

July 2, 2025

**Brooks County High School and Junior High
Field House Plumbing Upgrades.**

GOMEZ MENDEZ SAENZ, INC.
1150 PAREDES LINE RD.
BROWNSVILLE, TEXAS 78526
(956) 546-0110



ADDENDUM NO. 1

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans and specifications for the *Brooks County High School and Junior High Field House Plumbing Upgrades*.

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. MEP:

1. Refer to attached MEP Supplemental Information. (8 Pages).

End of Addendum 1



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ADDENDUM NO. 1

DATE: July 02, 2025
Project: Falfurrias HS and JrH Fieldhouse Plumbing Upgrades
Project #: 25v51
To: David Monreal, GMS

A: PURPOSE OF 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

FALFURRIAS JR HIGH SCHOOL

1. Sheet DEP2.01:
 - a) Revised Electrical and Plumbing Demolition Plan. See attached sheet.
2. Sheet DEP2.02:
 - a) Revised Electrical and Plumbing Demolition and Renovation Plan. See attached sheet.
3. Sheet EP3.01:
 - a) Revised Electrical and Plumbing Renovation Plan. See attached sheet.
4. Sheet EP4.01:
 - a) Revised Electrical and Plumbing Schedules and Details. See attached sheet.



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FALFURRIAS HIGH SCHOOL

1. Sheet EP3.01:
 - a) Revised Electrical and Plumbing Renovation Plan. See attached sheet.
2. Sheet EP4.01:
 - a) Revised Electrical and Plumbing Schedules and Details. See attached sheet.

Please let us know if you have any questions,

Thank you,

Gerardo Juarez

- 1 DISCONNECT EXISTING WATER HEATER TO BE REPLACED. SEE EQUIPMENT CONNECTION SCHEDULE.
- 2 APPROXIMATE LOCATION OF EXISTING DISCONNECTS SERVING EXISTING WATER HEATERS.
- 3 DISCONNECT EXISTING CIRCULATION PUMP TO BE REPLACED.



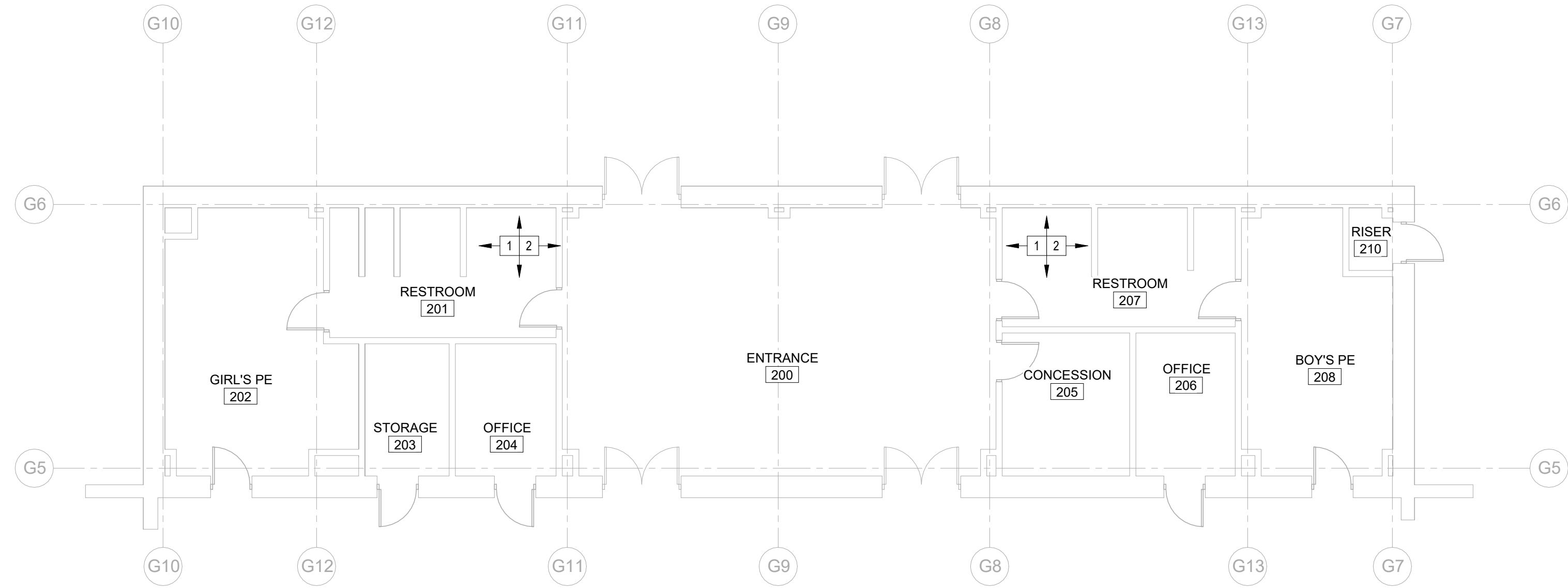
1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
3. COORDINATE DEMOLITION OF DIVISION 22 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
4. 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.
5. IT IS INTENDED THAT DEMOLITION WORK LEAVE THE ENTIRE AREA FREE OF ABOVE-GRADE ITEMS, INCLUDING PIPING, STRUCTURAL SUPPORTS MATERIALS AND MISCELLANEOUS ITEMS. ALL SUCH ITEMS ARE TO BE REMOVED UNLESS SPECIFICALLY INDICATED OTHERWISE.
6. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNERS DO NOT WANT.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR TO LOCATE EXISTING MAIN DOMESTIC COLD AND HOT WATER SHUT-OFF VALVES, COLD AND PURGE LINES BEFORE PERFORMING ANY WORK ON EXISTING PLUMBING SYSTEMS.

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER (EWH-182) AT THIS APPROXIMATE LOCATION. COORDINATE WITH DEMOLITION WORK.
- 2 DEMOLISH EXISTING EXPANSION TANK (ET-1) AT THIS APPROXIMATE LOCATION. COORDINATE WITH DEMOLITION WORK.
- 3 DISCONNECT AND DEMOLISH EXISTING THERMOSTATIC MIXING VALVE (TMV-1) AT THIS APPROXIMATE LOCATION. COORDINATE WITH DEMOLITION WORK.
- 4 DEMOLISH EXISTING HOT AND COLD WATER PIPING AS SHOWN ON PLANS. COORDINATE DEMOLITION WORK WITH GENERAL CONTRACTOR. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK.
- 5 DISCONNECT EXISTING 2" HOT WATER PIPING AT THIS APPROXIMATE LOCATION TO CONNECT NEW 2" HOT WATER PIPING. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK.
- 6 DISCONNECT AND CAP EXISTING 1" HOT COLD WATER PIPING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK.
- 7 EXISTING COLD, HOT AND HOT WATER RETURN PIPING TO REMAIN.
- 8 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING EQUIPMENT. REFER TO NEW PLUMBING PLANS FOR NEW WORK. COORDINATE WITH DEMOLITION.
- 9 DISCONNECT EXISTING 2" COLD WATER PIPING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK.
- 10 DEMOLISH EXISTING CIRCULATING PUMP (CP-1), AQUASTAT AND TIME CLOCK AT THIS APPROXIMATE LOCATION. COORDINATE WITH DEMOLITION WORK.

