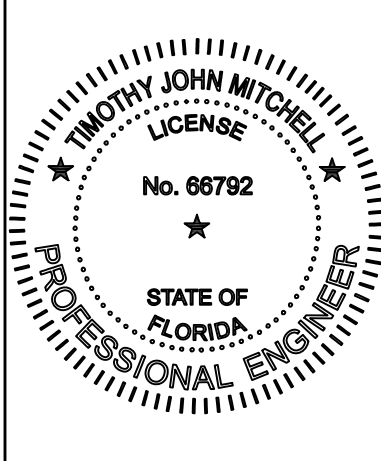


**JENKINS ENGINEERING, INC.**  
 121 HART STREET  
 GIBLER, FLORIDA 32576  
 PHONE: (850) 729-1411  
 FAX: (850) 729-2460

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 GIBLER, FLORIDA 32541  
 PHONE: (850) 729-1411  
 FAX: (850) 837-2450

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REV	DATE	DESCRIPTION

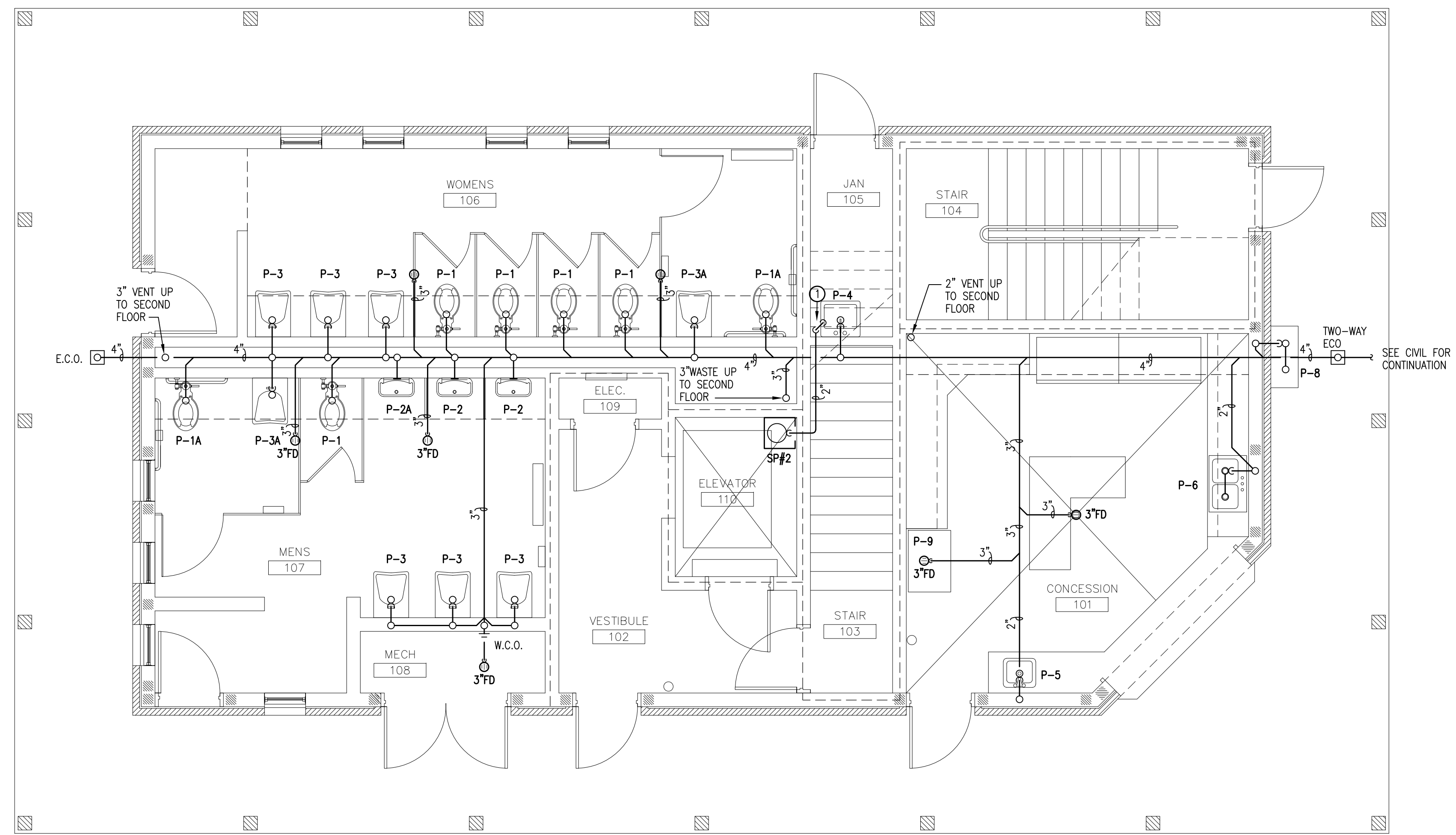
**FT WALTON BEACH PARK**  
 HOLLYWOOD BLVD.  
 FT. WALTON BEACH • FLORIDA

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: FT WALTON BEACH PARK  
 DATE: 02/29/23  
 DESIGNED: TJM  
 DRAWN: TJM

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 SHEET NUMBER  
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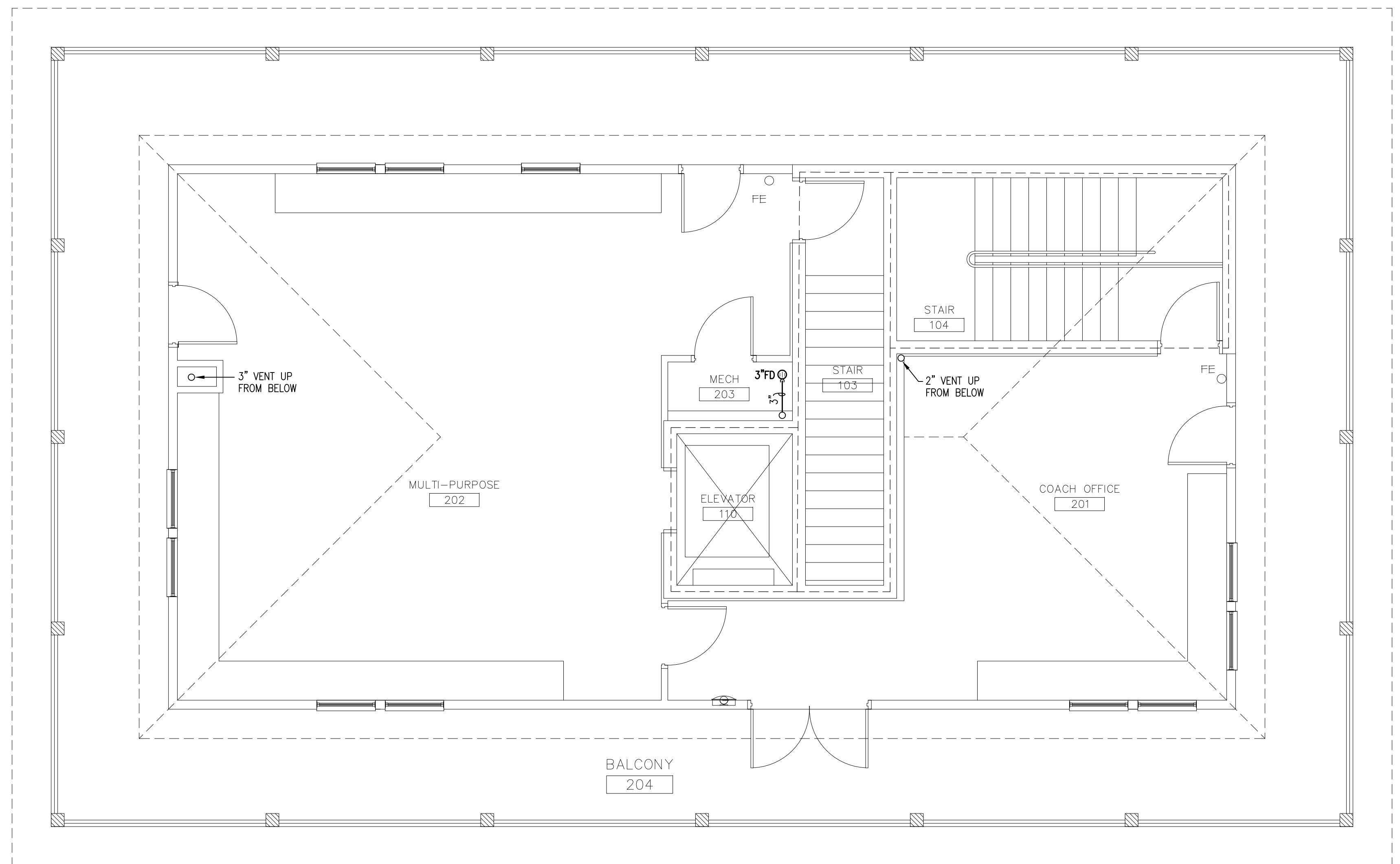
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P1.1



