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04/29/2024

April 29, 2024

IDEA PS - Plumbing Upgrades at Lower RGV Campuses CSP#27-LRPU-0424

## **ADDENDUM NO. 1**

### **A. PURPOSE AND INTENT**

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

### **B. SCOPE**

#### **I. Drawings**

1. Sheet P3.01 – See attached.
  - a) Revised Plumbing Schedules.
2. Sheet P4.03 – see attached.
  - a) Revised plumbing schedules.
3. Sheet P5.01 – See attached.
  - a) Revised Plumbing Keyed notes.
4. Sheet P5.02 – See attached.
  - a) Revised Plumbing Keyed notes.
  - b) Revised Condensate Drain Trap Pipe Detail.
5. Sheet P5.03 – See attached.
  - a) Revised Plumbing Keyed notes.
  - b) Revised Condensate Drain Trap Pipe Detail.
6. Sheet P5.04 – See attached.
  - a) Revised Plumbing Keyed notes.
  - b) Revised Condensate Drain Trap Pipe Detail.
7. Sheet P5.07 – See attached.
  - a) Revised Plumbing Keyed notes.
8. Sheet P5.11 – See attached.
  - a) Revised Plumbing Schedules.
  - b) Revised Plumbing Details.

9. Sheet P6.01 – See attached.
  - a) Revised Plumbing Keyed notes.
10. Sheet P6.02 – See attached.
  - a) Revised Plumbing Keyed notes.
11. Sheet P6.04 – See attached.
  - a) Revised Plumbing Keyed notes.
12. Sheet P6.05– See attached.
  - a) Revised Plumbing Schedules.
  - b) Revised Plumbing Details.
13. Sheet P7.03 – See attached.
  - a) Revised Plumbing Keyed notes.
14. Sheet P7.04 – See attached.
  - a) Revised Plumbing Keyed notes.
15. Sheet P7.05 – See attached.
  - a) Revised Plumbing Schedules.
  - b) Revised Plumbing Details.



04/29/2024

ADD

### PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
WH-1	ZURN P1300-#1-3/4 HYD-RK-Z1300-10	REPLACEMENT PART P1300 #1-3/4 WALL HYDRANT BRONZE HEAD AND REPAIR KIT.	-	-	3/4"	-	-	
WH-2	ZURN # 013500019 HYD-RK-Z1350	WALL HYDRANT ASSEMBLY WITHOUT BOX AND REPAIR KIT	-	-	3/4"	-	-	



01

WH-1

SCALE : NOT TO SCALE



02

WH-2

SCALE : NOT TO SCALE

NO. REVISION: BY:

04/29/2024 ETHOS

COPY NO:

CSP # 27-LRPU-0424

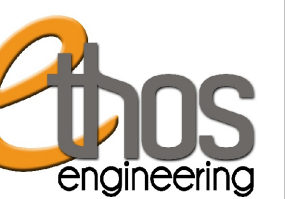


04.14.2023

TEXAS

# IDEA PUBLIC SCHOOLS LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.  
HARLINGEN, TX  
PHONE: 361-205-2435  
TEXAS REGISTERED  
ENGINEERING FIRM  
E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:

SHEET:

P3.01

### PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

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			WASTE	VENT	CW	HW	NOTES	
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WH-2	ZURN # 013500019 HYD-RK-Z1350	WALL HYDRANT ASSEMBLY WITHOUT BOX AND REPAIR KIT	-	-	3/4"	-	-	



01

WH-1

SCALE : NOT TO SCALE



02

WH-2

SCALE : NOT TO SCALE

NO. REVISION: BY:

ADD 04/29/2024 ETHOS

COPY NO:

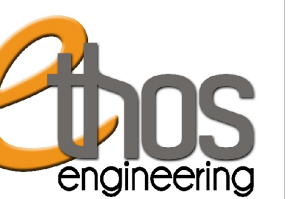
CSP # 27-LRPU-0424



TEXAS

IDEA PUBLIC SCHOOLS  
LOWER RGV PLUMBING UPGRADES

RIO GRANDRE VALLEY



1128 SOUTH COMMERCE ST.  
HARLINGEN, TX  
PHONE: 361-205-2435  
TEXAS REGISTERED  
ENGINEERING FIRM  
E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:

SHEET:

P4.03



**GENERAL NOTES:**

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

**DEMOLITION ELECTRICAL KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

**ELECTRICAL NEW KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

**DEMOLITION GENERAL NOTES:**

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

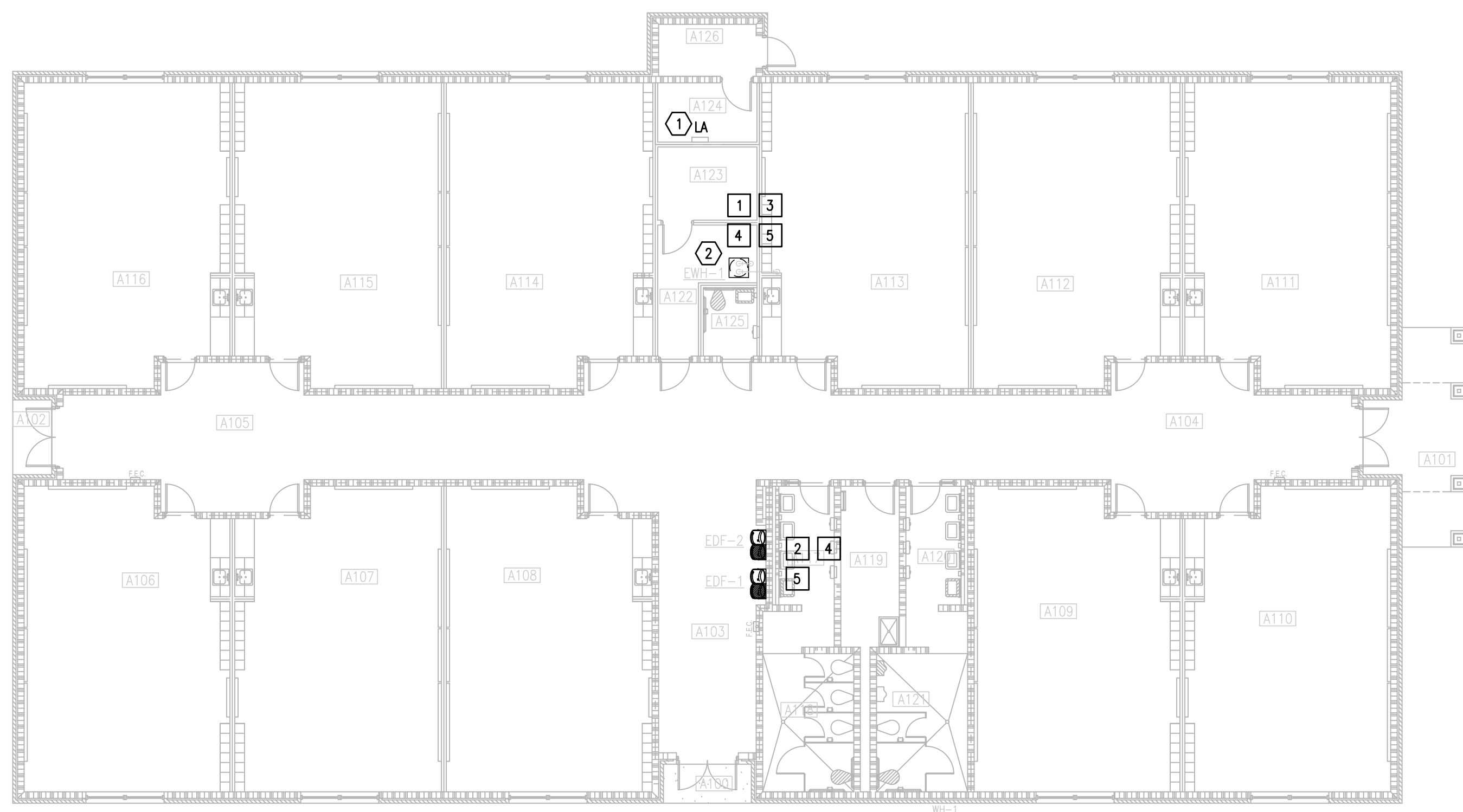
**DEMOLITION PLUMBING KEYED NOTES:**

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING DRINKING FOUNTAINS AT THIS APPROXIMATE LOCATION.
- 3 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

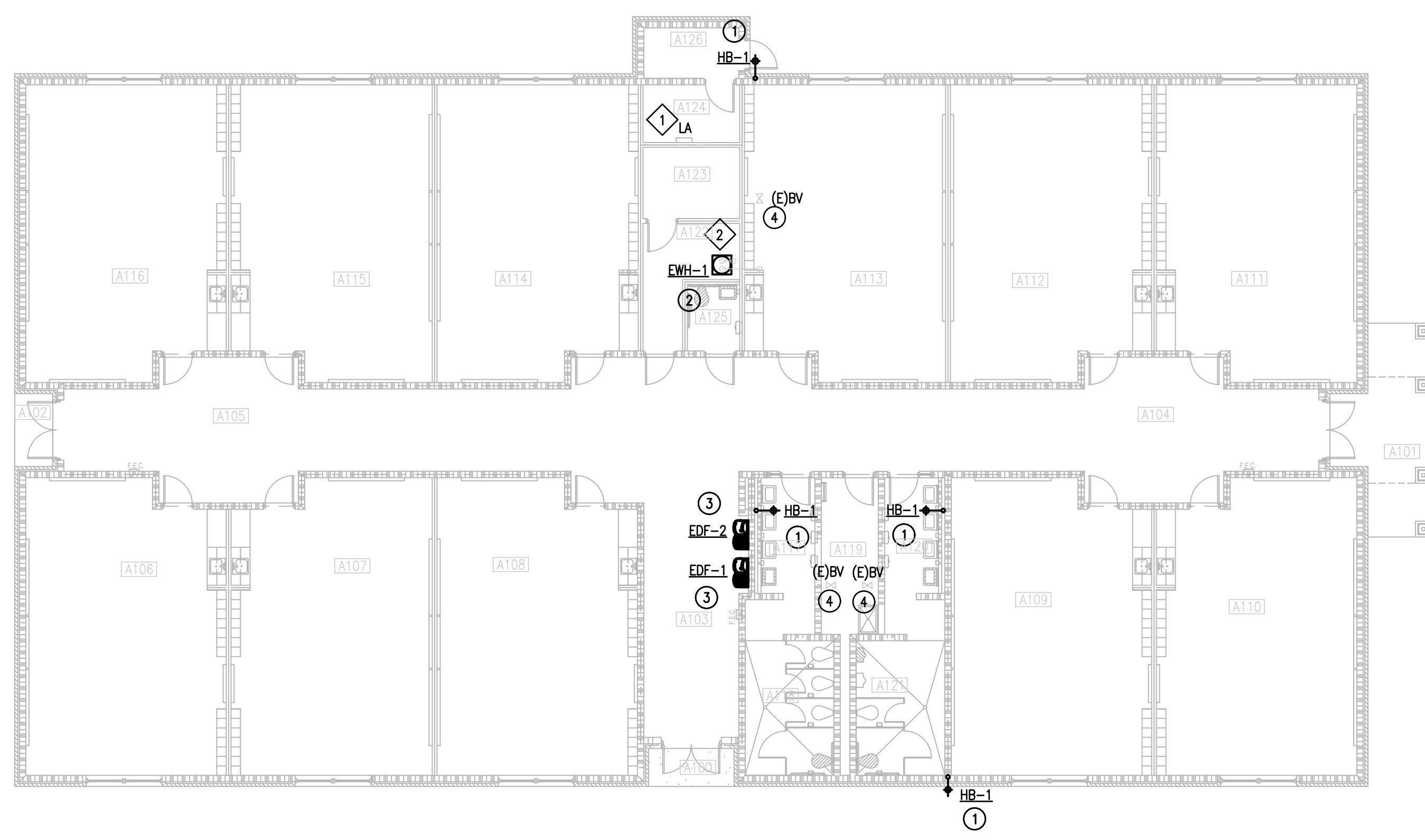
**PLUMBING KEYED NOTES:**

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-1 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW DRINKING FOUNTAINS EDF-1&2 WITH NEW ONES INDICATED ON THE SCHEDULES OR AN APPROVED EQUAL. REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY AND REPAIR WALL TO MATCH EXISTING CONDITIONS IF NECESSARY.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

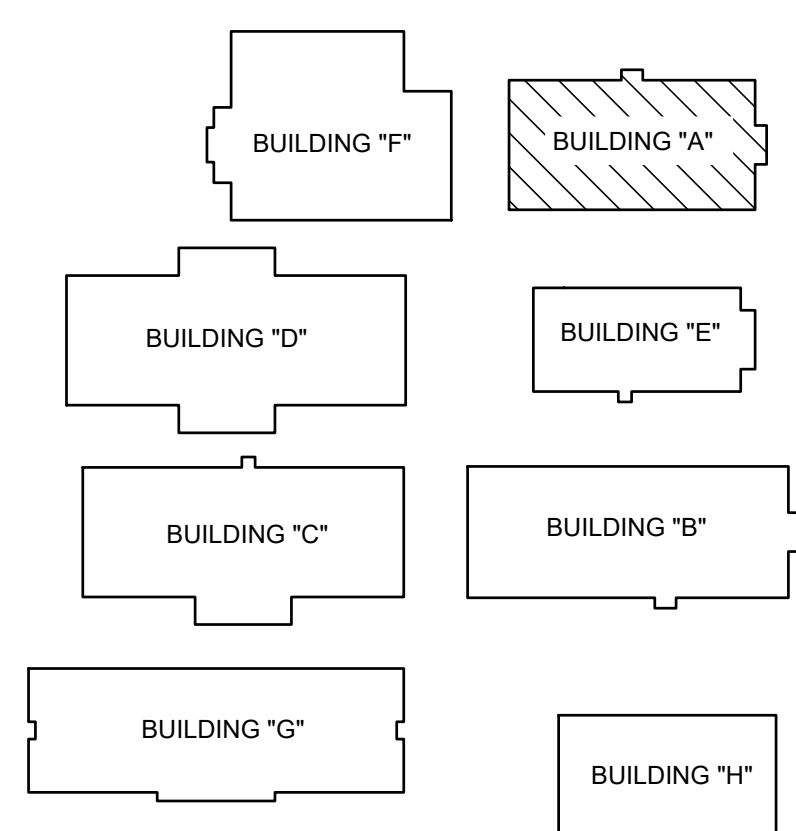
PLUMBING LEGEND	
---	TO BE DEMOLISHED
⊕	WALL HYDRANT TO BE REPLACED



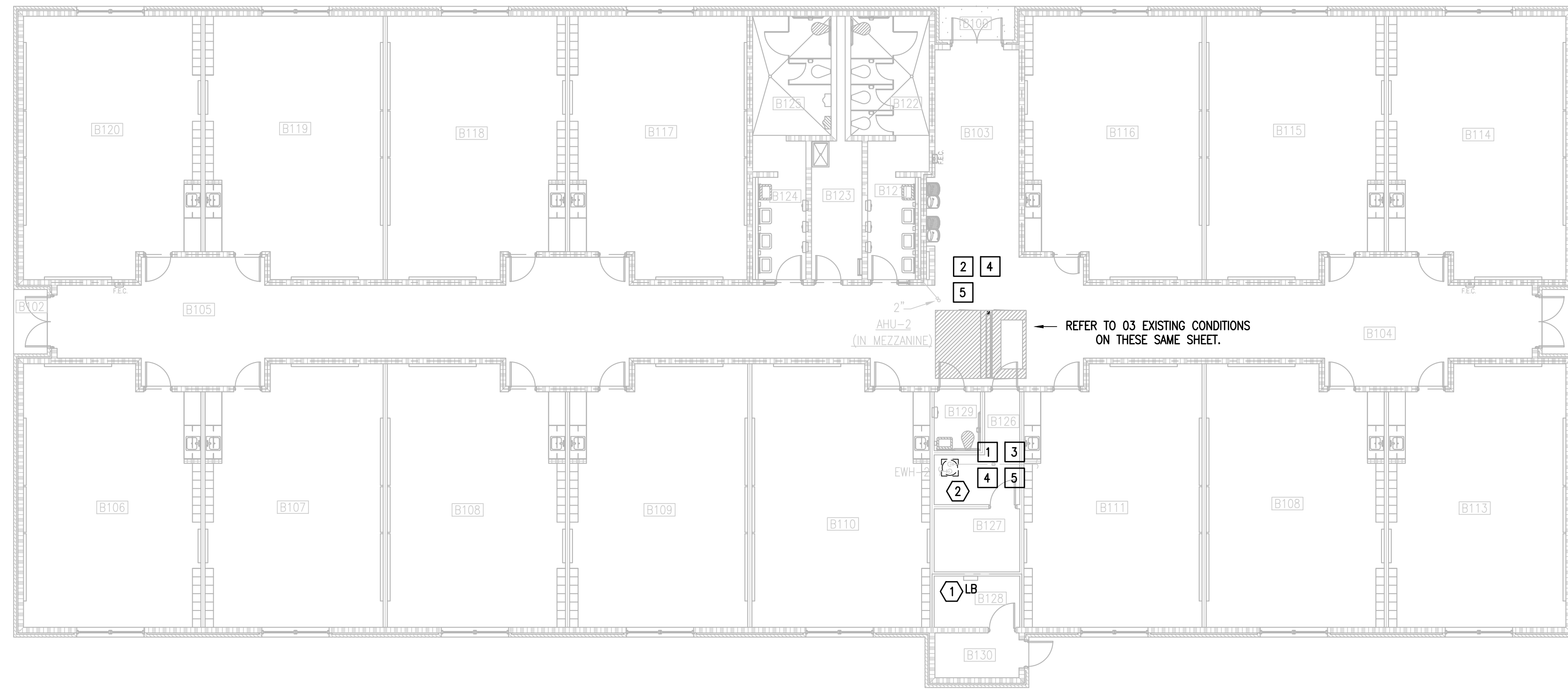
IDEA FRONTIER  
 01 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING A)  
 SCALE : 3/32" = 1'-0"  
 NORTH



