

LEGEND

	S or W	SOIL OR WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	G	GAS PIPING
	GV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COTG	CLEANOUT TO GRADE
	UNION	UNION
	VTR	VENT THRU ROOF
		SHEET NOTE
		POINT OF CONNECTION TO EXISTING
	MR	MOP RECEPTOR
	WC	WATER CLOSET
	TP	TRAP PRIMER
	EWI	ELECTRIC WATER HEATER
	WHA	WATER HAMMER ARRESTOR TYPE A
	WHB	WATER HAMMER ARRESTOR TYPE B
	WHC	WATER HAMMER ARRESTOR TYPE C
	L	LAVATORY
	KW	KILOWATT
	TVC	TEMPERATURE CONTROL VALVE
	WV	WET VENT
	CP	CIRCULATOR PUMP
	HD	2" HUB DRAIN WITH FLEXIBLE TRAP SEAL BY MIFAB OR EQUAL ABOVE CEILING UNLESS NOTED
	MV	MIXING VALVE
	EWC	ELECTRIC WATER COOLER
	UB	UTILITY BOX
	SK	SINK
	(A)	BID ALTERNATE FIXTURE

GENERAL NOTES

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
- FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
- ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.
- ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
- ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
- SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
- COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.
- UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
- ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
- CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE 2023 FLORIDA BUILDING CODE.

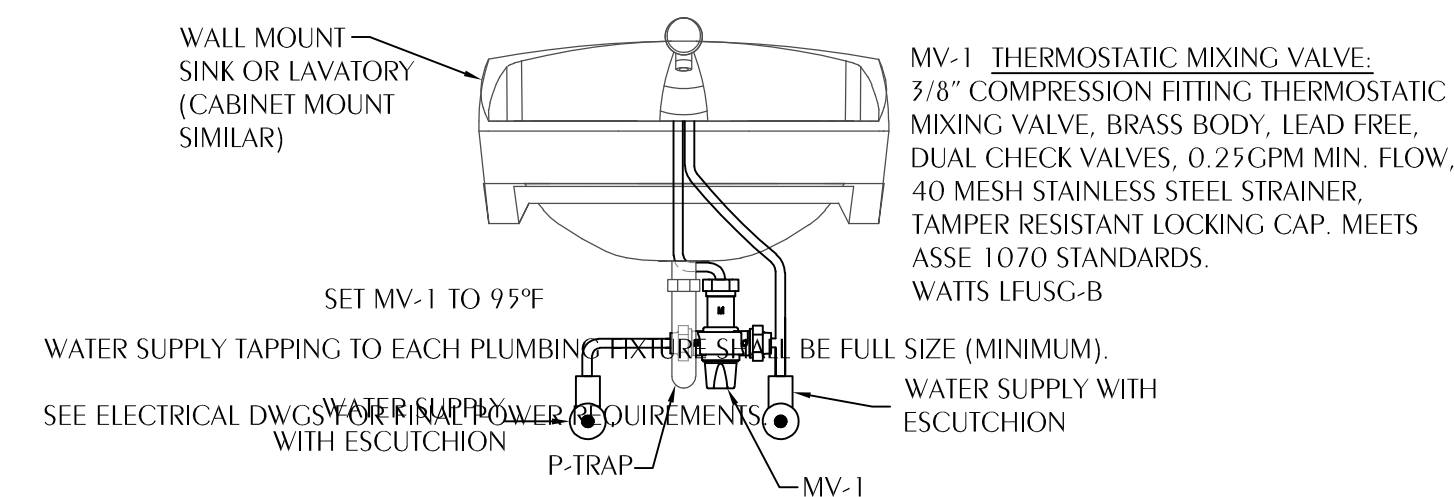
PLUMBING SCOPE

ALL WALL MOUNTED WATER CLOSET AND LAVATORY FIXTURES SHALL BE REPLACED. THESE ARE DENOTED IN FLOOR PLANS. ALL WATER HEATERS WITH A CAPACITY OF LESS THAN OR EQUAL TO 10 GALLONS SHALL BE RELOCATED AND INSTALLED HIGH ON WALLS. INDICATED WATER HEATERS SHALL ALSO BE REPLACED.