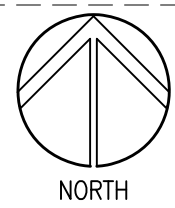
**PLUMBING RESTROOM BUILDING FIRST FLOOR WASTE PIPING PLAN**  
 SCALE: 1/4" = 1'-0"

**KEY NOTES:**  
 1. TURN SUMP PUMP DISCHARGE UP IN JANITOR CLOSET AND TERMINATE OVER JANITOR SINK.

**GENERAL NOTES:**  
 1. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP GUARDS.



2  
P1.1



**PLUMBING RESTROOM BUILDING SECOND FLOOR WASTE PIPING PLAN**  
 SCALE: 1/4" = 1'-0"

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 TIMOTHY J. MITCHELL, P.E. ON FEBRUARY 29, 2024.

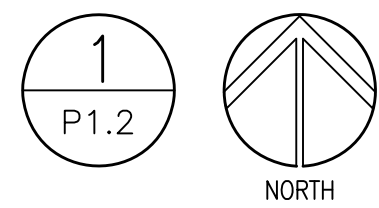
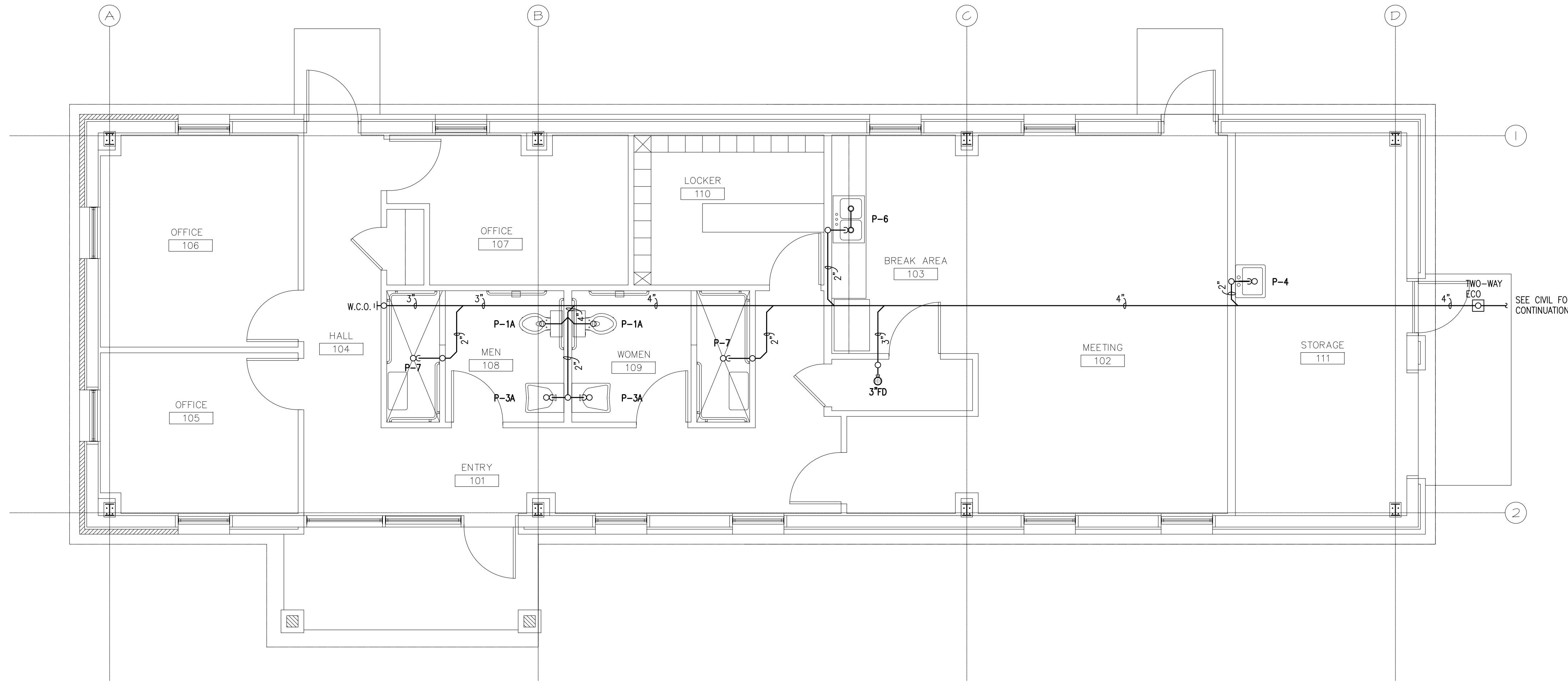
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 51 EAST GREGORY STREET  
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 PHONE: (850) 434-2661

CERTIFICATION OF AUTHORIZATION No. 5254  
 MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093  
 MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG. NO. 86792  
 ELECTRICAL ENGINEER: ARNON T. YARGESE, P.E. FLORIDA REG. NO. 76319

H. M. YONGE AND ASSOC. JOB# 21-174

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**PLUMBING RECREATION BUILDING WASTE PIPING PLAN**  
SCALE: 1/4" = 1'-0"

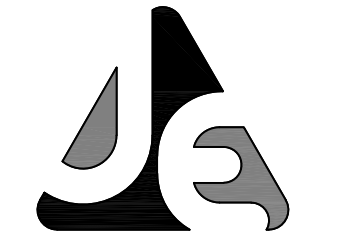
**GENERAL NOTES:**

- 1. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP GUARDS.

