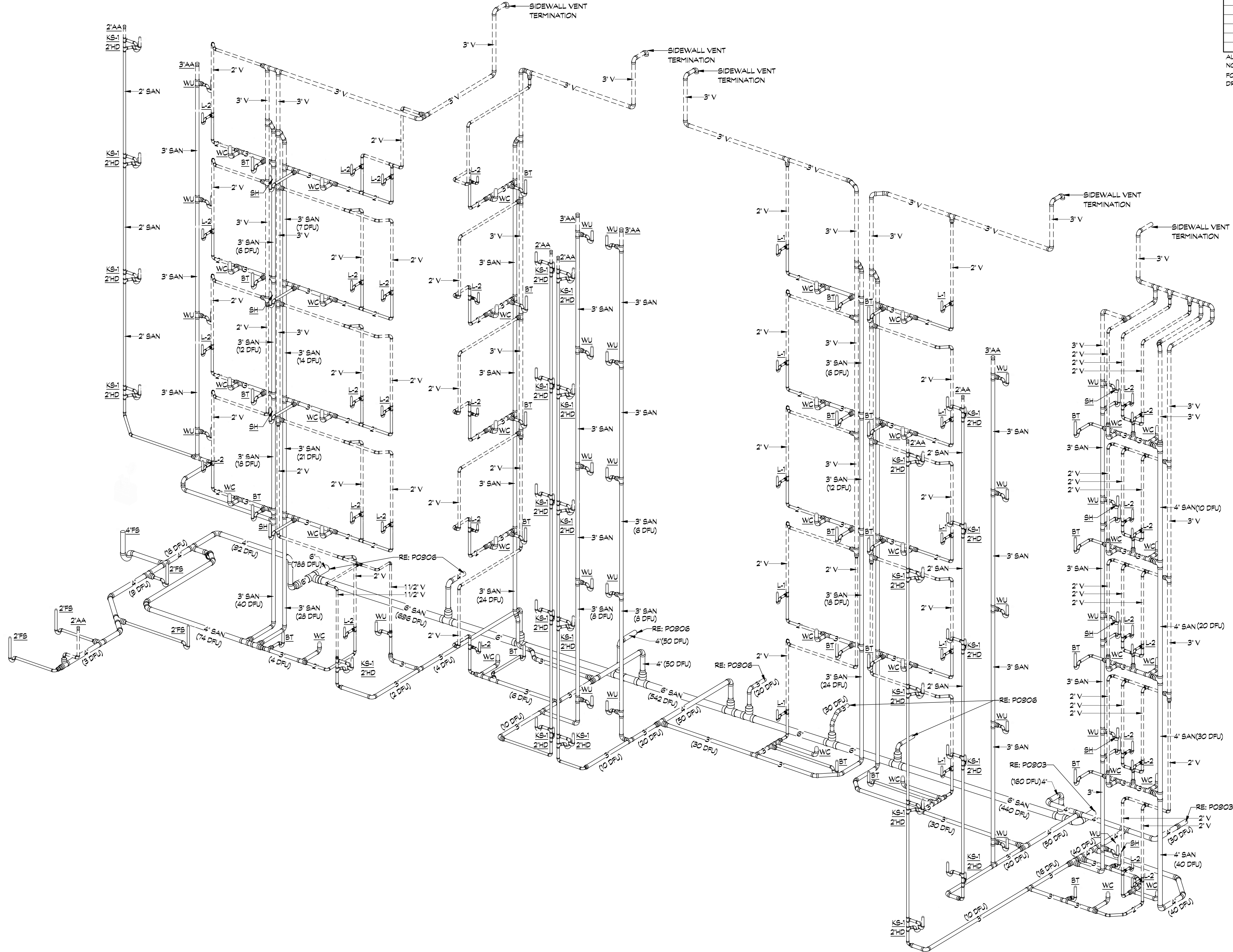
DRAWING NO:  
**P0903**

**1 DW&V ISOMETRIC - NORTHEAST**



KEY	WASTE SIZE	VENT SIZE
HWC, WC	3"	2"
L-1, L-2, L-3	2"	1 1/2"
KS-1, KS-2	2"	1 1/2"
BT	2"	1 1/2"
SH	2"	1 1/2"
SS	3"	2"
WU	2"	1 1/2"
2' FD/S	2"	1 1/2"
3' FD/S	3"	2"
4' FD/S	4"	2"

ALL PIPE SIZES AS INDICATED EXCEPT WHERE NOTED.  
FOR BACK TO BACK CONDITIONS, LARGEST DRAIN & VENT SIZE APPLIES.



① DW&V ISOMETRIC - SOUTHEAST

APPROVAL STAMPS:

No. Date Description  
SUBMISSIONS & REVISIONS

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT  
**KEVIN & ASAKO SPERRY ARCHITECTURE**  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9494

LANDSCAPE ARCHITECT  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE  
**DW&V ISOMETRIC -  
SOUTHEAST**

SEAL  
**PROFESSIONAL ENGINEER**  
38983  
03/13/2026

DATE: 03.13.2026  
DRAWN BY: TB  
CHECKED BY: MV  
PROJECT NO: 25135

DRAWING NO:  
**P0905**





### DIVISION 21 - FIRE SUPPRESSION

#### SECTION 21 01 00 - COMMON WORK RESULTS FOR FIRE SUPPRESSION

- 1.01 **WORK INCLUDED**
- A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Fire Sprinkler Contractor. The general conditions of the specifications apply and are included in this part of this section.
1. Fire sprinkler systems
- 1.02 **SEE SECTION 22 05 00 FOR BASIC MATERIALS AND METHODS**

#### SECTION 21 13 00 - FIRE SUPPRESSION SPRINKLER SYSTEM

- 2.01 **WORK INCLUDED**
- A. Provide complete automatic fire protection systems, including but not limited to inside piping, sprinkler heads, valves, hangers and supports, sleeves, fire department connections and accessories, fire hose cabinets, valves. Entire installation shall be as required by the local authorities. Consult with local authorities to determine all local requirements before submitting a bid.
- The sprinkler system(s) shall be as follows: Wet system throughout.
  - Secure and pay for all necessary permits and certificates of inspection, and present to Owner with the signed certificates of final inspection.
  - Coordinate this work with all other trades so as to have a minimum of interference. INSTALLATION SHALL NOT BEGIN UNTIL DUCTWORK IS INSTALLED OR WRITTEN AUTHORIZATION IS MADE BY THE OWNER.
  - Accomplish all necessary cutting and patching for installation of piping and equipment, and provide all cutting as directed by Architect. Where necessary to cut chases in walls, reinforce walls as directed. After work is installed, patch holes to match original finish.
  - The system design including pipe sizing and location, configuration of branches and head connections, shall accommodate the installation of up/down heads in all areas which may or may not have a dropped ceiling.
- F. RELATED WORK: Basic materials and methods: Section 22 05 00.

- 2.02 **QUALITY ASSURANCE**
- A. Sprinkler equipment and installation to be approved by local fire authority.
- B. Provide a complete automatic fire protection system as required. System shall be complete in all respects and in accordance with all applicable codes, ordinances, International Building Code, and NFPA Volume 2, Section 13 and NFPA Volume 2, Section 14.
- C. The system shall be installed by a firm regularly engaged in the design and installation of automatic sprinkler systems in accordance with the requirements of the National Board of Fire Underwriters. Architect may require evidence to support the above qualifications and may reject any proposed installer who cannot show suitable experience.
- D. All materials and equipment used in the installation of the sprinkler system shall be as approved in the Underwriters' Laboratories' list of inspected fire protection equipment and materials, or the Factory Mutual Laboratories' list of approved equipment and fire protection devices involving fire hazard, and shall be the latest product of the manufacturer.

- 2.03 **SUBMITTALS**
- A. Submit shop drawings showing proposed layout of Fire Protection System, showing actual equipment to be used, complete with such dimensions as are required to accurately install the system, drawn to a minimum scale of 1/8" equals 1'0". Drawings shall be approved by Underwriters and local authority before submission to Architect and Engineer (four copies).
- B. Shop drawings shall show all proposed routing of piping. Piping shall be installed to clear all other items of equipment and Architectural and Structural components within the building. Show all details required to make a complete installation from the shop drawings. After approval of drawings has been obtained, install the system exactly as shown. Obtain approval from Architect/Engineer to make any changes from shop drawings.
- C. Shop drawings shall clearly show any piping that will not be concealed in the building structure

- 3.01 **ACCEPTABLE MANUFACTURERS**
- A. Equipment shall be by Grinnell, Viking, Star, Reliable, Globe, Crocker-Standards, Central, Potter-Roemer, or approved substitute.
- 3.02 **INTERIOR FIRE SERVICE PLUMBING**
- A. Pipe shall be schedule 40, black seamless steel, ASTM A120, ASTM 53, Pipe 2" or larger may be schedule 10, grooved black steel pipe. Fittings may be style 74 or 75 "Victaulic" mechanical coupling system for 300 PSI working pressure.
- B. Fittings and joints shall be as follows:
- 2" and larger: Welded with standard weight fittings or "Victaulic" fittings.
  - 1-1/2" and smaller: Screwed with 150 lb. malleable iron fittings.

- 3.03 **FIRE DEPARTMENT SIAMASE CONNECTION**
- A. Provide a cast brass flush wall fire department connection, adequately sized for the application with threads, fittings, etc acceptable to the local fire department. Connection shall include drop clapper, pin lug hose thread swivels, pin lug plugs and chain. The connection shall be labelled as directed by the local Fire Department. All components shall be chrome-plated.

- 3.04 **WATER FLOW ALARMS**
- A. Water flow indicator shall be electric, vane-type detector with two sets of normally open contacts and a time retard to prevent false alarms.

- 3.05 **AUTOMATIC SPRINKLERS**
- A. Sprinklers shall have temperature ratings as required by NFPA Standard No. 13 for the sprinkler location. Verify exact head types in finished areas with Architect. Provide specific head types as follows. The following are catalog numbers of Grinnell.
- Finished areas (ceiling): Semi-recessed, polished chrome pendant heads. Heads shall be Model A with recessed closure.
  - Finished areas (wall): Exposed sidewall (Universal Model A).
  - Unfinished areas (ceiling): Exposed pendant or upright head, as required by the application (Universal Model A).
  - Areas exposed to freezing temperatures: Dry pendant (Model F 960).
- B. Provide steel sprinkler guards on heads, which are exposed to physical damage.

- 3.06 **TAMPER SWITCH**
- A. Provide an electric supervisory monitor switch at the required valves. Grinnell Model F640 or as required.

- 3.07 **HORN/LIGHT**
- A. Provide an electric combination horn/light, suitable for exterior application, rated for the appropriate voltage.

- 3.08 **PIPING INSTALLATION**
- A. All piping shall be concealed wherever possible. Exceptions must be clearly marked on shop drawings and shall not be installed until approved by Architect.
- B. If exposed, piping shall be installed in the most direct, straight, and least obtrusive manner possible, and as close to walls and ceilings as is consistent with good workmanship.
- C. Install piping graded to low points and in manner that make it possible to test and empty entire system.
- D. Pipe and fittings shall be inspected for soundness and cleaned of all dirt and other foreign matter prior to being installed. All damaged pipe and fittings shall be rejected. Heads shall be covered, and system shall be ready for painting.
- E. Protect open pipe ends whenever work is suspended during construction, to prevent foreign bodies entering and lodging therein. Use cast iron or malleable iron caps, or other methods as approved by the Architect

- 3.09 **VALVE IDENTIFICATION**
- A. Drain valves, test valves, and control valves shall be identified with a stamped metal tag indicating their use.

- 3.10 **TESTING**
- A. A 1" inspector's test connection shall be installed at the farthest and most remote location in the system with discharge running to the exterior of the building.
- B. All piping and equipment shall be tested and proved tight under a hydrostatic pressure of 150% of the main pressure or 200 psi, whichever is larger. The test shall be conducted for a six-hour continuous period, with not be more than 2 pounds of pressure loss during this period in any part of the system. Any leaks found shall be repaired and the pressure test repeated.
- C. All tests shall be performed in the presence of the Architect or authorized representative of the Owner.

- 3.11 **FLUSHING**
- A. Flush piping system thoroughly with clear water to placing automatic sprinkler system in operation.

- 3.12 **SPRINKLER CABINET**
- A. Provide a reserve sprinkler cabinet with at least six spare sprinkler heads or a minimum of two of each type used for systems with less than 300 heads total. Cabinet shall be equipped with two special sprinkler wrenches. Cabinet shall be a labeled, metal, wall-mounted type with red enamel finish and a rigid hinged and locked door. Two keys shall be provided.

### DIVISION 22 - PLUMBING

#### SECTION 22 05 00 - COMMON WORK RESULTS FOR PLUMBING

- 1.01 **WORK INCLUDED**
- A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Mechanical Contractor. The general conditions of the specifications apply and are included in this part of this section.
- Gas piping system
  - Domestic hot and cold water systems
  - Interior sanitary sewer system
  - Interior storm sewer system and discharge

- 1.02 **CODES AND REGULATIONS**
- A. Comply with state and local codes, and utility company regulations. Final interpretations will be made by the local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:
- Building Code: 2021 International Building Code
  - Plumbing Code: 2021 International Plumbing Code
  - Mechanical Code: 2021 International Mechanical Code
  - Fire Code: 2021 International Fire Code
  - Gas Code: 2021 International Fuel Gas Code
  - Energy Code: 2021 International Energy Conservation Code
  - Electrical Code: 2023 National Electrical Code

- 1.03 **EQUIPMENT AND MATERIALS STANDARDS**
- A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.

- 1.04 **CONTRACT DRAWINGS**
- A. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural plans and locate all ceiling equipment where indicated on reflected ceiling plans

- 1.05 **SHOP DRAWINGS**
- A. Submit products data and/or shop drawings as required by the Architect for the following:
- Insulation
  - Valves
  - Plumbing fixtures and appurtenances.

4. Pumps
- B. Quality of specific equipment is established by manufacturer's catalog number. Alterations caused by any Substitution shall be accomplished at no additional expense to the Owner.

- C. Manufacturers not listed may submit for acceptance as an "approved equivalent." Requests for an "equivalent" means "approved equivalent". Four copies of such submittal must be received by the Engineer seven (7) working days prior to bid date.

- 1.06 **WARRANTY**
- A. The Contractor shall be responsible for the successful operation of mechanical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be repaired or replaced at no expense to the Owner. Provide four complete service and maintenance calls spaced at equal intervals during the warranty period.

- 1.07 **PRODUCT HANDLING AND CLEAN UP**
- A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.

- 1.08 **CUTTING AND REPAIRING**
- A. The contractor shall be responsible for all cutting, drilling, welding, and repair required for his portion of the work. Coordinate with the Architect. The General Conditions take precedence.

- 1.09 **OPERATING AND MAINTENANCE DATA**
- A. Provide the Owner with operating and maintenance instructions (four copies) required for operation of all mechanical systems. Bind the written instructions in a notebook. The General Conditions take precedence. The manuals shall include the following items:
- Operating manual and spare parts list for each piece of equipment.
  - Preventive maintenance schedule for lubricating and checking each piece of equipment.
  - Instructions on who to call for service during the warranty period.

- 1.10 **PERMITS**
- A. The contractor shall pay for all fees, taxes, secure permits, licenses, and inspections required for the project.

- 1.11 **TEMPORARY SERVICES**
- A. Provide temporary water service for construction, as required by the General Contractor.

- 1.12 **COORDINATION**
- A. Coordinate outlet device and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before ordering equipment.

- B. Electrical work performed by this contractor will conform to the standards of Division 26-28. Mechanical equipment motors and controls shall be furnished, set in place, and wired according with the following schedule unless otherwise noted. MC = Division 21-23 EC = Division 26-28

Item	Turn		Set		Power	
	By	By	By	By	By	By
Combination starters	MC	EC	EC	MC		
Equipment motors	MC	MC	EC	EC	--	
Motor starters & O.L. relays	MC	EC	EC	MC		
Disconnect switches	EC	EC	EC	MC		
Thermal overload heaters (1)	EC	EC	EC	--		
Variable Speed Drive	MC	EC	EC	MC		
Control relays/transformers	MC	MC	EC	MC		
Temperature control panels	MC	MC	EC	MC		
Temp. Controls conduit/wiring	MC	MC	--	MC		
Actuator and solenoid wiring	MC	MC	--	MC		
Pashbuttons & pilot lights	MC	MC	--	MC		
Room thermostats	MC	MC	--	MC		
Thermostats: line voltage	EC	EC	EC	--		

- C. The general guideline for the division between control (by MC) wiring and power wiring (by EC) is that power wiring carries the current which energizes a motor, control wiring does not. Control wiring may be 120V, which would be the responsibility of the MC. Control motors are wired by the MC.

- D. Examine the site and become aware of existing conditions, utilities, and other issues affecting the satisfactory completion of the project.

- 1.13 **DELIVERY, STORAGE, HANDLING**
- A. Provide necessary hoisting and hoisting equipment. Protect the materials of this Division before, during, and after installation.

- 1.14 **AS-BUILT DRAWINGS**
- A. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish engineer with a reproducible prints showing the "as-built" installation.

- 1.15 **PROJECT SITE CONDITIONS**
- A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.

- 1.16 **PLAN VERIFICATION**
- A. After completion of the bidding and selection process, prior to awarding the contract, the contractor must review and verify the contract documents in their entirety, including those of other trades. At this time, discrepancies, conflicts, omissions, etc. in the contract documents must be documented. Alterations to the contract will be made at that time to include such items, as well other modifications which might be made by the Owner. After award of the contract, change orders caused by discrepancies, conflicts, omissions in the contract documents will not be allowed.

- 2.01 **EXPANSION JOINTS, GUIDES, AND ANCHORS**
- A. Provide expansion joints or loops, guides, and anchors in piping to allow for expansion and contractions. Expansion joints shall be bellows type.

- 2.02 **VALVES**
- A. Gate valves 2" and smaller shall be cast bronze, rising stem, solid disc, 200 PSI WOG.
- B. Ball valves 2" and smaller shall be cast bronze, full port, stainless steel ball, teflon seats, 400 PSI WOG.
- C. Butterfly valves 2" and smaller shall be cast bronze, stainless steel disc, surrounding fluorocarbon seal, 350 PSI WOG.
- D. Check valves shall be horizontal, swing-out bronze, bronze disc, 200 PSI WOG.
- E. Valves shall be domestically manufactured by Milwaukee, Powell, Nbcso, or equivalent.

- 2.03 **RELIEF VALVES**
- A. Relief valves shall be all-bronze A.S.M.E. rated valves with external test levers, sized in accordance with the instructions of the appropriate manufacturer. Pipe discharge outside or to floor drain where possible and per code. Valves shall be manufactured by Watts or equivalent.

- 2.04 **FLEXIBLE CONNECTORS**
- A. Connectors in piping shall be made with molded teflon or neoprene and nylon bellows, metal reinforcing rings, flanged ends and control rods, suitable for 40F to 200F temperature range and 125 lbs. pressure. Alternative shall be stainless steel inner hose with braided exterior sleeve for steel pipe or bronze inner hose with braided exterior sleeve for copper piping. Metra-Flux Company, or equivalent.

- 2.05 **SPECIALTIES**
- A. P/T Plugs: 1/4" diameter, brass with Norel core, Sisco or equivalent.
- B. Pressure Gauges: 4 1/2" dial type, aluminum housing, Ashcroft 1010 or equivalent.
- C. Thermometers: 7" red reading mercury type; Palmer Instruments or equivalent.

- 2.06 **ELECTRICAL**
- A. Lugs: Lugs for wiring connections shall be rated for copper and aluminum, and shall have a minimum rating of 75C.
- B. Electric motors shall be rated for the appropriate application: wet location (TEFC), submersible; explosion proof, VFD's, etc.

- 2.07 **ACCESS PANELS**
- A. The Mechanical Contractor shall furnish and install access panels where required for access to equipment. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

- 2.08 **EXCAVATION AND BACKFILLING**
- A. Provide excavating and backfilling for Mechanical Work. Backfill in 12" layers, mechanically tamper to 95% proctor standards. Protect according to OSHA standards. The General Conditions take precedence. Verify the location of underground utilities before excavation; the contractor is responsible for any damage to underground utilities. Restore existing paving, curbs, sod, bushes, etc to match surroundings.

- 2.09 **START-UP PROCEDURES**
- A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at no expense to the owner.

- 2.10 **PIPING INSTALLATION**
- A. Install piping plumb and straight, parallel with walls and partitions. Conceal piping within structure whenever practical. Provide drain valves at all low points, vents at all high points, to allow complete drainage.
- B. Material and methods per ASME, ASTM, ASA, AWS, and National Plumbing Code Handbook
- C. Provide unions or flanges in piping connections to each valve, device, or item of equipment. Install each union or flange to permit the removal of parts and equipment for inspection or cleaning, without disconnecting any piping, except unions or flanges. Provide dielectric unions at locations with dissimilar materials.
- D. Piping on the roof will be supported above the roof on roof pads. The pads shall be approximately 6" wide by 6" high by the length as required. They shall be made of recycled rubber, rated for 500lbs/ft loading each. The pads will have galvanized steel "C" channel attached to the top, which can accommodate pipe clamps to secure the piping. This configuration of individual piping pads may be expanded to include two pads supporting a trapeze style support where multiple pipes are racked together. The pads are C-series manufactured by Cooper B-line, Erico, or approved equivalent.