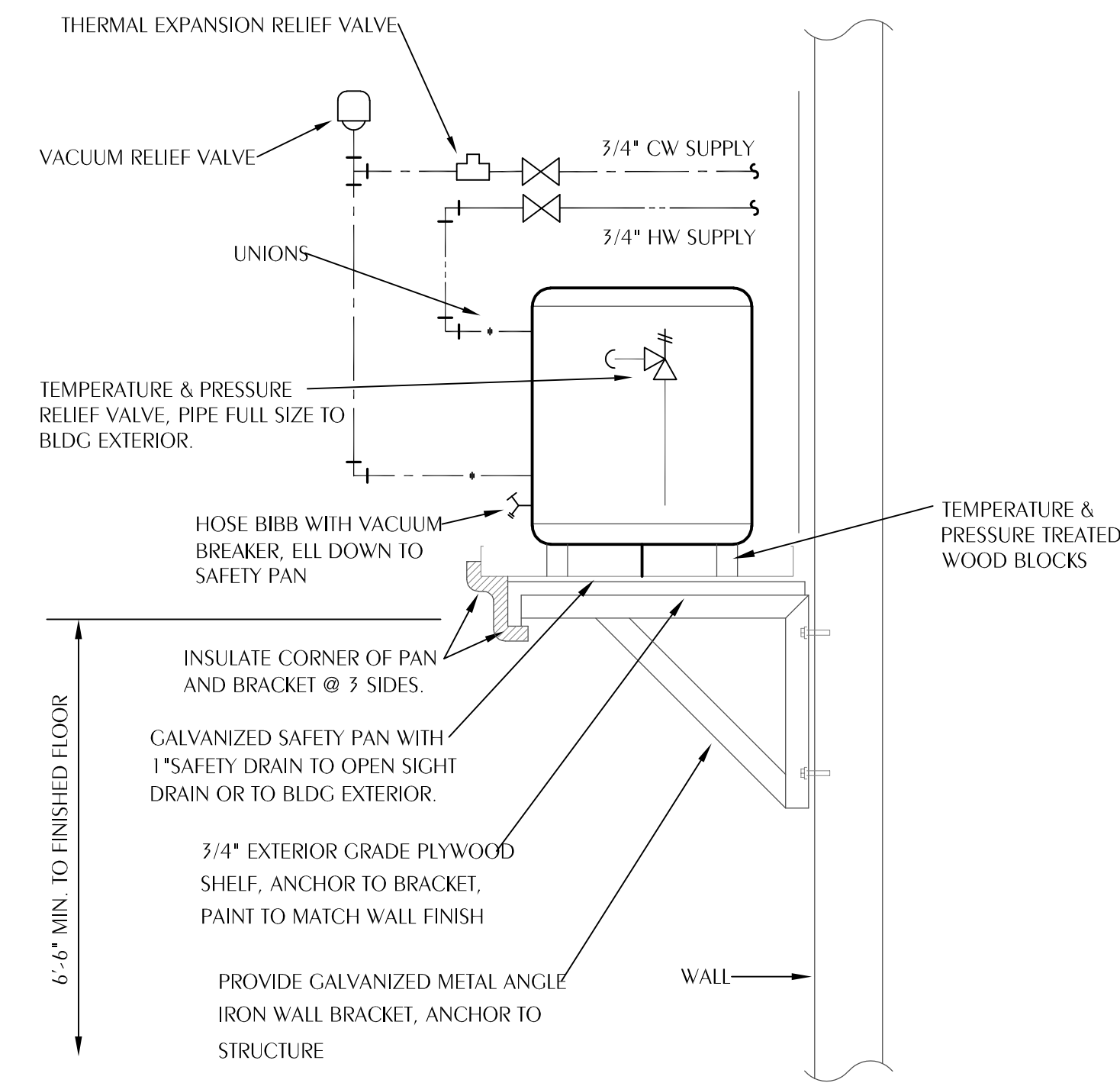
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	PIPE SIZES-INCHES				REMARKS
		CW	HW	W	G	
WC-1	WATER CLOSET	1	-	3	-	FLOOR-MOUNT, STANDARD HEIGHT, EXPOSED FLUSH VALVE
WC-2	WATER CLOSET	1	-	3	-	FLOOR-MOUNT, HANDICAPPED ACCESSIBLE, EXPOSED FLUSH VALVE
UR-1	URINAL	1	-	3	-	VIT. CHINA, WALL-MOUNT, HANDICAPPED ACCESSIBLE, EXPOSED FLUSH VALVE
L-1	LAVATORY	1/2	-	3	-	VIT. CHINA, WALL-MOUNT, CHAIR CARRIER, HANDICAPPED ACCESSIBLE, OFFSET DRAIN, HC ACCESSIBLE METERING FAUCET, INSULATION KIT
SK-1	DOUBLE-BOWL SINK	1/2	-	1-1/2	-	CLEAN AND REUSE EXISTING SINK. PROVIDE NEW GOOSENECK FAUCET, DRAIN AND P-TRAP.
SK-2	SINGLE-BOWL SINK WITH BUBBLER	1/2	-	1-1/2	-	CLEAN AND REUSE EXISTING SINK. PROVIDE NEW GOOSENECK FAUCET, BUBBLER, DRAIN AND P-TRAP.
SK-3	SINGLE-BOWL SINK	1/2	-	1-1/2	-	CLEAN AND REUSE EXISTING SINK. PROVIDE NEW GOOSENECK FAUCET, DRAIN AND P-TRAP.
EWI-1	WATER HEATER	3/4	3/4	-	-	RHEEM 6 GAL 120V ELECTRIC WATER HEATER. 2.0 kW
EWI-3	WATER HEATER	3/4	3/4	-	-	RHEEM 10 GAL 120V ELECTRIC WATER HEATER. 2.0 kW
DF-1	ELECTRIC WATER COOLER WITH BOTTLE FILL STATION	1/2	-	2	-	EIKAY LZS8WSK
DF-2	PEDESTAL OUTDOOR DRINKING FOUNTAIN	1/2	-	2	-	EIKAY LK4110

- WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM). PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.
- SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.



1 LAV/SINK MIXING VALVE DETAIL
SCALE: NONE



2 WALL-MOUNT EWH DETAIL
SCALE: NONE

PROJECT VOLUME 2

TOMMY SMITH ELEMENTARY SCHOOL RENOVATIONS

5044 TOMMY SMITH DR.
PANAMA CITY, FL 32404

BAY DISTRICT SCHOOLS

ARCHITECT'S SEAL

NOT FOR CONSTRUCTION

PROJECT TEAM

- ARCHITECTURAL**
Caldwell Associates
- PLUMBING**
Watford Engineering
- MECHANICAL**
Watford Engineering
- ELECTRICAL**
HG Engineers

PROJECT NUMBERS

Architect No: 22045B

DELIVERABLES

Schematic Design:	None
Design Development:	20 JULY 2023
Bid Documents:	TBD
Architect Issued to CM for Bidding	03 June 2024

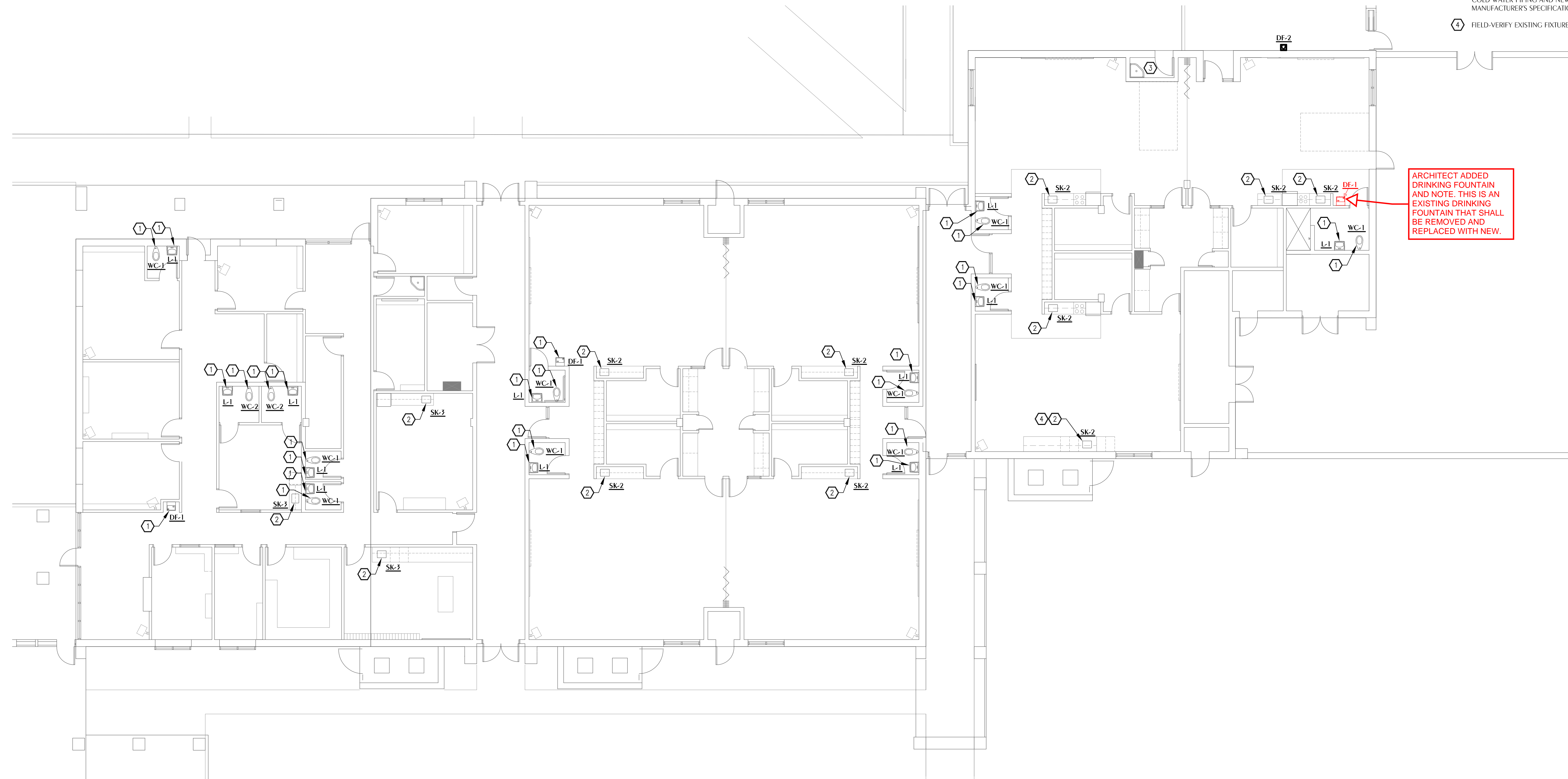
SHEET TITLE
PLUMBING LEGEND, SCHEDULES, DETAILS, AND NOTES

SHEET NUMBER
P001



SHEET NOTES

- ① FIXTURE TO BE REMOVED AND REPLACED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FIXTURE TO ALL EXISTING UTILITIES.
- ② SINK TO BE CLEANED AND REUSED. REPLACE FAUCET, DRAIN, P-TRAP, AND TAIL PIECE. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FAUCET AND DRAIN TO ALL EXISTING UTILITIES.
- ③ PROVIDE REMOTE WATER CHILLER AND CONNECT TO NEW DRINKING FOUNTAIN DF-2. INSTALL CHILLER ON NEW SHELF IN MECHANICAL ROOM AND CONNECT TO EXISTING DOMESTIC COLD WATER PIPING AND NEW DRINKING FOUNTAIN PER THE MANUFACTURER'S SPECIFICATIONS.
- ④ FIELD-VERIFY EXISTING FIXTURE.



PLUMBING FLOOR PLAN - BUILDING 1
P101 SCALE: 1/8" = 1'-0"