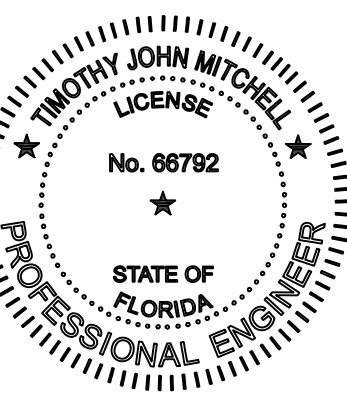
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H. M. YONGE AND ASSOC. JOB# 21-174



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FAX: (850) 237-2460  
  
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PHONE: (850) 337-4146  
FAX: (850) 837-2450  
  
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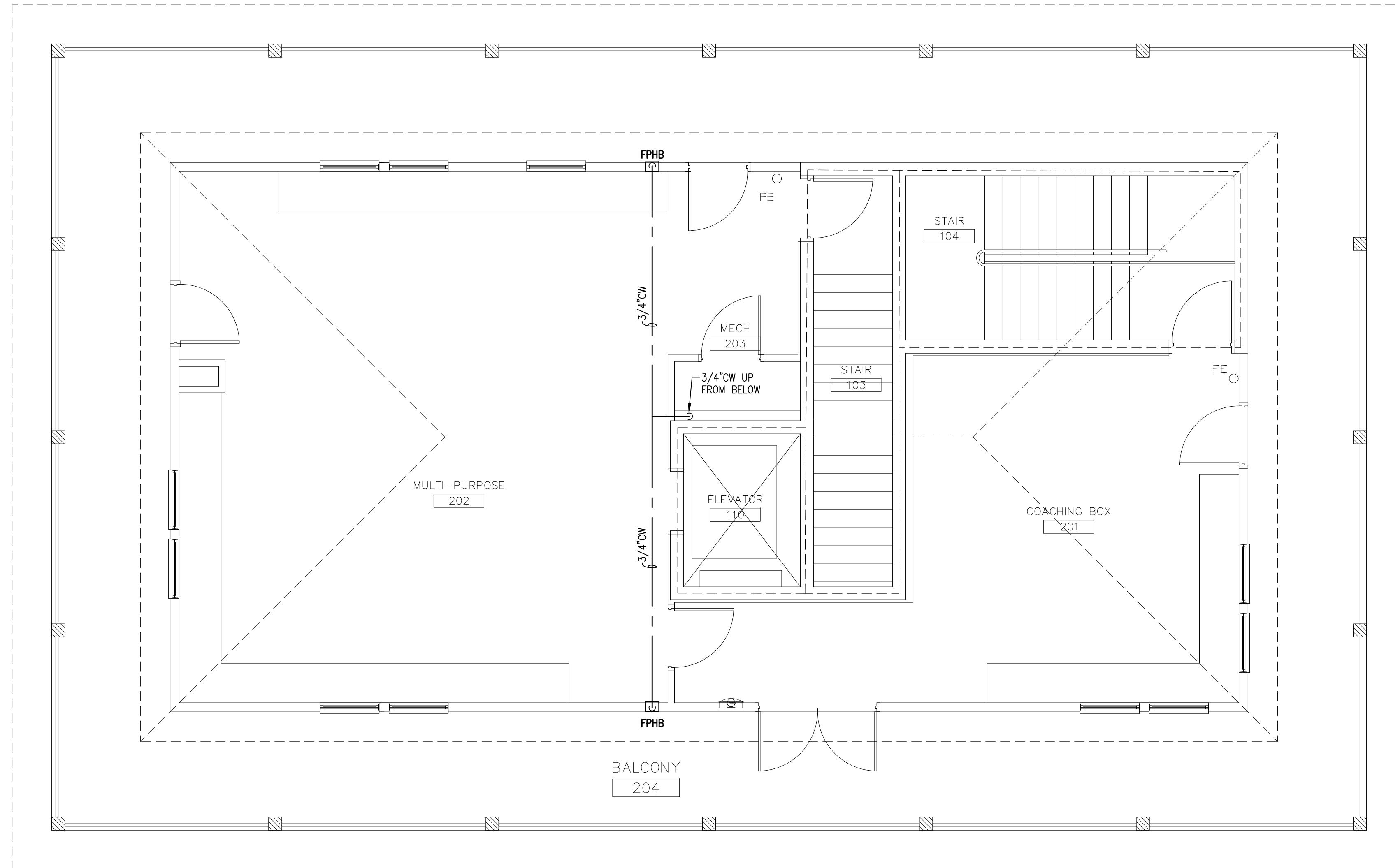
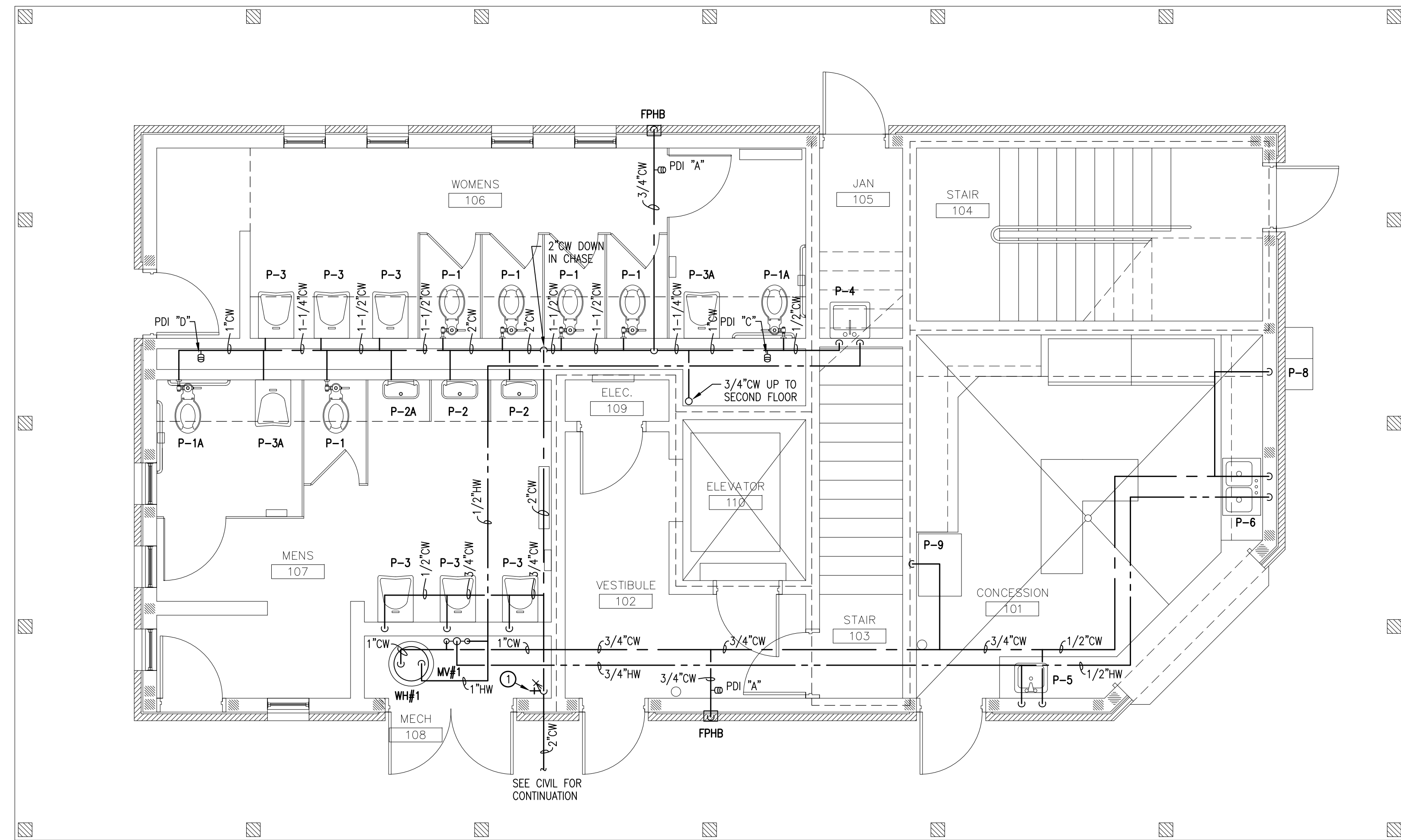
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HOLLYWOOD BLVD.  
FT. WALTON BEACH • FLORIDA  
  
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DATE: 02/29/23  
DESIGNED: TJM  
DRAWN: TJM

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**P 1.2**

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P2.1



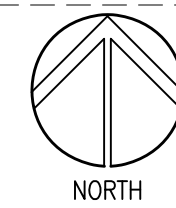
**PLUMBING RESTROOM BUILDING FIRST FLOOR WATER PIPING PLAN**

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

**PLUMBING KEY NOTES:**

- ① PROVIDE BUILDING SHUT-OFF VALVE 24" A.F.F. WITH HOSE BIBB 8" ABOVE VALVE FOR SYSTEM DRAINING.

