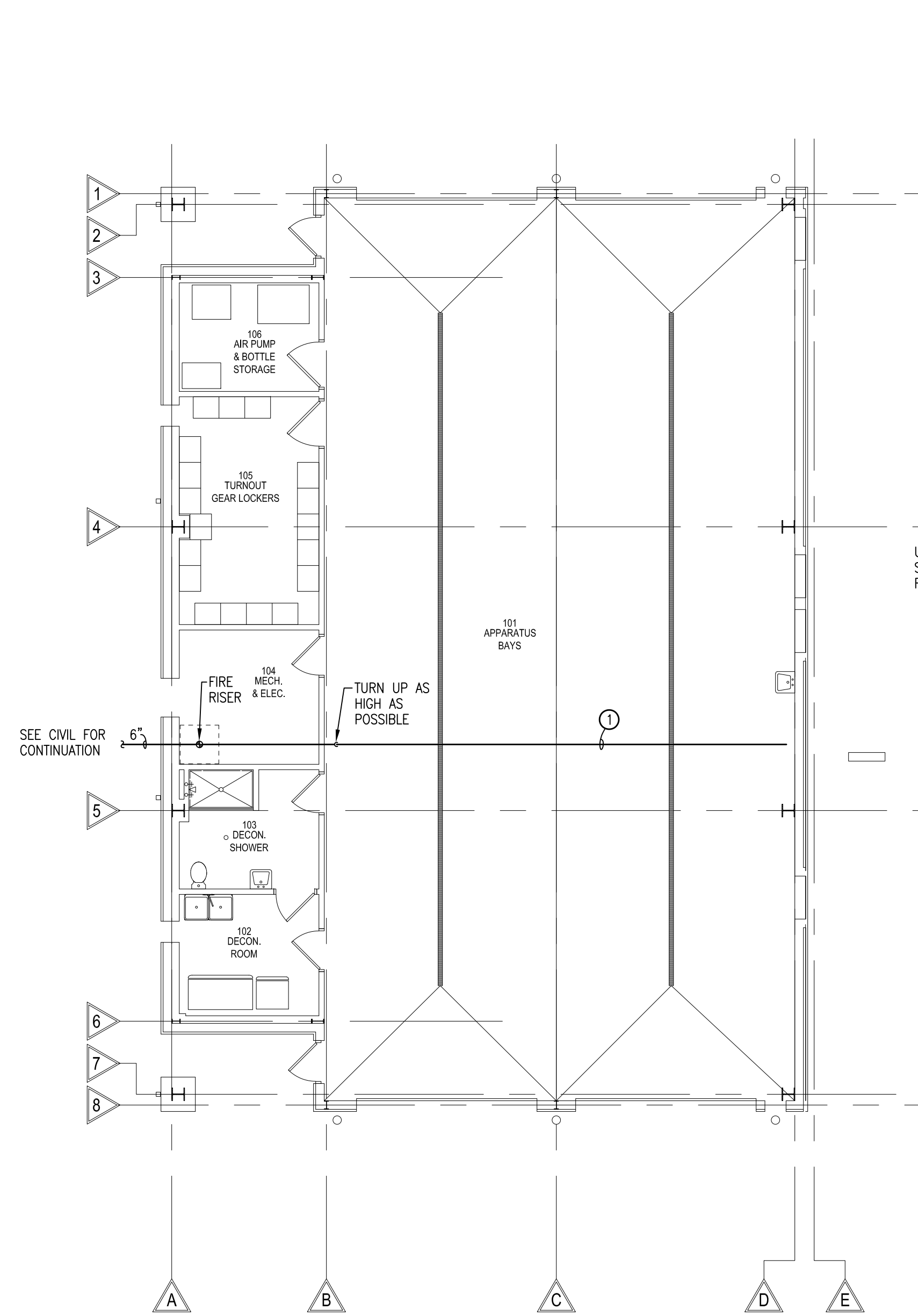


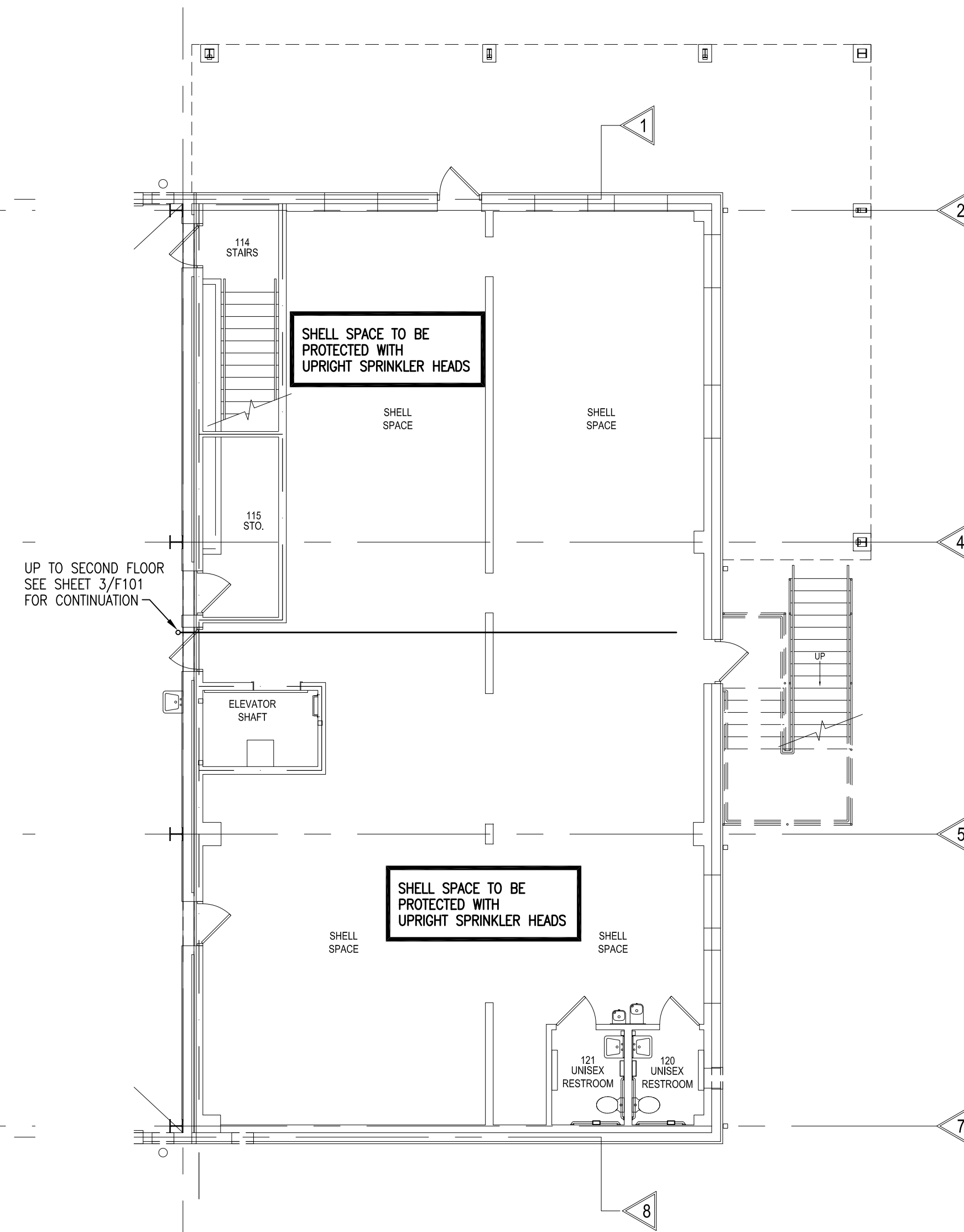
Revision	Description

KEY NOTES:

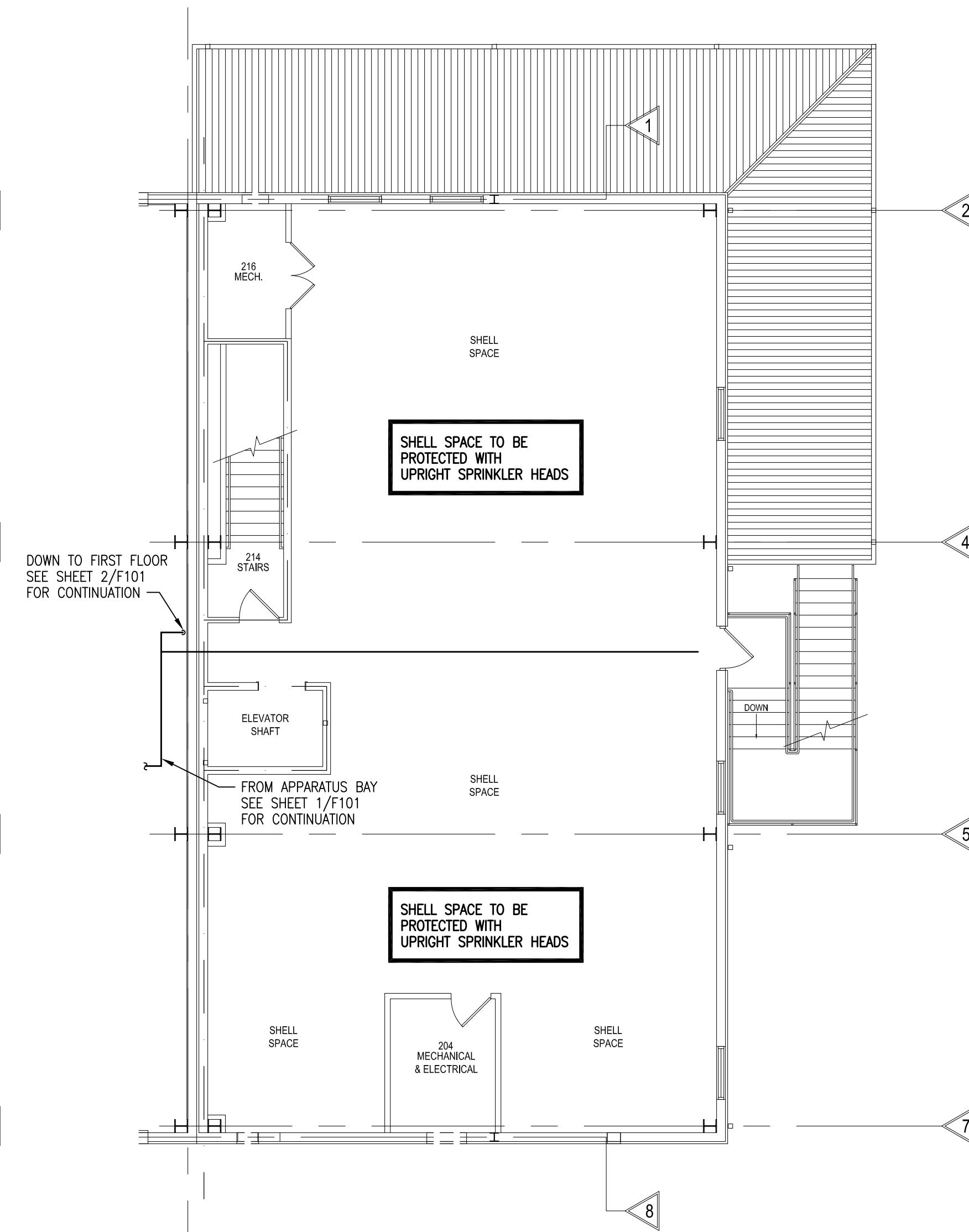
- ① FOLLOW SLOPE OF ROOF UP TO ABOVE SECOND FLOOR CEILING ELEVATION.



1 F101 FIRE PROTECTION FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"

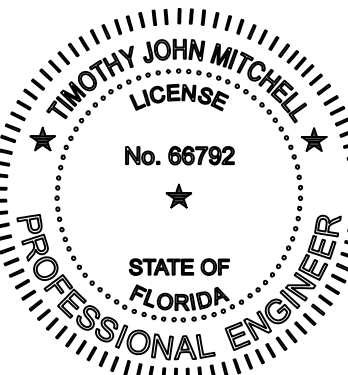


2 F101 FIRE PROTECTION FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 F101 FIRE PROTECTION SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"

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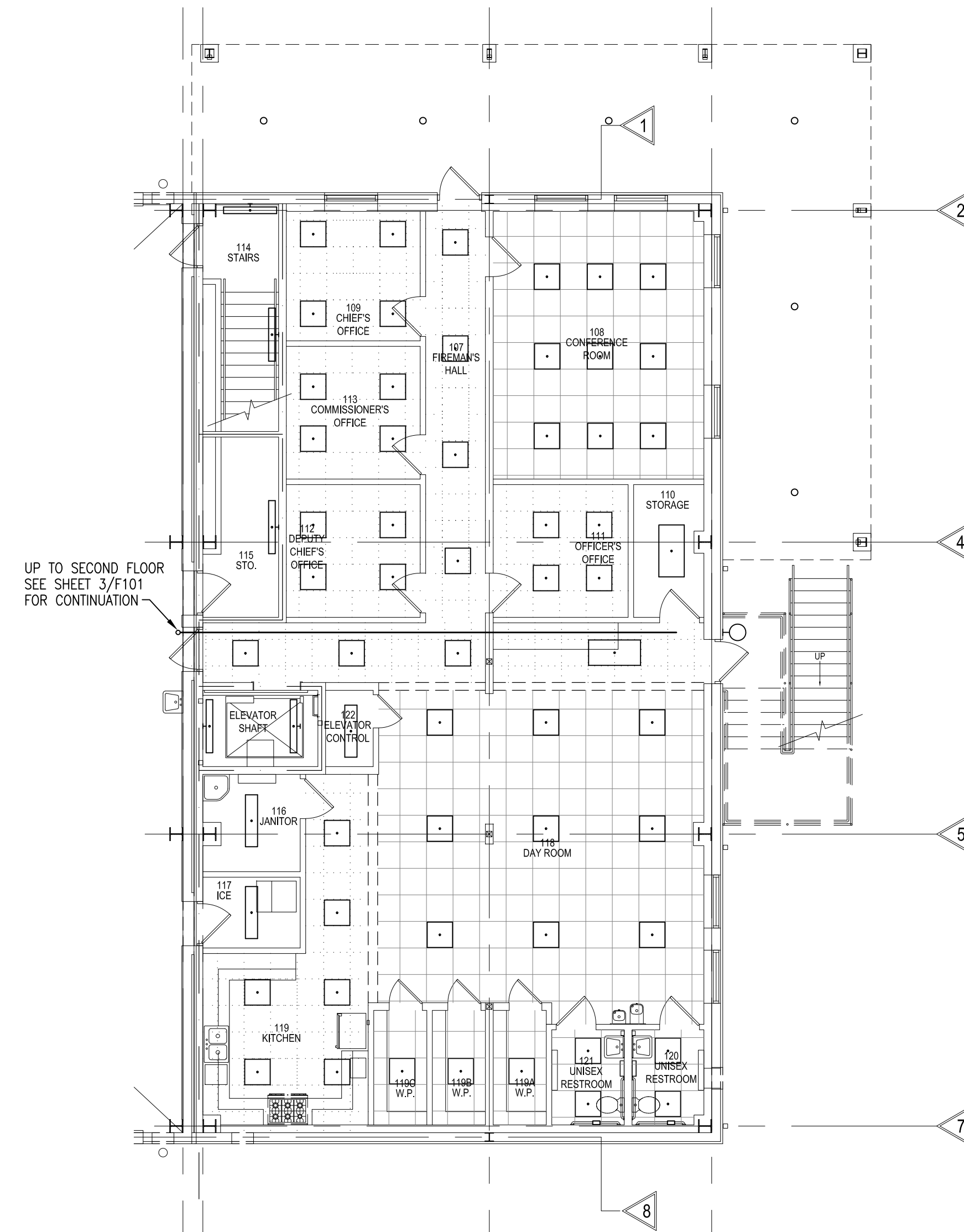
H.M. YONGE & ASSOCIATES, INC.
 CONSULTING ENGINEERS // EST. 1988
 51 EAST GREGORY STREET
 PENSACOLA, FLORIDA 32502
 PHONE: (850)334-2661

CERTIFICATION OF AUTHORIZATION No. 5264
 MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
 MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792
 ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319

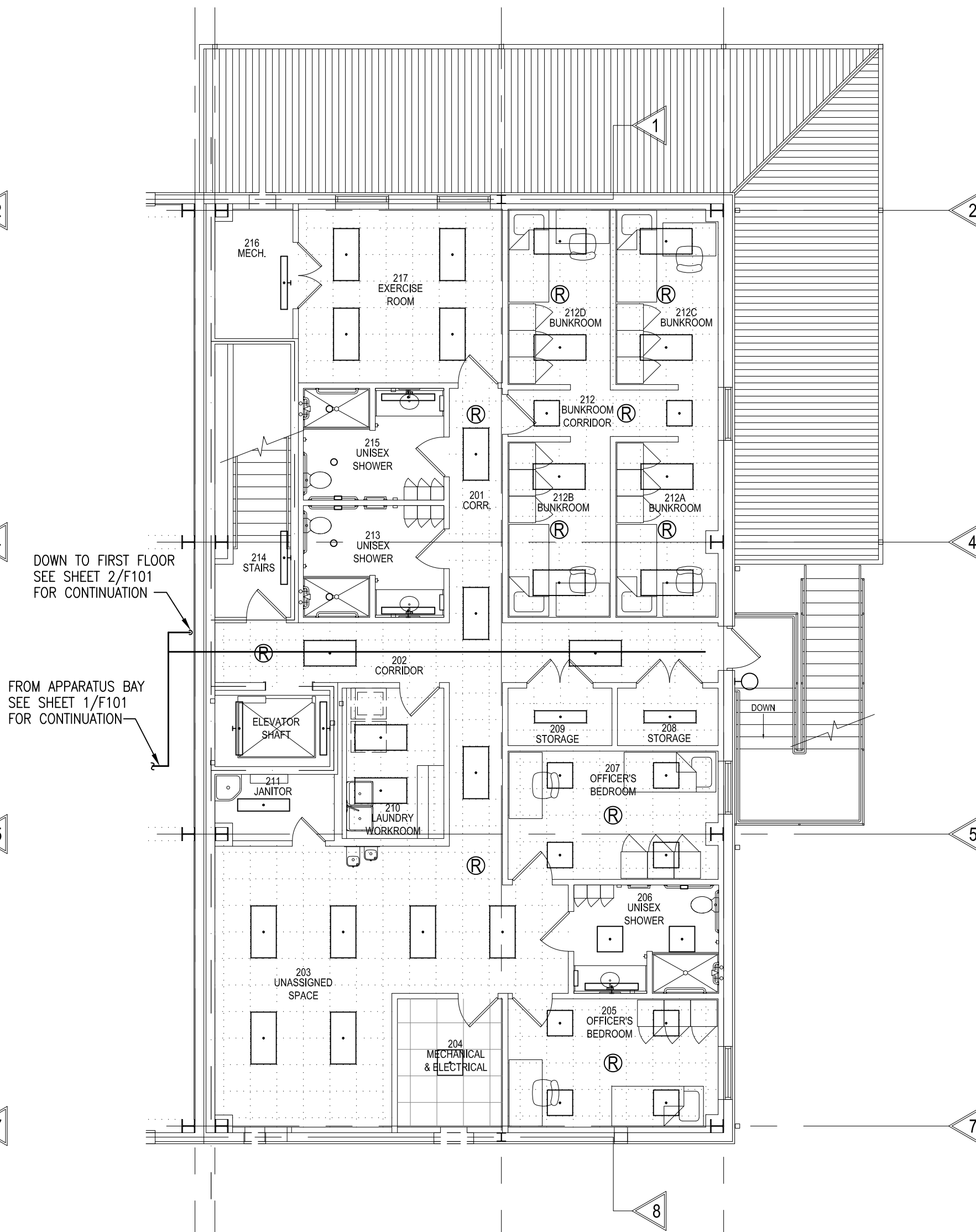
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Drawn:	TJM
Checked:	TJM

F101
 SHEET #

Revision	

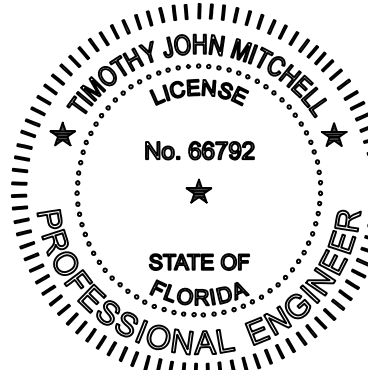


1 FIRE PROTECTION FIRST FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"



2 FIRE PROTECTION SECOND FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"

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 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. 66792
 ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319

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Checked:	TJM
F102	
SHEET #	

CLASSIFICATION OF HAZARD OCCUPANCIES:

LIGHT HAZARD - ENTIRE BUILDING UNLESS NOTED OTHERWISE

ORDINARY HAZARD GROUP 1 - STORAGE, MECHANICAL, ELECTRICAL AND APPARATUS BAY

SPRINKLER SYSTEM DESIGN APPROACH CRITERIA:

OFFICE/LIGHT HAZARD - WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .10 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH 225 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM. MINIMUM SPRINKLER HEAD RATING IS 155°F. HOSE STREAM DEMAND IS 100 GPM.

ORDINARY HAZARD GROUP 1 - WET PIPE FIRE SPRINKLER SYSTEM WITH A DENSITY OF .15 GPM OVER A MINIMUM REMOTE AREA OF 1500 SQUARE FEET WITH 130 SQUARE FEET OF COVERAGE PER SPRINKLER HEAD MAXIMUM. MINIMUM SPRINKLER HEAD RATING IS 155°F. HOSE STREAM DEMAND IS 250 GPM.

ALL SPRINKLER HEADS IN CEILINGS TO BE SEMI-RECESSED, QUICK RESPONSE TYPE.

ALL SPRINKLER HEADS IN APPARATUS BAY TO BE UPRIGHT, QUICK RESPONSE TYPE WITH BASKET GUARDS.

ALL SPRINKLER HEADS IN SHELL SPACES TO BE UPRIGHT, QUICK RESPONSE TYPE WITH BASKET GUARDS.

NO MICROBIAL INDUCED CORROSION (MIC) IS ANTICIPATED.

SPRINKLER DESIGN SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016

FIRE PROTECTION GENERAL NOTES:

- ALL SPRINKLER PIPING IS TO BE ROUTED THROUGH AND SUPPORTED FROM THE ROOF TRUSSES AND JOISTS.
- DO NOT RUN SPRINKLER PIPING UNDER ROOF JOISTS IN AREAS WITH LOW FLAT ROOFS. PIPING MUST BE RUN THROUGH THE JOISTS.
- NO PIPING SHALL BE SUPPORTED DIRECTLY FROM THE ROOF DECK SYSTEM. ALL HANGERS SHALL ATTACHED TO THE STRUCTURE.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE SCOPE OF THE BASE BID AND BID ALTERNATES.

WATER FLOW TEST DATA

WATER FLOW TEST DATA WAS CONDUCTED BY THE HOLT FIRE DISTRICT AND IS FOR BIDDING PURPOSES ONLY. THE FIRE SPRINKLER CONTRACTOR SHALL CONDUCT A FLOW TEST PRIOR TO COMPLETING THE FINAL HYDRAULIC CALCULATIONS.

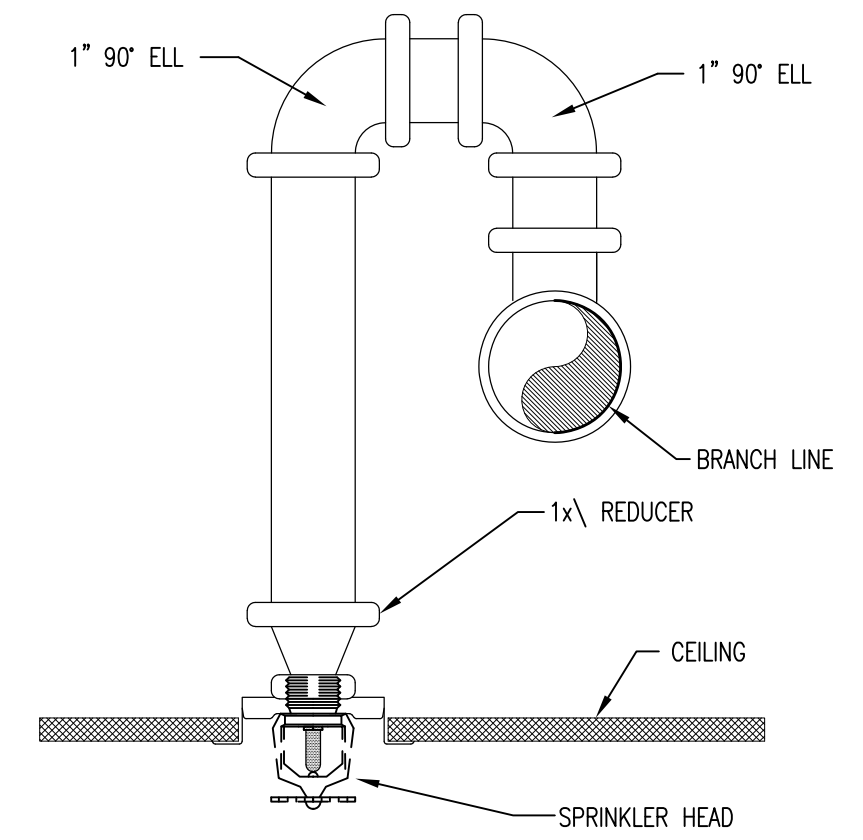
DATE: 04/26/2023

LOCATION: HYDRANT 044/W39 (4662 SUMMERTIME DR)

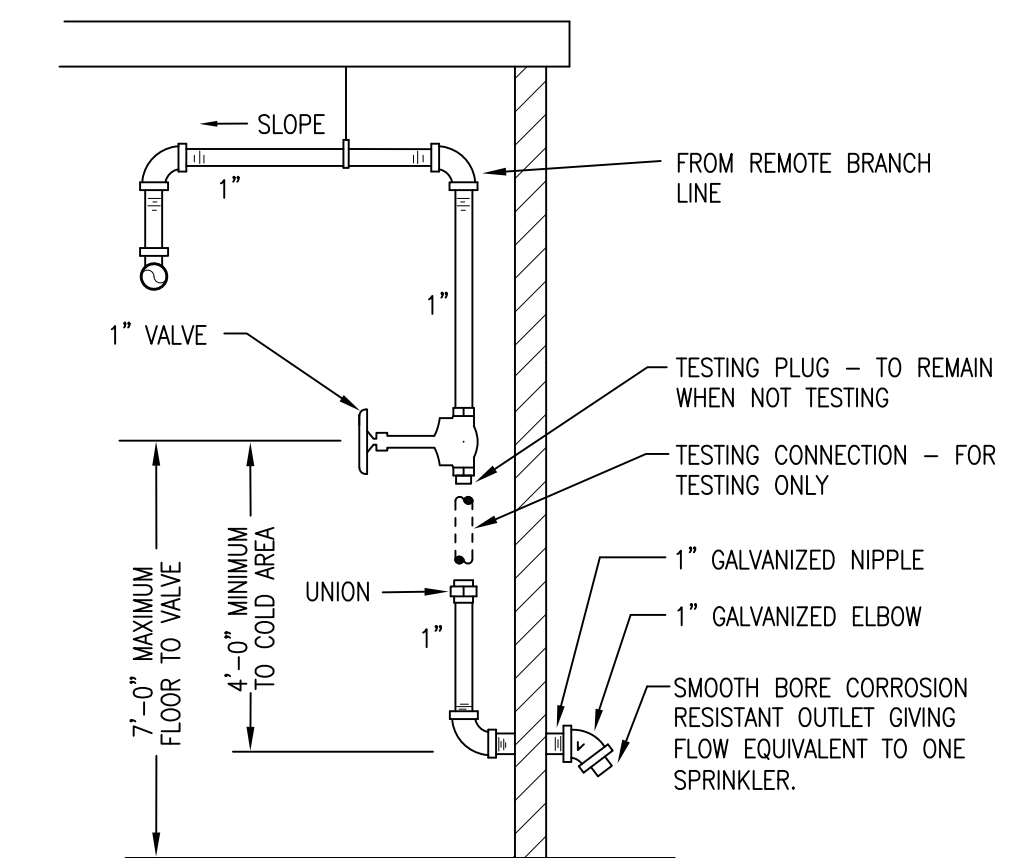
STATIC PRESSURE: 50 PSI

RESIDUAL PRESSURE: 48 PSI

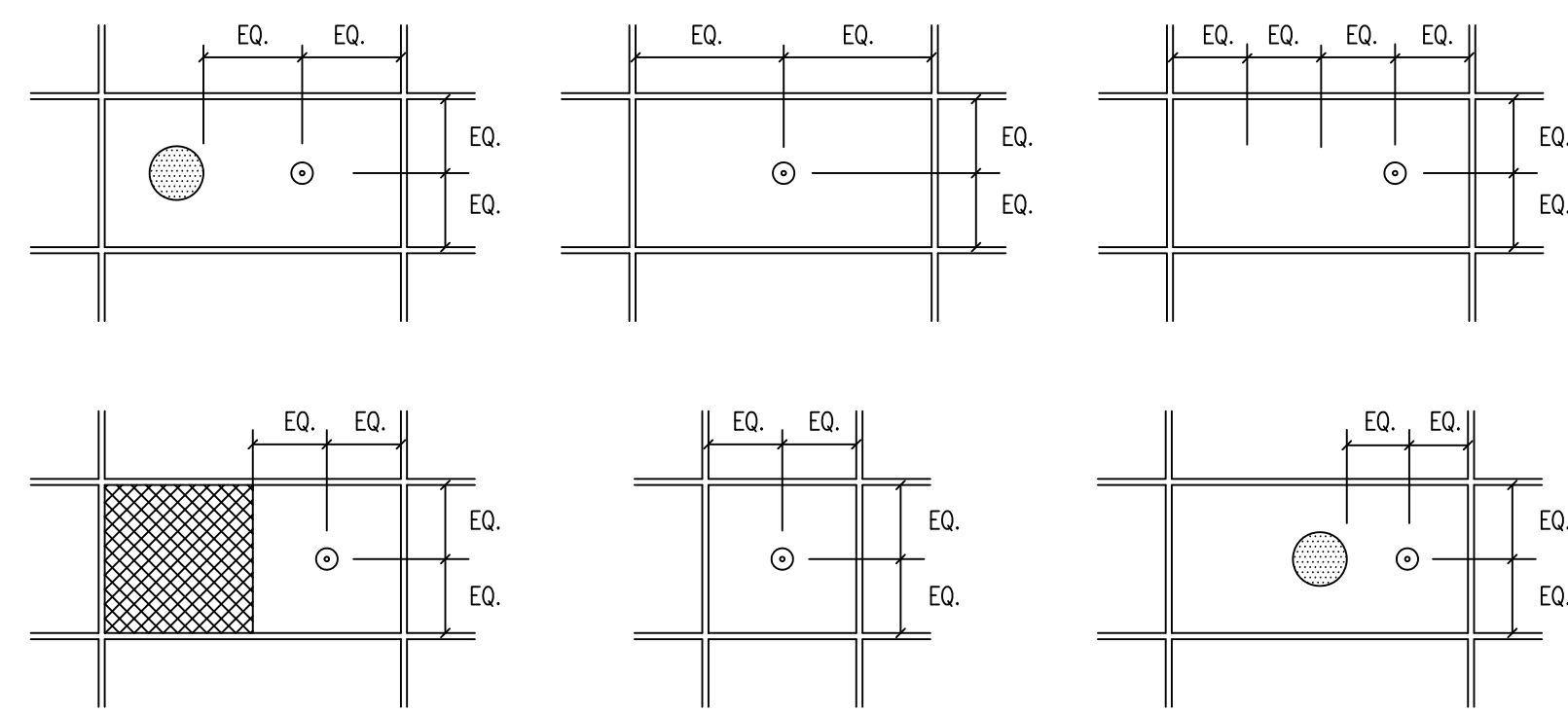
WATER FLOW: 787 GPM



TYPICAL RETURN BEND
NOT TO SCALE



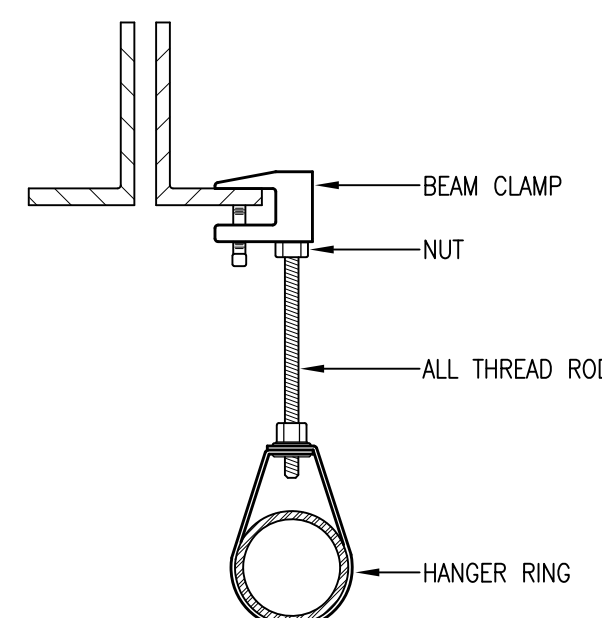
INSPECTORS TEST CONNECTION DETAIL
NOT TO SCALE



NOTES:
SPRINKLER HEAD SHALL NOT BE INSTALLED WITHIN 1'-0" OF EDGE OF SUPPLY DIFFUSER

- DIFFUSER OR LIGHT FIXTURE
- SPEAKER OR OTHER DEVICE
- SPRINKLER HEAD

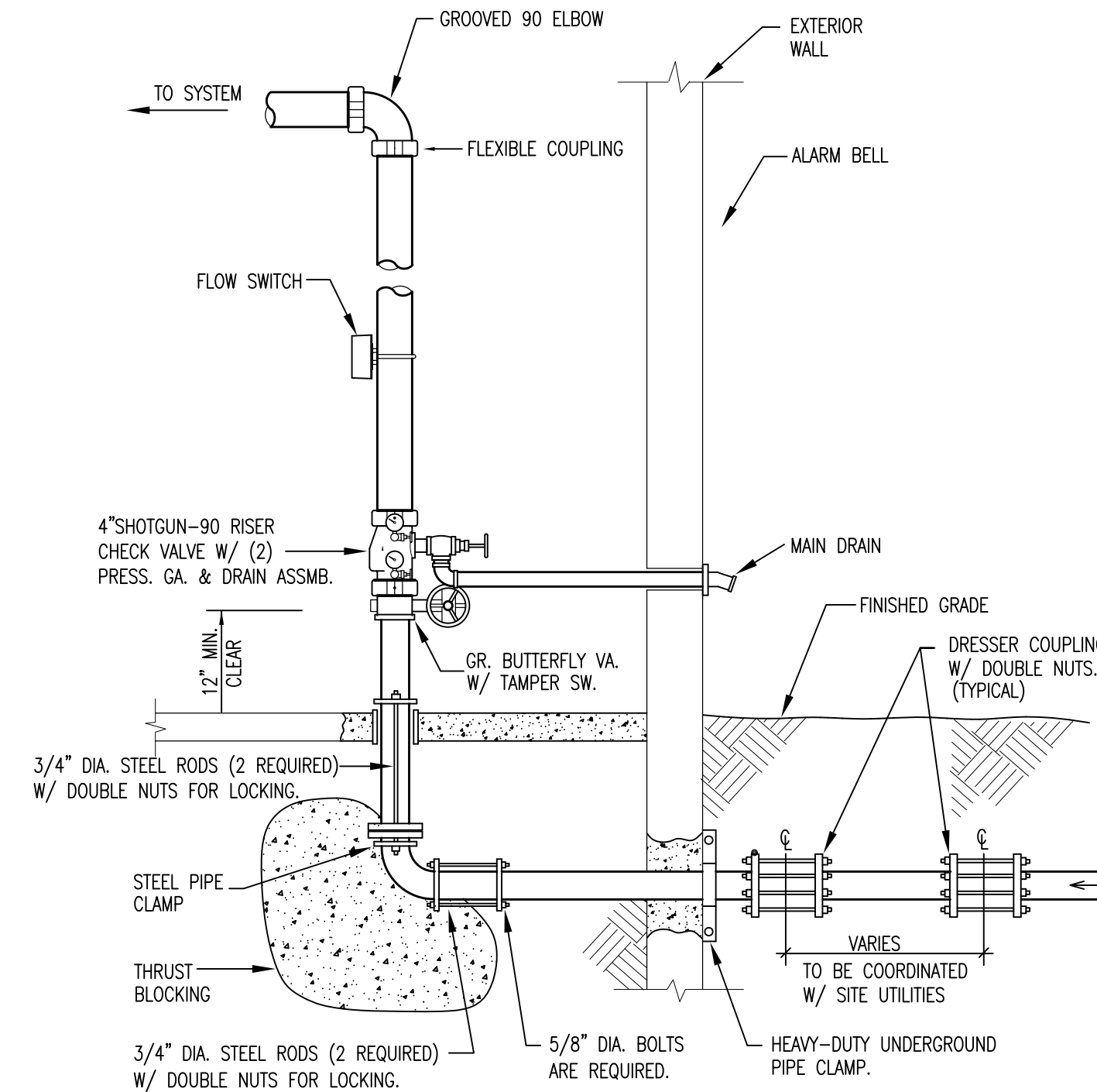
SPRINKLER HEAD MOUNTING DETAIL
NOT TO SCALE



PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING.

THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.

BEAM HANGER DETAIL
NOT TO SCALE



NOTE: THE FIRE DEPARTMENT CONNECTION IS FREE STANDING. SEE CIVIL DRAWINGS FOR LOCATION.

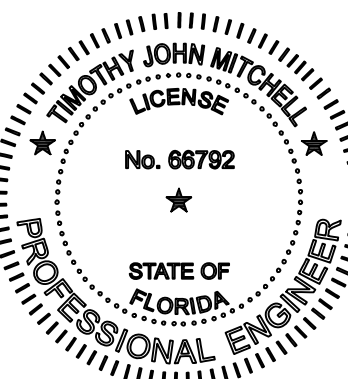
WET PIPE FIRE RISER DETAIL
NOT TO SCALE

TOWNES + ARCHITECTS, P.A.
ARCHITECTS - PLANNERS
2421 NORTH 12th AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

FIRE PROTECTION
LEGEND AND DETAILS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



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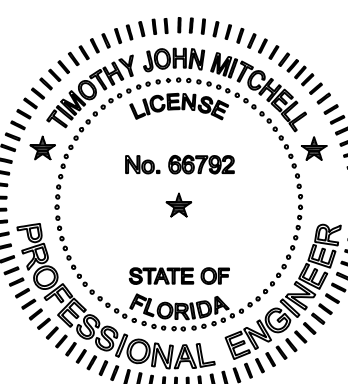
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CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)334-2661

CERTIFICATION OF AUTHORIZATION No. 5254
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MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792
ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319

H. M. YONGE AND ASSOC. JOB# 23-005

CONSTRUCTION DOCS	
Scale:	AS NOTED
Date:	12.18.2023
Drawn:	TJM
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F201	
SHEET #	

Revision	Description

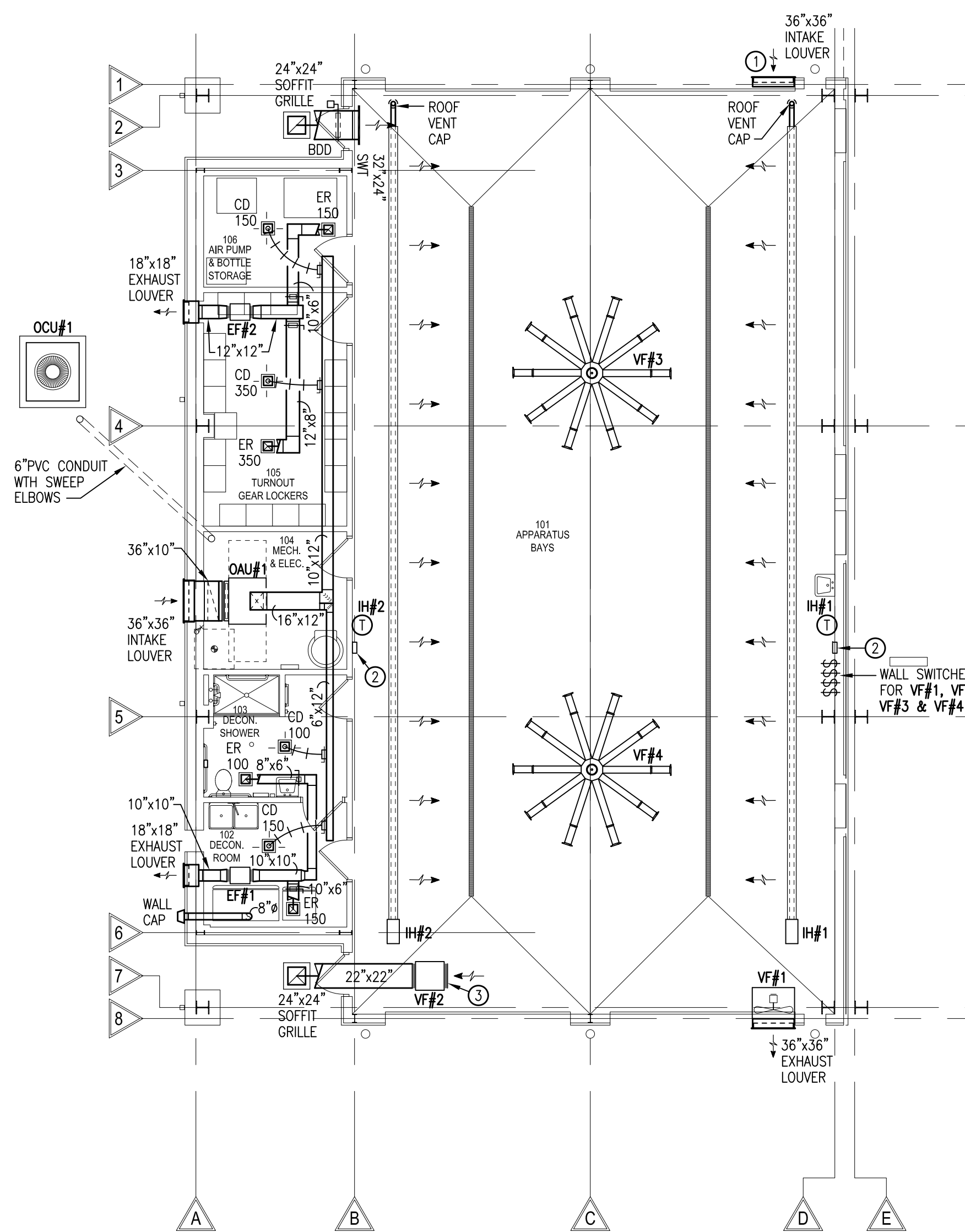


HVAC GENERAL NOTES:

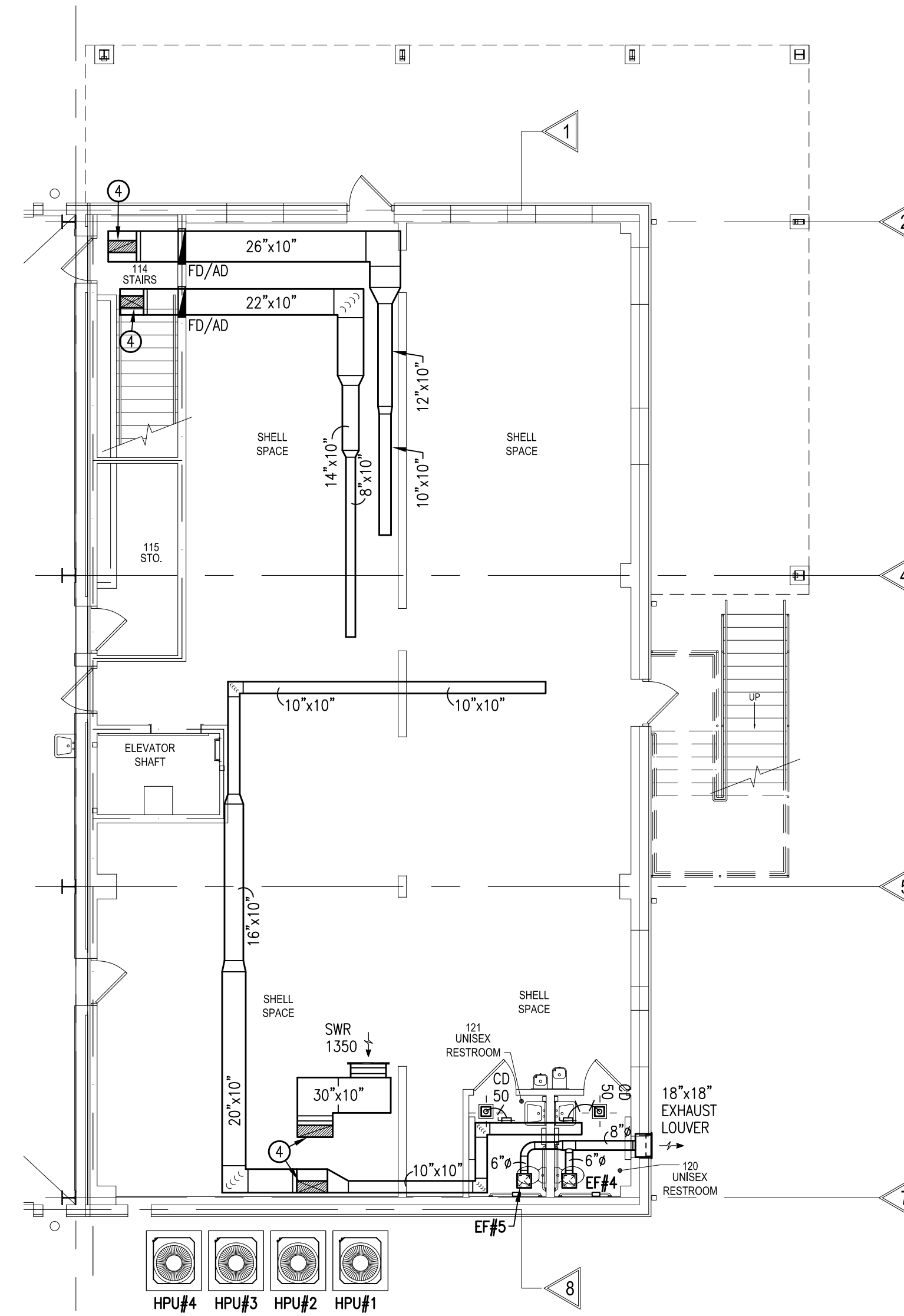
1. ALL GROUND MOUNTED EQUIPMENT SHALL BE BOLTED TO 4" HIGH HOUSEKEEPING PADS. INCLUDE 1" VIBRATION ISOLATION PADS UNDER ALL UNITS. BOLT UNIT WITH A MINIMUM OF TWO BOLTS PER SIDE.

KEY NOTES:

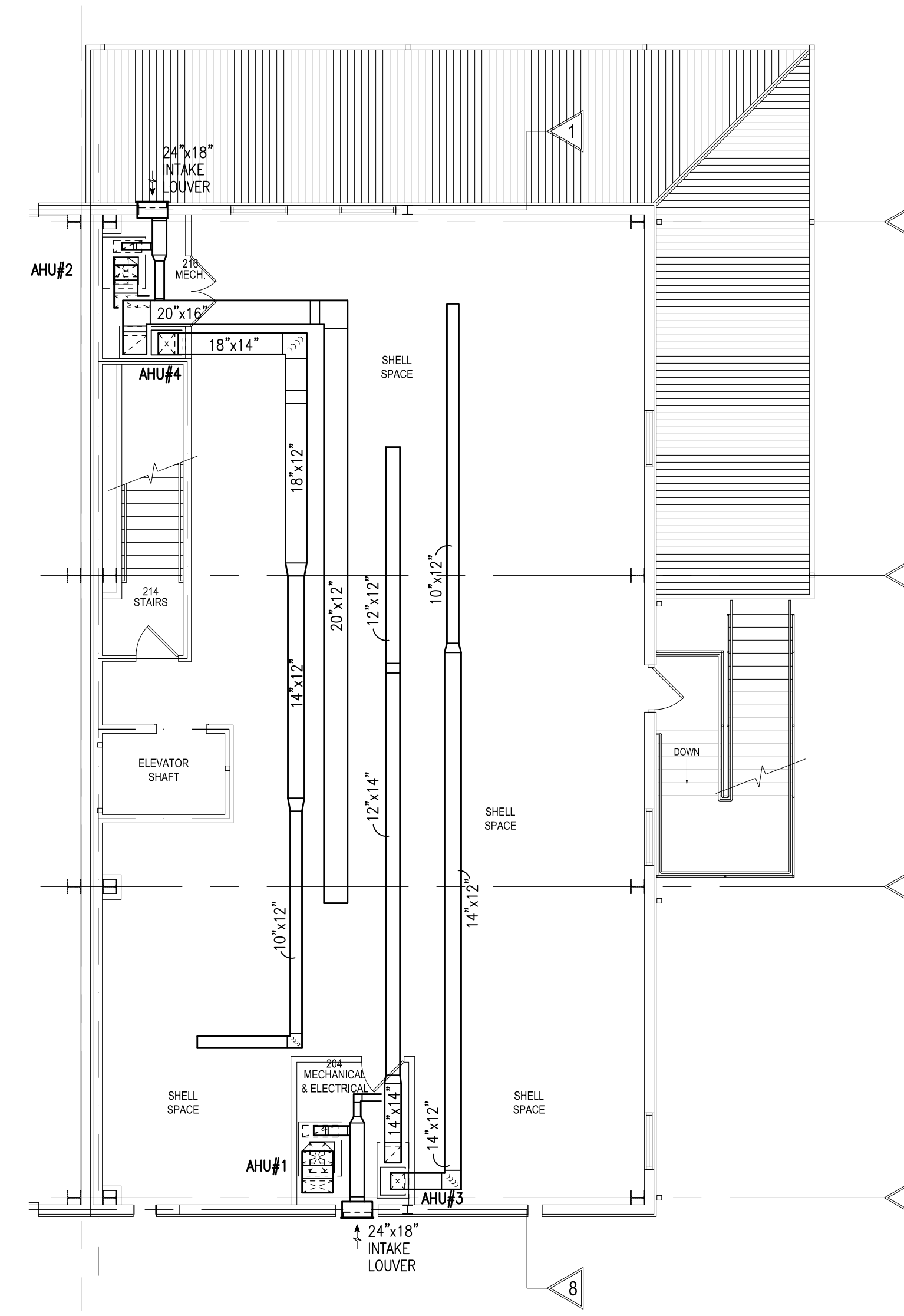
1. INTAKE LOUVER WITH COUNTERBALANCE GRAVITY DAMPER. THE LOUVER, DAMPER AND SLEEVE SHALL BE WITHIN THE WALL THICKNESS WITH NOTHING EXTENDING INTO THE APPARATUS BAY.
2. CARBON MONOXIDE SENSOR SHALL OVERRIDE THE VENTILATION FAN SWITCHES TO ACTIVATE THE VF#1 AND VF#2 WHEN CARBON MONOXIDE IS DETECTED ABOVE 30 PPM. SEE ELECTRICAL FOR INFORMATION ON RELAYS, SWITCHES AND WIRING.
3. COVER OPEN INLET/OUTLET OF THE FAN WITH EXPANDED METAL GRATING.
4. FIRE DAMPER WITH ACCESS DOOR AT FLOOR PENETRATION.



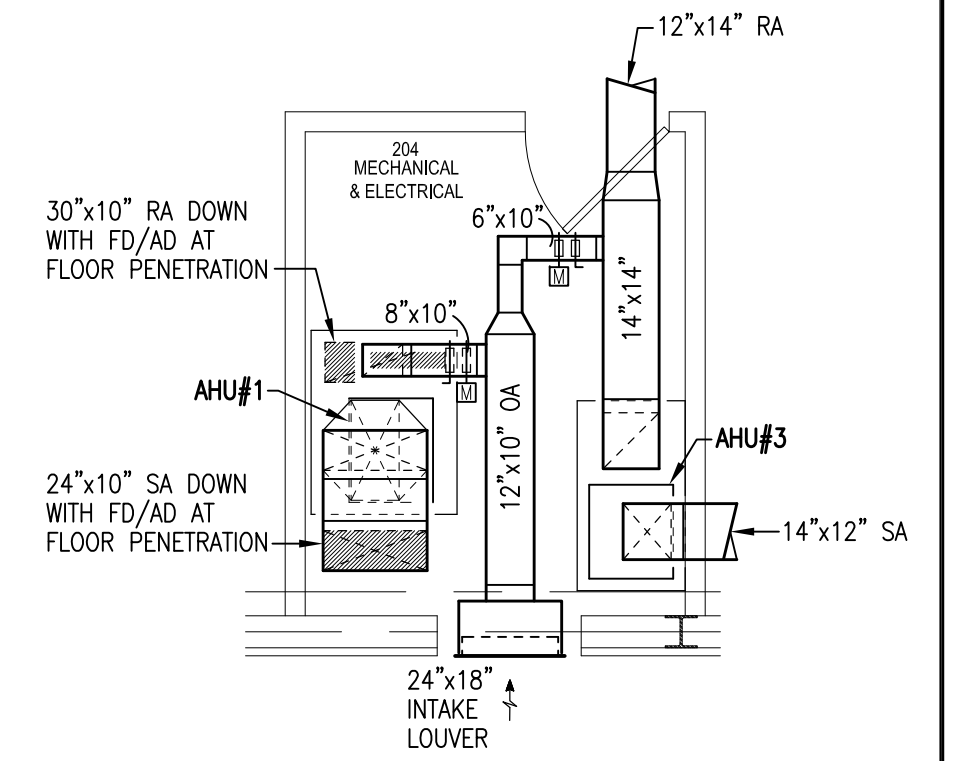
1 HVAC FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"



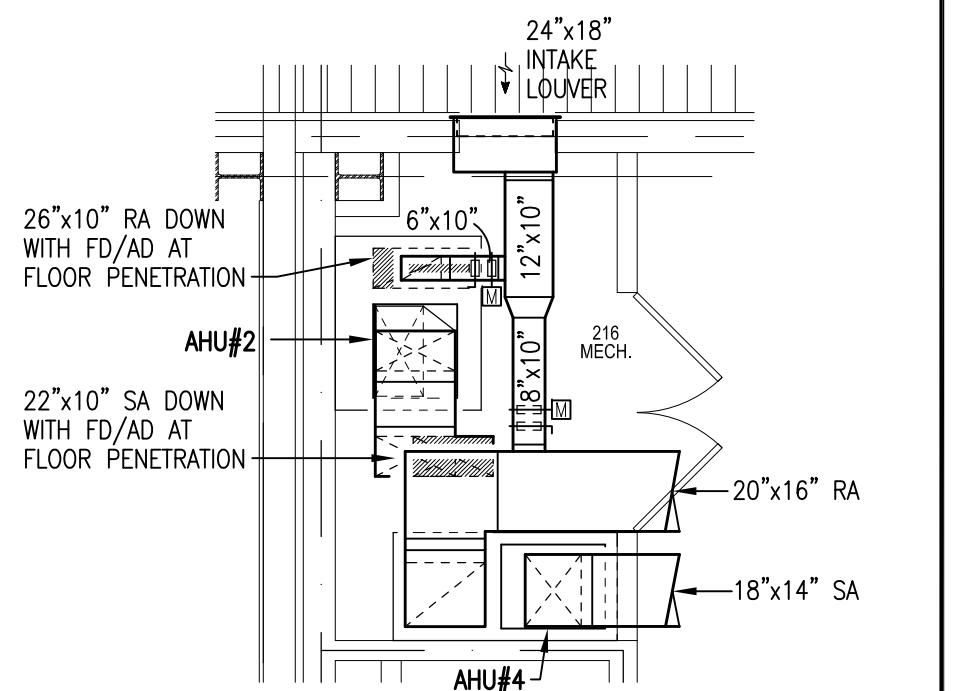
2 HVAC FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 HVAC SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



4 ENLARGED MECHANICAL - 204
 GRAPHIC SCALE



5 ENLARGED MECHANICAL - 216
 GRAPHIC SCALE

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CERTIFICATION OF AUTHORIZATION No. 5264
 MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
 MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792
 ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319

H. M. YONGE AND ASSOC. JOB# 23-005

CONSTRUCTION DOCS
 Scale: AS NOTED
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M101
 SHEET #

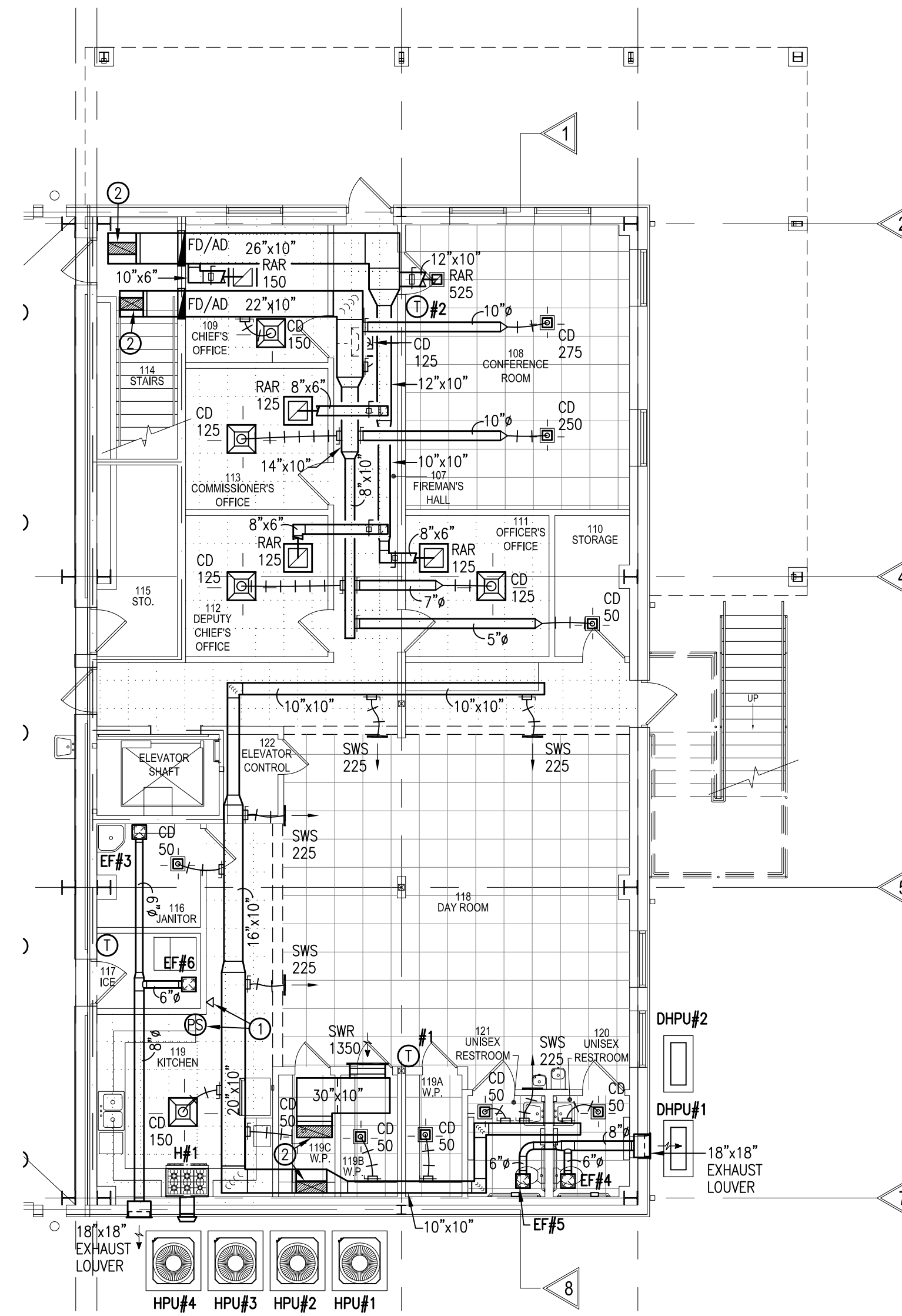
Revision	

HVAC GENERAL NOTES:

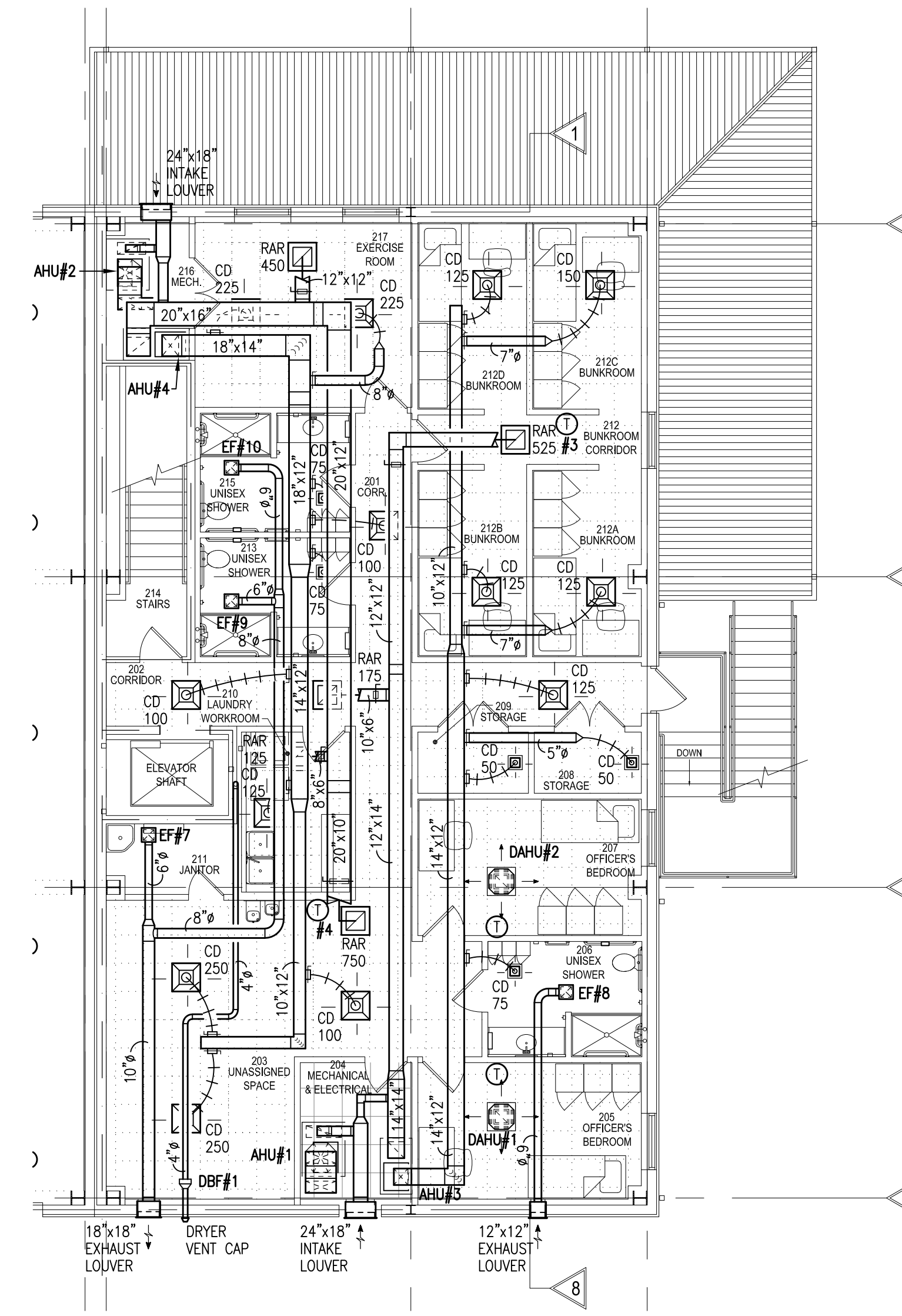
1. ALL GROUND MOUNTED EQUIPMENT SHALL BE BOLTED TO 4" HIGH HOUSEKEEPING PADS. INCLUDE 1" VIBRATION ISOLATION PADS UNDER ALL UNITS. BOLT UNIT WITH A MINIMUM OF TWO BOLTS PER SIDE.

KEY NOTES:

- ① PULL STATION AND HORN STROBE SUPPLIED WITH RESIDENTIAL RANGE HOOD.
- ② FIRE DAMPER WITH ACCESS DOOR AT FLOOR PENETRATION.

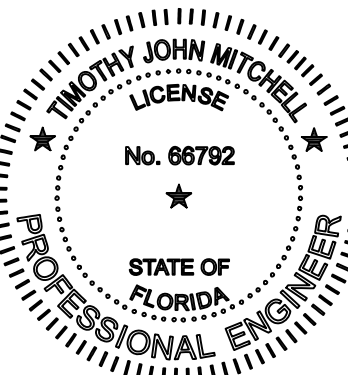


1 HVAC FIRST FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"



2 HVAC SECOND FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"

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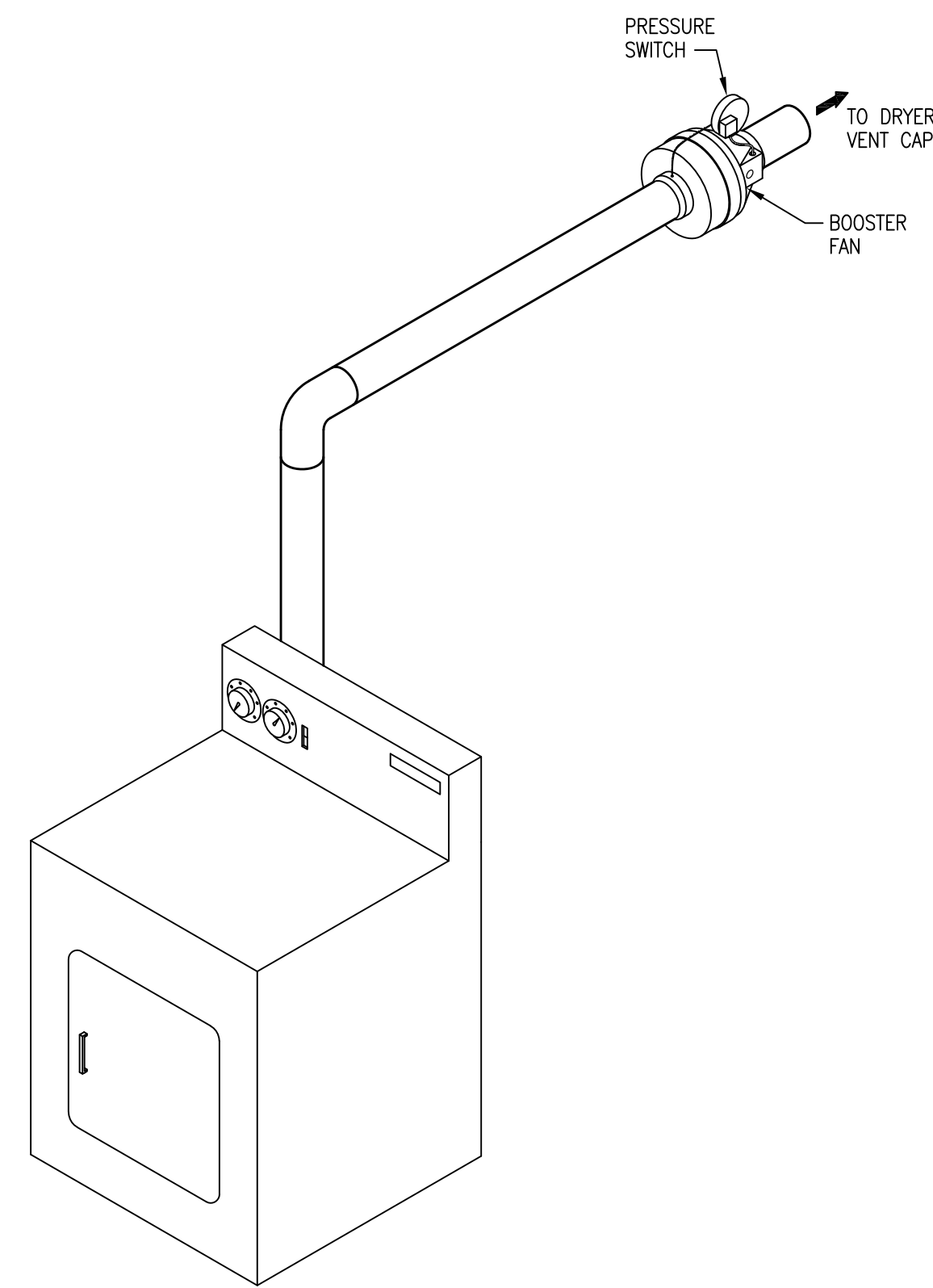


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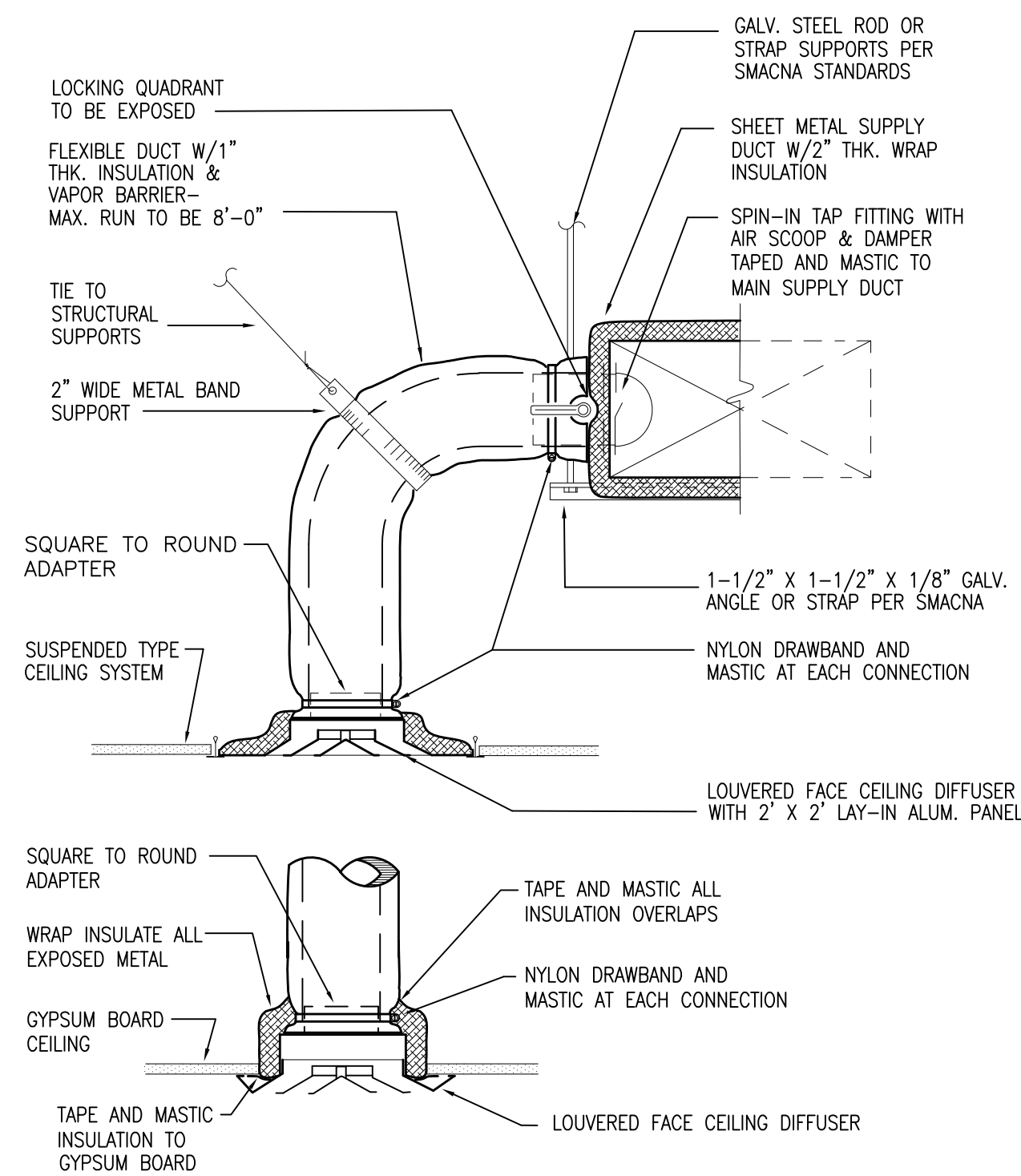
H. M. YONGE AND ASSOC. JOB# 23-005

CONSTRUCTION DOCS	
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Drawn:	Checked:
TJM	TJM
M102	
SHEET #	

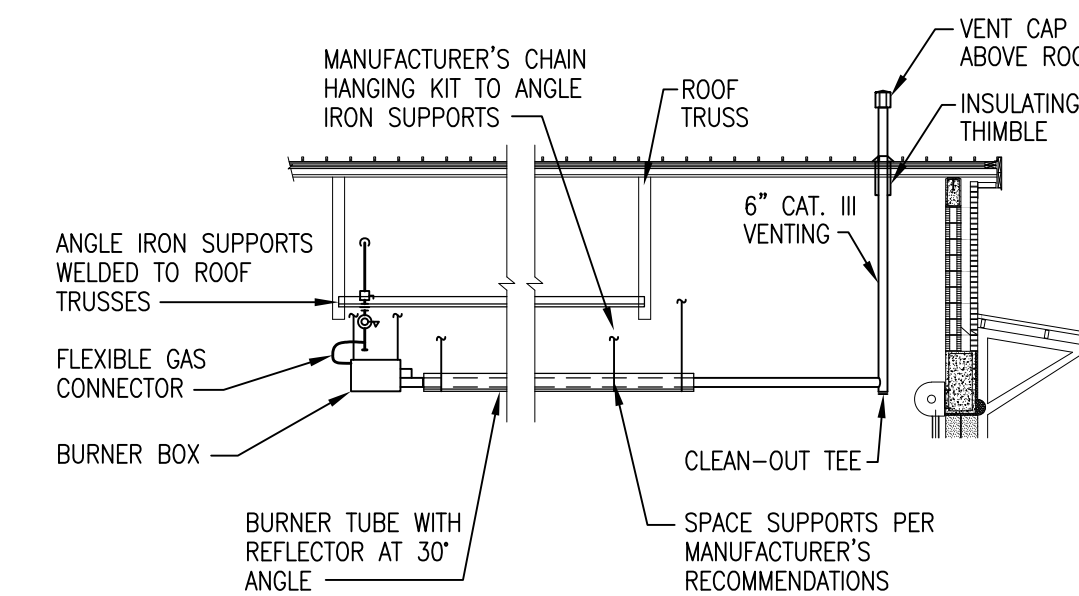


- REQUIRED ACCESSORIES:
1. PRESSURE SWITCH WITH INTEGRAL DELAY
 2. FAN MOUNTING BRACKET AND HARDWARE
 3. ACCESS DOOR IN FIRE RATED CEILING

