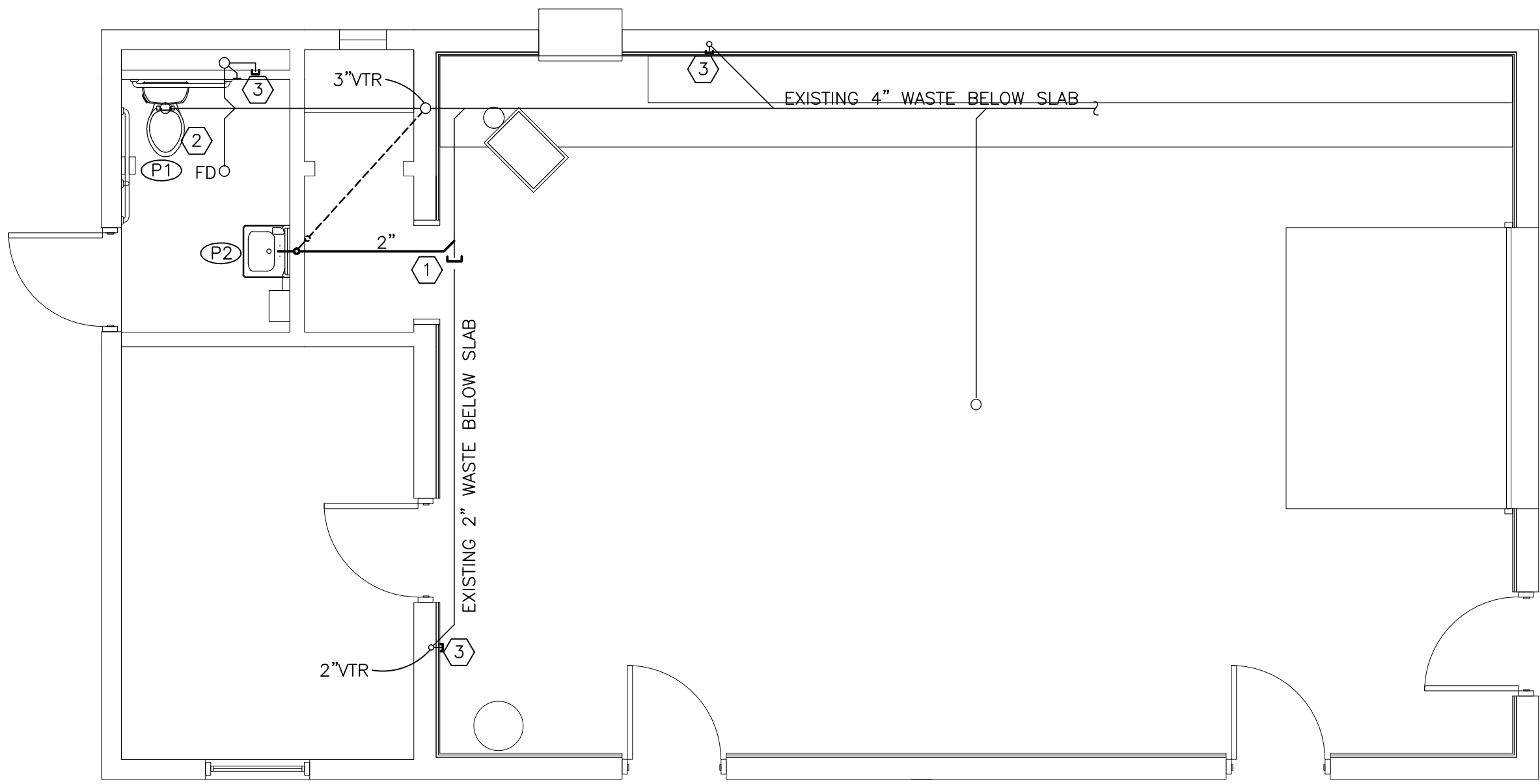


FLOOR PLAN: NEW – PLUMBING SUPPLY

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 CAP EXISTING SUPPLY PIPING TO LAVATORY, SINK AND WATER COOLER.
- 2 CONNECT 1/2" CW AND 1/2" HW TO MAINS. ROUTE EXPOSED ON WALL THEN INTO NEW WALL TO LAVATORY.
- 3 INSTALL HEAVY PATTERN ANGLE STOP VALVES FOR LAVATORY.
- 4 RECONNECT SUPPLY PIPING TO NEW TOILET.