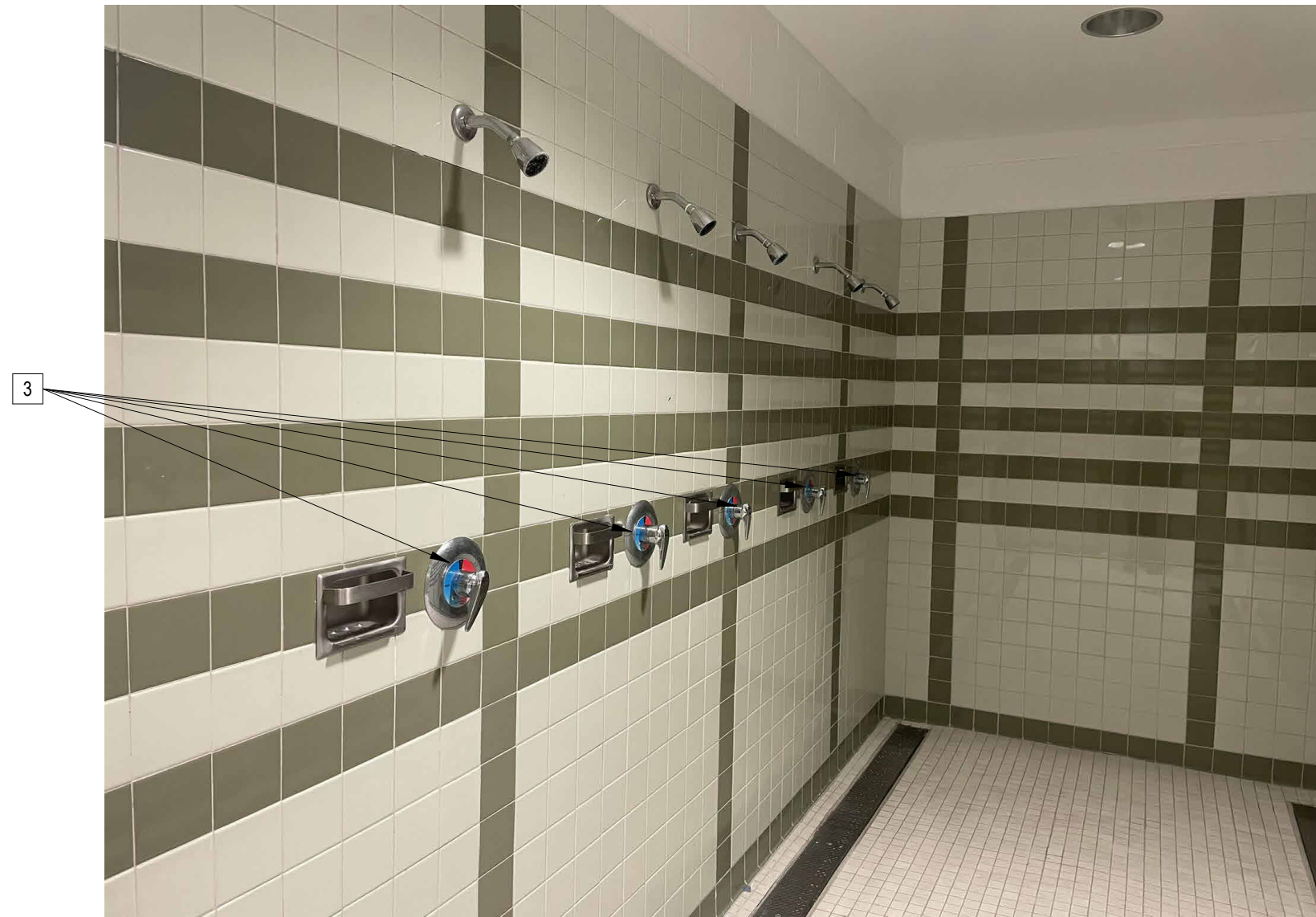
	EXISTING COLD WATER PIPING TO REMAIN
	EXISTING HOT WATER PIPING TO REMAIN
	EXISTING RETURN HOT WATER PIPING TO REMAIN
	EXISTING COLD WATER PIPING TO BE DEMOLISHED
	EXISTING HOT WATER PIPING TO BE DEMOLISHED
	PLUMBING EQUIPMENT TO BE DEMOLISHED



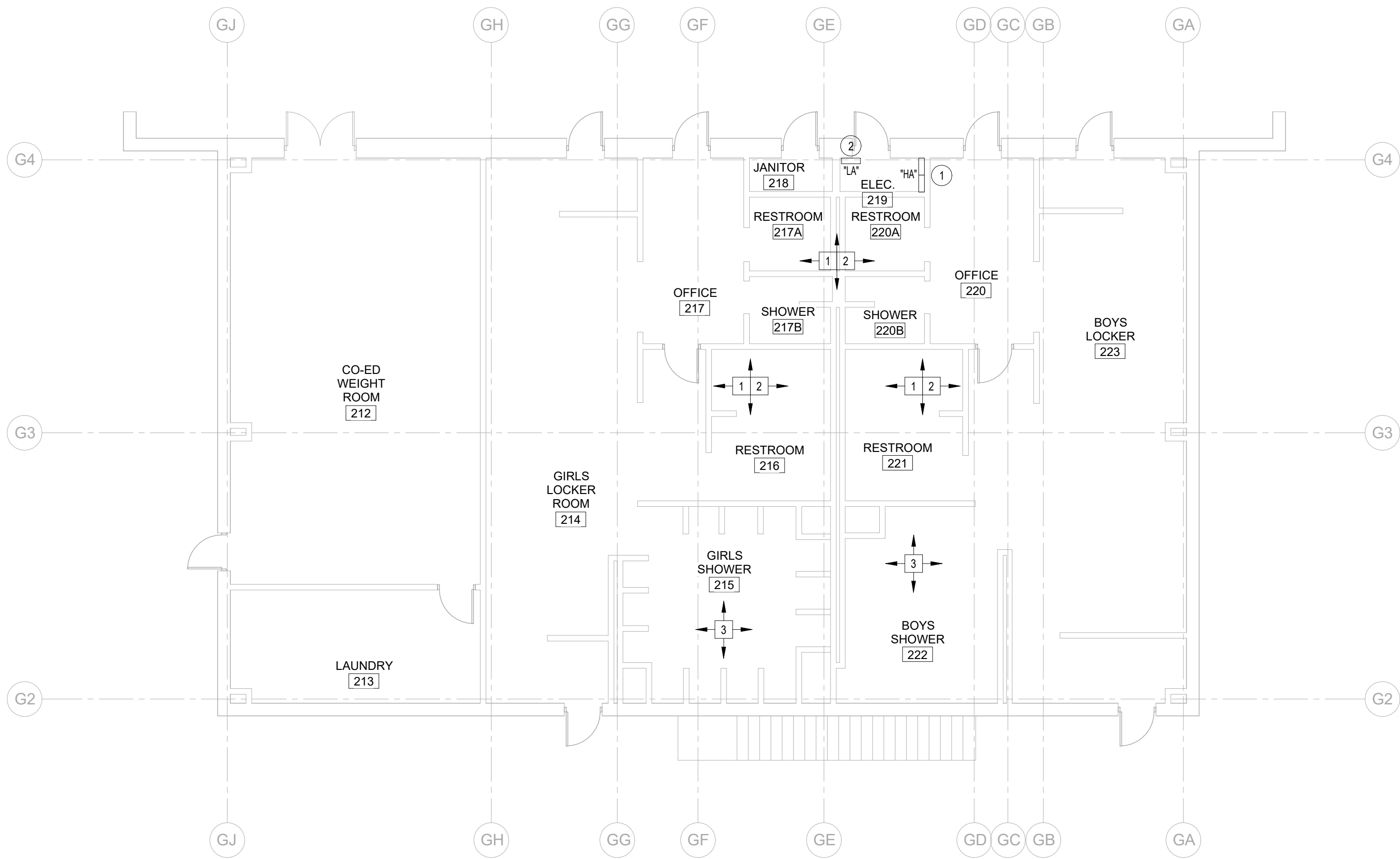
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HARLINGEN, TX
PHONE: 956-230-3435
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01 GYM BUILDING - NORTH
PLUMBING DEMOLITION AND RENOVATION PLAN
SCALE: 1/8" = 1'-0"