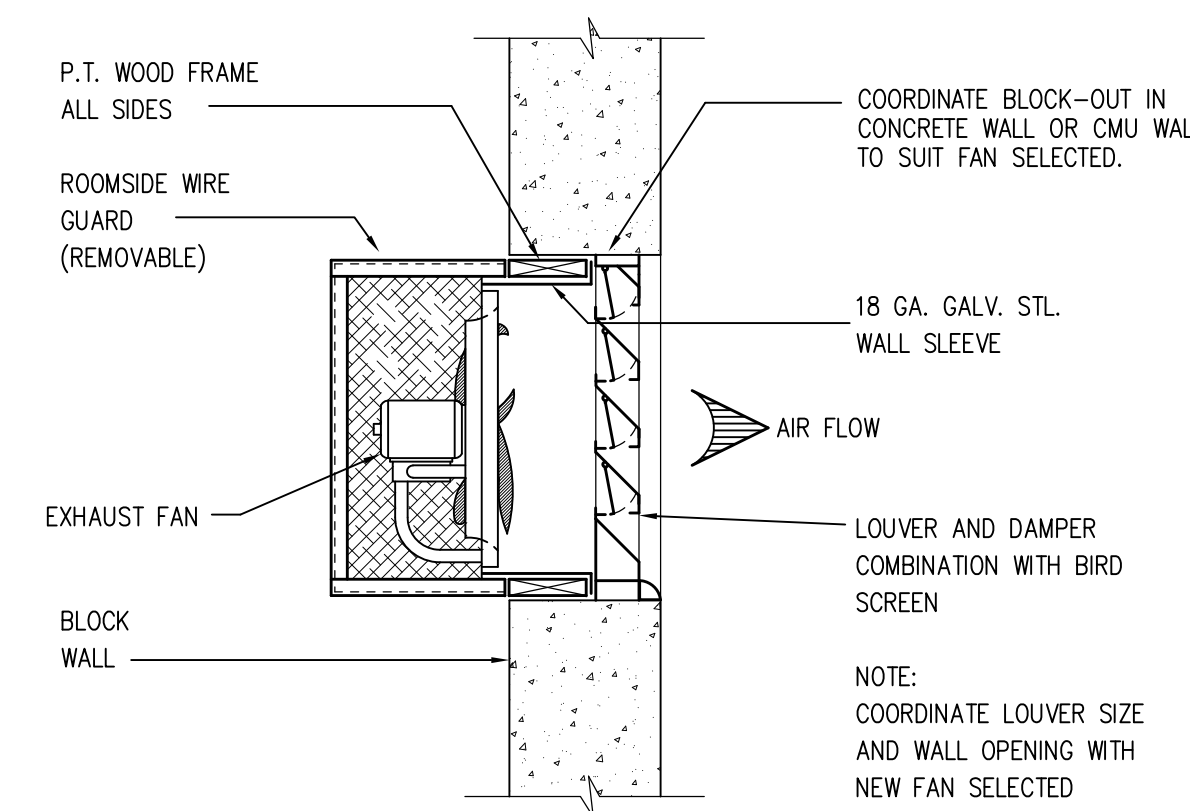
DRYER BOOSTER FAN DETAIL
NOT TO SCALE



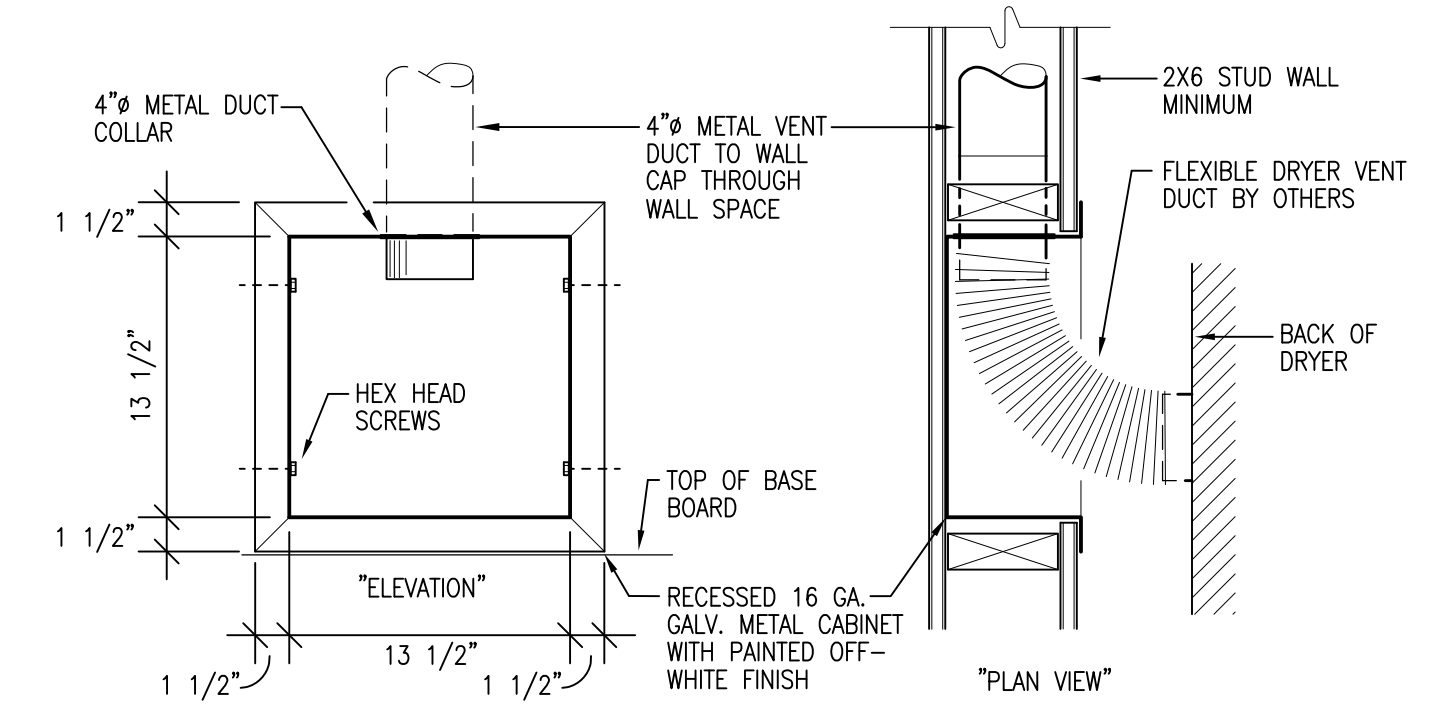
TYPICAL CEILING DIFFUSER DETAIL
NO SCALE



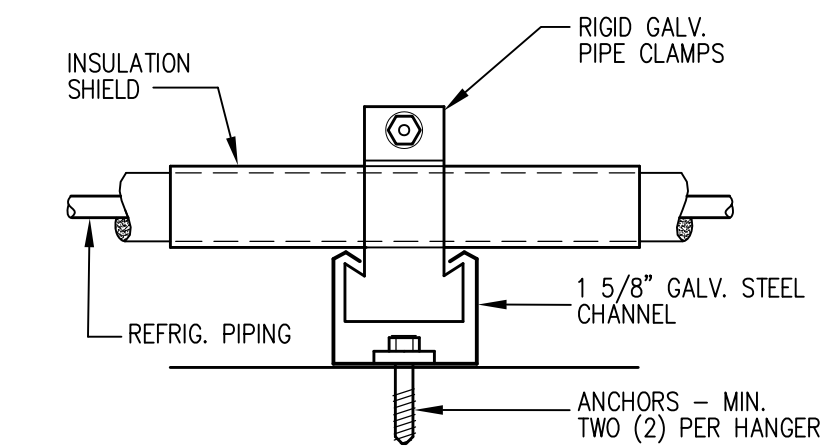
INFRARED GAS HEATER DETAIL
NOT TO SCALE



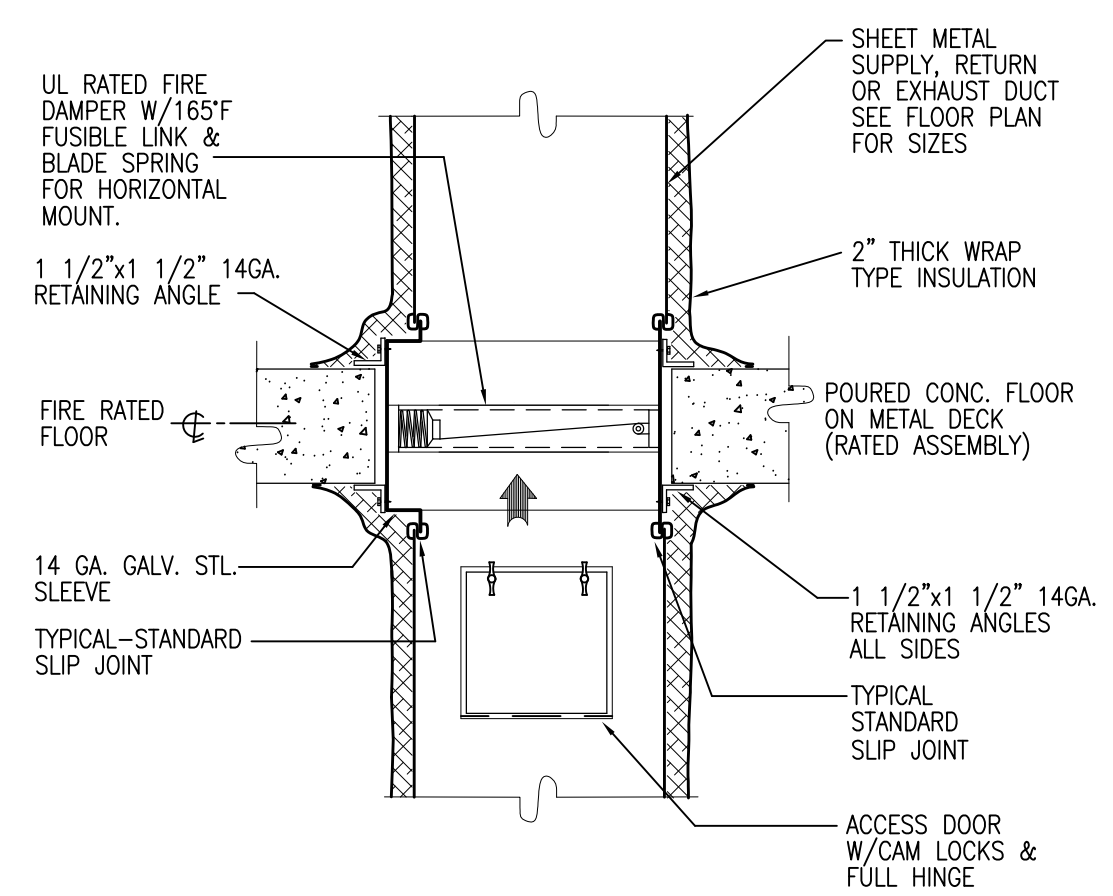
WALL MOUNTED EXHAUST DETAIL
NOT TO SCALE



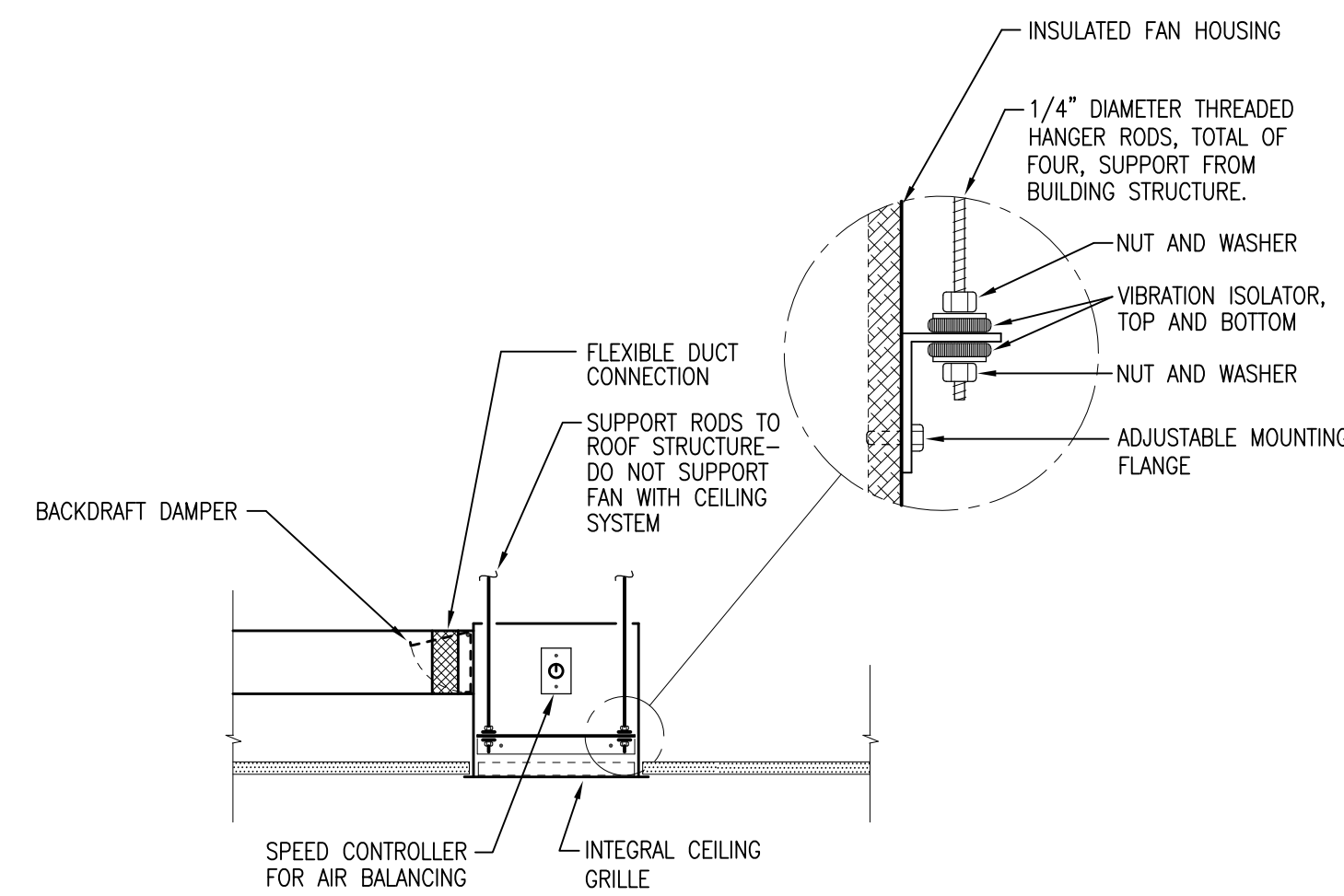
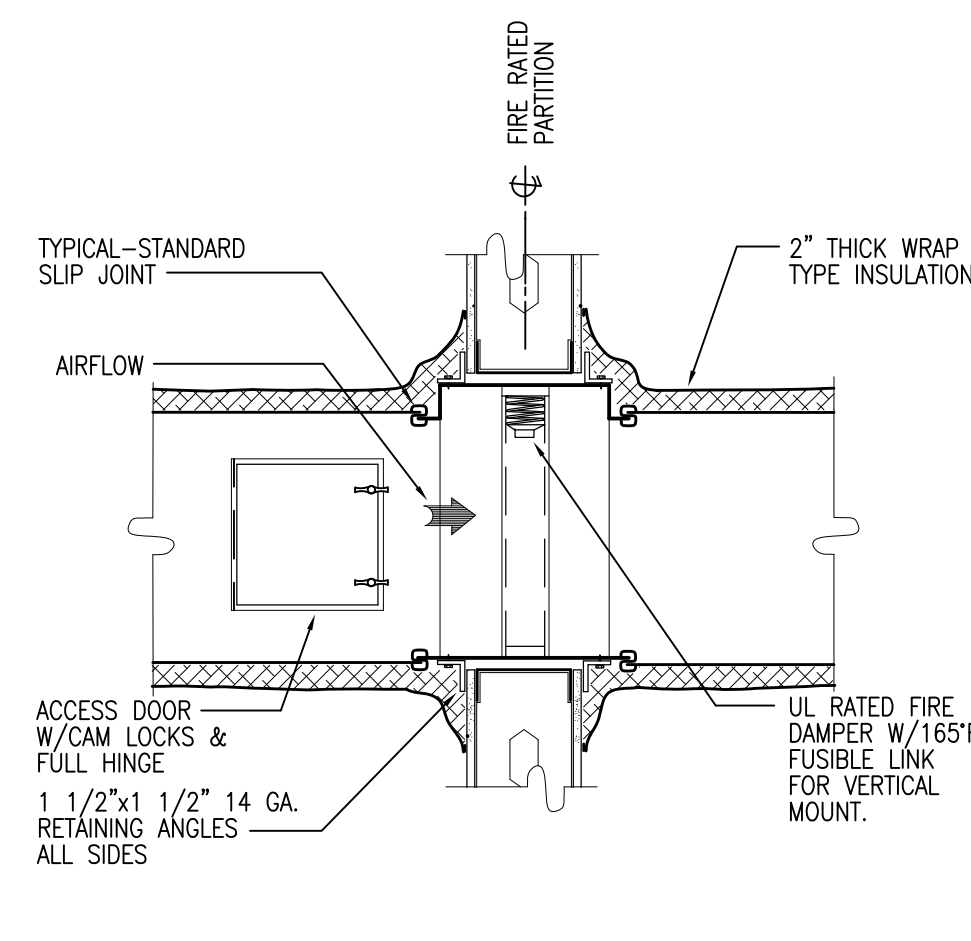
TYPICAL DRYER VENT BOX DETAIL
NOT TO SCALE



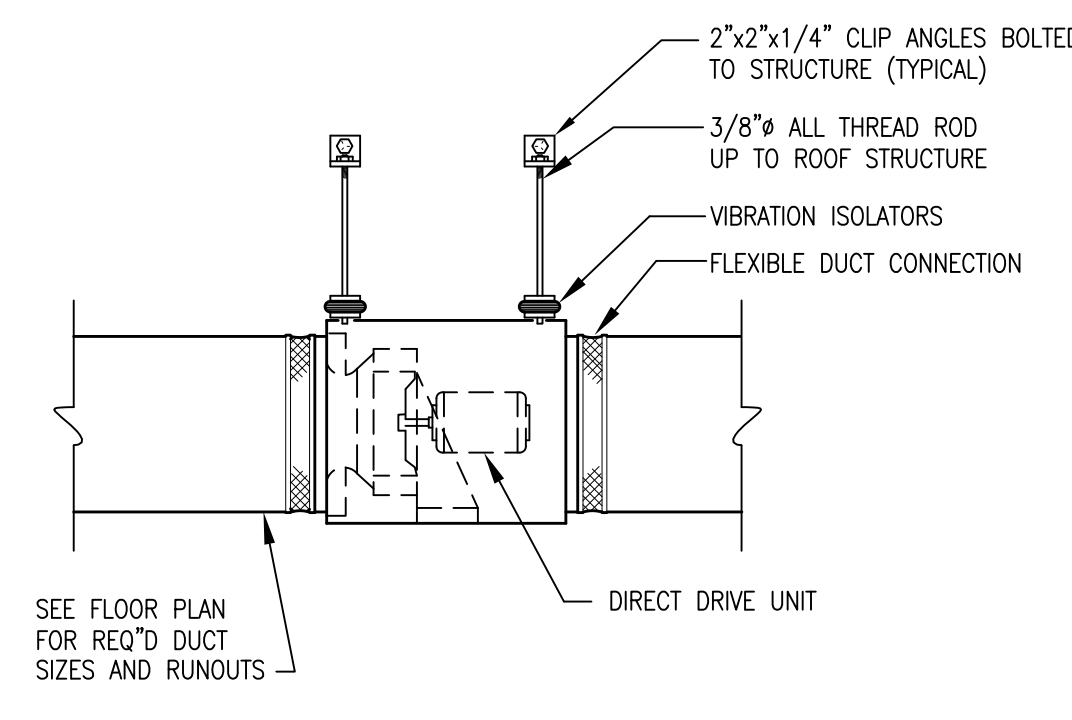
REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE



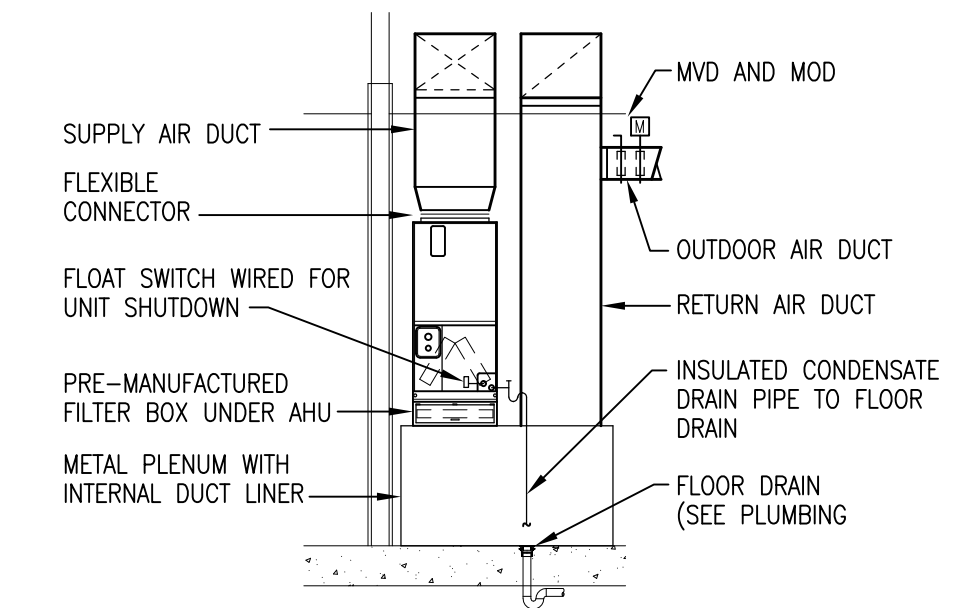
TYPICAL FIRE DAMPER DETAILS
NOT TO SCALE



CEILING EXHAUST FAN DETAIL
NOT TO SCALE



INLINE EXHAUST FAN DETAIL
NOT TO SCALE



TYPICAL AIR HANDLING UNIT DETAIL
NOT TO SCALE

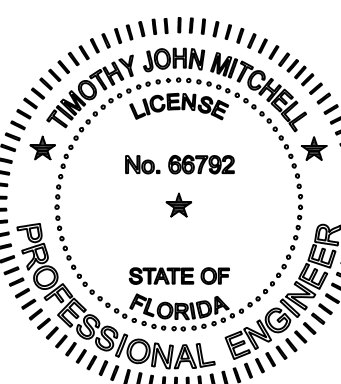
TOWNES + ARCHITECTS, P.A.
ARCHITECTS - PLANNERS
2421 NORTH 12TH AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

HVAC DETAILS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	

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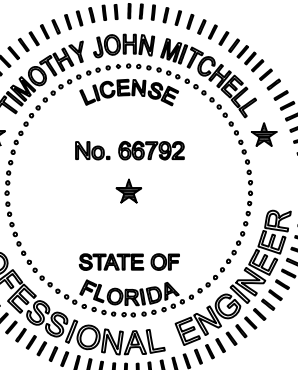


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ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319

H.M. YONGE AND ASSOC. JOB# 23-005

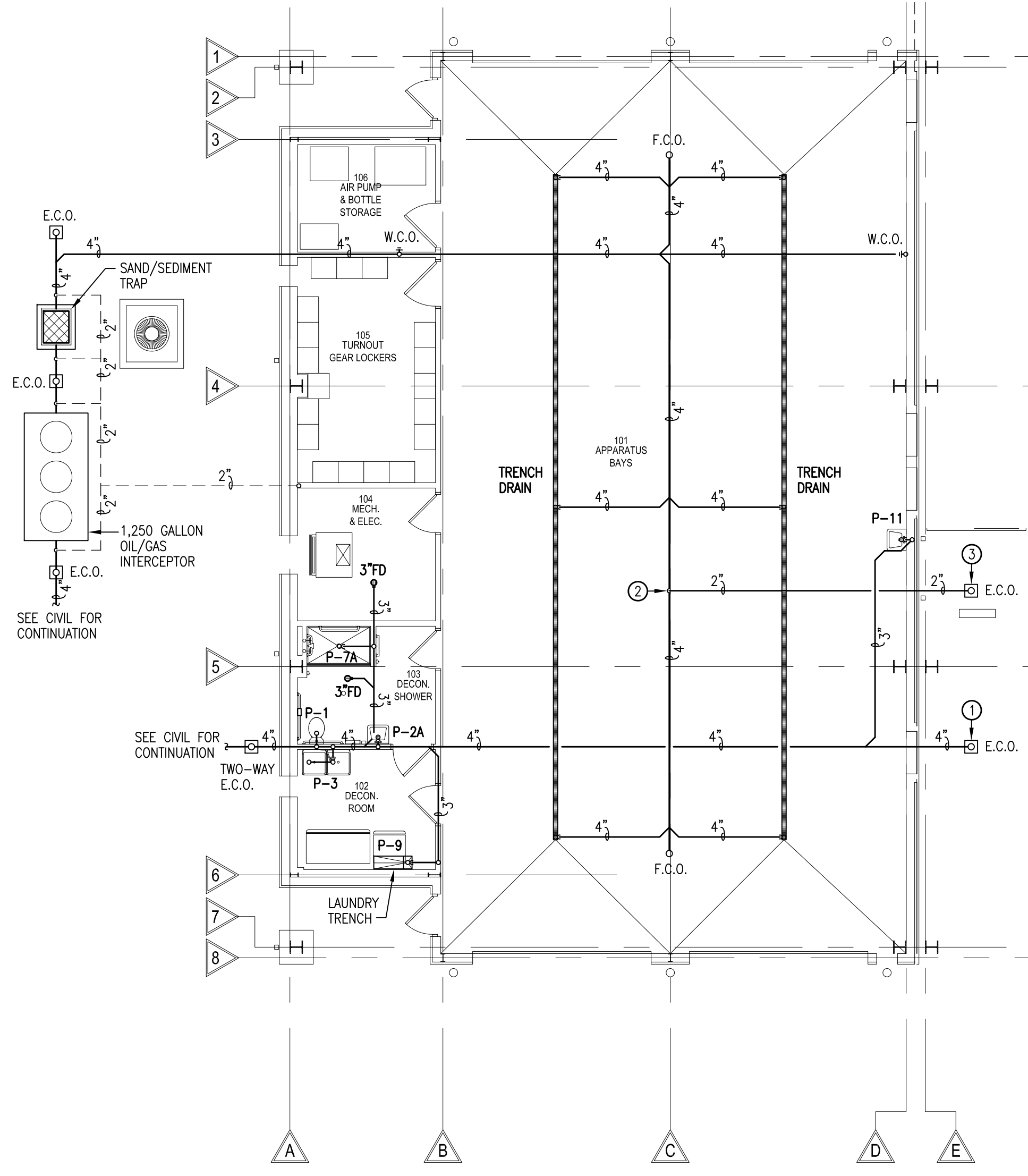
CONSTRUCTION DOCS
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Checked: TJM
M201
SHEET #

Revision	Description

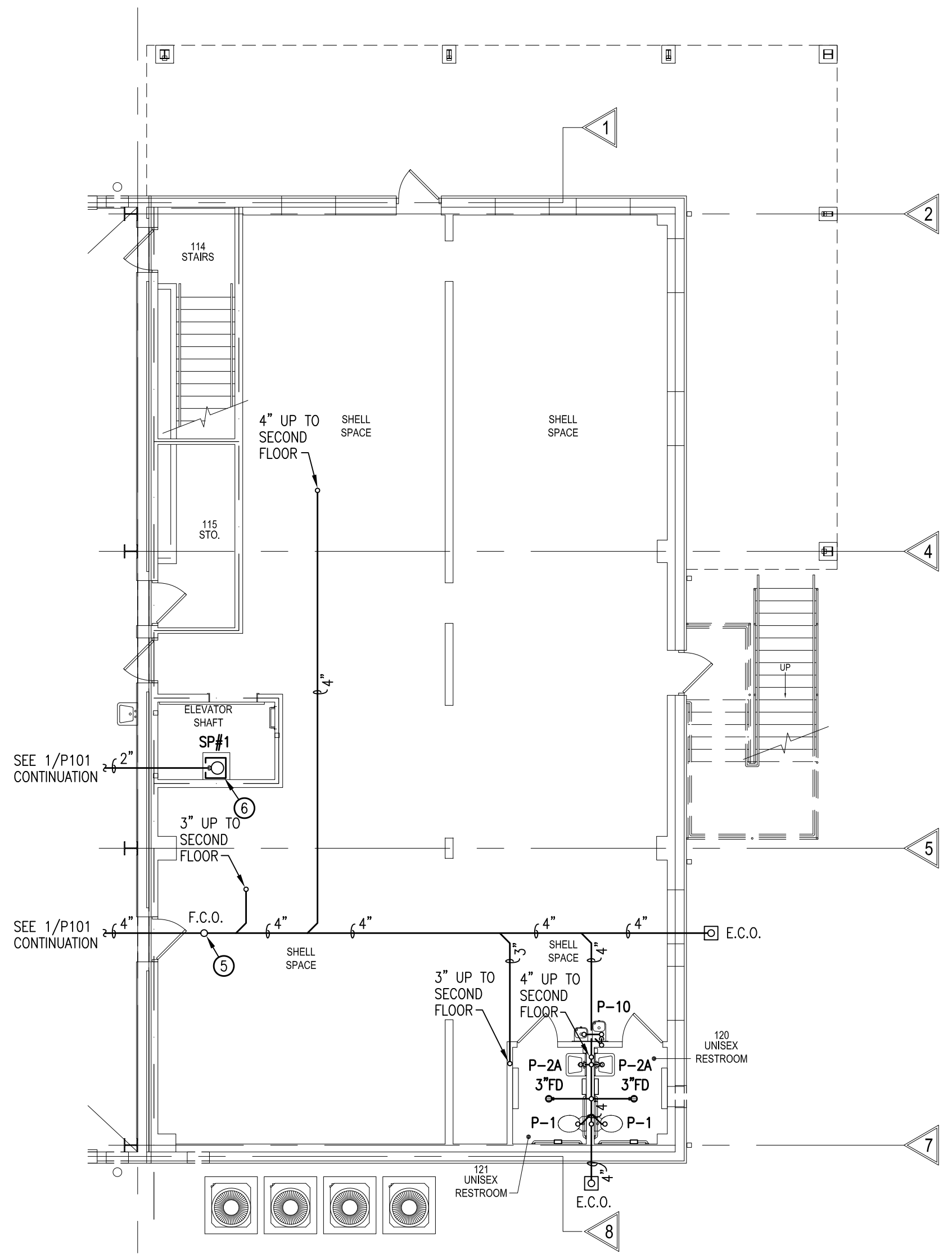


KEY NOTES:

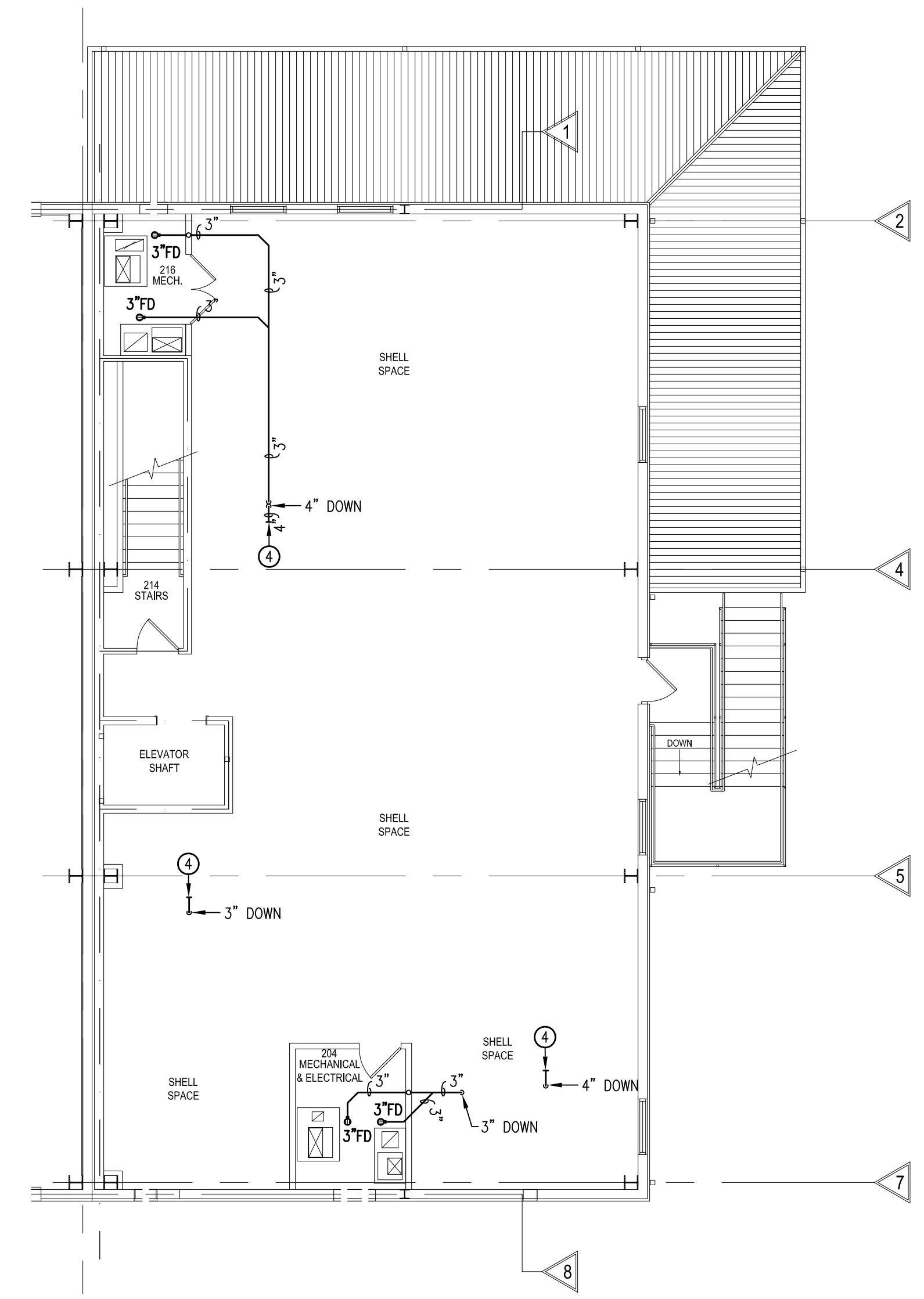
- ① THE DEPTH OF THE EXTERIOR CLEANOUT SHALL ACCOMMODATE ALL FUTURE PIPING SHOWN IN THE BID ALTERNATES.
- ② DROP INTO TOP OF 4" PIPE WITH WYE FITTING.
- ③ SET PIPE DEPTH TO ACCOMMODATE THE ELEVATOR SUMP PUMP SHOWN IN THE BID ALTERNATES.
- ④ CAP WASTE PIPE FOR EXTENSION TO FUTURE PLUMBING FIXTURES.
- ⑤ CONVERT E.C.O. TO F.C.O. WHEN BID ALTERNATE #1 IS CONSTRUCTION.
- ⑥ ELIMINATE E.C.O. AND PROVIDE CONNECTION TO ELEVATOR SUMP PUMP WHEN BID ALTERNATE #1 IS CONSTRUCTED.