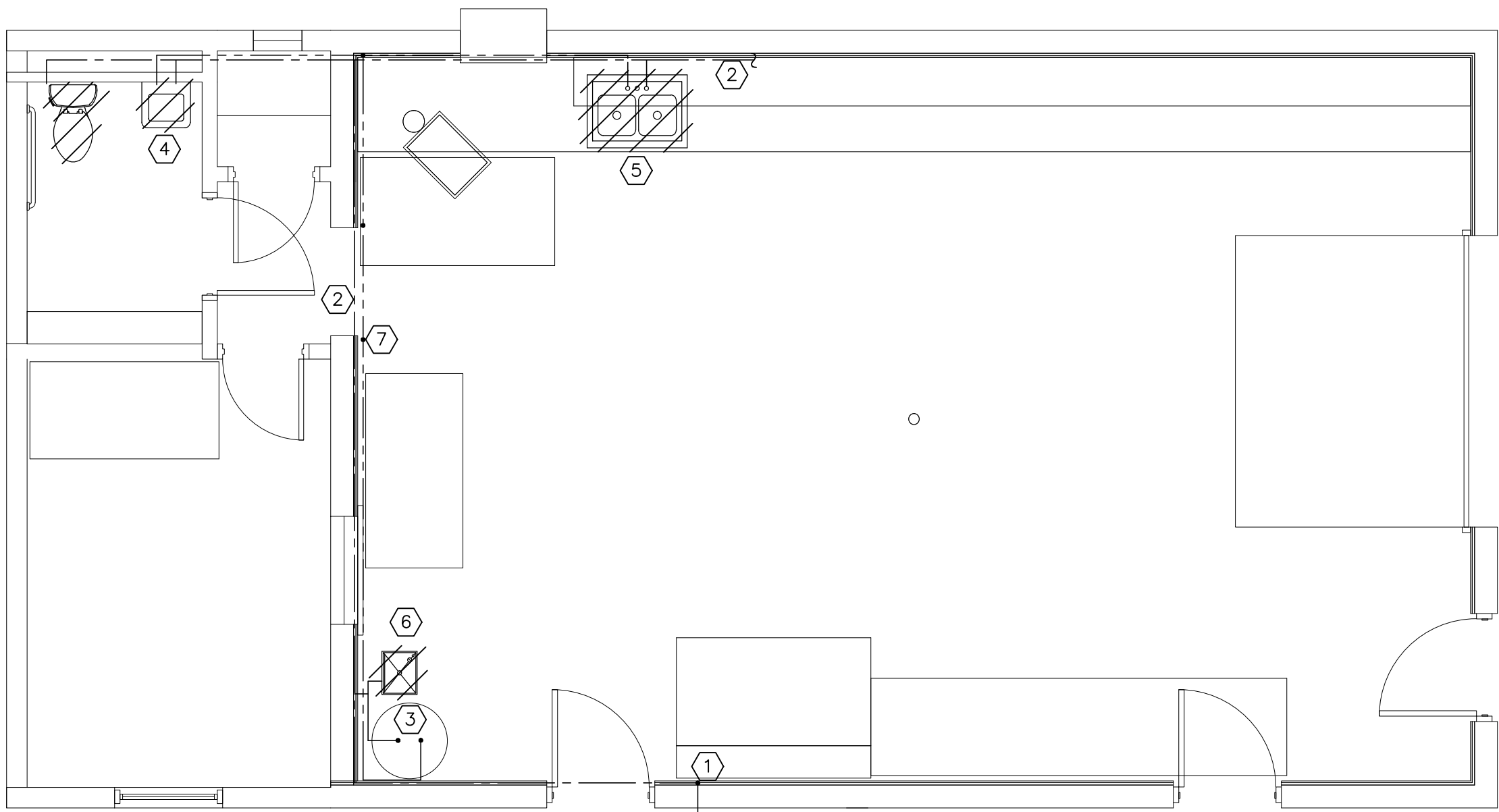


FLOOR PLAN: NEW – PLUMBING WASTE

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 ROUTE 2" WASTE DOWN IN NEW WALL THEN BELOW SLAB. CONNECT TO EXISTING 2" WASTE PIPING BELOW SLAB. CONFIRM EXISTING 2" WASTE BELOW SLAB DOES NOT HAVE ANY ACTIVE FIXTURES DRAINING INTO IT. IF NOT, CAP EXISTING DEAD LEG PIPE UNDER SLAB. CONNECT 1-1/2" VENT TO EXISTING VTR IN ATTIC.
- 2 INSTALL NEW TOILET. OFFSET FLANGE IF REQUIRED.
- 3 CAP LAVATORY, SINK AND WATER COOLER WASTE PIPING AT WALL.

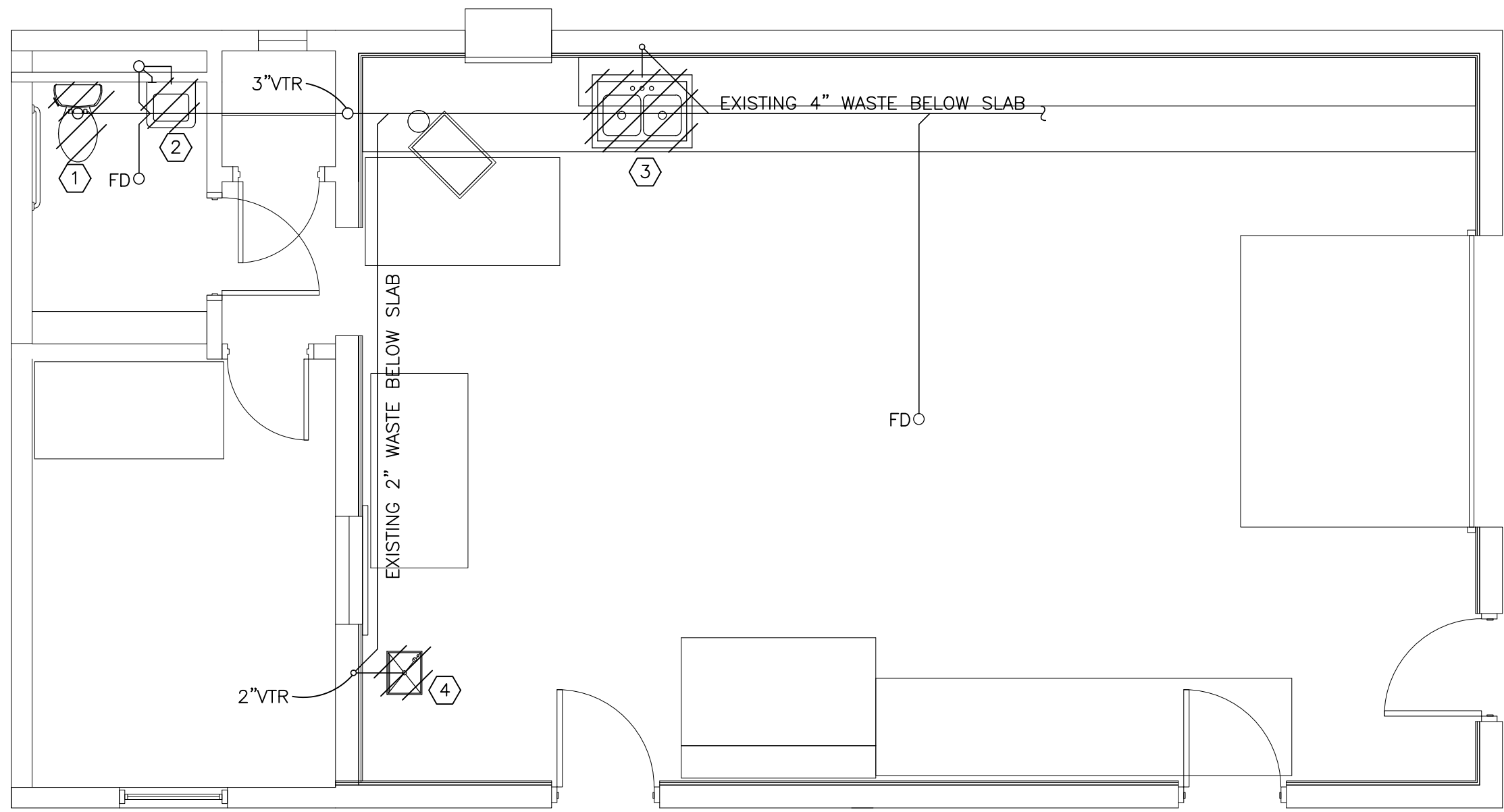


FLOOR PLAN: EXISTING – PLUMBING SUPPLY DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 EXISTING 3/4" CW PIPE UP FROM BELOW SLAB.
- 2 EXISTING 3/4" CW PIPE TO REMAIN.
- 3 EXISTING WATER HEATER TO REMAIN.
- 4 REMOVE EXISTING LAVATORY.
- 5 REMOVE EXISTING SINK.
- 6 REMOVE EXISTING WATER COOLER.
- 7 1/2" HW PIPE TO LAVATORY ROUTED ON WALL TO REMAIN.



FLOOR PLAN: EXISTING – PLUMBING WASTE DEMOLITION

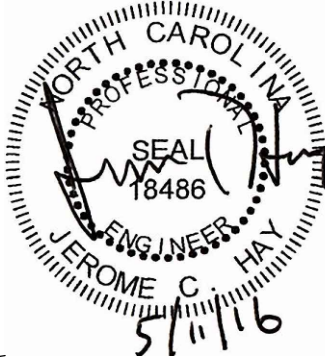
1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 REMOVE TOILET.
- 2 REMOVE LAVATORY.
- 3 REMOVE EXISTING DOUBLE BOWL STAINLESS STEEL SINK.