2  
P2.1



**PLUMBING RESTROOM BUILDING SECOND FLOOR WATER PIPING PLAN**

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

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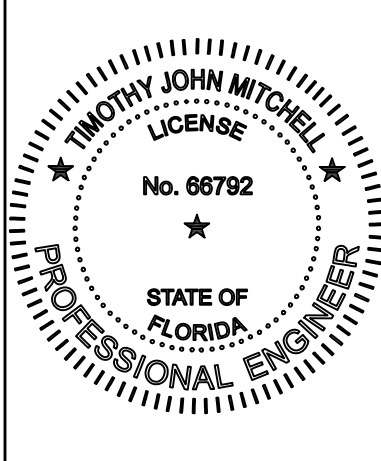
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ELECTRICAL ENGINEER: ABRAHAM T. YARGISEE, P.E. FLORIDA REG. NO. 76319

H. M. YONGE AND ASSOC. JOB# 21-174

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HOLLYWOOD BLVD.  
FT. WALTON BEACH • FLORIDA

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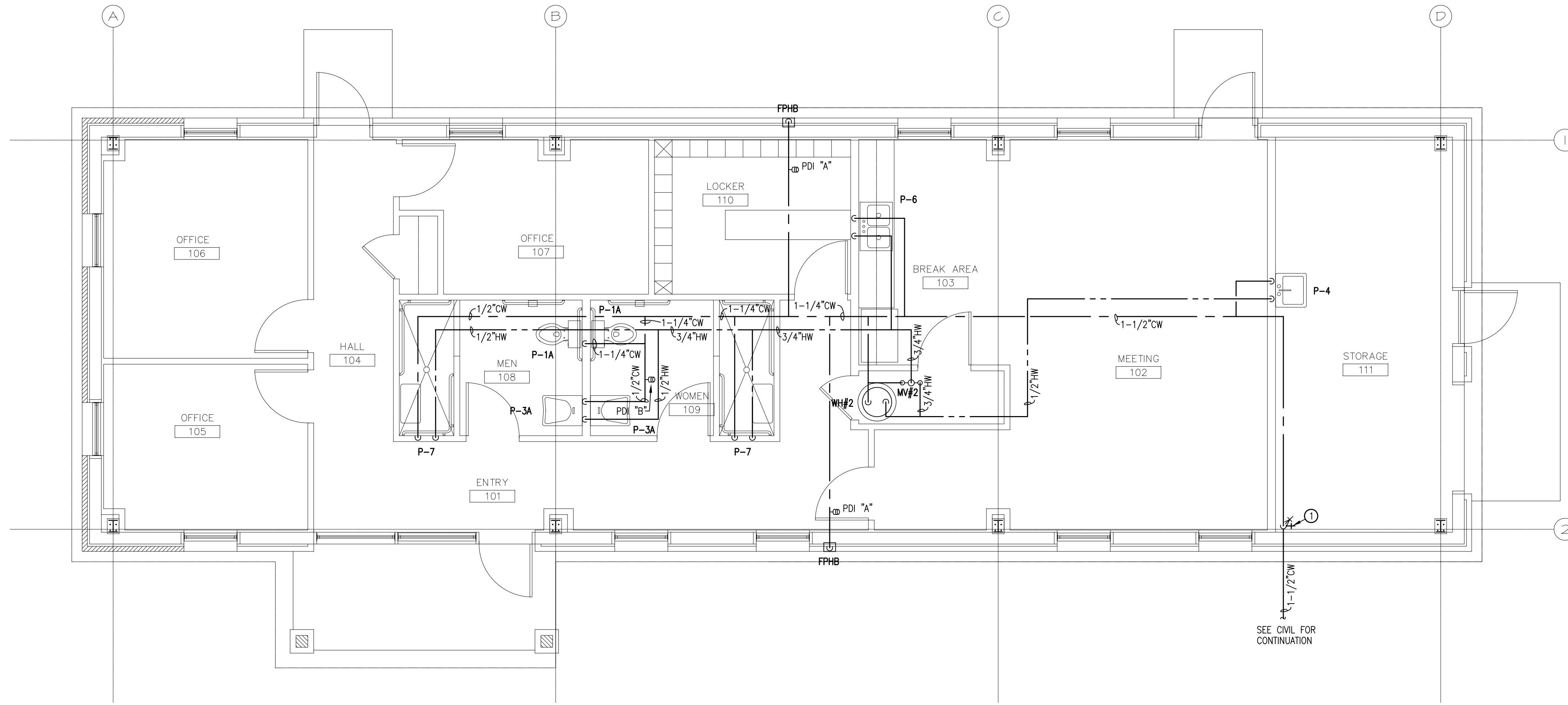
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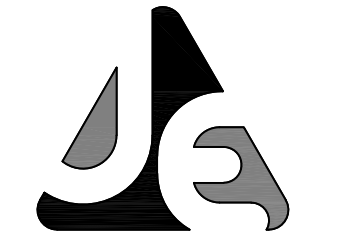
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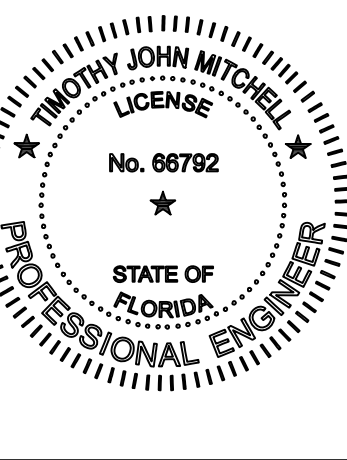