- 2.11 **HANGERS AND SUPPORTS**
- A. Support piping and equipment from the structure to prevent sagging, pocketing, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be steel, except copper hangers will be used with copper piping. Hangers supporting vibrating equipment shall be provided with spring isolators. Chain, perforated iron or wire hangers are not permitted. Hangers will be of a type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

- 2.12 **SLEEVES AND PLATES**
- A. Provide sleeves and inserts for all mechanical piping. The contractor shall be responsible for the cost of cutting and patching required for piping where sleeves and inserts were not installed or where incorrectly located. Sheetrock joint compound may be used to seal openings in non-rated walls/ceilings that are penetrated through walls.
- B. Drill holes as required for the installation of hangers required for the mechanical work.
- C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made completely water-tight.
- D. Seal all piping passing through fire-rated construction with approved material to maintain air-tight, fire-rated integrity, with a U.L. listed assembly compatible with the wall or floor assembly being penetrated.

- 2.13 **PIPING TESTING**
- A. All piping systems shall be tested and witnessed by the Owner prior to concealment. Protect equipment and fixtures or equipment, isolating them during the test. DWV system shall be sealed and hold water without leaks for 24 hours. Domestic water and hydronic piping shall be air tested at 150 PSIG; natural gas piping shall be air tested at 30 PSIG. Air tests shall be held for one hour without loss of pressure.

- 2.14 **CLEANING AND STERILIZATION**
- A. After testing, water piping systems shall be filled, operated for a sufficient length of time to completely remove all foreign material, and flushed.

- B. Sterilize the domestic hot and cold water piping in accordance with the local health authority standards. Flush the systems with clear water until the residual chlorine content is equal to that of clear water.

- C. Where there is no water treatment contractor sterilize piping system with chlorine for 24 hours to 50 PPM. Completely flush to less than 1 PPM. Local health authority standards take precedence.

- 2.15 **FLEXIBLE PIPE CONNECTIONS**
- A. Provide flexible pipe connection suitable to connect to adjoining piping as specified for pipe joints. Use sized pipe unions. Install flexible pipe connectors on pipes connected to equipment supported by vibration isolation.

- 2.16 **PIPE IDENTIFICATION**
- A. After completion of the piping or insulation, paint stenciled descriptive abbreviations, including directional arrows, on piping at equipment and approximately every 25'.

#### SECTION 22 07 00 - PLUMBING INSULATION

- 1.01 **QUALITY ASSURANCE**
- A. All insulation shall have a composite rating (insulation, jacket and adhesives) not exceeding flame spread 25 and smoke developed 50.

- 2.01 **PIPE INSULATION FOR PIPING ABOVE GRADE**
- A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75 °F mean, with thicknesses as follows:

Pipe Sizes	<1"	1" to 1 1/2"	> 1 1/2"
Dom. cold piping	1/2"	1/2"	1"
Roof drain sumps, & horiz. leaders	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1-1/2"	1-1/2"	1-1/2"

- B. Insulation shall be Armaflex® "Armaflex" or equivalent by Johns-Mansville, Owens-Corning.
- C. Buried piping insulation will be sleeved with PVC or HDPE pipe sleeve or encased in concrete. Sleeve and insulation will be sealed weathertight and installed per manufacturers instructions.
- D. Exterior piping insulation will be painted with a white solvent based alkyl finish (Armaflex AB or equivalent), including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc.
- E. All interior underground water (domestic and hydronic) piping shall be insulated with 1" Armaflex, except where noted.

- 2.02 **PIPE INSULATION FOR PIPING BELOW GRADE**
- A. Insulation shall be closed-cell, elastomeric pipe insulation having a conductivity of 0.27 at 75F mean, with thicknesses as follows:

Pipe Sizes	<1"	1" to 1 1/2"	> 1 1/2"
Dom. cold piping	1/2"	1/2"	1"
Dom. hot & recirc. Piping	1"	1"	1"

- B. Insulation shall be Armaflex® "Armaflex" or equivalent by Johns-Mansville, Owens-Corning.
- C. Exterior piping insulation will be painted with a white solvent based alkyl finish (Armaflex AB or equivalent), including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weathertight and installed per manufacturers instructions.
- D. All interior underground water (domestic and hydronic) piping shall be insulated with 1" Armaflex, except where noted.

- 3.01 **PIPE/ELASTOMERIC**
- A. Insulation shall be solid slip-on installed prior to connection. Butt joints shall be sealed with manufacturer's adhesive. Where slit seams must be installed, seal the seam with manufacturer's adhesive. Fittings shall be insulated with meter-cut pieces of insulation according to manufacturer's instructions, or insulated with similar sheet insulation installed according to manufacturer's instructions.
- B. Provide wood blocks and metal hanger shields at support strap locations on horizontal pipe runs. Insulation will not be interrupted for supports, etc.

#### SECTION 22 10 00 - PLUMBING

- 1.01 **WATER SERVICE**
- A. Consult with local authorities to provide water service. Provide meter pit, meter yokes, valves, RPZ valves, PRV valves, etc. for complete installation. Connect to a point 5' from building. Coordinate exact point of connection with site contractor before bidding.

- 1.02 **SANITARY SEWER CONNECTION**
- A. Consult with local authorities and connect to sewer main as required. Connect to a point 5' from building. Coordinate exact point of connection with site contractor before bidding.

- 2.01 **DOMESTIC WATER SYSTEM PIPING**
- A. Domestic cold, hot, and recirculating hot water piping may be either copper, or PEX, as noted below:
- Copper piping:
    - Above grade, piping shall be Type L, hard-drawn copper tubing with wrought copper fittings. Solder shall be lead-free.
    - Below grade, piping shall be Type K, soft-drawn copper tubing with fittings only where specifically allowed by the architect. Where required, the fittings will be wrought copper. Solder shall be 95/5 tin/antimony, except underground, where it will be silver solder.
  - PEX Tubing:
    - Tubing shall be cross-linked polyethylene using the Engel method of cross-linking. The tubing shall be rated for 80PSI at 200F, and shall be manufactured according to ASTM F 876 and ASTM F 877.
    - Fittings shall be APR(brass) "Pro-plex" style or equivalent. Manifolds may be copper, brass, or plastic, with balancing controls.
    - Stub outs to be copper with brass shutoff valves. Stub outs to be properly secured to wall.
    - Tubing in return air plenums, or other areas designed as air handling plenums, shall be installed to a flame rating of 25/50 according to ASTM E84, whether by spacing, insulation or other approved method.
    - Tubing shall be as manufactured by Wirsbo or equivalent.

- 2.02 **SOIL, WASTE, AND STORM PIPING**
- A. Soil, waste, and vent piping, and storm piping shall be schedule 40 solid core PVC conforming to ASTM D2665 and ASTM D1785 with solvent joints conforming to ASTM D2855, except as noted below. PVC buried below slab shall be installed in conformance with ASTM D2321:
- Huibles(No Hub), cast iron soil pipe conforming to CISPI 301 with stainless steel no-hub couplings conforming to CISPI 310 shall be used in return air plenums and other areas designed as air handling plenums, or where specifically required by local code. All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute and be listed by the NSF International.
  - Epoxy Coated Huibles(No Hub), cast iron soil pipe conforming to CISPI 301 with stainless steel no-hub couplings conforming to CISPI 310 shall be used in commercial kitchens to a point approximately 20' downstream of drains serving dishwashers.
- B. Soil, waste, and storm piping below grade 5' beyond the building may be PVC SDR 35, installed in conformance with ASTM 3034 and utilizing push-on joints.
- C. Storm water piping shall be same as soil and waste piping when concealed and galvanized schedule 40 steel pipe when exposed to physical damage. Fittings shall be cast iron, drainage type.

- 2.03 **PLUMBING FIXTURES AND TRIM**
- A. Provide plumbing fixtures as specified on the plans. Provide carriers, trim, bolts, caps, etc. according to the manufacturer's instructions and as required for a complete installation. All fittings and appurtenances (p-traps, connections, etc) shall be brass; chrome plated brass where visible.
- B. Provide carriers for wall hung or mounted fixtures such as water closets, lavatories, urinals, sinks, etc. The carriers shall be designed to fit in the wall structure available, and shall transmit the load to the floor. Fixtures will not be supported by the wall structure unless specifically indicated.

- 2.04 **GAS PIPING**
- A. Above grade in accessible locations, gas piping shall be schedule 40, black iron pipe with threaded fittings. Fittings shall be made of malleable iron. Gas piping run in return plenums, where allowed by local code, shall be welded joints.
- B. Regulators shall be Maxitrol, or equivalent, of size and capacity as required.

- 2.05 **GAS WATER HEATER(SEALED COMBUSTION)**
- A. Water heater shall be as specified on the plans. Heaters shall be approved and listed by the American Gas Association as self-contained, vented water heaters. The tank shall be heavy-gauge, welded steel, glass-lined, foam insulated to conform to ASHRAE 90.1b-1992. The heater shall be rated for 150 PSI and shall have a five-year warranty. The power burner shall be sealed combustion, submerged with spiral internal flue. The controls shall be electronic microprocessor based with digital display and shall include high-limit control and safety shut off. The heater shall include two (2) magnesium anodes and a pressure and temperature relief valve. The heater will be furnished with integral heat traps. Where required by local code, provide ASME certification.
- B. Water heater shall be provided with R 14 insulation. Where factory insulation does not meet installation requirements, provide aftermarket insulated jacket as required to meet requirements.
- C. Where flue is run thru unimulated, unconditioned spaces (attics, crawlspaces, etc.), insulate the flue with R8 equivalent insulation.
- D. The water heaters shall be manufactured by A.O. Smith, State, Polaris, Ruud or Bradford-White.

- 2.06 **CONDENSATE NEUTRALIZER**
- A. Neutralizer shall be inline type made from corrosion resistant material with replaceable neutralization media. Neutralizer shall be of appropriate size and type for appliance served.
- B. Manufacturer shall be Dayton, Axiom, or equivalent.

- 2.07 **DOMESTIC RECIRCULATING PUMP**
- A. Pump shall be 2800 rpm, in-line, centrifugal oil-lubricated, sleeve-bearing pump with flanged piping connections, bronze body, plastic impeller, and having mechanical seals. Motors shall be non-overloading, open drip-proof type.
- B. The pump shall be furnished with an automatic timer kit.
- C. Manufacturer shall be Bell and Gossett, Paco, Taco, or approved equivalent.

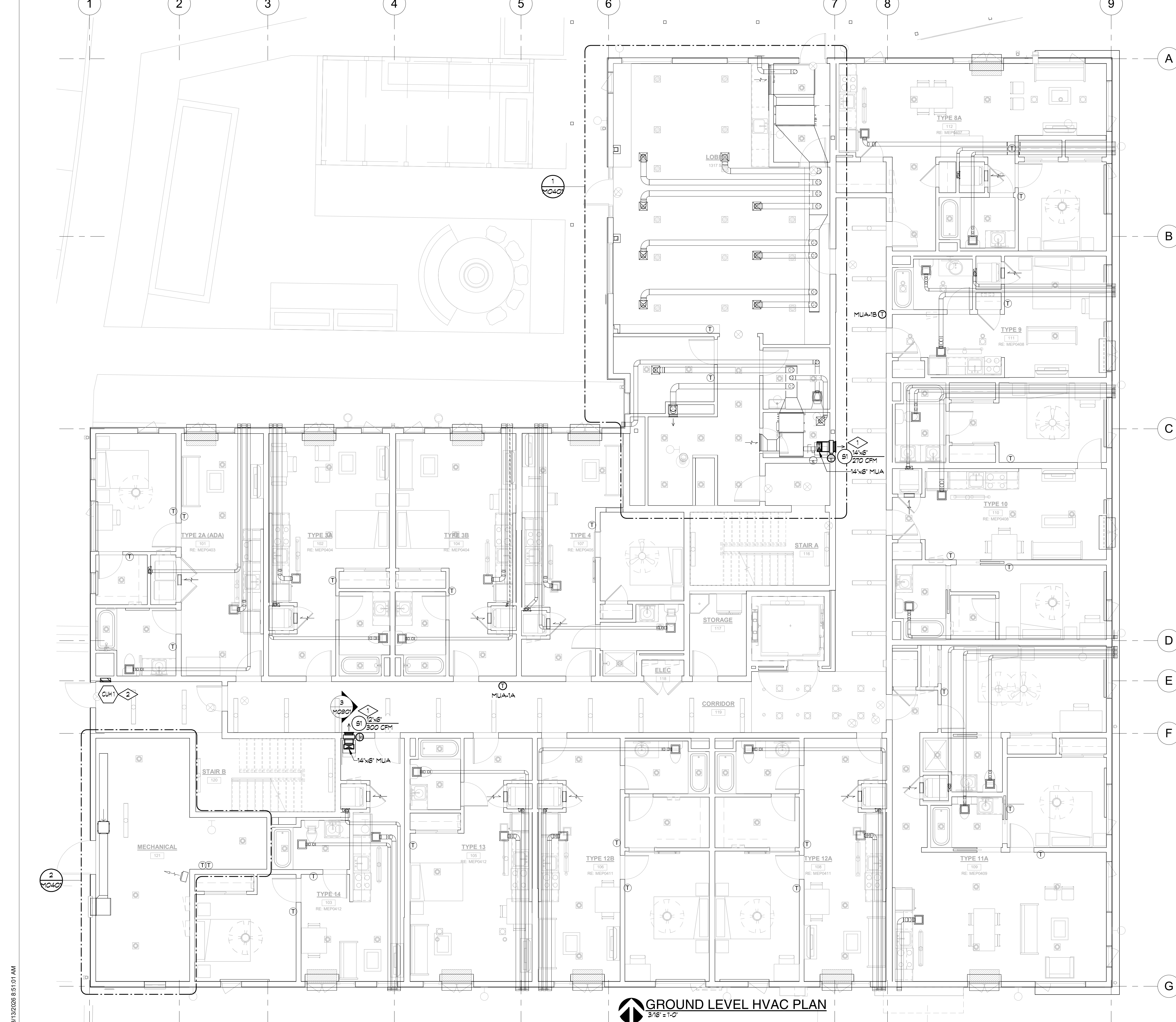
- 3.01 **DOMESTIC WATER SYSTEM**
- A. Provide drip cocks so that the entire system may be drained. Provide manual air vents at high points in the system where air may be trapped. Provide stops for all fixtures and appliances. Provide a full size ball valve on each branch serving a hose bib.
- B. Provide swing or swivel joints on connections as required to prevent noise or vibration of the piping. Provide fixture stops at all fixtures, hose bibs, wall hydrants, and Owner-furnished fixtures. Run all piping on warm side of building insulation. Pipe insulation is not considered freeze protection. Provide water hammer arrestors where required. Locate to be accessible or provide access panel.

- 3.02 **SOIL, WASTE, AND STORM WATER PIPING**
- A. Lay piping true to line and grade so that sewer will have smooth and uniform invert throughout its length. Verify elevations of existing sewer before starting work.
- B. Install a clean-out at the base of each soil stack, at the base of each interior rain-water conductor, at each change in direction, at intervals not over 50 feet interior of building, and every 100 feet exterior to building and elsewhere as shown on the drawings or required by Code. Make clean-outs same size as pipe service, except they need be no larger than 4". Set tops and covers flush with floors and walls. Wall covers shall be round polished stainless steel with centered stainless steel securing screw (Josam 58710). Floor cleanouts shall be flush, cast iron, ABS plug with Nikalloy cover(Josam 56000). Provide floor clamps at each floor for uniform support of stacks.

- C. The entire drain waste and vent, and storm sewer systems shall be watertight and odorproof, including sealing of floor drains and sinks, crosing rags, etc.

- 3.03 **WATER HEATER INSTALLATION**
- A. Install water heaters per manufacturer's instructions. Provide 24 gauge, galvanized steel drain pan, piped with minimum 3/4" drain, piped to an approved receptor with indirect waste connection per code.
- B. Route the P/T relief valve full sized to approved receptor and discharge per code. Provide expansion device, tank or valve, as required by code, and allowed by the local jurisdiction.
- C. Flue and combustion air ducts shall be provided by the mechanical contractor, unless otherwise noted. Where sealed combustion water heaters are used, the Plumbing Contractor shall install PVC flue and combustion air piping. This piping will be of the size and type recommended by the manufacturer, and use factory recommended discharge/intake fittings as shown on the plans.
- D. Condensing water heaters shall utilize an inline condensate neutralizer. Provide PVC drain from water heater and/or flue with a minimum 3/4" drain, piped to an approved receptor with indirect waste connection per code. Verify installation details with manufacturer.

- 3.04 **PLUMBING FIXTURES AND TRIM**
- A. Furnish and install a vacuum breaker at each hot and cold water service outlet to which a hose can be attached, including janitor's faucets.
- B. Provide chrome-plated rigid or flexible supplies to fixtures with stops, reducers, and escutcheons. Insulate stops and supplies at handicapped sinks with Truebro lav guard or equivalent. Bag type covers are not allowed.
- C. Provide chrome plated brass P-traps with slip fittings for all exposed drains. Insulate P-traps at handicapped sinks with Truebro lav guard or equivalent. Bag type covers are not allowed.
- D. Flush valve handles, and flush tank handles, on handicapped water closets shall be located on the wide side of the stall for convenient access and as required by code.
- E. Provide a flexible elastomeric sheet for flashing around all shower drains, roof drains, floor drains, floor sinks, etc except for slabs on grade. The membrane shall be a minimum 0.40 inch thick, made of chlorinated polyethylene, installed per manufacturer's instructions. The flashing membrane for roof drains, floor drains, etc shall be a minimum of 2x2'. The flashing membrane for shower pans, service sink pans, etc shall have "rips ear" folds in the corners, extending the membrane up at least 3" above the drain. The membranes shall be manufactured by Cholorloy or equivalent.
- F. Mount fixtures the following heights above finished floor:
- Water closet: 14"-15" to top of bowl rim; Handicapped, 18" to top of bowl rim.
  - Urinal: 24" to top of bowl rim; Handicapped, 17" to top of bowl rim.
  - Lavatory: 31" to top of basin rim; Handicapped: 32" to top of basin rim.
  - Drinking fountain: 40" to top of basin rim; Handicapped: 36



**GENERAL NOTES**

- A. IN THE CASE OF A DISCREPANCY BETWEEN GENERAL NOTES, DETAIL NOTES, SPECIFICATION, OR GRAPHICAL DEPICTIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY DESIGN INTENT WITH ENGINEER.
- B. FLEX DUCT MAY NOT BE USED IN EXPOSED LOCATIONS. WHERE CONCEALED, FLEX DUCT RUNS NO LONGER THAN 2', REFER TO SPECIFICATIONS.
- C. GRILLES, REGISTERS & DIFFUSERS & EXPOSED DUCTWORK TO MATCH ADJACENT CEILING/STRUCTURE COLOR. WHERE CEILING IS LIGHT COLOR, MAINTAIN WHITE GRDS. WHERE CEILING/STRUCTURE IS METAL FINISH OR DARK, PAINT GRDS TO MATCH. REFER TO ARCH PLANS FOR FINISHES.
- D. ANY UNDIMENSIONED DUCTWORK CONNECTED DIRECTLY TO AN AIR HANDLER TO BE SIZED TO MATCH DUCT CONNECTION OF EQUIPMENT.
- E. MAINTAIN 10' CLEARANCE FROM MECHANICAL EQUIPMENT TO EDGE OF ROOF IF PARAPET / RAILING IS LESS THAN 42" HIGH. IF CLEARANCE IS NOT POSSIBLE COORDINATE W/ GC TO PROVIDE ARREST/RESTRAINT ANCHOR PER ANSI Z359.1.
- F. MECHANICAL SYSTEM IS REQUIRED TO BE COMMISSIONED PER IECC C408.2.