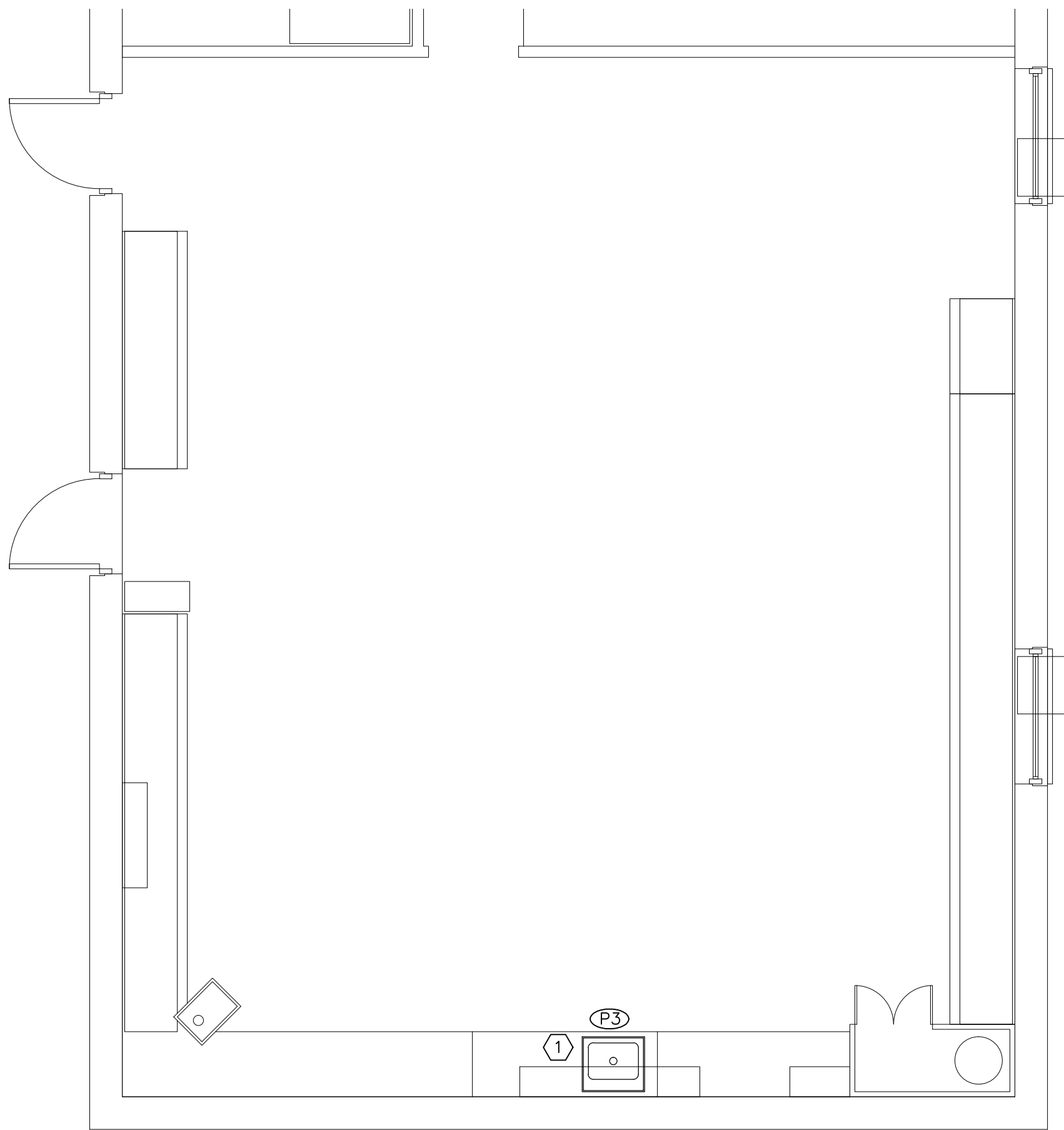
**Buncombe County Schools
Facilities and Planning**

Timothy Fierle AIA, Director
175 Bingham Road □ Asheville, N.C. 28806-3800
Phone: (828) 255-5916 Fax: (828) 255-5923



SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035	FLAT IRON BUILDING SUITE 708 20 BATTERY PARK AVENUE ASHEVILLE, NORTH CAROLINA 28826-2525-4881	1813 CHAPEL HILL ROAD ASHEVILLE, NORTH CAROLINA 28806-3800 919-493-5277	This drawing and the design are the property of Sud Associates, P.A. Any reproduction or use of this drawing without the written permission is prohibited and infringement will be subject to legal action.	PROJECT NO. 15228
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P201
ERWIN HS:
PLUMBING
FLOOR PLAN
DESIGNED BY: DCR
DATE: 5-11-16