1 WASTE PIPING FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"



2 WASTE PIPING FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 WASTE PIPING SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"

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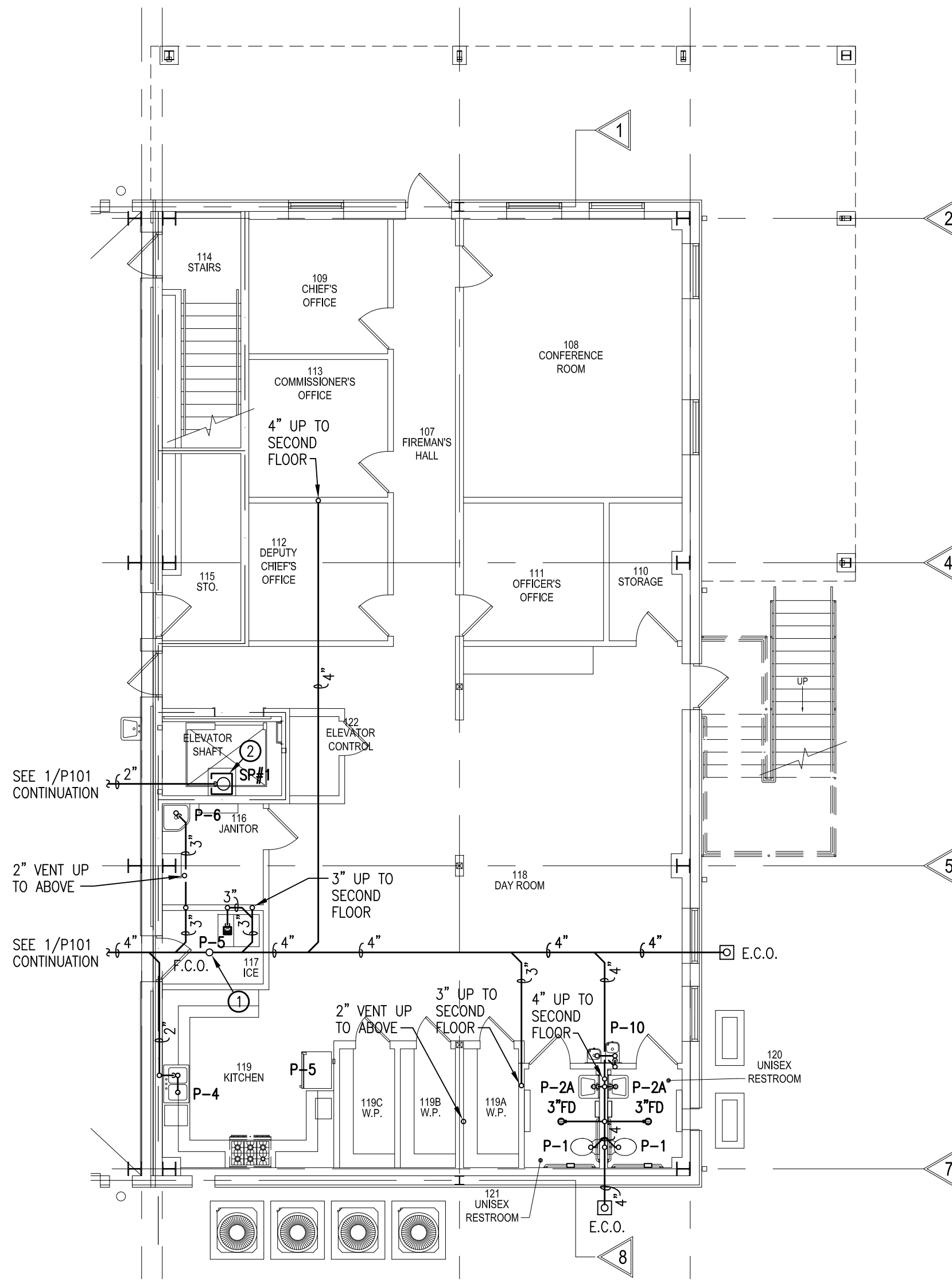
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 MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792
 ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319
 H. M. YONGE AND ASSOC. JOB# 23-005

CONSTRUCTION DOCS
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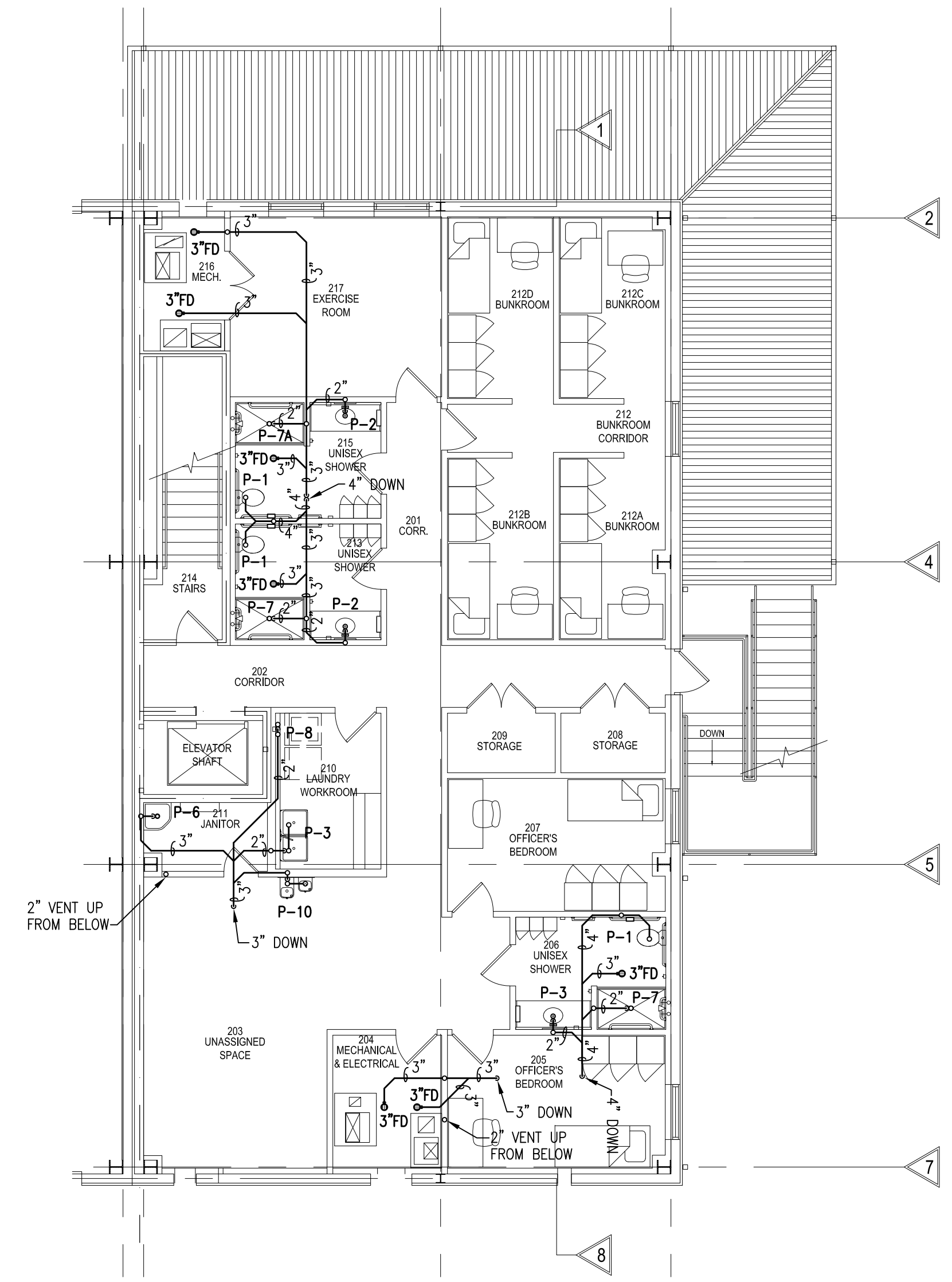
Revision	

KEY NOTES:

- ① CONVERT E.C.O. TO F.C.O. WHEN BID ALTERNATE #1 IS CONSTRUCTION.
- ② ELIMINATE E.C.O. AND PROVIDE CONNECTION TO ELEVATOR SUMP PUMP WHEN BID ALTERNATE #1 IS CONSTRUCTED.

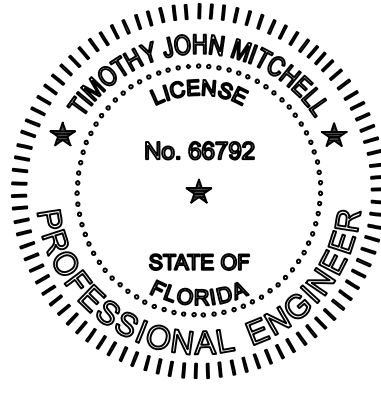


1 WASTE PIPING FIRST FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"



2 WASTE PIPING SECOND FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"

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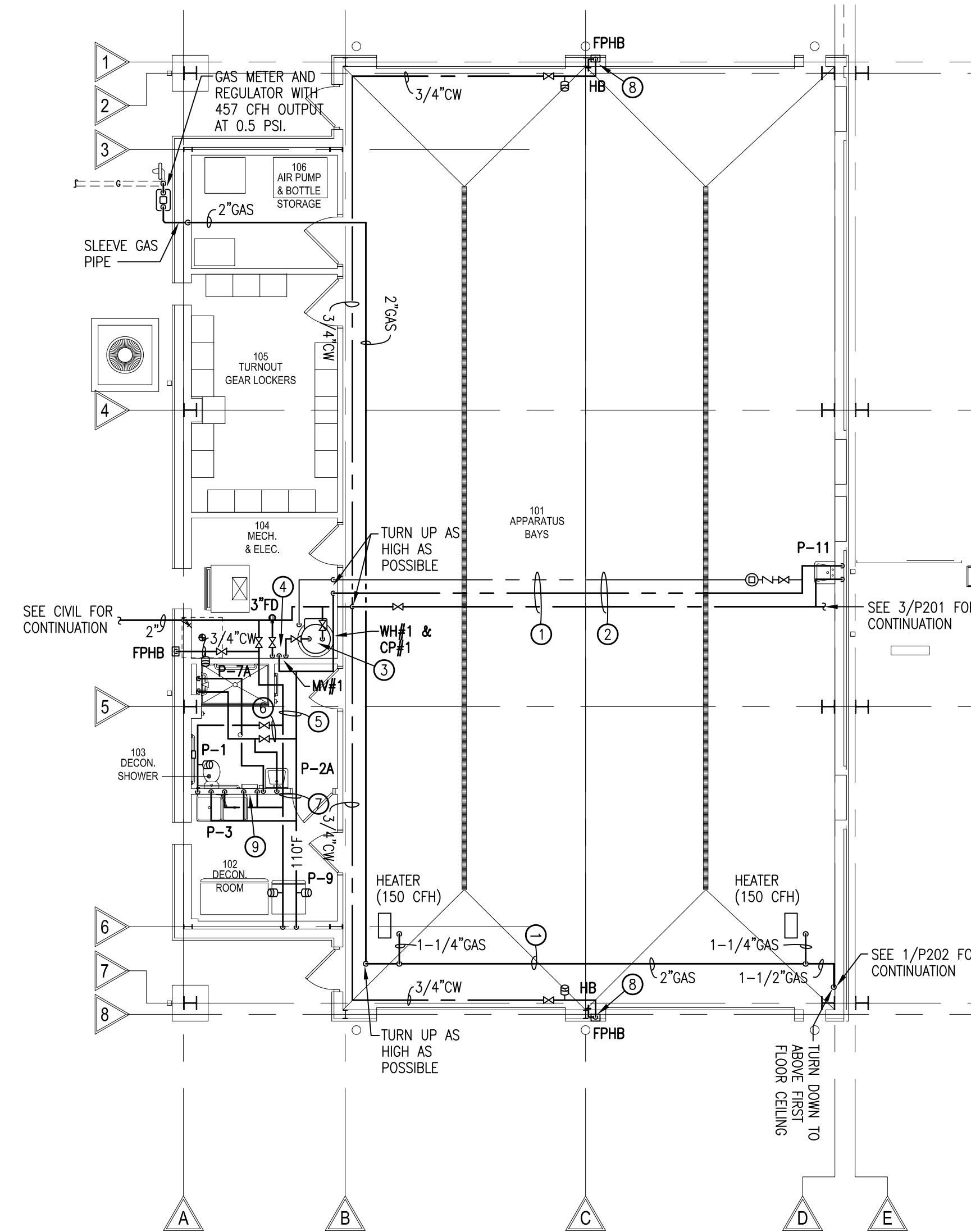
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 CONSULTING ENGINEERS // EST. 1988
 51 EAST GREGORY STREET
 PENSACOLA, FLORIDA 32502
 PHONE: (850)434-2661
 CERTIFICATION OF AUTHORIZATION No. 5264
 MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
 MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 68792
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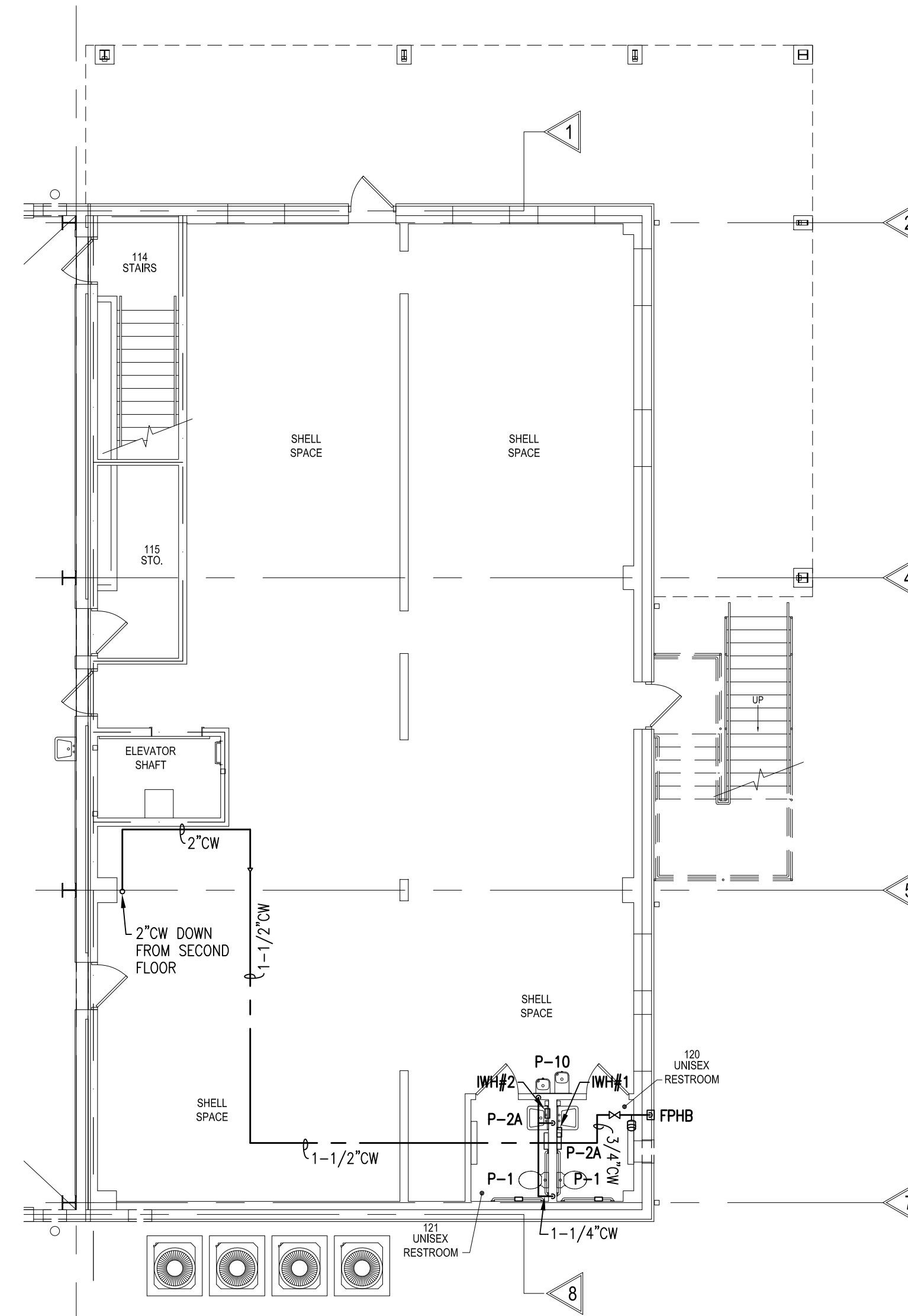
Revision	Description

KEY NOTES:

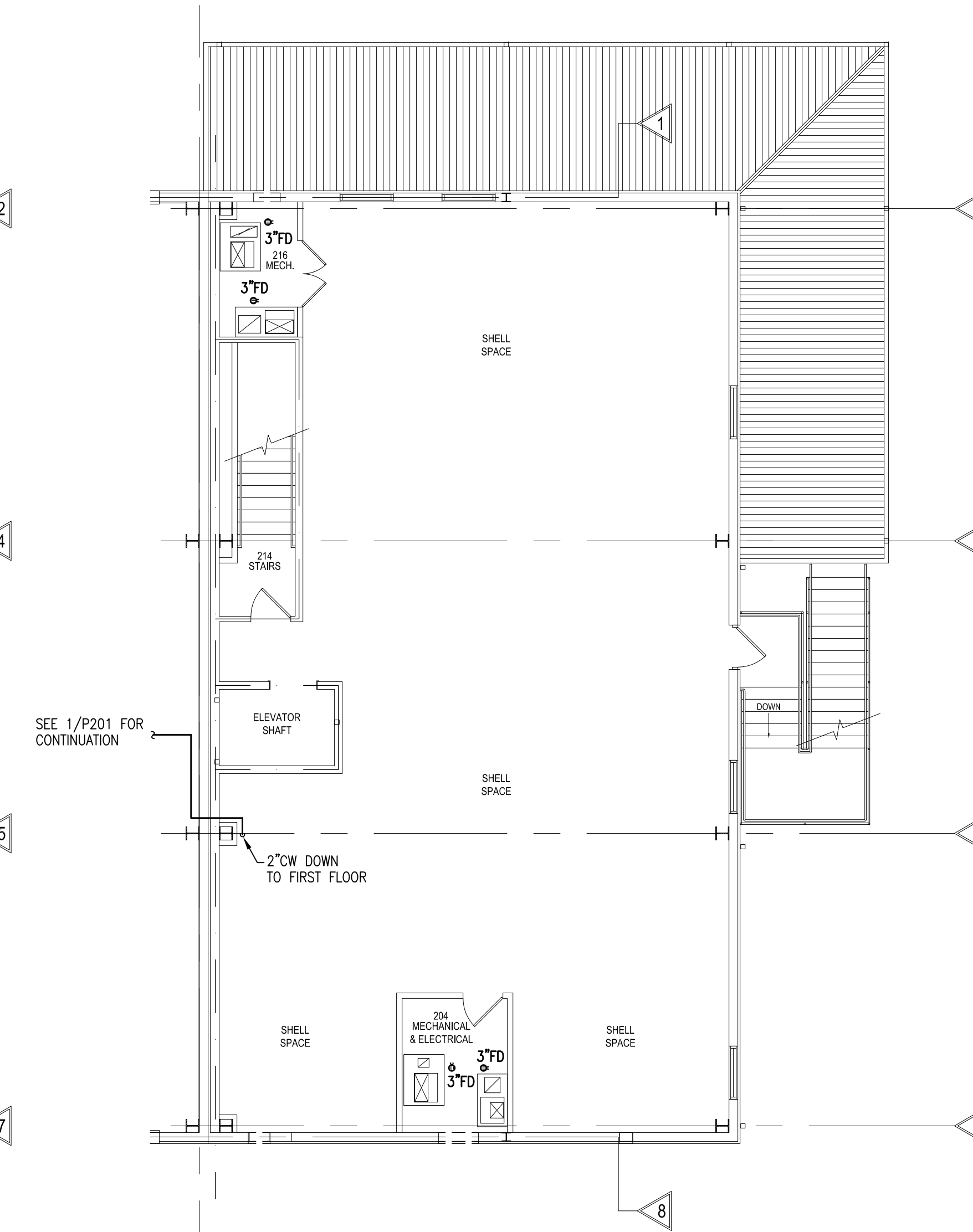
- ① FOLLOW SLOPE OF ROOF UP TO ABOVE SECOND FLOOR CEILING ELEVATION.
- ② 2" CW, 1/2" HW AND 1/2" HWR
- ③ 3/4" CW AND 3/4" HW DOWN TO WATER HEATER.
- ④ 3/4" CW, 3/4" HW (140°F) AND 3/4" HW (110°F) DOWN TO MIXING VALVE.
- ⑤ 1-1/2" CW AND 3/4" HW (110°F)
- ⑥ 1-1/4" CW AND 1/2" HW (110°F)
- ⑦ 3/4" CW AND 3/4" HW (110°F)
- ⑧ INSTALL FREEZE PROOF HOSE BIBB ON EXTERIOR WALL AND STANDARD HOSE BIBB ON INTERIOR WALL.
- ⑨ INSTALL CW AND HW HOSE BIBBS ON THE WALL.



1 WATER AND GAS PIPING FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"

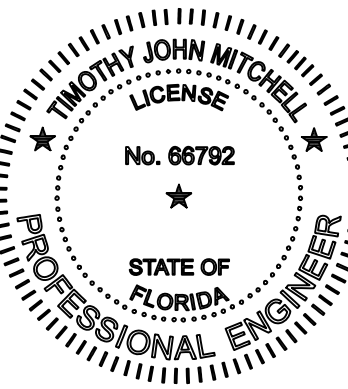


2 WATER AND GAS PIPING FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 WATER AND GAS PIPING SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"

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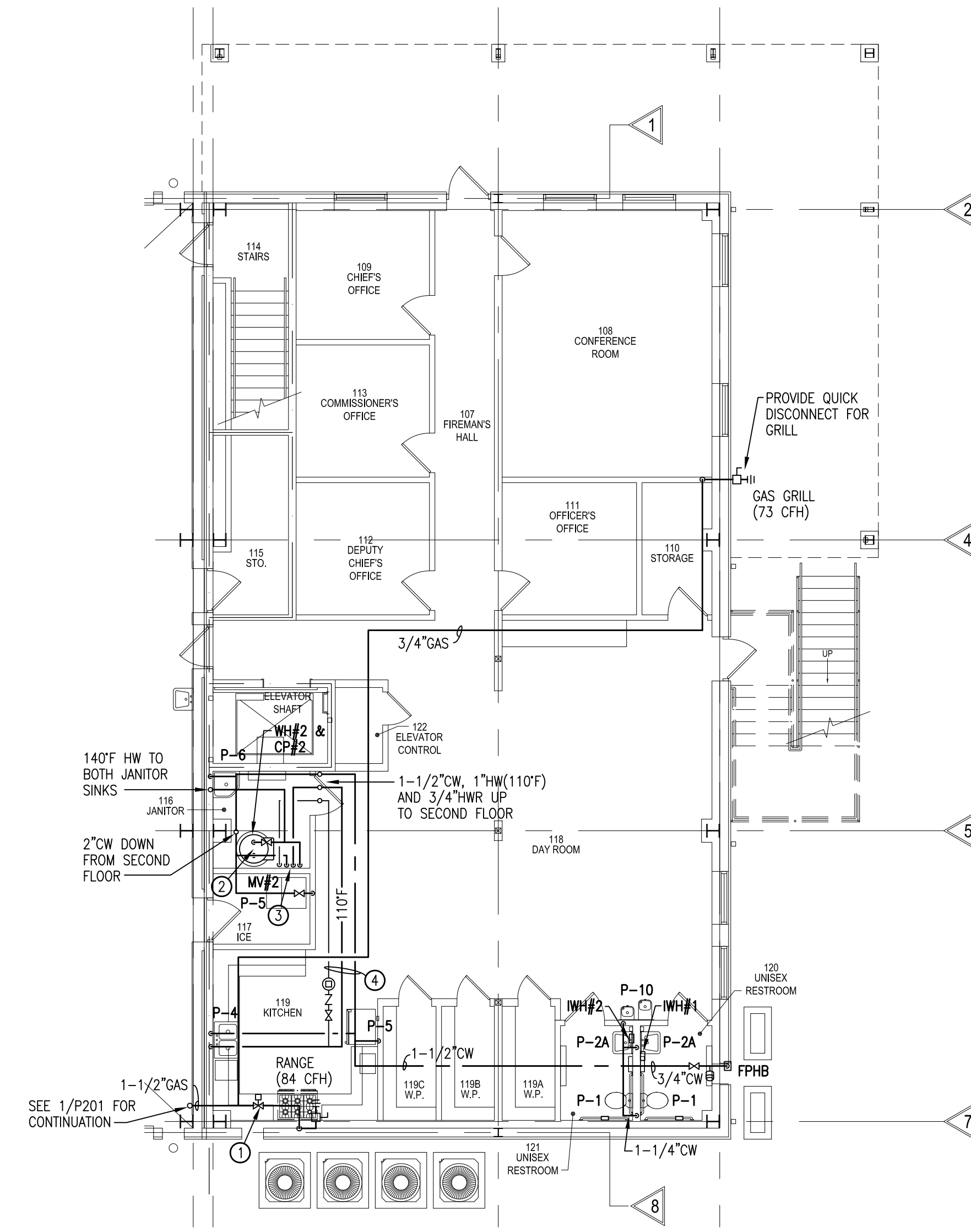
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 CONSULTING ENGINEERS // EST. 1988
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 PENSACOLA, FLORIDA 32502
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 CERTIFICATION OF AUTHORIZATION No. 5264
 MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
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 ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319

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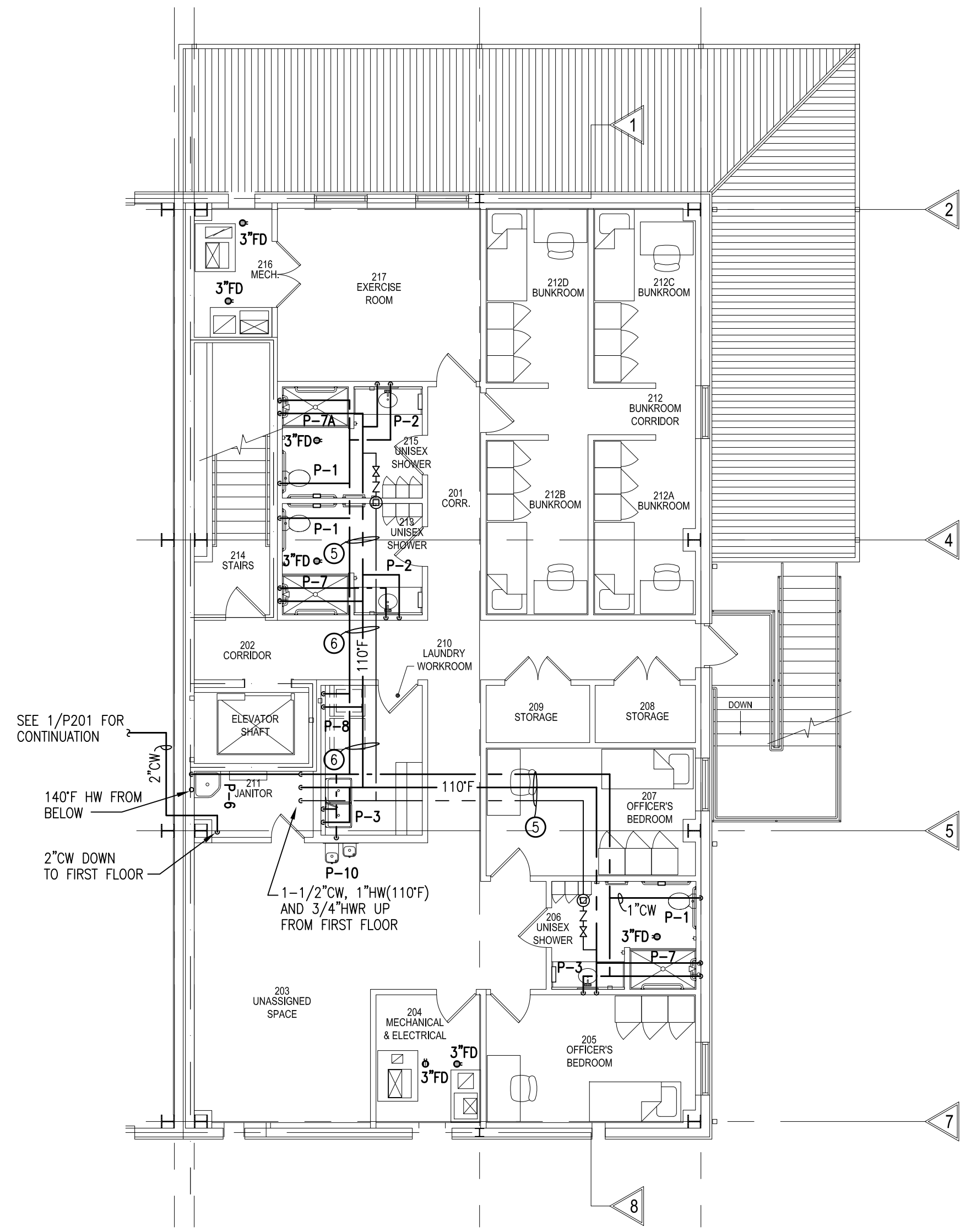
Revision	

KEY NOTES:

- ① SOLENOID VALVE CONNECTED TO HOOD FIRE SUPPRESSION SYSTEM FOR EMERGENCY GAS SHUTOFF. SEE MECHANICAL PLANS.
- ② 3/4" CW AND 3/4" HW (140°F) DOWN TO WATER HEATER.
- ③ 3/4" CW, 3/4" HW (140°F) AND 3/4" HW (110°F) DOWN TO MIXING VALVE.
- ④ 1-1/2" CW, 1/2" HW (110°F) AND 1/2" HW
- ⑤ 1-1/4" CW, 1/2" HW (110°F) AND 1/2" HW
- ⑥ 1-1/2" CW, 3/4" HW (110°F) AND 1/2" HW

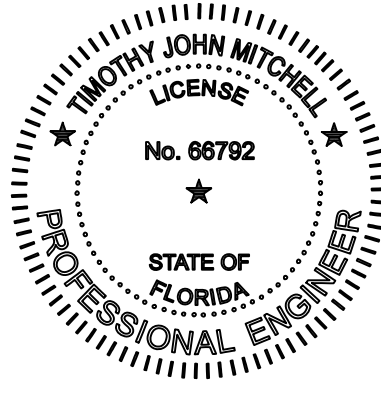


1 WATER AND GAS PIPING FIRST FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"



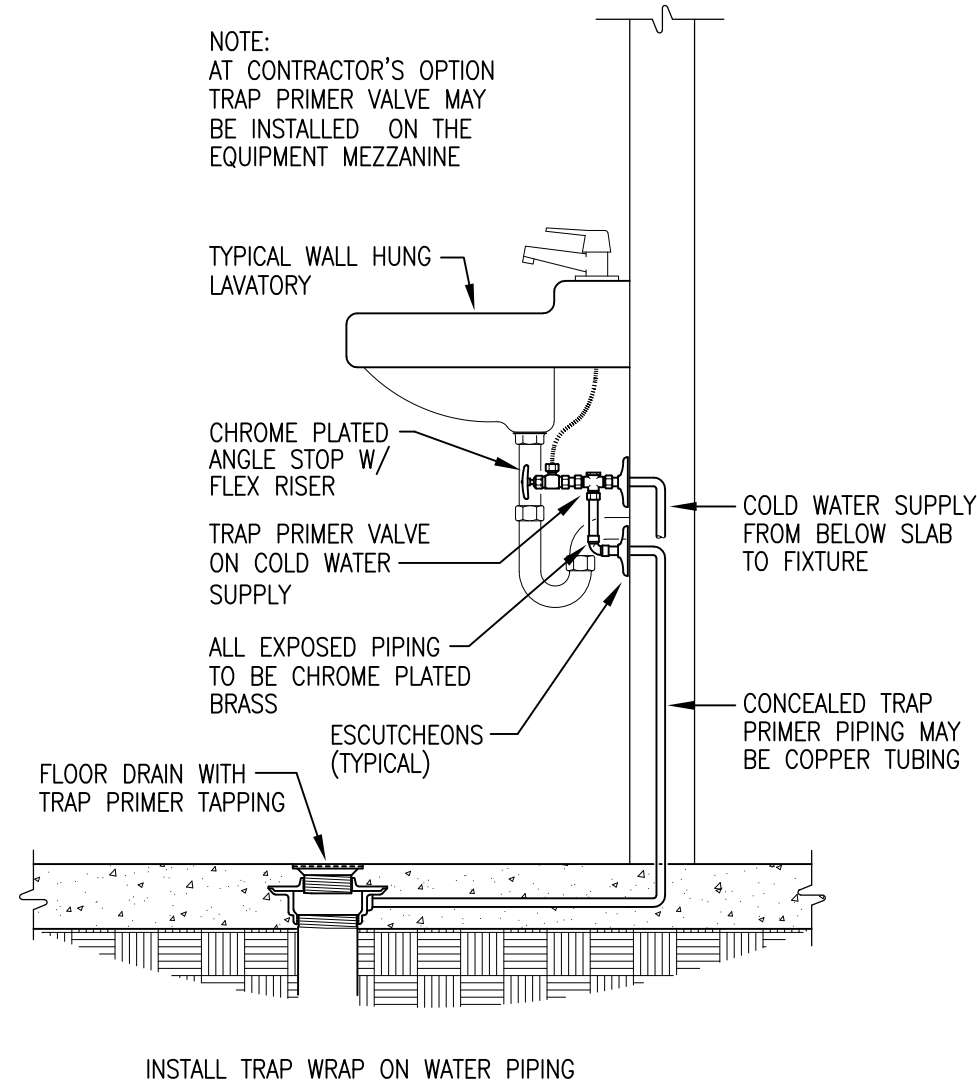
2 WATER AND GAS PIPING SECOND FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"

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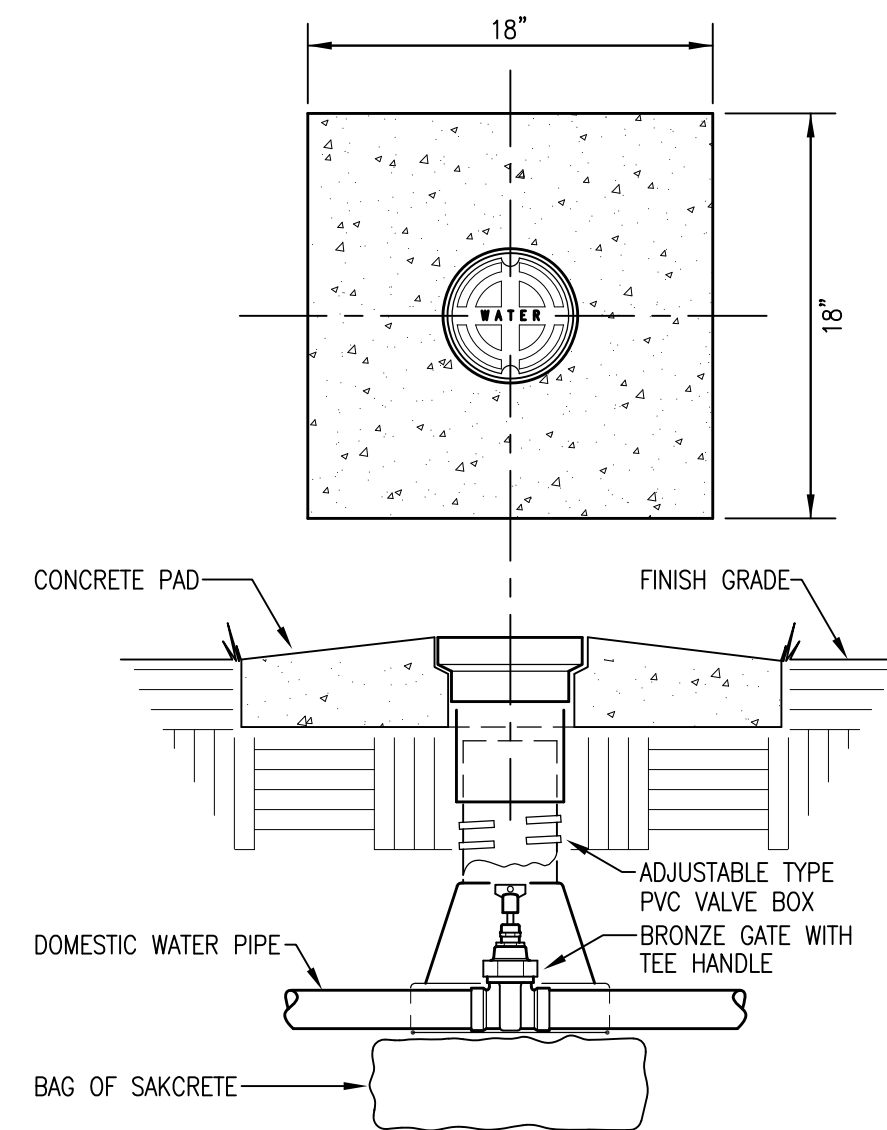


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 PENSACOLA, FLORIDA 32502
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 CERTIFICATION OF AUTHORIZATION No. 5254
 MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG. NO. 32093
 MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG. NO. 66792
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 H. M. YONGE AND ASSOC. JOB# 23-005