IDEA FRONTIER  
 02 NEW ELECTRICAL AND PLUMBING PLAN (BUILDING A)  
 SCALE : 3/32" = 1'-0"  
 NORTH

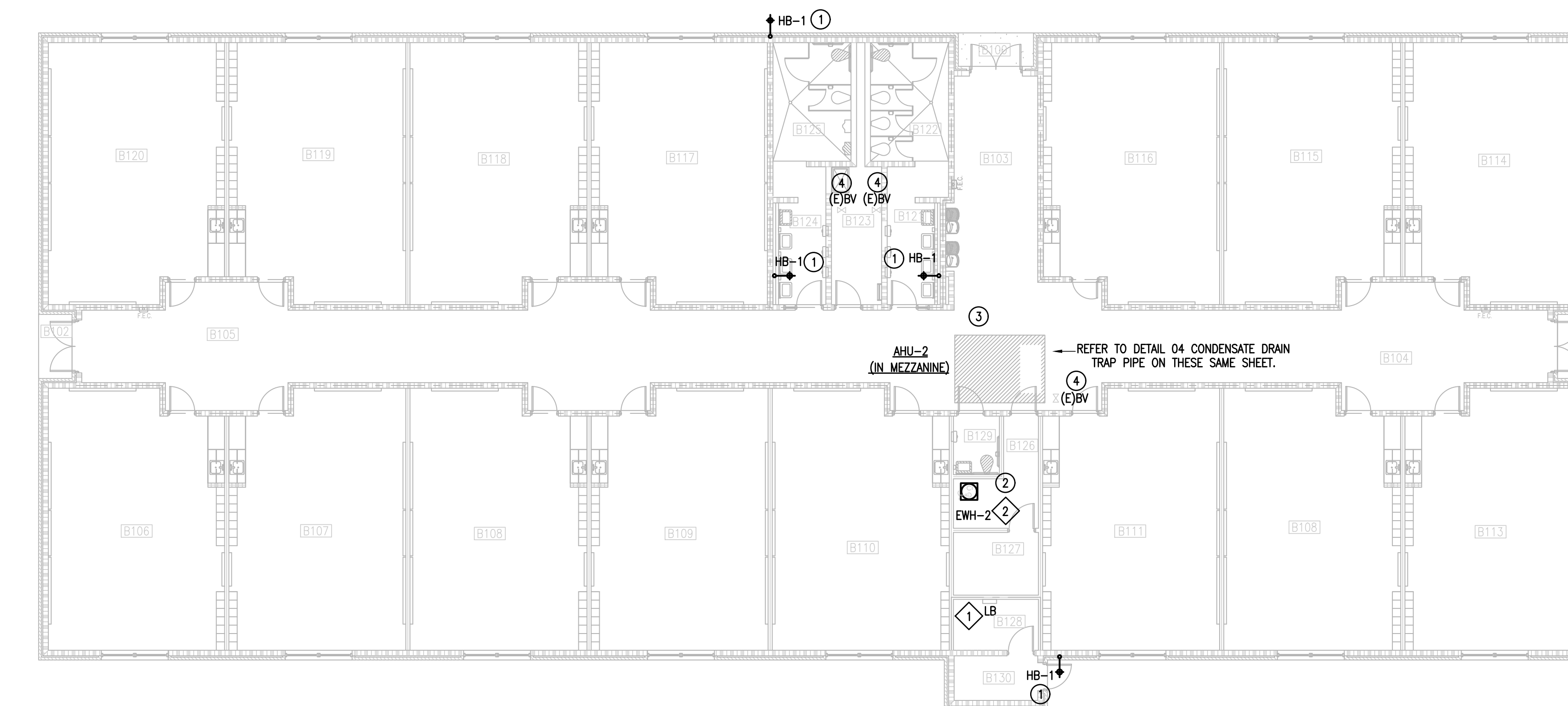


FRONTIER IDEA ACADEMY  
 KEYPLAN



01 IDEA FRONTIER  
DEMOLITION ELECTRICAL AND PLUMBING PLAN  
SCALE : 3/32" = 1'-0"

(BUILDING B)



02 IDEA FRONTIER  
NEW ELECTRICAL AND PLUMBING PLAN  
SCALE : 3/32" = 1'-0"

(BUILDING B)

**DEMOLITION ELECTRICAL KEYED NOTES:**

- ① APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- ② DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

**ELECTRICAL NEW KEYED NOTES:**

- ① APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- ② CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

PLUMBING LEGEND	
	TO BE DEMOLISHED
	WALL HYDRANT TO BE REPLACED

**DEMOLITION GENERAL NOTES:**

- 1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
- 2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- 4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
- 5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- 6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
- 7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

**GENERAL NOTES:**

- 1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
- 2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
- 3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

**DEMOLITION PLUMBING KEYED NOTES:**

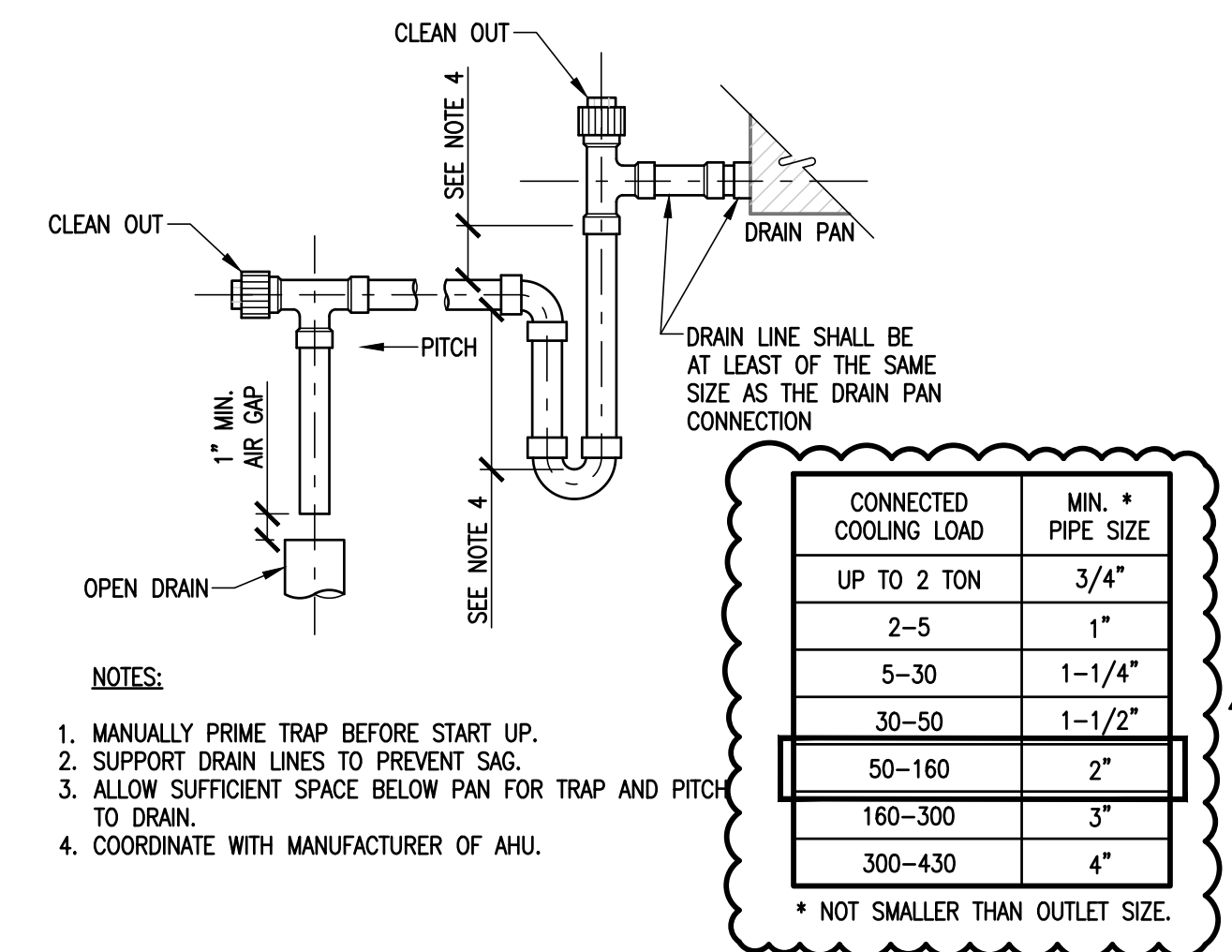
- ① DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- ② DEMOLISH EXISTING CONDENSATE PIPING SERVING HVAC EQUIPMENT AT THIS APPROXIMATE LOCATION.
- ③ ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- ④ DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- ⑤ PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

**PLUMBING KEYED NOTES:**

- ① REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- ② PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-2 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P5.11.
- ③ PROVIDE NEW 2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- ④ APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.



03 IDEA FRONTIER  
EXISTING CONDITIONS (BUILDING B - MEZZANINE)  
SCALE : NOT TO SCALE

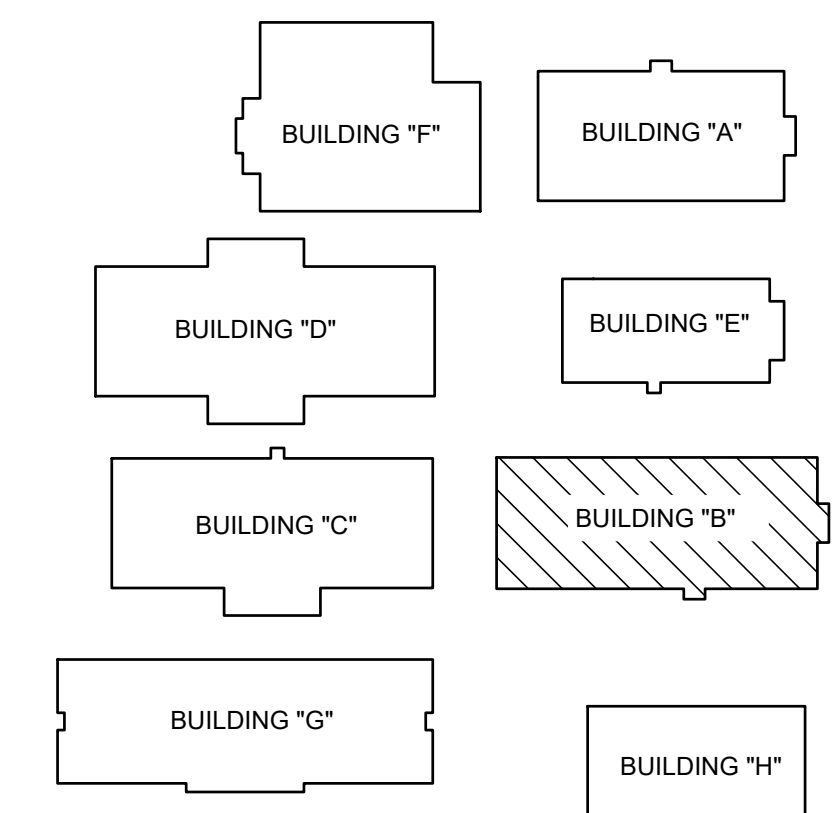


- NOTES:
- 1. MANUALLY PRIME TRAP BEFORE START UP.
  - 2. SUPPORT DRAIN LINES TO PREVENT SAG.
  - 3. ALLOW SUFFICIENT SPACE BELOW PAN FOR TRAP AND PITCH TO DRAIN.
  - 4. COORDINATE WITH MANUFACTURER OF AHU.

CONNECTED COOLING LOAD	MIN. PIPE SIZE
UP TO 2 TON	3/4"
2-5	1"
5-30	1-1/4"
30-50	1-1/2"
50-160	2"
160-300	3"
300-430	4"

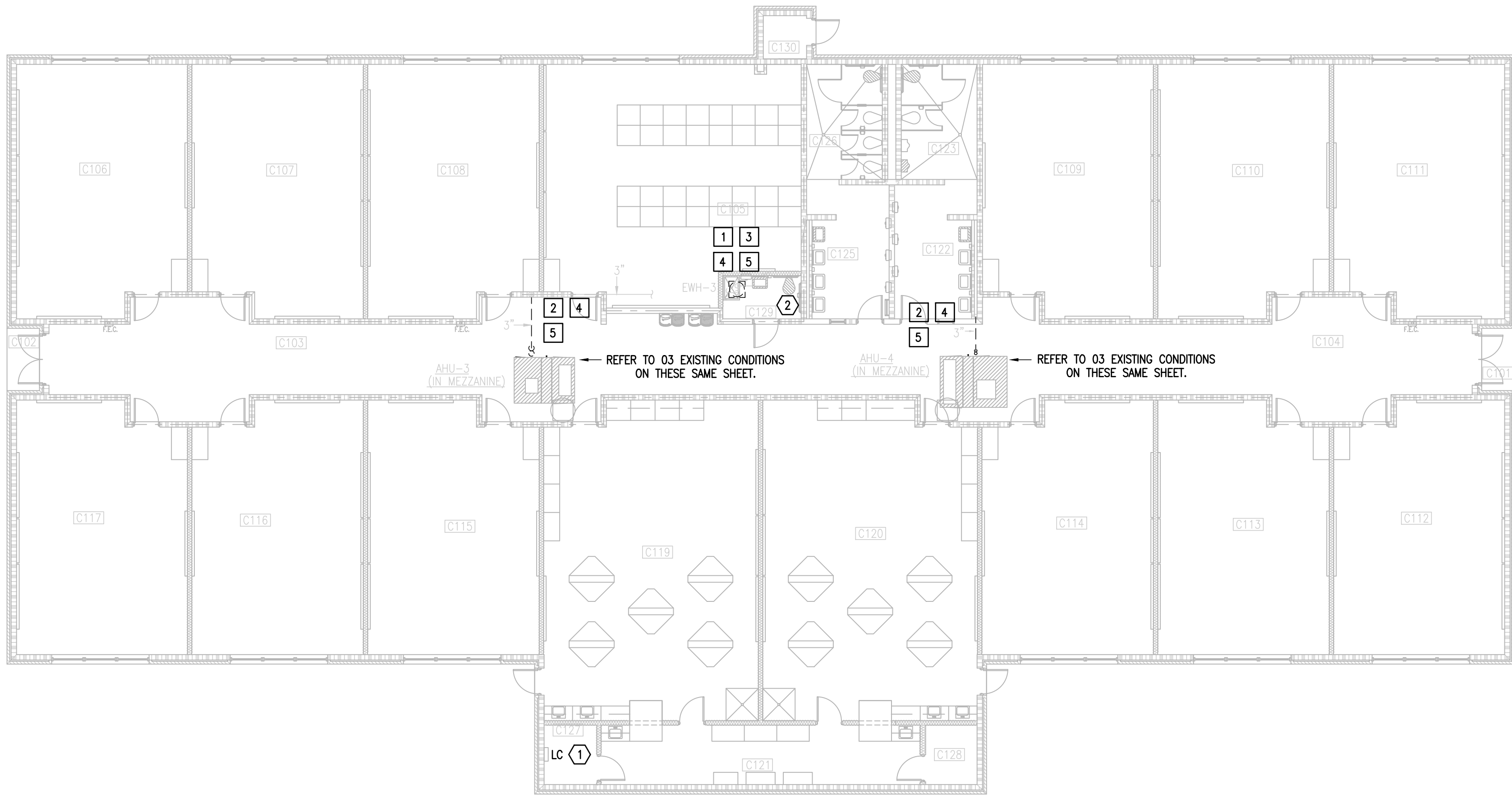
\* NOT SMALLER THAN OUTLET SIZE.

04 CONDENSATE DRAIN  
TRAP PIPE  
SCALE : NOT TO SCALE

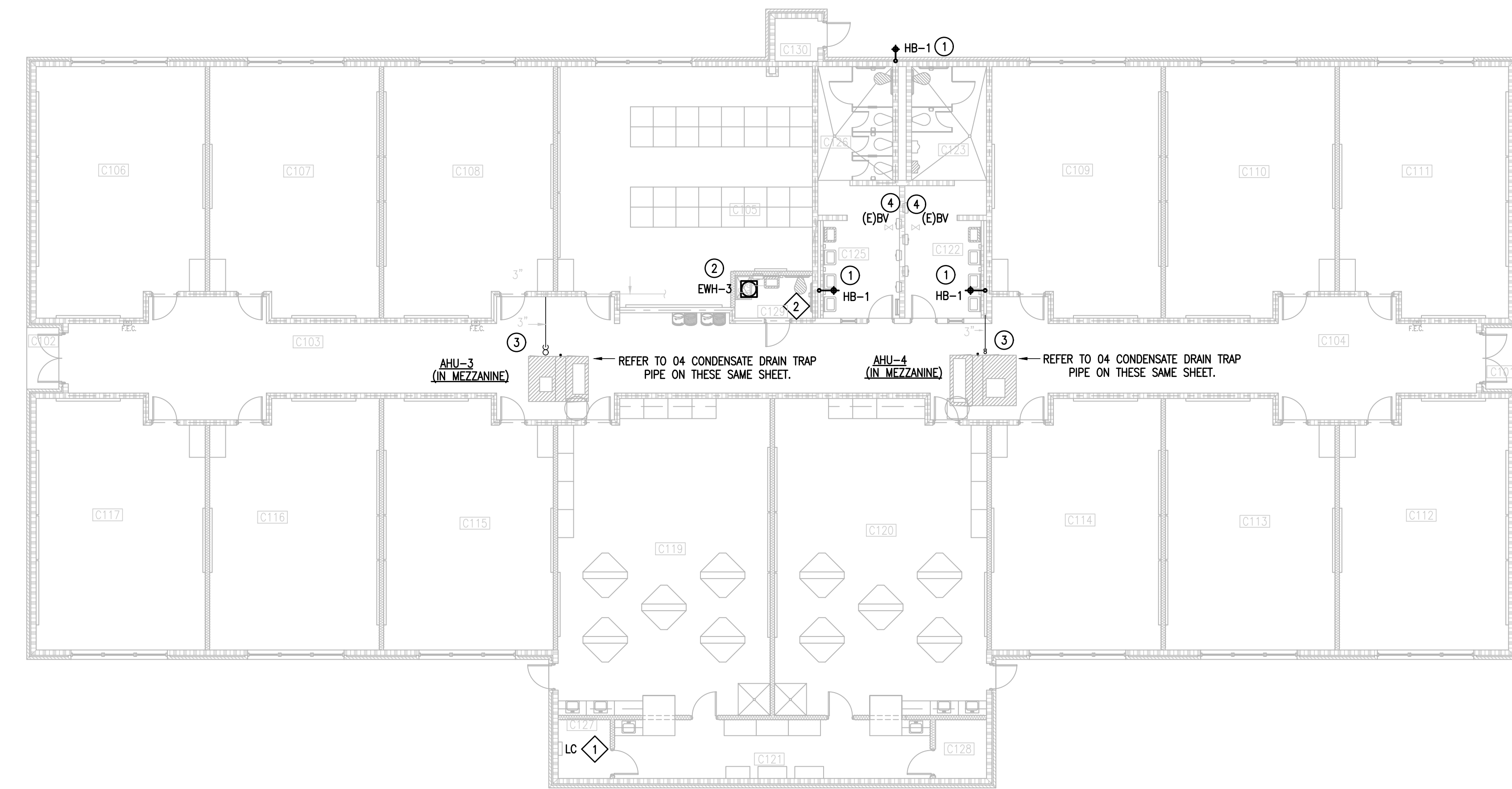


FRONTIER IDEA ACADEMY  
KEYPLAN





IDEA FRONTIER  
 01 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING C)  
 SCALE: 3/32" = 1'-0"



IDEA FRONTIER  
 02 NEW ELECTRICAL AND PLUMBING PLAN (BUILDING C)  
 SCALE: 3/32" = 1'-0"

GENERAL NOTES:

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- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
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DEMOLITION GENERAL NOTES:

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DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING CONDENSATE PIPING THAT WILL NO LONGER BE USED AT THIS APPROXIMATE LOCATION NEAR THE 2" HUB DRAIN ON THE MEZZANINE.
- 3 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