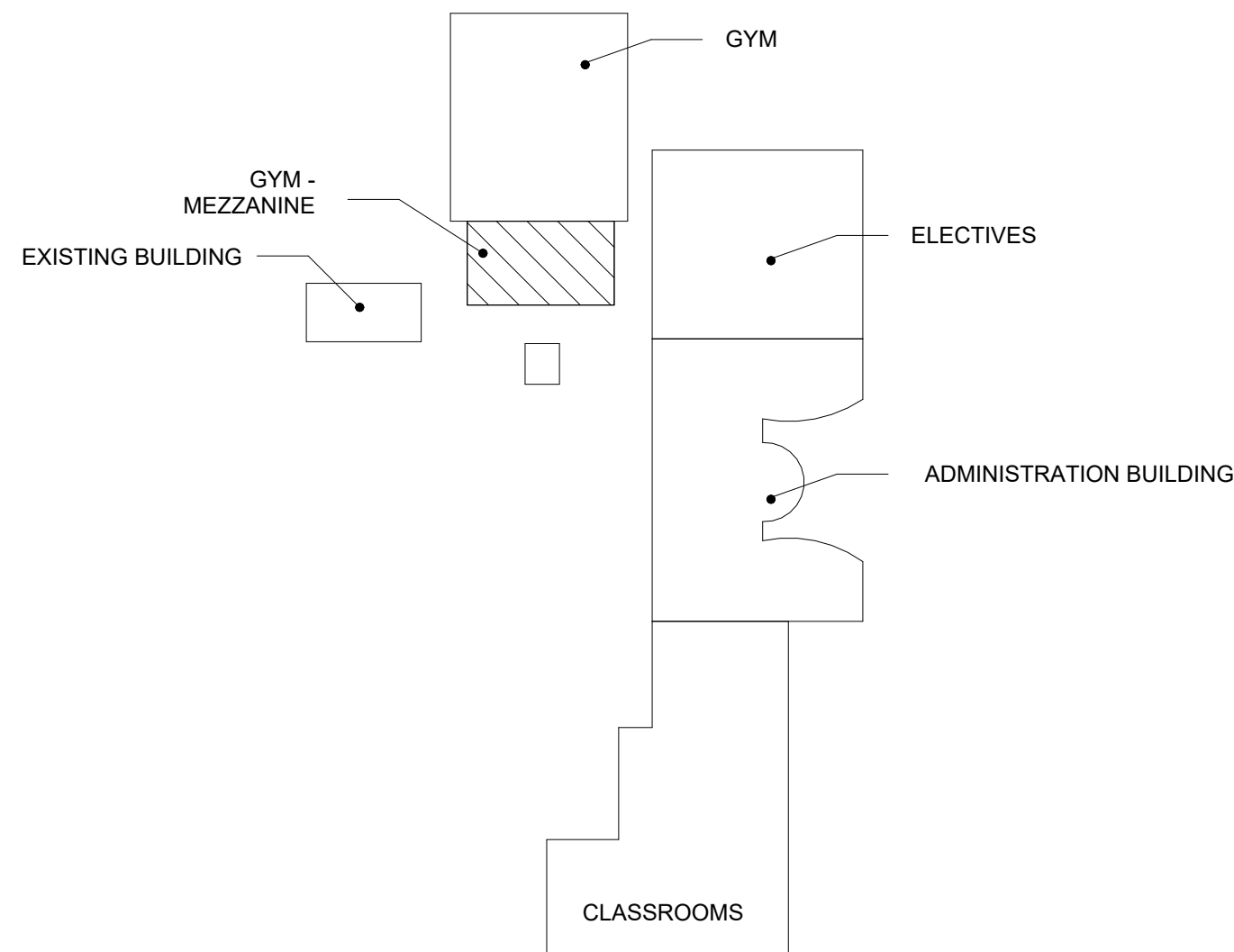
02 EXISTING CONDITIONS
SCALE: NOT TO SCALE



03 GYM BUILDING - SOUTH
PLUMBING DEMOLITION AND RENOVATION PLAN
SCALE: 1/8" = 1'-0"



04 EXISTING CONDITIONS
SCALE: NOT TO SCALE



FALFURRIAS JrHS
KEYPLAN



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F-15998

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. 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.
3. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
4. 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.
5. IT IS INTENDED THAT DEMOLITION WORK LEAVE THE ENTIRE AREA FREE OF ABOVE-GRADE ITEMS, INCLUDING PIPING, STRUCTURAL SUPPORTS MATERIALS AND MISCELLANEOUS ITEMS. ALL SUCH ITEMS ARE TO BE REMOVED UNLESS SPECIFICALLY INDICATED OTHERWISE.
6. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. 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 TO LOCATE EXISTING MAIN DOMESTIC COLD AND HOT WATER SHUT-OFF VALVES, CLOSE AND PURGE LINES BEFORE PERFORMING ANY WORK ON EXISTING PLUMBING SYSTEMS.

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FULLY OPERATIONAL SYSTEM FOR NEW PLUMBING FIXTURES, INCLUDING DOMESTIC WATER SUPPLY LINES.
2. CONTRACTOR SHALL ENSURE THAT ANY EXISTING PLUMBING FIXTURES DESIGNATED TO REMAIN ARE FULLY FUNCTIONAL AND PROPERLY CONNECTED TO DOMESTIC COLD AND HOT WATER SYSTEMS.

PLUMBING DEMOLITION AND RENOVATION KEYED NOTES:

1. REMOVE AND REPLACE EXISTING DAMAGED AND RUSTED LAVATORY MIXING VALVES. PROVIDE AND INSTALL NEW MIXING VALVE EQUAL TO LEONARDO MODEL#270-LF-BRKT OR APPROVED EQUAL. INCLUDE ALL NECESSARY FITTINGS, SUPPORTS, AND ACCESSORIES TO ENSURE PROPER INSTALLATION AND OPERATION. ADJUST TEMPERATURE AT NO MORE THAN 105 °F.
2. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. REFER TO NEW PLUMBING PLANS FOR NEW WORK. COORDINATE WITH DEMOLITION.
3. ADJUST EXISTING SHOWER THERMOSTATIC MIXING VALVES AT NO MORE THAN 105 °F.

ELECTRICAL DEMOLITION KEYED NOTES:

1. APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING EXISTING WATER HEATERS AND NEW BOOSTER PUMP.
2. APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING NEW WATER SOFTENER SYSTEM.

GENERAL NOTES:

1. NOT ALL ACCESSORIES REQUIRED FOR INSTALLATION ARE SHOWN ON DRAWINGS FOR CLARITY. SEE ASSOCIATED DETAILS ON THE DETAILS SHEET FOR INSTALLATION AND SPECIFICATIONS.
2. ALL POINTS OF CONNECTION OF EQUIPMENT SHOWN ON PLANS ARE SCHEMATIC IN NATURE. ISOMETRIC VIEWS PROVIDE A GENERAL IDEA OF WHERE THESE POINTS OF CONNECTION COULD BE. CONTRACTOR SHALL VERIFY EXACT LOCATION OF POINTS OF CONNECTION WITH EQUIPMENT OUTSOURCES DURING SUBMITTAL PROCESS AND INSTALLATION ACTIVITIES.
3. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FULL OPERATIONAL SYSTEM FOR NEW PLUMBING EQUIPMENT, INCLUDING SANITARY SEWER AND DOMESTIC WATER SUPPLY LINES.
4. CONTRACTOR SHALL ENSURE THAT ANY EXISTING PLUMBING FIXTURES DESIGNATED TO REMAIN ARE FULLY FUNCTIONAL AND PROPERLY CONNECTED DOMESTIC COLD AND HOT WATER SYSTEMS.

PLUMBING KEYED NOTES:

- | | |
|----|---|
| 1 | PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE 12X12 ACCESS PANEL. WHEN INSTALLED IN AN INACCESSIBLE AREA ACCESS PANEL EQUAL TO ALCIDOR MODEL UF8000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL) |
| 2 | PROVIDE NEW 2" HOT WATER PIPE AND CONNECT TO EXISTING 2" HOT WATER LINE SERVING THE SHOWERS AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK. |
| 3 | PROVIDE NEW FLOOR MOUNTED ELECTRIC WATER HEATER (EWH-182) AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAIL SHEET (TYPICAL). |
| 4 | PROVIDE NEW EXPANSION TANK (ET-1) AS SCHEDULED. EQUAL TO AMTROL ST-30VC-00 OR APPROVED EQUAL. |
| 5 | PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL) |
| 6 | PROVIDE NEW WATER SOFTENER SYSTEM (WS-1) AS SCHEDULED. |
| 7 | BRONZE ISOLATION VALVE NORMALLY CLOSED. SUPPLIED AS BY-PASS FOR WATER SOFTENER EQUIPMENT. |
| 8 | PROVIDE BRONZE CHECK VALVE AS PER SPECIFICATIONS AT THIS LOCATION. |
| 9 | PROVIDE HOSE BIBBS AS SCHEDULED. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR INSTALLATION (TYPICAL) |
| 10 | REPLACE ALL EXISTING BRONZE ISOLATION VALVES, PIPING, AND ACCESSORIES SHOWING SIGNS OF DAMAGE OR CORROSION WITH NEW COMPONENTS OF EQUAL SIZE AND TYPE. ENSURE PROPER INSTALLATION AND FUNCTIONALITY. |
| 11 | PROVIDE BOOSTER PUMP (BP-1) AS SCHEDULED. REFER TO DETAIL SHEET FOR THE ASSOCIATED DETAIL. |
| 12 | PROVIDE BLADED TYPE TANK AND CONNECT AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO DETAIL SHEET AND SCHEDULES FOR EXACT MODEL AND SIZE. |
| 13 | PROVIDE AND INSTALL ALL REQUIRED FITTINGS TO CONNECT ALL ACCESSORIES SHOWN ON PLANS. REFER TO DETAIL ON DETAIL SHEET AND SPECIFICATIONS. |
| 14 | PRIOR TO ORDERING BOOSTER PUMP, PRESSURE TEST THE MAIN DOMESTIC WATER SERVICE AT BUILDING. CONTRACTOR SHALL PROVIDE ALL THE NECESSARY GAUGES, VALVES AND FITTINGS, WHETHER TEMPORARY OR PERMANENT, TO MONITOR AND DOCUMENT THE WATER PRESSURE (PSI) EVERY HOUR FOR A PERIOD OF 24 HOURS. SUCH DATA WILL BE USED BY A/E TEAM AND OWNER TO CONFIRM BOOSTER PUMP SIZING. |
| 15 | ADJUST AS NECESSARY ALL PIPING TO PROPER INSTALL THE NEW EQUIPMENT. |
| 16 | PROVIDE NEW 2" COLD WATER PIPE AND CONNECT INTO EXISTING 2" COLD WATER LINE SERVING THE WATER HEATERS AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR COMMENCING WORK. |
| 17 | PROVIDE NEW CIRCULATING PUMP (CP-1) AS SCHEDULED. |