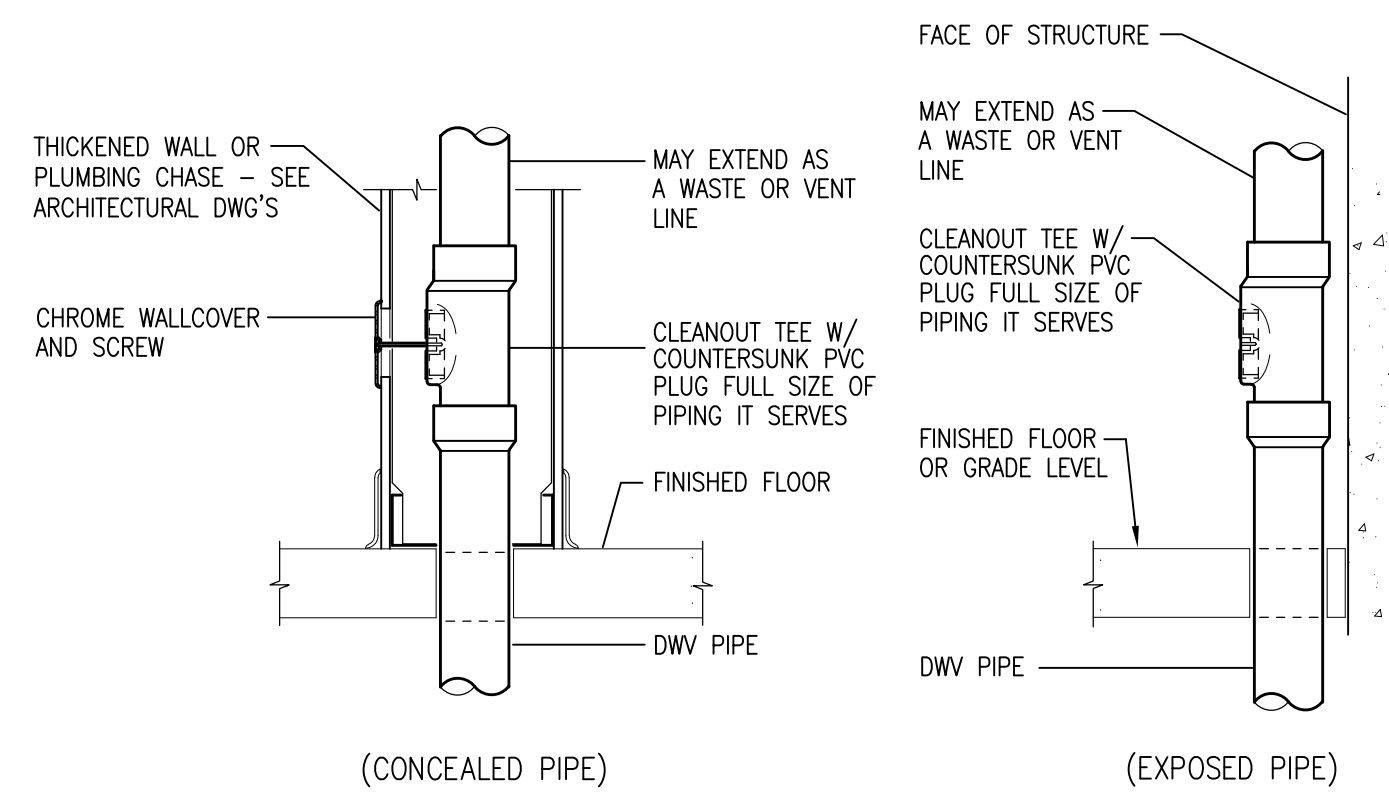
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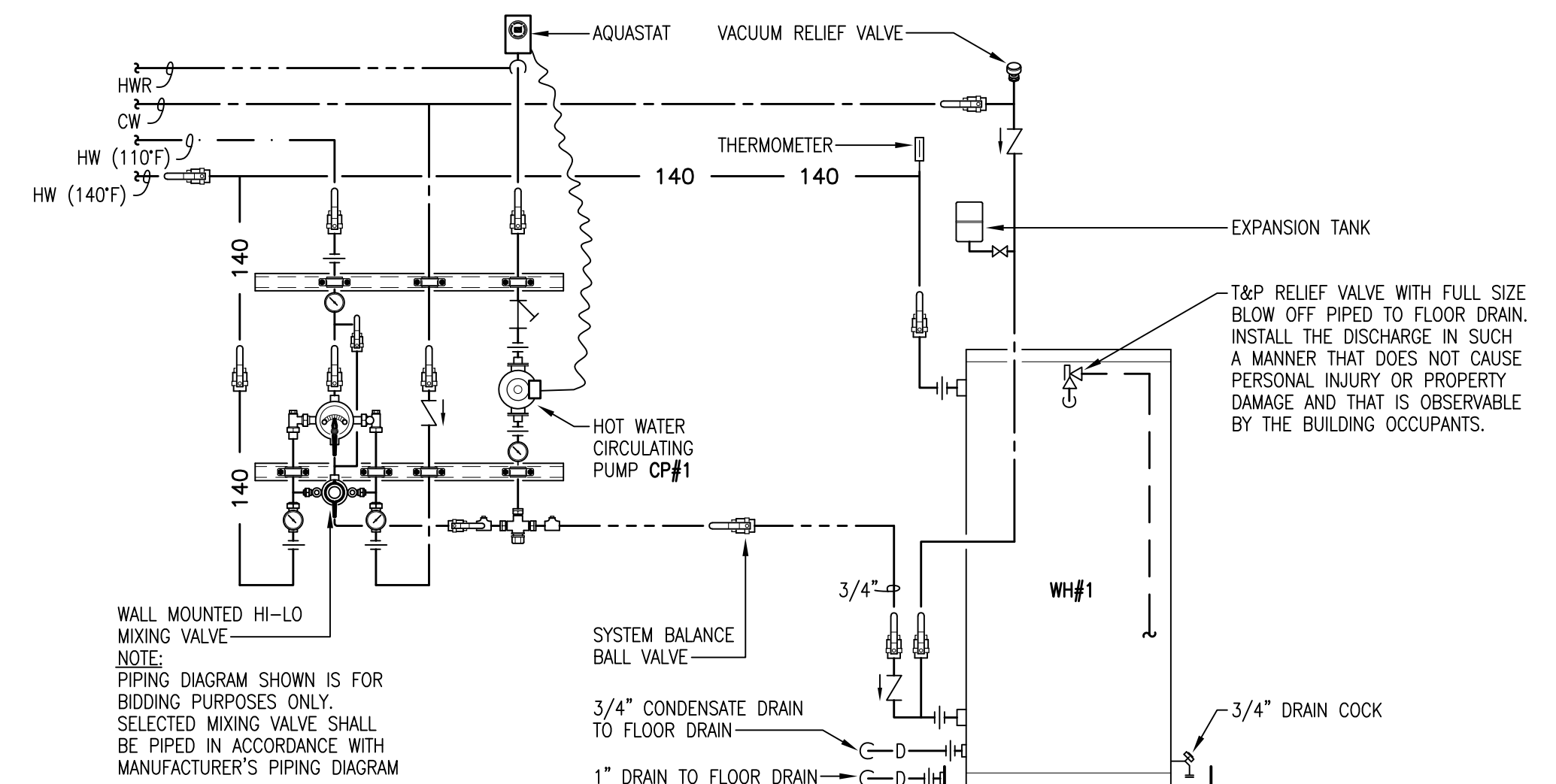
FLOOR DRAIN/TRAP PRIMER DETAIL
NOT TO SCALE



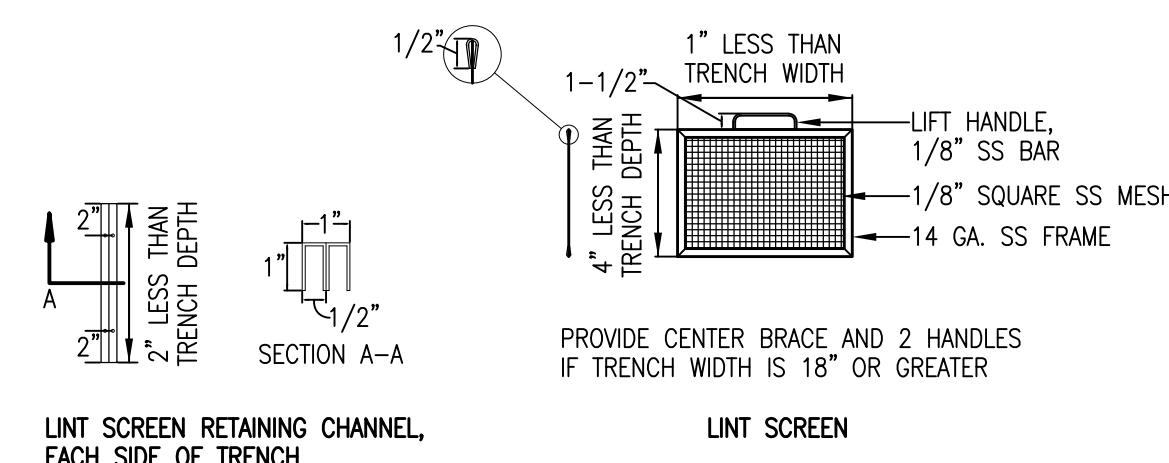
SHUT-OFF VALVE AND VALVE BOX DETAIL
NOT TO SCALE



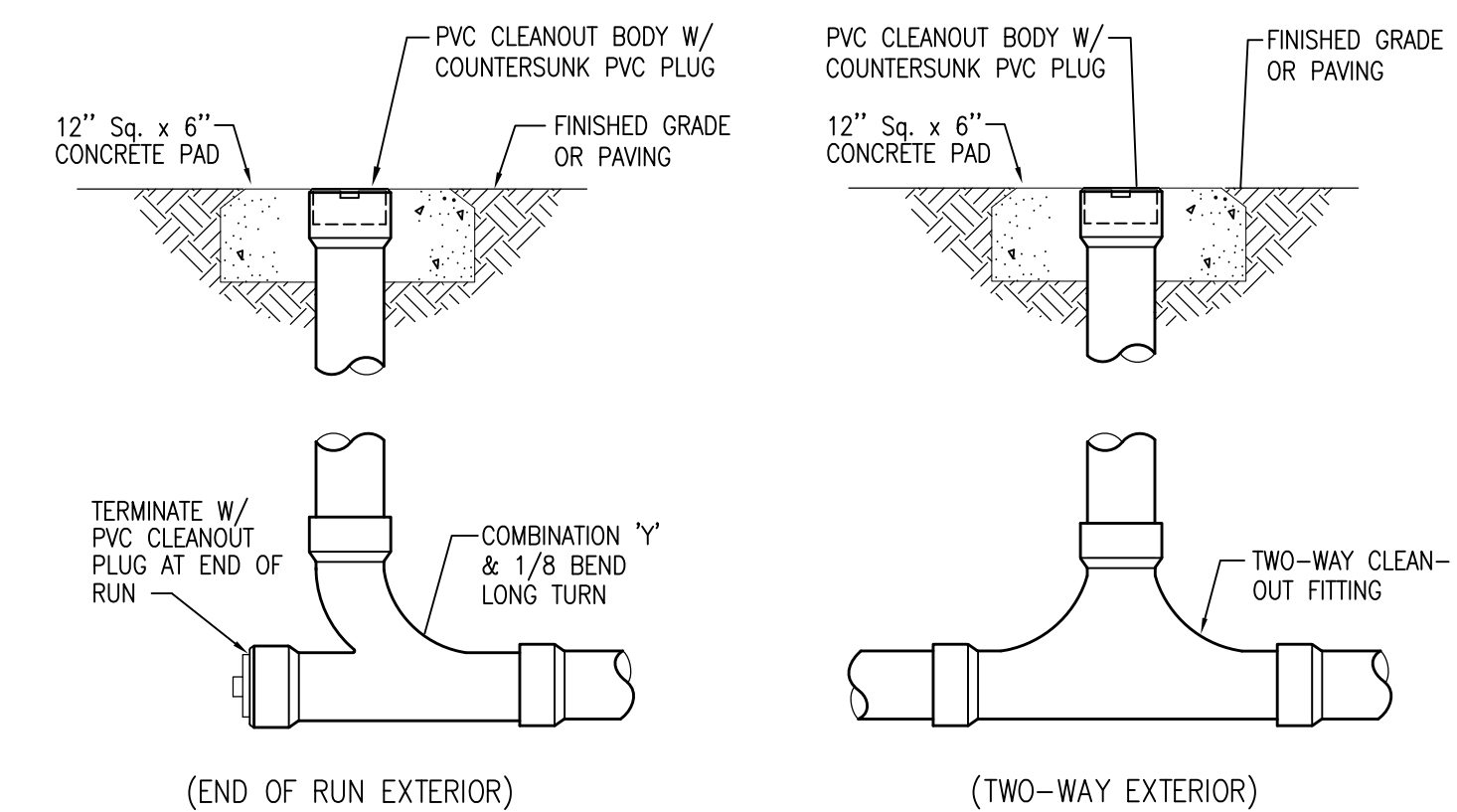
TYPICAL WALL/STACK CLEANOUT DETAIL
NO SCALE



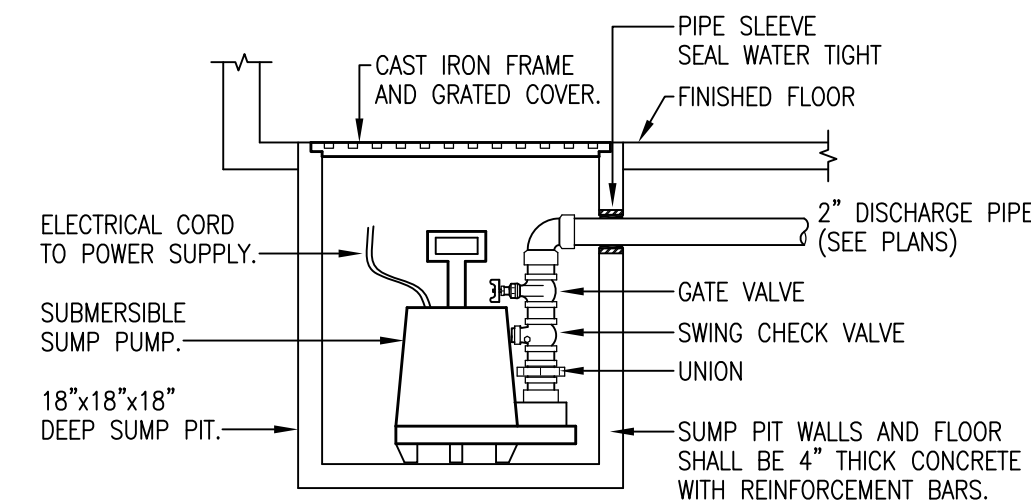
WATER HEATER DETAIL
NOT TO SCALE



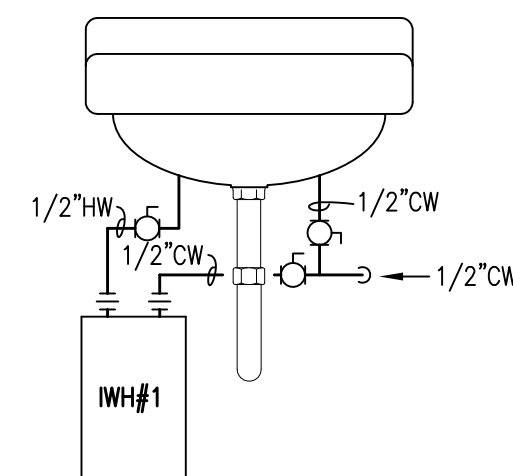
LINT SCREEN RETAINING CHANNEL, EACH SIDE OF TRENCH



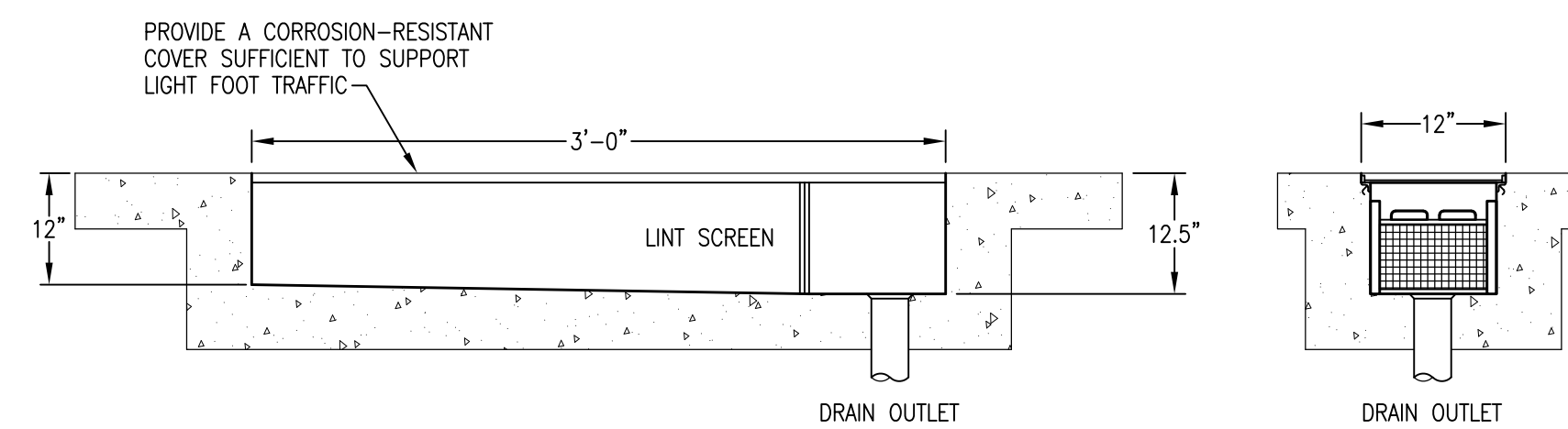
TYPICAL EXTERIOR CLEANOUT DETAILS
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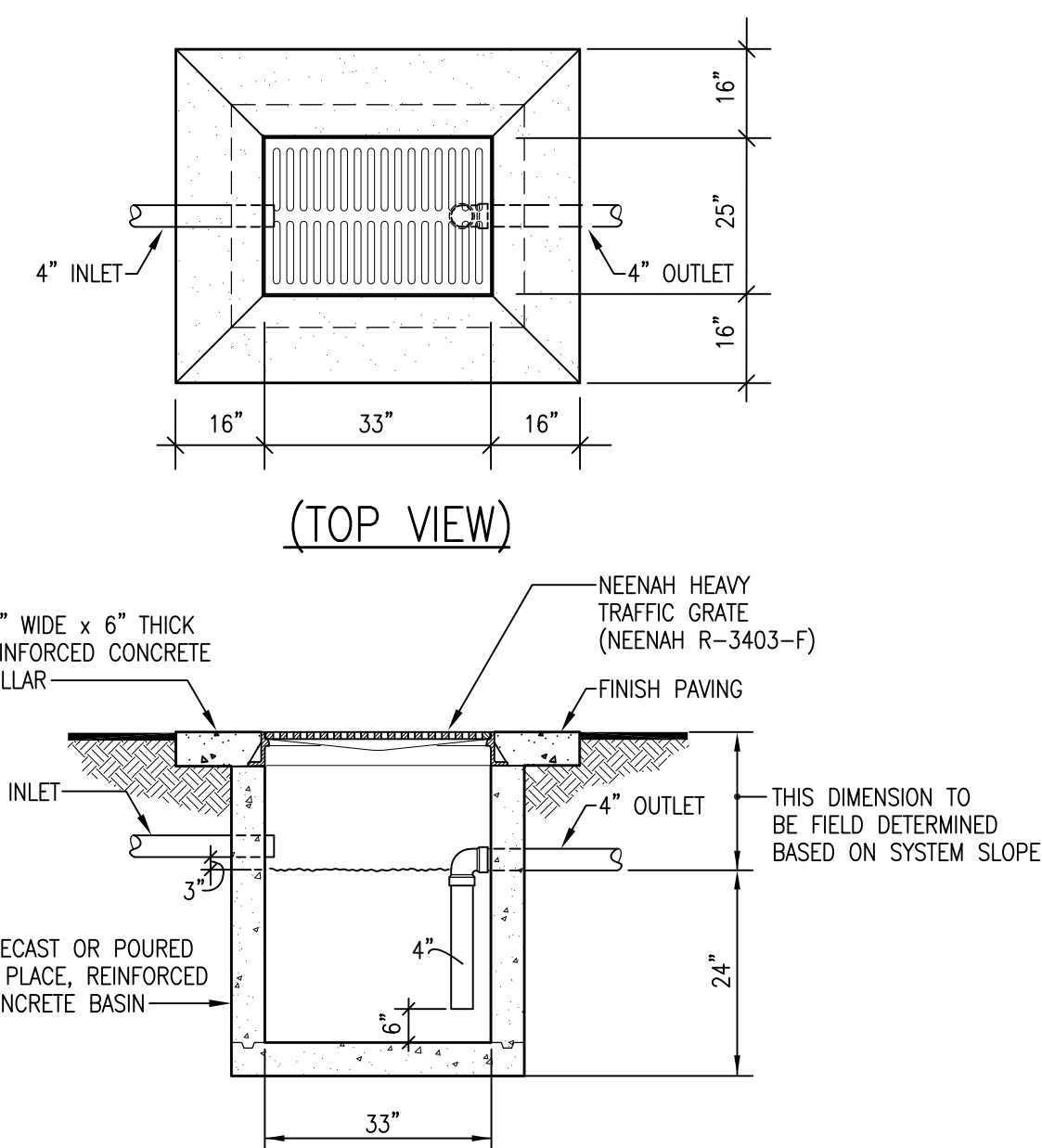
SUMP PUMP PIT DETAIL
NOT TO SCALE



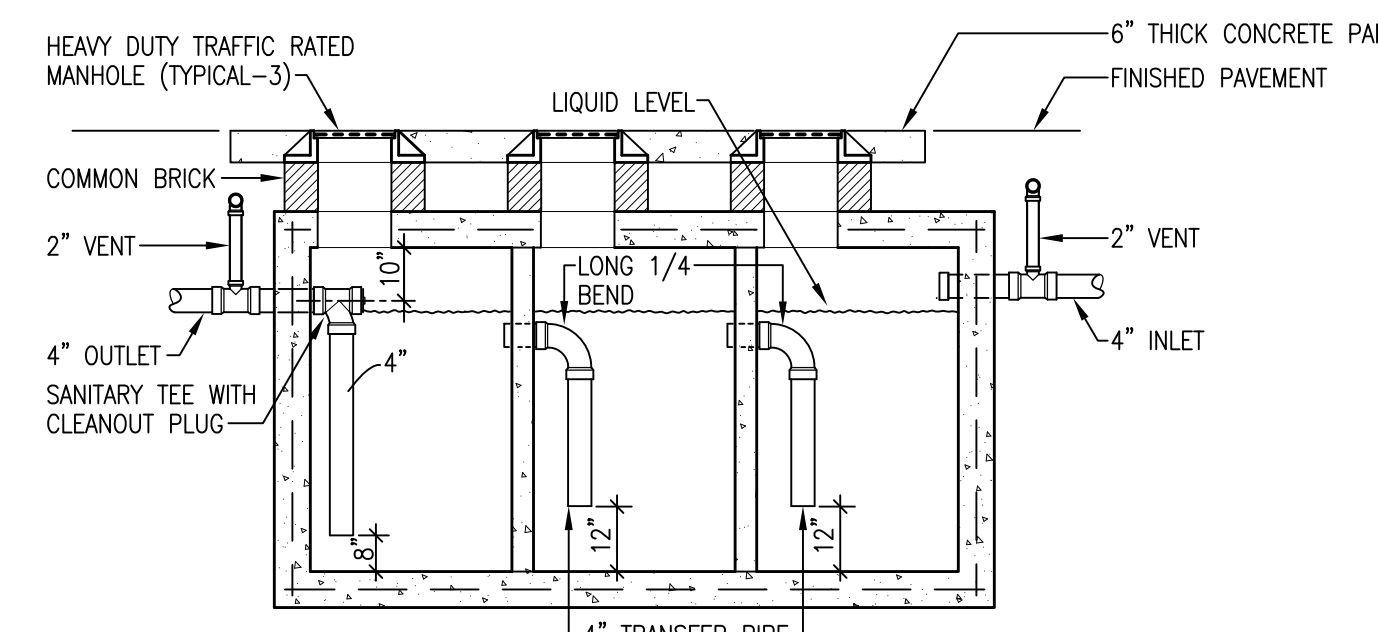
INSTANTANEOUS HOT WATER HEATER DETAIL
NOT TO SCALE



LAUNDRY TRENCH DRAIN WITH LINT TRAP DETAIL
NOT TO SCALE

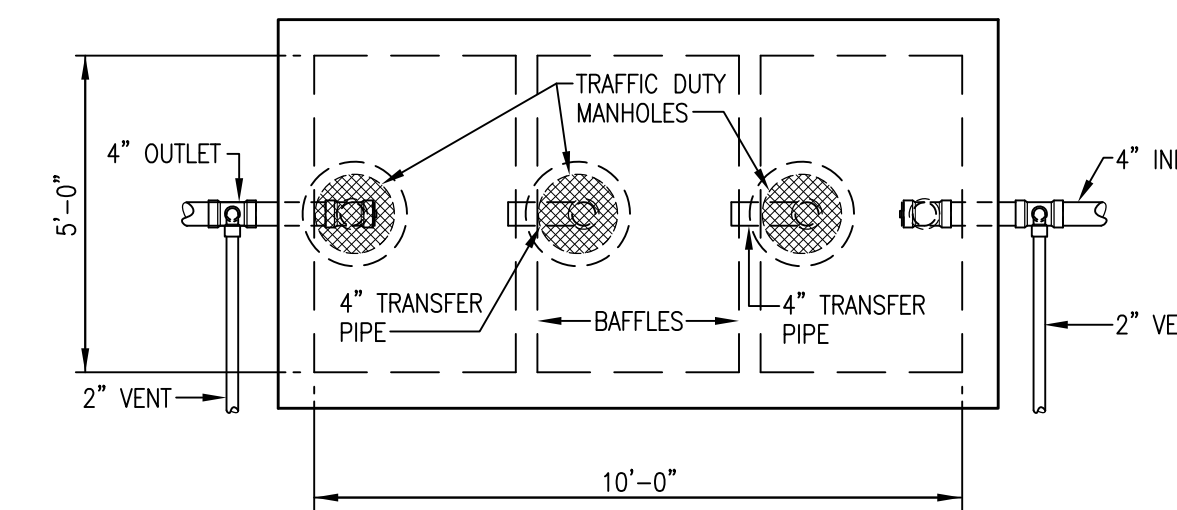


SAND & SEDIMENT TRAP DETAIL
NOT TO SCALE



- NOTES:**
1. PROVIDE TWO-WAY CLEANOUTS BEFORE, BETWEEN, AND AFTER GREASE TRAPS.
 2. PRECAST UNITS MAY BE INSTALLED, PROVIDED THEY ARE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND PIPING IS AS SHOWN ON THIS DETAIL.

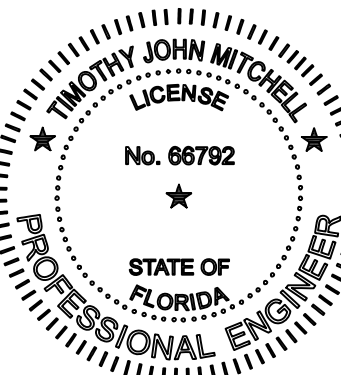
OIL/GAS/WATER AND GREASE INTERCEPTOR DETAIL
NOT TO SCALE



3. PROVIDE TWO-WAY CLEANOUTS BEFORE, BETWEEN, AND AFTER GREASE TRAPS.
4. FIELD VERIFY EXACT LOCATION FOR GREASE TRAPS AND COORDINATE THEIR INSTALLATION WITH PAVING, CONCRETE WALKS AND LANDSCAPING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL EXISTING CONCRETE PAVING AND UTILITIES DAMAGED DURING INSTALLATION.

OIL/GAS/WATER AND GREASE INTERCEPTOR (TOP VIEW)
NOT TO SCALE

Revision	

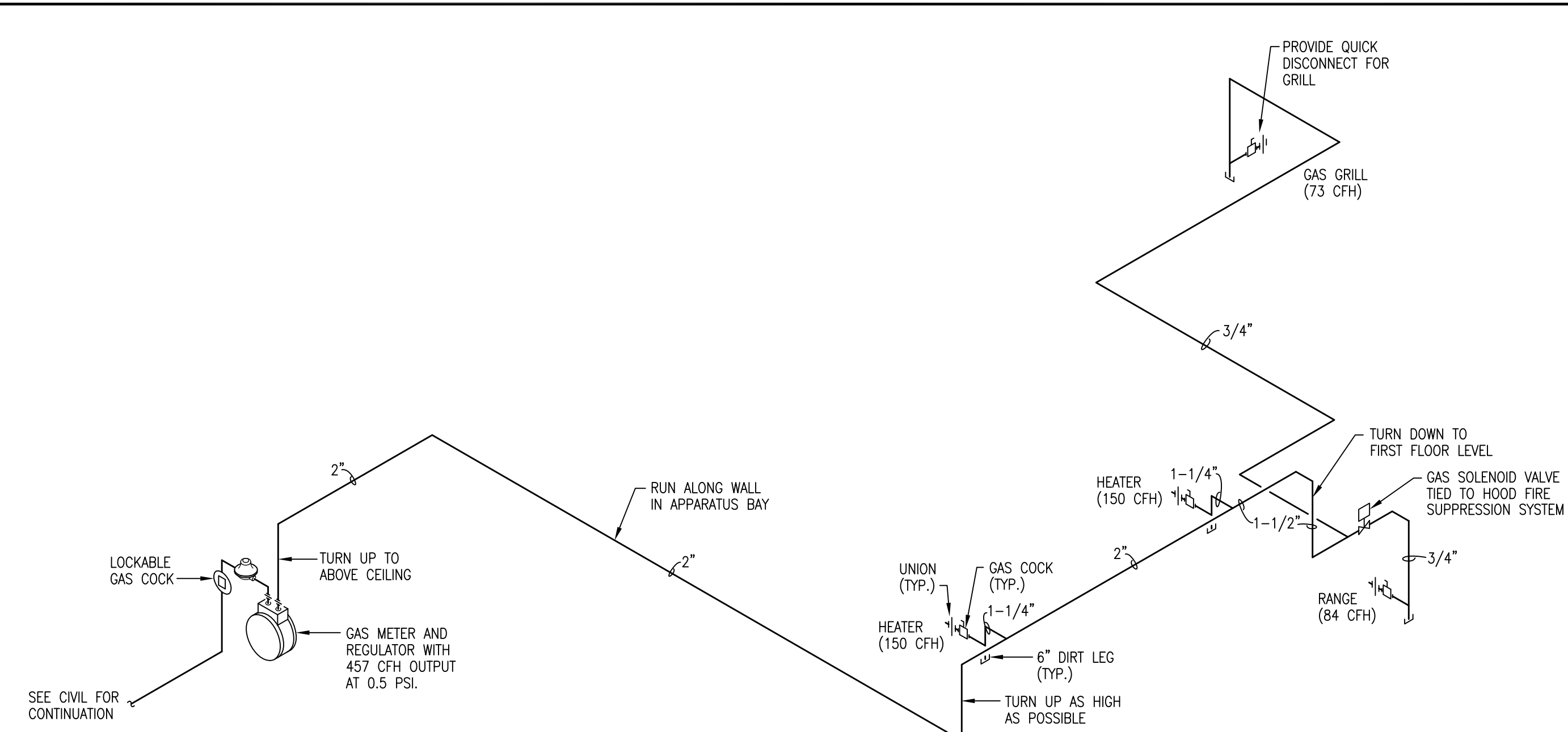


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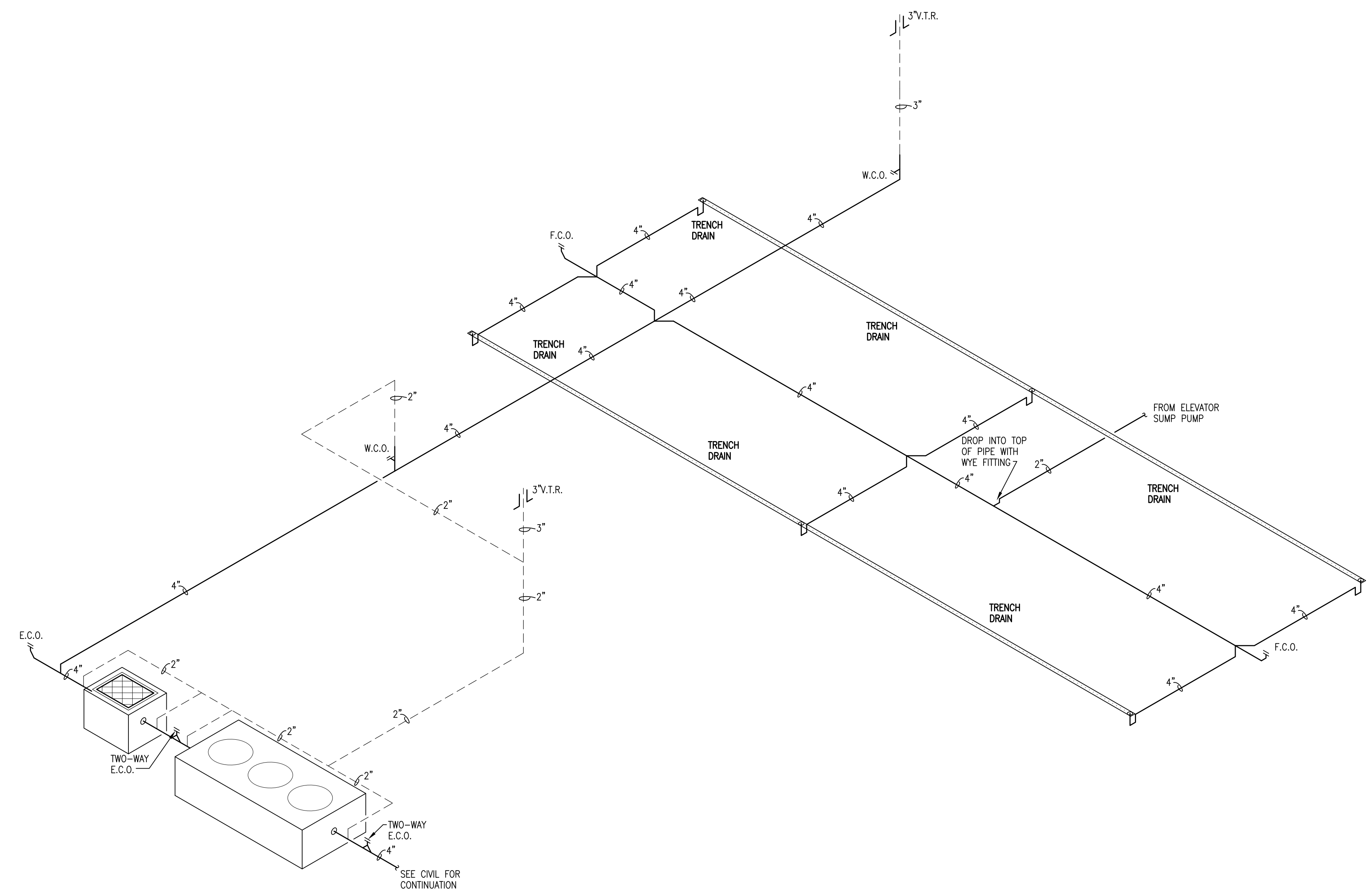
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NATURAL GAS RISER DIAGRAM
NO SCALE



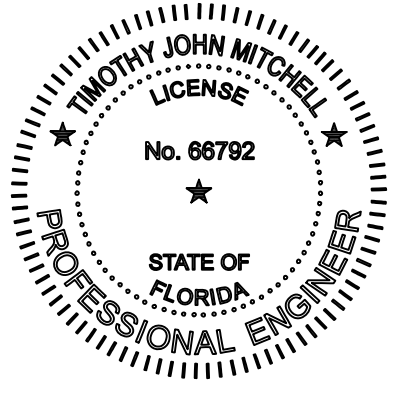
APPARATUS BAY - WASTE RISER DIAGRAM
NO SCALE

TOWNES + ARCHITECTS, P.A.
ARCHITECTS - PLANNERS
2421 NORTH 12th AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

PLUMBING RISER DIAGRAMS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



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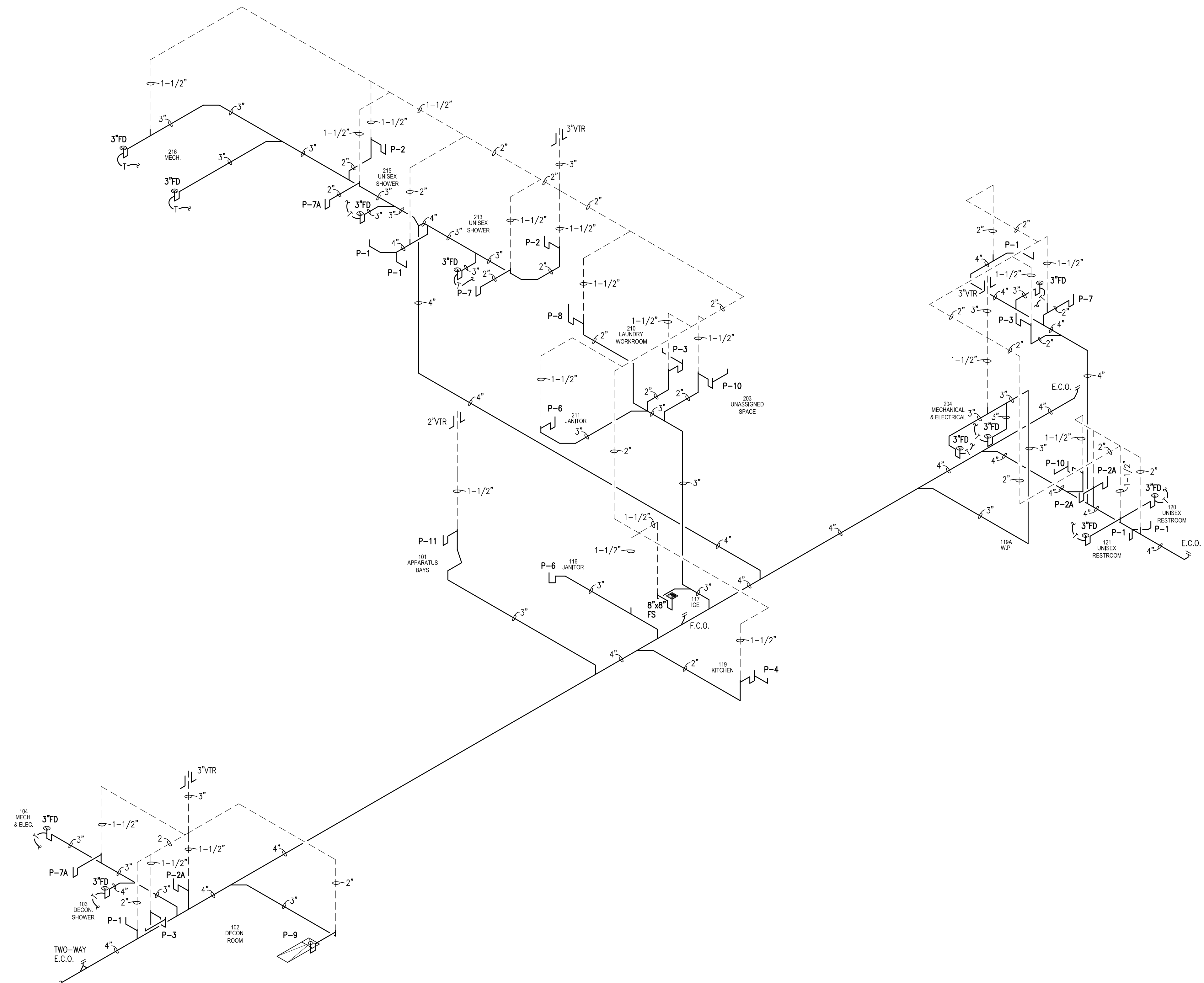
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PENSACOLA, FLORIDA 32502
PHONE: (850) 934-2661