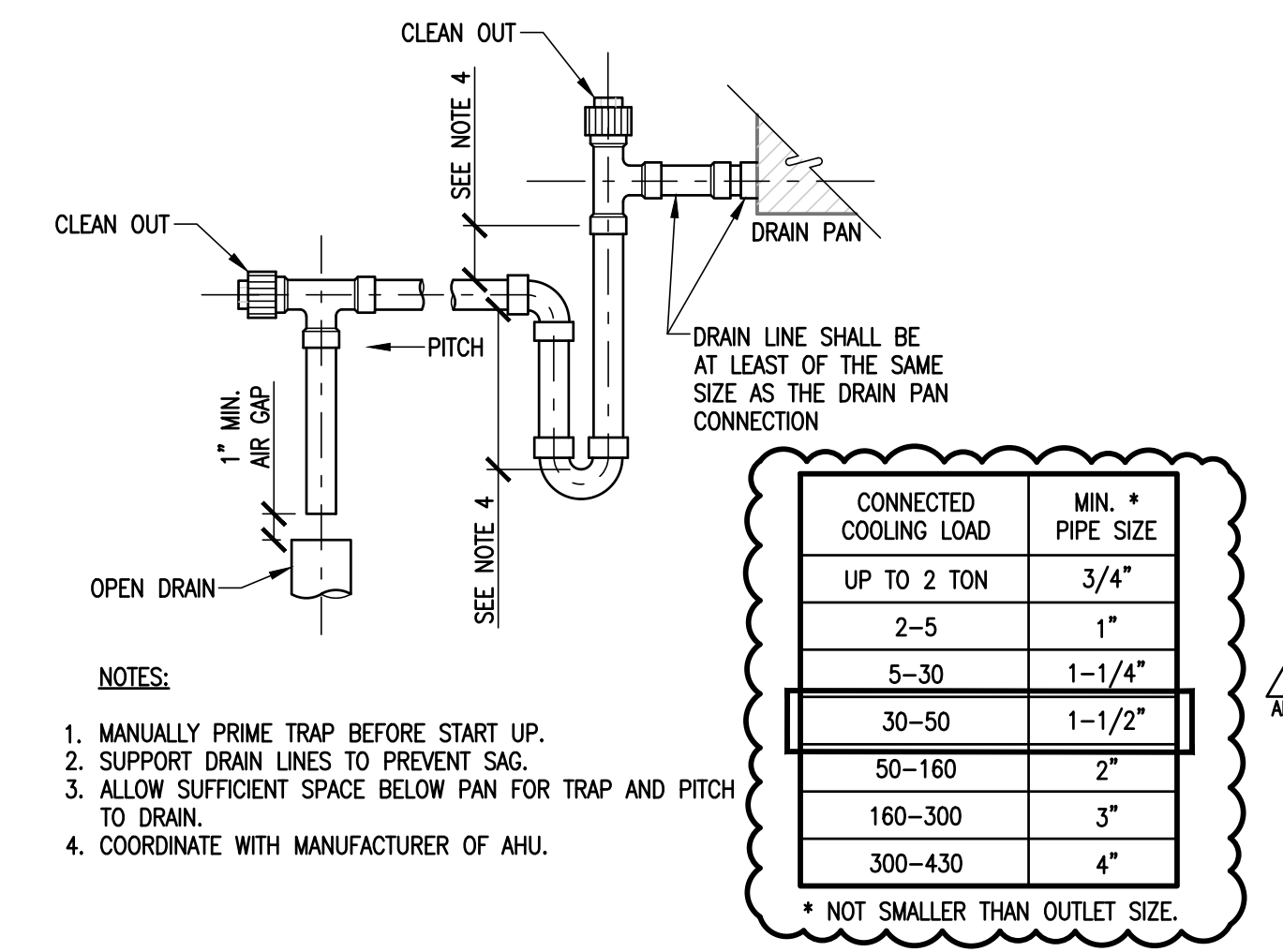
PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-3 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW 1-1/2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

EXISTING CONDENSATE PIPING TO BE REMOVED AND REPLACED

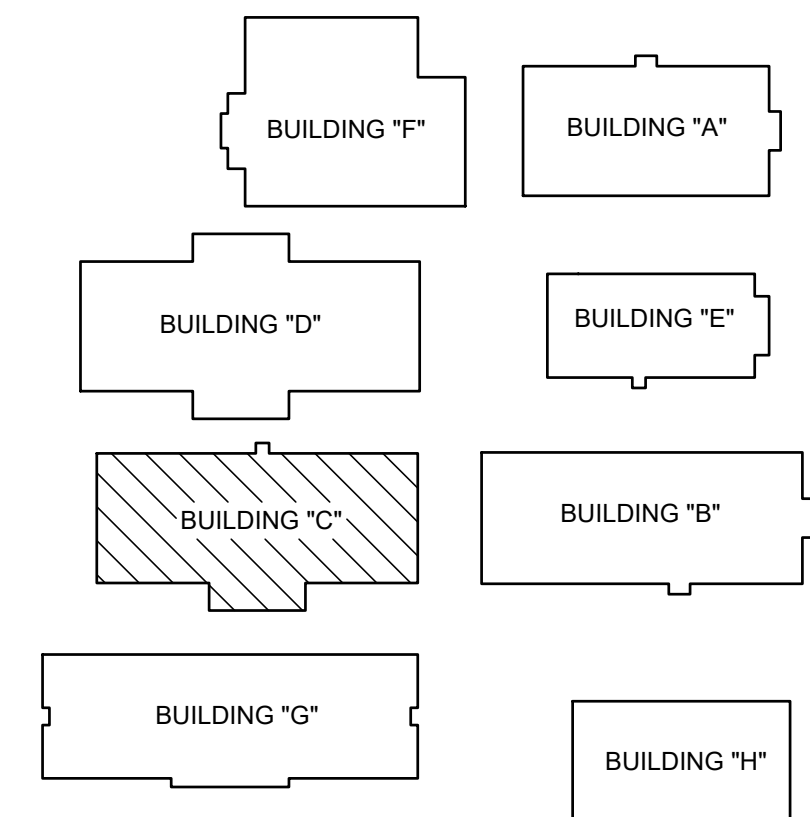


IDEA FRONTIER  
 03 EXISTING CONDITIONS AHU-3&4 (BUILDING C - MEZZANINE)  
 SCALE: NOT TO SCALE

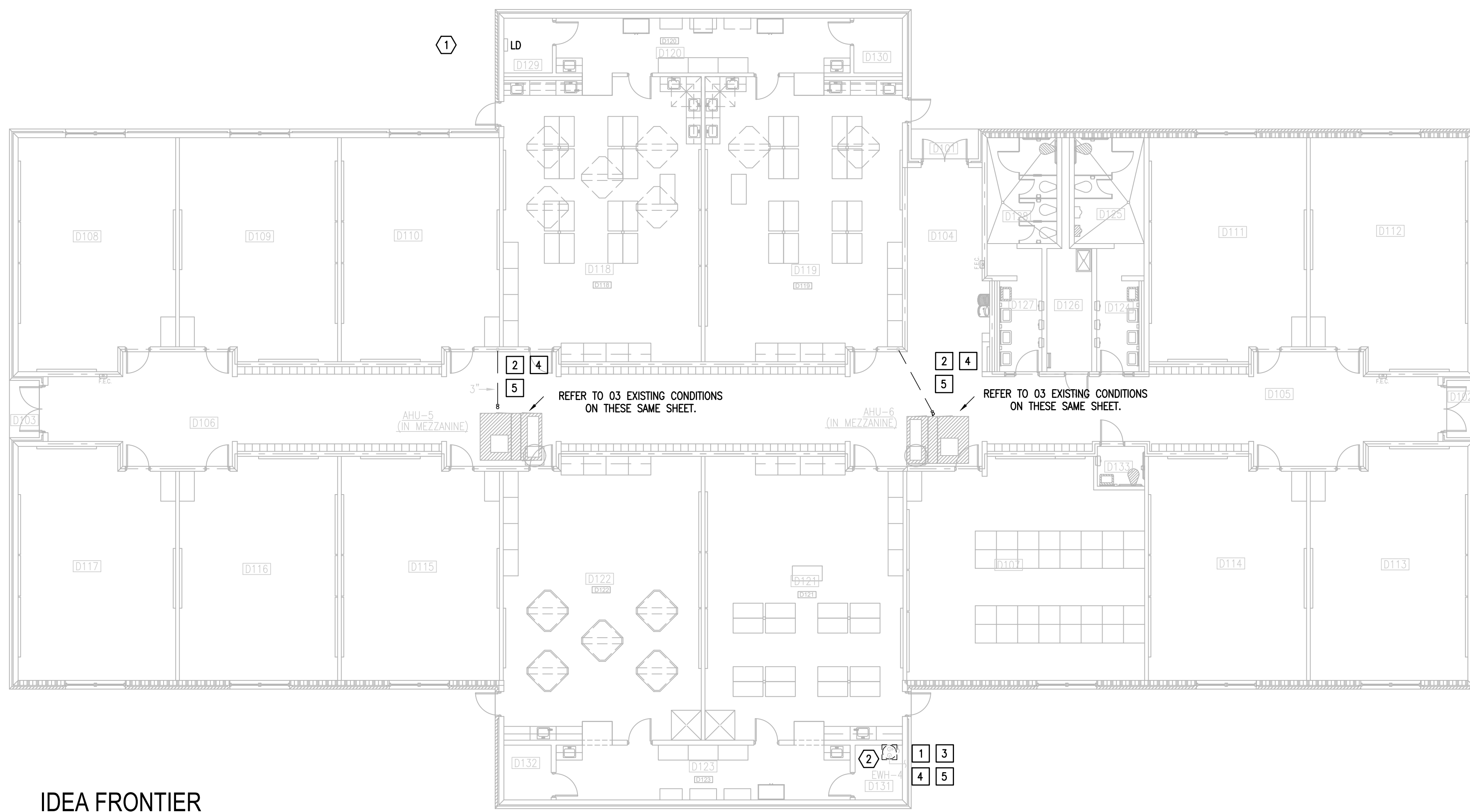


CONDENSATE DRAIN TRAP PIPE  
 04 SCALE: NOT TO SCALE

---	TO BE DEMOLISHED
---	NEW CONDENSATE PIPE
⊕	WALL HYDRANT TO BE REPLACED



FRONTIER IDEA ACADEMY  
 KEYPLAN



**IDEA FRONTIER**  
**01 DEMOLITION ELECTRICAL AND PLUMBING PLAN** (BUILDING D)  
 SCALE : 3/32" = 1'-0"  
 NORTH

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**ELECTRICAL NEW KEYED NOTES:**

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**DEMOLITION GENERAL NOTES:**

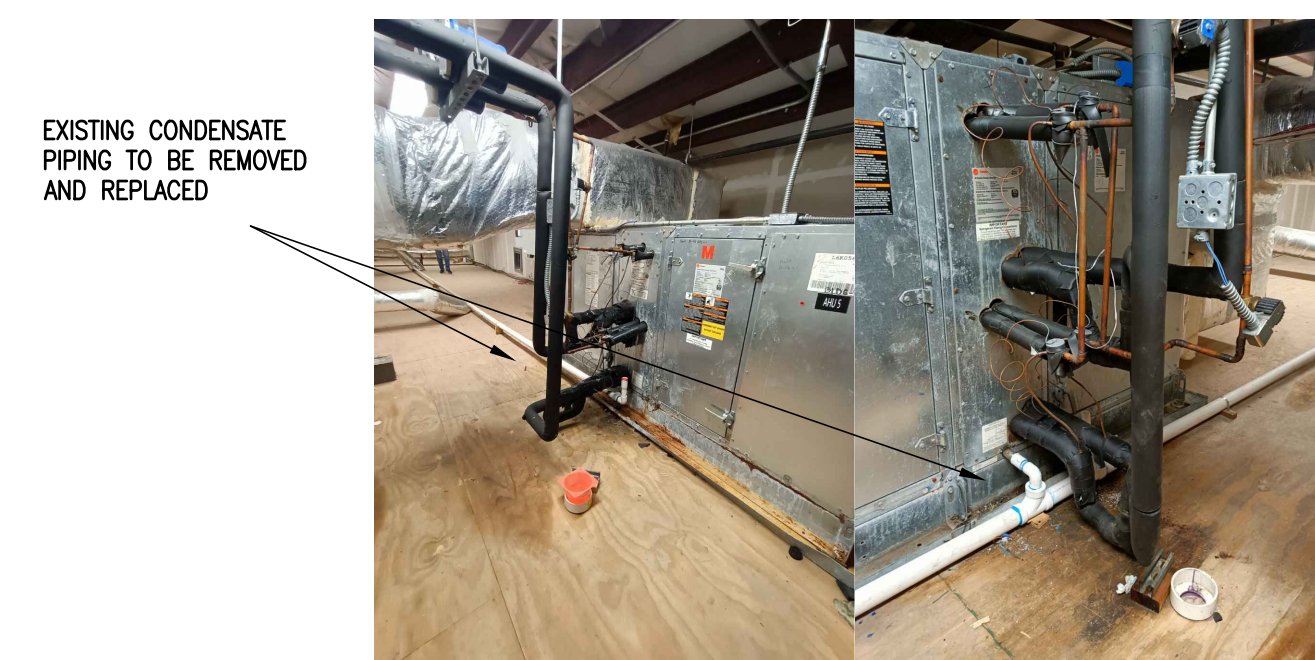
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- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

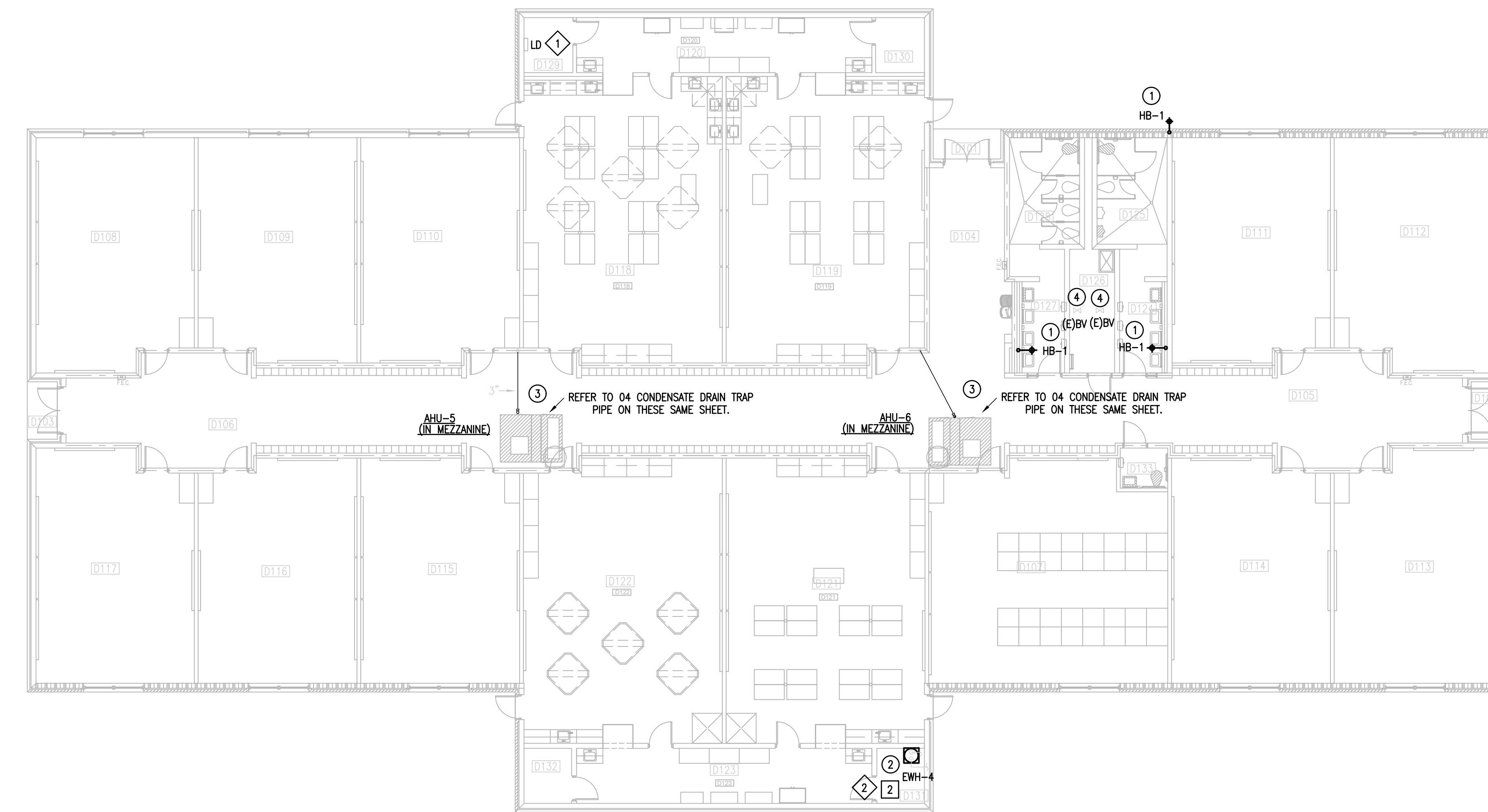
**PLUMBING KEYED NOTES:**

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-4 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW 1-1/2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