PROJECT
VOLUME 2

TOMMY SMITH ELEMENTARY SCHOOL RENOVATIONS

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PANAMA CITY, FL 32404

OWNER
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Caldwell Associates

PLUMBING
Watford Engineering

MECHANICAL
Watford Engineering

ELECTRICAL
HG Engineers

PROJECT NUMBERS

Architect No: 22045B

DELIVERABLES

Schematic Design: None
Design Development: 20 JULY 2023
Bid Documents: TBD

Architect Issued to CM for Bidding 03 June 2024

SHEET TITLE

PLUMBING FLOOR PLAN - BLDG. 1

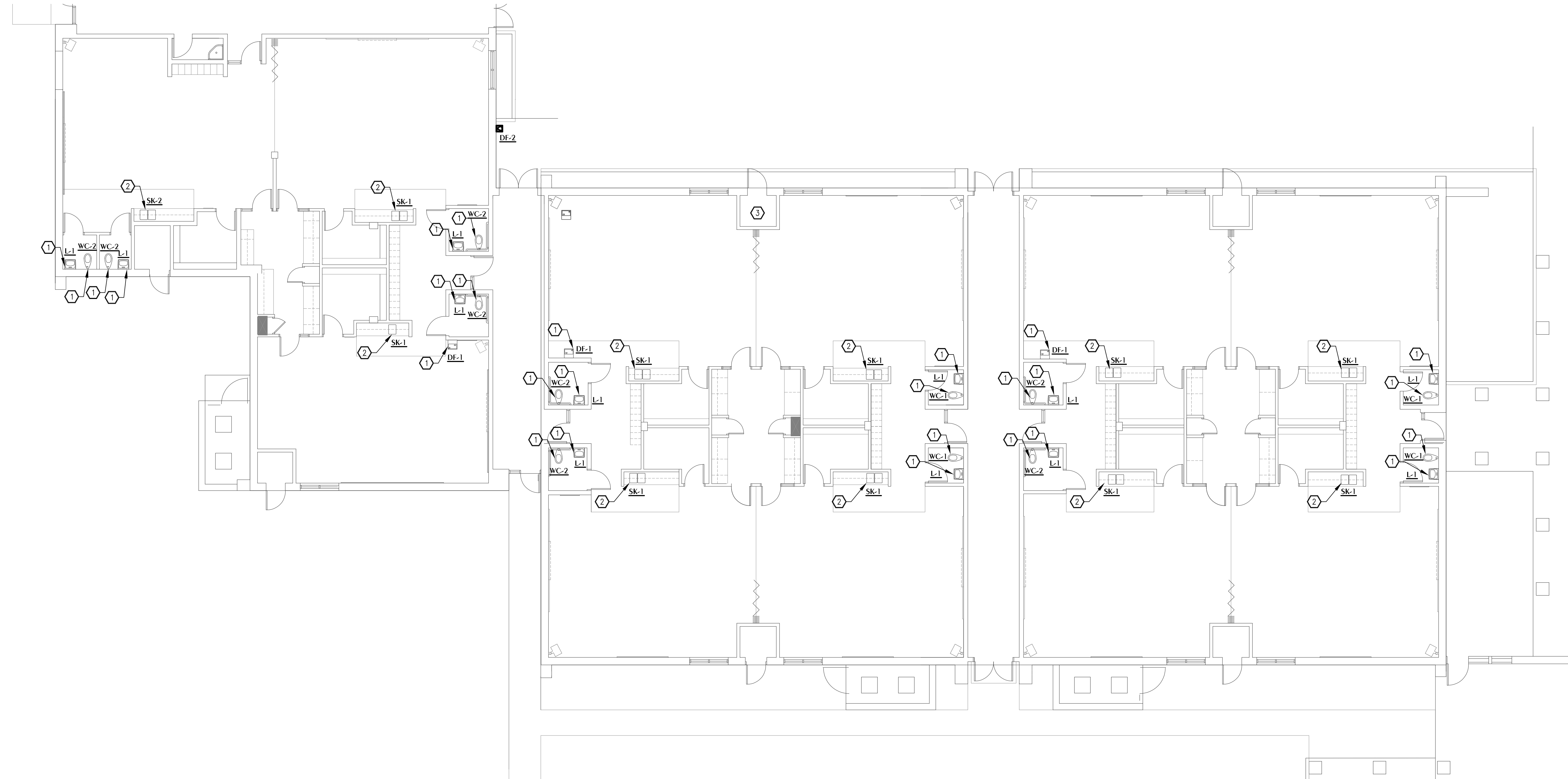
SHEET NUMBER

P101



SHEET NOTES

- ① FIXTURE TO BE REMOVED AND REPLACED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FIXTURE TO ALL EXISTING UTILITIES.
- ② SINK TO BE CLEANED AND REUSED. REPLACE FAUCET, DRAIN, P-TRAP, AND TAIL PIECE. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FAUCET AND DRAIN TO ALL EXISTING UTILITIES.
- ③ PROVIDE REMOTE WATER CHILLER AND CONNECT TO NEW DRINKING FOUNTAIN DF-2. INSTALL CHILLER ON NEW SHELF IN MECHANICAL ROOM AND CONNECT TO EXISTING DOMESTIC COLD WATER PIPING AND NEW DRINKING FOUNTAIN PER THE MANUFACTURER'S SPECIFICATIONS.