CERTIFICATION OF AUTHORIZATION No. 5264
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
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WASTE RISER DIAGRAM
NO SCALE

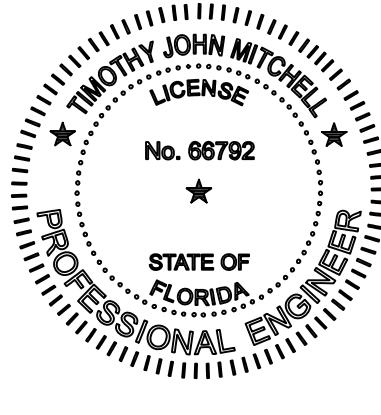
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2421 NORTH 12th AVENUE, PENSACOLA, FL 32503
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PLUMBING RISER DIAGRAMS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

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HOT WATER CIRCULATING PUMP SCHEDULE											
MARK	CONTROL WITH	CAPACITY GPM	T.D.H. FEET	MAX. RPM	PUMP CONSTRUCTION	PUMP SIZE	MOTOR H.P.	ELECTRICAL			REMARKS
								VOLTS	HZ	Ø	
CP#1	STRAP ON AQUASTAT	8	15	3250	CARTRIDGE/BRONZE	3/4"	1/8	120	60	1	
CP#2	STRAP ON AQUASTAT	8	15	3250	CARTRIDGE/BRONZE	3/4"	1/8	120	60	1	

WATER HEATER SCHEDULE										
MARK	CAPACITY (GALLONS)	RECOVERY GPH @ 80° RISE	ELECTRICAL DATA				REMARKS			
			VOLTS	PHASE	HZ	KW				
WH#1	50	47	208	3	60	9.0	NOTES 1, 2, 3			
WH#2	50	47	208	3	60	9.0	NOTES 1, 2, 3			

NOTES:

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

MIXING VALVE SCHEDULE							
MARK	INLET PIPE SIZE	OUTLET PIPE SIZE	DESIGN FLOW (GPM)	MAX. DIFF. PRESS.	METERED TEMPERATURE	REMARKS	
						①	②
MV#1	3/4"	3/4"	12	5 PSI	110°	①	②
MV#2	3/4"	1"	12	5 PSI	110°	①	②

- MINIMUM FLOW SHALL BE 1.0 GPM.
- CONTRACTOR SHALL PIPE VALVE PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS FOR A RECIRCULATED SYSTEM.
- MIXING VALVE SHALL FULLY COMPLY WITH ASSE 1017

PLUMBING FIXTURE CONNECTION SCHEDULE										
MARK	FIXTURE	CONNECTIONS				MAX. FIXTURE FLOW RATE	DESCRIPTION			
		WASTE	CW	HW (110°F)	HW (140°F)					
P-1	WATER CLOSET (ADA)	4"	1"	---	---	1.28 (gpf)	FLOOR MOUNTED, BOTTOM OUTLET, TOP SPUD, 18" HIGH ELONGATED BOWL. OPEN SEAT/LESS COVER. FLUSH VALVE WITH VACUUM BREAKER.			
P-2	COUNTER LAVATORY (ADA)	1-1/4"	1/2"	1/2"	---	0.5 (gpm)	20"x17" COUNTER MOUNTED OVAL, SINGLE COMP., 3 HOLE. SINGLE LEVER FAUCET, GRID STRAINER, 1-1/2" P-TRAP AND PAIR OF FLEXIBLE SUPPLIES WITH STOPS.			
P-2A	WALL HUNG LAVATORY (ADA)	1-1/4"	1/2"	1/2"	---	0.5 (gpm)	20"x18", WALL HUNG, SINGLE LEVER FAUCET W/ GRID DRAIN, 1-1/4" P-TRAP, FLEX. SUPPLY AND FLOOR SUPPORTED CONCEALED ARM CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.			
P-3	2-COMP LAUNDRY TUB	1-1/2"	1/2"	1/2"	---	2.2 (gpm)	TWO COMPARTMENT MOLDED STONE LAUNDRY TUB WITH ANGLE LEGS AND SWIVEL DECK MOUNTED WASHBOARD FAUCET, GRID STRAINER, 1-1/2" P-TRAP, FLEXIBLE SUPPLIES AND WALL STOPS. PROVIDE WITH FAUCET MOUNTED EYEWASH.			
P-4	2-COMP KITCHEN SINK	1-1/2"	1/2"	1/2"	---	1.0 (gpm)	33"x19", STAINLESS STEEL, DBLE. COMPARTMENT, 3-HOLE. DECK FAUCET. DUO- STRAINER, DIRECT CONNECTION, END OUTLET, CONTINUOUS WASTE. 1-1/2" 17 GA P-TRAP, FLEXIBLE SUPPLIES WITH ANGLE STOPS, 3/4HP GARBAGE DISPOSAL AND DISHWASHER CONNECTIONS.			
P-5	ICE MAKER/COFFEE MAKER VALVE BOX	---	3/8"	---	---	EXEMPT	RECESSED TYPE WITH COLD WATER STOP, MOUNT 48" AFF. (DUPLICATE FOR COFFEE MAKERS)			
P-6	JANITORS SINK	3"	1/2"	---	1/2"	1.5 (gpm)	FLOOR MOUNTED 24"x24"x12" CORNER TERRAZZO SERVICE BASIN, 3" OUTLET, WALL MOUNTED FAUCET SHALL BE CHROME PLATED W/VACUUM BREAKER STOPS, WALL BRACE, WALL GUARDS AND PAIL HOOK.			
P-7	SHOWER	2"	1/2"	1/2"	---	1.5 (gpm)	60"x36" SHOWER BASE WITH TILE WALLS, GRAB BAR AND FOLDING BENCH. PROVIDE SHOWER MIXING VALVE WITH SCALD GUARD, SHOWER HEAD, HAND HELD SHOWER HEAD AND SHOWER DRAIN.			
P-7A	SHOWER (ADA)	2"	1/2"	1/2"	---	1.5 (gpm)	63-1/4"x39-3/8" ROLL-IN SHOWER BASE WITH TILE WALLS, GRAB BAR AND FOLDING BENCH. PROVIDE SHOWER MIXING VALVE WITH SCALD GUARD, SHOWER HEAD, HAND HELD SHOWER HEAD AND SHOWER DRAIN.			
P-8	WASHING MACHINE VALVE BOX	2"	1/2"	1/2"	---	EXEMPT	RECESSED IN WALL WITH TWO 1/2" WATER CONNECTIONS AND 2" CENTERED DRAIN CONNECTION.			
P-9	DECON WASHING MACHINE CONNECTIONS	3"	3/4"	3/4"	---	EXEMPT	WALL MOUNTED HOSE VALVES FOR WATER SUPPLY WITH LAUNDRY DRAIN FLOOR TRENCH RECESSED IN FLOOR SLAB - SEE DETAIL.			
P-10	HI/LOW WATER COOLER WITH BOTTLE FILLER	1-1/2"	1/2"	---	---	EXEMPT	WALL HUNG, ADA APPROVED WATER COOLER AND BOTTLE FILLER WITH 1-1/2", 17 GA P-TRAP, FLEXIBLE SUPPLY W/ANGLE STOP. FLOOR MOUNTED CARRIER W/ BEARING PLATE.			
P-11	HAND SINK	1-1/4"	1/2"	1/2"	---	0.5 (gpm)	20"x18", WALL HUNG, SINGLE LEVER FAUCET W/ GRID DRAIN, 1-1/4" P-TRAP, FLEX. SUPPLY AND FLOOR SUPPORTED CONCEALED ARM CARRIER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.			

NOTE: ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS INDICATED OTHERWISE.
PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURES AND ROUGH-IN REQUIREMENTS WITH EQUIPMENT SUPPLIER.

INSTANTANEOUS WATER HEATER SCHEDULE										
MARK	TEMPERATURE RISE	ACTIVATION FLOW	OUTLET LWT	ELECTRICAL					REMARKS	
				VOLTS	HZ	PHASE	KW	AMPS		
IWH#1	56°F (0.5 GPM)	0.3 GPM	110°F	208	60	1	4.1	20A	THERMOSTATIC CONTROL OF OUTLET TEMPERATURE	
IWH#2	56°F (0.5 GPM)	0.3 GPM	110°F	208	60	1	4.1	20A	THERMOSTATIC CONTROL OF OUTLET TEMPERATURE	

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

- BASIS OF DESIGN - STANCOR OIL MINDER S550.
- PROVIDE WITH PUMP ON FLOAT, HIGH ALARM FLOAT, CONTROL PANEL AND POWER CABLE.

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
FD	FLOOR DRAIN
FP	FUEL PUMP
FS	FLOOR SINK
HW	HOT WATER
HWR	HOT WATER RETURN
ORD	OVERFLOW RAIN DRAIN
ORL	OVERFLOW RAIN LEADER
RD	ROOF DRAIN
RL	PRIMARY RAIN LEADER
T	TANK
WCO	WALL CLEANOUT

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

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TIMOTHY J. MITCHELL, P.E. ON DECEMBER 15, 2023.

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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. 66792
ELECTRICAL ENGINEER ARJUN T. VARGHESE, P.E. FLORIDA REG No. 79319

H. M. YONGE AND ASSOC. JOB# 23-005

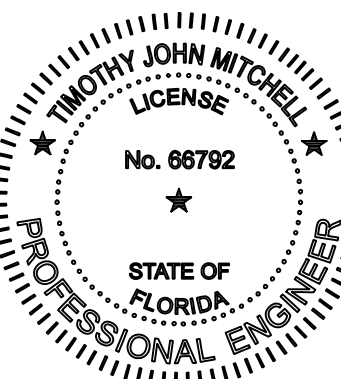
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ARCHITECTS - PLANNERS
2421 NORTH 12th AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

PLUMBING SCHEDULES
AND LEGEND

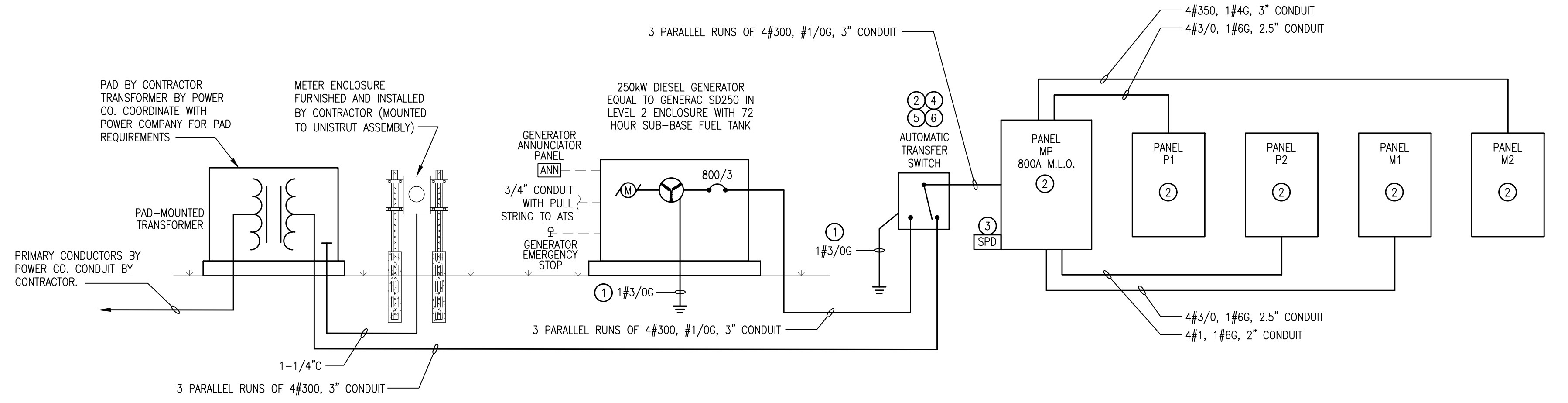
HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE.
	EXIT LIGHT, DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE.
	PANELBOARD - SEE RESPECTIVE PANELBOARD SCHEDULE. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROWS INDICATE CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = #12 AWG.
	HEAVY DUTY SAFETY SWITCH - SIZE AND TYPE AS NOTED. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
	ELECTRIC MOTOR
	20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH - FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 - 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 - 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH M - FRACTIONAL HP SWITCH 30 AMP EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL. DT - DUAL TECHNOLOGY WALL SWITCH WATTSTOPPER DSW-100 OR EQUAL.
	INDICATES WIRING DEVICE WITH WEATHER PROOF COVER PLATE.
	INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 42" AFF OR 6" ABOVE COUNTERTOP OR IN BACKSPLASH. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED DIRECTLY ADJACENT TO CATV OUTLET.
	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUND FAULT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL-MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
	SPECIAL NEMA TYPE RECEPTACLE. PLUG TO MATCH EQUIPMENT BEING PROVIDED.
	RETRACTABLE PLUG REEL.
	JUNCTION BOX.
	POWER RELAY. PROVIDE WITH NEMA 1 ENCLOSURE. MOUNT IN ACCESSIBLE SPACE. SEE MECHANICAL SCHEDULES FOR INTERLOCK REQUIREMENTS.
	DUPLEX VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 2 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE WITH 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHINGS. PROVIDE 2-CATSE VOICE/DATA CABLES BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 2-PORT COVER PLATE EQUAL TO COOPER CAT# 5520. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
	CABLE TV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ANY ROUGH-IN. PROVIDE SINGLE-GANG JUNCTION BOX. PROVIDE 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHINGS. PROVIDE 1-CATV COAX CABLE BACK TO COMMUNICATIONS BACKBOARD. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
	ALT#4 - 16 GAUGE WIRE, BELDEN 8471, 2 CONDUCTOR LOUD SPEAKER WIRE.
	ALT#4 - CEILING MOUNTED SPEAKER BOGEN MODEL S8672SPGBWRVX.
	ALT#4 - WALL-MOUNTED VOLUME CONTROL BOGEN MODEL AT-10A WITH J-BOX.
	ALT#4 - WALL-MOUNTED SPEAKER BOGEN MODEL WB1EZ WALL BAFFLE SPEAKER.
	ALT#4 - WALL-MOUNTED SPEAKER BOGAN MODEL SPT15A.
	FIRE ALARM SYSTEM PULL STATION - SEMI FLUSH MOUNTED 48" A.F.F. TO CENTER UNLESS NOTED OTHERWISE. PROVIDE CLEAR PULL STATION LIFT COVER GUARD WITH STOPPER II.
	FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE.
	FIRE ALARM SYSTEM AUDIO / VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
	FIRE ALARM SYSTEM VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
	CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR.
	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
	SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
	FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR COMPLETE WITH HOUSING AND AIR SAMPLING TUBES. "S" DENOTES DETECTOR IN SUPPLY DUCT; "R" DENOTES DETECTOR IN RETURN DUCT.
	FIRE ALARM SYSTEM FAN SHUTDOWN RELAY - MOUNTED AT EQUIPMENT.
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM REMOTE ANNUNCIATOR.
SYMBOLS NOTES: 1. ALL OUTLETS ARE TO BE FLUSH MOUNTED. 2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE. 3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING. 4. ALL MULTI - GANG DEVICES SHALL USE A COMMON COVER PLATE 5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, ETC.) SHALL BE IVORY AND THEIR COVER PLATES SHALL BE 302 STAINLESS. 6. AFF INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR. 7. AFG INDICATES MOUNTING HEIGHT ABOVE FINISHED GRADE.	

PROVIDE LIGHTING SYSTEM PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 WITH A UL MASTER LABEL.



SINGLE LINE RISER DIAGRAM
NOT TO SCALE

SINGLE LINE RISER DIAGRAM KEYNOTES

- ① GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.
 - ② ELECTRICAL EQUIPMENT SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B).
 - ③ PROVIDE EXTERNAL, SERVICE ENTRANCE RATED, CATEGORY-C SURGE PROTECTION DEVICE, 10-MODE, 240KA PER PHASE. DEVICE SHALL BE MOUNTED WITHIN 18" OF THE PANEL.
 - ④ 600A/3-POLE, CUMMINS OTPC SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH (ATS) OR EQUAL, 65,000 AIC RATING, IN NEMA 3R ENCLOSURE.
 - ⑤ PROVIDE PHENOLIC LABEL AFFIXED TO ATS INDICATING THE AVAILABLE SCA - 42,233, ALONG WITH THE DATE OF THE INSTALLATION.
 - ⑥ IN ORDER TO LIMIT INRUSH ON THE GENERATOR, MULTIPLE STEPS SHALL BE PROVIDED FOR THE LOADS AS FOLLOWS:
 1. EACH SPLIT SYSTEM SHALL BE PROVIDED WITH THEIR OWN STEP.
 2. THE REMAINING LOAD SHALL BE PROVIDED WITH ITS OWN STEP.
- COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE EACH SPLIT SYSTEM IS STEPPED SEQUENTIALLY AND INDEPENDENTLY OF THE REMAINING LOAD. PROVIDE ADDITIONAL RELAYS AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

MARK	LUMENS	WATTS	LAMPS	TYPE	MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
CF	N/A	60	N/A	N/A	SURFACE/PENDANT	MINKA-AIRE F896-65-FINISH	COORDINATE FINISH AND MOUNTING HEIGHT WITH THE ARCHITECT.
DL4	N/A	36.5	N/A	N/A	RECESSED	HE WILLIAMS 6DR L40 9 35 DM UNV 0 W OF CS MWT HE WILLIAMS 6DR L40 9 35 DM UNV 0 W OF CS MWT EM	
DL8	N/A	36.5	N/A	N/A	RECESSED	HE WILLIAMS 6DR L80 9 35 DM UNV 0 W OF CS MWT HE WILLIAMS 6DR L80 9 35 DM UNV 0 W OF CS MWT EM	
EPL	4000	38	LED	35K	ELEVATOR PIT	PHILIPS V2-W-P-WATER TIGHT HUBS-43L-835-4-UNV-IP67	
EX	N/A	N/A	LED	UNIVERSAL	UNIVERSAL	HE WILLIAMS EXIT-R-EM-WHT-0	
HB	3205	28	LED	40K	WALL 10\"/>		

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

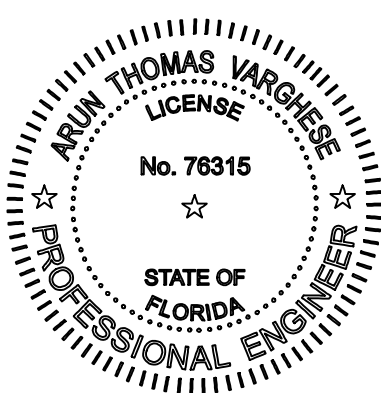
MARK	ITEM	VOLTAGE/Ø	DISCONNECT SWITCH	FEEDER		
				CONDUCTORS	GROUND	CONDUIT
VF#1	VENT FAN	120/1	TOGGLE SWITCH	2#12	#12	3/4"
VF#2	VENT FAN	120/1	TOGGLE SWITCH	2#12	#12	3/4"
VF#3	BIG ASS FAN	208/3	TOGGLE SWITCH	3#12	#12	3/4"
VF#4	BIG ASS FAN	208/3	TOGGLE SWITCH	3#12	#12	3/4"
DAU#1	OUTDOOR AIR HANDLING UNIT	208/3	100/3 N1	3#4	#8	1-1/4"
OCU#1	OUTDOOR CONDENSING UNIT	208/3	60/3 N3R	3#8	#10	3/4"
AHU#1	AIR HANDLING UNIT	208/3	60/3 N1	3#8	#10	3/4"
AHU#2	AIR HANDLING UNIT	208/3	30/3 N1	3#10	#10	3/4"
AHU#3	AIR HANDLING UNIT	208/1	60/2 N1	2#8	#10	3/4"
AHU#4	AIR HANDLING UNIT	208/3	60/3 N1	3#8	#10	3/4"
HPU#1	HEAT PUMP UNIT	208/3	30/3 N3R	3#10	#10	3/4"
HPU#2	HEAT PUMP UNIT	208/3	30/3 N3R	3#10	#10	3/4"
HPU#3	HEAT PUMP UNIT	208/1	30/2 N3R	2#10	#10	3/4"
HPU#4	HEAT PUMP UNIT	208/3	30/3 N3R	3#10	#10	3/4"
WH#1	WATER HEATER	208/3	60/3 N1	3#8	#10	3/4"
WH#1	WATER HEATER	208/1	TOGGLE SWITCH	2#10	#10	3/4"
WH#2	WATER HEATER	208/1	TOGGLE SWITCH	2#10	#10	3/4"

TOWNES + ARCHITECTS, P.A.
ARCHITECTS - PLANNERS
2421 NORTH 12TH AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

ELECTRICAL SYMBOL LEGEND, SCHEDULES, AND RISER

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	

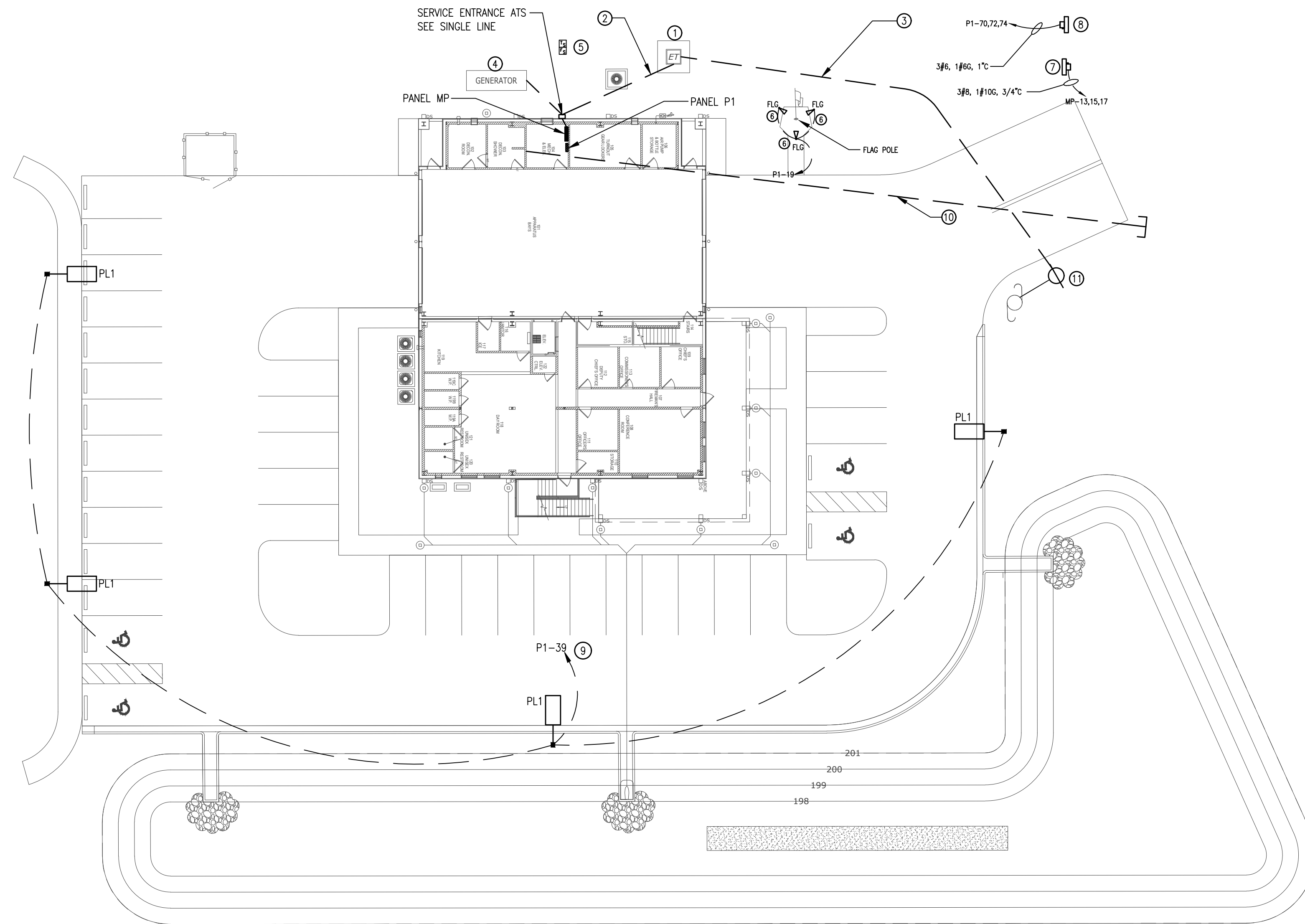


H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)334-2661
CERTIFICATION OF AUTHORIZATION No. 5284
MECHANICAL ENGINEER HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
MECHANICAL ENGINEER TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 86792
ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319
H.M. YONGE AND ASSOC., JOB# 23-005

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SITE PLAN KEY NOTES:

- ① NEW PAD MOUNT TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ANY ROUGH-IN. SEE ELECTRICAL SINGLE LINE DIAGRAM.
- ② NEW UNDERGROUND ELECTRICAL SERVICE. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ANY ROUGH-IN. SEE ELECTRICAL SINGLE LINE DIAGRAM.
- ③ NEW PRIMARY CONDUITS BY CONTRACTOR. CONDUITS SHALL BE INSTALLED IN UTILITY EASEMENT, COORDINATE WITH CIVIL. SEE ELECTRICAL SINGLE LINE DIAGRAM.
- ④ LOCATION OF NEW GENERATOR. SEE SINGLE LINE DIAGRAM AND POWER PLAN FOR REQUIREMENTS.
- ⑤ COORDINATE EXACT LOCATION OF FIRE PROTECTION BACKFLOW PREVENTER WITH CIVIL ENGINEER.
- ⑥ COORDINATE EXACT LOCATION OF FIXTURE WITH FLAG POLE.
- ⑦ APPROXIMATE LOCATION OF LIFT STATION CONTROLLER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE CIVIL DRAWINGS/ENGINEER. PROVIDE CONNECTIONS TO PUMP(S) AS REQUIRED BY CIVIL DRAWINGS. PROVIDE UNISTRUT WITH GALVANIZED HARDWARE FOR DISCONNECT WHERE DISCONNECT IS NOT INTEGRAL TO THE CONTROLLER. DISCONNECT SIZE SHALL BE 60/3 NEMA 3R.
- ⑧ APPROXIMATE LOCATION OF STORMWATER PUMP STATION. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE CIVIL DRAWINGS/ENGINEER. PROVIDE CONNECTIONS TO PUMP(S) AS REQUIRED BY CIVIL DRAWINGS. PROVIDE UNISTRUT WITH GALVANIZED HARDWARE FOR DISCONNECT WHERE DISCONNECT IS NOT INTEGRAL TO THE STATION. DISCONNECT SIZE SHALL BE 30/3 NEMA 3R.
- ⑨ HOMERUN SHALL BE ROUTED THROUGH INTERMATIC ET8000 ASTRONOMIC TIME CLOCK IN NEMA 3R ENCLOSURE, COORDINATE TIME OF DAY SCHEDULE WITH OWNER, TIME CLOCK SHALL BE INSTALLED ADJACENT TO SERVING PANELBOARD.
- ⑩ PROVIDE TWO 4" CONDUITS WITH PULL STRING RUN CONTINUOUS FROM EDGE OF PROPERTY LINE, ROUTED 24" BELOW GRADE, TO TELEPHONE/DATA/TV JUNCTION POINT FOR BUILDING COMM SERVICES. CABLE PROVIDED AND INSTALLED BY LOCAL UTILITY COMPANY.
- ⑪ NEW RISER POLE AND GUY.



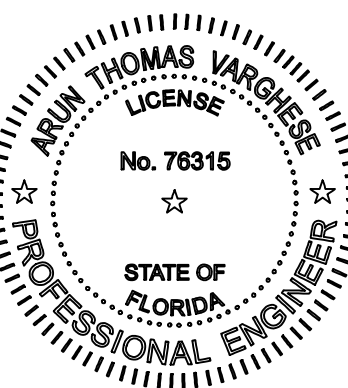
ELECTRICAL SITE PLAN
SCALE: 1"=20'

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ARCHITECTS - PLANNERS
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PH: (850) 433-0203
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ELECTRICAL SITE PLAN

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

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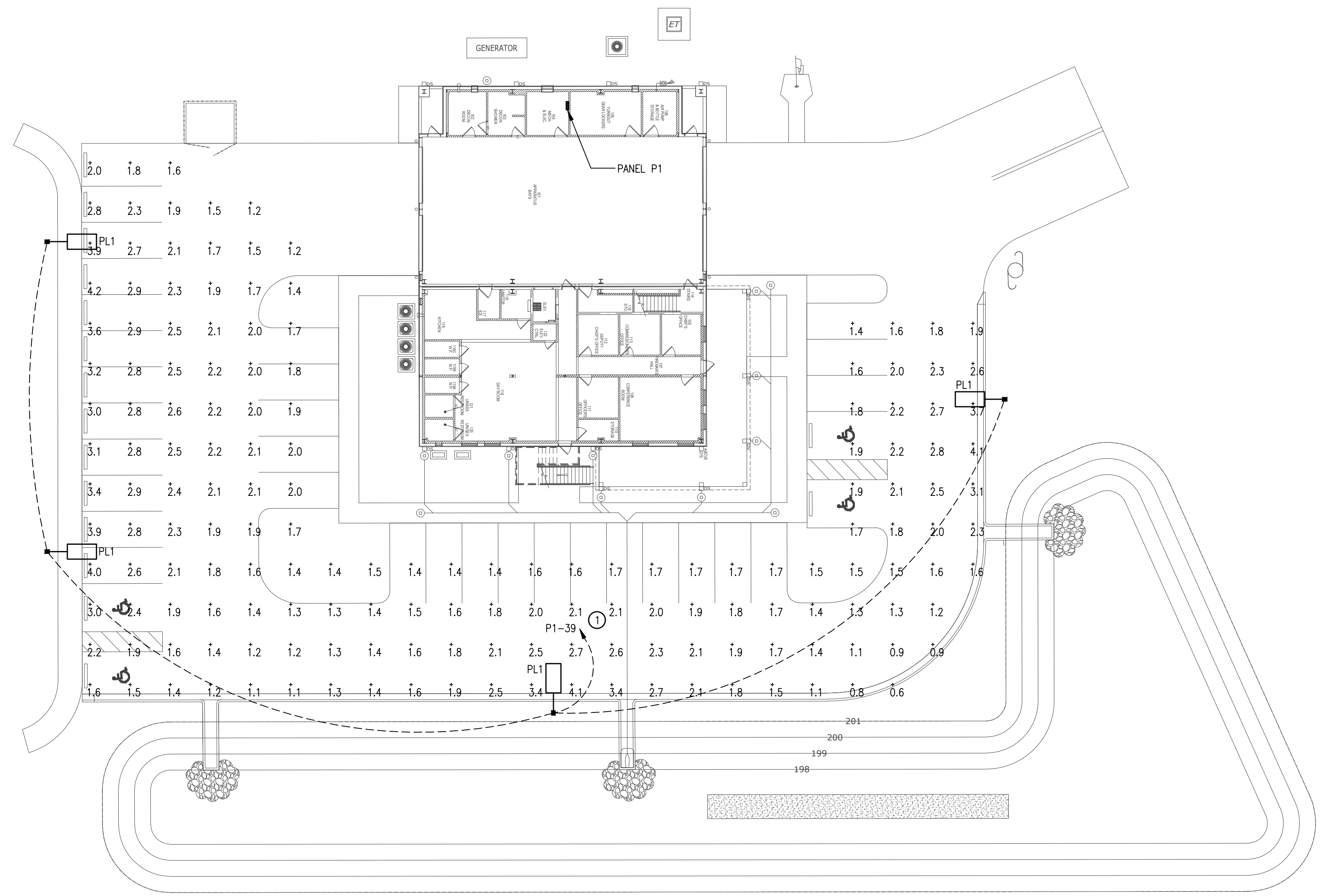
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CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)334-2661

CERTIFICATION OF AUTHORIZATION No. 5264
MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG No. 32093
MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG No. 66792
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Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING LOT	Illuminance	Fc	2.01	4.2	0.6	3.35	7.00



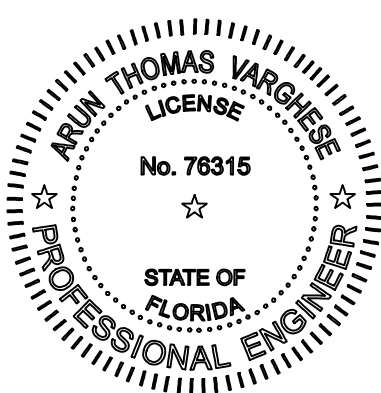
PHOTOMETRIC PLAN
SCALE: 1"=20'

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ARCHITECTS - PLANNERS
2421 NORTH 12th AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203 AA-26001051