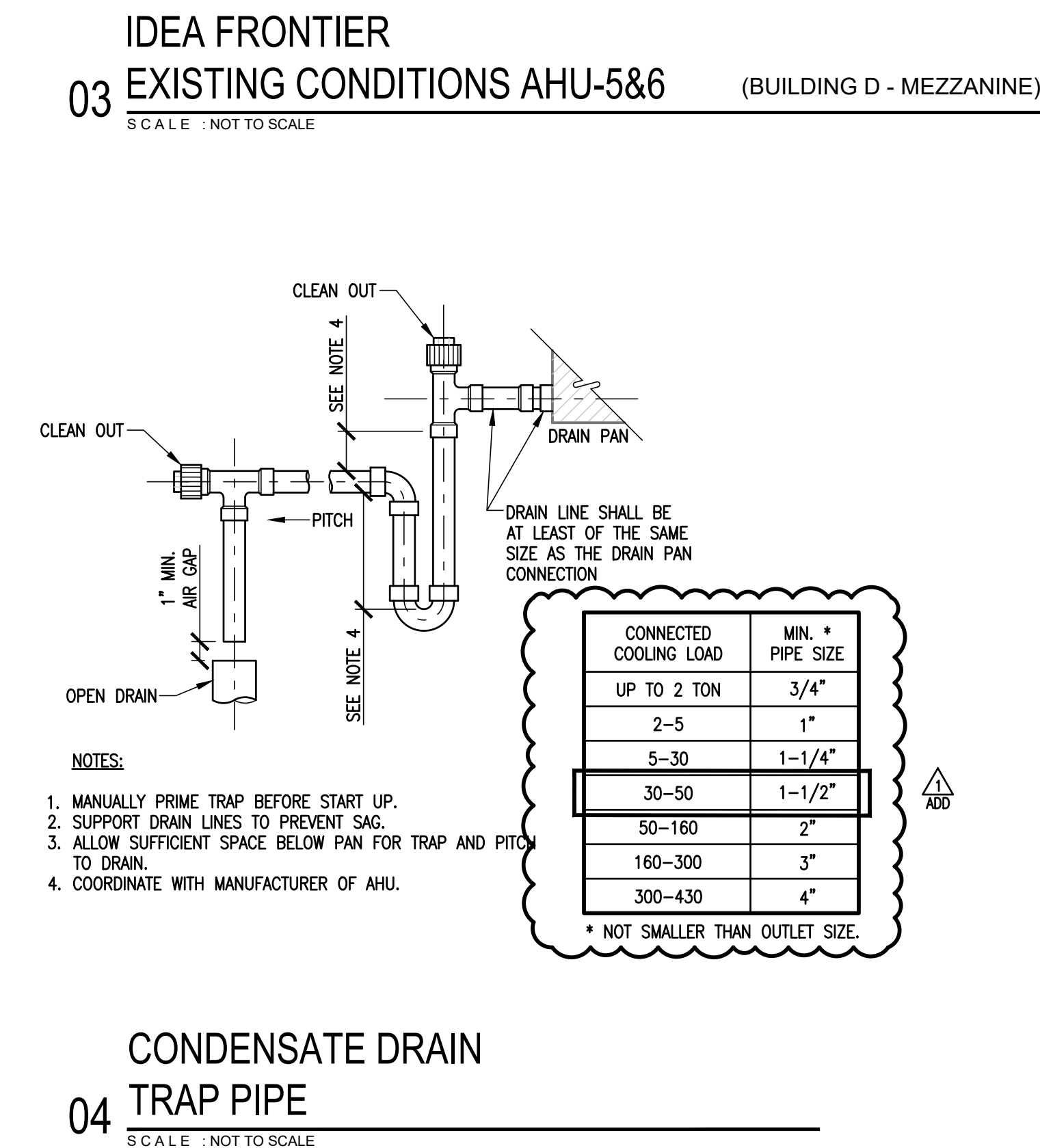


EXISTING CONDENSATE PIPING TO BE REMOVED AND REPLACED

**IDEA FRONTIER**  
**03 EXISTING CONDITIONS AHU-5&6** (BUILDING D - MEZZANINE)  
 SCALE : NOT TO SCALE

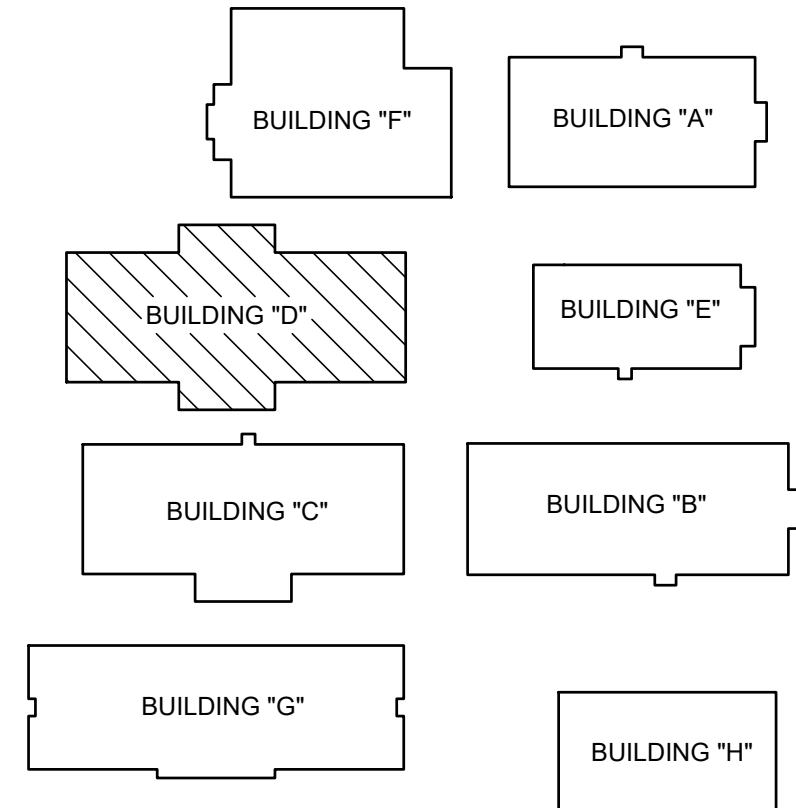


**IDEA FRONTIER**  
**02 NEW ELECTRICAL AND PLUMBING PLAN** (BUILDING D)  
 SCALE : 3/32" = 1'-0"  
 NORTH



**CONDENSATE DRAIN TRAP PIPE**  
 SCALE : NOT TO SCALE

PLUMBING LEGEND	
---	TO BE DEMOLISHED
---	NEW CONDENSATE PIPE
⊕	WALL HYDRANT TO BE REPLACED



**FRONTIER IDEA ACADEMY KEYPLAN**





**GENERAL NOTES:**

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

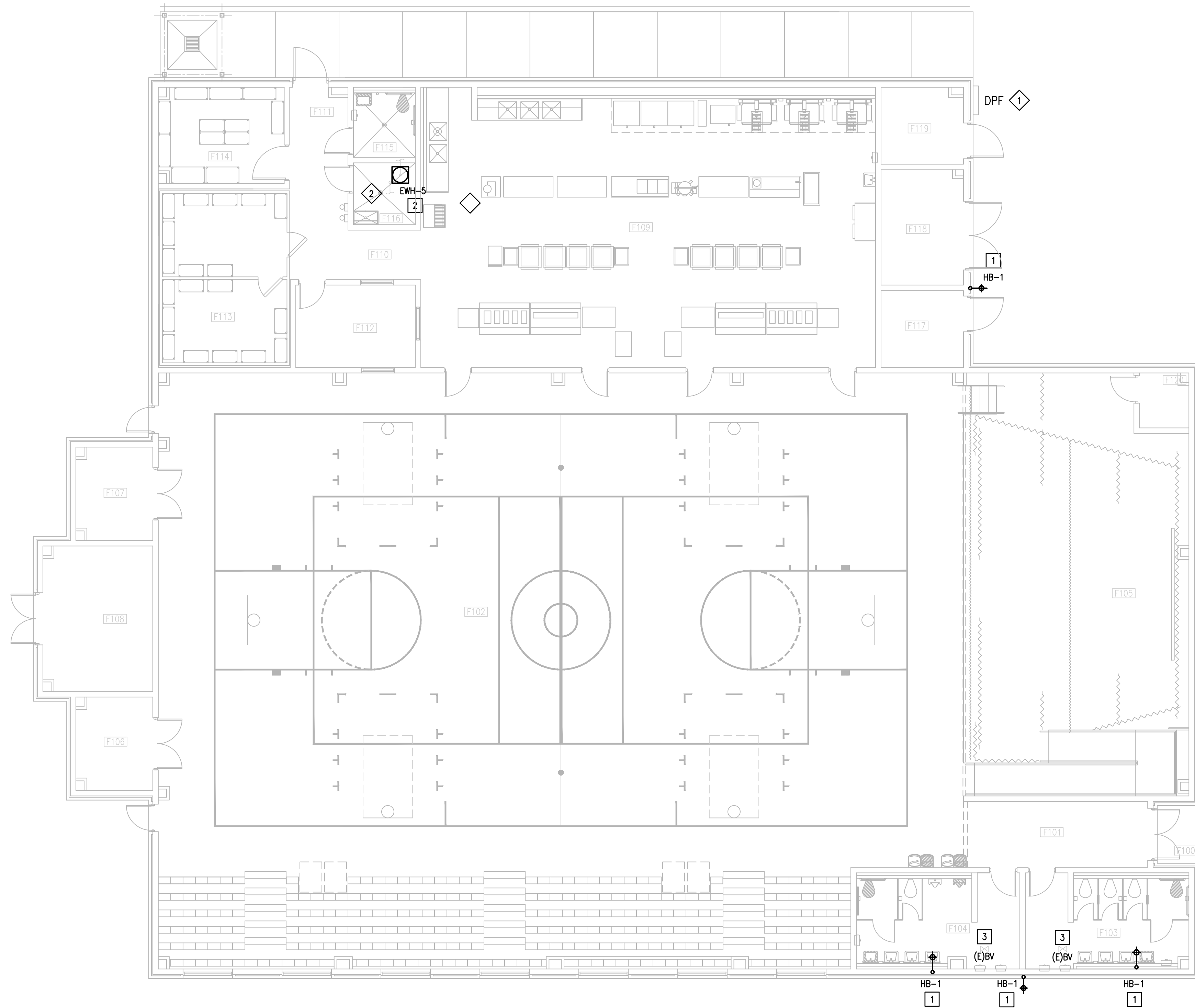
**PLUMBING KEYED NOTES:**

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-5 AS SCHEDULED OR AN APPROVED EQUAL REFER TO P5.11. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

**ELECTRICAL NEW KEYED NOTES:**

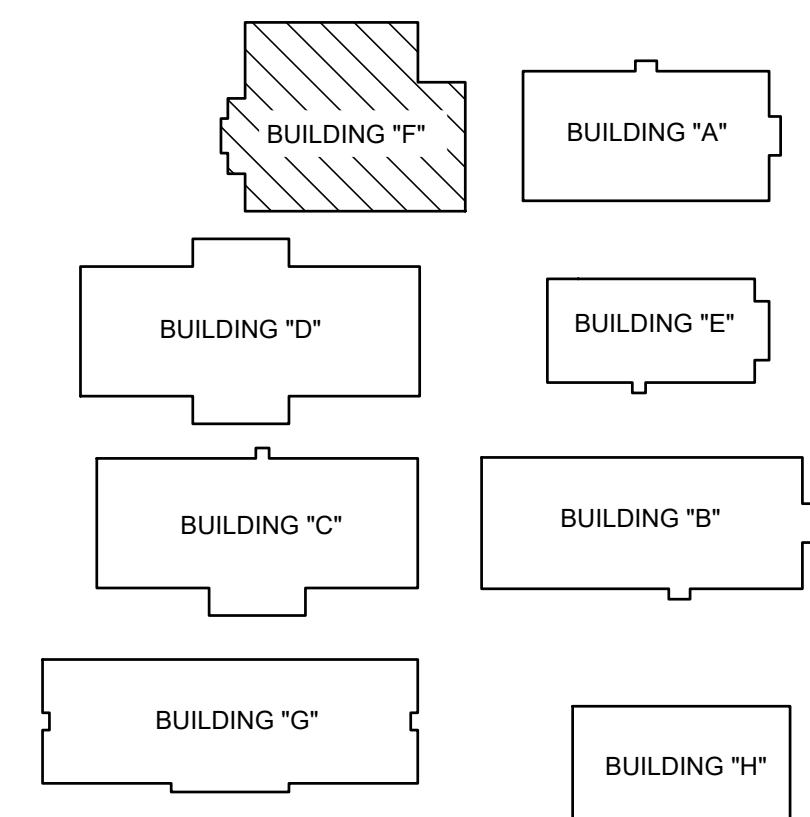
- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

PLUMBING LEGEND	
---	TO BE DEMOLISHED
⊕	WALL HYDRANT TO BE REPLACED



IDEA FRONTIER  
 01 NEW ELECTRICAL AND PLUMBING PLAN  
 SCALE : 1/8" = 1'-0"

(BUILDING F)



FRONTIER IDEA ACADEMY  
 KEYPLAN

IDEA PUBLIC SCHOOLS  
 LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.  
 MARLINGEN, TX  
 PHONE: 956-205-2435  
 TEXAS REGISTERED  
 ENGINEERING FIRM  
 E-15998

DATE: APRIL 19, 2024  
 CHECKED BY: C.A.G.  
 DRAWN BY: J.V.  
 PROJECT NO.: 23v82  
 CAD FILE:  
 SHEET:

P5.07

### PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS				NOTES	REMARKS
			WASTE	VENT	CW	HW		
EDF-1	ELKAY LVRCTL8SC APRON 98324C CARRIER ELKAY MLP200	WALL MOUNTED ADA VANDAL-RESISTANT FILTERED, 8.0 GPH STAINLESS STEEL, BI-LEVEL ELECTRIC DRINKING FOUNTAIN, VANDAL-RESISTANT BUBBLERS WITH CHROME PLATED INTEGRAL HOOD GUARD, PVC P-TRAP, INDOOR RATED, APRON AND CARRIER, ADULT STANDARD & ADULT ADA MOUNTING.	2"	2"	1/2"	-	-	-
EDF-2	ELKAY LVRCTL8WSK APRON 98324C CARRIER ELKAY MLP200	WALL MOUNTED ADA VANDAL-RESISTANT FILTERED, 8.0 GPH STAINLESS STEEL, BOTTLE FILLING STATION & BI-LEVEL ELECTRIC DRINKING FOUNTAIN, VANDAL-RESISTANT BUBBLERS WITH CHROME PLATED INTEGRAL HOOD GUARD, PVC P-TRAP, INDOOR RATED, APRON AND CARRIER, ADULT STANDARD & ADULT ADA MOUNTING.	2"	2"	1/2"	-	-	-
WH-1&2	WOODFORD MODEL 65	THE MODEL 65 ARE AUTOMATIC DRAINING, FREEZELESS WALL HYDRANTS WITH SINGLE CHECK HOSE CONNECTION ANTI-SIPHON VACUUM BREAKERS. HYDRANTS DRAIN AS HANDLE IS SHUT OFF, EVEN IF HOSE IS ATTACHED. ALL MODELS ARE DESIGNED FOR IRRIGATION PURPOSES TO BLEND IN WITH MODERN ARCHITECTURE FOR INSTALLATION ON RESTAURANTS, SCHOOLS, OFFICE BUILDINGS, CHURCHES, APARTMENTS, MOTELS, STORES, SHOPPING CENTERS AND INDUSTRIAL BUILDINGS.	-	-	3/4"	-	-	-
HB-1	WOODFORD MODEL 26	THE MODEL 26 ARE FIELD TESTABLE, BACKFLOW PROTECTED WALL FAUCETS INTENDED FOR IRRIGATION PURPOSES IN MILD CLIMATE AREAS. THE MODELS ARE DESIGNED TO BLEND WITH MODERN ARCHITECTURE FOR INSTALLATION ON OR IN HOMES, SERVICE STATIONS, CHURCHES, MOTELS, DRIVEIN RESTAURANTS, ETC.	-	-	3/4"	-	-	-

### ELECTRIC WATER HEATER SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	LOCATION	SERVING	GALLON CAPACITY	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 120°F RISE	ELECT. V/P/H	MANUFACTURER & MODEL	NOTES
EWH-1	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-2	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-3	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-4	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-5	SEE PLANS	SEE PLANS	120	54	3	185	480/3/60	A.O. SMITH DSE-120A	ALL

NOTES:

1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
2. PROVIDE IMMERSION TYPE THERMOSTAT.