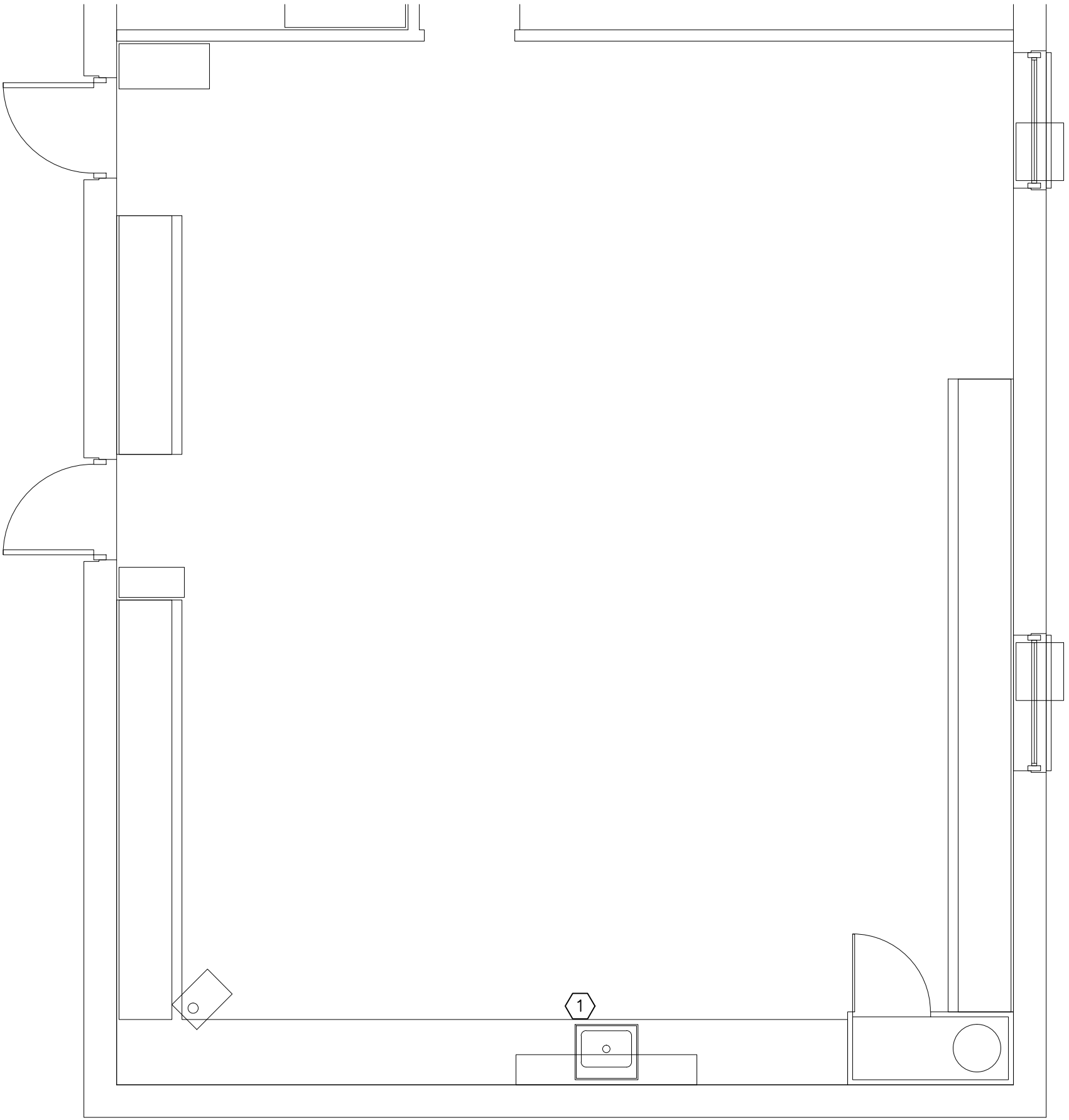


FLOOR PLAN: NEW – PLUMBING SUPPLY

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- ① CONNECT NEW FAUCET TO EXISTING SUPPLY PIPING.

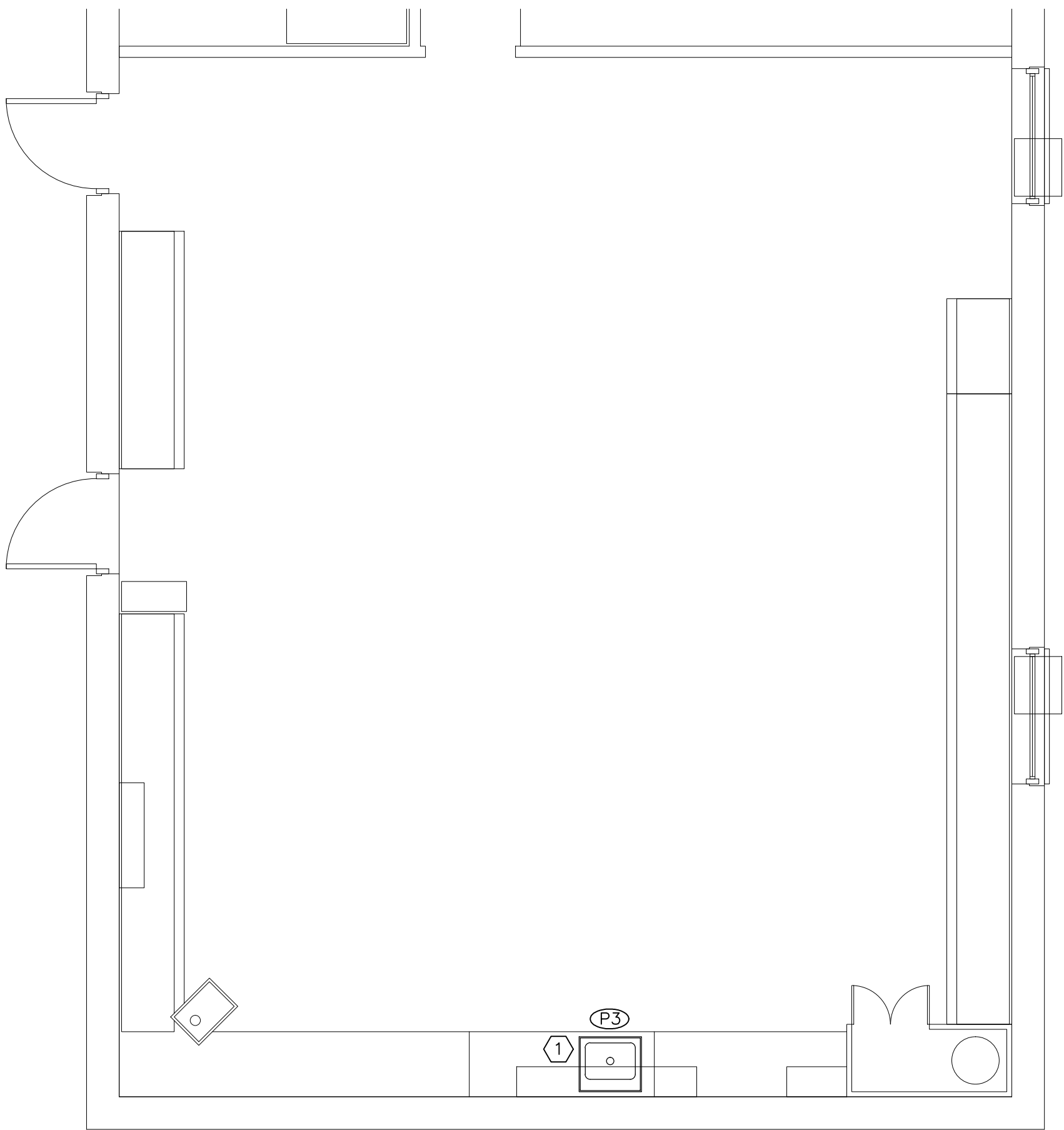


FLOOR PLAN: EXISTING – PLUMBING SUPPLY DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- ① REMOVE EXISTING SINGLE BOWL STAINLESS STEEL SINK.