**DETAIL NOTES THIS SHEET**

- 1. REFER TO MUA SUPPLY STACK SECTION ON SHEET M0201. PROVIDE FIRE/SMOKE DAMPER AT SHAFT PENETRATIONS.
- 2. VESTIBULE CUH-1 TO BE LIMITED TO 60°F SETPOINT TO COMPLY WITH 2021 IECC.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T.312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUVE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**OWNER**

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

**ARCHITECT**

**KASA**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T.312.636.3248 / 312.636.4252  
 www.kasa-arch.com

**GENERAL CONTRACTOR**

**DENEUVE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

**CIVIL ENGINEER**

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9434

**LANDSCAPE ARCHITECT**

**STRUCTURAL ENGINEER**

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

**M.E.P. ENGINEERS**

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

**INTERIOR DESIGNER:**

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

**PROJECT LOCATION**

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

**DRAWING TITLE**

**GROUND LEVEL HVAC PLAN**

**SEAL**

**DATE:** 03.13.2026

**DRAWN BY:** MO

**CHECKED BY:** MV

**PROJECT NO:** 25135

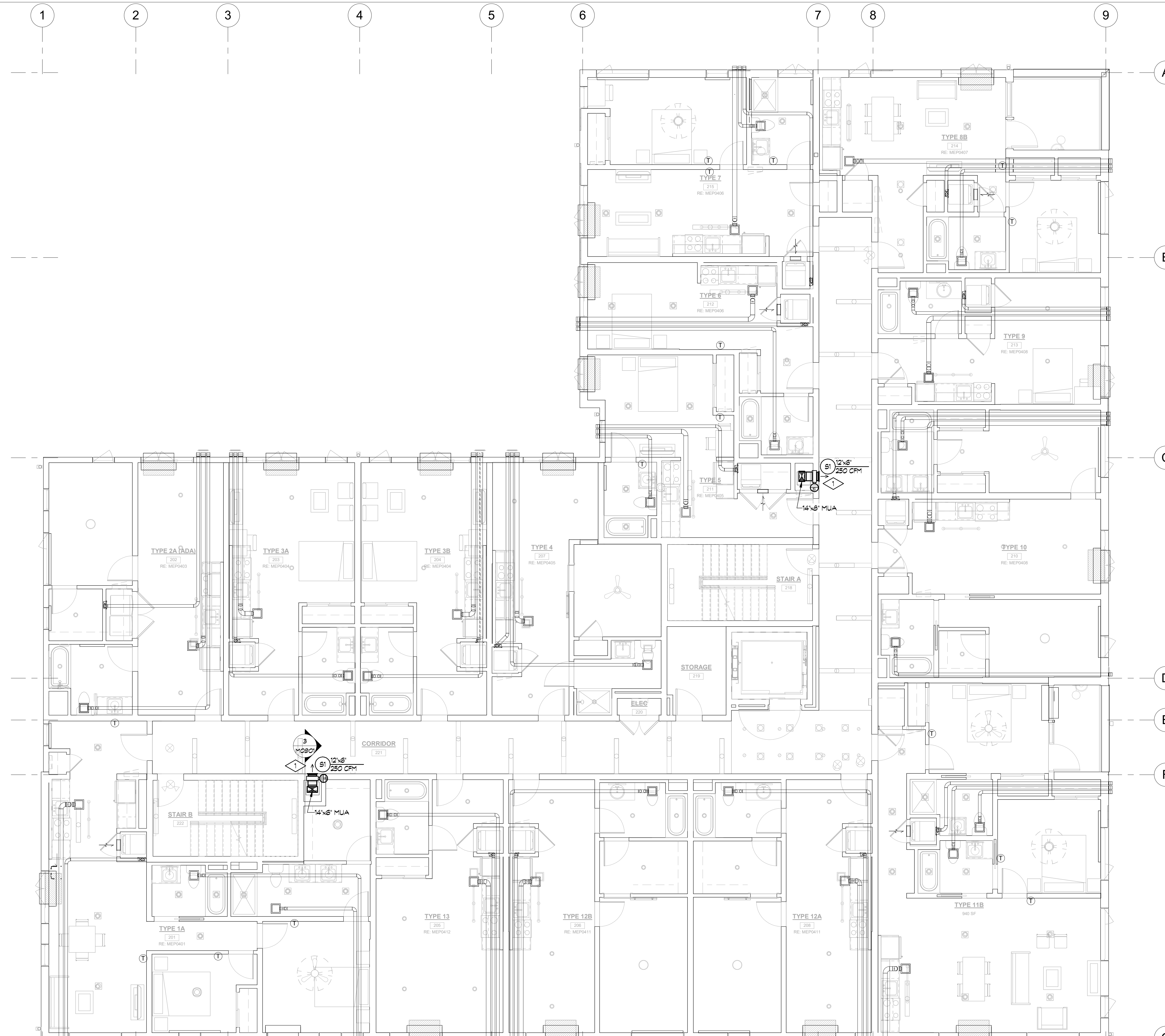
**DRAWING NO:** **M0201**

COPYRIGHT 2019

**GROUND LEVEL HVAC PLAN**  
 3/16" = 1'-0"

**DETAIL NOTES THIS SHEET**

1. REFER TO MUA SUPPLY STACK SECTION ON SHEET M0201.  
 PROVIDE FIRE/SMOKE DAMPER AT SHAFT PENETRATION.



3/13/2026 8:51:04 AM

APPROVAL STAMPS:

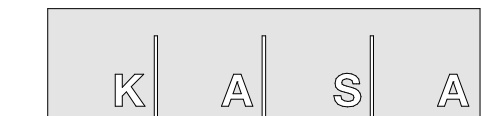
No.	Date	Description

**SUBMISSIONS & REVISIONS**

OWNER

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT



**KEVIN & ASAKO SPERRY ARCHITECTURE**  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUVE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

PROJECT LOCATION

**STEAMBOAT BASECAMP  
 AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

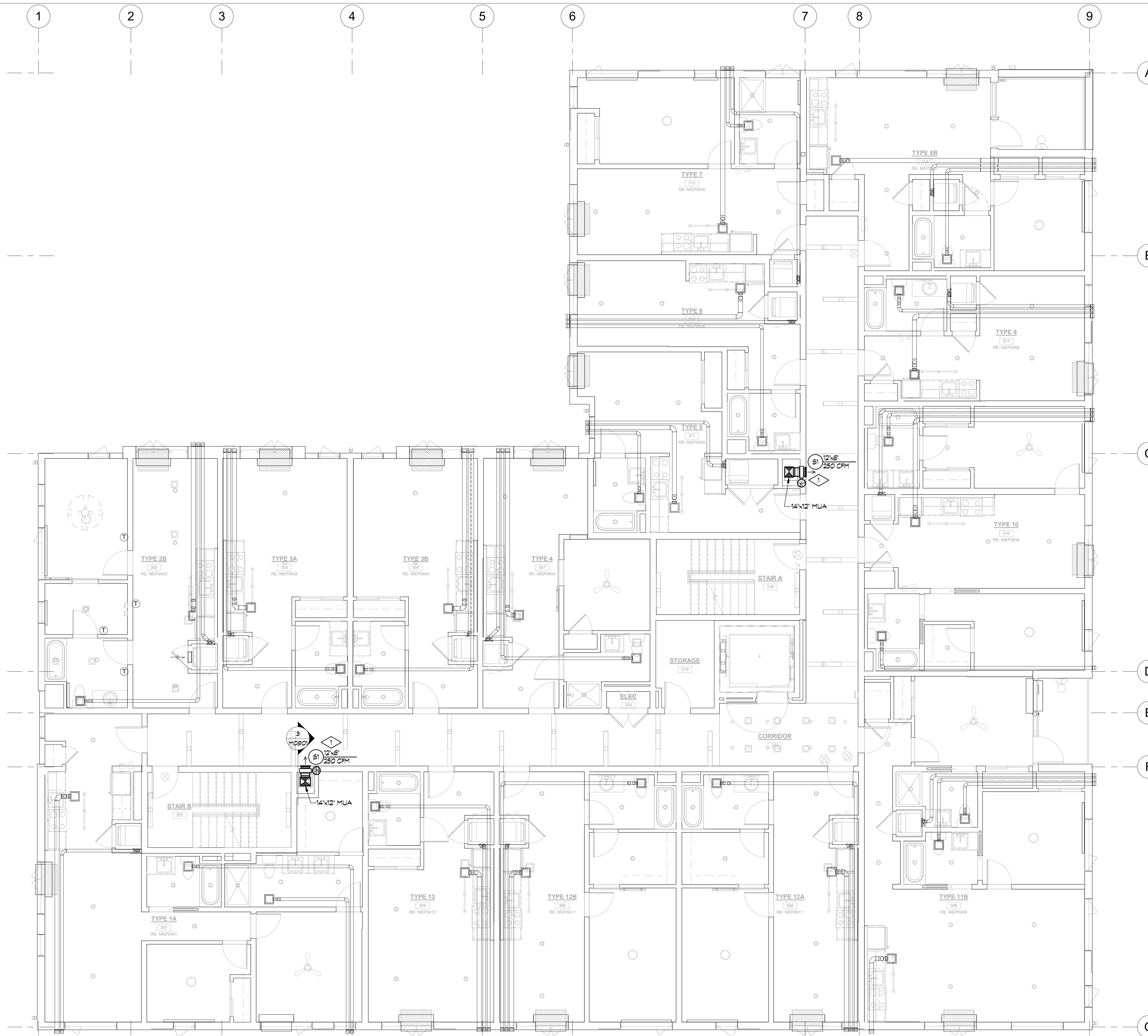
**SECOND LEVEL HVAC  
 PLAN**

SEAL	DATE: 03.13.2026
	DRAWN BY: MO
	CHECKED BY: MV
	PROJECT NO: 25135

DRAWING NO:  
**M020**

**DETAIL NOTES THIS SHEET**

- REFER TO MUA SUPPLY STACK SECTION ON SHEET M0201. PROVIDE FIRE/SMOKE DAMPER AT SHAFT PENETRATION.



**THIRD LEVEL HVAC PLAN**  
3/16" = 1'-0"

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		

OWNER

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT

**K A S A**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION

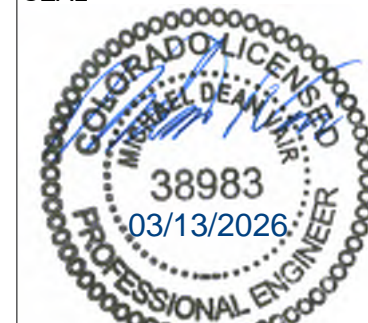
**STEAMBOAT BASECAMP  
AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

**THIRD LEVEL HVAC  
PLAN**

SEAL



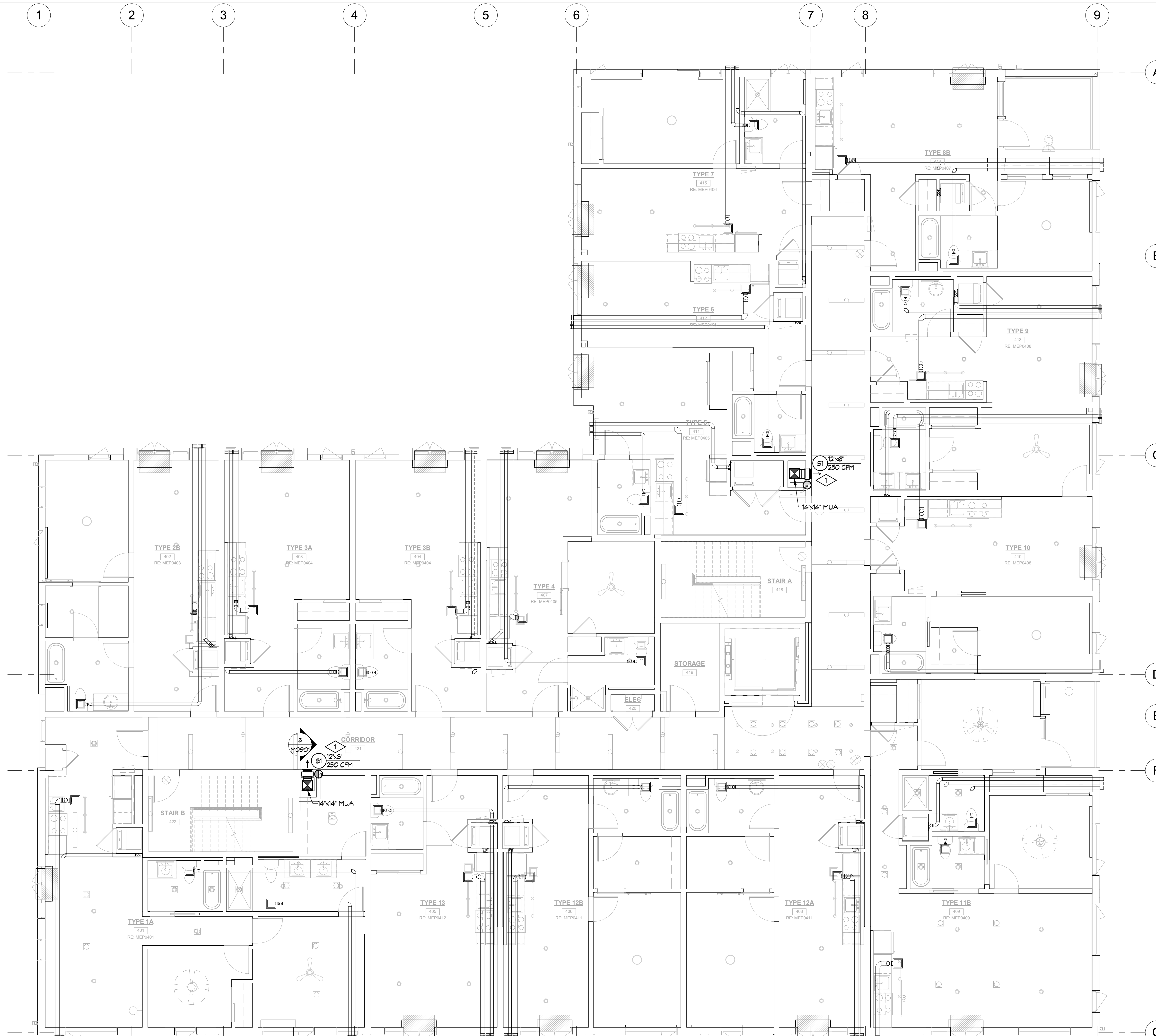
DATE:  
03.13.2026  
DRAWN BY:  
MO  
CHECKED BY:  
MV  
PROJECT NO:  
25135

DRAWING NO:

**M0203**

**DETAIL NOTES THIS SHEET**

1. REFER TO MUA SUPPLY STACK SECTION ON SHEET M0201.  
PROVIDE FIRE/SMOKE DAMPER AT SHAFT PENETRATION.



**FOURTH LEVEL HVAC PLAN**  
3/8" = 1'-0"

3/13/2026 8:51:11 AM

APPROVAL STAMPS:

No.	Date	Description

**SUBMISSIONS & REVISIONS**

OWNER  
**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayregler.com

ARCHITECT  
**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T.312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUVE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

LANDSCAPE ARCHITECT

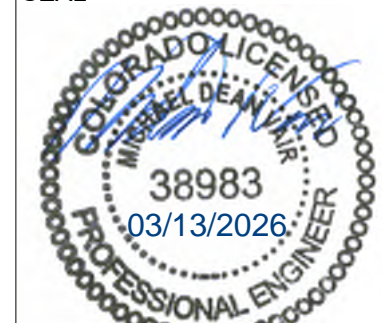
STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

**FOURTH LEVEL HVAC PLAN**

SEAL:  DATE: 03.13.2026  
DRAWN BY: MO  
CHECKED BY: MV  
PROJECT NO: 25135

DRAWING NO:  
**M0204**

COPYRIGHT 2019

1

2

3

4

5

6

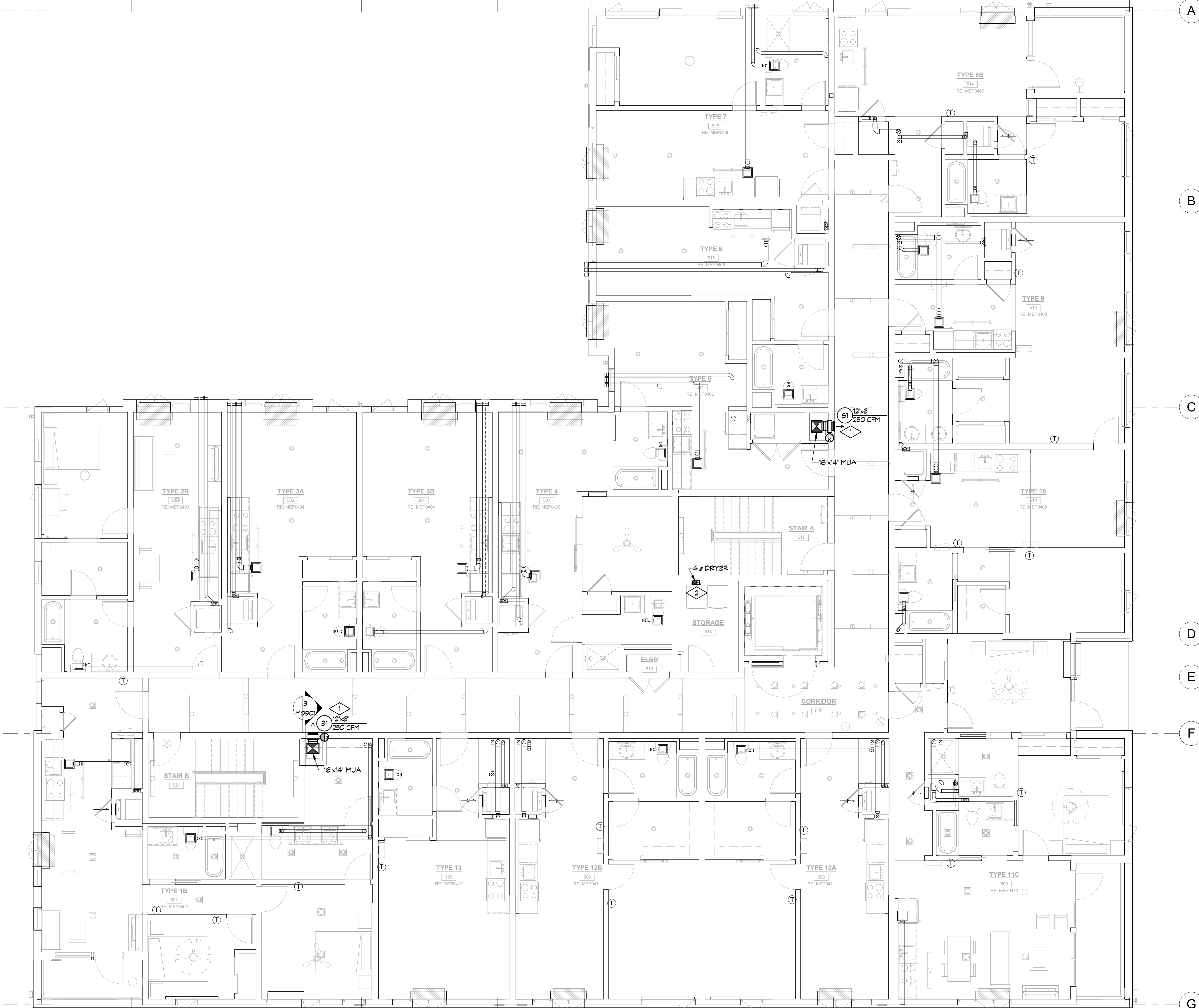
7

8

9

**DETAIL NOTES THIS SHEET**

- REFER TO MUA SUPPLY STACK SECTION ON SHEET M0201. PROVIDE FIRE/SMOKE DAMPER AT SHAFT PENETRATION.
- INSTALL DRYER BOX (IN-O-VATE TECH OR EQUIV.) IN FURRED WALL. ROUTE 4" DRYER VENT FROM DRYER BOX UP THROUGH TOP PLATE AND ROOF. INSULATE WITH R-8 DUCTWRAP WHEN LOCATED WITHIN UNCONDITIONED SPACE. COORDINATE WITH G.C.