03 EDF-1  
SCALE: NOT TO SCALE



04 EDF-2  
SCALE: NOT TO SCALE



05 WH-1&2  
SCALE: NOT TO SCALE



06 HB-1  
SCALE: NOT TO SCALE



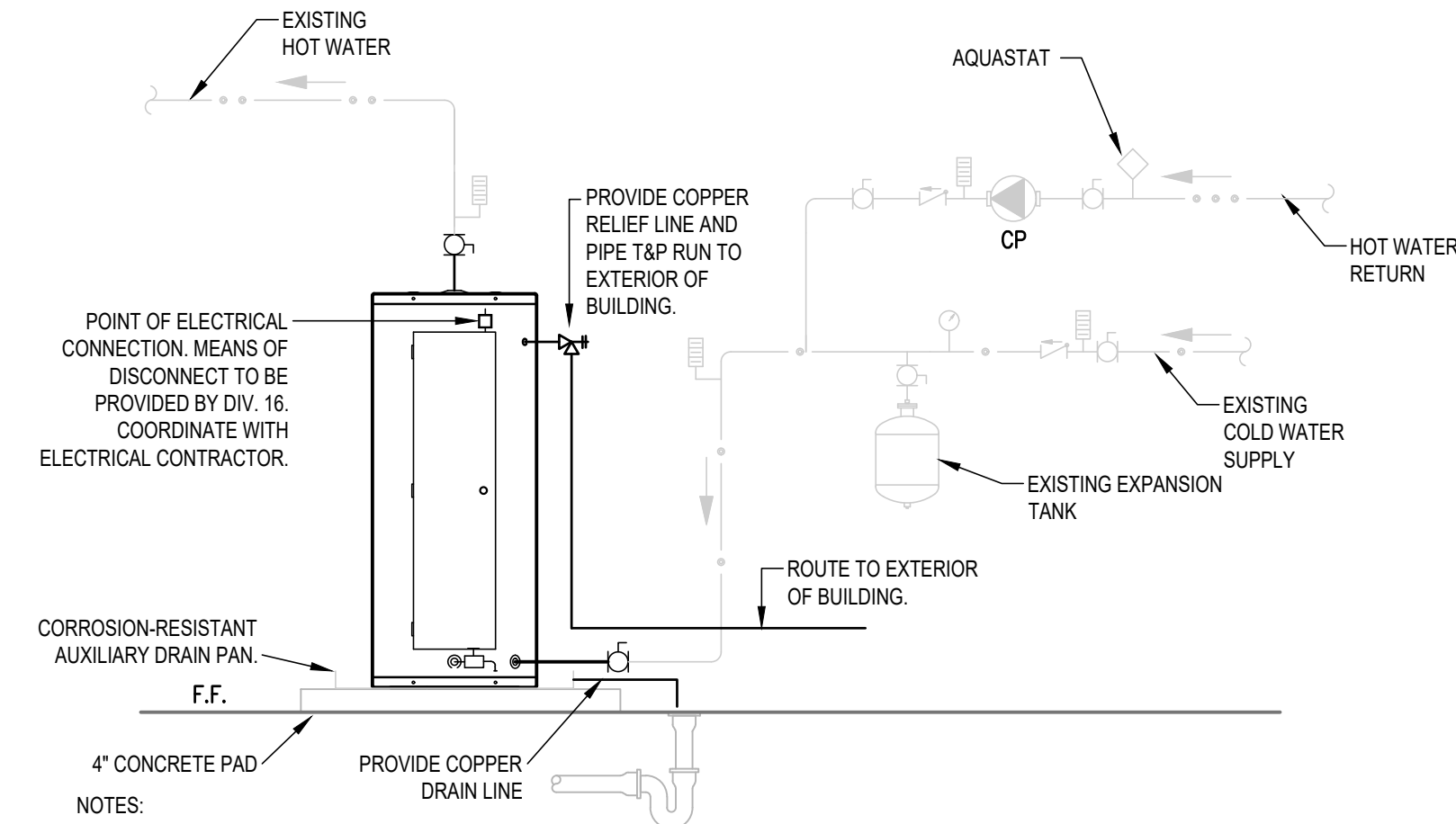
07 EWH-1,2,3&4  
SCALE: NOT TO SCALE



09 EWH-5  
SCALE: NOT TO SCALE

### EWH-5 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL

01 SCALE: NOT TO SCALE

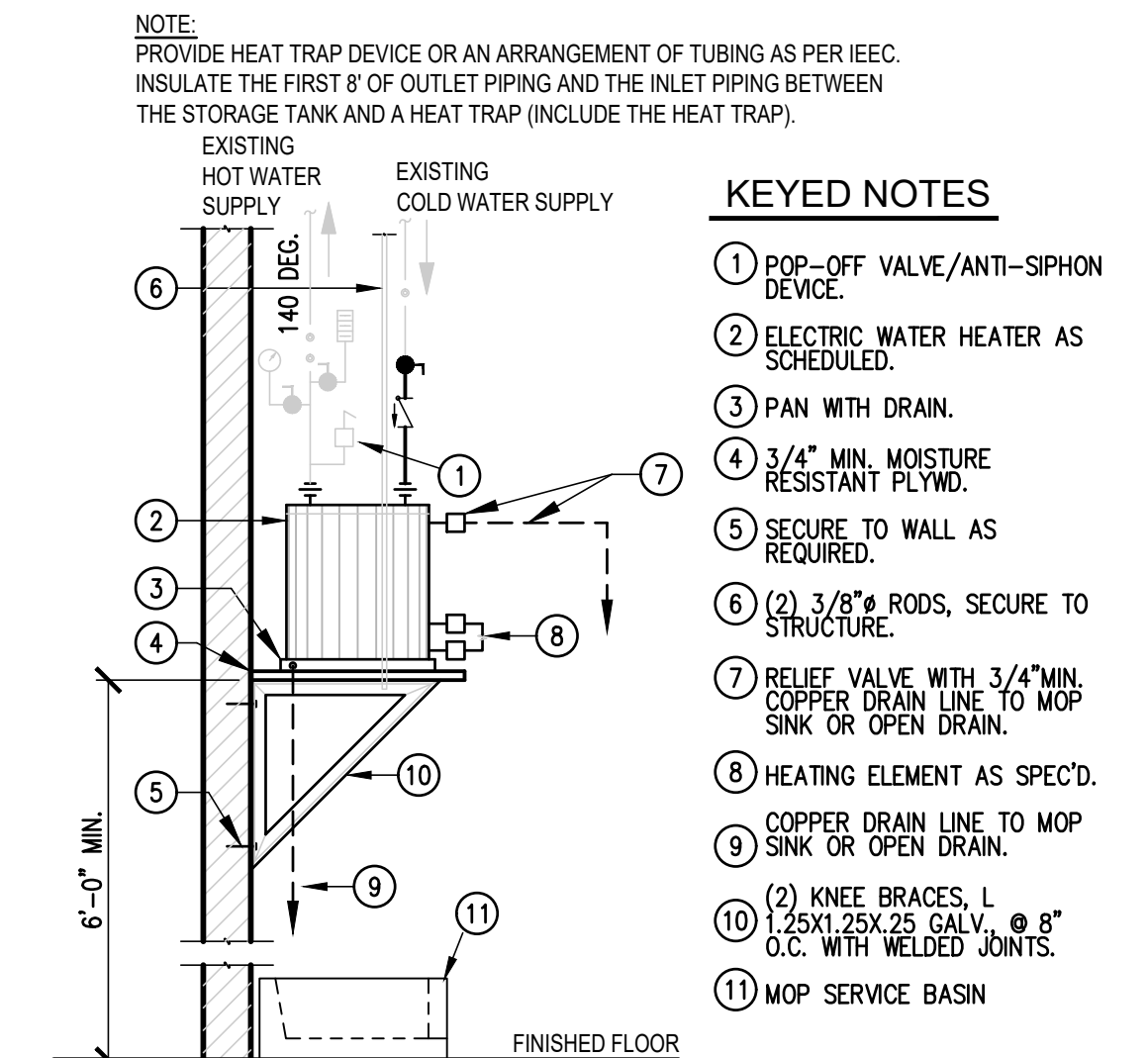


- NOTES:
1. PREFERRED PIPING DIAGRAM.
  2. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
  3. PROVIDE HEAT TRAP DEVICE OR AN ARRANGEMENT OF TUBING AS PER IECC. INSULATE THE FIRST 8' OF OUTLET PIPING AND THE INLET PIPING BETWEEN THE STORAGE TANK AND HEAT TRAP (INCLUDE THE HEAT TRAP).
  4. WHERE WATER HEATER IS INSTALLED IN A ROOM WITH SUSPENDED CEILING, SHUT OFF VALVES MUST BE LOCATED BELOW SUSPENDED CEILING.

#### LEGEND

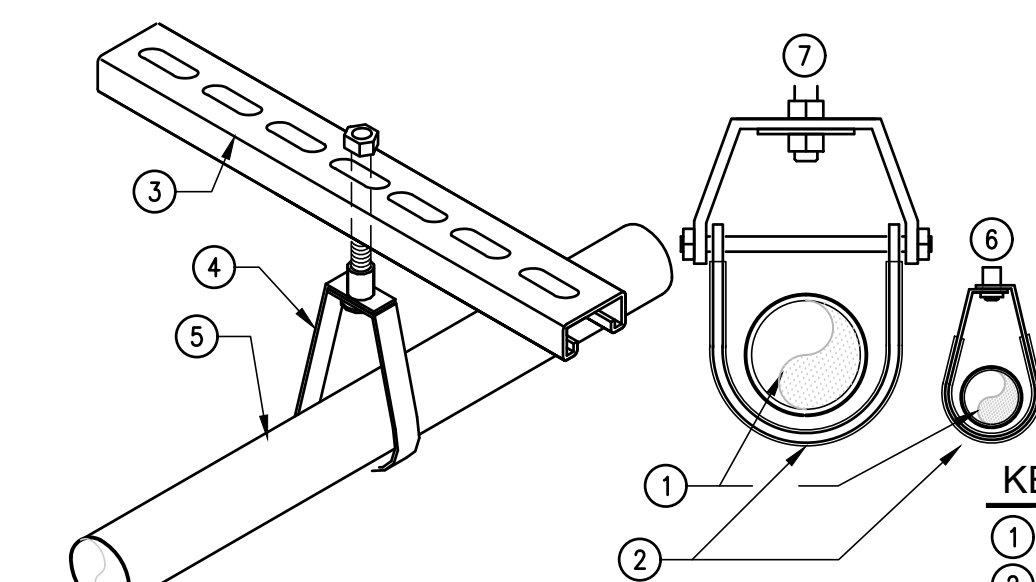

### EWH-1,2,3&4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL

02 SCALE: NOT TO SCALE



#### KEYED NOTES

1. POP-OFF VALVE/ANTI-SIPHON DEVICE.
2. ELECTRIC WATER HEATER AS SCHEDULED.
3. PAN WITH DRAIN.
4. 3/4" MIN. MOISTURE RESISTANT PLWD.
5. SECURE TO WALL AS REQUIRED.
6. (2) 3/8" RODS, SECURE TO STRUCTURE.
7. RELIEF VALVE WITH 3/4" MIN. COPPER DRAIN LINE TO MOP SINK OR OPEN DRAIN.
8. HEATING ELEMENT AS SPEC'D.
9. COPPER DRAIN LINE TO MOP SINK OR OPEN DRAIN.
10. (2) KNEE BRACES, L 1.25X1.25X.25 GALV., 8" O.C. WITH WELDED JOINTS.
11. MOP SERVICE BASIN

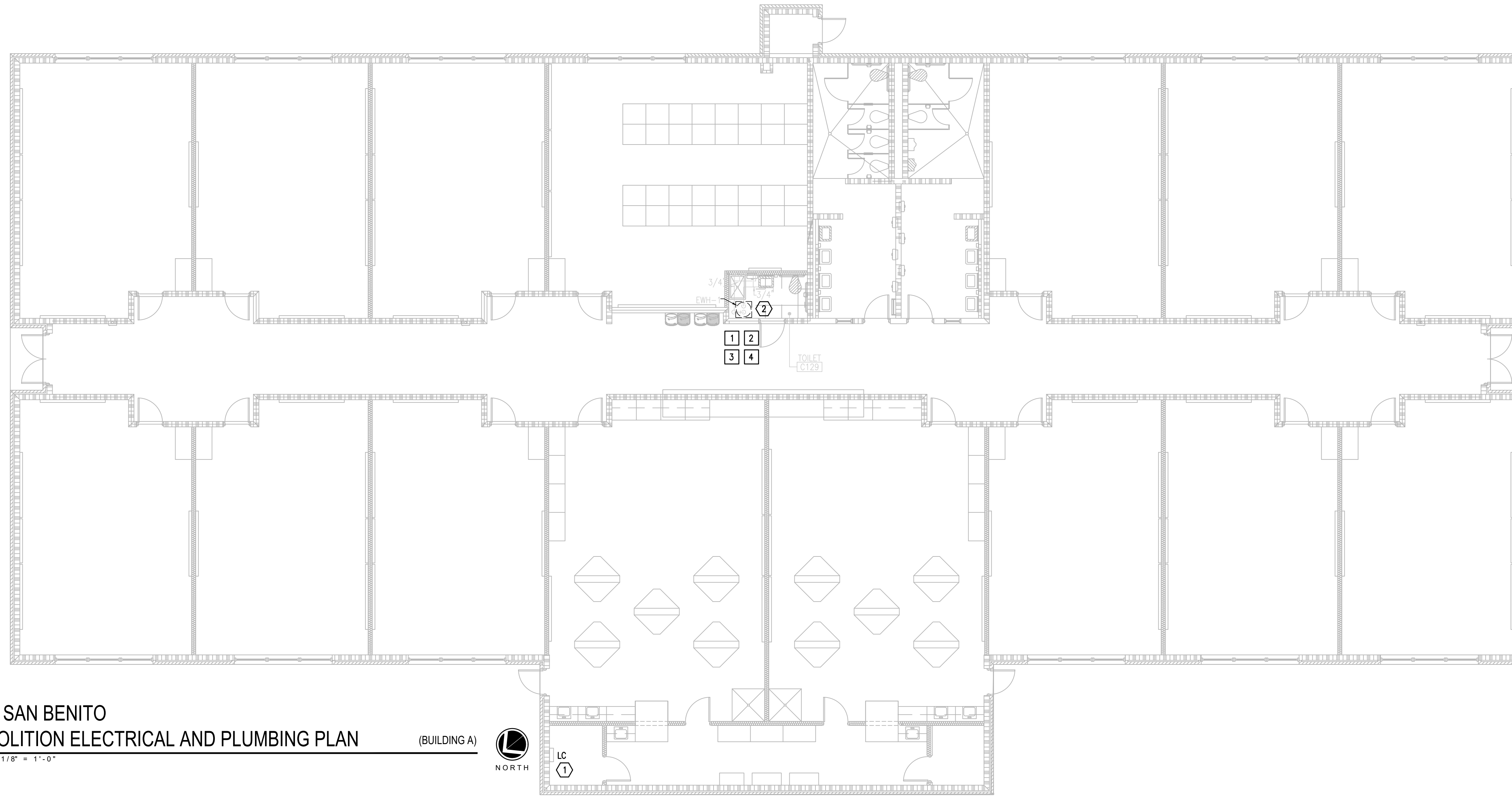


- NOTES:
1. PROVIDE PLASTIC COATED HANGERS: COOPER B-LINE
  2. MODEL: B3100C OR APPROVED EQUAL FOR CLEVIS
  3. HANGERS: MODEL: B3172C OR APPROVED EQUAL FOR BAND HANGERS.
- #### KEYED NOTES
1. SCHEDULED PIPE.
  2. PLASTIC COATING.
  3. UNI-STRUT.
  4. PIPE HANGER.
  5. DOMESTIC WATER LINE, COPPER DRAIN LINE FROM AHUS.
  6. BAND HANGER.
  7. CLEVIS HANGER.

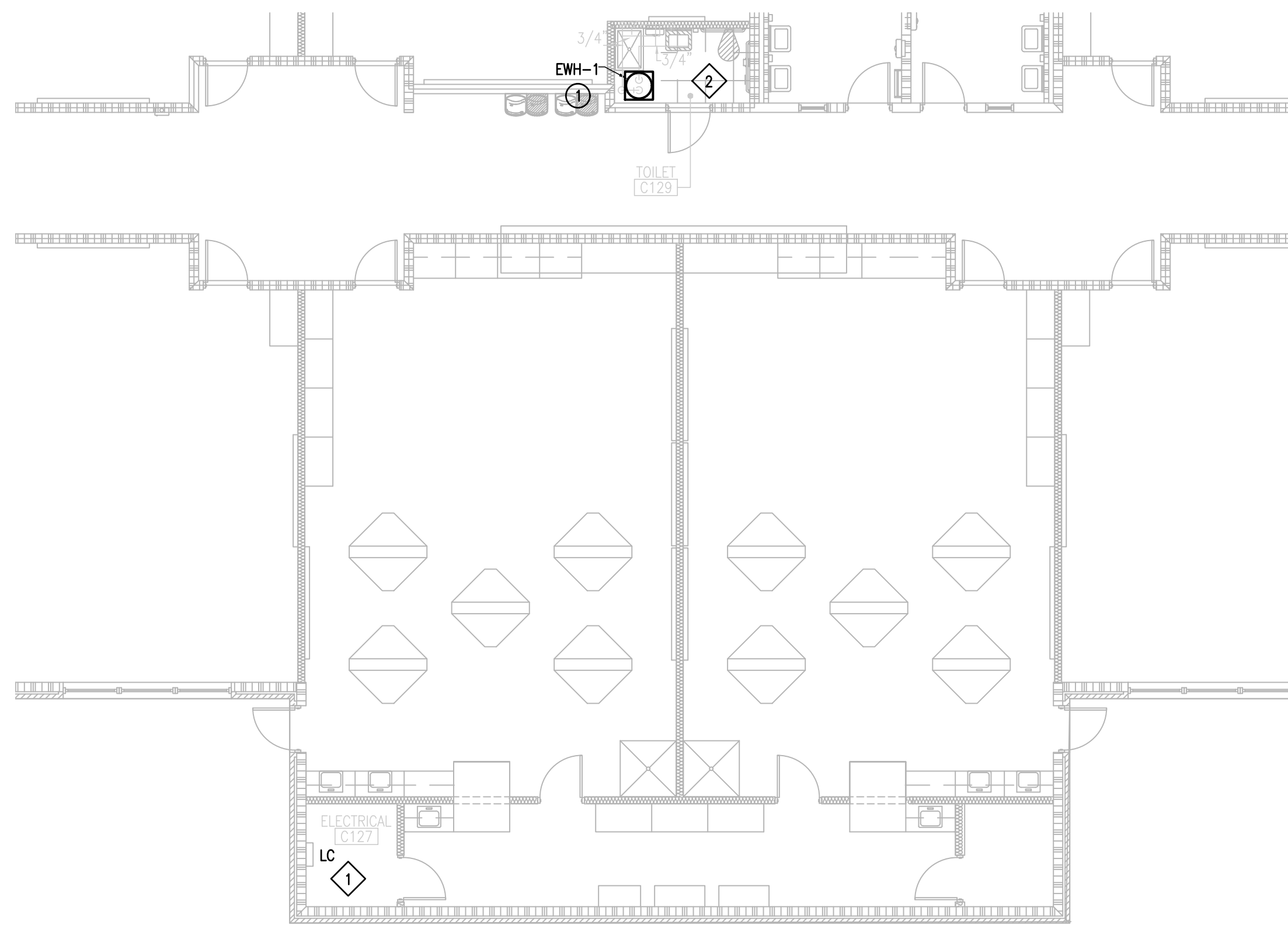
### DOMESTIC WATER LINE PIPING SUPPORT DETAIL

08 SCALE: NOT TO SCALE





01 IDEA SAN BENITO  
 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING A)  
 SCALE: 1/8" = 1'-0"



02 IDEA SAN BENITO  
 NEW ELECTRICAL PLUMBING PLAN (BUILDING A)  
 SCALE: 1/8" = 1'-0"

**DEMOLITION GENERAL NOTES:**

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

**GENERAL NOTES:**

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

**DEMOLITION PLUMBING KEYED NOTES:**

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

**PLUMBING KEYED NOTES:**

- 1 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-1 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P6.05. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P6.05.

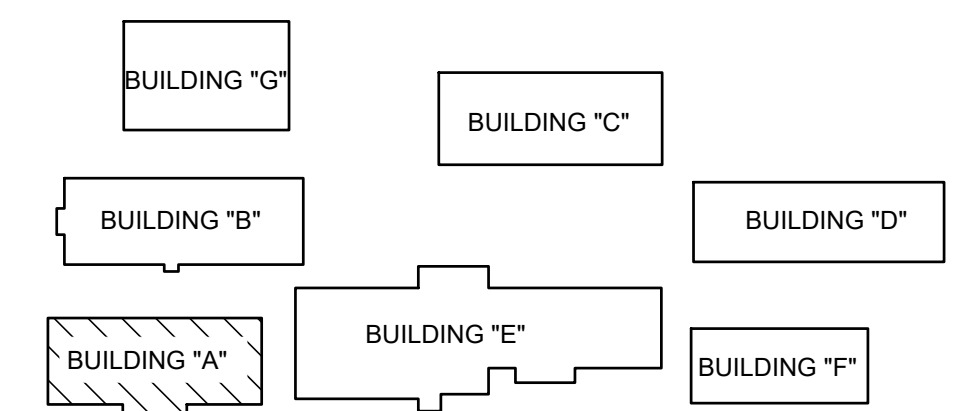
PLUMBING LEGEND	
---	TO BE DEMOLISHED

**DEMOLITION ELECTRICAL KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

**ELECTRICAL NEW KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



SAN BENITO IDEA ACADEMY  
 KEYPLAN





**DEMOLITION GENERAL NOTES:**

- ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
- A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
- PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
- ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
- PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
- PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

**GENERAL NOTES:**

- PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
- PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

**DEMOLITION PLUMBING KEYED NOTES:**

- DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

**PLUMBING KEYED NOTES:**

- PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-2 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P6.05. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P6.05.