PLUMBING FIXTURE SCHEDULE

Project: Falfurrias JrH High School

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
HB-1	ZURN #195 HOSE BIB	EXPOSED TYPE, MILD CLIMATE, ANTI-CONTAMINATION WALL FAUCET WITH 1/2" MALE HOSE CONNECTION AND ANTI-SIPHON VACUUM BREAKER. THE EXTERIOR FINISH IS TO BE BRASS.	-	-	3/4"	-	1	
WS-1	WATER SOFTENER SYSTEM CULLIGAN HET-120	WATER SOFTENER SYSTEM WITH HE 1.5" TWIN SOFTENER 120, BRINE TANK WITH 24"X50" TANK, 1.5" BYPASS VALVE. ALL MODEL NUMBERS ARE OR APPROVED EQUAL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. CONTACT CULLIGAN WATER RGV AT 956-399-1785.	-	-	1 1/2"	-	1	

NOTES:

- ALL THE PLUMBING FIXTURES ARE "OR AN APPROVED EQUAL"

ELECTRIC WATER HEATER SCHEDULE

Project: Falfurrias JrH High School

MARK	LOCATION	CAPACITY (GAL.)	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 80°F RISE	ELECTRICAL V / PH / HZ	NOTES	MANUFACTURER & MODEL NUMBER
EW-1	MECH. MEZZ	120	36	6	186	480/3/60	ALL	AO SMITH DVE-120
EW-2	MECH. MEZZ	120	36	6	186	480/3/60	ALL	AO SMITH DVE-120

NOTES:

- MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL".
- PROVIDE EXPANSION TANK AMTROL ST-30VC-DD OR EQUAL.
- PROVIDE IMMERSION TYPE THERMOSTAT.
- REFER TO DETAIL SHEET FOR MORE INFORMATION.
- SET TEMPERATURE TO 110° FAHRENHET

BOOSTER PUMP SCHEDULE

Project: Falfurrias JrH High School

MARK	TYPE	LOCATION	TOTAL GPM (Per Pump)	HEAD FT WG	MOTOR HP (QTY)	MOTOR RPM	MIN. PUMP EFFICIENCY	ELECTRICAL V-PH-HZ	MANUFACTURER & MODEL	NOTES
BP-1	DUPLEX	MEZZANINE 300	33	80.7	4 HP (2)	3600	62%	480/3/60	BELL & GOSSETT HVX2D2L-10SVX4G1AXX 0-BG	ALL

NOTES:

- PROVIDE TEFC, PREMIUM EFFICIENCY, NON-OVERLOADING MOTORS.
- THE DOMESTIC BOOSTER SYSTEM SHALL BE NSF-61 APPROVED
- THE SYSTEM WILL BE SUPPLIED WITH SINGLE POINT POWER CONNECTION POINT
- DIV. 26 TO PROVIDE SAFETY DISCONNECT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE BLADDER TANK FXA-35 OR APPROVED EQUAL
- DUPLEX BOOSTER SYSTEM, ONE PUMP RUNNING AND ONE PUMP AS A STAND-BY

CIRCULATING PUMP SCHEDULE

Project: Falfurrias JrH High School

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	MECH. MEZZ. 300	5	20	1/12	3300	3/4	3	120-1-60	13	ALL	BELL & GOSSETT PL-30B

NOTES:

- PROVIDE BRONZE BOOSTER BODY.
- PUMPS SHALL BE OPERATED AND CONTROLLED THRU TIME CLOCK AND THRU AQUASTAT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- REFER TO DETAIL SHEET FOR MORE INFORMATION.

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	NEW HP	NEW MCA	NEW MOCP	EXISTING MOCP	VOLTAGE	NEW DISCONNECT	EXISTING DISCONNECT	EXISTING BRANCH CIRCUIT	75° COPPER NEW BRANCH CIRCUIT	POWER SOURCE
EW-1	36 KW	43.3	1) 60	60	480V/3PHASE	RETAIN EXISTING	60A, 3PNF, 600V, NEMA 1	REMOVE	1" - 3/4" - BG	HA
EW-2	36 KW	43.3	1) 60	60	480V/3PHASE	RETAIN EXISTING	60A, 3PNF, 600V, NEMA 1	REMOVE	1" - 3/4" - BG	HA
BP-1	2 X 4 HP	7.6	2) 20	-	480V/3PHASE	30A, 3PNF, 600V, NEMA 1	-	-	1/2" - 3/4" - 12G	HA
WATER SOFTNER	-	2.7	2) 20	20	480V/3PHASE	RETAIN EXISTING	30A, 3PNF, 600V, NEMA 1	1/2"-3/4"2 & #12G	RETAIN EXISTING	LA

GENERAL NOTES:

- LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL BELOW DUCTWORK OR PLUMBING LINES.
- IF EXISTING HVAC EQUIPMENT CONNECTIONS ARE NOTED TO BE REUSED AND DO NOT REACH NEW HVAC EQUIPMENT CONNECTION POINTS, PROVIDE A NEW JUNCTION BOX ABOVE CEILING AND SPLICE FEEDER. CONTRACTOR SHALL PROVIDE THE ADDITIONAL WIRING AND RACEWAYS AS NOTED ON DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS.
- PROVIDE NEW FLEXIBLE RACEWAY FROM DISCONNECT TO NEW EQUIPMENT.

NOTES:

- RETAIN AND REUSE EXISTING CIRCUIT BREAKER
- REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE A NEW UL LISTED CIRCUIT BREAKER FROM EXISTING PANELBOARD MANUFACTURER.