A

B

C

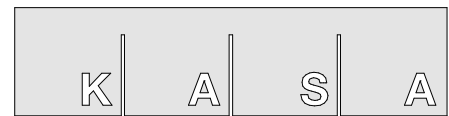
D

E

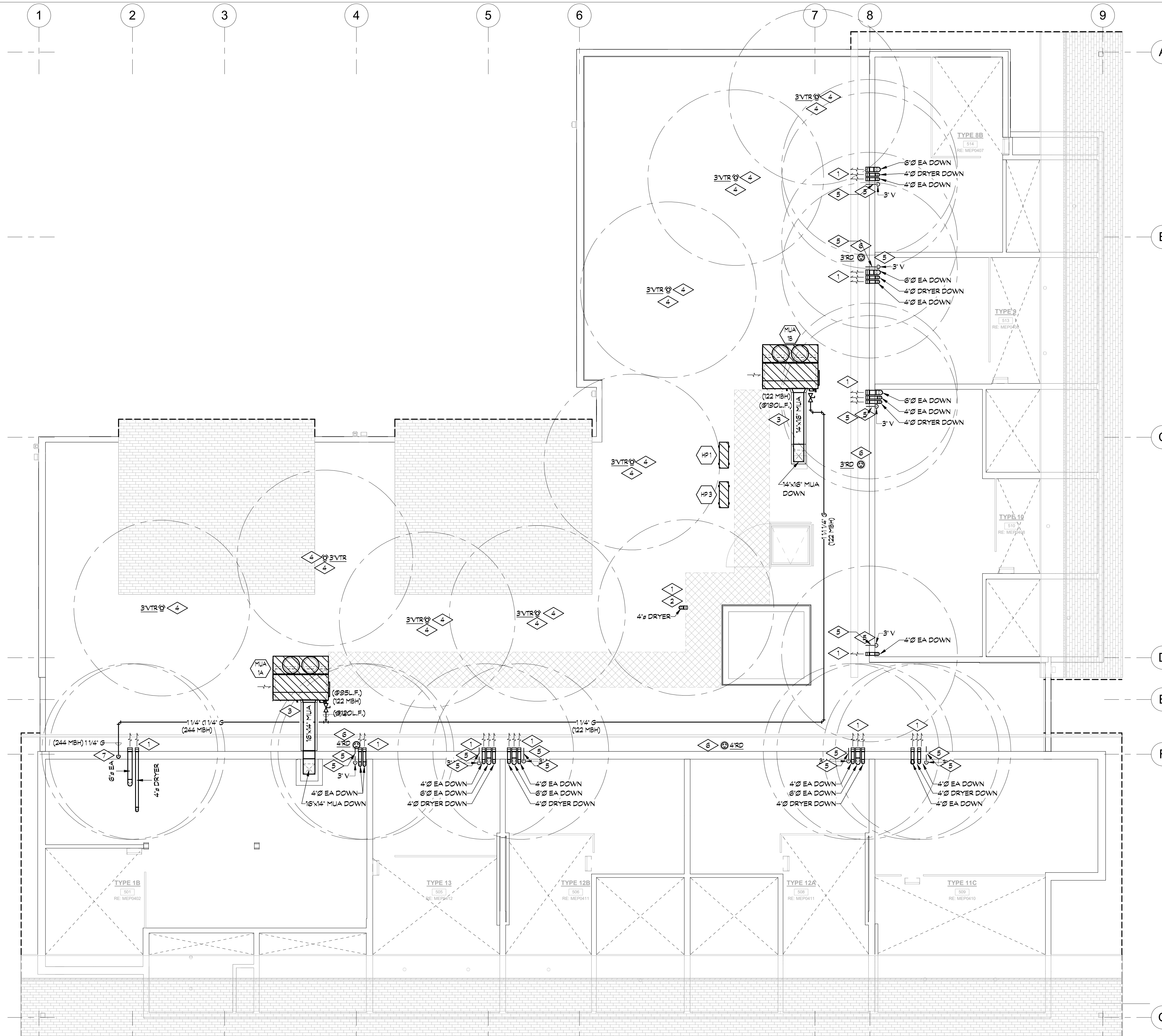
F

G

APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
<b>OWNER</b>		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
<b>ARCHITECT</b>		
 <b>KEVIN &amp; ASAKO SPERRY ARCHITECTURE</b> 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
<b>GENERAL CONTRACTOR</b>		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T: 303.444.6633		
<b>CIVIL ENGINEER</b>		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T: 970.871.9494		
<b>LANDSCAPE ARCHITECT</b>		
<b>STRUCTURAL ENGINEER</b>		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T: 303.384.9910		
<b>M.E.P. ENGINEERS</b>		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T: 303.444.6038		
<b>INTERIOR DESIGNER:</b>		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynnopp St., Suite 100 Denver, CO 80202 T: 303.892.7062		
<b>PROJECT LOCATION</b>		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487 DRAWING TITLE		
<b>FIFTH LEVEL HVAC PLAN</b>		
SEAL	DATE:	
 <b>38983</b> 03/13/2026 PROFESSIONAL ENGINEER	03.13.2026	
	DRAWN BY:	
	MO	
	CHECKED BY:	
MV		
PROJECT NO:		
25135		
DRAWING NO:		
<b>M0205</b>		

3/13/2026 8:51:14 AM



**DETAIL NOTES THIS SHEET**

- ENVIRONMENTAL EXHAUST TERMINATION. MAINTAIN 3'-0" CLEARANCE TO OPERABLE BUILDING OPENINGS AND 10'-0" CLEARANCE TO MECHANICAL AIR INTAKES.
- PROVIDE TALL ROOF JACK DRYER VENT TERMINATION WITH BACKDRAFT DAMPER.
- EXTERIOR DUCTWORK INSULATED PER SPECIFICATIONS. SEE SHEET M0301.
- 3" VTR IN APPROXIMATE LOCATION SHOWN, VTR TERMINATION TO BE A MINIMUM OF 10'-0" FROM ANY BUILDING OPENING OR MECHANICAL EQUIPMENT AIR INTAKE. COORDINATE EXACT LOCATION AND ROOF PENETRATION WITH G.C.
- 3" SIDEWALL PLUMBING VENT IN APPROXIMATE LOCATION SHOWN, TERMINATION TO BE A MINIMUM OF 10'-0" FROM ANY BUILDING OPENING OR MECHANICAL EQUIPMENT AIR INTAKE. COORDINATE EXACT LOCATION AND WALL PENETRATION WITH G.C.
- PROVIDE HEAT TRACE FOR SNOWMELT ON ROOF DRAINS. REFER TO ELECTRICAL PLANS.
- GAS PIPE DOWN TO MECHANICAL ROOM, SEE SHEET P0215 FOR CONTINUATION.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T: 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T: 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T: 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T: 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80502 T: 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T: 303.892.7062		

OWNER  
**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT  
**KASA**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T: 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR  
**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T: 303.444.6633

CIVIL ENGINEER  
**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T: 970.871.9434

LANDSCAPE ARCHITECT


STRUCTURAL ENGINEER  
**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T: 303.384.9910

M.E.P. ENGINEERS  
**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80502  
 T: 303.444.6038

INTERIOR DESIGNER:  
**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T: 303.892.7062

PROJECT LOCATION  
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE  
**MEZZANINE LEVEL MECHANICAL PLAN**

SEAL:  DATE: 03.13.2026  
 DRAWN BY: MO  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO:  
**M0206**

**MEZZANINE LEVEL MECHANICAL PLAN**  
 3/16" = 1'-0"



COMcheck Software Version COMcheckWeb  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 2021 IECC  
 Project Title: 25135 - Steamboat Basecamp 2  
 Location: Steamboat Springs, Colorado  
 Climate Zone: 7  
 Project Type: New Construction

Construction Site: 1901 Curve Plaza, Steamboat Springs, Colorado 80487  
 Owner/Agent:  
 Designer/Contractor: Boulder Engineering Co, 1717 15th Street, Boulder, Colorado 80302, 303-444-6038

**Additional Efficiency Package(s)**

Credits: 10.0 Required, 11.5 Proposed  
 10% heating efficiency improvement, 0.0 credit  
 10% cooling efficiency improvement, 1.5 credit  
 Efficient fossil fuel water heater, 10.0 credit

**Mechanical Systems List**

**Quantity System Type & Description**

- HFC/HP-1 (Single Zone):  
 Split System Heat Pump  
 Heating Mode: Capacity = 15 kBtu/h, Proposed Efficiency = 9.50 HSPF2, Required Efficiency = 7.50 HSPF2  
 Cooling Mode: Capacity = 12 kBtu/h, Proposed Efficiency = 17.00 SEER2, Required Efficiency = 14.30 SEER2  
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
 Fan System: HFC-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
 Fans:  
 FAN 1 Supply, Constant Volume, 425 CFM, 0.2 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
- HFC/HP-3 (Single Zone):  
 Split System Heat Pump  
 Heating Mode: Capacity = 40 kBtu/h, Proposed Efficiency = 9.30 HSPF2, Required Efficiency = 7.50 HSPF2  
 Cooling Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 21.70 SEER2, Required Efficiency = 14.30 SEER2  
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
 Fan System: HFC-3 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
 Fans:  
 FAN 2 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.00 fan energy index, fan exception: Single fan < 1 HP or < 0.89 kW
- MUA-1 (Single Zone):  
 Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h, Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE  
 Cooling: 1 each - DX DOAS (Dehumidification), Capacity = 63 kBtu/h, Air-Cooled Condenser, Air Economizer  
 Proposed Efficiency = 6.12 ISMRE, Required Efficiency = 4.00 ISMRE  
 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00  
 Fan System: MUA-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes  
 Fans:  
 FAN 3 Supply, Constant Volume, 1300 CFM, 1.5 motor nameplate hp, 0.00 fan energy index, fan exception: Part of code listed equipment

Project Title: 25135 - Steamboat Basecamp 2 Report date: 03/11/26  
 Data filename: Page 1 of 11

**Quantity System Type & Description**

- VWH/ST:  
 Gas Storage Water Heater, Capacity: 430 gallons, Input Rating: 850 kBtu/h w/ Circulation Pump  
 Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

**Mechanical Compliance Statement**

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael Vair, PE Name: Title: Signature: 3/11/2026 Date:

Project Title: 25135 - Steamboat Basecamp 2 Report date: 03/11/26  
 Data filename: Page 2 of 11

**DETAIL NOTES THIS SHEET**

- REFER TO ARCHITECTURAL ELEVATIONS FOR LOUVER LOCATIONS.
- TERMINATE ENVIRONMENTAL EXHAUST WITH 'XVENT' MODEL 6SEB-BR WALL CAP. TERMINATION MUST BE 3'-0" MINIMUM FROM ANY BUILDING OPENINGS. SEE ARCHITECTURAL ELEVATIONS FOR TERMINATION LOCATION.
- TERMINATE OUTSIDE AIR INTAKE WITH 'XVENT' MODEL 6SEB-BR WALL CAP. BALANCE TO AIRFLOW SHOWN IN VENTILATION CALCULATION ON SHEET M0601. SEE ARCHITECTURAL ELEVATIONS FOR TERMINATION LOCATION.
- CONNECT 6" Ø DUCT TO MUA SUPPLY AIR DUCT. BALANCE TO 30 CFM PER VENTILATION CALCULATION ON SHEET M0601. PROVIDE FIRE DAMPER AT SHAFT PENETRATION.
- VESTIBULE CUH-1 TO BE LIMITED TO 60" SETPOINT TO COMPLY WITH 2021 IECC.
- EF-1 TO OPERATE WITH ROOM LIGHT SWITCH. REFER TO ELECTRICAL PLANS.

APPROVAL STAMPS:

**SUBMISSIONS & REVISIONS**

OWNER

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT

**KASA**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T: 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T: 303.444.8633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T: 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T: 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T: 303.892.7062

PROJECT LOCATION

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

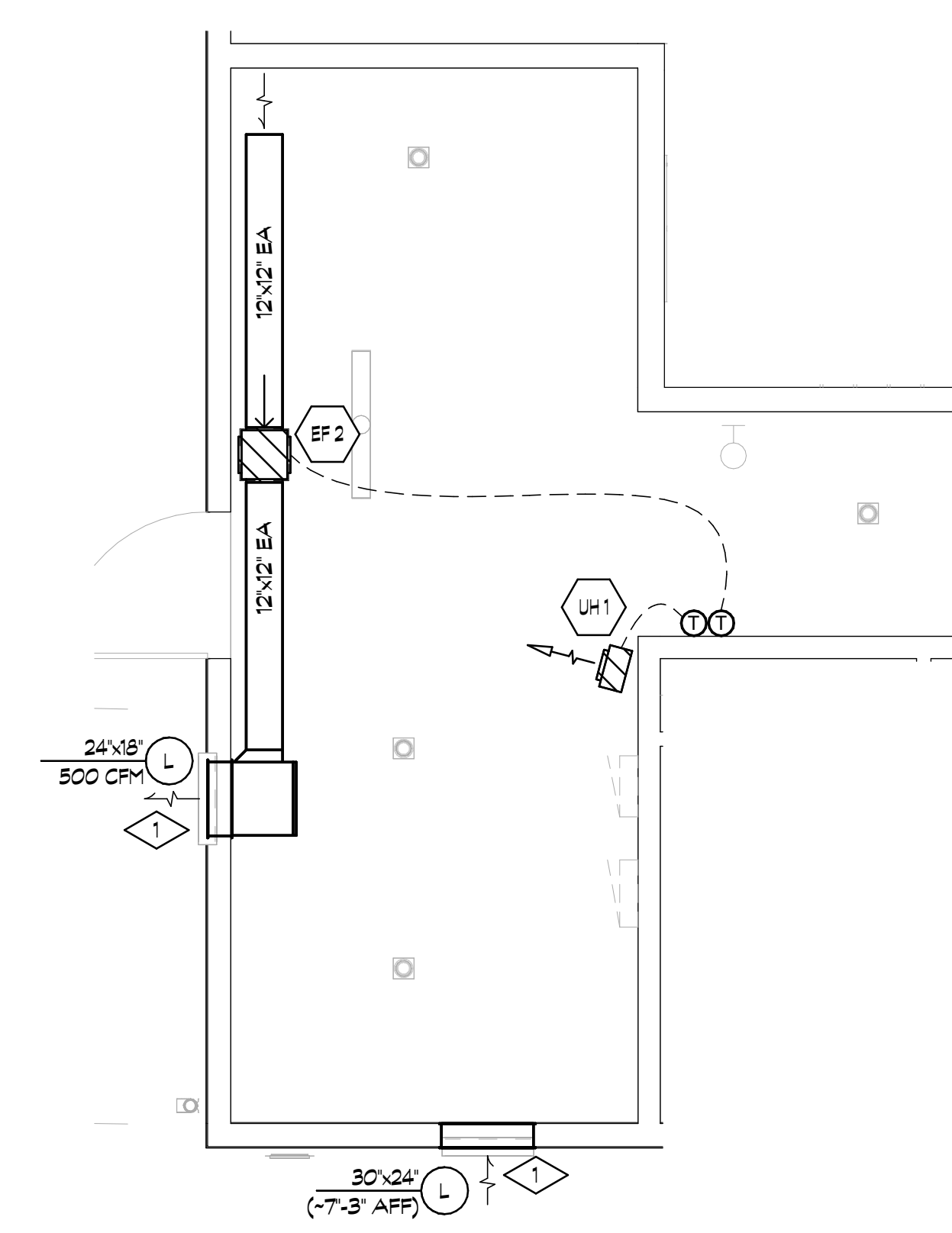
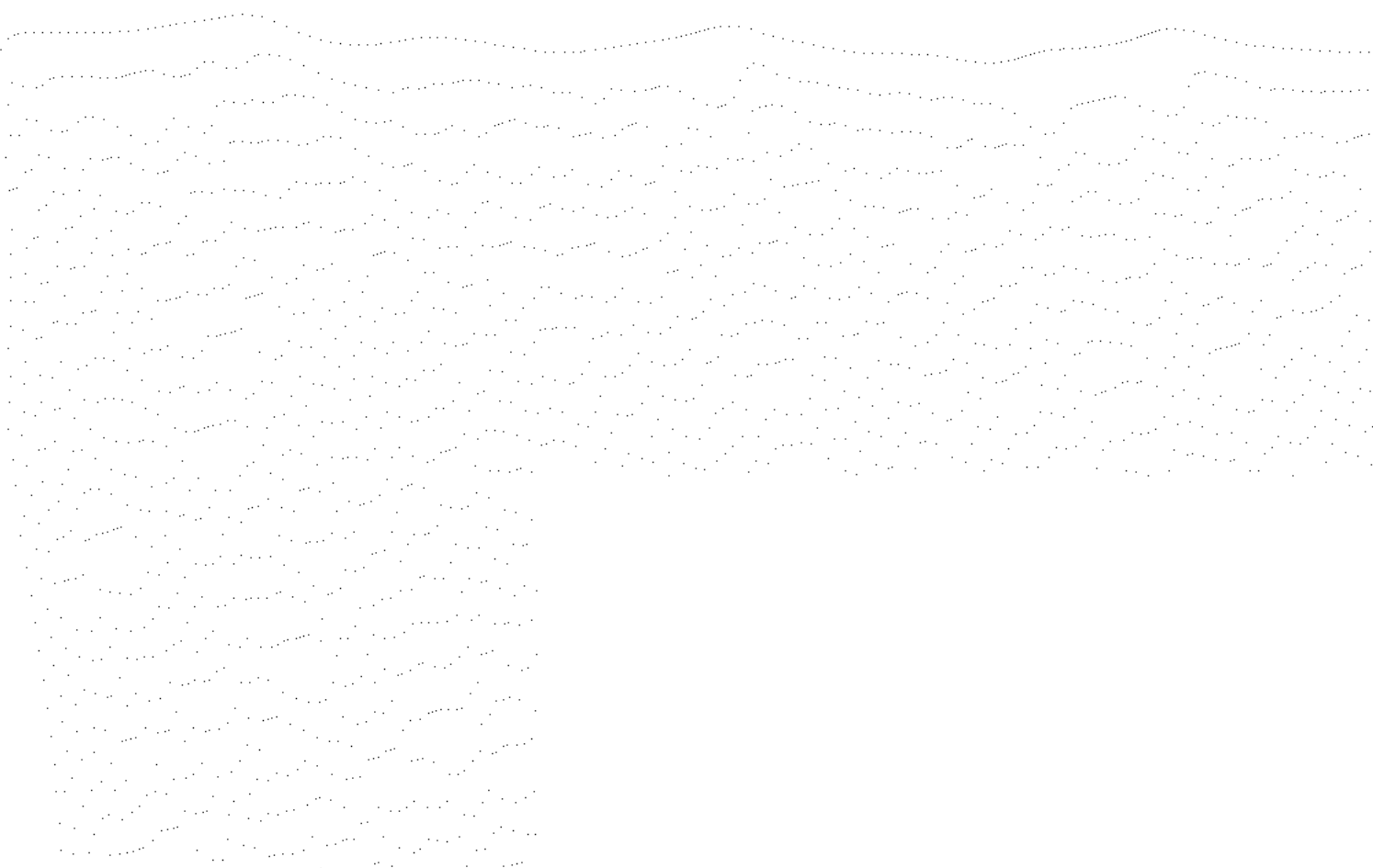
1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487

**ENLARGED MECHANICAL PLANS & COMCHECK**

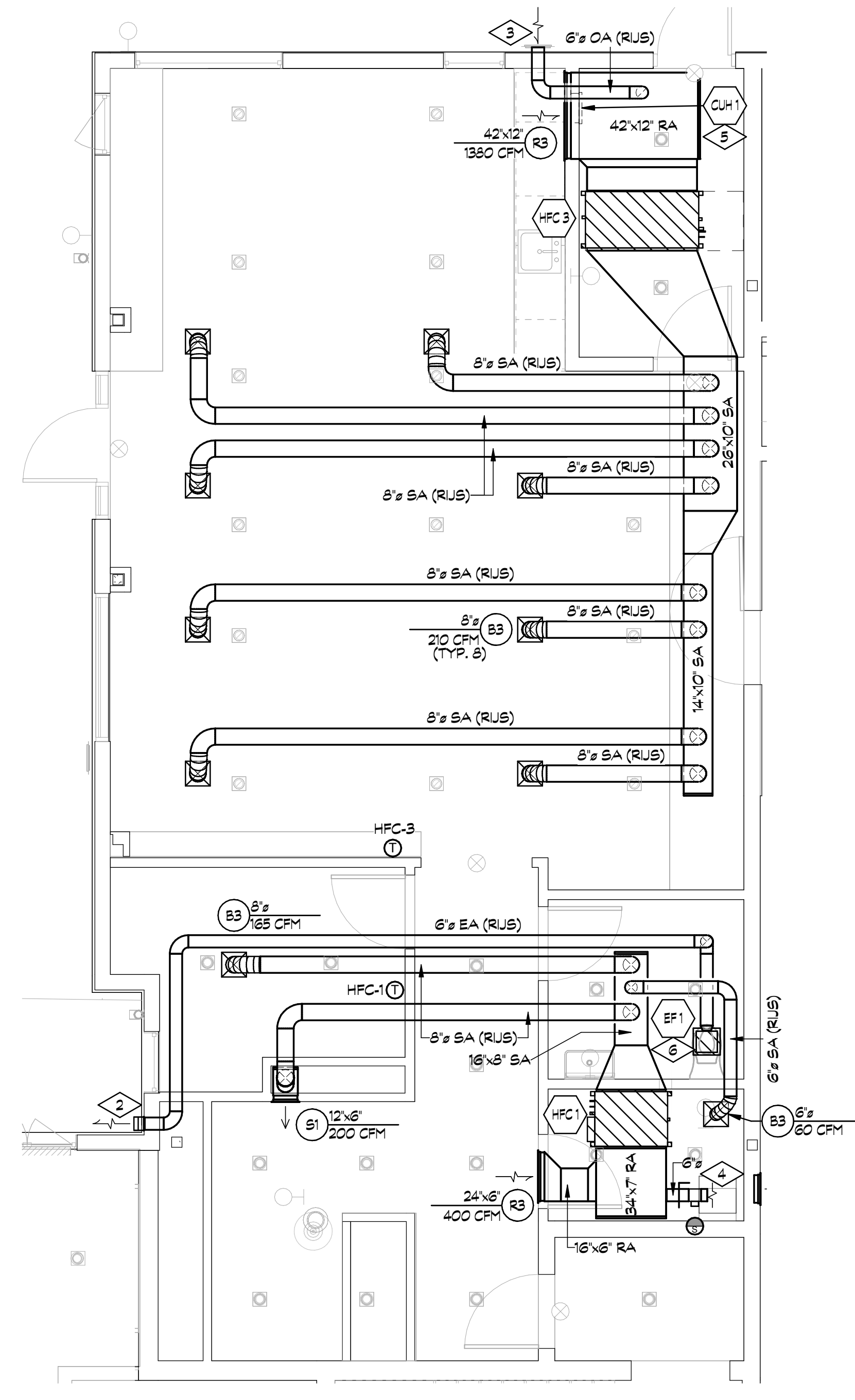
SEAL: DATE: 03.13.2026  
 DRAWN BY: MO  
 CHECKED BY: MV  
 PROJECT NO: 25135

DRAWING NO:

**M0401**



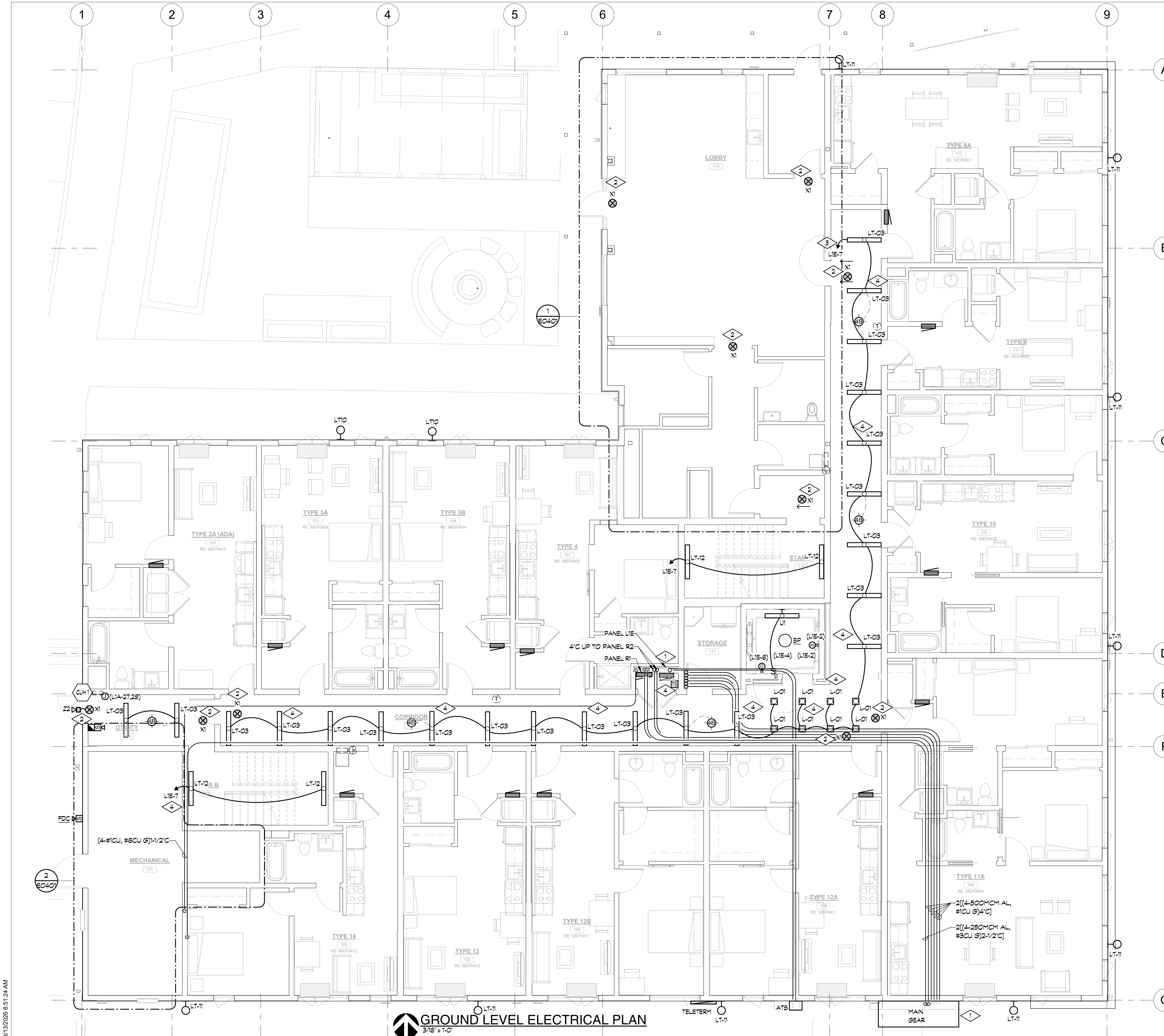
**2 ENLARGED MECHANICAL ROOM HVAC PLAN**  
 1/4" = 1'-0"



**1 ENLARGED LOBBY HVAC PLAN**  
 1/4" = 1'-0"







**GENERAL NOTES**

- A. IN THE CASE OF A DISCREPANCY BETWEEN GENERAL NOTES, DETAIL NOTES, SPECIFICATION, OR GRAPHICAL DEPICTIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY DESIGN INTENT WITH ENGINEER.
- B. ELECTRICAL CONDUITS, WATER, SEWER AND GAS LINES MUST FIT WITHIN WALLS. CONFLICTS WITH OTHER TRADES MUST BE COORDINATED OR WORK WILL BE REDONE.
- C. GFCI PROTECTION: BASIS OF DESIGN IS GFCI PROTECTION PROVIDED AT PANEL. EC MAY PROVIDE ALTERNATE PRICING WHERE PERMITTED BY CODE TO PROVIDE DOWNSTREAM GFCI PROTECTION OF DEVICES WITH A SINGLE GFCI RECEPTACLE. (DEDICATED NEUTRAL SHALL BE PROVIDED FOR GFCI BREAKERS).
- D. PROVIDE TAMPER RESISTANT RECEPTACLES IN THE FOLLOWING AREAS PER NEC 406.12.
  - a. DWELLING UNITS, GUEST ROOMS, DORMITORY UNITS.
- E. COORDINATE ALL DEVICE AND FIXTURE LOCATIONS WITH FURNITURE, EQUIPMENT, MILLWORK AND MECHANICAL SYSTEM (DUCTWORK) LAYOUT PRIOR TO ROUGH-IN.
- F. ALL EXTERIOR ELECTRICAL COMPONENTS SHALL MEET ALL NEC INSTALLATION AND LABELING REQUIREMENTS FOR WET LOCATIONS.

**DETAIL NOTES THIS SHEET**

1. PROPOSED ELECTRICAL SERVICE/GEAR. FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
2. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
3. LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR DIMMED TO 50%. HALLWAYS AND STAIRS ARE ALWAYS ON.
4. PROPOSED LOCATION FOR LIGHTING CONTROL PANEL. PROVIDE DEDUCT ALTERNATE PRICING FOR ASTRONOMICAL TIMECLOCK (INTERMATIC ET8215C OR EQUIVALENT).
5. LIGHTING TO BE ON GENERATOR WHEN THE POWER IS TURNED OFF.

APPROVAL STAMPS:

No.	Date	Description
<b>SUBMISSIONS &amp; REVISIONS</b>		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>K A S A</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

PROJECT LOCATION

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

**GROUND LEVEL ELECTRICAL PLAN**

SEAL

DATE: 03.13.2026

DRAWN BY: OD/SG

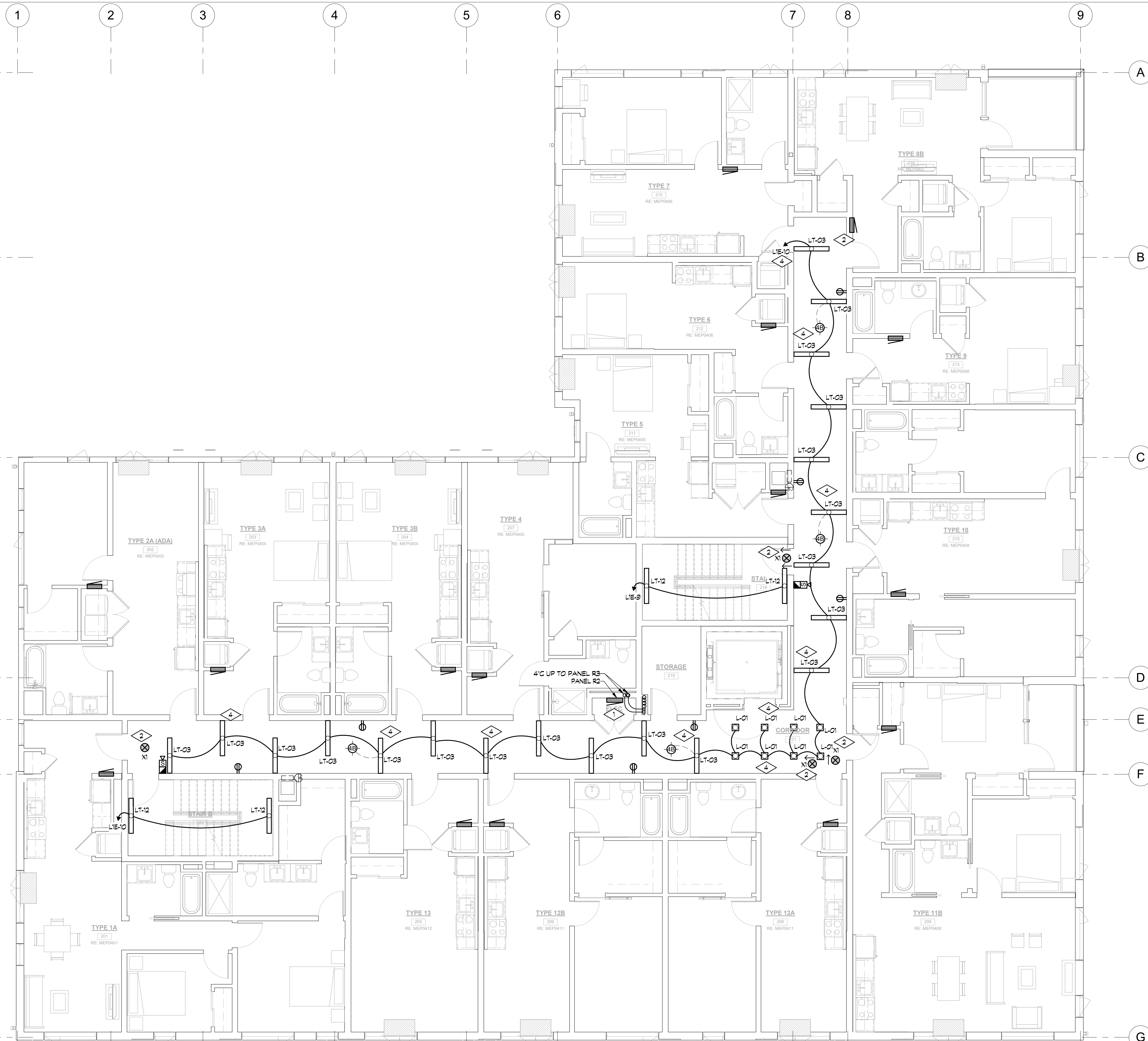
CHECKED BY: MV

PROJECT NO: 25135

DRAWING NO: **E0201**

**GROUND LEVEL ELECTRICAL PLAN**  
3/16" = 1'-0"

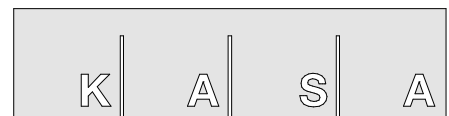
3/13/2026 8:51:24 AM



**DETAIL NOTES THIS SHEET**

1. PROPOSED ELECTRICAL SERVICE/GEAR. FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
2. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
3. LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR DIMMED TO 50%. HALLWAYS AND STAIRS ARE ALWAYS ON.
4. LIGHTING TO BE ON GENERATOR WHEN THE POWER IS TURNED OFF.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
 <b>KEVIN &amp; ASAKO SPERRY ARCHITECTURE</b> 3318 N. Columbus Street Arlington, VA 22207 T. 312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9434		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		

**OWNER**

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

**ARCHITECT**

  
**KEVIN & ASAKO SPERRY ARCHITECTURE**  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T. 312.636.3248 / 312.636.4252  
 www.kasa-arch.com

**GENERAL CONTRACTOR**

**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T. 303.444.6633

**CIVIL ENGINEER**

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T. 970.871.9434

**LANDSCAPE ARCHITECT**

**STRUCTURAL ENGINEER**

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T. 303.384.9910

**M.E.P. ENGINEERS**

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T. 303.444.6038

**INTERIOR DESIGNER:**

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T. 303.892.7062

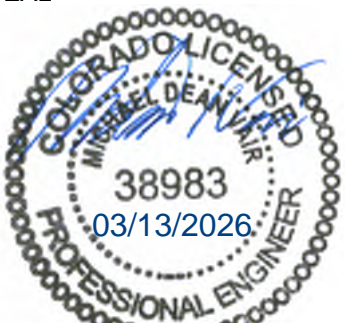
**PROJECT LOCATION**

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**  
 1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487  
 DRAWING TITLE

**SECOND LEVEL ELECTRICAL PLAN**

SEAL

DATE: 03.13.2026  
 DRAWN BY: OD/SG  
 CHECKED BY: MV  
 PROJECT NO: 25135



DRAWING NO:

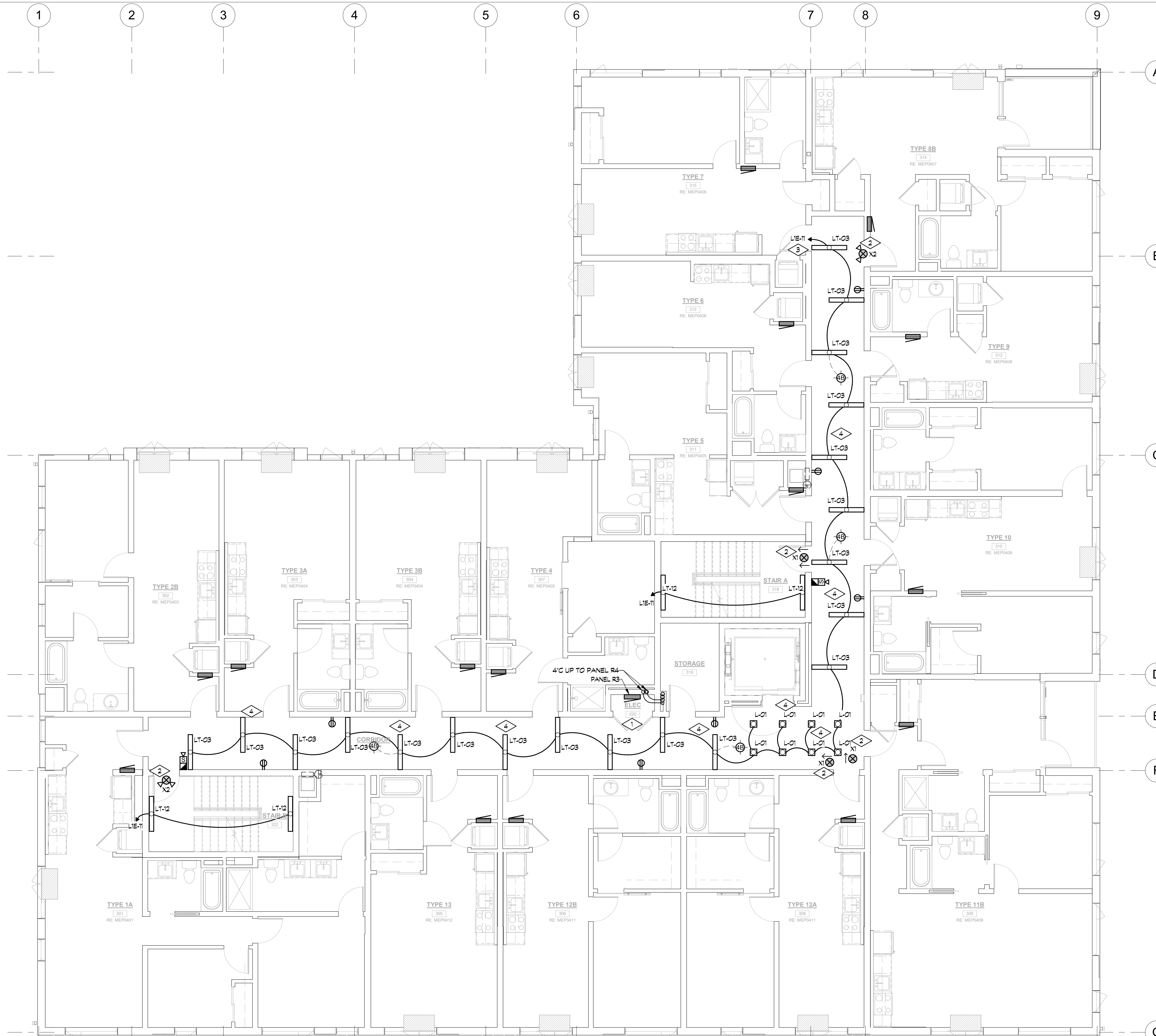
**E0202**

**SECOND LEVEL ELECTRICAL PLAN**  
 3/16 = 1'-0"

3/13/2026 8:51:26 AM

### DETAIL NOTES THIS SHEET

1. PROPOSED ELECTRICAL SERVICE/GEAR, FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
2. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
3. LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR DIMMED TO 50%. HALLWAYS AND STAIRS ARE ALWAYS ON.
4. LIGHTING TO BE ON GENERATOR WHEN THE POWER IS TURNED OFF.



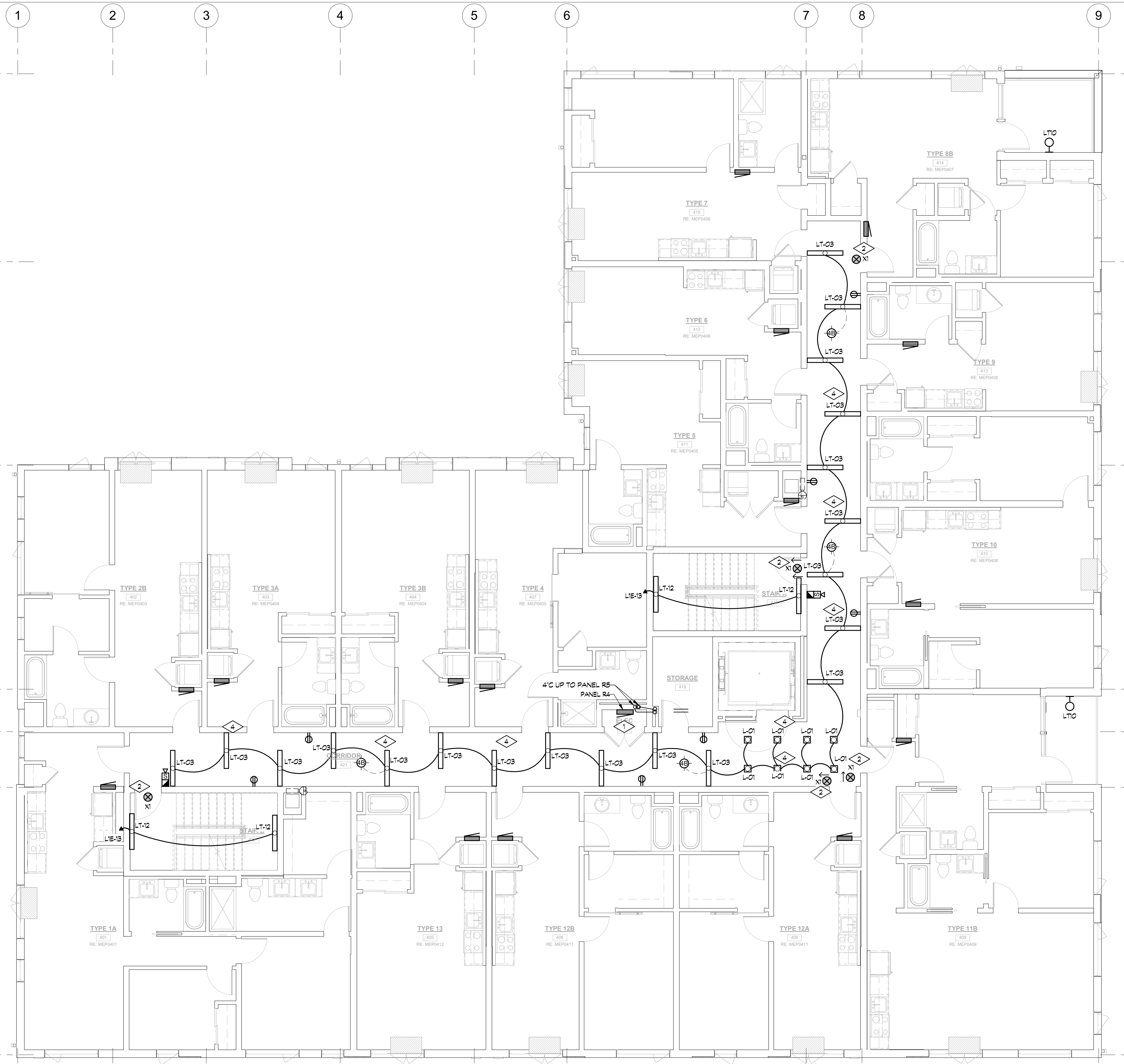
**THIRD LEVEL ELECTRICAL PLAN**  
3/16" = 1'-0"

3/13/2026 8:51:28 AM

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
 <b>KEVIN &amp; ASAKO SPERRY ARCHITECTURE</b> 3318 N. Columbus Street Arlington, VA 22207 T.312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T. 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T. 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T. 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80302 T. 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynnkoop St., Suite 100 Denver, CO 80202 T. 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487		
DRAWING TITLE		
<b>THIRD LEVEL ELECTRICAL PLAN</b>		
SEAL	DATE:	
	03.13.2026	
	DRAWN BY:	
	OD/SG	
	CHECKED BY:	
MV		
PROJECT NO:		
25135		
DRAWING NO:	<b>E0203</b>	

COPYRIGHT 2019



- ### DETAIL NOTES THIS SHEET
- PROPOSED ELECTRICAL SERVICE/GEAR, FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
  - EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
  - LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR DIMMED TO 50%. HALLWAYS AND STAIRS ARE ALWAYS ON.
  - LIGHTING TO BE ON GENERATOR WHEN THE POWER IS TURNED OFF.

APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		

OWNER

**MAY REIGLER PROPERTIES**  
 2201 Wisconsin Ave NW Suite 200  
 Washington, DC 20007  
 www.mayregler.com

ARCHITECT

**K A S A**  
 KEVIN & ASAKO SPERRY ARCHITECTURE  
 3318 N. Columbus Street  
 Arlington, VA 22207  
 T.312.636.3248 / 312.636.4252  
 www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUE CONSTRUCTION**  
 2344 Spruce Street  
 Boulder, CO 80302  
 T: 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
 141 9th Street, PO Box 774943  
 Steamboat Springs, CO 80477  
 T: 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
 1717 Washington Ave.  
 Golden, CO 80401  
 T: 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
 1717 15th Street  
 Boulder, CO 80302  
 T: 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
 1600 Wynkoop St., Suite 100  
 Denver, CO 80202  
 T: 303.892.7062

PROJECT LOCATION

**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

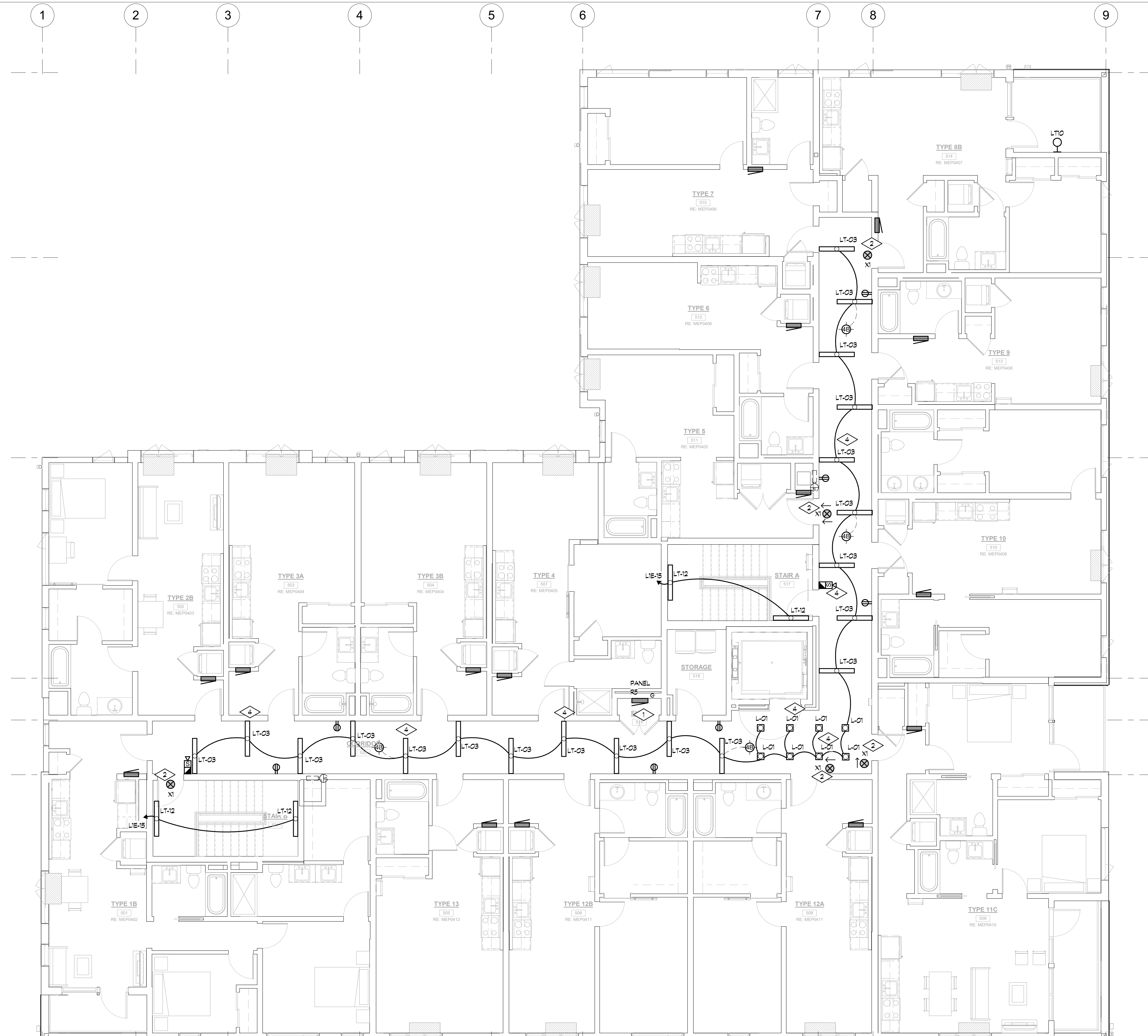
1901 CURVE PLAZA  
 STEAMBOAT SPRINGS, CO 80487  
 DRAWING TITLE

**FOURTH LEVEL ELECTRICAL PLAN**

	DATE:	03.13.2026
	DRAWN BY:	OD/SG
	CHECKED BY:	MV
	PROJECT NO:	25135
	DRAWING NO:	<b>E0204</b>

### DETAIL NOTES THIS SHEET

1. PROPOSED ELECTRICAL SERVICE/GEAR, FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
2. EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
3. LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR DIMMED TO 50%. HALLWAYS AND STAIRS ARE ALWAYS ON.
4. LIGHTING TO BE ON GENERATOR WHEN THE POWER IS TURNED OFF.



APPROVAL STAMPS:

No.	Date	Description
SUBMISSIONS & REVISIONS		
OWNER		
<b>MAY REIGLER PROPERTIES</b> 2201 Wisconsin Ave NW Suite 200 Washington, DC 20007 www.mayregler.com		
ARCHITECT		
<b>KASA</b> KEVIN & ASAKO SPERRY ARCHITECTURE 3318 N. Columbus Street Arlington, VA 22207 T.312.636.3248 / 312.636.4252 www.kasa-arch.com		
GENERAL CONTRACTOR		
<b>DENEUE CONSTRUCTION</b> 2344 Spruce Street Boulder, CO 80302 T: 303.444.6633		
CIVIL ENGINEER		
<b>LANDMARK ENGINEERING</b> 141 9th Street, PO Box 774943 Steamboat Springs, CO 80477 T: 970.871.9494		
LANDSCAPE ARCHITECT		
STRUCTURAL ENGINEER		
<b>KL&amp;A ENGINEERS &amp; BUILDERS</b> 1717 Washington Ave. Golden, CO 80401 T: 303.384.9910		
M.E.P. ENGINEERS		
<b>BOULDER ENGINEERING</b> 1717 15th Street Boulder, CO 80502 T: 303.444.6038		
INTERIOR DESIGNER:		
<b>JOHNSON NATHAN STROHE</b> 1600 Wynkoop St., Suite 100 Denver, CO 80202 T: 303.892.7062		
PROJECT LOCATION		
<b>STEAMBOAT BASECAMP AREA 1B RESIDENTIAL</b> 1901 CURVE PLAZA STEAMBOAT SPRINGS, CO 80487		
DRAWING TITLE		
<b>FIFTH LEVEL ELECTRICAL PLAN</b>		
SEAL	DATE:	
	03.13.2026	
DRAWN BY:	OD/SG	
CHECKED BY:	MV	
PROJECT NO:	25135	
DRAWING NO:	<b>E0205</b>	

3/13/2026 8:51:52 AM

**FIFTH LEVEL ELECTRICAL PLAN**  
3/16" = 1'-0"

COPYRIGHT 2019



LUMINAIRE SCHEDULE						
KEY	LAMP	DESCRIPTION	CELL/G (DEPTH)	DIM	MANUFACTURER/#	VOLT
L01	10.5W LED 3000K 800 LUM	4" PLUCK STYLE DOWNLIGHT	SURFACE		JUNO / J5BT 4IN 30CRI WL MW	120
L02	18.5W LED 3000K 2000 LUM	FAN/LIGHT COMBO	PENDANT		SWANSON 44	120
LT03	20W LED 3000K 2000 LUM	4'-0" FLUSH LINEAR	FLUSH		NULITE / RS2-05-L30-U-FRL-4	120
LT03 (ALT)	40W LED 3400K 2000 LUM	4'-0" FLUSH LINEAR	FLUSH		SPITZER / LAR 44 CC	120
L04	(3) 10W LED 3000K 3000 LUM	KITCHEN TRACK	TRACK		WAC / HT4-BK / HLE-BK / H-2010-330-BK	120
L05	18W LED 3000K 1500 LUM	BATHROOM VANITY	WALL		KUZZO - AKARI / VL18532	120
L07	12W LED 3000K 1200 LUM	DECORATIVE PENDANT	PENDANT		FOSCARINI / APLOMB LARGE PENDANT	120
L08	10W LED 2700K 1000 LUM	RESTROOM VANITY - GLOBE SCONCE	WALL		CEDAR & MOSS / ELLA SCONCE	120
LT12	38W LED 3000K 5000 LUM	4'-0" LONG DIE FORMED LINEAR W/ INTEGRAL OCC	SURFACE / WALL		LITHONIA LIGHTING / CBS L48 5000LM MVOLT MINIO 2T 30K 30CRI	120
S1	32W LED 3000K 5000 LUM	4'-0" LONG DIE FORMED INDUSTRIAL STRIP W/ DROP ROUND/SQUARE LENS	SURFACE		LITHONIA LIGHTING / CLX L48 5000LM HEF RD. 6210 30K 30CRI NEGXX	120
U1	LED, 61W, 12000 LUMENS, 4000K	ELEVATOR PIT LIGHT, MOUNT (1) AT BOTTOM OF PIT AND (1) AT TOP OF HOISTWAY, 0-10V DIMMING, PROVIDE STANGALONE DIMMER AT BOTTOM OF HOISTWAY, SURFACE MOUNT WITH 120" DIFFUSED LENS	WALL		GE ABV3 0 12 T 47 ID Q V 5M K Q W	120/277
X1	FURN	EXIT SIGN, GREEN LED EDGE LIT FACE, UNIVERSAL MOUNTING, 30 MIN BATTERY PACK, FINISH BY ARCHITECT	UNIVERSAL		BELP / EDG-(MOUNTING)-15C-(TRIM)-(OPTIONS)	120
Z2	FURN	DIE CAST EMERGENCY LIGHTING UNIT, WET LOCATION, COLD WEATHER	WALL		BELP / OWEL-(OUTPUT)-EM-(FINISH)-CV-(OPTIONS)	120

NOTES: \*NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING  
\*VERIFY CEILING INSULATION W/ GC AND NOTIFY ENGINEER OF ANY IC RATING CONFLICTS PRIOR TO ORDERING

MECHANICAL EQUIPMENT						
KEY	DESCRIPTION	LOAD	VOLT	CIRCUIT	CONNECTION	REMARKS
PTHP 9	PACKAGED TERMINAL HEAT PUMP	21.5 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 25 FRN	
PTHP 13	PACKAGED TERMINAL HEAT PUMP	26.4 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 30 FRN	
PTHP 15	PACKAGED TERMINAL HEAT PUMP	26.4 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 30 FRN	
PTHP 15	PACKAGED TERMINAL HEAT PUMP	25 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 25 FRN	
KF 1	KITCHEN EXHAUST FAN	1 A	208/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
VF 1	VENTILATION EXHAUST FAN	1 A	208/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
EF 1	CEILING EXHAUST FAN	23 W	120/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
EF 2	INLINE FAN	3.5 MCA	120/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
HFC 1	HORIZONTAL FAN COIL UNIT	3.5 MCA	208/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
HP 1	HEAT PUMP CONDENSING UNIT	25 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 25 FRN	
HFC 3	HORIZONTAL FAN COIL UNIT	3.5 MCA	208/1	(2-#12,#12Ø) 1/2"C	THERMAL O.L.	
HP 3	HEAT PUMP CONDENSING UNIT	29 MCA	208/1	(2-#10,#10Ø) 1/2"C	30/2; 30 FRN	
MUA1 A/B	MAKE UP AIR UNIT	27.8 MCA	208/3	(3-#10,#10Ø) 1/2"C	30/3; 30 FRN	
CUH	ELECTRIC CABINET WALL HEATER	16.7 A	208/1	(2-#10,#10Ø) 1/2"C	J-BOX	
BB 34	ELECTRIC BASEBOARD	3.1 A	208/1	(2-#12,#12Ø) 1/2"C	J-BOX	
BB 70	ELECTRIC BASEBOARD	6.3 A	208/1	(2-#12,#12Ø) 1/2"C	J-BOX	
PI A/B/C/D	WATER HEATER RECIRC PUMP	760 W	208/1	(2-#12,#12Ø) 1/2"C	30/2; 6 FRN	
P2 A/B	WATER HEATER RECIRC PUMP	760 W	208/1	(2-#12,#12Ø) 1/2"C	30/2; 6 FRN	
SP	SUBMERSIBLE SUMP PUMP	12.3 MCA	120/1	(2-#12,#12Ø) 1/2"C	5-20R	

NOTES: \*TEMPERATURE RATING OF ALL DEVICES COULD NOT BE VERIFIED, THEREFORE WIRE IS SIZED BASED ON 90C PER NEC 110.14(C)(1)(c)

### DETAIL NOTES THIS SHEET

- PROPOSED ELECTRICAL SERVICE/GEAR, FIELD VERIFY EXACT LOCATION, MAINTAIN REQUIRED CLEARANCES PER NEC.
- EXTEND EMERGENCY/EXIT LIGHTING TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.
- LIGHTING IN THIS AREA CONTROLLED VIA OCCUPANCY SENSOR, DIMMED TO 50%.
- COORDINATE WIRING OF SOLENOID VALVES FOR FIRE PIT AND GAS GRILL WITH PLUMBING CONTRACTOR.
- SEE SITE PLAN FOR MORE INFORMATION ON EXTERIOR LIGHTING.

APPROVAL STAMPS:

NO. DATE DESCRIPTION  
SUBMISSIONS & REVISIONS

OWNER

**MAY REIGLER PROPERTIES**  
2201 Wisconsin Ave NW Suite 200  
Washington, DC 20007  
www.mayreigler.com

ARCHITECT

**KASA**  
KEVIN & ASAKO SPERRY ARCHITECTURE  
3318 N. Columbus Street  
Arlington, VA 22207  
T. 312.636.3248 / 312.636.4252  
www.kasa-arch.com

GENERAL CONTRACTOR

**DENEUE CONSTRUCTION**  
2344 Spruce Street  
Boulder, CO 80302  
T. 303.444.6633

CIVIL ENGINEER

**LANDMARK ENGINEERING**  
141 9th Street, PO Box 774943  
Steamboat Springs, CO 80477  
T. 970.871.9434

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

**KL&A ENGINEERS & BUILDERS**  
1717 Washington Ave.  
Golden, CO 80401  
T. 303.384.9910

M.E.P. ENGINEERS

**BOULDER ENGINEERING**  
1717 15th Street  
Boulder, CO 80302  
T. 303.444.6038

INTERIOR DESIGNER:

**JOHNSON NATHAN STROHE**  
1600 Wynkoop St., Suite 100  
Denver, CO 80202  
T. 303.892.7062

PROJECT LOCATION

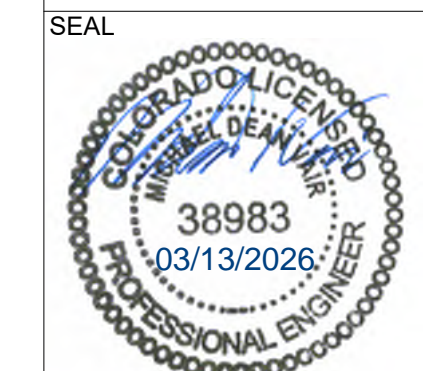
**STEAMBOAT BASECAMP AREA 1B RESIDENTIAL**

1901 CURVE PLAZA  
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

**ENLARGED ELECTRICAL PLANS**

SEAL



DATE:

03.13.2026

DRAWN BY:

OD/SG

CHECKED BY:

MV

PROJECT NO:

25135

DRAWING NO:

**E0401**

COPYRIGHT 2019

## COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

### Project Information

Energy Code: 2021 IECC  
Project Title: 25135 - Steamboat Basecamp 2  
Project Type: New Construction

Construction Site: 1901 Curve Plaza, Steamboat Springs, Colorado 80487  
Owner/Agent:  
Designer/Contractor: Boulder Engineering Co, 1717 15th Street, Boulder, Colorado 80302, 303-444-6038

### Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

### Allowed Interior Lighting Power

Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-MECHANICAL (Common Space Types:Electrical/Mechanical)	392	0.43	169
2-LOBBY (Common Space Types:Lobby - General)	1317	0.84	1106
3-CORRIDOR (Common Space Types:Corridor/Transition >=8 ft wide)	4216	0.41	1729
4-STAIRWELL (Common Space Types:Stairwell)	1520	0.49	745
Total Allowed Watts =			3748

### Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-MECHANICAL (Common Space Types:Electrical/Mechanical)				
LED: L-01: DOWNLIGHT; Other:	1	4	10	42
LED: S1: STRIP LIGHT; Other:	1	1	42	42
2-LOBBY (Common Space Types:Lobby - General)				
LED: L-01: DOWNLIGHT; Other:	1	30	10	315
LED: L-08: VANITY; Other:	1	1	10	10
LED: L-07: PENDANT; Other:	1	1	12	12
3-CORRIDOR (Common Space Types:Corridor/Transition >=8 ft wide)				
LED: LT-03: STRIP LIGHTS; Other:	1	60	20	1200
LED: L-01: DOWNLIGHT; Other:	1	40	10	420
4-STAIRWELL (Common Space Types:Stairwell)				
LED: LT-12: STRIP LIGHT; Other:	1	20	20	400
LED: LT-03: STRIP LIGHT; Other:	1	2	20	40
Total Proposed Watts =				2481

Project Title: 25135 - Steamboat Basecamp 2

Report date: 03/12/26

Data filename:

Page 1 of 6

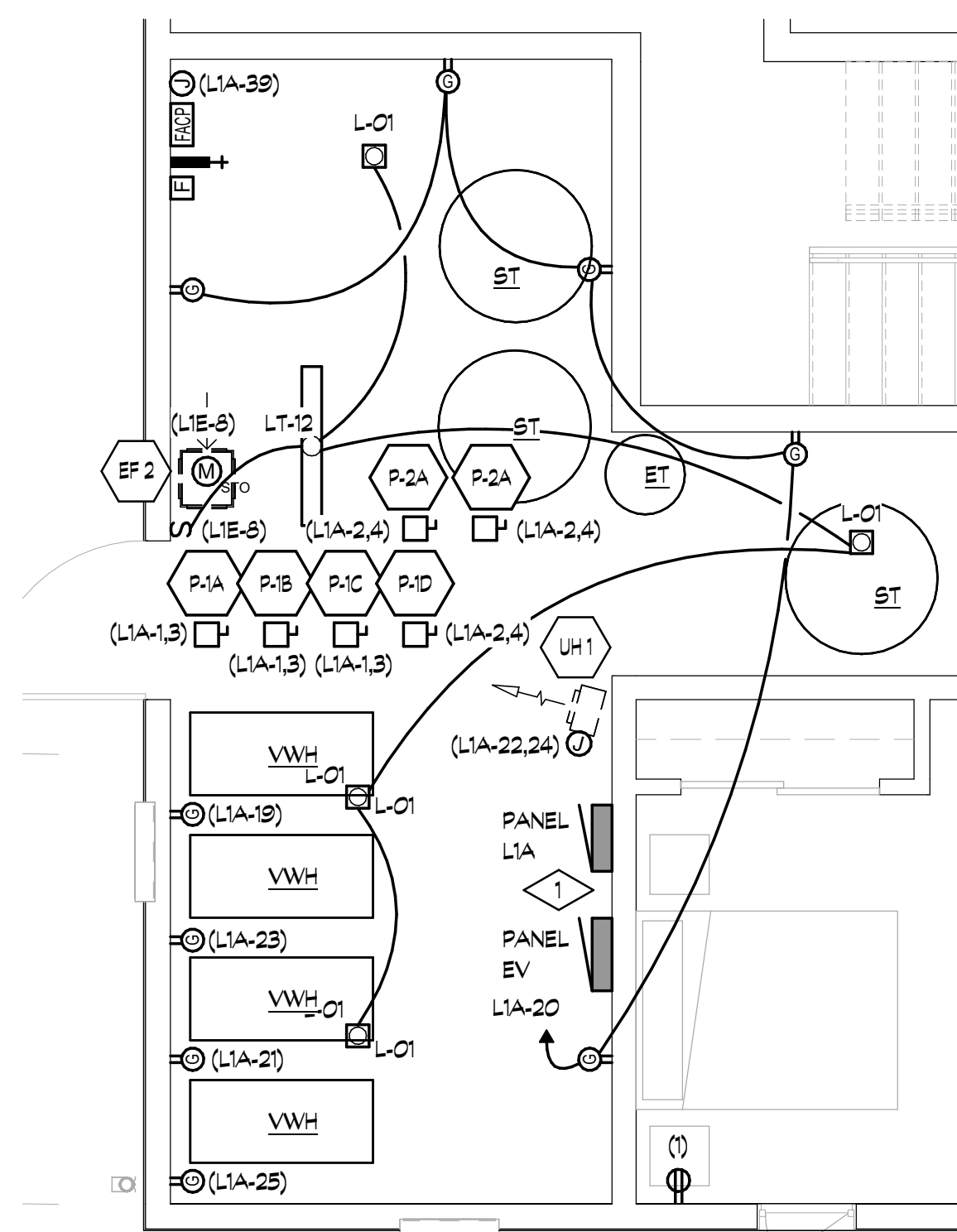
Interior Lighting PASSES: Design 34% better than code