1  
 P2.2

**PLUMBING RECREATION BUILDING WATER PIPING PLAN**  
 SCALE: 1/4" = 1'-0"



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 JECIVIL.COM  
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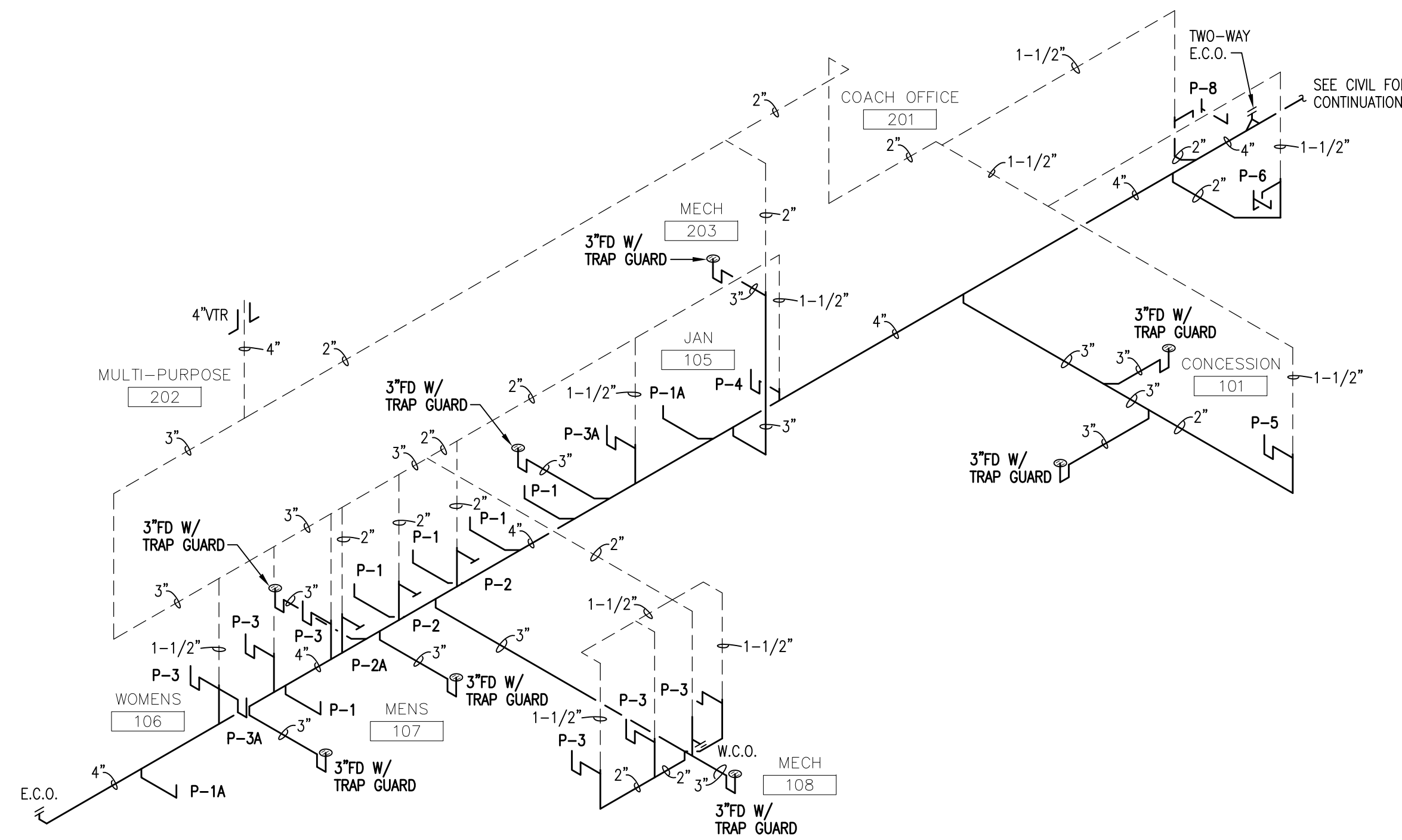
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 PHONE: (850)434-3661  
CERTIFICATION OF AUTHORIZATION No. 5254  
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H. M. YONGE AND ASSOC. JOB# 21-174

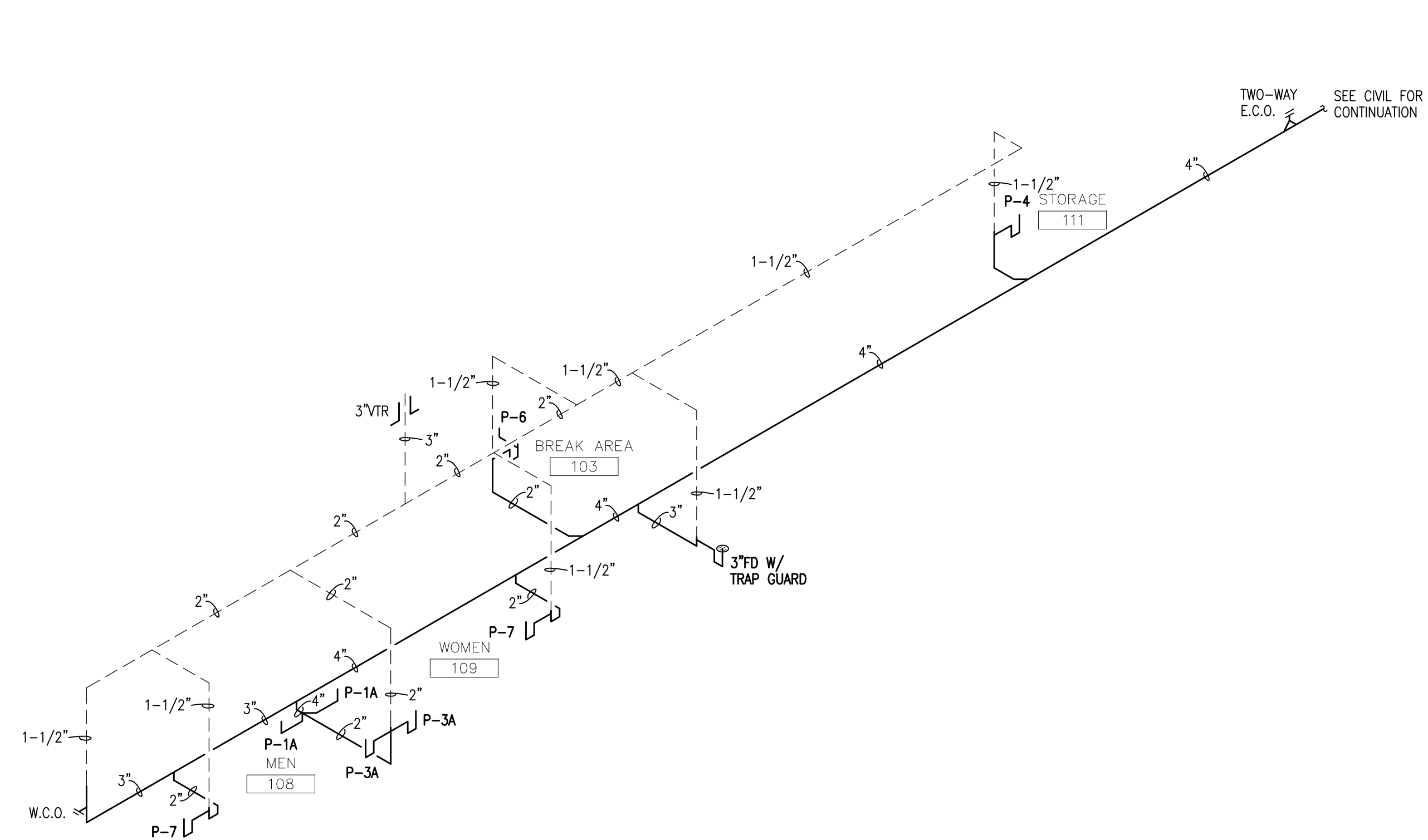
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**RESTROOM BUILDING WASTE RISER DIAGRAM**  
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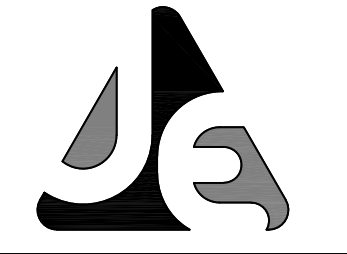
**RECREATION BUILDING WASTE RISER DIAGRAM**  
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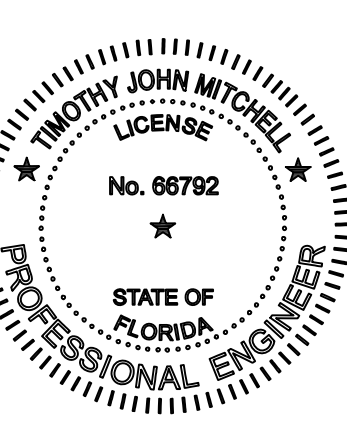
H. M. YONGE AND ASSOC. JOB# 21-174