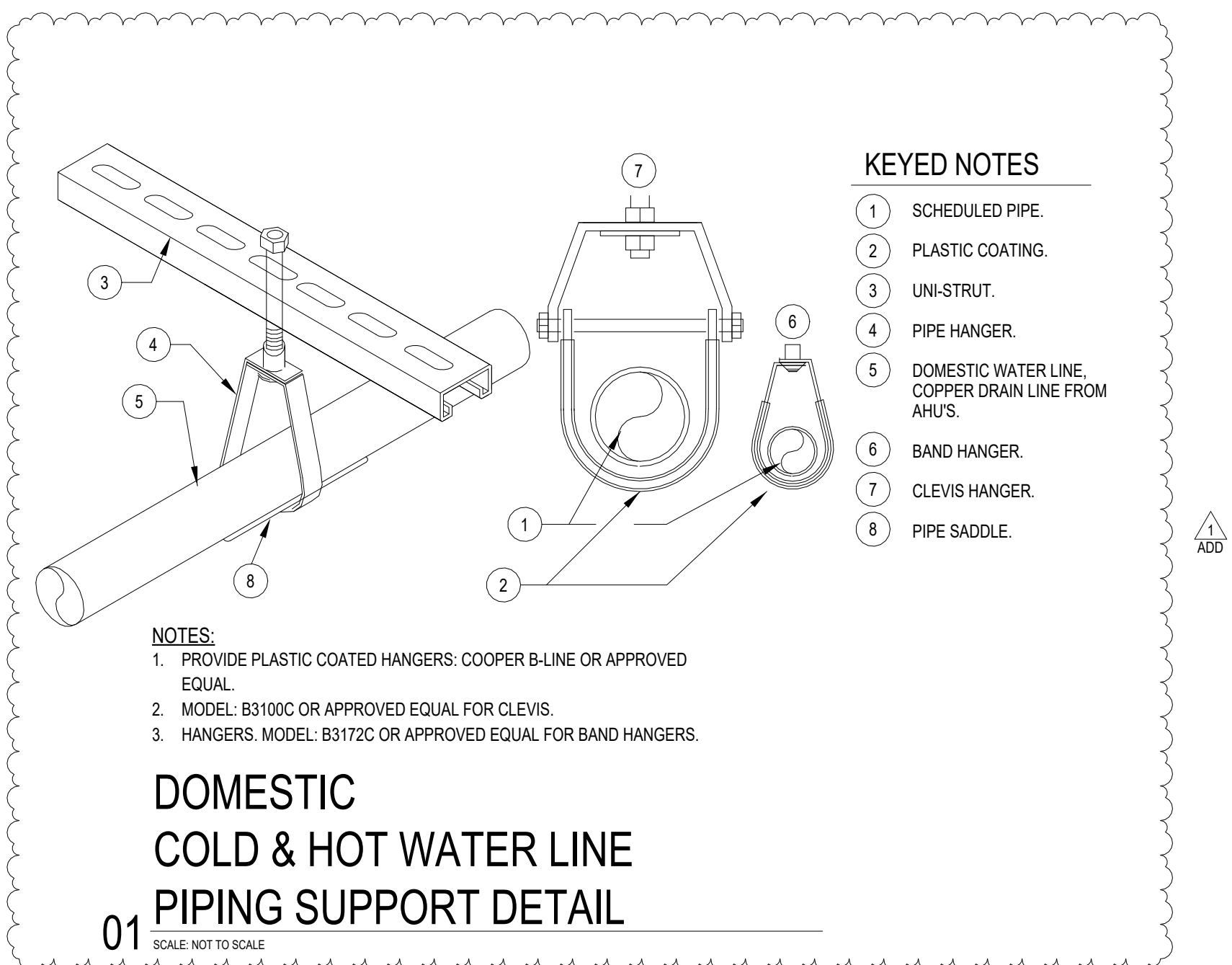
EXISTING PANELBOARD DATA:

"HA" - 400A, 480/277V, 3Ø, 4W, 1ØKAIC, GE A-SERIES II AX1
"LA" - 225A, 208/120V, 3Ø, 4W, 1ØKAIC, GE PANELBOARD

PLUMBING SYMBOLS LEGEND

	COLD WATER SUPPLY (CW)	A.F.F.	ABOVE FINISH FLOOR
	HOT WATER SUPPLY (HW)	GT	GREASE TRAP
	GAS LINE (GAS)	S.S.W.	SANITARY SEWER
	SOIL & SANITARY SEWER LINE (SSW)	WC	WATER CLOSET
	VENT LINE (VENT)	UR	URINAL
	PRIMARY STORM SEWER LINE (PSS)	P.O.C.	POINT OF CONNECTION
	SECONDARY STORM SEWER LINE (SSS)	L	LAVATORY
	RE-CIRCULATING HOT WATER LINES (RHW)	SK	SINK
	FIRE RISER LINE (FR)	EDF	ELECTRIC DRINKING FOUNTAIN
	FLOOR CLEANOUT	MSB	MOP SERVICE BASIN
	FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	SHR	SHOWER
	FLOOR SINK (FS) WITH DEEP SEAL TRAP	TP	TRAP PRIMER
	HUB DRAIN WITH DEEP SEAL TRAP	EW	ELECTRIC WATER HEATER
	YARD CLEANOUT - 2 WAY	VTR	VENT THRU ROOF
	WALL HYDRANT (WH)	CO	CLEANOUT
	*WATER HAMMER ARRESTOR (WHA)	EESH	EMERGENCY EYE/SHOWER
	WYE FITTING		QUAZITE BOX WITH GATE VALVE
	45° ELBOW FITTING		SECTION VIEW CUT
	90° ELBOW FITTING	GW	GAS WATER HEATER
	GAS METER	PSS	PRIMARY STORM SEWER
	BALL VALVE (BV)	SSD	SECONDARY STORM SEWER

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.



GENERAL NOTES:

(APPLY TO ALL PLUMBING SHEETS)

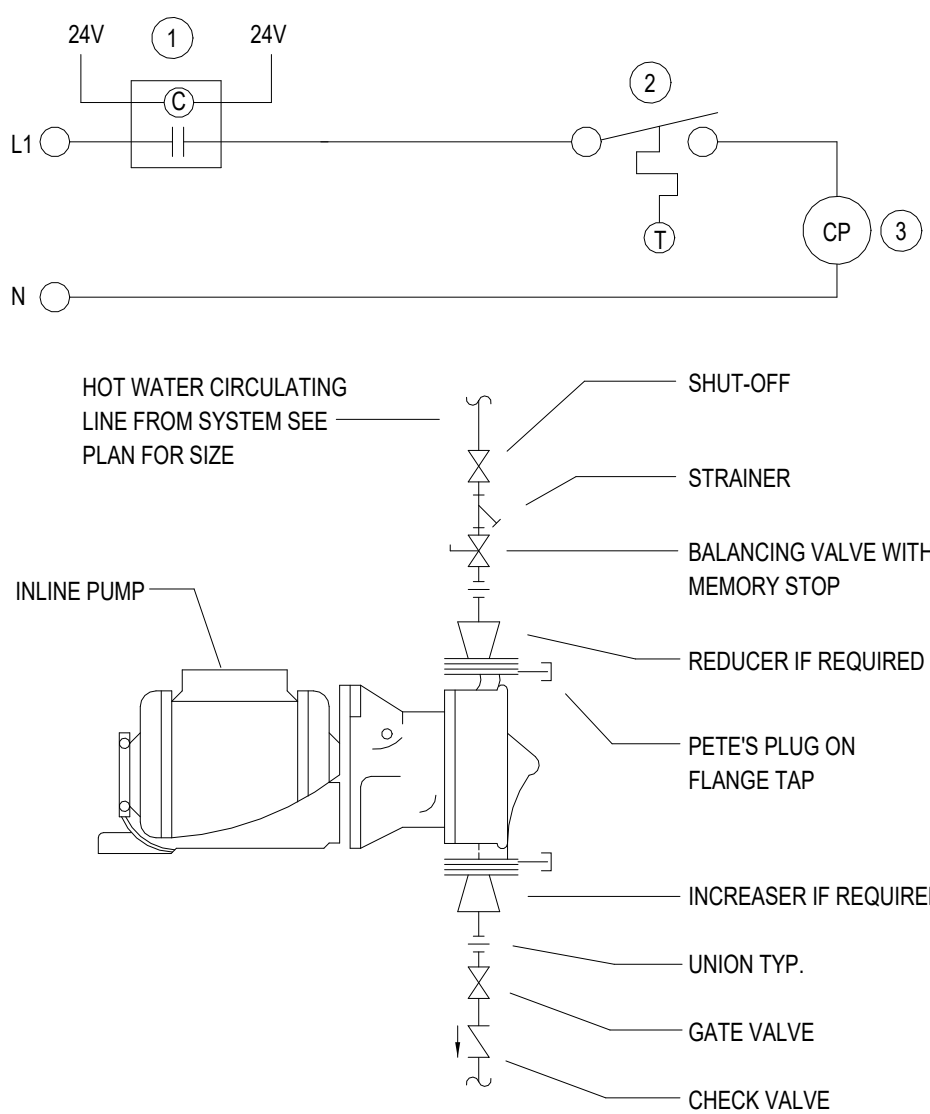
- ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
- CONTRACTOR SHALL NOT CUT ANY EXTERIOR WALL STUD.
- ISOMETRIC DIAGRAMS ARE SHOWN FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS OR TO INDICATE FINAL SITE INSTALLATION.