### Interior Lighting Compliance Statement

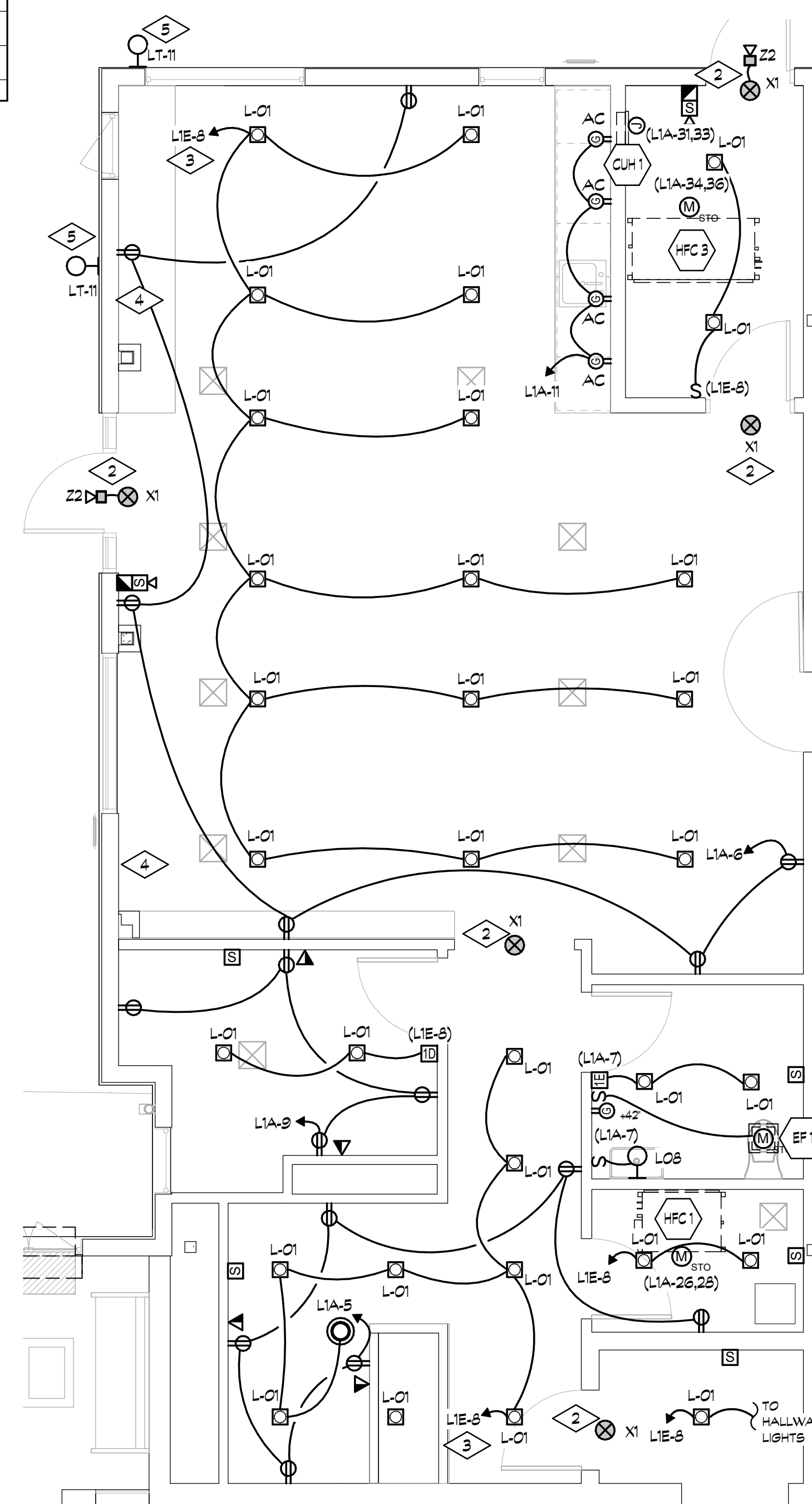
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael Vair, PE  
Name - Title  
Signature  
3/12/2026  
Date

2 ENLARGED MECHANICAL ROOM ELECTRICAL PLAN  
1/4" = 1'-0"



1 ENLARGED LOBBY ELECTRICAL PLAN  
1/4" = 1'-0"



LEGEND table listing symbols for MAIN DISTRIBUTION CENTER, PANELBOARD, ELECTRIC SERVICE METER, CURRENT TRANSFORMER, TRANSFORMER, SURGE PROTECTION DEVICE, CONCEALED CIRCUIT, UNDERFLOOR / UNDERGROUND CIRCUIT, EXPOSED CIRCUIT, WIREMOLD (SURFACE WIREWAY), PLUGMOLD, HOMERUN TO PANELBOARD, CIRCUIT NUMBER(S) FOR SPECIFIED PANEL.

LEGEND table listing symbols for CONDUIT TURNS UP, CONDUIT TURNS DOWN, JUNCTION BOX / CARD READER, PORCELAIN LAMP HOLDER, LIGHT FIXTURE, RECESSED LIGHT FIXTURE, WALL MOUNTED LIGHT FIXTURE, EXIT LIGHT, BATTERY PACK, SURFACE FLUORESCENT FIXTURE, RECESSED FLUORESCENT FIXTURE, SINGLE OUTLET, DUPLEX RECEPTACLE, CEILING DUPLEX RECEPTACLE, DUPLEX RECEPTACLE - GFCI, DUPLEX RECEPTACLE - GFCI BREAKER, DUPLEX RECEPTACLE - TAMPER RESIST, SPLIT WIRE DUPLEX, QUADRUPLEX (DOUBLE DUPLEX), COMB. SWITCH / RECEPTACLE, FLOOR MOUNTED RECEPTACLE, SPECIAL PURPOSE (AS NOTED), TELEVISION OUTLET, MOTOR OUTLET, TELEPHONE TERMINAL, TELEPHONE OUTLET, FLOOR MTD. TELEPHONE OUTLET, COMPUTER OUTLET, COMB. TEL/COMPUTER OUTLET, TOGGLE SWITCH, WALL MOUNTED LIGHTING CONTROL DEVICE, CEILING MOUNTED LIGHTING CONTROL DEVICE.

LEGEND table listing symbols for THERMOSTAT, TIME SWITCH, PHOTOCELL, PUSH-BUTTON STATION, SAFETY SWITCH, MOTOR STARTER, COMBINATION MOTOR STARTER, RELAY, FIRE ALARM CONTROL PANEL, ANNUNCIATOR, PULL STATION, HORN, HORN / LIGHT COMBINATION, HORN / STROBE, STROBE, BELL, OS & Y VALVE, FLOW SWITCH, ROOM DETECTOR (SMOKE), ROOM DETECTOR (THERMAL), DUCT DETECTOR, REMOTE INDICATING LIGHT / TEST SWITCH, DOOR HOLDER, CHIME, FUSED SWITCH, CIRCUIT BREAKER, GROUND CONNECTOR, MECHANICAL EQUIPMENT, DETAIL NOTE, KITCHEN / MEDICAL EQUIPMENT, EXISTING TO REMAIN, EXISTING TO BE RELOCATED, EXISTING TO BE DEMOLISHED.

LIGHTING CONTROL DEVICE SCHEDULE table with columns: KEY, MODE, DESCRIPTION, MOUNTING, MANUFACTURER#, VOLT. Includes entries for VACANCY, OCCUPANCY, and VACANCY / PHOTOCELL.

EV ELECTRICAL EQUIPMENT table with columns: KEY, DESCRIPTION, LOAD, VOLT, CIRCUIT, CONNECTION, REMARKS. Includes entries for EV READY and EV CAPABLE.

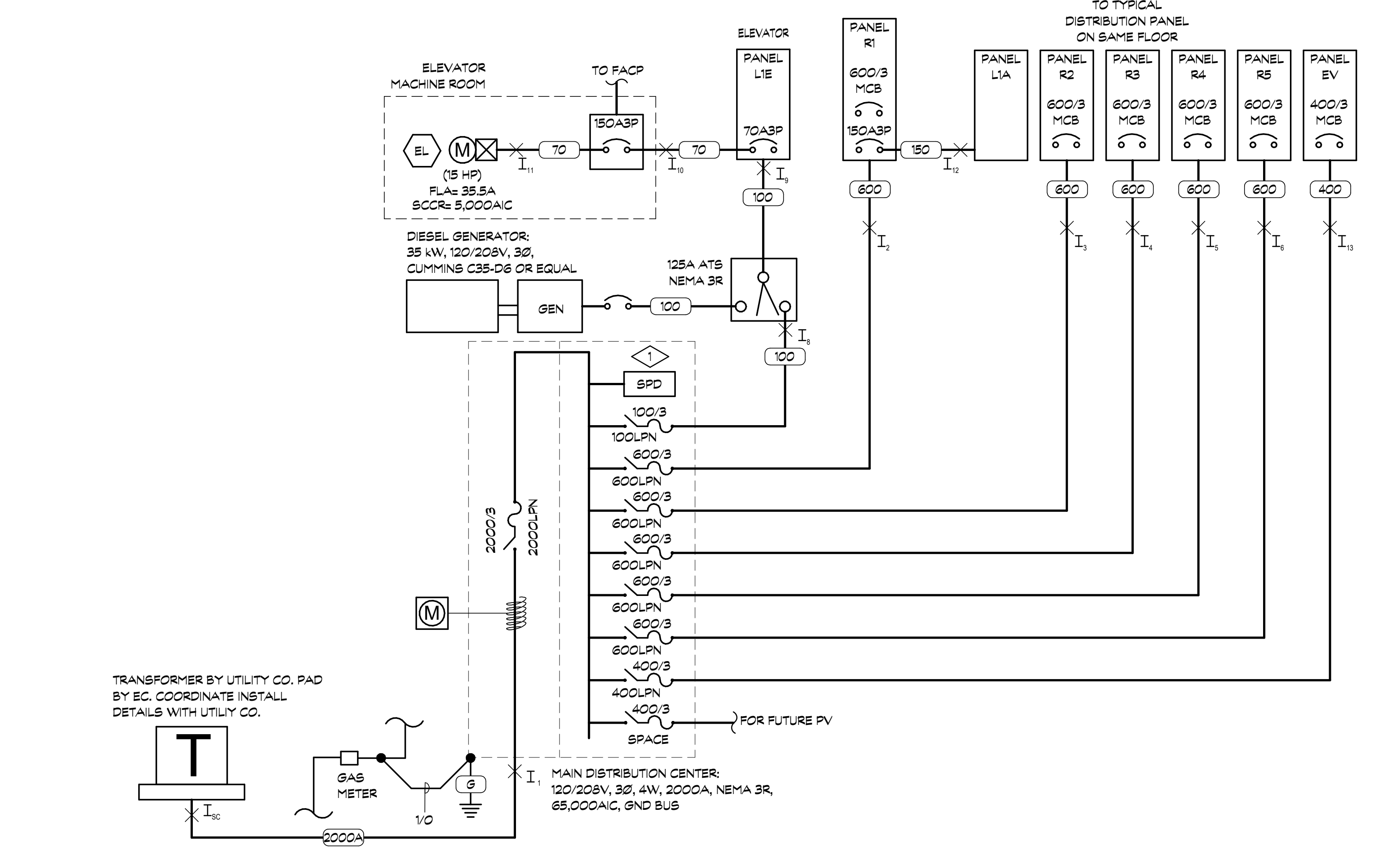
BUILDING RESIDENTIAL LOAD CALCS BASED UPON NEC 220.84 table showing calculations for (1) Appliance and Laundry Circuits, (2) Gen Lighting and Gen Use Receptacles, (3) Appliances, (4) Other Motor or Low P. F. Loads, (5) Plus 100% Larger of Heating/Cooling Load.

BUILDING LOAD SUMMARY table showing LOAD TYPE, CONN. LOAD, DEMAND FACT., EST. DEMAND. Includes categories for LIGHTING, ELECT. VEHICLE, RECEPTACLE, MOTOR, KITCHEN, OTHER, and EXISTING.

SHORT CIRCUIT CALCULATION table with columns: LOCATION, SECONDARY VOLTAGE, Ø, KVA, %Z, Isc AVAIL., I"m, Isc FAULT. Includes locations like MDC, PANEL R1, R2, R3, R4, R5, UNIT PNL, ATB, SHUNT BRKR, ELEVATOR, and PANEL L1A.

WIRING LEGEND table listing wire sizes and types for 70, 100, 150, 400, 600, 2000A, and 6 conductors.

LARGEST UNIT RESIDENTIAL LOAD CALCS BASED UPON NEC 220.82 table showing calculations for (1) Appliance and Laundry Circuits, (2) Gen Lighting and Gen Use Receptacles, (3) Appliances, (4) Other Motor or Low P. F. Loads, (5) Total of 'General' Loads, (6) Plus 100% Larger of Heating/Cooling Load.



ONE LINE DETAIL NOTES

- 1. PROVIDE INTEGRATED SURGE PROTECTION DEVICE, TYPE 1 OR 2, MINIMUM RATING OF 80KA, RECOMMEND 200KA PER PHASE.

APPROVAL STAMPS, SUBMISSIONS & REVISIONS, OWNER (MAY REIGLER PROPERTIES), ARCHITECT (KASA), GENERAL CONTRACTOR (DENEUE CONSTRUCTION), CIVIL ENGINEER (LANDMARK ENGINEERING), STRUCTURAL ENGINEER (KL&A ENGINEERS & BUILDERS), M.E.P. ENGINEERS (BOULDER ENGINEERING), INTERIOR DESIGNER (JOHNSON NATHAN STROHE), PROJECT LOCATION (STEAMBOAT BASECAMP AREA 1B RESIDENTIAL), DRAWING TITLE (ELECTRICAL DETAILS & SCHEDULES), SEAL (38983), DATE (03/13/2026), DRAWN BY (OD), CHECKED BY (MV), PROJECT NO. (25135), DRAWING NO. (E0901).

PANEL L1A

Table for Panel L1A: Supply from: Recessed Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 22,000AIC. Mains Type: MLO. Mains Rating: 150 A. Includes circuit descriptions like P-1A, Lobby Off & Pkg Rcpts, and load type summary.

PANEL R4

Table for Panel R4: Supply from: Building Mounting: Surface Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 600 A. Includes circuit descriptions like Unit 403, 402, 401, and load type summary.

PANEL R1

Table for Panel R1: Supply from: Building Mounting: Surface Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 600 A. Includes circuit descriptions like Unit 101, 103, 105, and load type summary.

PANEL EV

Table for Panel EV: Supply from: Building Mounting: Recessed Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 400 A. Includes circuit descriptions like EV Ready and load type summary.

PANEL R5

Table for Panel R5: Supply from: Building Mounting: Surface Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 600 A. Includes circuit descriptions like Unit 503, 502, 501, and load type summary.

PANEL R2

Table for Panel R2: Supply from: Building Mounting: Surface Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 600 A. Includes circuit descriptions like Unit 203, 202, 201, and load type summary.

PANEL L1E

Table for Panel L1E: Supply from: Building Mounting: Recessed Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 10,000AIC. Mains Type: MLO. Mains Rating: 100 A. Includes circuit descriptions like Elevator and Level 1 Hall Lighting, and load type summary.

PANEL R3

Table for Panel R3: Supply from: Building Mounting: Surface Enclosure, NEMA 1. Voltage: 120/208 Vwye. A.I.C. Rating: 65,000AIC. Mains Type: MCB. Mains Rating: 600 A. Includes circuit descriptions like Unit 303, 302, 301, and load type summary.

SUBMISSIONS & REVISIONS

Table for Submissions & Revisions with columns: No., Date, Description.

OWNER: MAY REIGLER PROPERTIES, 2201 Wisconsin Ave NW Suite 200, Washington, DC 20007, www.mayreigler.com

ARCHITECT: KASA ARCHITECTURE, 3318 N. Columbus Street, Arlington, VA 22207, T. 312.636.3248 / 312.636.4252, www.kasa-arch.com

GENERAL CONTRACTOR: DENEUE CONSTRUCTION, 2344 Spruce Street, Boulder, CO 80302, T. 303.444.6633

CIVIL ENGINEER: LANDMARK ENGINEERING, 141 9th Street, PO Box 774943, Steamboat Springs, CO 80477, T. 970.871.9494

STRUCTURAL ENGINEER: KL&A ENGINEERS & BUILDERS, 1717 Washington Ave., Golden, CO 80401, T. 303.384.9910

M.E.P. ENGINEERS: BOULDER ENGINEERING, 1717 15th Street, Boulder, CO 80502, T. 303.444.6038

INTERIOR DESIGNER: JOHNSON NATHAN STROHE, 1600 Wynton St., Suite 100, Denver, CO 80202, T. 303.892.7062

PROJECT LOCATION: STEAMBOAT BASECAMP AREA 1B RESIDENTIAL, 1901 CURVE PLAZA, STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE: ELECTRICAL PANEL SCHEDULES

SEAL: PROFESSIONAL ENGINEER, 38983, 03/13/2026

DATE: 03.13.2026, DRAWN BY: OD, CHECKED BY: MV, PROJECT NO: 25135

DRAWING NO: E0902

COPYRIGHT 2019



**DIVISION 26 - ELECTRICAL**

**SECTION 26 01 00 - GENERAL PROVISIONS**

**1.01 WORK INCLUDED:**

- A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Electrical Contractor. The general conditions of the specifications apply and are included in this part of this section.
  1. Power Distribution System
  2. Interior and Exterior Lighting System
  3. Telephone Raceway System
  4. Data Raceway System
  5. Fire Alarm System
  6. Emergency Lighting System
  7. Electric Heating System

**1.02 CODES AND REGULATIONS:**

- A. Comply with state and local codes, and utility company regulations. Final interpretations will be made by the local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:
  1. Building Code: 2021 International Building Code
  2. Plumbing Code: 2021 International Plumbing Code
  3. Mechanical Code: 2021 International Mechanical Code
  4. Fire Code: 2021 International Fire Code
  5. Gas Code: 2021 International Fuel Gas Code
  6. Energy Code: 2021 International Energy Conservation Code
  7. Electrical Code: 2023 National Electrical Code

**1.03 EQUIPMENT AND MATERIALS STANDARDS:**

- A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.

**1.04 CONTRACT DRAWINGS:**

- A. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural plans and locate all ceiling equipment where indicated on reflected ceiling plans.

**1.05 SHOP DRAWINGS:**

- A. Submit products data and/or shop drawings as required by the Architect for the following:
  1. Switches, dimmers, receptacles and coverplates
  2. Switchboards, Panelboards/Loadcenters
  3. Disconnect switches
  4. Fuses
  5. Light fixtures
  6. Light poles
  7. Fire alarm system and equipment
- B. Quality of specific equipment is established by manufacturer's catalog number. Alterations caused by any Substitution shall be accomplished at no additional expense to the Owner
- C. Manufacturers not listed may submit for acceptance as an "approved equivalent." Requests for an "equivalent" means "approved equivalent." Four copies of such submittal must be received by the Engineer seven (7) working days prior to bid date.

**1.06 WARRANTY:**

- A. The contractor shall be responsible for the successful operation of electrical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be repaired or replaced at no expense to the Owner.

**1.07 PRODUCT HANDLING AND CLEAN-UP:**

- A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.

**1.08 CUTTING AND REPAIRING:**

- A. The contractor shall be responsible for all cutting, drilling, welding, and repair required for his portion of the work. Coordinate with the Architect. The General Conditions take precedence.

**1.09 OPERATING AND MAINTENANCE DATA:**

- A. Provide the Owner with operating and maintenance instructions (four copies) required for operation of all electrical systems. Bind the written instructions in a notebook. The General Conditions take precedence.

**1.10 PERMITS:**

- A. The contractor shall pay for all fees, taxes, secure permits, licenses, and inspections required for the project.

**1.11 TEMPORARY SERVICES:**

- A. Provide temporary power and lighting as required by the General Contractor, in accordance with OSHA and N.E.C. standards.