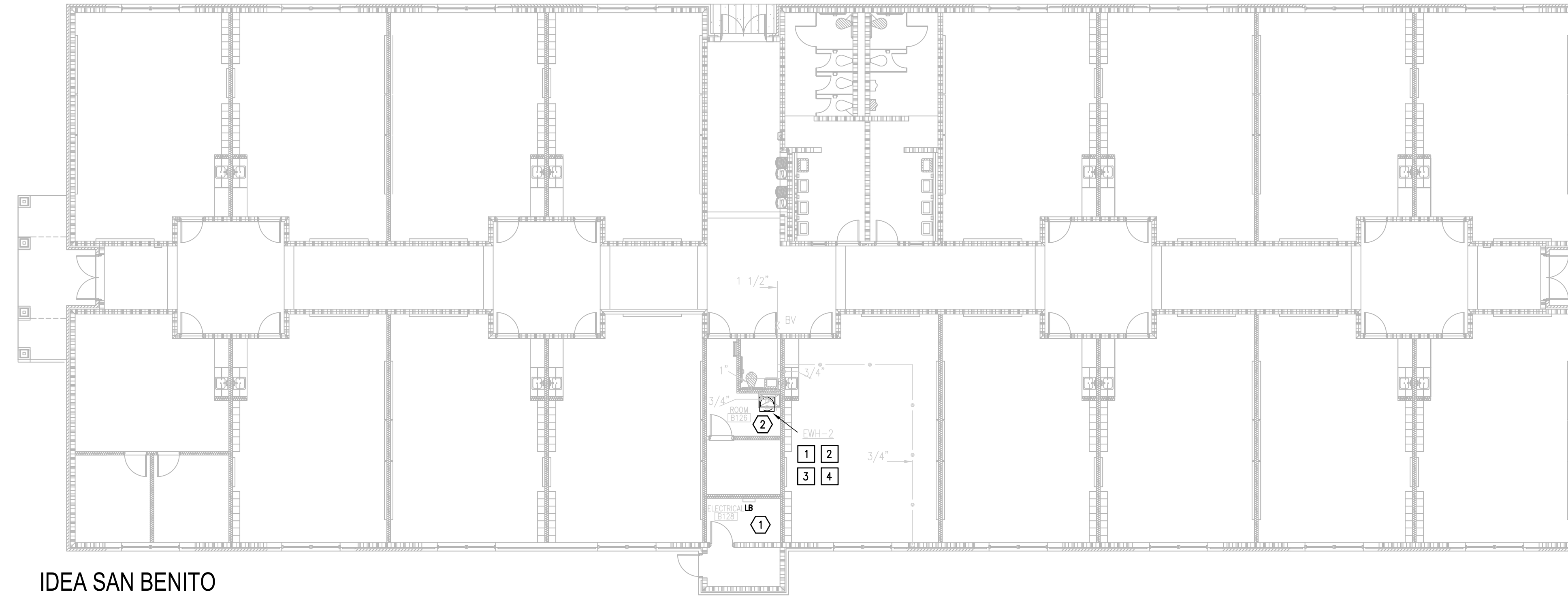
PLUMBING LEGEND	
---	TO BE DEMOLISHED

**DEMOLITION ELECTRICAL KEYED NOTES:**

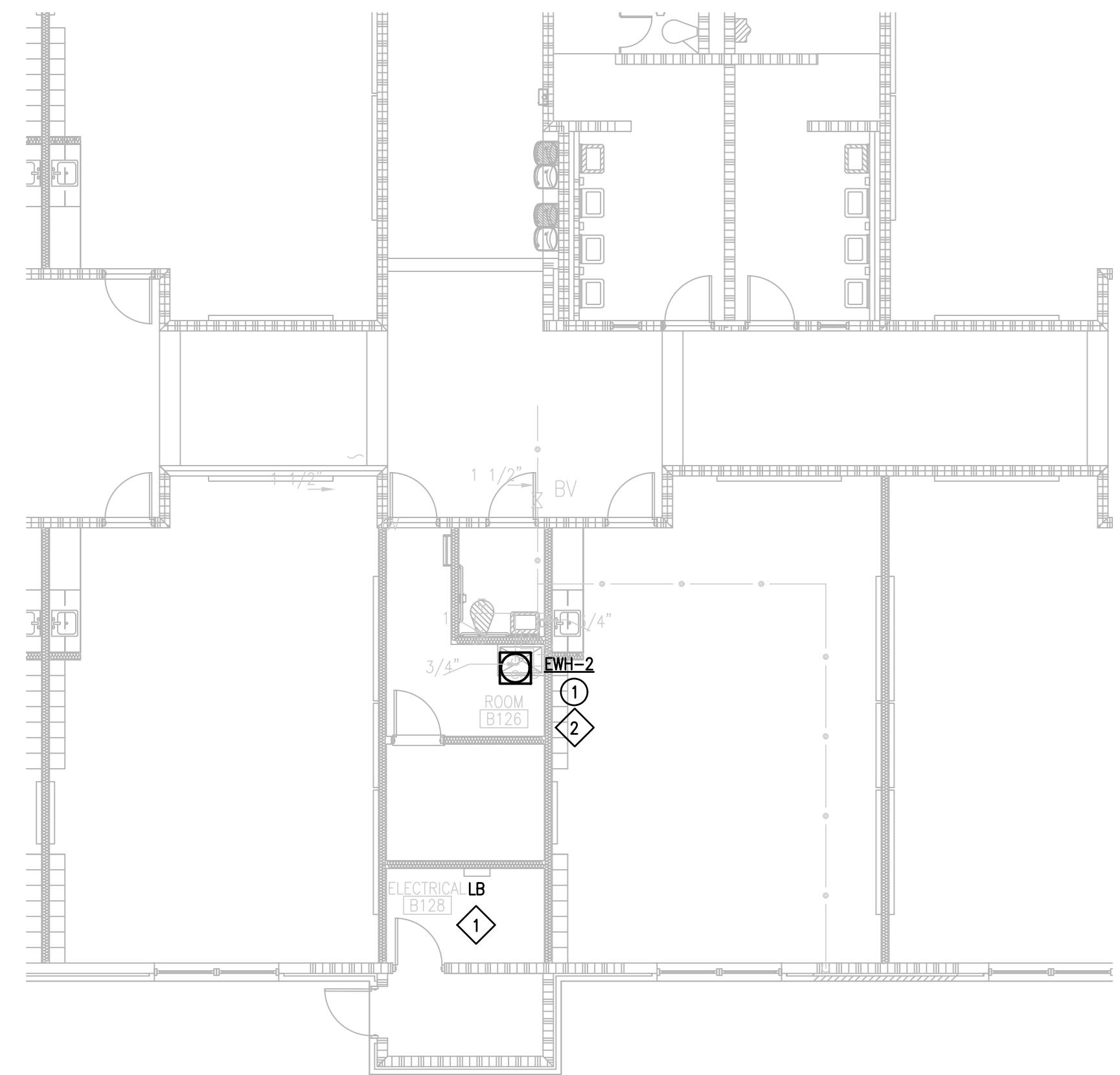
- APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

**ELECTRICAL NEW KEYED NOTES:**

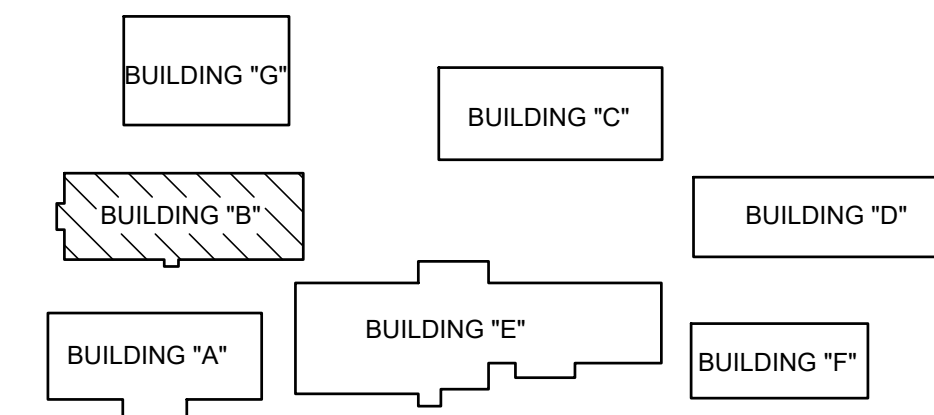
- APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



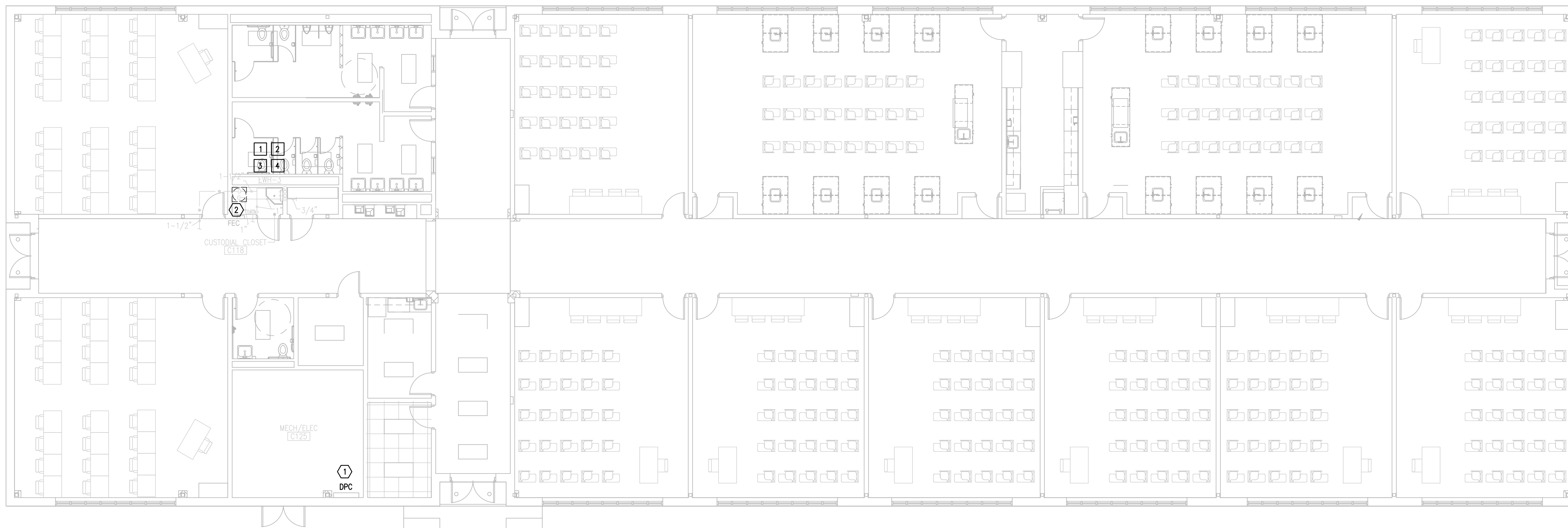
IDEA SAN BENITO  
 01 DEMOLITION ELECTRICAL AND PLUMBING PLAN  
 SCALE : 3/32" = 1'-0"  
 (BUILDING B) NORTH



IDEA SAN BENITO  
 02 NEW ELECTRICAL AND PLUMBING PLAN  
 SCALE : 1/8" = 1'-0"  
 (BUILDING B) NORTH



SAN BENITO IDEA ACADEMY  
 KEYPLAN



**01 IDEA SAN BENITO**  
**DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING D)**  
 SCALE : 1/8" = 1'-0"  
 NORTH



**02 IDEA SAN BENITO**  
**NEW ELECTRICAL AND PLUMBING PLAN (BUILDING D)**  
 SCALE : 1/8" = 1'-0"  
 NORTH

**DEMOLITION GENERAL NOTES:**

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

**GENERAL NOTES:**

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

**DEMOLITION PLUMBING KEYED NOTES:**

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

**PLUMBING KEYED NOTES:**

- 1 PROVIDE AND INSTALL NEW ELECTRIC WATER HEATER EWH-3 AS SCHEDULED OR AN APPROVED EQUAL. REFER TO P6.05. ADJUST PLUMBING LINES AND FITTINGS AS NECESSARY TO RECEIVE NEW WATER HEATER. REFER TO DETAIL ON DETAIL SHEET P6.05.

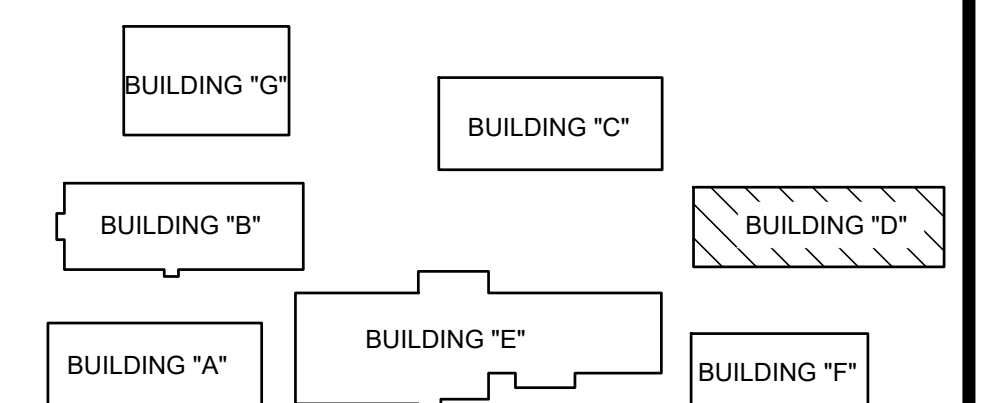
PLUMBING LEGEND	
---	TO BE DEMOLISHED

**DEMOLITION ELECTRICAL KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

**ELECTRICAL NEW KEYED NOTES:**

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



**FRONTIER IDEA ACADEMY**  
**KEYPLAN**



### PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
TS-1	ZURN 1072	TRAP SEAL DEVICE WITH AN ABS RIGID STRUCTURE, SILICONE GASKET.	3"	-	-	-	-	

### ELECTRIC WATER HEATER SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	LOCATION	SERVING	GALLON CAPACITY	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 120°F RISE	ELECT. V/P/H	MANUFACTURER & MODEL	NOTES
EWH-1	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-2	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-3	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL

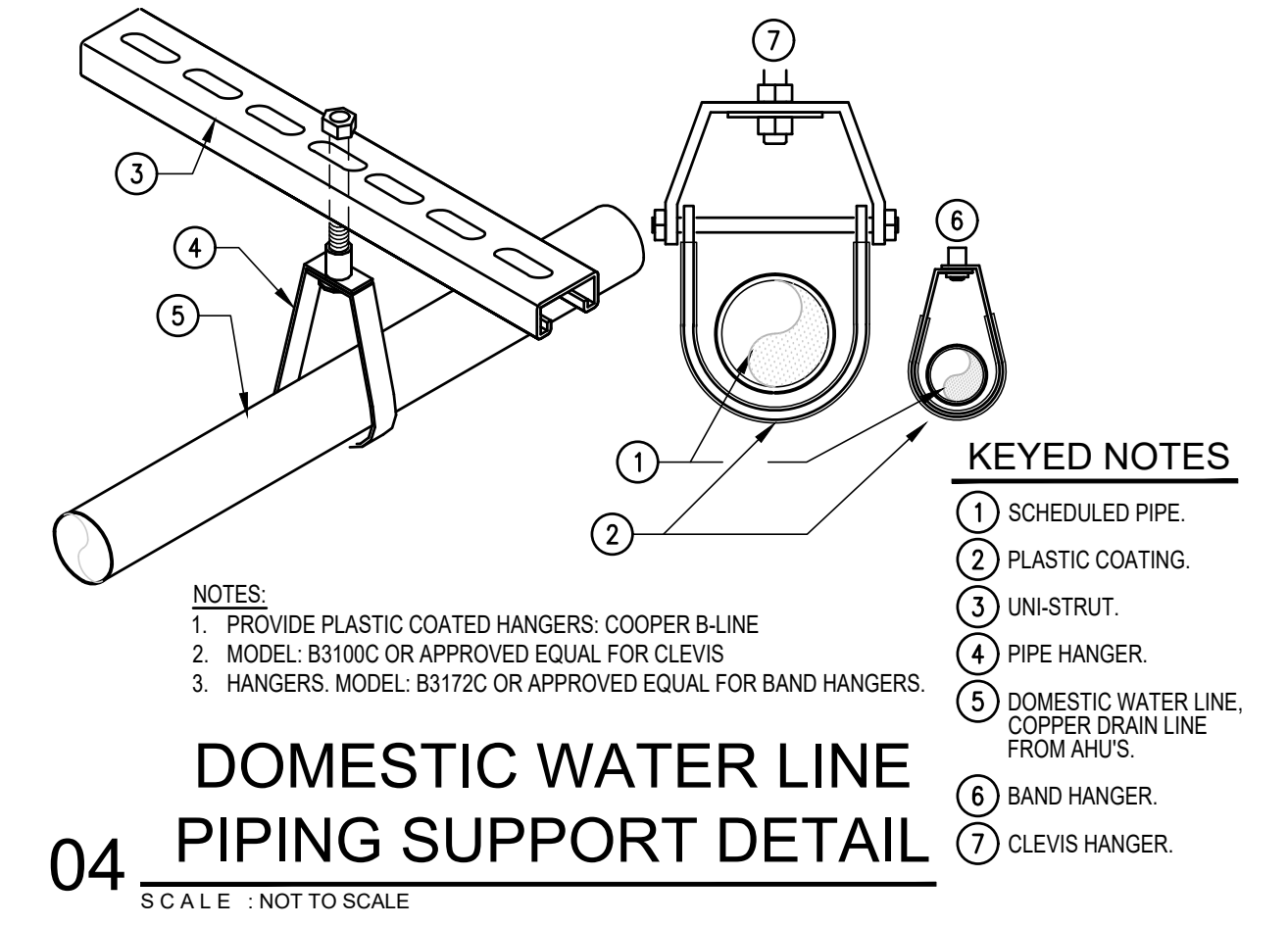
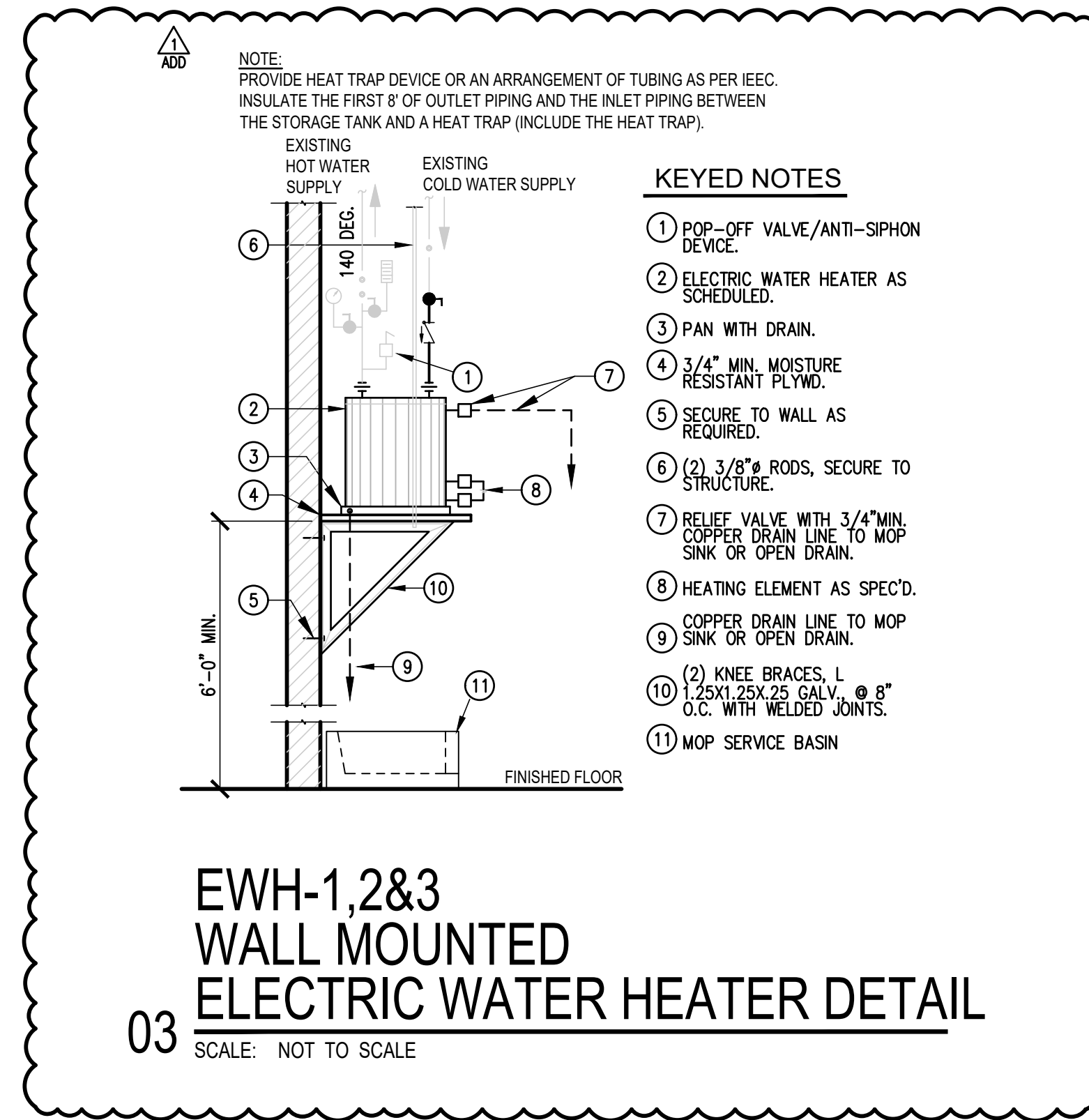
**NOTES:**