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PHONE: (407) 322-1411  
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1234 AIRPORT ROAD, SUITE 126  
ORLANDO, FLORIDA 32841  
PHONE: (407) 939-1946  
FAX: (850) 837-2490

JENKINS ENGINEERING, INC.  
C.O.A. NO. 9927



REV	DATE	DESCRIPTION

**FT WALTON BEACH PARK**  
HOLLYWOOD BLVD.  
FT. WALTON BEACH • FLORIDA

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB: 21-174  
DATE: 02/29/23  
DESIGNED: TJM  
DRAWN: TJM

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SUMP PUMP SCHEDULE												
UNIT TAG	ELEVATOR SERVED	GPM	TDH	MOTOR HP	DISCHARGE	CONTROL	TYPE	ELECTRICAL				REMARKS
								VOLTS	HZ	PH	FLA	
SP#1	ELEVATOR SHAFT	50	14'	0.5	2"	FLOAT SWITCH	SUBMERSIBLE	120	60	1	8.0	NOTES 1, 2

1. BASIS OF DESIGN - STANCOR OIL MINDER SE50 THAT DOES NOT REQUIRE AN OIL HOLDING TANK.
2. PROVIDE WITH PUMP ON FLOAT, HIGH ALARM FLOAT, CONTROL PANEL AND POWER CABLE.

### PLUMBING SPECIFICATIONS:

SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR FIXTURE SPECIFICATIONS.

HW AND CW PIPING SHALL BE TYPE L COPPER. MAXIMUM HANGER SPACING IS 6 FT.

FLOOR DRAINS SHALL BE EQUAL TO ZURN Z415 WITH BRONZE GRAPE.

TRAP GUARDS/SEALS SHALL BE EQUAL TO ZURN Z107Z.

WATER PIPING SHALL BE INSULATED WITH 1" THICK HIGH DENSITY FIBERGLASS PIPE INSULATION WITH AN ALL SERVICE JACKET. MAXIMUM FLAME/SMOKE RATING IS 25/50.

WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC (DWV). MAXIMUM HANGER SPACING IS 4 FT.

### PLUMBING CODES AND STANDARDS:

FLORIDA BUILDING CODE - BUILDING (2023 ED WITH ALL SUPPLEMENTS)

FLORIDA BUILDING CODE - PLUMBING (2023 ED WITH ALL SUPPLEMENTS)

FAC 69A-3.012 - STANDARDS OF THE NFPA AND OTHER STANDARDS ADOPTED

MARK	FIXTURE	CONNECTIONS				MAX. FIXTURE FLOW RATE	DESCRIPTION
		WASTE	CW	HW (110°F)	HW (140°F)		
P-1	WATER CLOSET	4"	1"	--	--	1.6 (gpf)	KOHLER K-96053-SS 15-INCH HIGH TOP INLET WATER CLOSET WITH WHITE OPEN SEAT EQUAL TO CHURCH 255. FLUSH VALVE SHALL BE ZURN ZEM56000AV-IS-WS1 HARD WIRED FLUSH VALVE WITH 1.6 GPF, SPLIT RING SUPPORT AND BUMPER ON ANGLE STOP.
P-1A	WATER CLOSET (ADA)	4"	1"	--	--	1.6 (gpf)	KOHLER K-96057-SS 17-INCH HIGH TOP INLET WATER CLOSET WITH WHITE OPEN SEAT EQUAL TO CHURCH 255. FLUSH VALVE SHALL BE ZURN ZEM56000AV-IS-WS1 HARD WIRED FLUSH VALVE WITH 1.6 GPF, SPLIT RING SUPPORT AND BUMPER ON ANGLE STOP.
P-2	URINAL	2"	3/4"	--	--	1.0 (gpf)	KOHLER K-4904-ET TOP SPUD URINAL WITH ZURN ZEM56003AV-IS-WS1 HARD WIRED FLUSH VALVE WITH 1.0 GPF FLOW. PROVIDE ZURN Z-1222 FLOOR SUPPORTED CARRIER.
P-2A	URINAL (ADA)	2"	3/4"	--	--	1.0 (gpf)	KOHLER K-4904-ET TOP SPUD URINAL WITH ZURN ZEM56003AV-IS-WS1 HARD WIRED FLUSH VALVE WITH 1.0 GPF FLOW. PROVIDE ZURN Z-1222 FLOOR SUPPORTED CARRIER. SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
P-3	LAVATORY (WALL HUNG)	1-1/2"	1/2"	--	--	0.5 (gpm)	KOHLER K-2005 21"x18" WALL MOUNTED SINK WITH ZURN Z6930-XL HARD WIRED AUTOMATIC FAUCET W/ 0.5 GPM VANDAL RESISTANT FLOW CONTROL AND DECK COVER PLATE. PROVIDE 1-1/2", 17-GAUGE TAIL PIECE WITH P-TRAP, FLEXIBLE SUPPLY AND QUARTER TURN WALL STOP. PROVIDE ZURN Z-1231 CARRIER.
P-3A	LAVATORY (WALL HUNG, ADA)	1-1/2"	1/2"	--	--	0.5 (gpm)	KOHLER K-2005 21"x18" WALL MOUNTED SINK WITH ZURN Z6930-XL HARD WIRED AUTOMATIC FAUCET W/ 0.5 GPM VANDAL RESISTANT FLOW CONTROL AND DECK COVER PLATE. PROVIDE 1-1/2", 17-GAUGE TAIL PIECE WITH P-TRAP, FLEXIBLE SUPPLY AND QUARTER TURN WALL STOP. PROVIDE ZURN Z-1231 CARRIER.
P-4	JANITOR SINK	3"	1/2"	--	1/2"	1.5 (gpm)	FIAT TERRAZZO TSB300 32"x32"x12" SINK WITH STAINLESS STEEL CURB CAPS. PROVIDE 1453BB STRAINER, 3" P-TRAP AND 830-AA SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAUL HOOK AND 832AA HOSE/HOSE BRACKET. ALSO INCLUDE 889CC MOP HANGER BRACKET.
P-5	COUNTER MOUNTED HAND SINK	1-1/2"	1/2"	1/2"	--	0.5 (gpm)	JUST SLX-2017-A-GR 20"x17"x10.5" DEEP STAINLESS STEEL SINK WITH T&S BRASS B-2685-4-122X RIGID GOOSENECK FAUCET WITH WRIST BLADES AND GRID STRAINER. PROVIDE 1-1/2", 17-GAUGE CHROME PLATED TAIL PIECE, P-TRAP, WALL STOPS AND FLEXIBLE SUPPLIES EQUAL TO EASTMAN.
P-6	TWO-COMP. SINK	1-1/2"	1/2"	1/2"	--	0.5 (gpm)	JUST DLX-1933-A-GR 33"x19"x10.5" DEEP STAINLESS STEEL 2-COMPARTMENT SINK WITH JUST J-901 DECK MOUNTED FAUCET AND SPRAY. PROVIDE TWO JUST J-35 STRAINERS WITH DIRECT CONNECTION OUTLETS, 1-1/2", 17-GAUGE CHROME PLATED P-TRAP, WALL STOPS AND FLEXIBLE SUPPLIES EQUAL TO EASTMAN.
P-7	SHOWER (ADA)	2"	1/2"	1/2"	--	1.5 (gpm)	SYMMONS 1-117-FS-1.5 PRESSURE BALANCING ANTI-SCALD SHOWER VALVE, SHOWER HEAD, DIVERTER VALVE, HANDHELD SHOWER HEAD, 60" HOSE AND 2" IPS DRAIN WITH 5" DIAMETER CHROME PLATED STRAINER EQUAL TO ZURN ZN-415.
P-8	HI/LOW WATER COOLER (ADA & VANDAL RESIST.)	1-1/2"	1/2"	--	--	EXEMPT	HALSEY TAYLOR HTHB-HYRCRN8BL-WF HEAVY DUTY STAINLESS STEEL, VANDAL RESISTANT, HI/LOW WATER COOLER WITH BOTTLE FILLING STATION, PUSH BUTTONS, 1-1/2" WASTE ARMS, STAINLESS STEEL APRON, VANDAL RESISTANT SCREW KIT AND ZURN Z1225-BL CARRIER SYSTEM
P-2	ICE MAKER VALVE BOX	--	3/4"	--	--	EXEMPT	GUY GRAY BM875 VALVE BOX WITH 1/2" FIP INLET X 1/4" O.D. OUTLET COMPRESSION ANGLE VALVE.