EW-1&2

02 ELECTRIC WATER HEATER

SCALE: NOT TO SCALE



CP-1

CIRCULATING PUMP WIRING SCHEMATIC & DETAIL

04 SCALE: NOT TO SCALE



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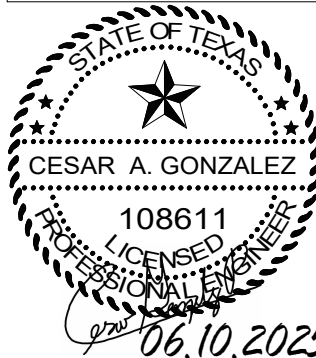
No.	REVISIONS	BY
1	07/02/2025	ETHOS



GMS ARCHITECTS

1150 Paredes Line
Rd. Brownsville TX
78526
(956) 546-0110
fax (956) 546-0196

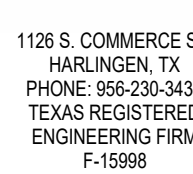
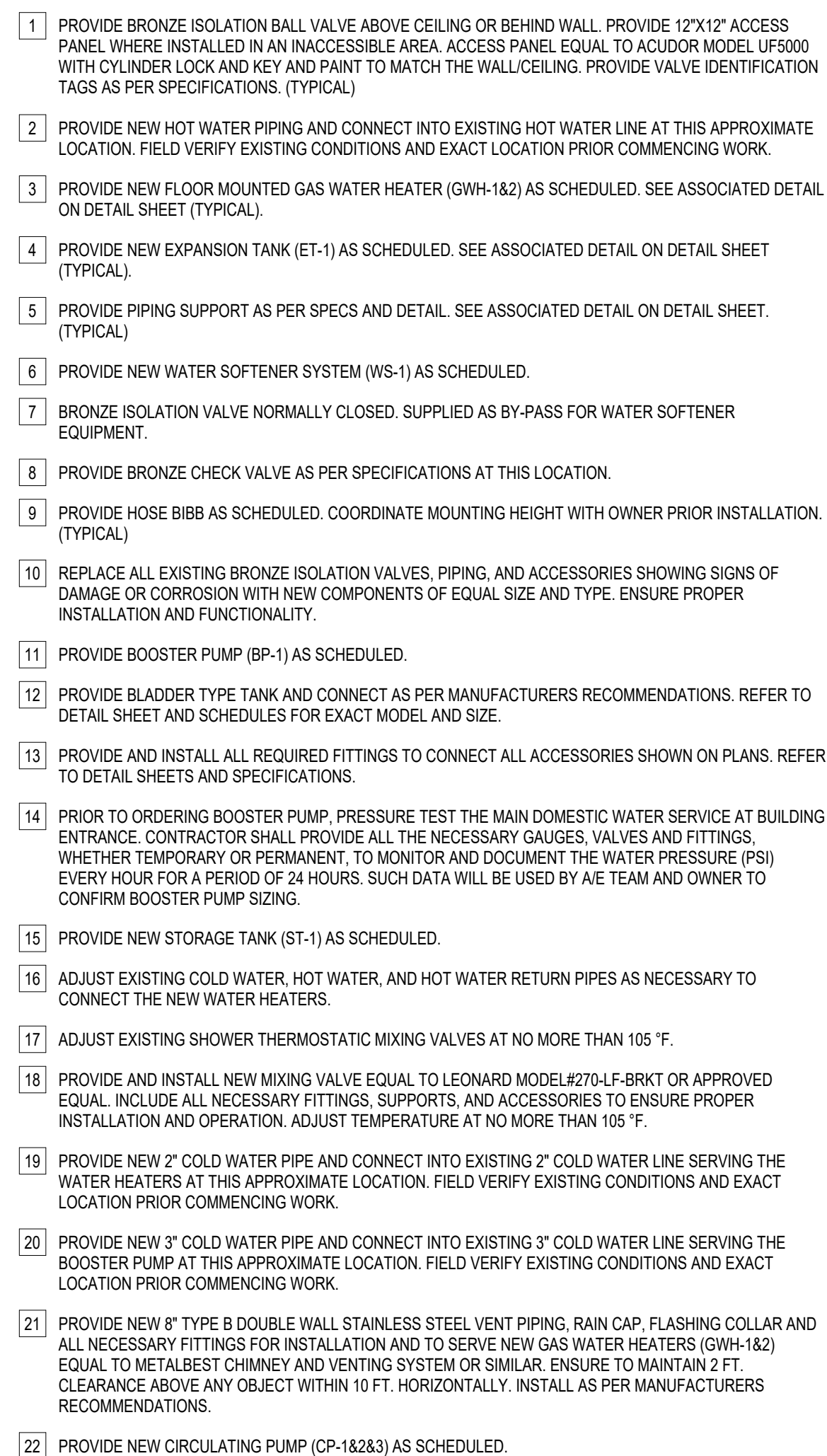
FALFURRIAS HS AND JRH FIEDLHOUSE PLUMBING UPGRADES
FALFURRIAS JR. HIGH SCHOOL, FALFURRIAS, TX.



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Architects-Planners
Interior Designers

Date: 05/10/2025
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: J.V.
Job No: 26551
Sheet:

EP4.01



PLUMBING FIXTURE SCHEDULE

Project: Falfurrias High School

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
HB-1	ZURN #135 HOSE BIBB	EXPOSED TYPE, MILD CLIMATE, ANTI-CONTAMINATION WALL FAUCET WITH 1/2" MALE HOSE CONNECTION AND ANTI-SIPHON VACUUM BREAKER. THE EXTERIOR FINISH IS TO BE BRASS.	-	-	3/4"	-	1	
WS-1	WATER SOFTENER SYSTEM CULLIGAN HET-150	WATER SOFTENER SYSTEM WITH HE 1.5" TWIN SOFTENER 150, BRINE TANK WITH 24"X50" TANK, 1.5" BYPASS VALVE. ALL MODEL NUMBERS ARE "OR APPROVED EQUAL". REFER TO SPECIFICATIONS FOR MORE INFORMATION. CONTACT CULLIGAN WATER RGV AT 956-399-1785.	-	-	1 1/2"	-	1	
ST-1	STORAGE TANK A.O. SMITH TJV-120A	A O. SMITH TJV-120A, 119 GALLONS HIGH DENSITY FOAM INSULATION SAVES ENERGY. HELPS REDUCE STANDBY HEAT LOSS 160 PSI ASME STANDARD WORKING PRESSURE.	-	-	2"	2"	1	

NOTES:

- ALL THE PLUMBING FIXTURES ARE "OR AN APPROVED EQUAL"

GAS WATER HEATER SCHEDULE

Project: Falfurrias High School

MARK	LOCATION	CAPACITY (GAL.)	FLUE PIPE SIZE	RECOVERY IN GPH AT 80°F RISE	GAS INPUT BTU/HR	GAS VALVE PIPING	NOTES	MANUFACTURER & MODEL NUMBER
GWH-1	BOILER ROOM L115	100	8"	294	199,900	1"	ALL	AO SMITH BTH-199 A
GWH-2	BOILER ROOM L115	100	8"	294	199,900	1"	ALL	AO SMITH BTH-199 A

NOTES:

- MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL".
- INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE SEAMLESS GLASS-LINED STEEL TANK CONSTRUCTION, WITH GLASS LINING APPLIED TO ALL WATER-SIDE SURFACES AFTER THE TANK HAS BEEN ASSEMBLED AND WELDED.
- PROVIDE WITH SPIRAL-SHAPED HEAT EXCHANGER PLACED ENTIRELY INSIDE THE TANK, WHICH SHALL BE GLASS-LINED.
- PROVIDE FOAM INSULATION AND AND ASME-RATED TEMPERATURE AND PRESSURE RELIEF VALVE.
- PROVIDE WITH DOWN-FIRED POWER BURNER.
- WATER HEATER SHALL BE APPROVED FOR 0" CLEARANCE TO COMBUSTIBLES.

BOOSTER PUMP SCHEDULE

Project: Falfurrias High School

MARK	TYPE	LOCATION	TOTAL GPM (Per Pump)	HEAD FT WG	MOTOR HP (QTY)	MOTOR RPM	MIN. PUMP EFFICIENCY	ELECTRICAL V-PH-HZ	MANUFACTURER & MODEL	NOTES
BP-1	DUPLEX	BOILER ROOM L115	100	113	7.5 HP (2)	3600	63%	480/3/60	BELL & GOSSETT HVX2L3L-15SVX3GH ALX0-BG	ALL

NOTES:

- PROVIDE TEFC, PREMIUM EFFICIENCY, NON-OVERLOADING MOTORS.
- THE DOMESTIC BOOSTER SYSTEM SHALL BE NSF-61 APPROVED
- THE SYSTEM WILL BE SUPPLIED WITH SINGLE POINT POWER CONNECTION POINT
- DIV. 26 TO PROVIDE SAFETY DISCONNECT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE BLADDER TANK FXA-85 OR APPROVED EQUAL
- DUPLEX BOOSTER SYSTEM, ONE PUMP RUNNING AND ONE PUMP AS A STAND-BY