**1.12 COORDINATION**

- A. Coordinate outlet device and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before installing fixtures, equipment, etc.
- B. Mechanical work performed by this contractor will conform to the standards of Division 21-23. Mechanical equipment motors and controls shall be furnished, set in place, and wired according with the following schedule unless otherwise noted or specified. MC = Division 21-23 EC = Division 26-28

Item	Furn Set Power Control			
	By_	By_	By_	Writing Writing
Combination starters	MC	EC	EC	MC
Equipment motors	MC	MC	EC	--
Motor starters & O.L. relays	MC	EC	EC	MC
Disconnect switches	EC	EC	EC	MC
Thermal overload heaters (1)	EC	EC	EC	--
Variable Speed Drives	MC	EC	EC	MC
Control relays/transformers	MC	MC	EC	MC
Temperature control panels	MC	MC	EC	MC
Temp. Controls conduit/wiring	MC	MC	--	MC
Actuator and solenoid wiring	MC	MC	--	MC
Pushbuttons & pilot lights	MC	MC	--	MC
Room thermostats	MC	MC	--	MC
Thermostats: line voltage	EC	EC	EC	--

- C. The general guideline for the division between control (by MC) wiring and power wiring (by EC) is that power wiring carries the current which energizes a motor, control wiring does not. Control wiring may be 120V, which would be the responsibility of the MC. Control motors are wired by the MC.
- D. Examine the site and become aware of existing conditions, utilities, and other issues affecting the satisfactory completion of the project.

**1.13 DELIVERY, STORAGE, HANDLING:**

- A. Provide necessary hoisting and hoisting equipment. Protect the materials of this Division before, during, and after installation.

**1.14 AS-BUILT DRAWINGS:**

- A. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish engineer with a reproducible prints showing the "as-built" installation.

**1.15 PROJECT/SITE CONDITIONS:**

- A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.

**2.01 ACCESS PANELS:**

- A. The electrical Contractor shall furnish and General Contractor shall install access panels where required for access to equipment. The electrical Contractor shall include the cost of installation in his bid. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

**3.01 EXCAVATION AND BACKFILLING:**

- A. Verify the location of underground utilities before excavation; the contractor is responsible for any damage to underground utilities. Provide excavating and backfilling for electrical work. Backfill in 12" layers, mechanically tamp to 95% proctor standards. Protect according to OSHA standards. Refer to the General Conditions take precedence.
- B. Provide man-type 12" above exterior underground service conduits (power, telephone, television).

**3.02 START-UP PROCEDURES:**

- A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at no expense to the owner.

**3.03 HANGERS AND SUPPORTS:**

- A. Support conduit and equipment from the structure to prevent sagging, pocketing, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be steel or copper of a type, acceptable to the Engineer. Chain, perforated iron or wire hangers are not permitted.
- B. Conduit on the roof will be supported above the roof on roof pads. The pads shall be approximately 6" wide by 6" high by the length as required. They shall be made of recycled rubber, rated for 500lbs/lb loading each. The pads will have galvanized steel "C" channel attached to the top, which can accommodate pipe clamps to secure the conduit. This configuration of individual piping pads may be expanded to include two pads supporting a trapeze style support where multiple conduits are racked together. The pads are C-series manufactured by Cooper B-line or approved equivalent.

**3.04 SLEEVES AND PLATES**

- A. Provide sleeves and inserts for all conduit. The contractor shall be responsible for the cost of cutting and patching required for piping when sleeves and inserts were not installed or where incorrectly located. Sheetrock joint compound may be used to seal openings in non-rated walls/inclination to be continuous through walls.
- B. Drill holes as required for the installation of hangers required for the mechanical work.
- C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made completely water-tight.
- D. Seal all piping passing through fire-rated construction with approved material to maintain air-tight, fire-rated integrity, with a UL-listed assembly compatible with the wall or floor assembly being penetrated.

**SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL**

**1.01 GENERAL:**

- A. Provide complete systems of conductors and raceways using conduit and/or cable assemblies appropriate to the function and location, and specifically approved in chapter three of the N.E.C.

**2.01 CONDUIT:**

- A. The following raceways are approved for use on this project, where approved by the N.E.C.:

1. EMT: Electrical metallic tubing, galvanized
2. GRC: Rigid steel conduit, galvanized
3. PVC: Polyvinyl chloride conduit, schedule 40
4. IMC: Intermediate metal conduit, galvanized

**2.02 CABLE ASSEMBLIES:**

- A. The following cable assemblies may be used in the power distribution system in concealed locations, where approved by the N.E.C.:
  1. MC: Metal clad cable
  2. NMNMC: Non-metallic sheathed cable
  3. SE/SER: Service entrance cable (From MDC to residences)

**2.03 BOXES:**

- A. Provide galvanized steel outlet and junction boxes, except where otherwise indicated. Boxes shall be a minimum 4" square or octagonal, depth as required. Provide weather-proof type cast boxes with gasket and cast coverplate for exterior outlets or wet locations. Outlet boxes shall be of the proper type and design for the fixture or device to be installed. Through the wall boxes are not permitted. Provide plaster or tile rings for all flush outlets installed where required. Boxes shall be manufactured by Raco, Steel City, National or equivalent.
- B. Interior floor boxes shall be non-metallic or cast steel in concrete or slab on grade installations, and shall be rated for the use. Floor boxes above grade shall be non-metallic or stamped steel, rated for the use. Multi-gang boxes shall be used where specified. Coverplates shall be polished brass with 'flip' lids for receptacles and connectors. Provide carpet flanges where appropriate.

**2.04 CONDUCTORS:**

- A. Provide a complete set of power conductors, rated 600 volts, of the quantity, size and type required for the function.
  1. Conductors shall be copper, except where specifically noted. Conductors shall be solid for wire sizes No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
  2. Aluminum conductors will be accepted only where specifically indicated by the Contract Documents. Aluminum conductors must be terminated according to the manufacturers instructions, including use of proper joint compound, use with aluminum rated lugs, and proper torquing of the lugs.

**2.05 INSULATION:**

- A. Provide wire with the following minimum insulation standards:
  1. Branch circuits, panelboard feeders, service entrance conductors: THWN-2, XHHW(90C). The conductors shall be applied using the 75C rating.
  2. Connections to fixture ballasts, and wiring runs in or through fixture wiring channels: Insulations listed in table 402.5 of the N.E.C., except for wiring made with asbestos.
  3. Cord connections: Cords listed in table 400.4 of the N.E.C., except for wiring made with asbestos.

**2.06 LUGS:**

- A. Lugs for all equipment will be rated for the use. Lugs will be suitable for copper or aluminum conductors, rated for 75C.

**2.07 SWITCHES AND RECEPTACLES:**

- A. Provide specification grade devices throughout. Switches and duplex receptacles may be commercial grade. Devices shall be manufactured by Hubbell, Leviton, General Electric, Bryant, Slater, Pass & Seymour, Inc., Sierra, or Arrow-Hart.
- B. Except where noted, plates shall be plastic, color to match the devices with matching screws for receptacles, switches, telephones, and TV outlets. Provide blank coverplates for unused outlets. Coverplates for multi-gang boxes shall be sized for the box it covers.
- C. Devices and their coverplates colors shall be coordinated with Architect and Owner. In mechanical rooms, etc, the coverplates may be galvanized steel

**2.08 DIMMERS:**

- A. Incandescent dimmers shall be the linear slide-type with aluminum fins. Dimmers shall be Lutron Nova series or equivalent.
- B. Fluorescent dimmers shall be the linear slide-type with aluminum fins. The dimmers shall be closely coordinated with the ballast type of the specific fixture being controlled and must be field coordinated before ordering. Dimmers shall be Lutron Nova series or equivalent.
- C. LED dimmers must be selected by, or specifically approved by, the specific fixture manufacturer or supplier. Slide type dimmers are preferred where available.
- D. When switches and dimmers are located side by side, switches shall have identical appearance as dimmers. Dimmers shall in no case have heat fins removed or modified.
- E. Dimmers shall be manufactured by Lutron, Hunt, Prescotte, or equivalent

**3.01 WIRING:**

- A. The drawings are schematic in nature; alternative wiring paths, different conduit fill, etc, installed in conformance with the N.E.C. are allowed. Conductors must be derated per code.
- B. Branch circuits shall use minimum No. 12 AWG wiring for branch circuits, protected by 20 ampere circuit breakers. Control wiring may be No. 14 minimum. If distance from panel to first outlet is 75 feet or greater (for 120-volt circuits) or 150 feet or greater (for 277-volt circuits), provide No. 10 AWG.
- C. Use PVC in earth or in slabs in contact with earth. Outside the building, install a minimum of 30" below finished grade.
- D. Where mechanical damage occur, use galvanized rigid steel or intermediate metal conduit.
- E. Electric metallic tubing may be used in all applications, except where prohibited by code or otherwise noted.
- F. Do not install exposed conduit in areas open to the public. Exposed conduit may be installed at surface-mounted equipment and other locations acceptable to the Architect. Run exposed conduit parallel to, and at right angles with, the building lines.
- G. Direct burial wiring shall not be used.
- H. Use flexible metallic conduit for connections to motors, fixtures, or other equipment where vibration is encountered. Provide sealante flexible metallic conduit for connections in wet areas such as kitchens, equipment rooms, on roofs, etc.
- I. Provide a ground wire in non-metallic conduit and flexible conduit. Ground wires shall be increased in size where circuit wiring is increased for voltage drop.
- J. Circuits fed through AFCI breakers shall have separate neutrals with no cross or ground connections; wiring shall be installed per the breaker manufacturers instructions.
- K. Multi-wire branch circuits shall utilize handle ties on breakers, or other grouped disconnecting means per NEC 210.4(B).

**3.02 OUTLET BOXES, DEVICES AND FITTINGS:**

- A. Install receptacle and telephone outlets 18" to center-line above floor in general locations; install at switch height where shown in combination; install 46" to center-line in mechanical equipment rooms.
- B. Install receptacles vertically, ground pole down.
- C. Install switch outlets 46" to center-line above floor on latch side of door. Verify door swing prior to installation. Use gang boxes for multiple-device installation as required.
- D. Install outlets shown on the drawings "back-to-back" with a minimum of 6" lateral separation between them.

**SECTION 26 20 00 - SERVICE AND DISTRIBUTION**

**1.01 SERVICE ENTRANCE:**

- A. Power will be available from the secondary side of transformer(s) provided by the utility company. This service shall be 120/208 volt, 3 phase, 4 wire, 60 hertz A.C. for normal power and lighting requirements. General arrangement of the service equipment is shown on the drawings. Load balance the entire system to within 15% per phase.

**1.02 GROUNDING:**

- A. Provide a complete grounding system in accordance with Section 250 of the N.E.C.
- B. Supplemental electrode to be installed unless resistance of 25 ohms to earth can be documented.

**2.01 PANELBOARDS:**

- A. Provide circuit breaker-type panelboards as detailed on the drawings. Provide separate ground bus. Provide fronts with door and latch with locks keyed alike. Install panels 66" above finished floor to top of trim. Where panels are mounted side by side, align tops of panels. Mount a typed directory, identifying each circuit, in a directory frame. Provide typed source label identifying source of power for each panel. Install trim and doors with primer coats in finished areas. Provide one spare 3/4" conduit for each 3 unused poles in flush-mounted panelboards, extend from an accessible point above a hung ceiling, cap and identify.
- B. Breakers shall be full width, thermal magnetic, bolt-on type. Provide multi-pole breakers with common trip and single operating handle; handle ties are acceptable for multi-wire branch circuits.
  1. Breakers serving residential projects shall be AFCI breakers per NEC 210.12.
  2. Breakers serving restaurant kitchens and bars, or where required by code, shall be GFCI breakers. GFCI receptacles may be used only where the receptacles are not located behind equipment.
  3. HACR breakers shall be used for HVAC equipment in accordance with the equipment manufacturer.
  4. HID breakers shall be used where HID or Fluorescent fixtures are normally panel switched.
- C. Single protective device shall be integral and other type 1 or 2,4 with minimum rating of 80kA.
- D. Lugs on mains and branch breakers shall be rated for 75C or 60C, copper or aluminum wiring.
- E. Panelboards(240VAC) shall be Square D type NQOD or equivalent by I.T.E., G.E., or Cutler Hammer.

**2.02 LOADCENTERS:**

- A. Provide circuit breaker-type loadcenters as detailed on the drawings. Provide separate ground bus. Provide fronts with door and latch with locks keyed alike. Install panels 66" above finished floor to top of trim. Where panels are mounted side by side, align tops of panels. Mount a typed directory, identifying each circuit, in a directory frame. Provide typed source label identifying source of power for each panel. Install trim and doors with primer coats in finished areas. Provide one spare 3/4" conduit for each 3 unused poles in flush-mounted loadcenters, extend from an accessible point above a hung ceiling, cap and identify.
- B. Breakers shall be full width, thermal magnetic, plug-in type. Provide multi-pole breakers with common trip and single operating handle; handle ties are acceptable for multi-wire branch circuits.
  1. Breakers serving residential projects shall be AFCI breakers per NEC 210.12.
  2. Breakers serving restaurant kitchens and bars, or where required by code, shall be GFCI breakers. GFCI receptacles may be used only where the receptacles are not located behind equipment.
  3. HACR breakers shall be used for HVAC equipment in accordance with the equipment manufacturer.
  4. HID breakers shall be used where HID or Fluorescent fixtures are normally panel switched.
- C. Single protective device shall be integral and other type 1 or 2,4 with minimum rating of 80kA.
- D. Lugs on mains and branch breakers shall be rated for 75C or 60C, copper or aluminum wiring.
- E. Load centers shall be Square D type QO or equivalent by I.T.E., G.E., or Cutler Hammer.

**2.03 FUSIBLE DISTRIBUTION SWITCHGEAR:**

- A. Provide fire-standing, floor-mounted, fusible type switchboard as shown on the plans.
- B. Switchboard shall be 90" high, depth as indicated, constructed so gage sections align, with internal components removable from the front.
- C. Buses shall be copper or tin-plated aluminum, braced for short-circuit currents of 100,000 RMS symmetrical amperes. Horizontal bars shall be tape-wrapped and insulated. Maximum temperature rise shall be 55C over 25C ambient. Provide full length and sized horizontal buses, including neutral and ground. Vertical sections shall be fully bussed. All lugs shall be rated for 75C or 60C copper or aluminum wiring.
- D. Manufacturers shall be General Electric "AV line" with OMR construction or equivalent by Square D, I.T.E., or Westinghouse.

**2.04 FUSIBLE DISTRIBUTION PANELBOARD:**

- A. Provide wall hung fusible type panelboard as shown on the plans.
- B. Rear sections shall constructed with internal components removable from the front.
- C. Buses shall be copper or tin-plated aluminum, braced for short-circuit currents of 100,000 RMS symmetrical amperes. Horizontal bars shall be tape-wrapped and insulated. Maximum temperature rise shall be 55C over 25C ambient. Provide full length and sized buses, including neutral and ground. Vertical sections shall be fully bussed. All lugs shall be rated for 75C or 60C copper or aluminum wiring.
- D. Manufacturers shall be Square D type QMD construction or equivalent by General Electric, I.T.E., or Westinghouse.

**2.05 CURRENT TRANSFORMER CABINETS:**

- A. Provide current transformer cabinets, including interior lugs and bussing, as required to accommodate the requirements of the utility

- company. The cabinets shall be U.L. listed, weatherproof as required. All lugs shall be rated for 75C or 60C wiring.

**2.06 METER STACK:**

- A. Provide wall mounted modular meter stacks where shown on the plans. The unit shall be NEMA 3(NEMA 1), made of galvanized steel. The incoming section shall use a fused switch.
- B. The buses shall be copper or tin-plated aluminum, braced for short-circuit currents of 65,000AIC symmetrical amperes. Vertical sections shall be fully housed top to bottom. Provide full length and sized horizontal buses, including neutral and ground. All lugs shall be rated for 75C or 60C copper or aluminum wiring.
- C. Meter stack shall accommodate both single phase and three phase, 100Amp and 200Amp meters and breakers. Additional sections shall be capable of simple connection.
- D. The meter stack shall be manufactured by American Midwest Power (AMP), Square D, G.E., Westinghouse ITE or equivalent.

**2.07 SAFETY SWITCHES:**

- A. Provide normal duty, enclosed, fusible and non-fusible safety switches as indicated on the plans. All lugs shall be rated for 75C or 60C copper or aluminum wiring. Provide enclosures suitable for the surrounding area and conditions. Label switches for feeder or motor supplied. The switches shall be manufactured by Square D, I.T.E., G.E., Cutler Hammer, or equivalent.

**2.08 FUSES:**

- A. Provide power fuses of the time-delay type unless otherwise indicated. Fuses shall be manufactured by Busman, Gould Shavmut, or equivalent. Provide one (1) complete set of fuses for fuse-holding devices, sized according to the motor and/or conductor to be protected. Provide a hinged cover cabinet for storage of spare fuses: three spare fuses of each fuse size.

**3.01 WIRING FOR EQUIPMENT:**

- A. Provide branch circuits, feeders, junction boxes, disconnect switches, etc as required for a complete system; make power connections to motors and controls for heating, ventilating, air conditioning, plumbing, other furnished and fire protection equipment as required.
- B. Kitchen equipment. Refer to the Kitchen Equipment Contractor's drawings for final sizing, locations, and rough-in heights. The Electrical Contractor shall provide final circuits and connections to kitchen electrical equipment. Sealante conduit and fittings shall be used on runs inside refrigerated bases and at dish tables.
- C. Provide connections to hood fire suppression system(s). The electrical contractor is responsible for wiring the interlock controls for hood related air handling equipment, including low voltage interlocks, and interlocks within building HVAC equipment where required.

**SECTION 26 50 00 - LIGHTING**

**1.01 RECESSED LED:**

- A. Recessed LED luminaires shall be pre-wired. Openings shall be neatly made so they are completely concealed after the trim is installed. Luminaires installed in a grid ceiling shall be supported by the framing system, not by ceiling panels. Install metal plaster frames in plaster ceilings. Fixtures shall have thermal protection where required by the N.E.C. and local codes.

**1.02 EXTERIOR LIGHTING FIXTURES:**

- A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide underground wiring to exterior lighting as shown on the drawings.

**2.01 INTERIOR LIGHTING FIXTURES:**

- A. Securely support and anchor fixtures and outlet boxes. Where lighting fixtures are installed in a lay-in grid ceiling system, secure fixtures to tees by installing earthquake clips at each corner of the fixture. Provide supports required, including structural members if needed. Provide separate junction boxes and wire to recessed fixtures in flexible conduit with Type AF wire, unless acceptable pre-wired fixtures are used. Conceal openings cut in ceilings for recessed fixtures with fixture trim installed. Coordinate installation of recessed fixtures with ceiling installer.

**2.02 EXTERIOR LIGHTING FIXTURES:**

- A. Exterior lighting fixtures, raceways, equipment, etc. shall be weather-proof and suitable for temperatures down to -20F.
- B. Ballast type, lamp wattage, and rated voltage shall be as indicated on the plans. Each ballast shall be of the separate- component type, capable of reliable lamp starting down to -20F, and shall have a minimum power factor of .90.

**2.03 LAMPS:**

- A. Incandescent and LED replacement lamps shall be rated at 130V. H.I.D. and fluorescent lamps shall be as specified on plans with ballasts as specified in the following specifications. Lamp codes listed are ANSI. All lamps shall be Sylvaia, General Electric, or approved equivalent.
- B. In porcelain keyless fixtures, provide medium base, self ballasted, A-line shape, fluorescent lamps, GE FLE15/2/A21 or equivalent.

**2.04 DRIVERS:**

- A. LED Drivers shall be electronic-type, labeled as compliant with radio frequency interference (RFI) requirements of FCC Title 47 Part 15, and comply with NEMA SSL 1 "Electronic Drivers for LED Devices, Arrays, or Systems." LED drivers shall have a sound rating of "A", have a minimum efficiency of 85%, and be rated for a THD of less than 20 percent at all input voltages.
- B. Dimmable LED drivers shall be 0-10V type. Dimmable LED drivers shall be capable of dimming without LED strobing or flicker across their full dimming range.
- C. Ballasts and drivers shall be rated for the ambient temperatures in which they are located. Outdoor fixtures shall be equipped with ballasts or drivers rated for reliable starting to -20 degrees F. Indoor fixtures located in areas with direct sunlight or above normal ambient temperatures shall have ballasts or drivers rated at 65 degrees C minimum.

**2.05 POLES AND STANDARDS:**

- A. Each pole shall contain a hand-hole at the base, with an accessible ground lug capable of accepting up to 4/1 AWG stranded wire. Pole shall be furnished complete with base, anchor bolts, template, and other hardware necessary for the pole/luminaire and/or pole-base connections.
- B. Concrete pole bases shall be provided by the General Contractor. The Electrical Contractor shall be responsible for the coordination of conduit and anchor bolts. An anchor bolt template shall be furnished to the Architect within 30 days of the signing of the Contract. Provide conduit in and out to a point 5' beyond the base.
- C. The entire assembly (base, pole, brackets, luminaires) shall be designed to withstand 100 MPH winds.

**2.06 INDOOR LIGHTING CONTROLS:**

- A. Provide combination daylight, time-clock and occupancy, lighting control system as shown on drawings. Include power packs, sensors, controllers, transformers, relays, wiring, etc. as required.
- B. Sequence of operations:
  1. Daylight control areas (All perimeter offices within 15' of exterior windows):
    - a. Lights will be turned on with occupancy detection.
    - b. Daylight sensors will dim fixtures