NOTE: ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS INDICATED OTHERWISE.

PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURES AND ROUGHIN REQUIREMENTS WITH EQUIPMENT SUPPLIER.

MIXING VALVE SCHEDULE						
MARK	INLET PIPE SIZE	OUTLET PIPE SIZE	DESIGN FLOW (GPM)	MAX. DIFF. PRESS.	METERED TEMPERATURE	REMARKS
MV#1	1/2"	1/2"	1.0	5 PSI	80°	NOTES 1, 2, 3
MV#2	1/2"	1/2"	1.0	5 PSI	80°	NOTES 1, 2, 3

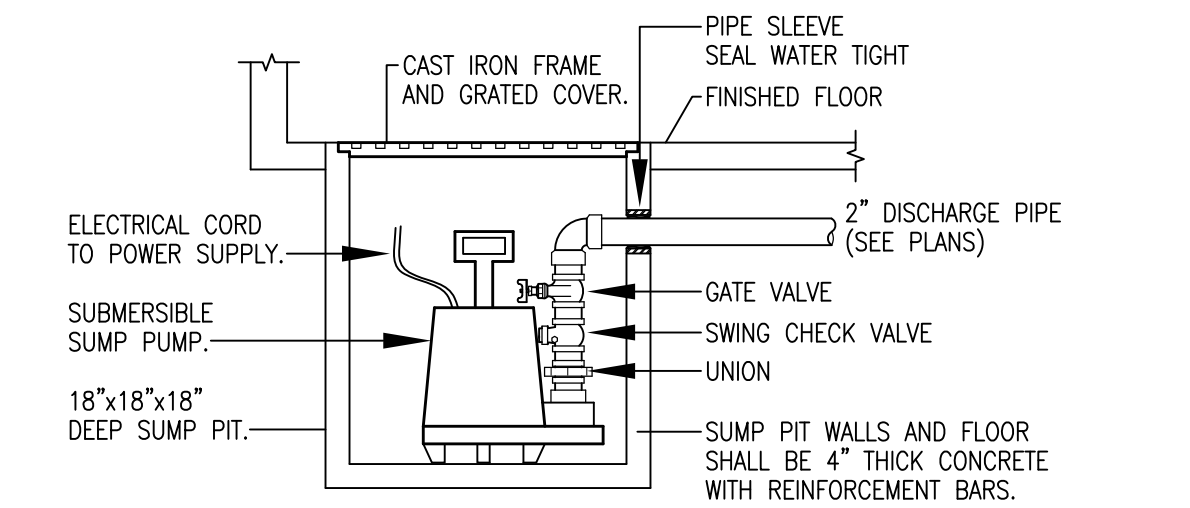
- NOTES:
1. MINIMUM FLOW SHALL BE 0.5 GPM.
  2. CONTRACTOR SHALL PIPE VALVE PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.
  3. MIXING VALVE SHALL FULLY COMPLY WITH ASSE 1070 STANDARD FOR TEMPERATURE CONTROL.

WATER HEATER SCHEDULE						
MARK	CAPACITY (GALLONS)	ELECTRICAL DATA			REMARKS	
		VOLTS	PHASE	HZ KW		
WH#1	40	208	1	60 4.5	NOTES 1, 2, 3	
WH#2	40	208	1	60 4.5	NOTES 1, 2, 3	

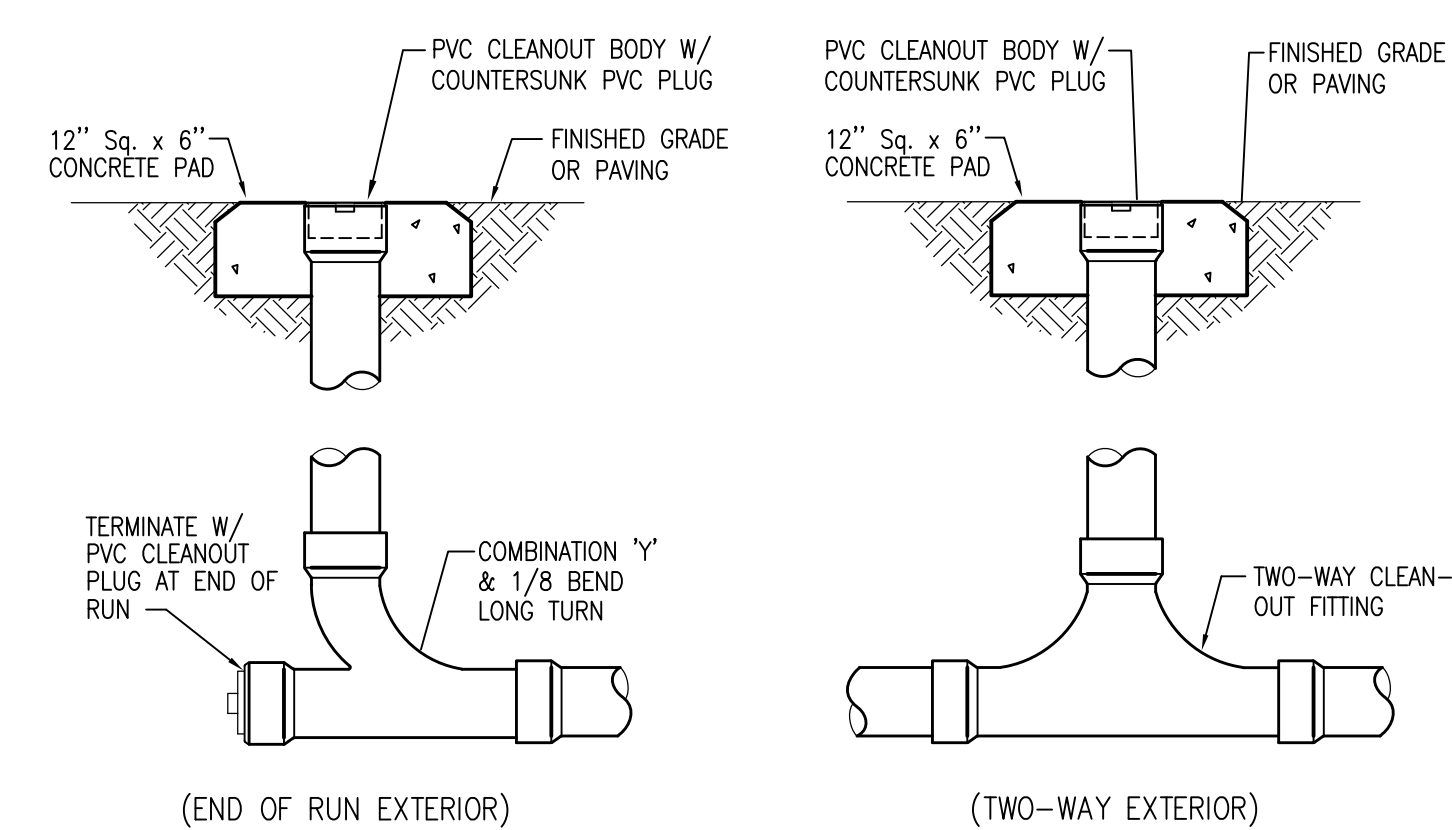
- NOTES:
1. TWO NON-SIMULTANEOUS HEATING ELEMENTS.
  2. WATER HEATER SHALL BE ASHRAE 90.1-2013 COMPLIANT.
  3. SET OUTLET TEMPERATURE TO 140°F.