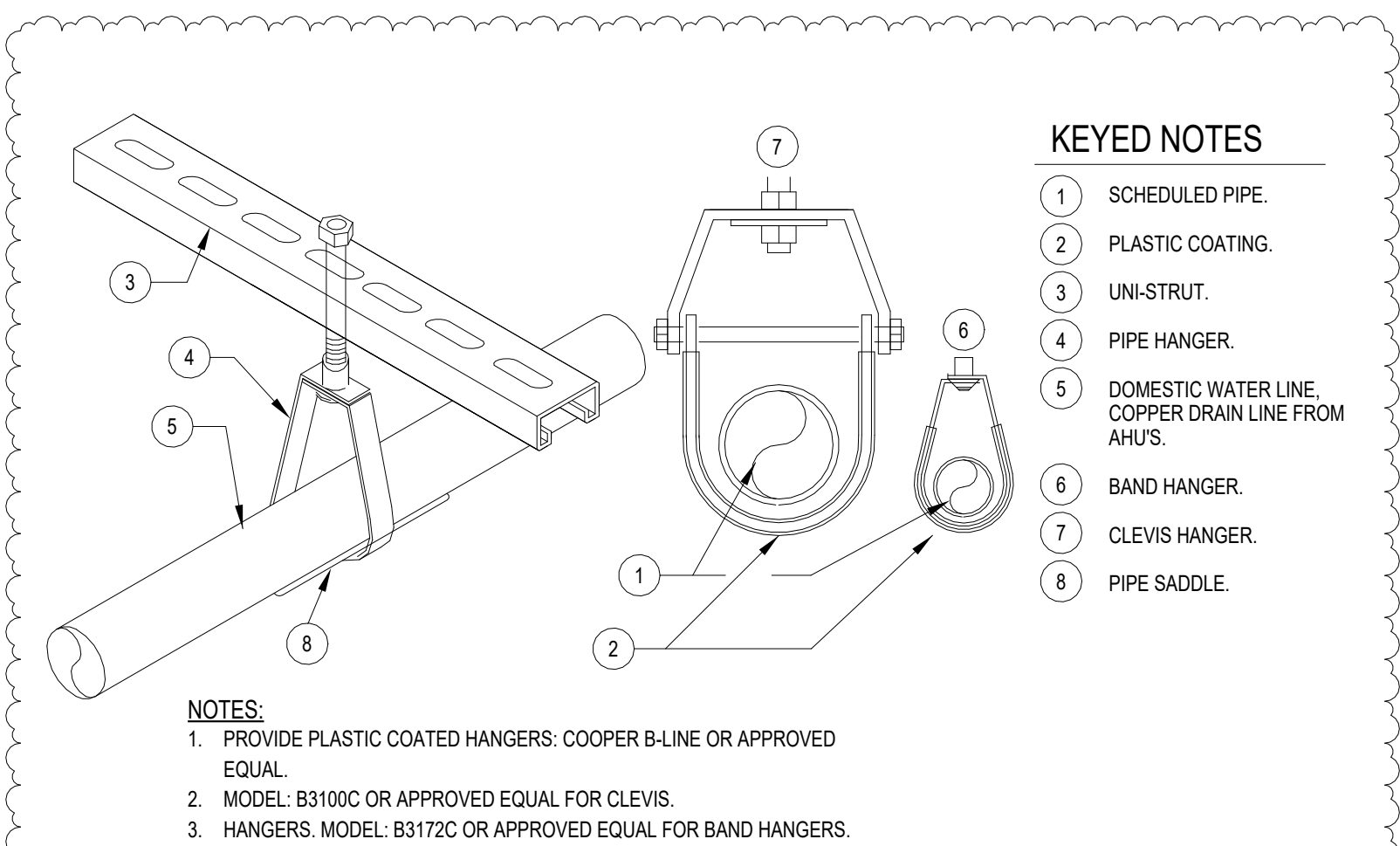
CIRCULATING PUMP SCHEDULE

Project: Falfurrias High School

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	ST-1	BOILER ROOM	5	20	1/12	3300	3/4	3	120-1-60	13	ALL	BELL & GOSSETT PL-30B
CP-2	CIRCULATING PUMP	ST-1	BOILER ROOM	5	20	1/12	3300	3/4	3	120-1-60	13	ALL	BELL & GOSSETT PL-30B
CP-3	CIRCULATING PUMP	GWH-1&2	BOILER ROOM	5	20	1/12	3300	3/4	3	120-1-60	13	ALL	BELL & GOSSETT PL-30B

NOTES:

- PROVIDE BRONZE BOOSTER BODY.
- PUMPS SHALL BE OPERATED AND CONTROLLED THRU TIME CLOCK AND THRU AQUASTAT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- REFER TO DETAIL SHEET FOR MORE INFORMATION.



DOMESTIC COLD & HOT WATER LINE PIPING SUPPORT DETAIL

03

SCALE: NOT TO SCALE

GWH1&2 GAS WATER HEATER

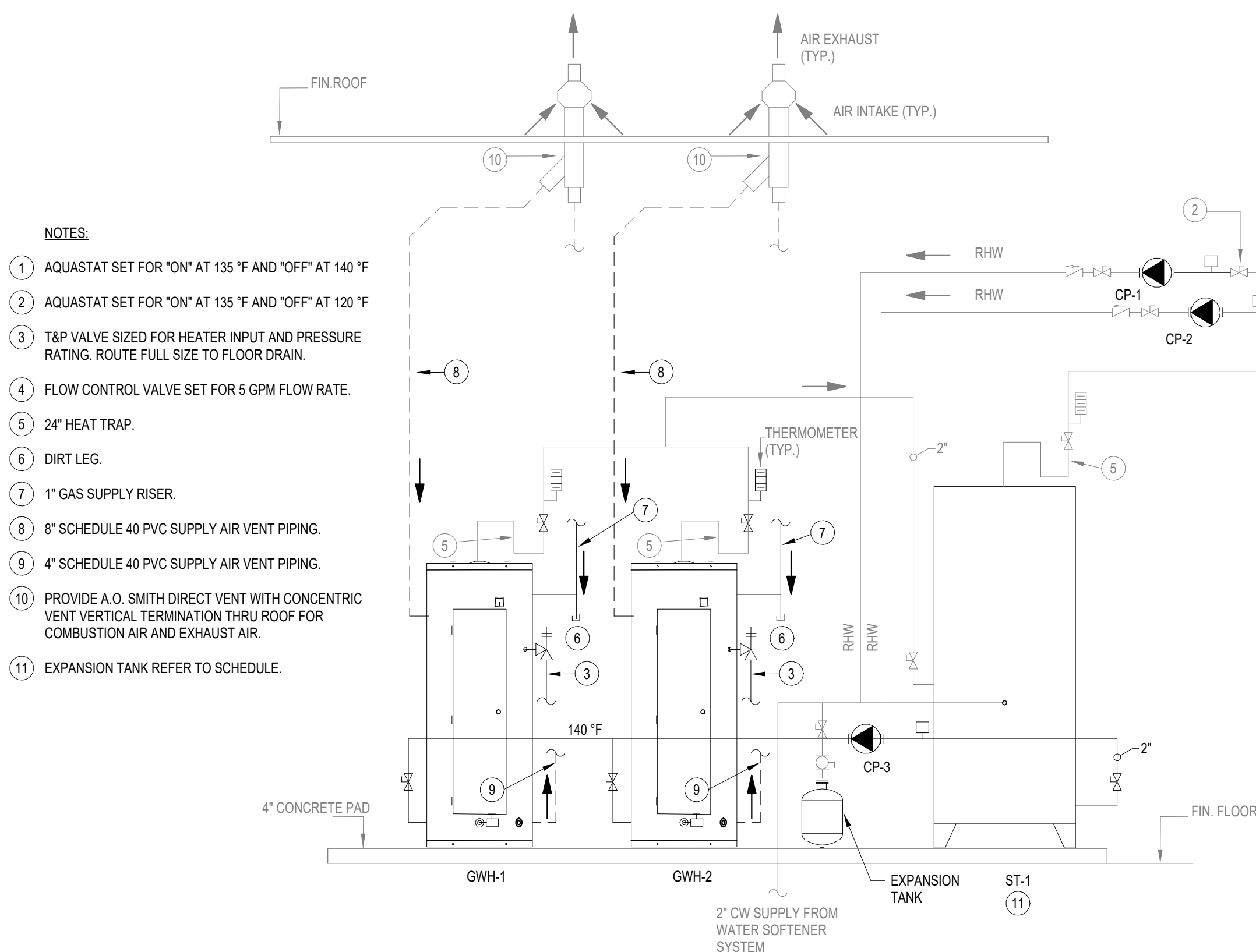
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SCALE: NOT TO SCALE