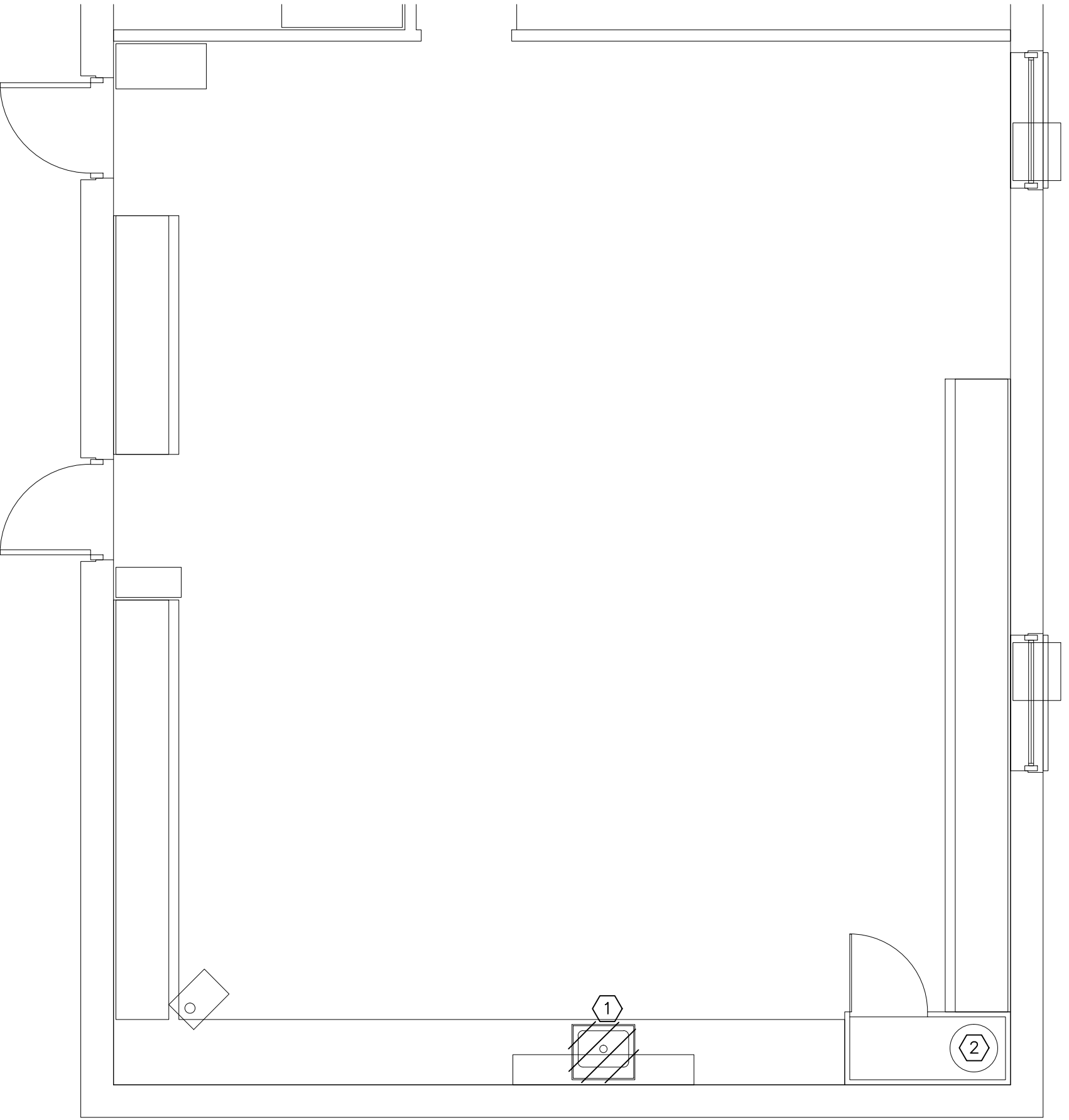


FLOOR PLAN: NEW – PLUMBING WASTE

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- ① INSTALL STAINLESS STEEL SINK, PROVIDE NEW DRAIN PIPING AND P-TRAP. CONNECT TO EXISTING WASTE STUB OUT IN WALL.

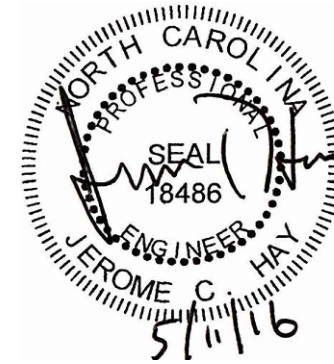


FLOOR PLAN: EXISTING – PLUMBING WASTE DEMOLITION

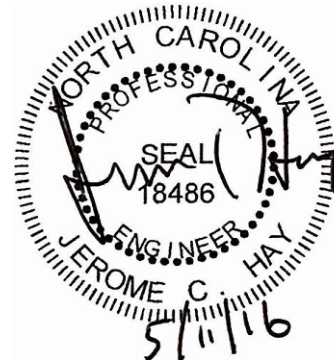
1/4" = 1'-0"

KEYED PLUMBING NOTES:

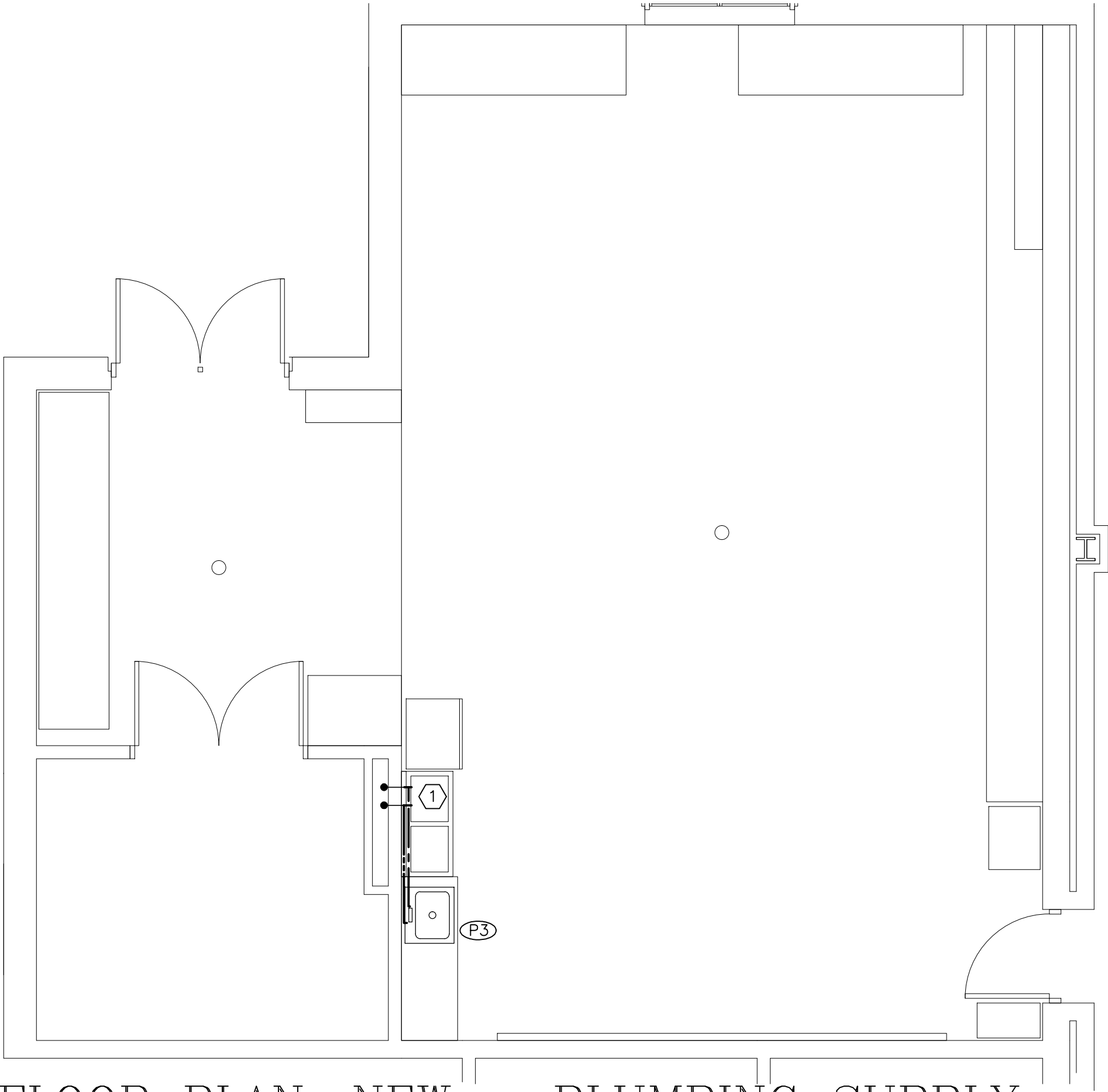
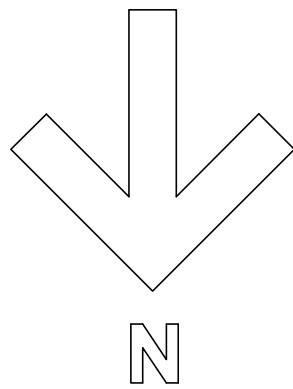
- ① REMOVE EXISTING SINGLE BOWL STAINLESS STEEL SINK.
② EXISTING WATER HEATER TO REMAIN.