PHOTOMETRIC PLAN

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



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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
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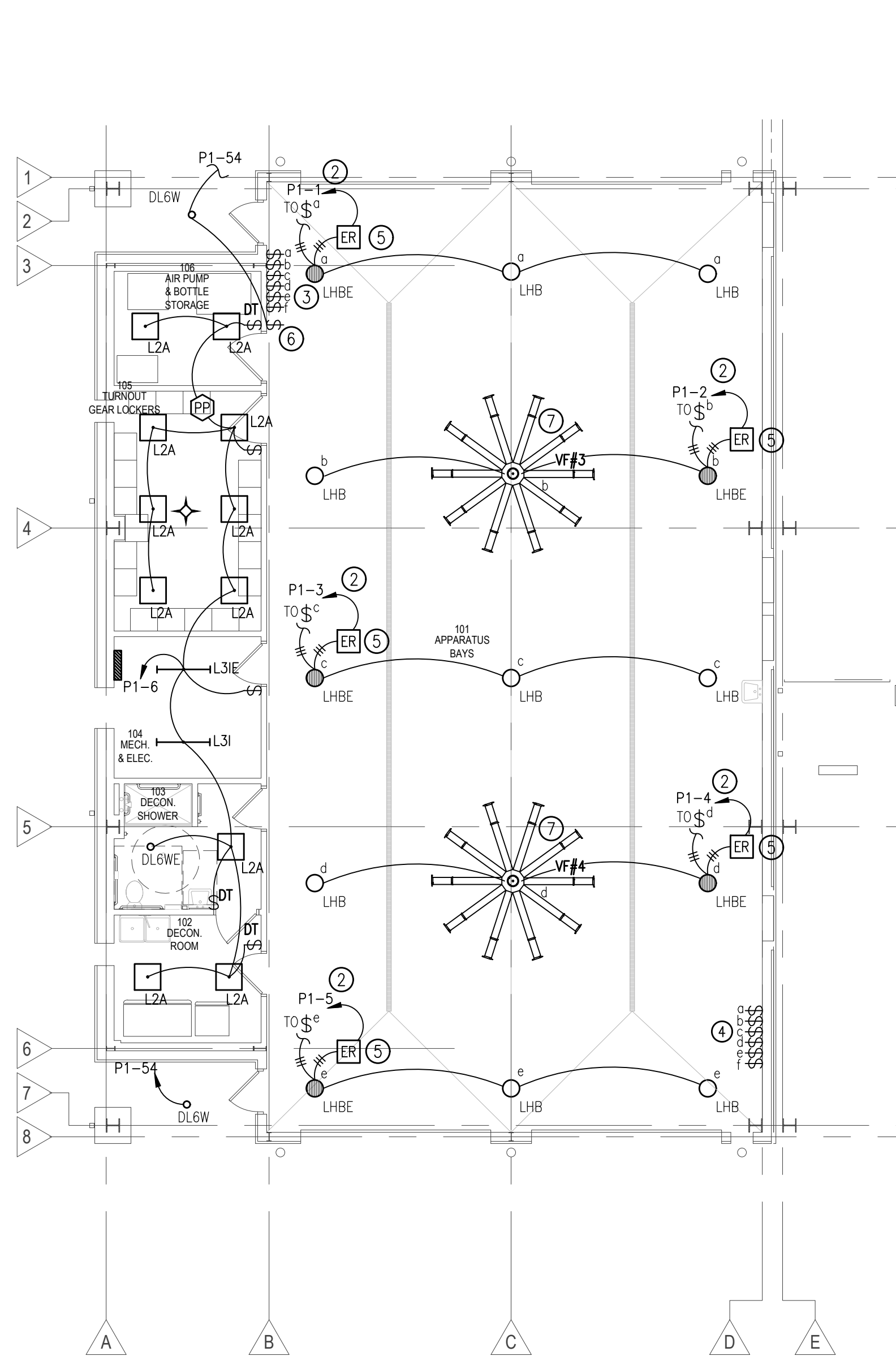
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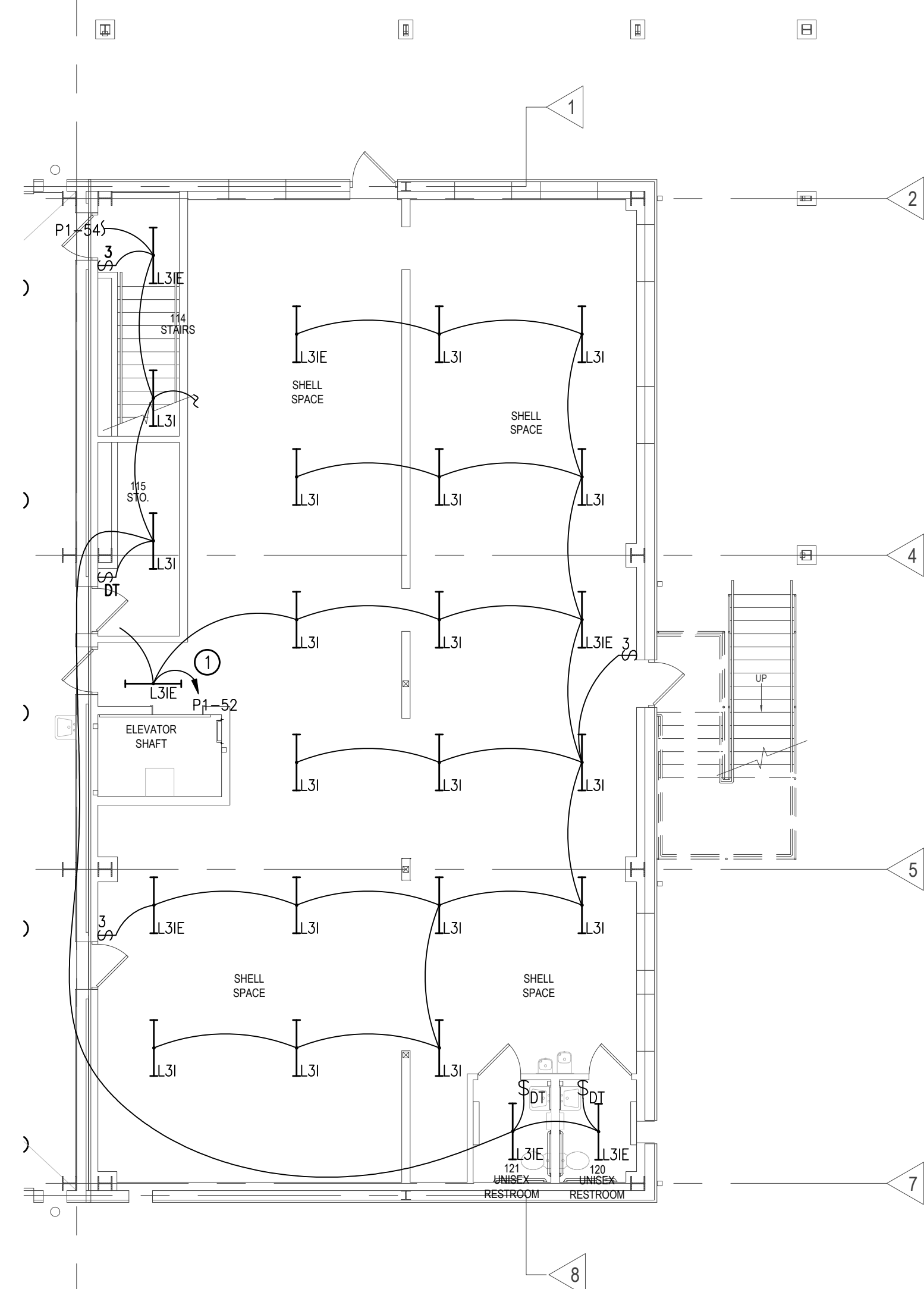
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LIGHTING PLAN KEY NOTES:

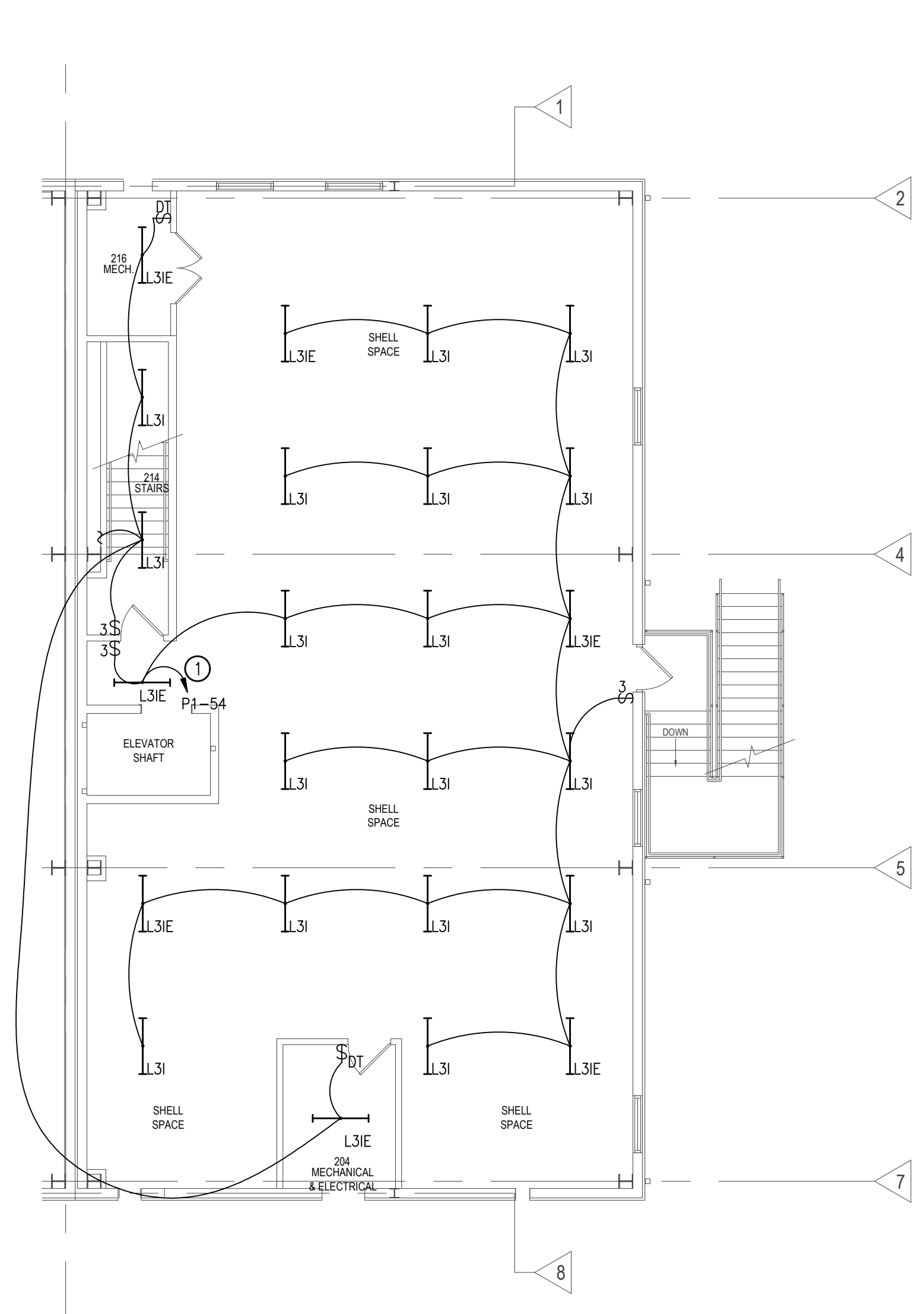
- ① HOMERUN SHALL BE ROUTED THROUGH INTERMATIC ET8000 ASTRONOMIC TIME CLOCK IN NEMA 3R ENCLOSURE, COORDINATE TIME OF DAY SCHEDULE WITH OWNER, TIME CLOCK SHALL BE INSTALLED ADJACENT TO SERVING PANELBOARD.
- ② CIRCUIT SHALL BE CONTROLLED WITH TIME CONTACTOR VIA ASTRONOMIC TIMECLOCK. COORDINATE WITH OWNER FOR TIME OF DAY SWITCHING.
- ③ SIX 3-WAY DIMMER WALL SWITCHES GROUPED IN TWO SEPARATE 3-GANG CONFIGURATIONS. EACH CONFIGURATION SHALL BE PROVIDED WITH A COMMON COVER PLATE. SUBSCRIPT INDICATES CORRESPONDING ZONE SERVED BY EACH SWITCH.
- ④ SIX 3-WAY DIMMER WALL SWITCHES GROUPED IN TWO SEPARATE 3-GANG CONFIGURATIONS. EACH CONFIGURATION SHALL BE PROVIDED WITH A COMMON COVER PLATE. SUBSCRIPT INDICATES CORRESPONDING ZONE SERVED BY EACH SWITCH.
- ⑤ PROVIDE AN EMERGENCY POWER CONTROL RELAY WITH 0-10V CAPABILITIES THAT OVERRIDES THE DIMMER SWITCH TO RETURN THE DESIGNATED EMERGENCY LIGHTING FIXTURES TO 100% OUTPUT CAPACITY.
- ⑥ SWITCH TO CONTROL OUTSIDE DL6W'S.
- ⑦ BIG ASS FAN IS PROVIDED WITH SEPARATE DUAL CIRCUITS (FAN MOTOR AND LIGHT KIT). PROVIDE POWER AND SWITCH CONNECTION FROM HIGH-BAY LIGHTING CIRCUITRY, AS INDICATED, TO FAN LIGHT KIT. COORDINATE WITH MANUFACTURER FOR WIRING REQUIREMENTS AS NECESSARY. SEE POWER PLAN FOR FAN MOTOR CONNECTION REQUIREMENTS.



1 LIGHTING FIRST FLOOR PLAN - BASE BID
SCALE: 1/8"=1'-0"



2 LIGHTING FIRST FLOOR PLAN - BID ALTERNATE #1
SCALE: 1/8"=1'-0"



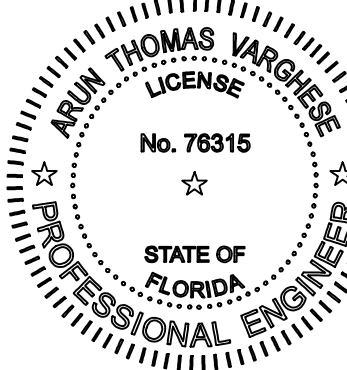
3 LIGHTING SECOND FLOOR PLAN - BID ALTERNATE #1
SCALE: 1/8"=1'-0"

TOWNES + ARCHITECTS, P.A.
ARCHITECTS - PLANNERS
2421 NORTH 12TH AVENUE, PENSACOLA, FL 32503
PH: (850) 433-0203
AA-26001051

LIGHTING
BASE BID AND
BID ALTERNATE #1 PLANS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	By	Date

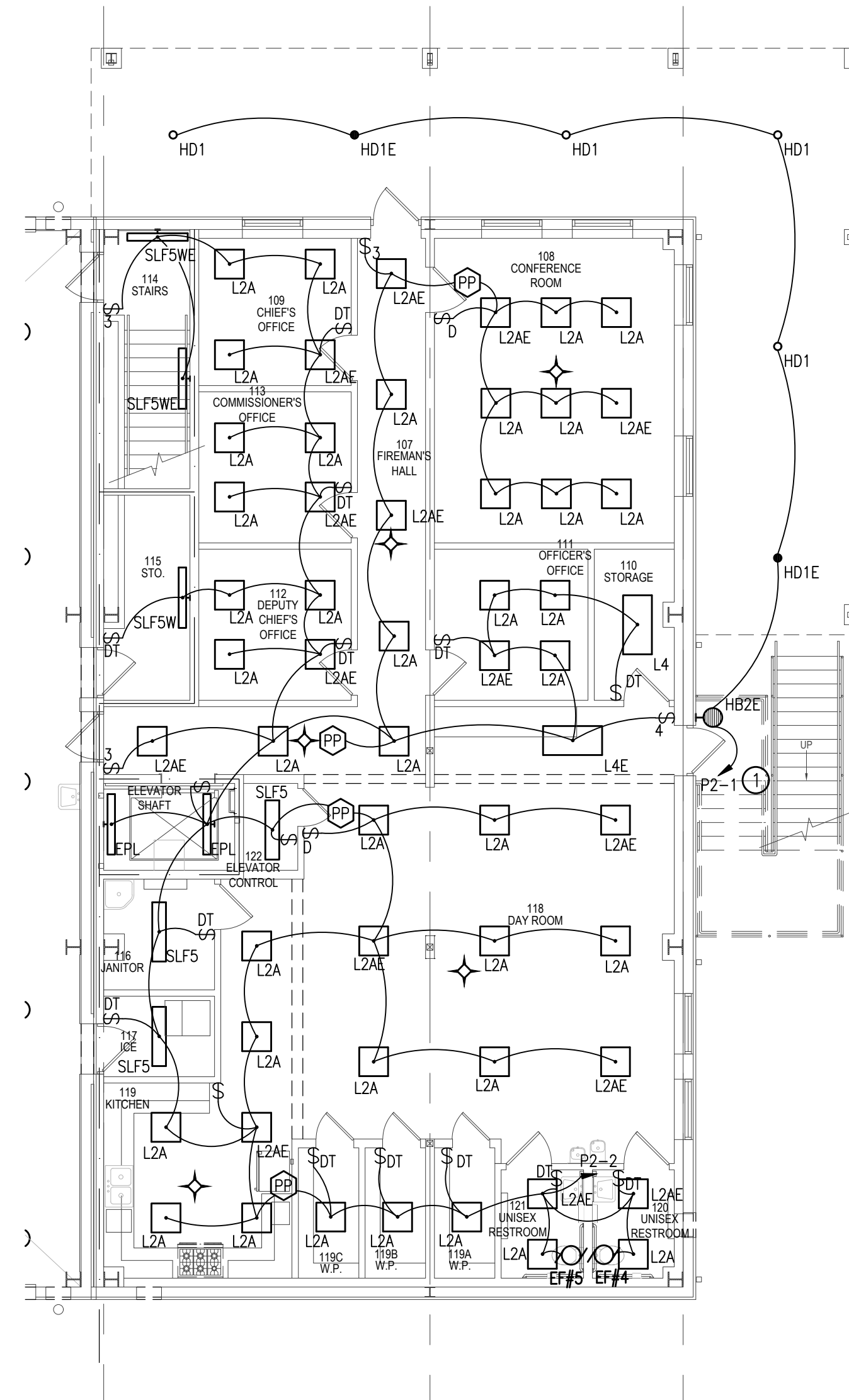


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ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319
H. M. YONGE AND ASSOC. JOB# 23-005

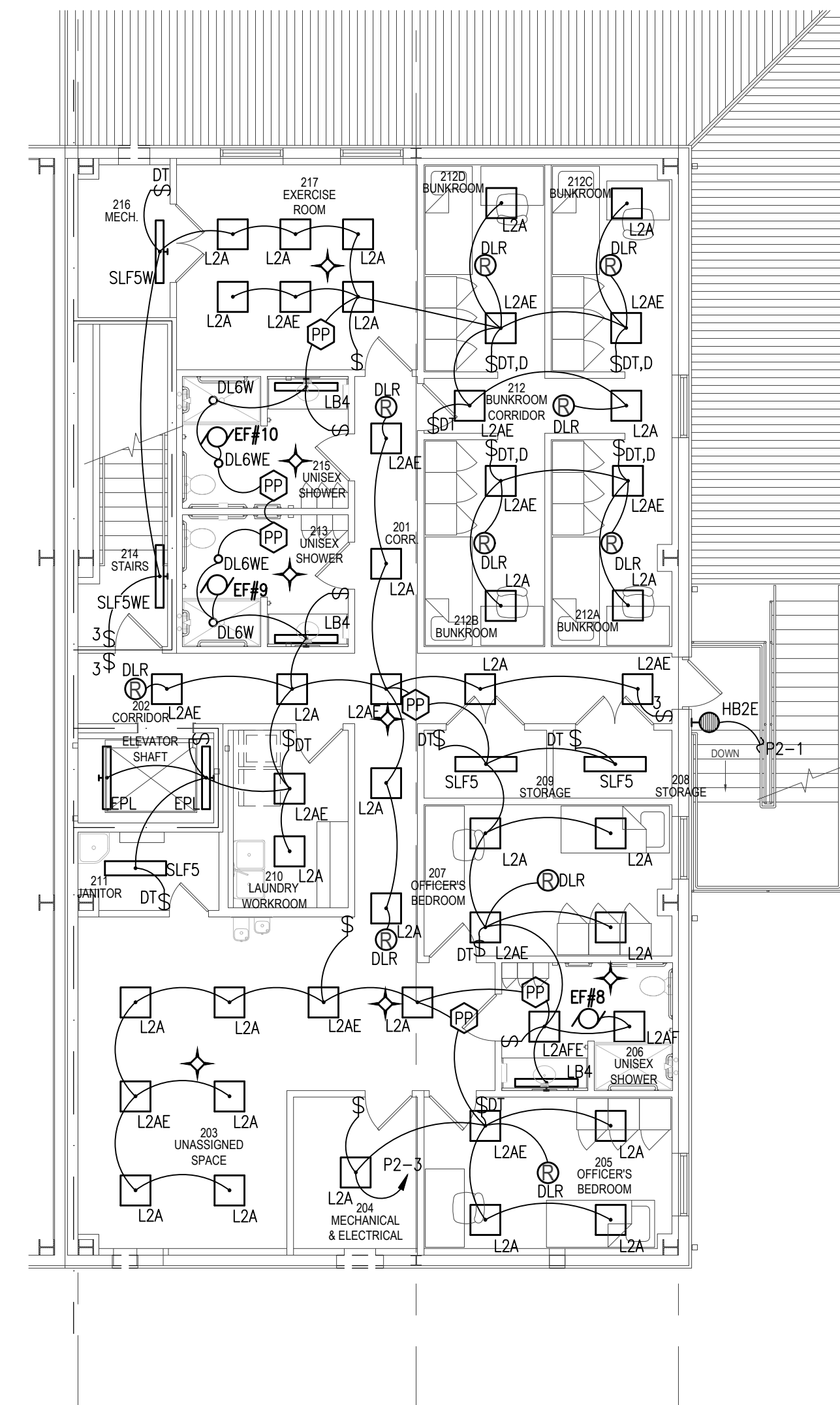
CONSTRUCTION DOCS
Scale: AS NOTED
Date: 12.18.2023
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SHEET #

LIGHTING PLAN KEY NOTES:

- ① ROUTE THROUGH PHOTOCELL.



1 LIGHTING FIRST FLOOR PLAN - BID ALTERNATE #2
SCALE: 1/8"=1'-0"



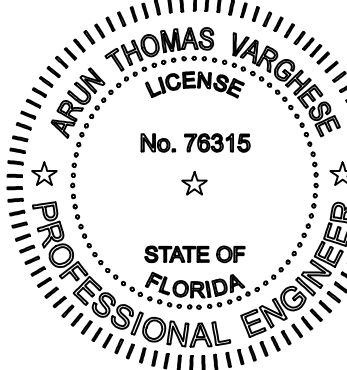
2 LIGHTING SECOND FLOOR PLAN - BID ALTERNATE #2
SCALE: 1/8"=1'-0"

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ARCHITECTS - PLANNERS
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PH: (850) 433-0203 AA-26001051

LIGHTING
BID ALTERNATE #2 PLANS

HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

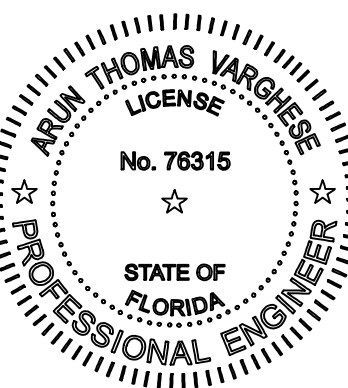
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CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
CERTIFICATION OF AUTHORIZATION No. 5264
MECHANICAL ENGINEER: HOWARD M. YONGE, P.E. FLORIDA REG NO. 32093
MECHANICAL ENGINEER: TIMOTHY J. MITCHELL, P.E. FLORIDA REG NO. 66792
ELECTRICAL ENGINEER: ARUN T. VARGHESE, P.E. FLORIDA REG NO. 79319
H. M. YONGE AND ASSOC. JOB# 23-005

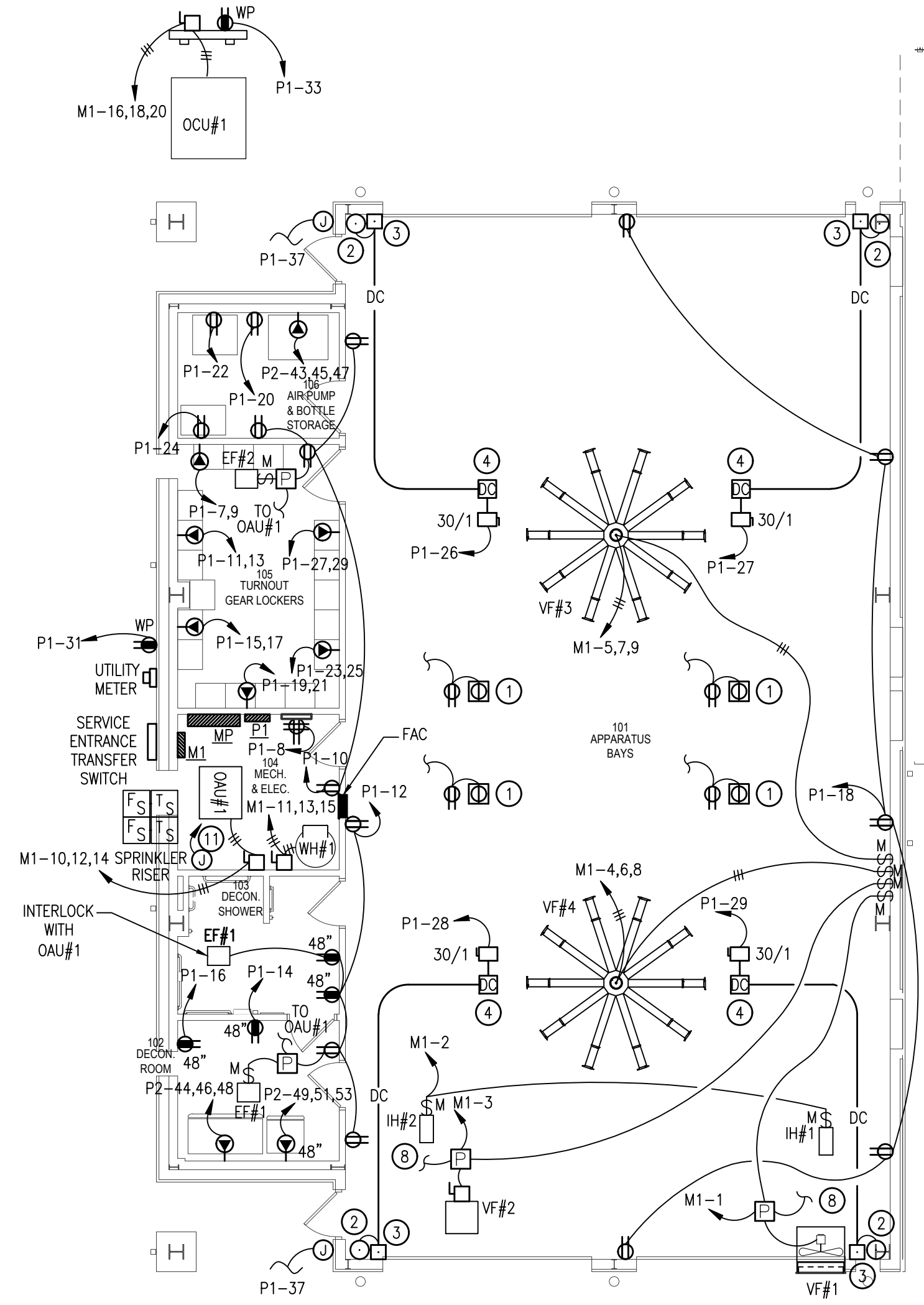
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Date: 12.18.2023
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SHEET #

Revision	

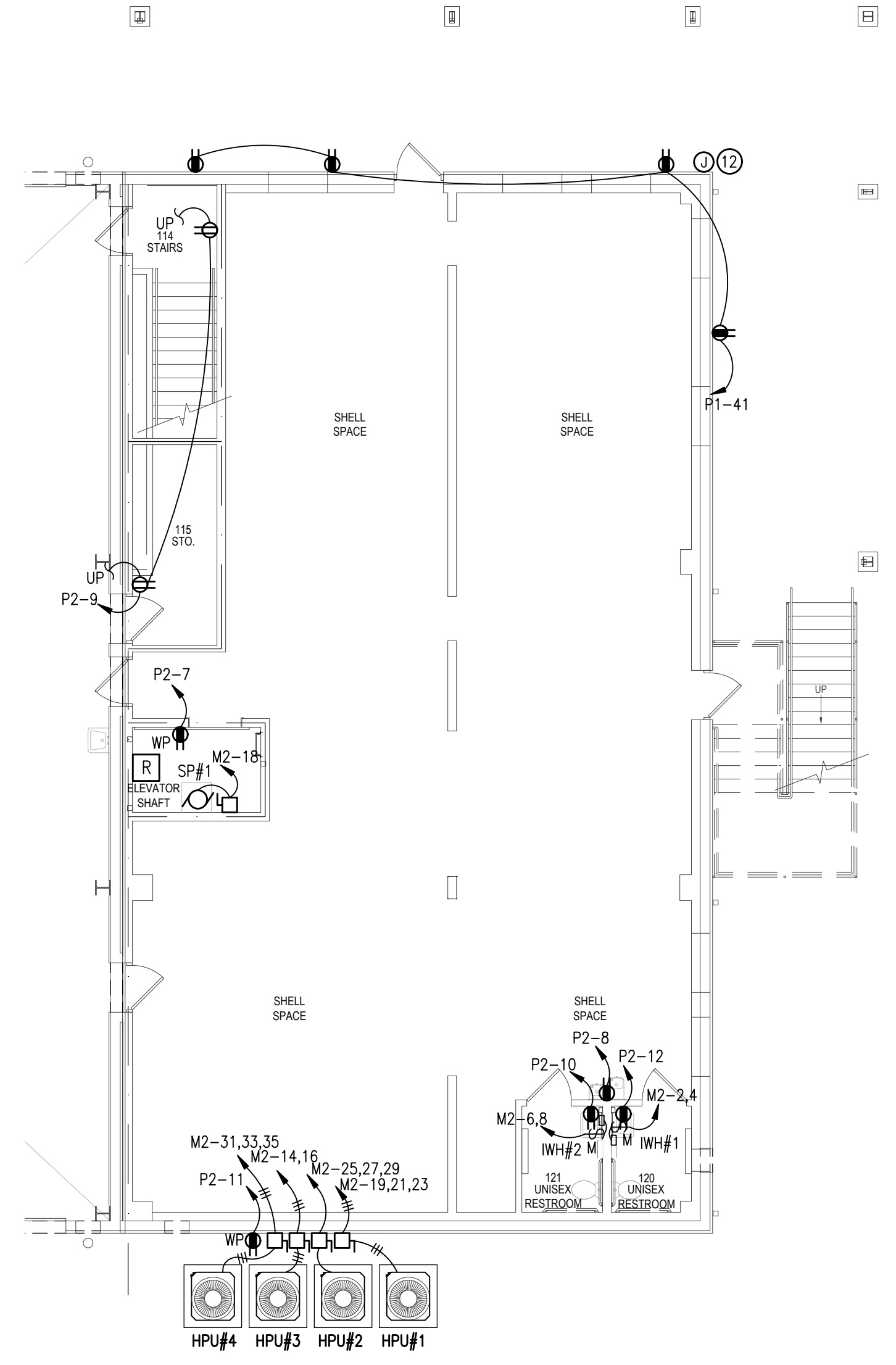


POWER PLAN KEY NOTES:

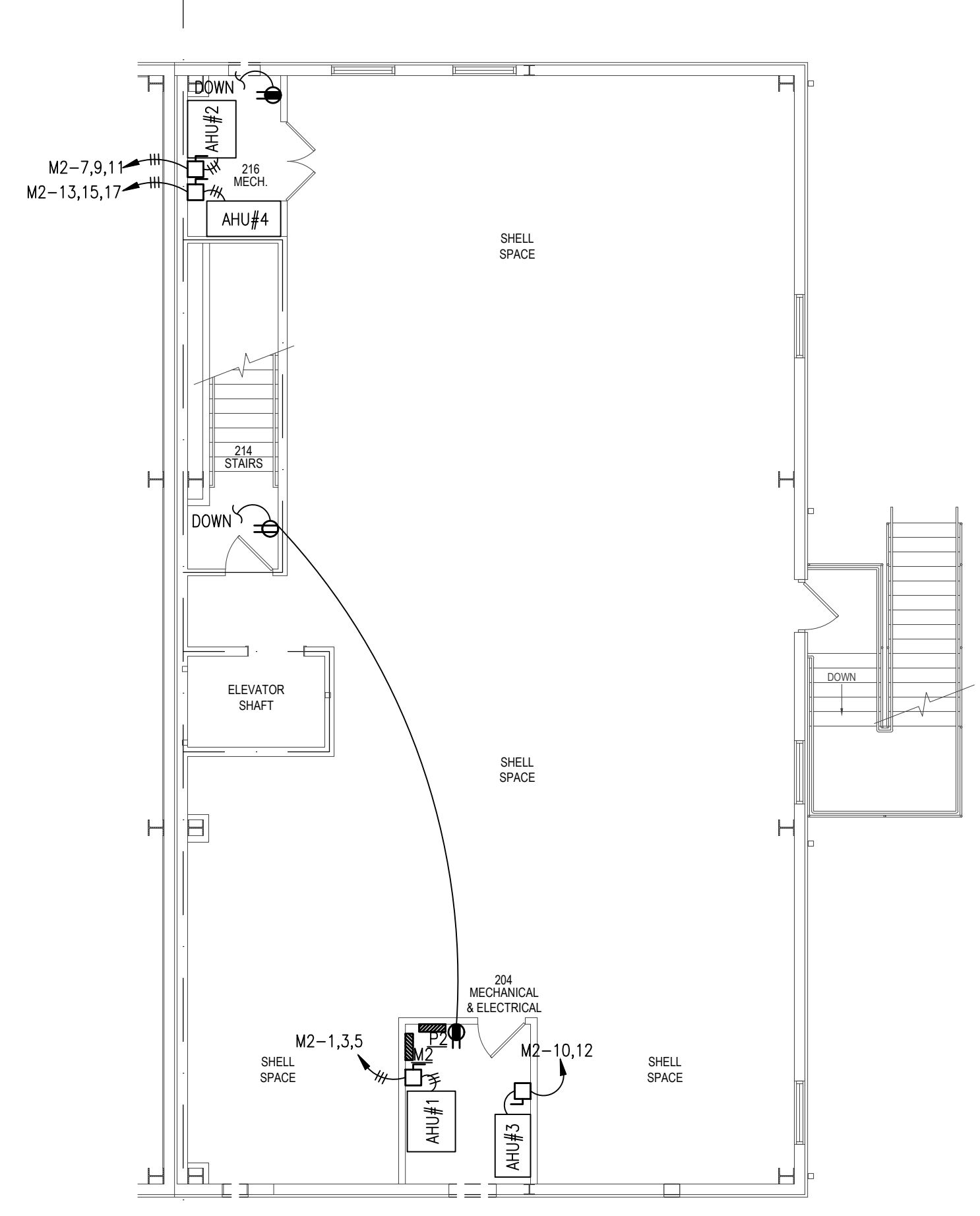
- ① AUTO RETRACTABLE PLUG REEL KUSSMAUL L4545-12-33 AND SERVING DUPLEX RECEPTACLE MOUNTED TO STRUCTURAL BEAM. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. PROVIDE ALL REQUIRED CONNECTIONS TO CHARGING SYSTEM. COORDINATE CHARGING SYSTEM REQUIREMENTS WITH OWNER PRIOR TO ORDERING. COORDINATE LOCATION OF CHARGING SYSTEM WITH OWNER PRIOR TO INSTALLATION.
- ② DOOR SIGNAL LIGHTS (INDICATES WHEN DOOR IS FULLY OPEN) MOUNT AS REQUIRED BY DOOR VENDOR.
- ③ BAY DOOR OPERATOR. COORDINATE EXACT LOCATION PRIOR TO ANY ROUGH-IN.
- ④ BAY DOOR CONTROLLER. COORDINATE EXACT LOCATION PRIOR TO ANY ROUGH-IN.
- ⑤ PROVIDE 2 DEDICATED 120V 20A CIRCUITS, ONE FOR BATTERY CHARGER, AND ONE FOR BLOCK HEATER. PROVIDE 2 NEMA 3R 20/2 TOGGLE SWITCHES, ONE FOR EACH CIRCUIT. PROVIDE PHENOLIC NAME PLATE FOR EACH SWITCH.
- ⑥ PROVIDE 1" CONDUIT ROUTED UNDERGROUND FOR CONTROL WIRING TO GENERATOR FROM TRANSFER SWITCH.
- ⑦ PROVIDE 1 DEDICATED 120V 20A CIRCUIT FOR GENERATOR LIGHT AND RECEPTACLE. PROVIDE 1 NEMA 3R 20/2 TOGGLE SWITCH. PROVIDE PHENOLIC NAME PLATE.
- ⑧ INTERLOCK EXHAUST FAN WITH CO MONITOR. COORDINATE WITH MECHANICAL.
- ⑨ MANUAL SWITCH SHALL NOT OVERRIDE CO MONITORING INTERLOCK.
- ⑩ DRYER BOOSTER FAN SHALL BE CONTROLLED BY HEAT SENSOR. COORDINATE WITH MECHANICAL.
- ⑪ PROVIDE 208/1 CONNECTION TO BREAKER P1-40,42 FOR FUTURE COMPRESSOR. FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO ANY ROUGH-IN.
- ⑫ JUNCTION BOX FOR PATIO SPEAKERS WITH 3/4" CONDUIT TO IT BACKBOARD IN ROOM 104. VERIFY LOCATION WITH OWNER PRIOR TO ANY ROUGH-IN.