1 PLUMBING FLOOR PLAN - BUILDING 2
SCALE: 1/8" = 1'-0"

PROJECT
VOLUME 2

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ARCHITECT'S SEAL

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CONSTRUCTION

PROJECT TEAM

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Caldwell Associates

PLUMBING
Watford Engineering

MECHANICAL
Watford Engineering

ELECTRICAL
HG Engineers

PROJECT NUMBERS

Architect No: 22045B

DELIVERABLES

Schematic Design: None
Design Development: 20 JULY 2023
Bid Documents: TBD

Architect Issued
to CM for Bidding 03 June 2024

SHEET TITLE

PLUMBING FLOOR
PLAN - BLDG. 2

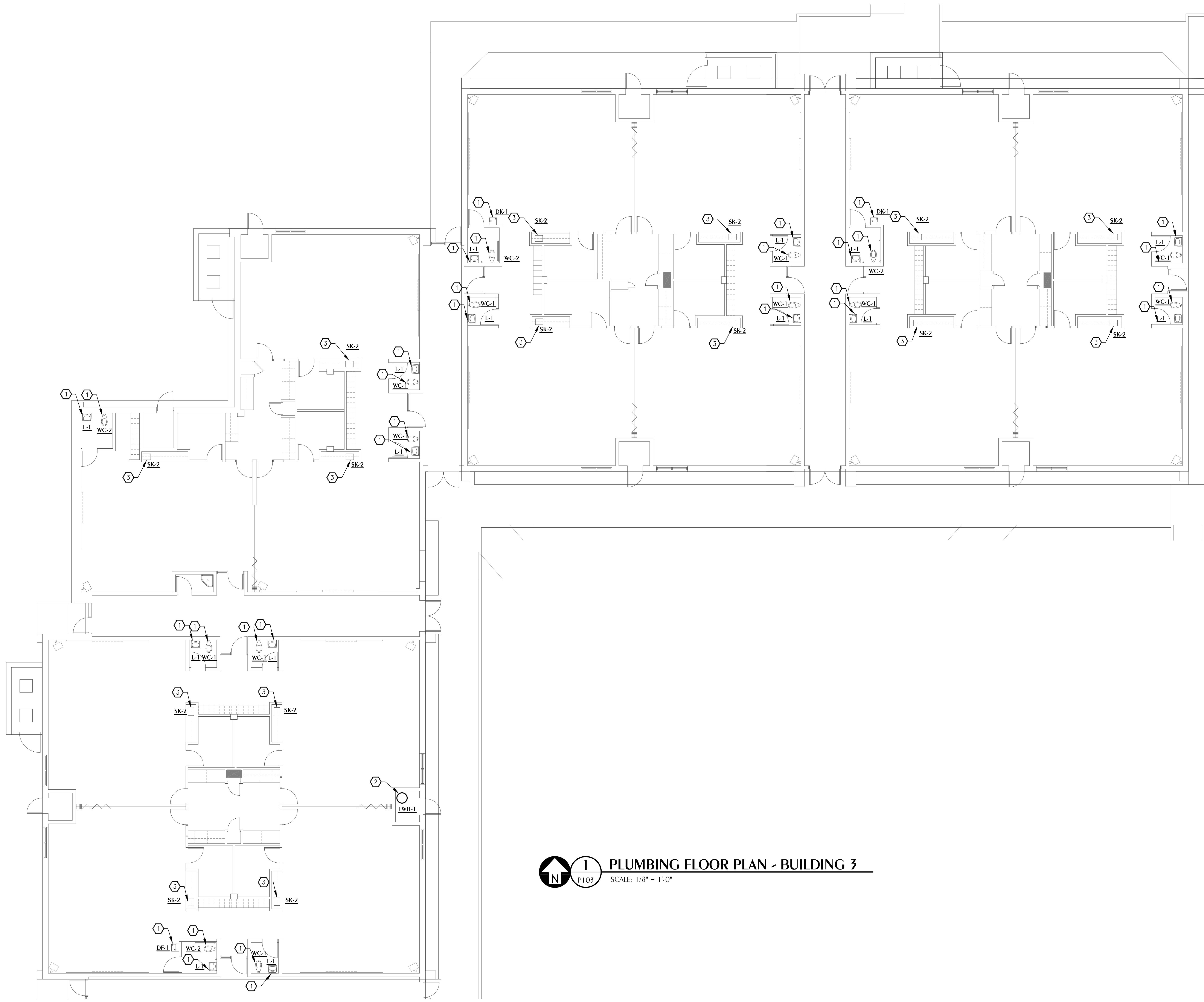
SHEET NUMBER

P102



SHEET NOTES

- ① FIXTURE TO BE REMOVED AND REPLACED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FIXTURE TO ALL EXISTING UTILITIES.
- ② PROVIDE SHELF FOR WATER HEATER. REMOVE AND REPLACE WATER HEATER. RELOCATE WATER HEATER TO BE INSTALLED HIGH ON WALL. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW.
- ③ SINK TO BE CLEANED AND REUSED. REPLACE FAUCET, DRAIN, P-TRAP, AND TAIL PIECE. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FAUCET AND DRAIN TO ALL EXISTING UTILITIES.