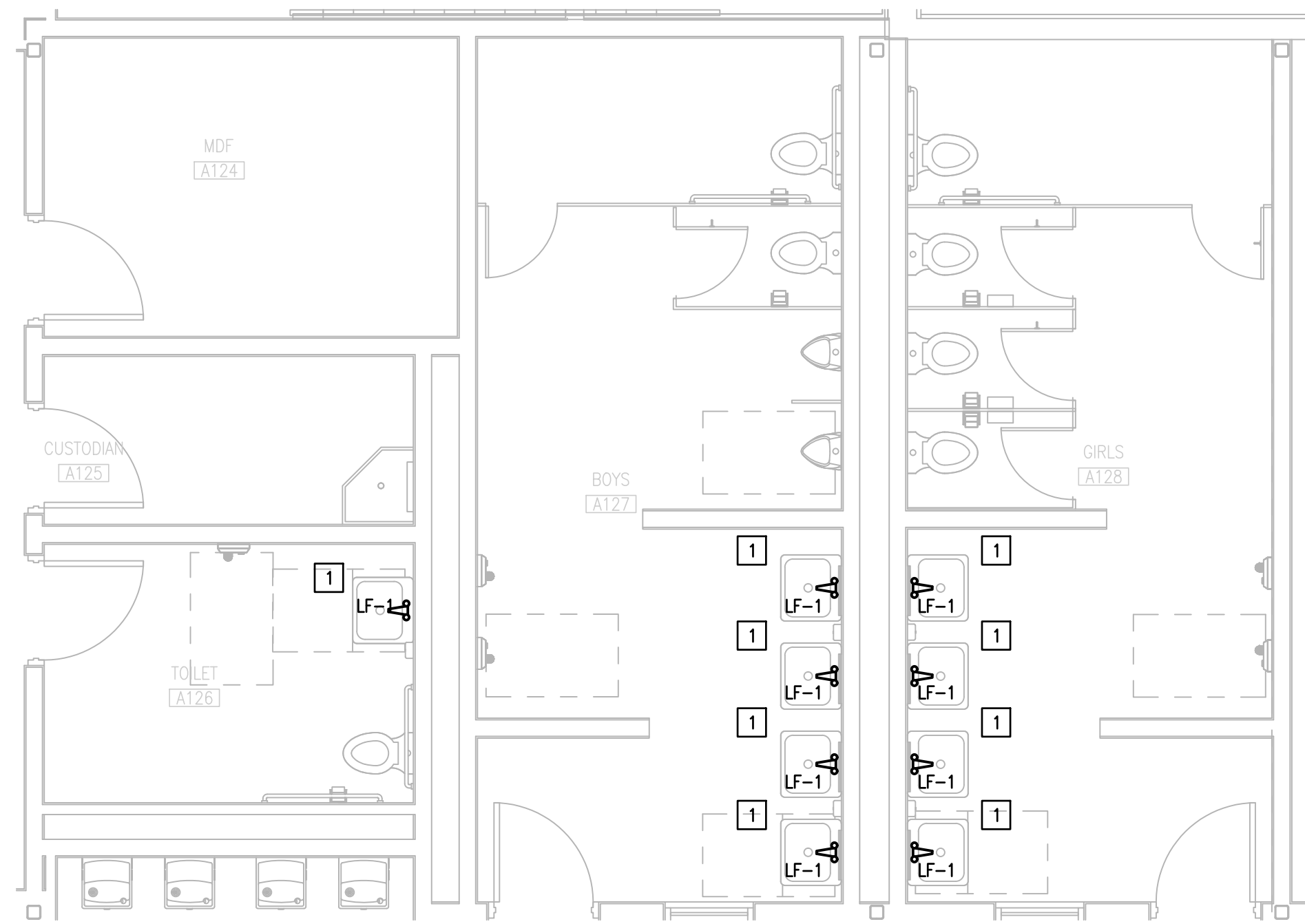
1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
2. PROVIDE IMMERSION TYPE THERMOSTAT.

01 EWH-1,2&3  
SCALE: NOT TO SCALE



02 TS-1  
SCALE: NOT TO SCALE



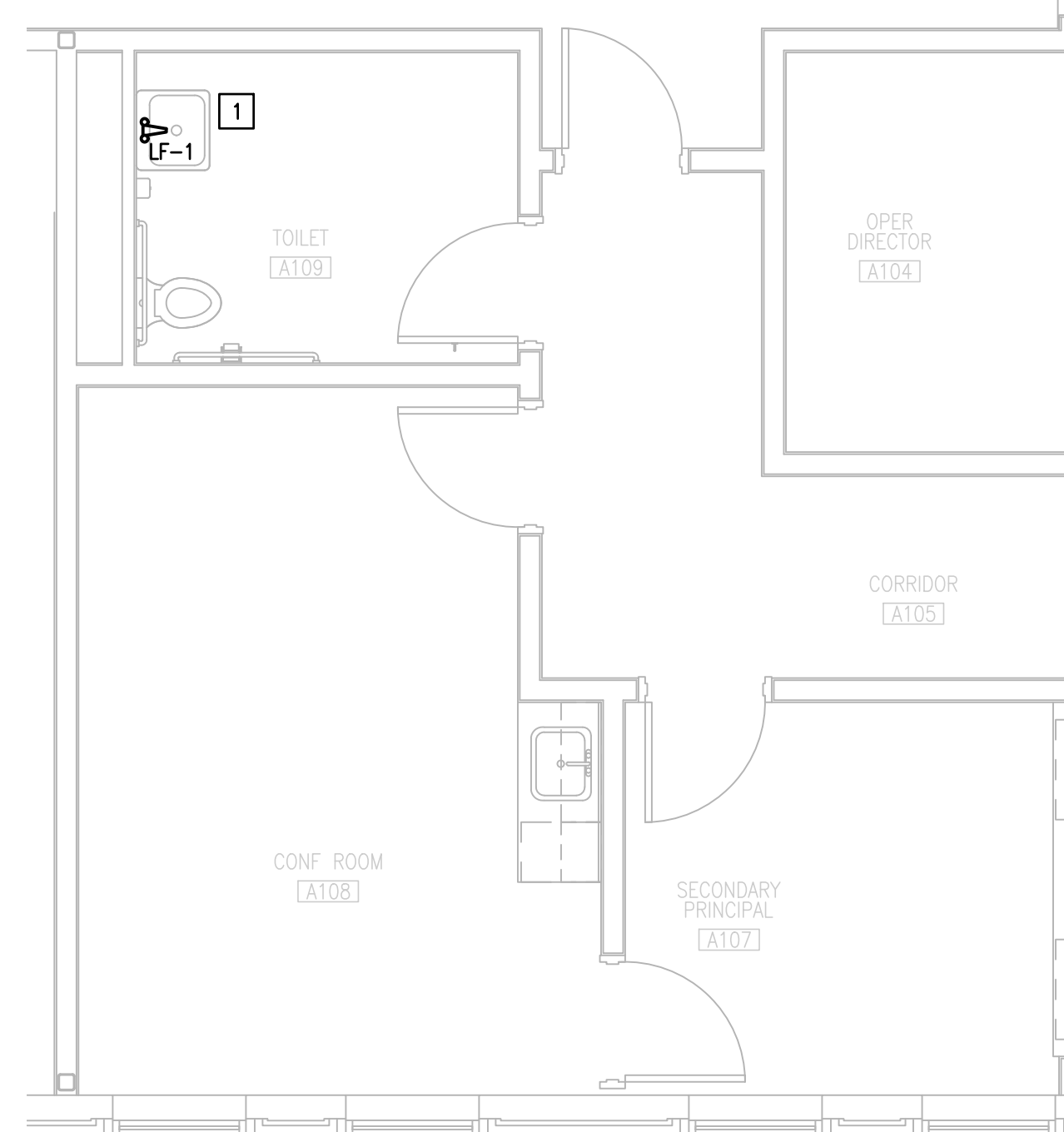


ENLARGEMENT IDEA WESLACO  
01 NEW PLUMBING PLAN

(MAIN BUILDING- 1ST FLOOR)



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



ENLARGEMENT IDEA WESLACO  
02 NEW PLUMBING PLAN

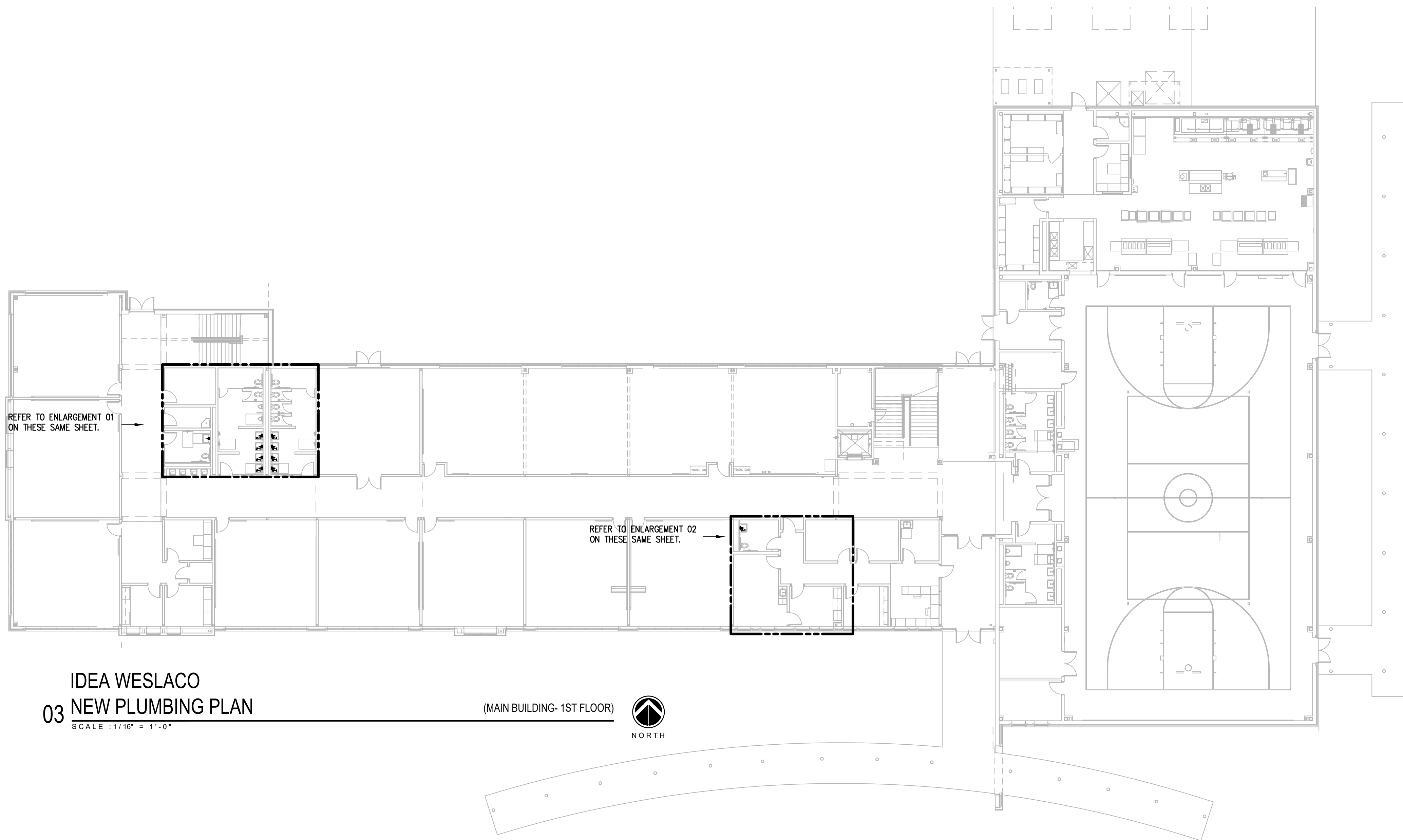
(MAIN BUILDING- 1ST FLOOR)



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

PLUMBING KEYED NOTES:

1 REPLACE EXISTING FAUCET WITH NEW ONE AS SCHEDULED ON SHEET P7.05. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.

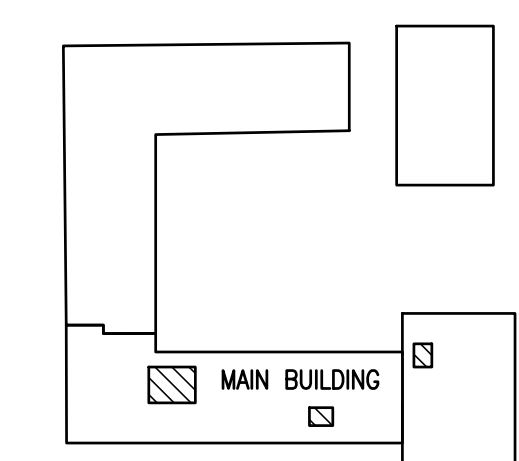


IDEA WESLACO  
03 NEW PLUMBING PLAN

(MAIN BUILDING- 1ST FLOOR)

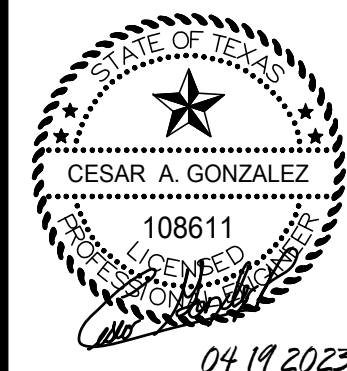


SCALE : 1/16" = 1'-0"