1 POWER FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"



2 POWER FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 POWER SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"

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 PENSACOLA, FLORIDA 32502
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 ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG NO. 79319

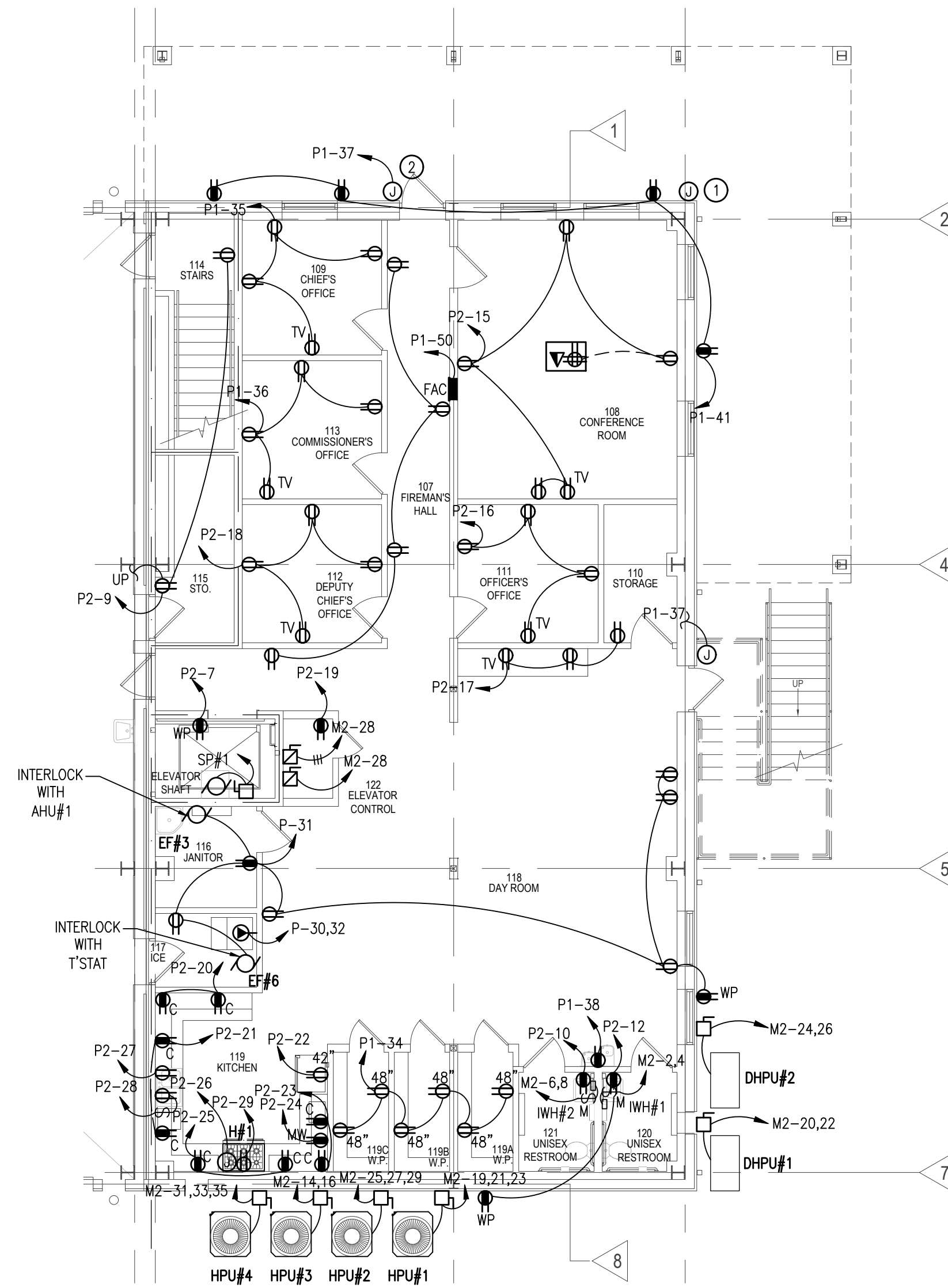
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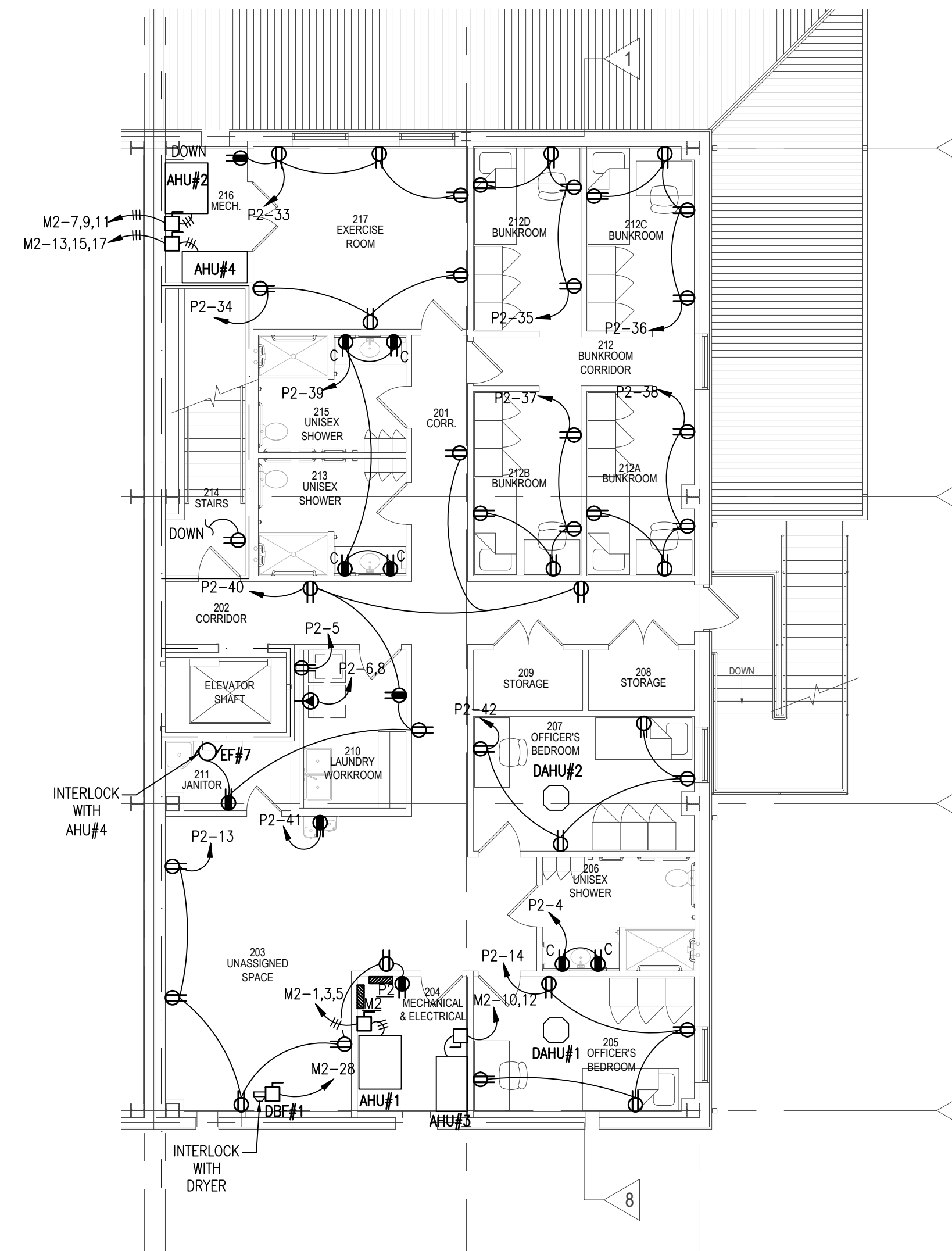
E201
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POWER PLAN KEY NOTES:

- ① JUNCTION BOX FOR PATIO SPEAKERS WITH 3/4" CONDUIT TO IT BACKBOARD IN ROOM 104. VERIFY LOCATION WITH OWNER PRIOR TO ANY ROUGH-IN.
- ② PROVIDE ROUGH-IN FOR ACCESS CONTROL JUNCTION BOX.



1 POWER FIRST FLOOR PLAN - BID ALTERNATE #2
SCALE: 1/8"=1'-0"



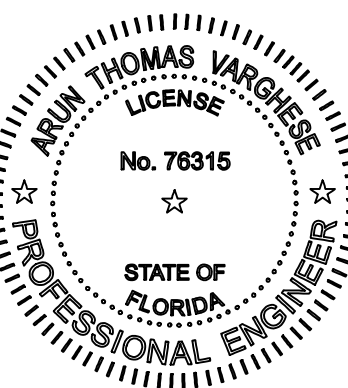
2 POWER SECOND FLOOR PLAN - BID ALTERNATE #2
SCALE: 1/8"=1'-0"

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ARCHITECTS - PLANNERS
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PH: (850) 433-0203
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POWER
BID ALTERNATE #2 PLANS

**HOLT FIRE DISTRICT
CENTRAL FIRE STATION #1**
630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



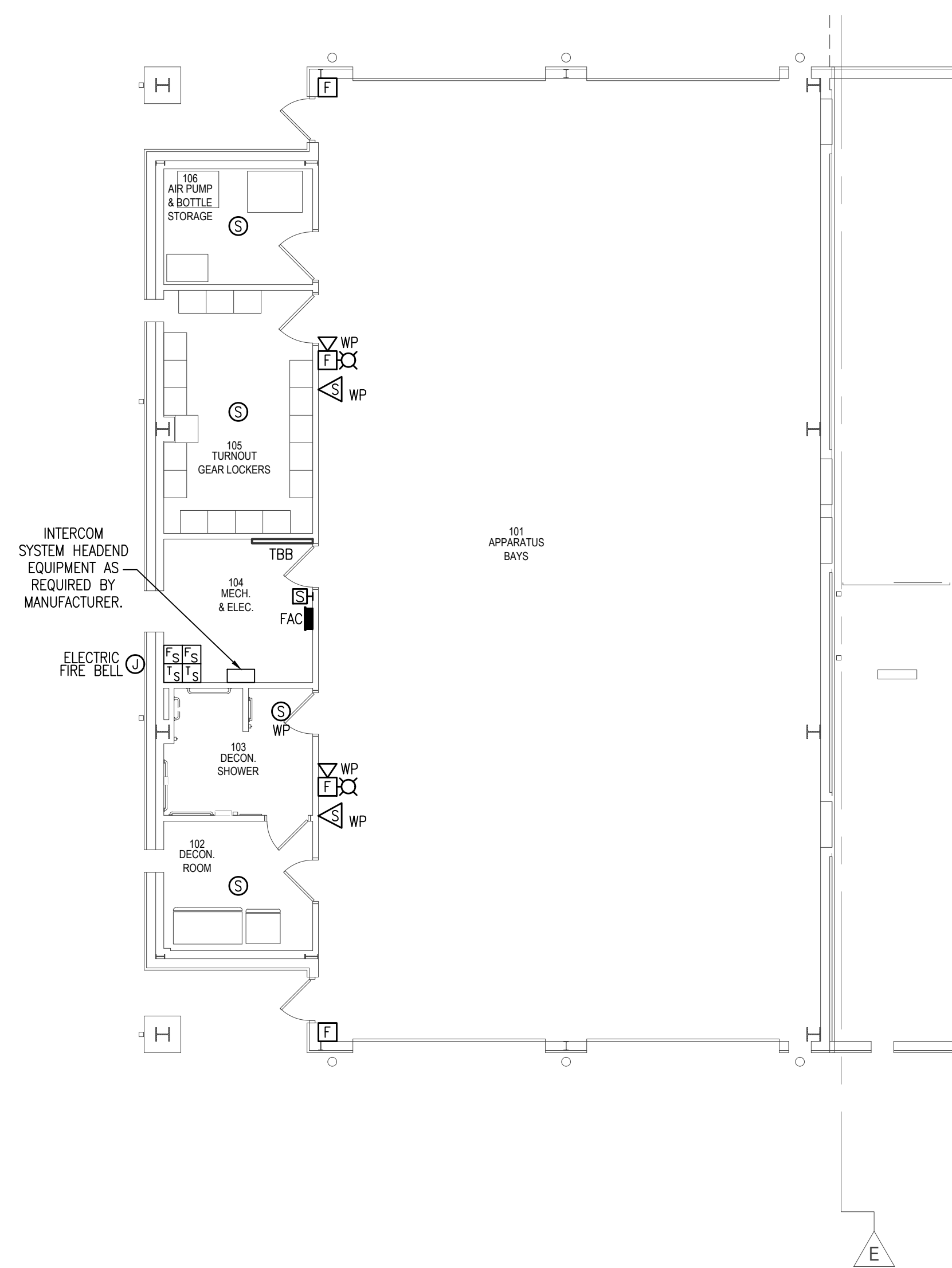
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ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319

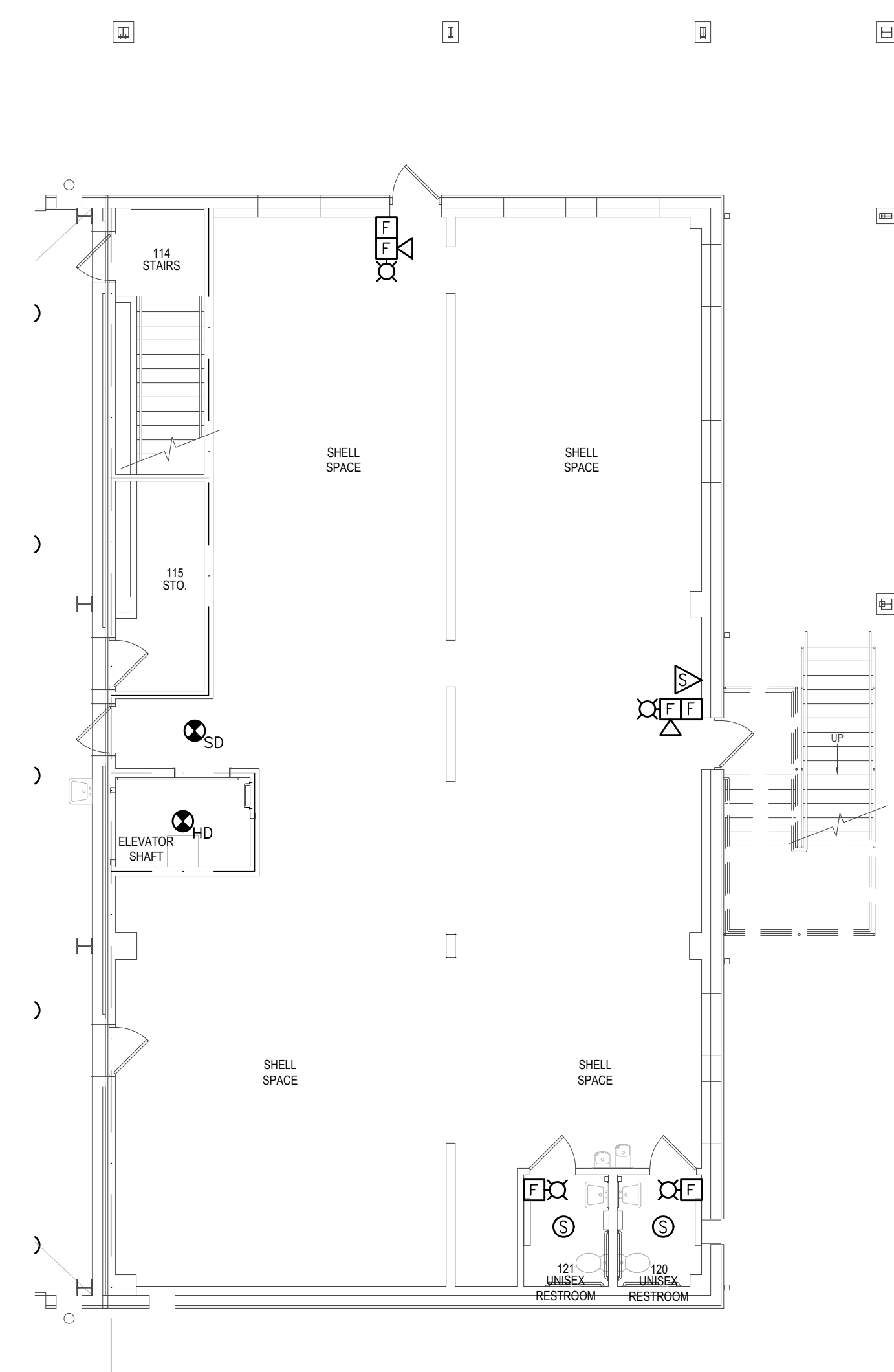
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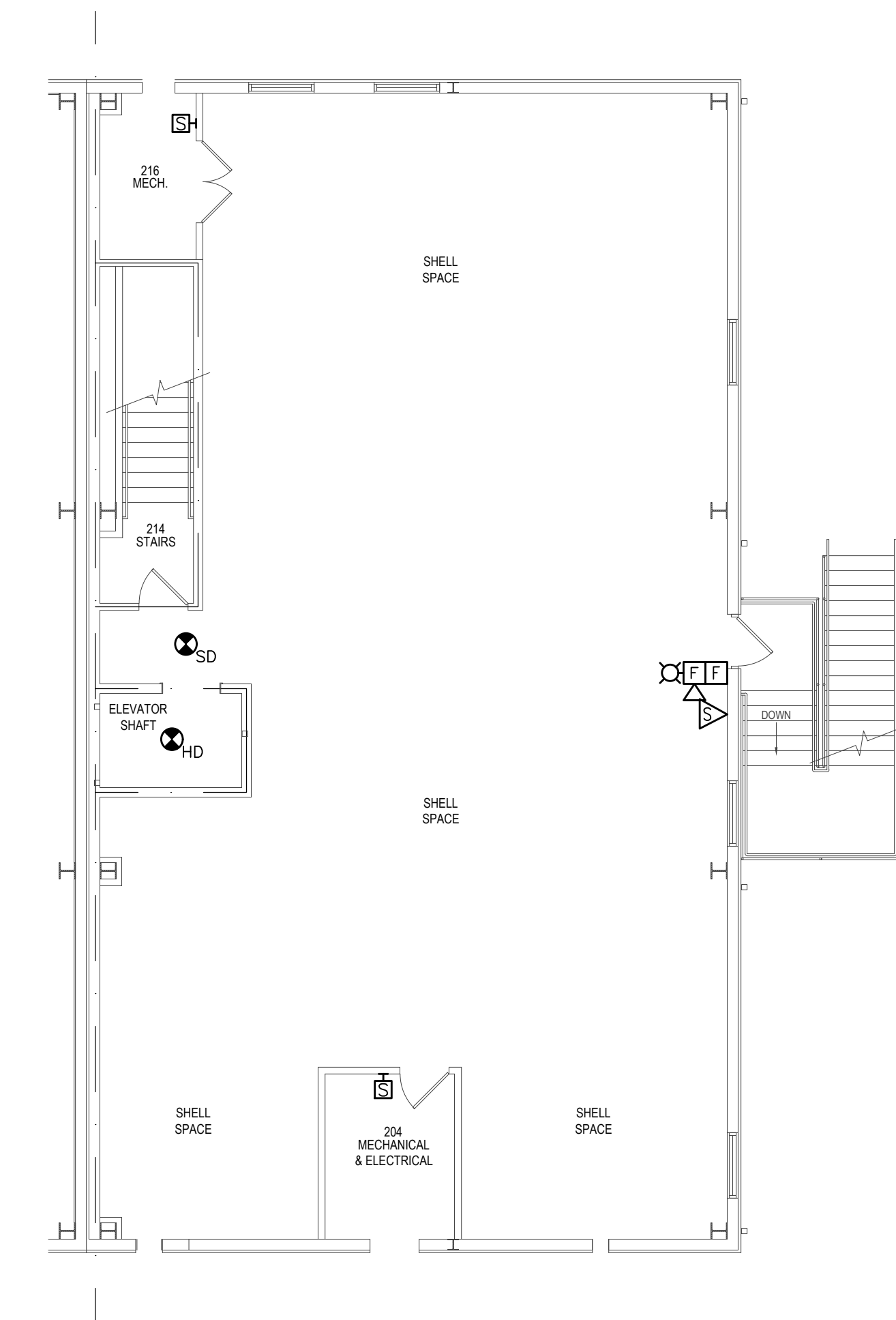
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1 SYSTEMS FIRST FLOOR PLAN - BASE BID
 SCALE: 1/8"=1'-0"



2 SYSTEMS FIRST FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"



3 SYSTEMS SECOND FLOOR PLAN - BID ALTERNATE #1
 SCALE: 1/8"=1'-0"

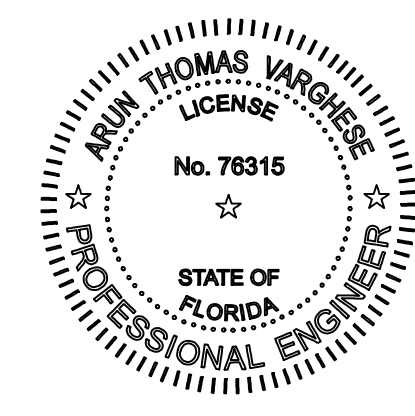
PROVIDE LIGHTING SYSTEM PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 WITH A UL MASTER LABEL.

TOWNES + ARCHITECTS, P.A.
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SYSTEMS
 BASE BID AND
 BID ALTERNATE #1 PLANS

HOLT FIRE DISTRICT
 CENTRAL FIRE STATION #1
 630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	

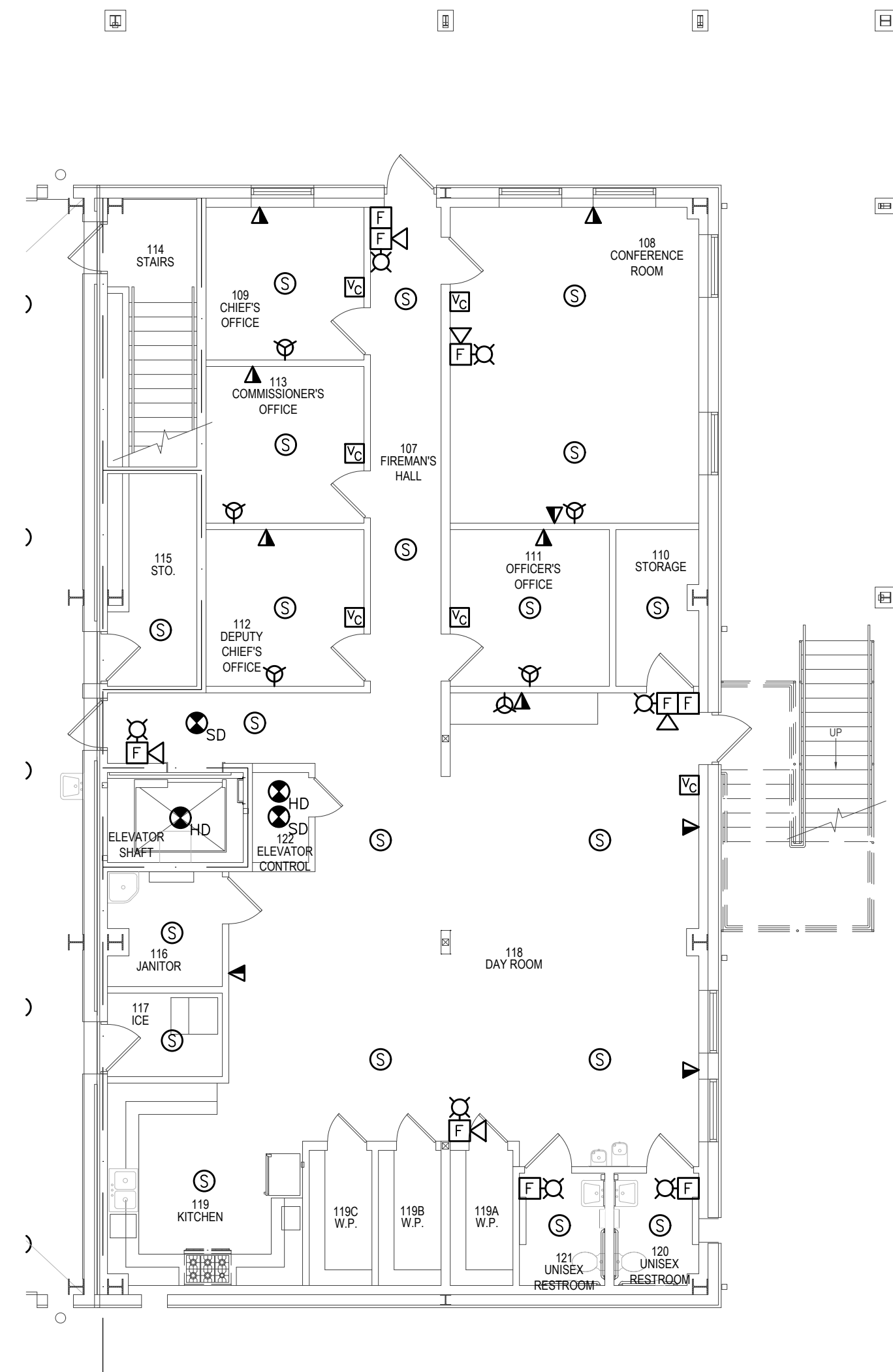


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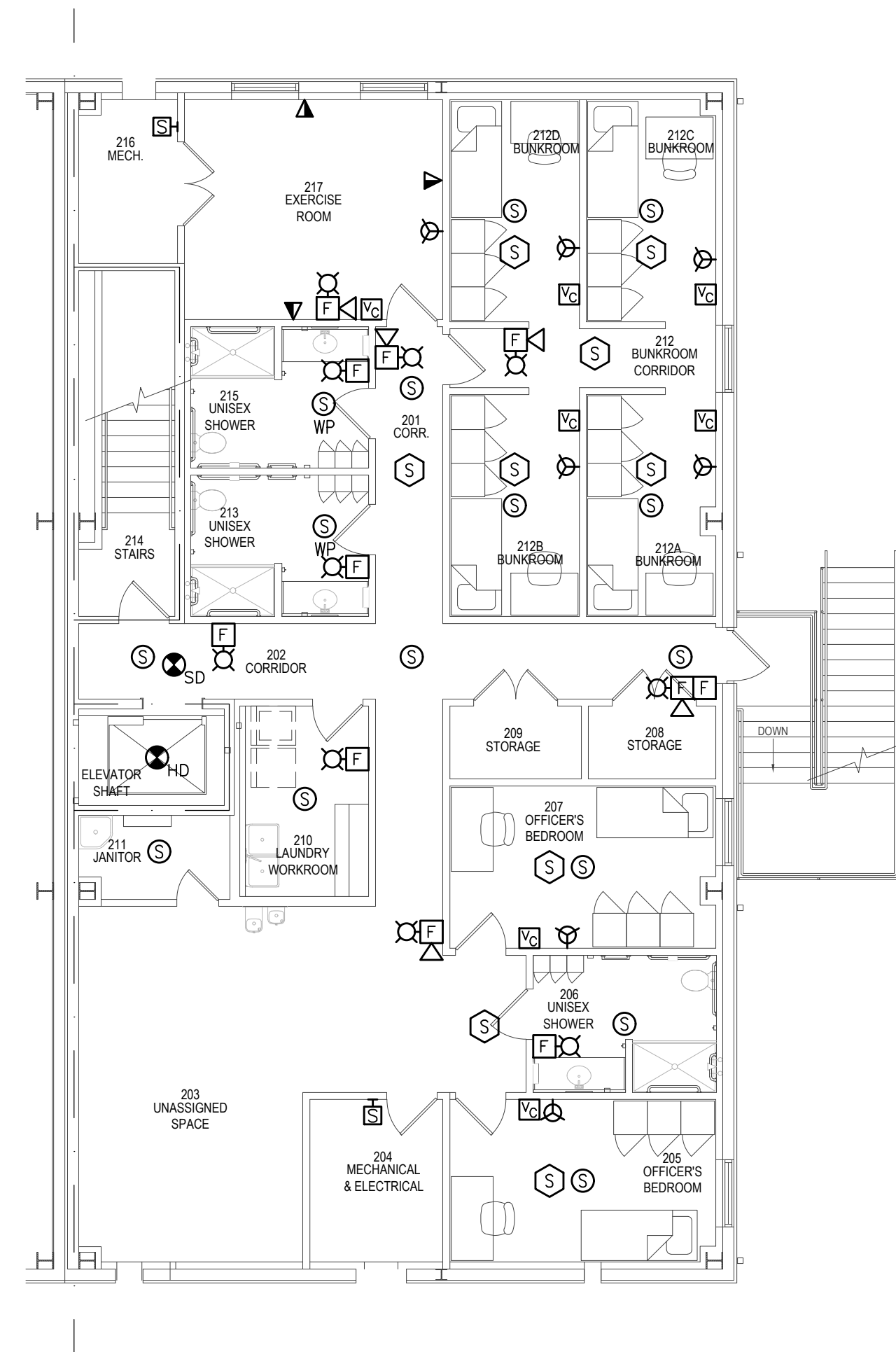
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H. M. YONGE AND ASSOC. JOB# 23-005

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1 SYSTEMS FIRST FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"



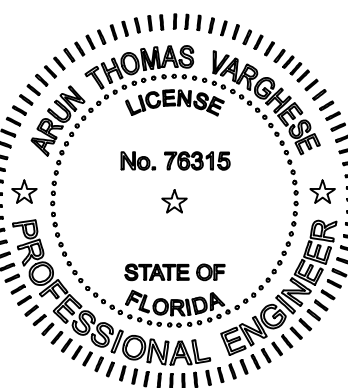
2 SYSTEMS SECOND FLOOR PLAN - BID ALTERNATE #2
 SCALE: 1/8"=1'-0"

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 PH: (850) 433-0203 AA-26001051

SYSTEMS
 BID ALTERNATE #2 PLANS

HOLT FIRE DISTRICT
 CENTRAL FIRE STATION #1
 630 US HIGHWAY 90 WEST, HOLT, FLORIDA

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 ELECTRICAL ENGINEER ARUN T. VARGHESE, P.E. FLORIDA REG No. 79319

H. M. YONGE AND ASSOC. JOB# 23-005

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Scale:	AS NOTED
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E302
 SHEET #

NEMA 1, SURFACE MOUNT		NEW PANEL MP SCHEDULE				35,000 AIC RATING	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.	
1						2	
3	PANEL "P1"	3 200	49.1	30.9 125	PANEL "P2"	4	
5						6	
7						8	
9	PANEL "M1"	3 200	48.4	94.0 300	PANEL "M2"	10	
11						12	
13						14	
15	LIFT STATION	3 40	8.5	2.8 20	STORMWATER PUMP	16	
17						18	
19	FLAG POLE LIGHTING	1 20	0.5	20 1	SPARE	20	
21	SPARE	1 20	-	20 1	SPARE	22	
23	SPARE	1 20	-	20 1	SPARE	24	
25	SPARE	1 20	-	20 1	SPARE	26	
27	SPARE	1 20	-	20 1	SPARE	28	
29	SPARE	1 20	-	20 1	SPARE	30	
31	SPARE	1 20	-	20 1	SPARE	32	
33	SPARE	1 20	-	20 1	SPARE	34	
35	SPARE	1 20	-	20 1	SPARE	36	
37	SPARE	1 20	-	20 1	SPARE	38	
39	SPARE	1 20	-	20 1	SPARE	40	
41	SPARE	1 20	-	20 1	SPARE	42	
CONNECTED LOAD		234.2 KVA					
(G) INDICATES GFCI TYPE BREAKER.							

NEMA 1, RECESSED MOUNT		NEW PANEL M1 SCHEDULE				35,000 AIC RATING	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.	
1	VF#1	1 20	1.7	0.2 20	IH#1+IH#2 (L)	2	
3	VF#2	1 20	1.2			4	
5				2.7 20	3 VF#4	6	
7	VF#3	3 20	2.7			8	
9						10	
11				22.2 80	3 OAU#1	12	
13	WH#1	3 40	9.0			14	
15						16	
17	SPARE	1 20	-	8.7 45	3 OCU	18	
19	SPARE	1 20	-			20	
21	SPARE	1 20	-	20 1	SPARE	22	
23	SPARE	1 20	-	20 1	SPARE	24	
25	SPARE	1 20	-	20 1	SPARE	26	
27	SPARE	1 20	-	20 1	SPARE	28	
29	SPARE	1 20	-	20 1	SPARE	30	
31	SPARE	1 20	-	20 1	SPARE	32	
33	SPARE	1 20	-	20 1	SPARE	34	
35	SPARE	1 20	-	20 1	SPARE	36	
37	SPARE	1 20	-	20 1	SPARE	38	
39	SPARE	1 20	-	20 1	SPARE	40	
41	SPARE	1 20	-	20 1	SPARE	42	
CONNECTED LOAD		48.4 KVA					
(L) PROVIDE RED LOCKABLE BREAKER.							

NEMA 1, SURFACE MOUNT		NEW PANEL P1 SCHEDULE				35,000 AIC RATING	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.	
1	101 LIGHTING	1 20	0.6	0.6 20	1 101 LIGHTING	2	
3	101 LIGHTING	1 20	0.6	0.6 20	1 101 LIGHTING	4	
5	101 LIGHTING	1 20	0.6	0.8 20	1 102,103,104,105,106 LIGHTING	6	
7	GEAR LOCKERS	2 20	1.5	0.4 20	1 TBB	8	
9				1.4 20	1 104,105,106 RECEPTACLES CP#1	10	
11				0.8 20	1 101,102,103 RECEPTACLES	12	
13	GEAR LOCKERS	2 20	1.5	0.2 20	1 102 GFCI	14	
15				0.2 20	1 102 GFCI	16	
17	GEAR LOCKERS	2 20	1.5	1.0 20	1 101 RECEPTACLES	18	
19				0.5 20	1 106 APPLIANCE	20	
21	GEAR LOCKERS	2 20	1.5	0.5 20	1 106 APPLIANCE	22	
23				0.5 20	1 106 APPLIANCE	24	
25	GEAR LOCKERS	2 20	1.5	2.4 30	1 BAY DOOR CONTROLLERS	26	
27				2.4 30	1 BAY DOOR CONTROLLERS	28	
29	GEAR LOCKERS	2 20	1.5	2.4 30	1 BAY DOOR CONTROLLERS	30	
31	EXTERIOR RECEPTACLE	1 20	0.2	2.4 30	1 BAY DOOR CONTROLLERS	32	
33	EXTERIOR RECEPTACLE	1 20	0.2	1.2 20	1 WATCH PANTRY OUTLETS	34	
35	109 CHIEF'S OFFICE	1 20	0.8	0.8 20	1 113 COMMISSIONER'S OFFICE	36	
37	CARD ACCESS	1 20	0.5	1.2 20	1 EWC	38	
39	SITE LIGHTING	1 20	0.9	1.5 20	2 FUTURE COMPRESSOR	40	
41	PATIO RECEPTACLES	1 20	1.0			42	
43						44	
45	CASCADE SYSTEM	3 30	5.0	3.9 60	3 WASHER/EXTRACTOR	46	
47						48	
49				0.5 20	1 FAC (L)	50	
51	BUNKER GEAR DRYER	3 40	2.7	0.6 20	1 FIRST FLOOR BID #2	52	
53				0.2 20	1 BASE BID DOOR LIGHTING	54	
CONNECTED LOAD		49.1 KVA					
(G) INDICATES GFCI TYPE BREAKER. (L) PROVIDE RED LOCKABLE BREAKER.							

NEMA 1, RECESSED MOUNT		NEW PANEL P2 SCHEDULE				35,000 AIC RATING	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.	
1	EXTERIOR LIGHTING	1 20	0.3	1.7 20	1 1ST FLOOR LIGHTING	2	
3	2ND FLOOR LIGHTING	1 20	1.7	0.4 20	1 206 REC	4	
5	WASHER (G)	1 20	1.0	2.0 30	2 DRIER	6	
7	ELEVATOR SHAFT REC	1 20	0.2			8	
9	STAIRWELL RECEPTACLES	1 20	1.0	0.2 20	1 121 GFCI REC	10	
11	EXTERIOR GFCI REC	1 20	0.2	0.2 20	1 120 GFCI REC	12	
13	203 REC	1 20	1.2	0.8 20	1 OFFICER'S BEDROOM	14	
15	108 REC	1 20	1.2	0.8 20	1 111 REC	16	
17	110, 118 REC	1 20	0.6	0.8 20	1 112 REC	18	
19	ELEV. CONTROL GFCI	1 20	0.2	0.4 20	1 KITCHEN COUNTER	20	
21	KITCHEN COUNTER	1 20	0.4	1.2 20	1 REFRIGERATOR (G)	22	
23	KITCHEN COUNTER	1 20	0.4	1.2 20	1 MICROWAVE	24	
25	KITCHEN COUNTER	1 20	0.4	0.2 20	1 KITCHEN HOOD	26	
27	DISHWASHER (G)	1 20	1.0	0.2 20	1 GARBAGE DISPOSAL (G)	28	
29	OVEN (G)	1 20	1.0	1.0 20	2 ICE MACHINE	30	
31	118, 116 REC	1 20	1.0			32	
33	217 EXERCISE ROOM	1 20	0.8	0.8 20	1 217 EXERCISE ROOM	34	
35	212D REC	1 20	0.8	0.8 20	1 212C REC	36	
37	212B REC	1 20	0.8	0.8 20	1 212A REC	38	
39	213, 215 REC	1 20	0.4	1.2 20	1 201,202, JANITOR REC	40	
41	EWC	1 20	0.8	0.8 20	1 207 REC	42	
CONNECTED LOAD		30.9 KVA					
(G) INDICATES GFCI TYPE BREAKER.							

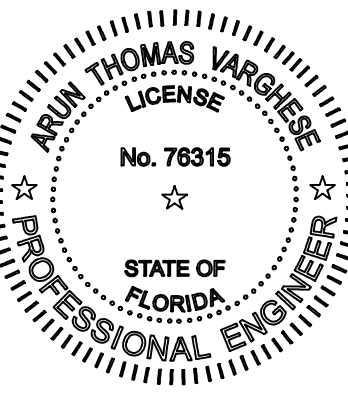
NEMA 1, RECESSED MOUNT		NEW PANEL M2 SCHEDULE				35,000 AIC RATING	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.	
1						2	
3	AHU#1	3 35	8.5	4.1 30	2 IWH#1	4	
5				4.1 30	2 IWH#2	6	
7						8	
9	AHU#2	3 30	8.1	6.7 40	2 AHU#3	10	
11						12	
13				2.6 25	2 HPU#3	14	
15	AHU#4	3 35	8.5	1.0 20	1 SP#1	16	
17						18	
19				1.5 15	2 DHPU#1	20	
21	HPU#1	3 30	5.3	1.5 15	2 DHPU#2	22	
23						24	
25				1.5 15	2 DHPU#2	26	
27	HPU#2	3 30	5.3	0.5 20	1 DBF#1	28	
29						30	
31				23.0 80	3 ELEVATOR CONTROL 122	32	
33	HPU#4	3 30	5.3	8.0 30	1 ELEVATOR CONTROL 122	34	
35						36	
37	SPARE	1 20	-	20 1	SPARE	38	
39	SPARE	1 20	-	20 1	SPARE	40	
41	SPARE	1 20	-	20 1	SPARE	42	
CONNECTED LOAD		94.0 KVA					

TOWNES + ARCHITECTS, P.A.
 ARCHITECTS - PLANNERS
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ELECTRICAL PANEL SCHEDULES

HOLT FIRE DISTRICT
 CENTRAL FIRE STATION #1
 630 US HIGHWAY 90 WEST, HOLT, FLORIDA

Revision	



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H. M. YONGE AND ASSOC. JOB# 23-005

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E401
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