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	1813 CHAPEL HILL ROAD ASHEVILLE, NORTH CAROLINA 28806-3800 919-493-5277
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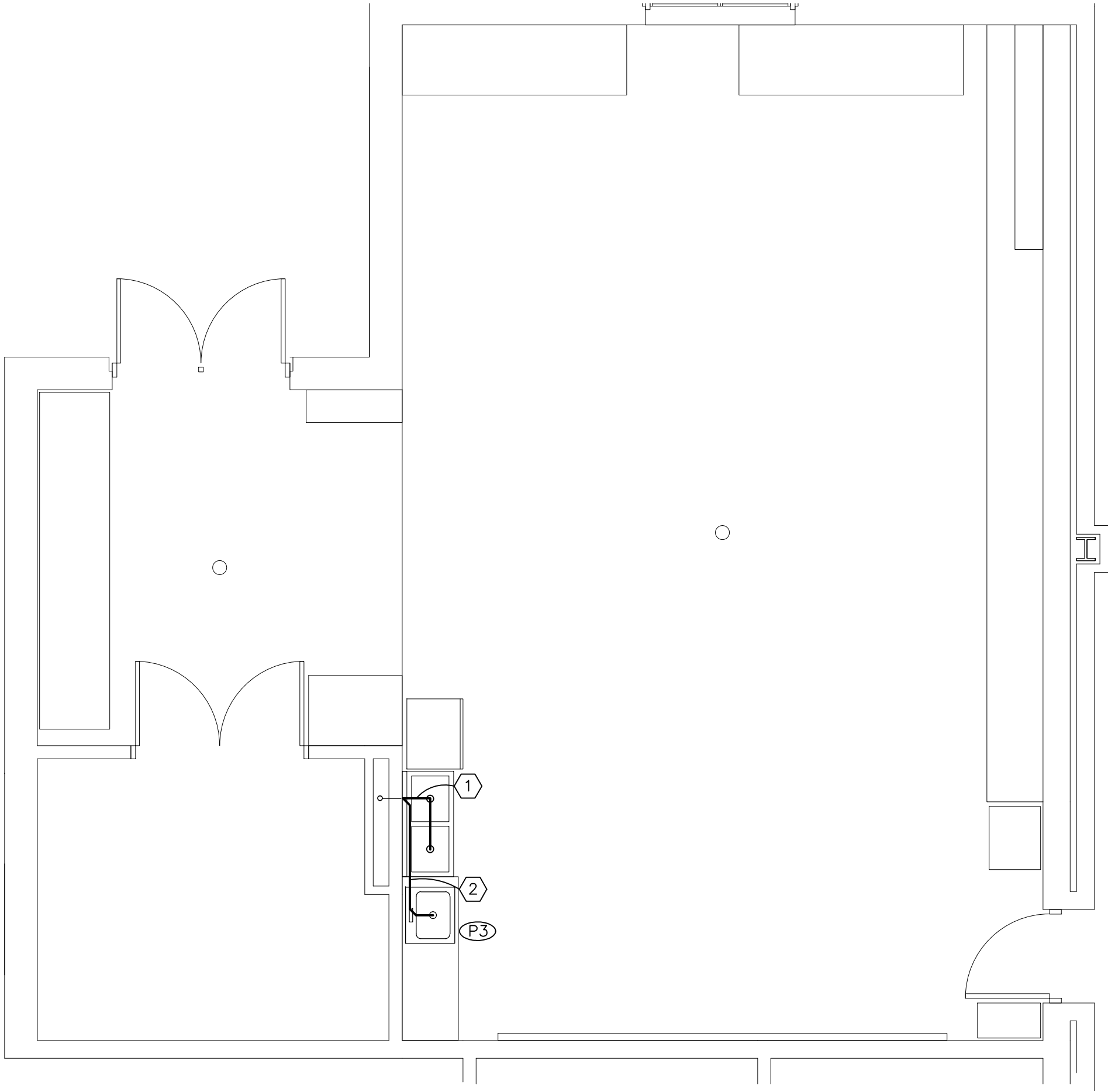


FLOOR PLAN: NEW – PLUMBING SUPPLY

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 PROVIDE 3 WAY HEAVY PATTERN ANGLE STOPS VALVES ON HW AND CW
PIPING. ROUTE NEW SUPPLY LINES TO EXISTING AND NEW SINK FAUCETS.