WESLACO IDEA ACADEMY  
KEYPLAN

NO. REVISION: BY:  
04/29/2024 ETHOS  
COPY NO:  
CSP # 27-LRP-0424



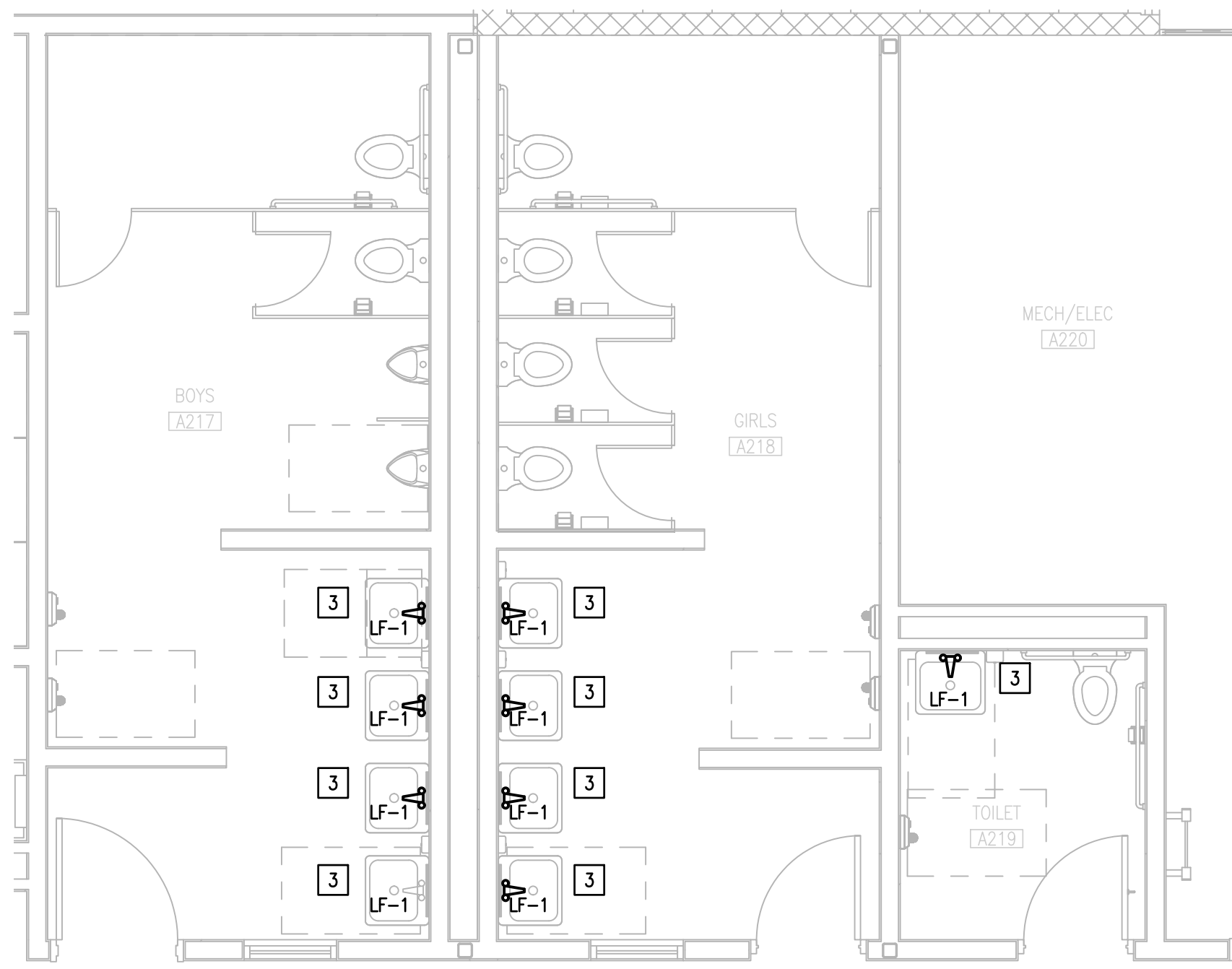
TEXAS

IDEA PUBLIC SCHOOLS  
LOWER RGV PLUMBING UPGRADES

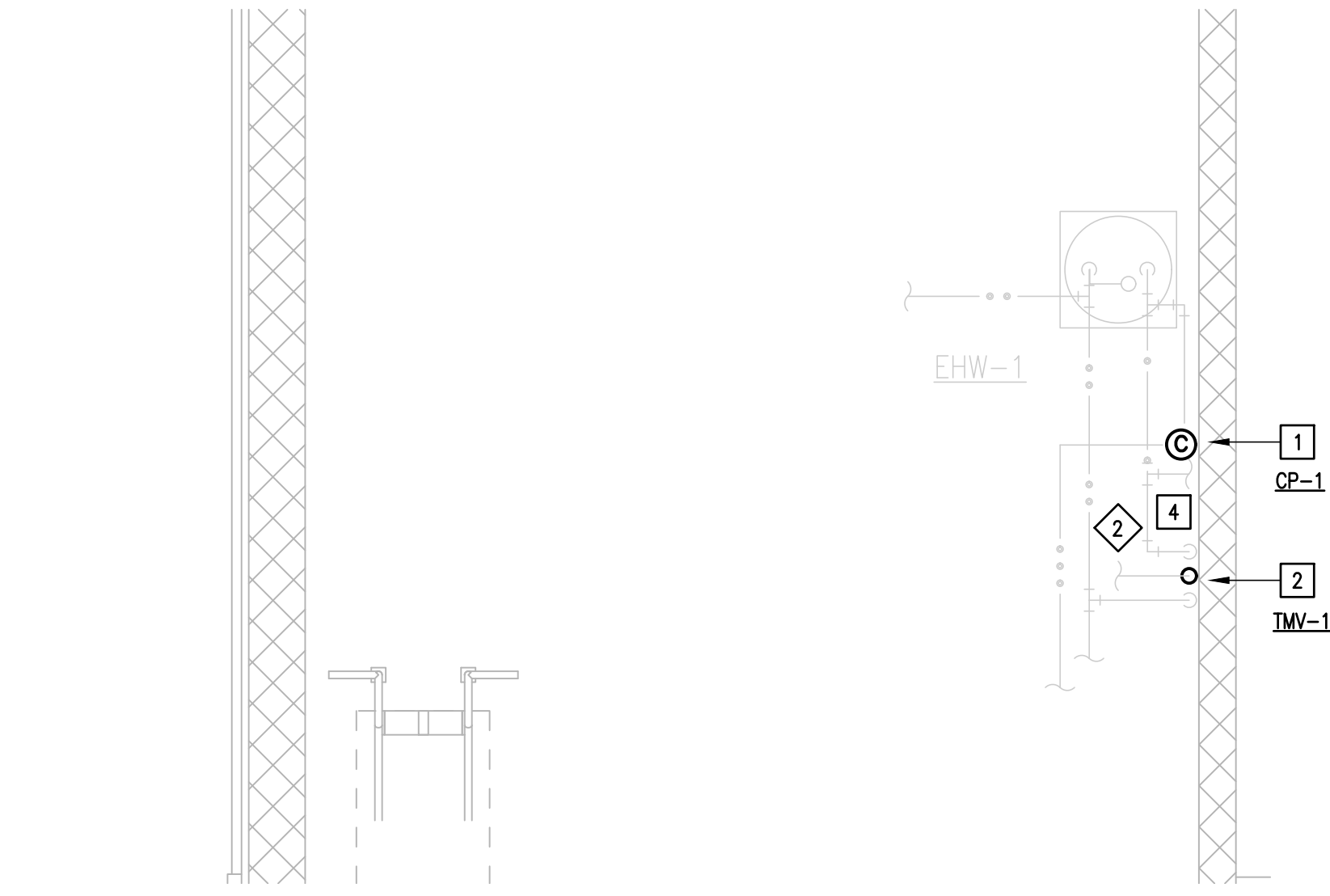
RIO GRANDE VALLEY



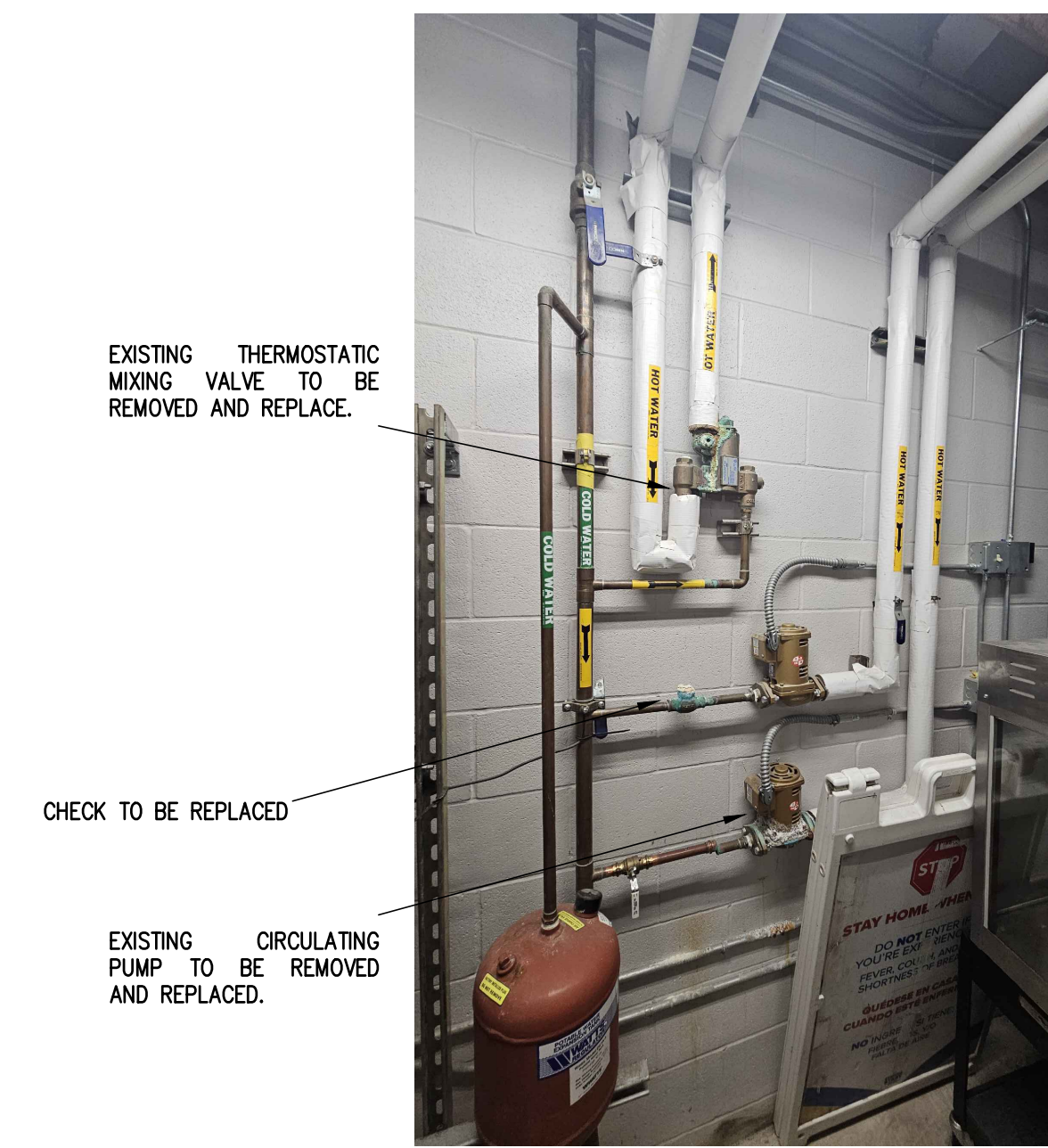
DATE: APRIL 19, 2024  
CHECKED BY: C.A.G.  
DRAWN BY: J.V.  
PROJECT NO.: 23v82  
CAD FILE:  
SHEET:  
**P7.03**



**01 ENLARGEMENT IDEA WESLACO DEMOLITION PLUMBING PLAN**  
 (MAIN BUILDING- 2ND FLOOR)  
 SCALE : 1/4" = 1'-0"  
 NORTH



**02 IDEA WESLACO ENLARGED NEW ELECTRICAL AND PLUMBING PLAN**  
 (MAIN BUILDING- 1ST FLOOR)  
 SCALE : 3/8" = 1'-0"  
 NORTH



**03 EXISTING CONDITIONS**  
 SCALE : NOT TO SCALE

**GENERAL NOTES:**

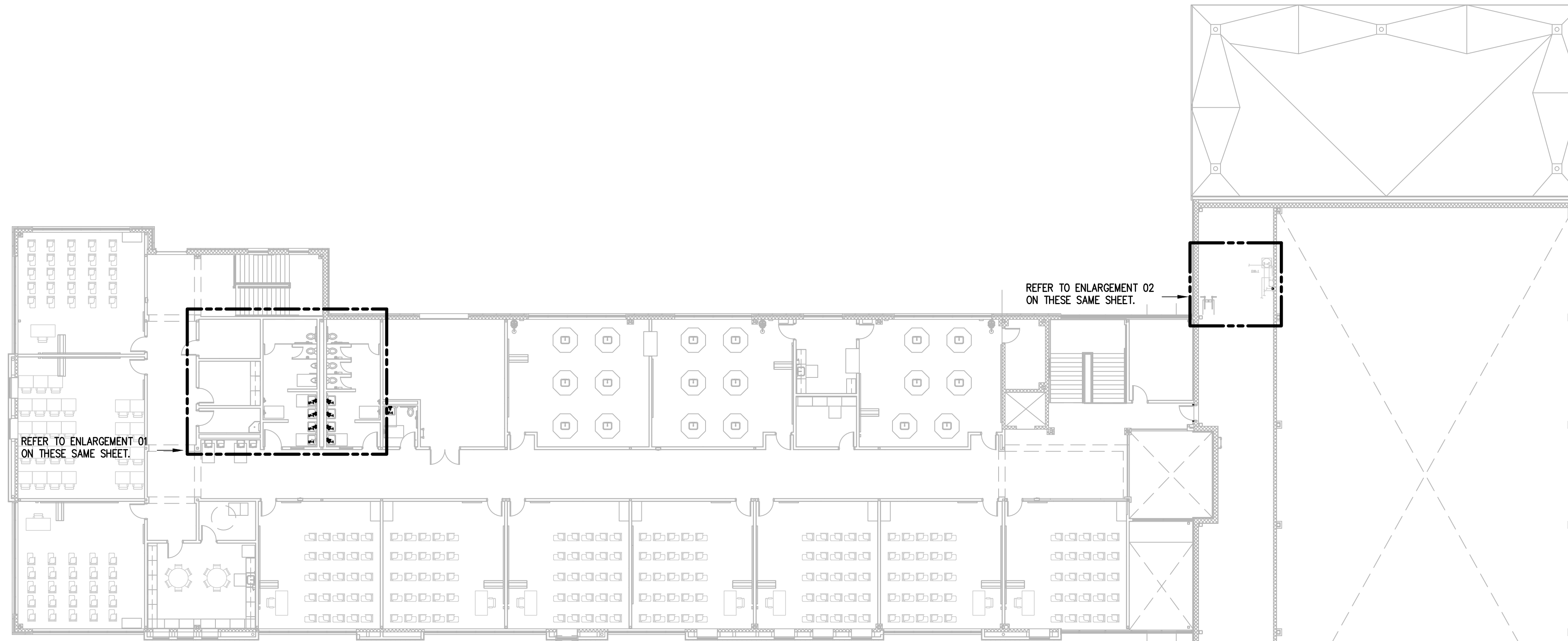
1. PLUMBING CONTRACTOR SHALL TURN ON TEMPERED WATER SYSTEM SERVING RESTROOMS AFTER REPLACING THERMOSTATIC MIXING VALVE, CIRCULATING PUMPS AND VALVES. CONTRACTOR SHALL PROVIDE INSULATION TO ALL HOT WATER AND TEMPERED WATER PIPING AS PER SPECIFICATIONS TO THE AREAS WHERE WORK IS BEING PERFORMED.

**PLUMBING KEYED NOTES:**

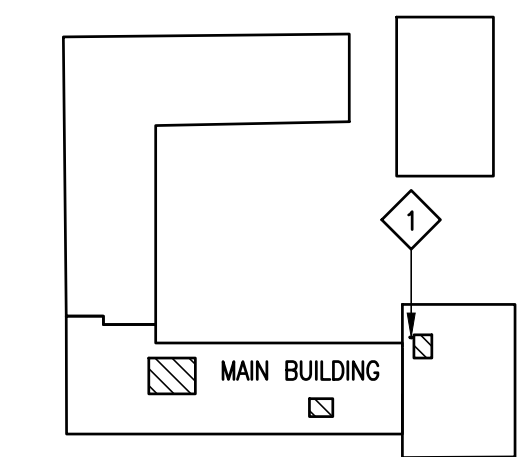
1. PROVIDE NEW CIRCULATING PUMP (CP-1), AS SCHEDULED OR AN APPROVED EQUAL. SEE ASSOCIATED DETAIL ON SHEET P7.05 ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.
2. PROVIDE THERMOSTATIC MIXING VALVE (TMV-1) NAVIGATOR BRADLEY MODEL:SS9-2025 OR APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO NEW THERMOSTATIC MIXING VALVE AND SET TEMPERATURE TO 100 F. SEE SCHEDULE ON SHEET P7.05.
3. REPLACE EXISTING FAUCET WITH NEW ONE AS SCHEDULED ON SHEET P7.05. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.
4. PROVIDE NEW CHECK 1 1/2" CHECK VALVE AS PER SPECIFICATIONS AND INSTALL AT THIS APPROXIMATE LOCATION.

**ELECTRICAL NEW KEYED NOTES:**

1. APPROXIMATE LOCATION OF EXISTING PANELBOARD AT FIRST FLOOR SERVING ELECTRIC CIRCULATING PUMP.
2. CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



**04 IDEA WESLACO NEW ELECTRICAL AND PLUMBING PLAN**  
 (MAIN BUILDING- 2ND FLOOR)  
 SCALE : 1/16" = 1'-0"  
 NORTH



**WESLACO IDEA ACADEMY KEYPLAN**







TEXAS

IDEA PUBLIC SCHOOLS  
 LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.  
 MARLINGEN, TX  
 PHONE: 956-205-2435  
 TEXAS REGISTERED  
 ENGINEERING FIRM  
 E-15998

DATE: APRIL 19, 2024  
 CHECKED BY: C.A.G.  
 DRAWN BY: J.V.  
 PROJECT NO.: 23v82  
 CAD FILE:  
 SHEET:

**PLUMBING FIXTURE SCHEDULE**

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
LF-1	#EBF-615-4-BAT-BDM-CP-0.50GPM-MLM-FCT	SINGLE HOLE, BATTERY POWER SUPPLY, 0.35 GPM, MULTILAMINAR SPRAY, INFRA RED SENSOR, POLISHED CHROME FAUCET WITH 4" TRIM PLATE.	-	-	1/2"	1/2"	-	-
TMV-1	BRADLEY S59-2025 (TMV25)	LEAD-FREE BRASS DESIGN, RELIABLE LIQUID-FILLED THERMOSTAT, INTEGRAL STRAINER CHECKSTOPS ON INLETS STANDARD MIXING VALVES. SET AT 100 FAHRENHET DEGREES.	-	-	3/4"	3/4"	-	-

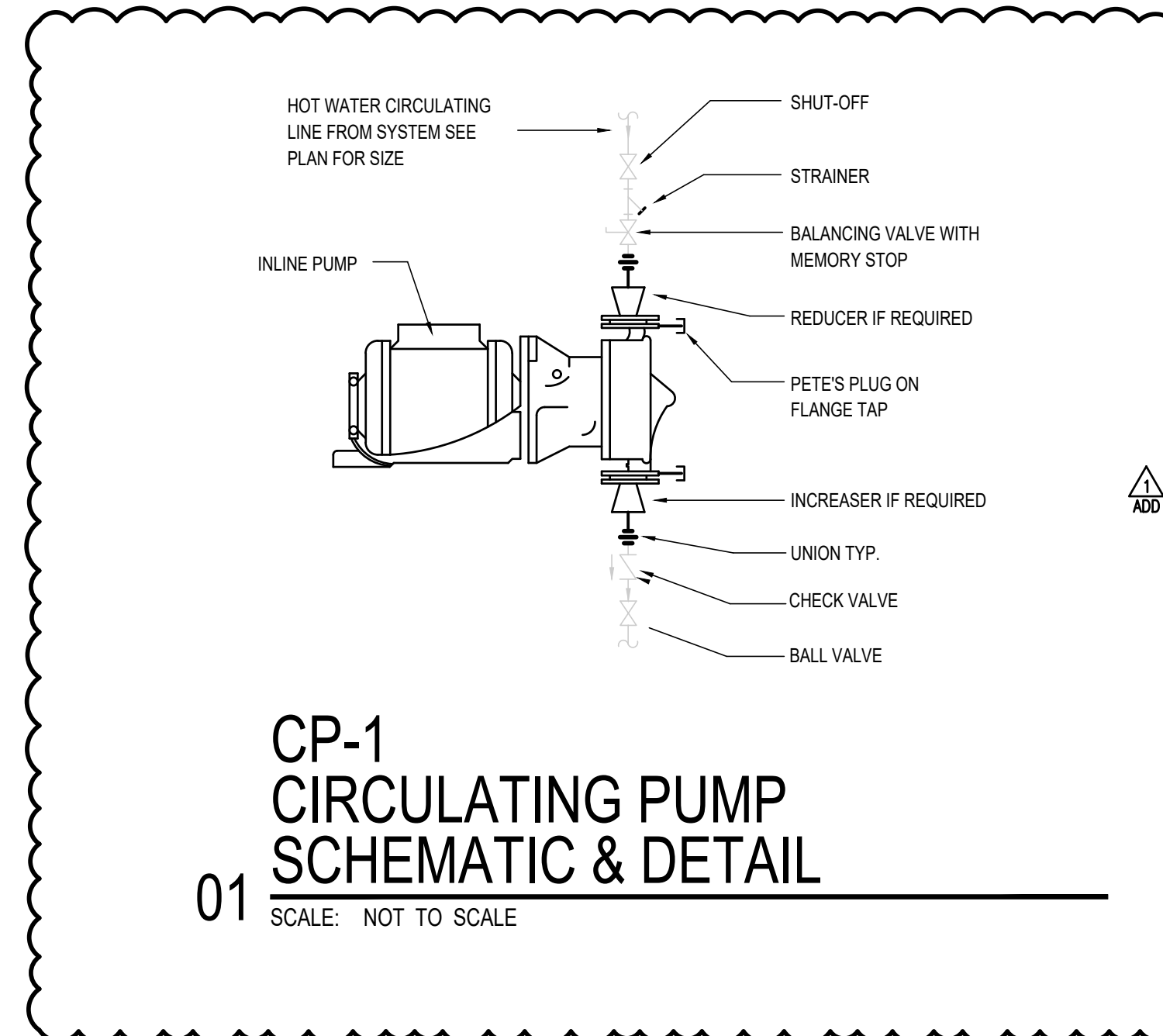
**CIRCULATING PUMP SCHEDULE**

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	TYPE	SERVES	LOCATION	GPM	HEAD FT WG	MIN. HP	RPM	SUCTION DIA. (IN.)	IMPELLER DIA. (IN.)	ELEC. V-PH-HZ	WEIGHT (LBS)	NOTES	MANUFACTURER AND MODEL
CP-1	CIRCULATING PUMP	EW-1	SEE PLAN	5	20	1/12	3300	1.5	3	115-1-60	13	ALL	BELL & GOSSETT PL-30B

NOTES:

1. PROVIDE BRONZE BOOSTER BODY.
2. NOT USED
3. REFER TO DETAIL SHEET FOR MORE INFORMATION.



02 **TMV-1**  
 SCALE: NOT TO SCALE



03 **CP-1**  
 SCALE: NOT TO SCALE



04 **LF-1**  
 SCALE: NOT TO SCALE