PLUMBING SYMBOLS LEGEND

	COLD WATER SUPPLY (CW)	A.F.F.	ABOVE FINISH FLOOR
	HOT WATER SUPPLY (HW)	GT	GREASE TRAP
	GAS LINE (GAS)	S.S.W.	SANITARY SEWER
	SOIL & SANITARY SEWER LINE (SSW)	WC	WATER CLOSET
	VENT LINE (VENT)	UR	URINAL
	PRIMARY STORM SEWER LINE (PSS)	P.O.C.	POINT OF CONNECTION
	SECONDARY STORM SEWER LINE (SSS)	L	LAVATORY
	RE-CIRCULATING HOT WATER LINES (RHW)	SK	SINK
	FIRE RISER LINE (FR)	EDF	ELECTRIC DRINKING FOUNTAIN
	FLOOR CLEANOUT	MSB	MOP SERVICE BASIN
	FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	SHR	SHOWER
	FLOOR SINK (FS) WITH DEEP SEAL TRAP	TP	TRAP PRIMER
	HUB DRAIN WITH DEEP SEAL TRAP	EWB	ELECTRIC WATER HEATER
	YARD CLEANOUT - 2 WAY	VTR	VENT THRU ROOF
	WALL HYDRANT (WH)	CO	CLEANOUT
	*WATER HAMMER ARRESTOR (WHA)	EESHR	EMERGENCY EYE/SHOWER
	WYE FITTING	Q	QUAZITE BOX WITH GATE VALVE
	45° ELBOW FITTING	SECTION VIEW CUT	
	90° ELBOW FITTING	GW	GAS WATER HEATER
	GAS METER	PSS	PRIMARY STORM SEWER
	BALL VALVE (BV)	SSD	SECONDARY STORM SEWER

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.



DUAL GAS WATER HEATER DETAIL

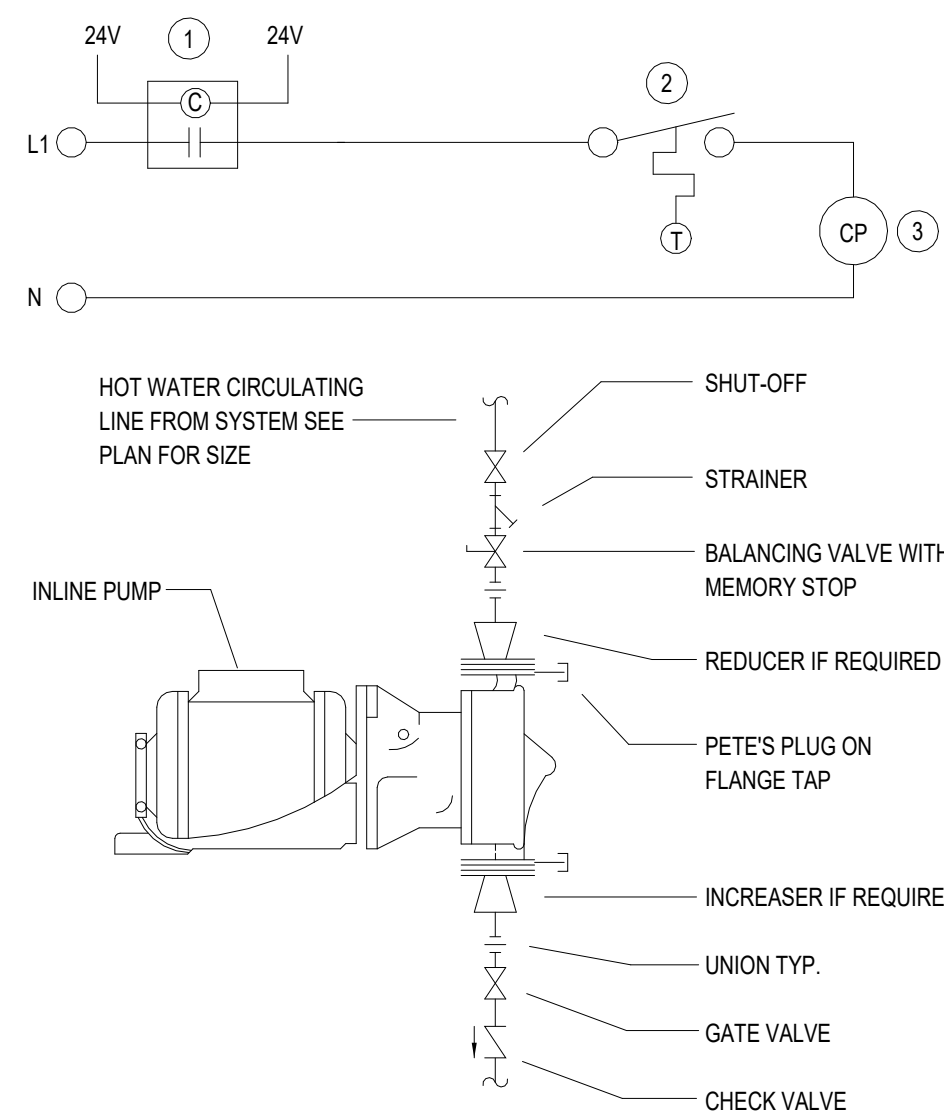
01

SCALE: NOT TO SCALE

GENERAL NOTES:

(APPLY TO ALL PLUMBING SHEETS)

- ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
- CONTRACTOR SHALL NOT CUT ANY EXTERIOR WALL STUD.
- ISOMETRIC DIAGRAMS ARE SHOWN FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS OR TO INDICATE FINAL SITE INSTALLATION.



CP-1 CIRCULATING PUMP WIRING SCHEMATIC & DETAIL

02

SCALE: NOT TO SCALE

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	NEW HP	NEW MCA	NEW MOCP	EXISTING MOCP	VOLTAGE	NEW DISCONNECT	EXISTING DISCONNECT	EXISTING BRANCH CIRCUIT	75" COPPER NEW BRANCH CIRCUIT	POWER SOURCE
GWH-1	-	20	1) 20	20	120V/1PHASE	RETAIN EXISTING	MANUAL CONTROLLER	1/2"-2#12 & #12G	RETAIN EXISTING	LKC
GWH-2	-	20	1) 20	20	120V/1PHASE	RETAIN EXISTING	MANUAL CONTROLLER	1/2"-2#12 & #12G	RETAIN EXISTING	LKC
BP-1	2 X 7.5 HP	11	2) 30	20	480V/3PHASE	RETAIN EXISTING	30A, 3PNF, 600V, NEMA 1	1/2"-3#12 & #12G	RETAIN EXISTING	HRB

GENERAL NOTES:

- LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL BELOW DUCTWORK OR PLUMBING LINES.
- IF EXISTING HVAC EQUIPMENT CONNECTIONS ARE NOTED TO BE REUSED AND DO NOT REACH NEW HVAC EQUIPMENT CONNECTION POINTS, PROVIDE A NEW JUNCTION BOX ABOVE CEILING AND SPICE FEEDER. CONTRACTOR SHALL PROVIDE THE ADDITIONAL WIRING AND RACEWAYS AS NOTED ON DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS.
- PROVIDE NEW FLEXIBLE RACEWAY FROM DISCONNECT TO NEW EQUIPMENT.

NOTES:

- RETAIN AND REUSE EXISTING CIRCUIT BREAKER.
- REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE A NEW UL LISTED CIRCUIT BREAKER FROM EXISTING PANELBOARD MANUFACTURER.

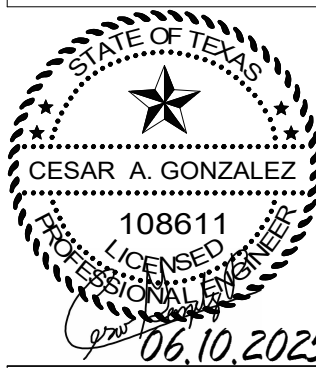
EXISTING PANELBOARD DATA:

- *HKB* - 250A, 480/277V, 3Ø, 4W, 35KAIC, SIEMENS TYPE P3
LKC - 100A, 208/120V, 3Ø, 4W, 22KAIC, SIEMENS TYPE P1

No.	REVISIONS	BY
1	07/02/2025	ETHOS

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FALFURRIAS HS AND JRH FIELDHOUSE PLUMBING UPGRADES
FALFURRIAS HIGH SCHOOL, FALFURRIAS, TX.



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Architects-Planners
Interior Designers

Date: 05/10/2025
Scale: As Noted
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