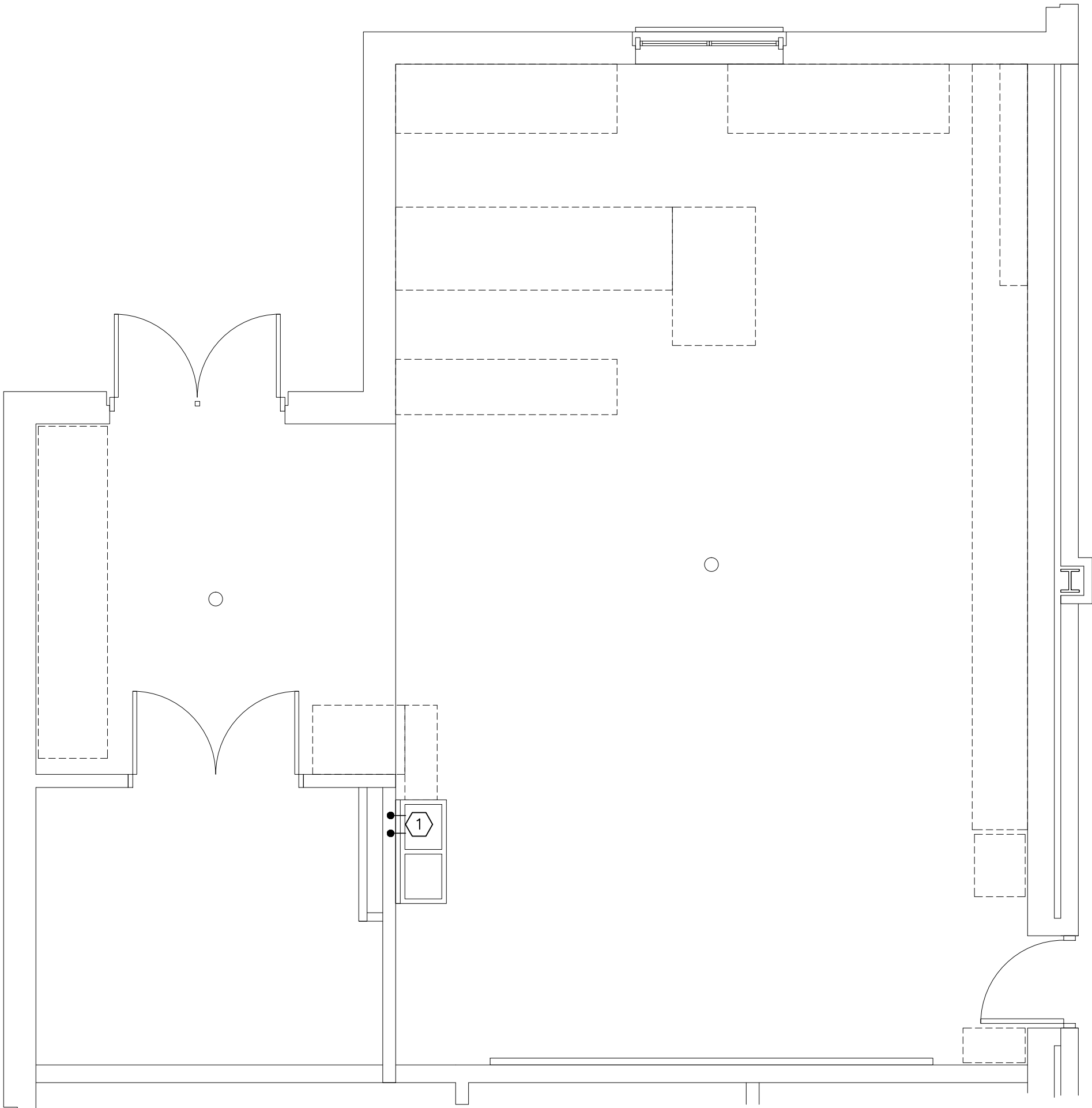


FLOOR PLAN: NEW – PLUMBING WASTE

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 PROVIDE NEW DRAIN PIPING FROM EXISTING SINK. TIE IN NEW SINK DRAIN THEN CONNECT
TO EXISTING WASTE PIPING IN WALL.
2 ROUTE DRAIN PIPING FROM NEW SINK UNDER EXISTING SINK. TIE INTO NEW
WASTE PIPING FROM EXISTING SINK.

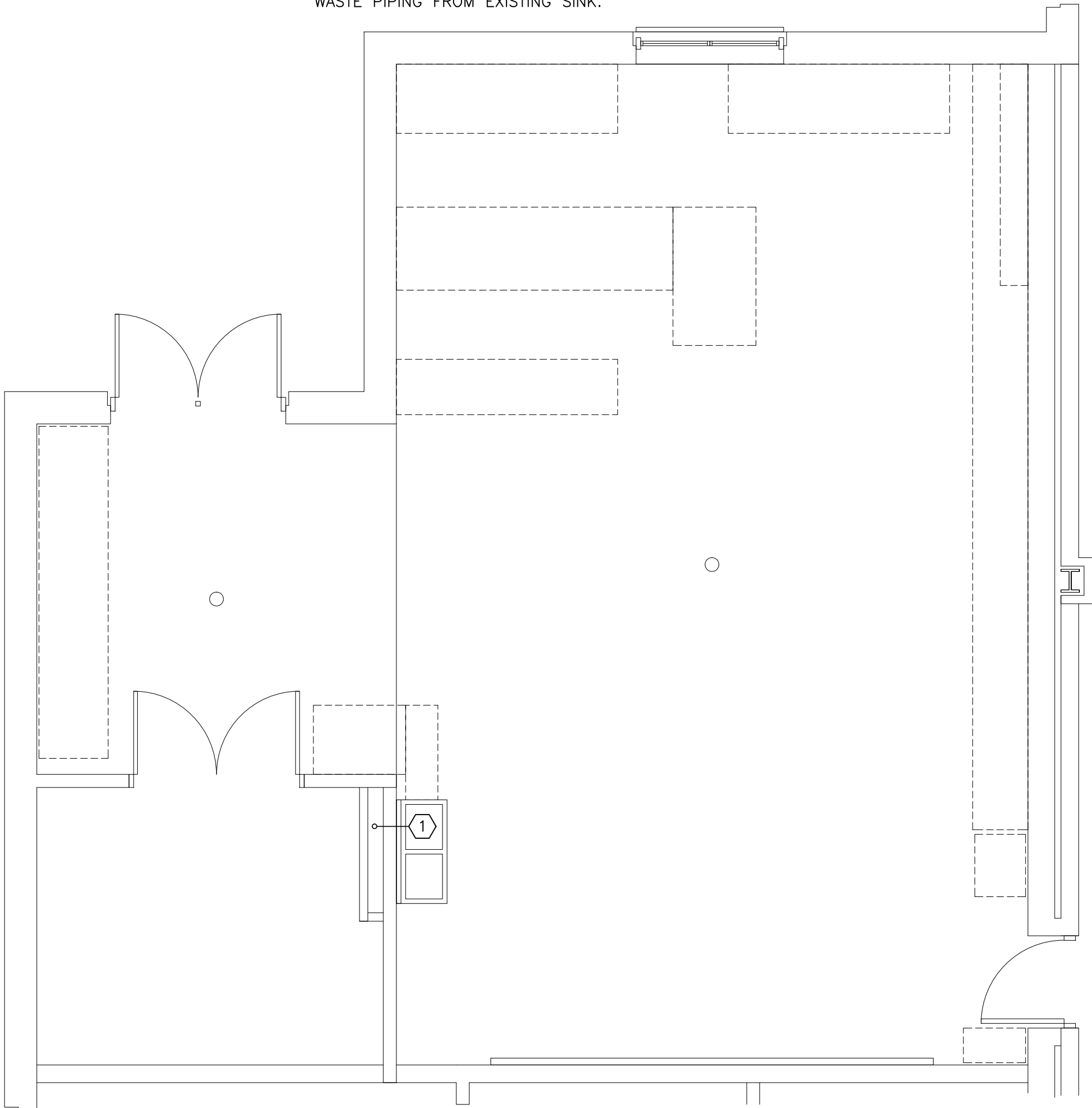


FLOOR PLAN: EXISTING – PLUMBING SUPPLY DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 EXISTING SUPPLY PIPING WITH ANGLE STOP VALVES BELOW EXISTING SINK.