PLUMBING FLOOR PLAN - BUILDING 3
 SCALE: 1/8" = 1'-0"

PROJECT
VOLUME 2

TOMMY SMITH ELEMENTARY SCHOOL
RENOVATIONS

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ARCHITECT'S SEAL

NOT FOR CONSTRUCTION

PROJECT TEAM
 ARCHITECTURAL
 Caldwell Associates
 PLUMBING
 Watford Engineering
 MECHANICAL
 Watford Engineering
 ELECTRICAL
 HG Engineers

PROJECT NUMBERS
 Architect No: 22045B

DELIVERABLES
 Schematic Design: None
 Design Development: 20 JULY 2023
 Bid Documents: TBD
 Architect Issued
 to CM for Bidding 03 June 2024

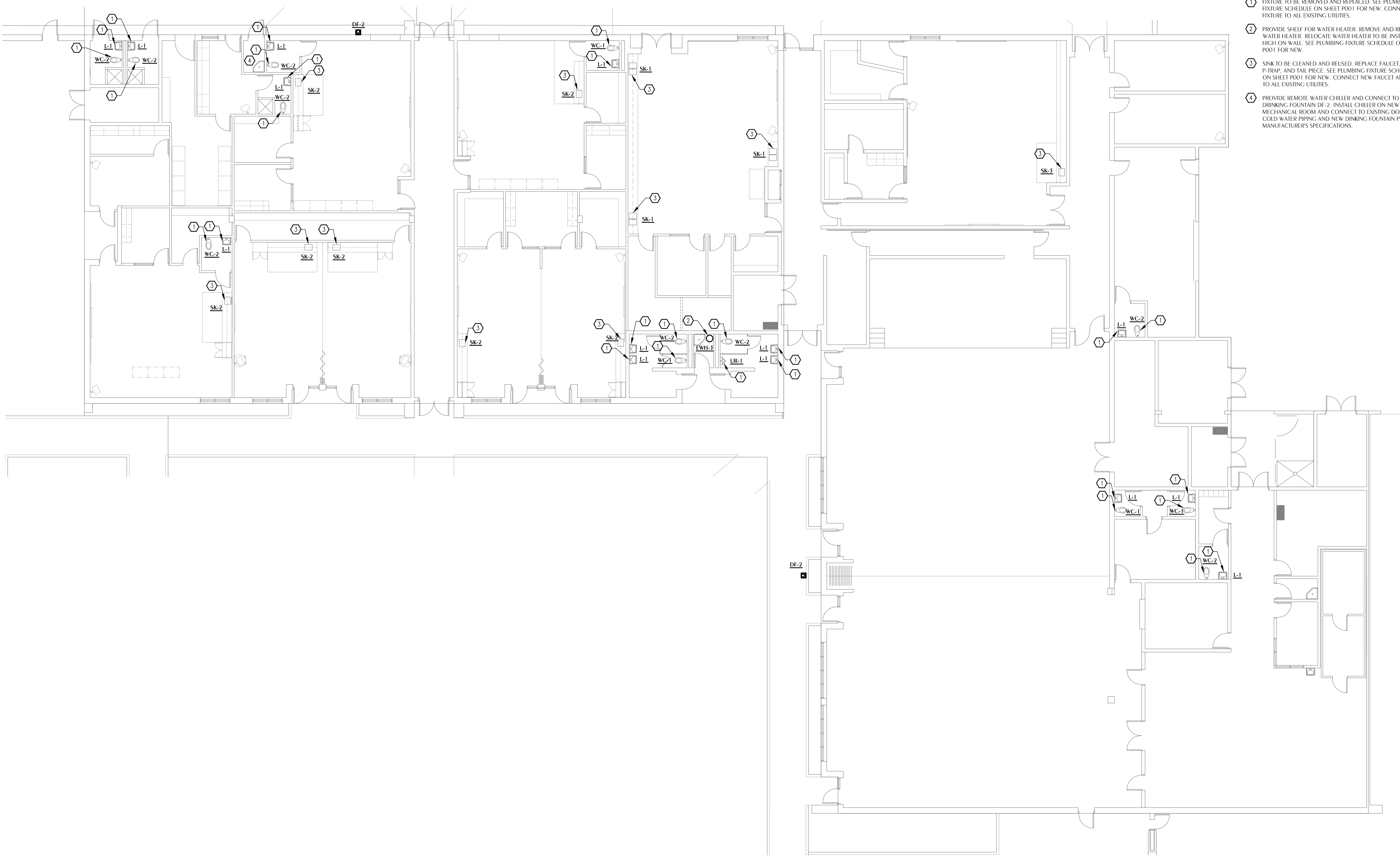
SHEET TITLE
 PLUMBING FLOOR
 PLAN - BLDG. 3