PLUMBING LEGEND	
---	COLD WATER PIPING
----	HOT WATER PIPING
-----	HOT WATER RETURN PIPING
-----	WASTE PIPING
-----	VENT PIPING
⊘	BALL VALVE
⊘	CHECK VALVE
⊘	BALANCING VALVE
⊘	P-TRAP
⊘	CONNECT NEW TO EXISTING
CO	CLEANOUT
CW	COLD WATER
ECO	EXTERIOR CLEANOUT
EX	EXISTING
FCO	FLOOR CLEANOUT
FPHB	FREEZE PROOF HOSE BIBB
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
MV	MIXING VALVE
WCO	WALL CLEANOUT
WH	WATER HEATER

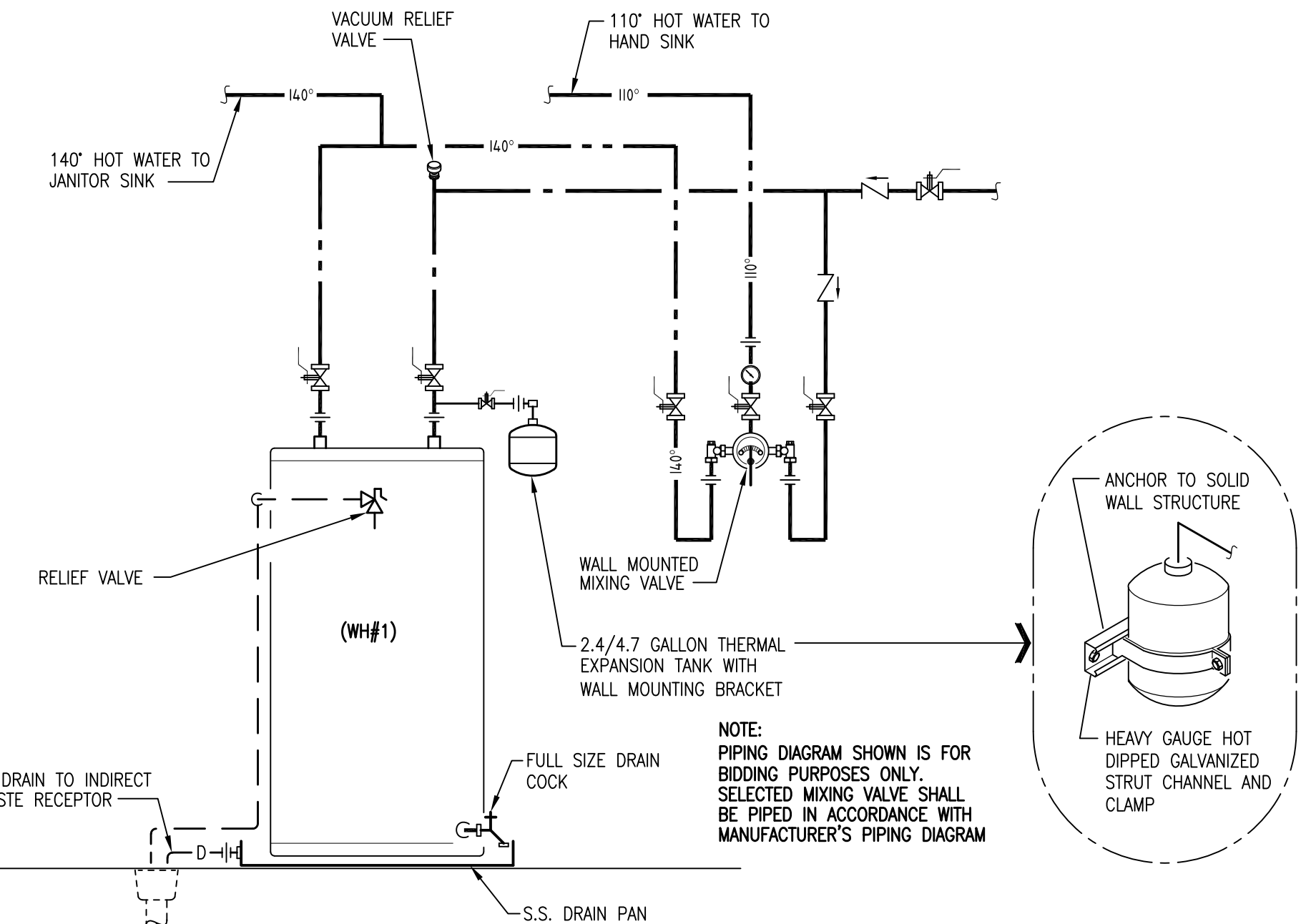
WATER HAMMER ARRESTOR		
PPP SIZE	FIXTURE UNITS	CROSS REF PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/4"	61-113	D
1-1/2"	114-154	E
2"	155-330	F



SUMP PUMP PIT DETAIL  
NOT TO SCALE



TYPICAL EXTERIOR CLEANOUT DETAILS  
NO SCALE



ELECTRIC WATER HEATER DETAIL  
NO SCALE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TIMOTHY J. MITCHELL, P.E. ON FEBRUARY 29, 2024.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**H.M. YONGE & ASSOCIATES, INC.**  
CONSULTING ENGINEERS // EST. 1988

51 EAST GREGORY STREET  
PENSACOLA, FLORIDA 32502  
PHONE: (850)334-2661

CERTIFICATION OF AUTHORIZATION No. 5254  
MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093  
MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG. NO. 86792  
ELECTRICAL ENGINEER: ADON T. YARGHESE, P.E. FLORIDA REG. NO. 76319

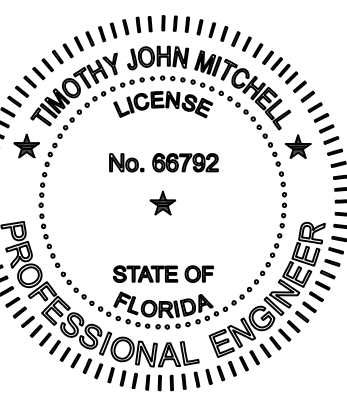
H. M. YONGE AND ASSOC. JOB# 21-174

**JENKINS ENGINEERING, INC.**

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PHONE: (850) 292-1411  
FAX: (850) 837-2450

JECIVIL.COM  
C.O.A. NO. 9927



REV	DATE	DESCRIPTION

**FT WALTON BEACH PARK**  
HOLLYWOOD BLVD.  
FT. WALTON BEACH • FLORIDA

NOT VALID UNLESS BEARING ENGINEER'S ORIGINAL SIGNATURE

JOB:  
DATE: 02/29/23  
DESIGNED: TJM  
DRAWN: TJM

BAR IS ONE INCH ON ORIGINAL  
IF NOT ONE INCH ON THIS SHEET  
ADJUST SCALES ACCORDINGLY

DRAWING NUMBER

SHEET NUMBER  
P4.1