SHEET NUMBER
P103

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 Florida CA Number: 27125
 Keith A. Johnson PE
 Florida License Number: 95457
 800.526.3447
 Project Number: 2025018
 Created By: JAG
 Drawn By: JVB

SHEET NOTES

- ① FIXTURE TO BE REMOVED AND REPLACED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FIXTURE TO ALL EXISTING UTILITIES.
- ② PROVIDE SHELF FOR WATER HEATER. REMOVE AND REPLACE WATER HEATER. RELOCATE WATER HEATER TO BE INSTALLED HIGH ON WALL. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW.
- ③ SINK TO BE CLEANED AND REUSED. REPLACE FAUCET, DRAIN, P-TRAP, AND TAIL PIECE. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FAUCET AND DRAIN TO ALL EXISTING UTILITIES.
- ④ PROVIDE REMOTE WATER CHILLER AND CONNECT TO NEW DRINKING FOUNTAIN DF-2. INSTALL CHILLER ON NEW SHELF IN MECHANICAL ROOM AND CONNECT TO EXISTING DOMESTIC COLD WATER PIPING AND NEW DRINKING FOUNTAIN PER THE MANUFACTURER'S SPECIFICATIONS.



PROJECT
VOLUME 2

TOMMY SMITH ELEMENTARY SCHOOL RENOVATIONS

5044 TOMMY SMITH DR.
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BAY DISTRICT SCHOOLS

ARCHITECT'S SEAL

NOT FOR CONSTRUCTION

PROJECT TEAM
ARCHITECTURAL
Caldwell Associates
PLUMBING
Watford Engineering
MECHANICAL
Watford Engineering
ELECTRICAL
HG Engineers

PROJECT NUMBERS
Architect No: 22045B

DELIVERABLES
Schematic Design: None
Design Development: 20 JULY 2023
Bid Documents: TBD
Architect Issued to CM for Bidding 03 June 2024

SHEET TITLE
PLUMBING FLOOR PLAN - BLDG. 4

SHEET NUMBER
P104

PLUMBING FLOOR PLAN - BUILDING 4
SCALE: 1/8" = 1'-0"

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311 N. College St. Office 1018 Auburn, AL 36830
Florida CA Number: 27125
Keith A. Johnson PE
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800.526.3647
Project Number: 2025418
Created By: JAG
Drawn By: JVB

SHEET NOTES

- ① FIXTURE TO BE REMOVED AND REPLACED. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FIXTURE TO ALL EXISTING UTILITIES.
- ② PROVIDE SHELF FOR WATER HEATER. RAISE WATER HEATER AND RECONNECT.
- ③ SINK TO BE CLEANED AND REUSED. REPLACE FAUCET, DRAIN, P-TRAP, AND TAIL PIECE. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P001 FOR NEW. CONNECT NEW FAUCET AND DRAIN TO ALL EXISTING UTILITIES.



PLUMBING FLOOR PLAN - BUILDING 5
SCALE: 1/8" = 1'-0"

PROJECT
VOLUME 2

TOMMY SMITH ELEMENTARY SCHOOL
RENOVATIONS

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ARCHITECT'S SEAL

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PROJECT TEAM
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Caldwell Associates
PLUMBING
Watford Engineering
MECHANICAL
Watford Engineering
ELECTRICAL
HG Engineers

PROJECT NUMBERS
Architect No: 22045B

DELIVERABLES
Schematic Design: None
Design Development: 20 JULY 2023
Bid Documents: TBD
Architect Issued to CM for Bidding 03 June 2024

SHEET TITLE
PLUMBING FLOOR PLAN - BLDG. 5

SHEET NUMBER
P105

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Drawn By: JVB