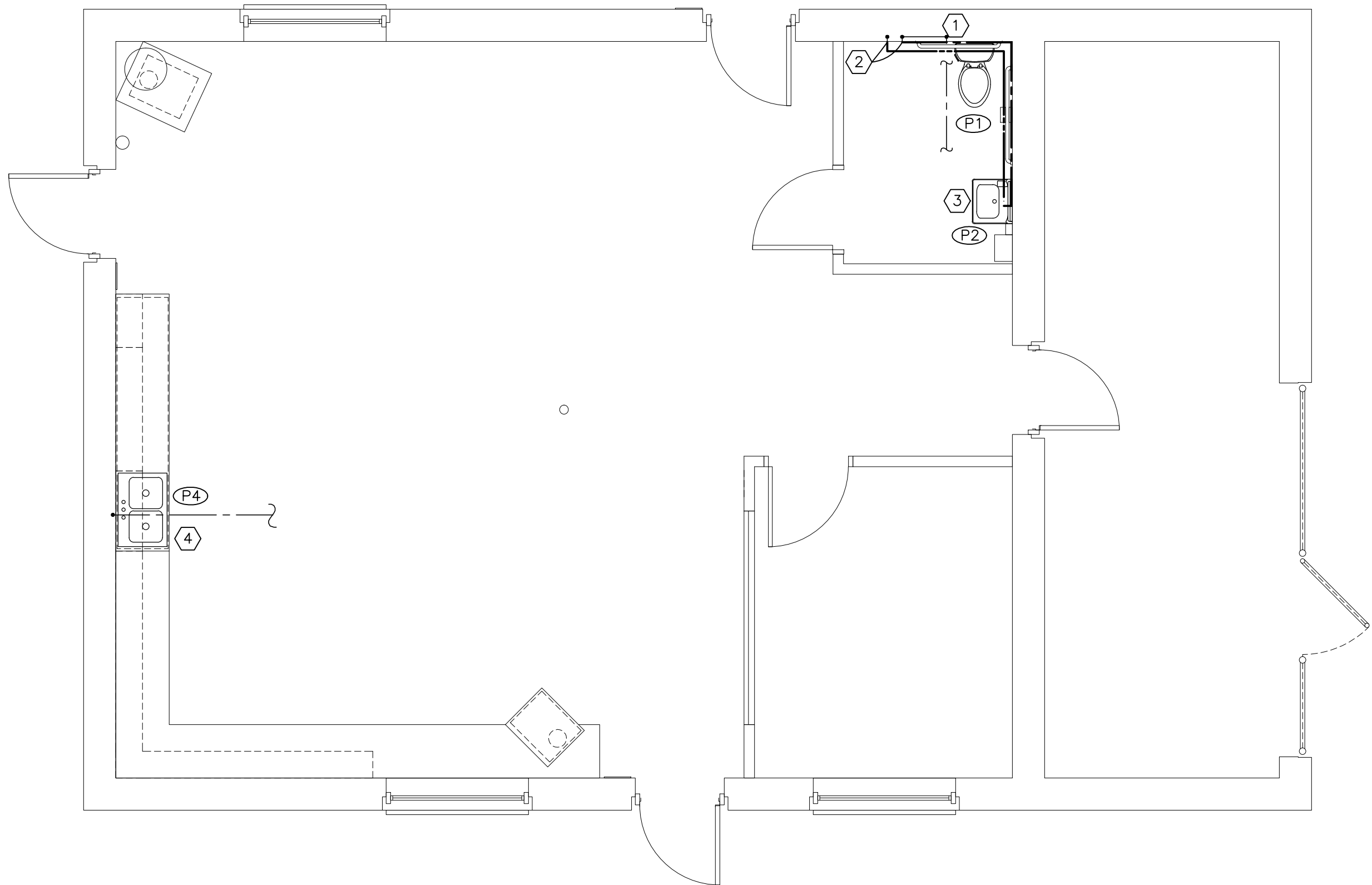


FLOOR PLAN: EXISTING – PLUMBING WASTE DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 REMOVE DRAIN PIPING AND P--TRAP BELOW EXISTING SINK.

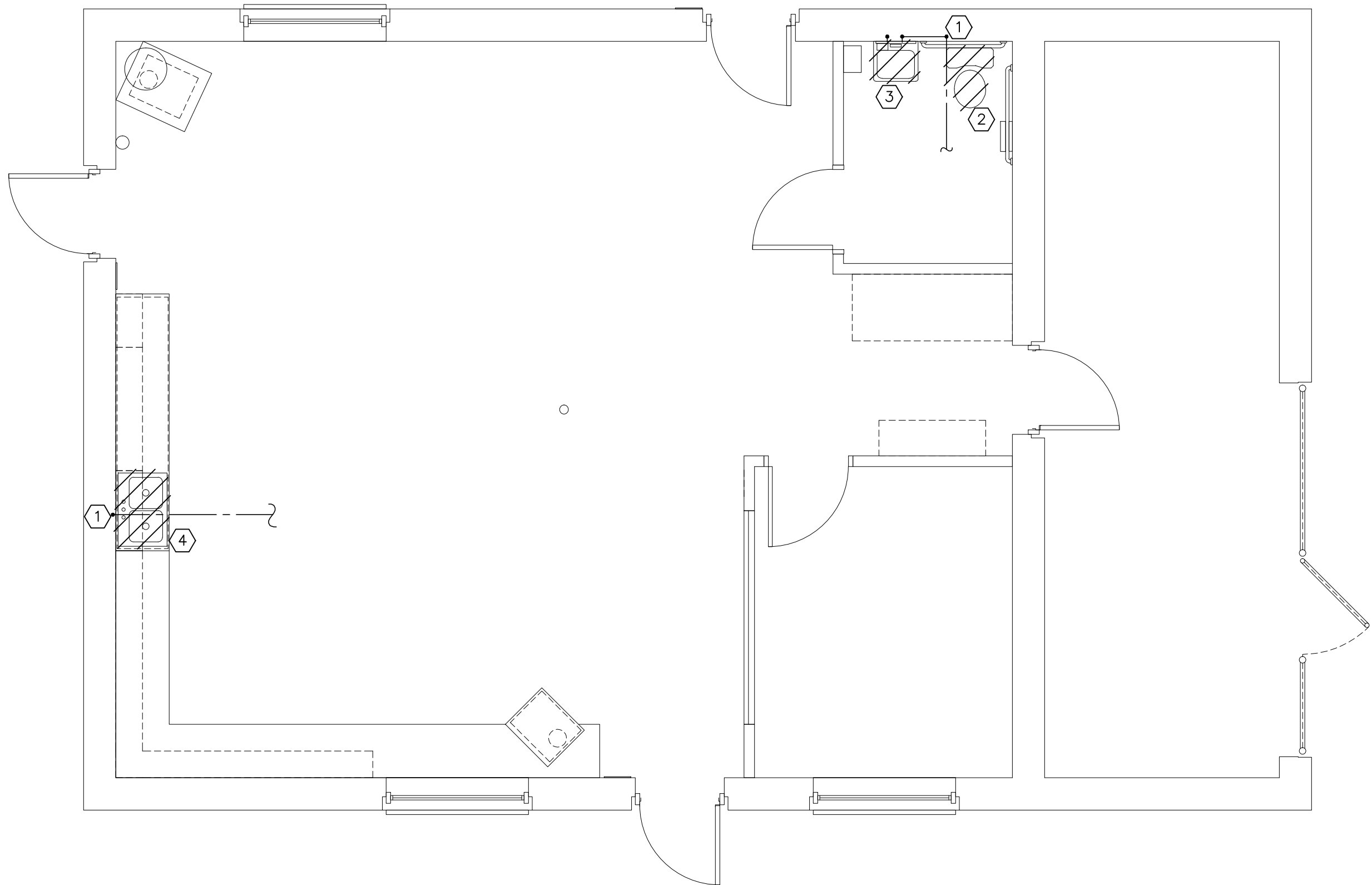


FLOOR PLAN: NEW – PLUMBING SUPPLY

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 CONNECT WATER PIPING TO NEW TOILET.
- 2 CONNECT NEW HOT AND COLD WATER PIPING TO EXISTING PIPING AT OLD LAVATORY LOCATION. ROUTE PIPING ON WALL BELOW TOILET TANK TO NEW LAVATORY LOCATION.
- 3 INSTALL NEW LAVATORY AND CONNECT FAUCET TO NEW WATER LINES. PROVIDE HEAVY PATTERN ANGLE STOPS.
- 4 INSTALL NEW STAINLESS STEEL SINK AND CONNECT FAUCET TO EXISTING PIPING.

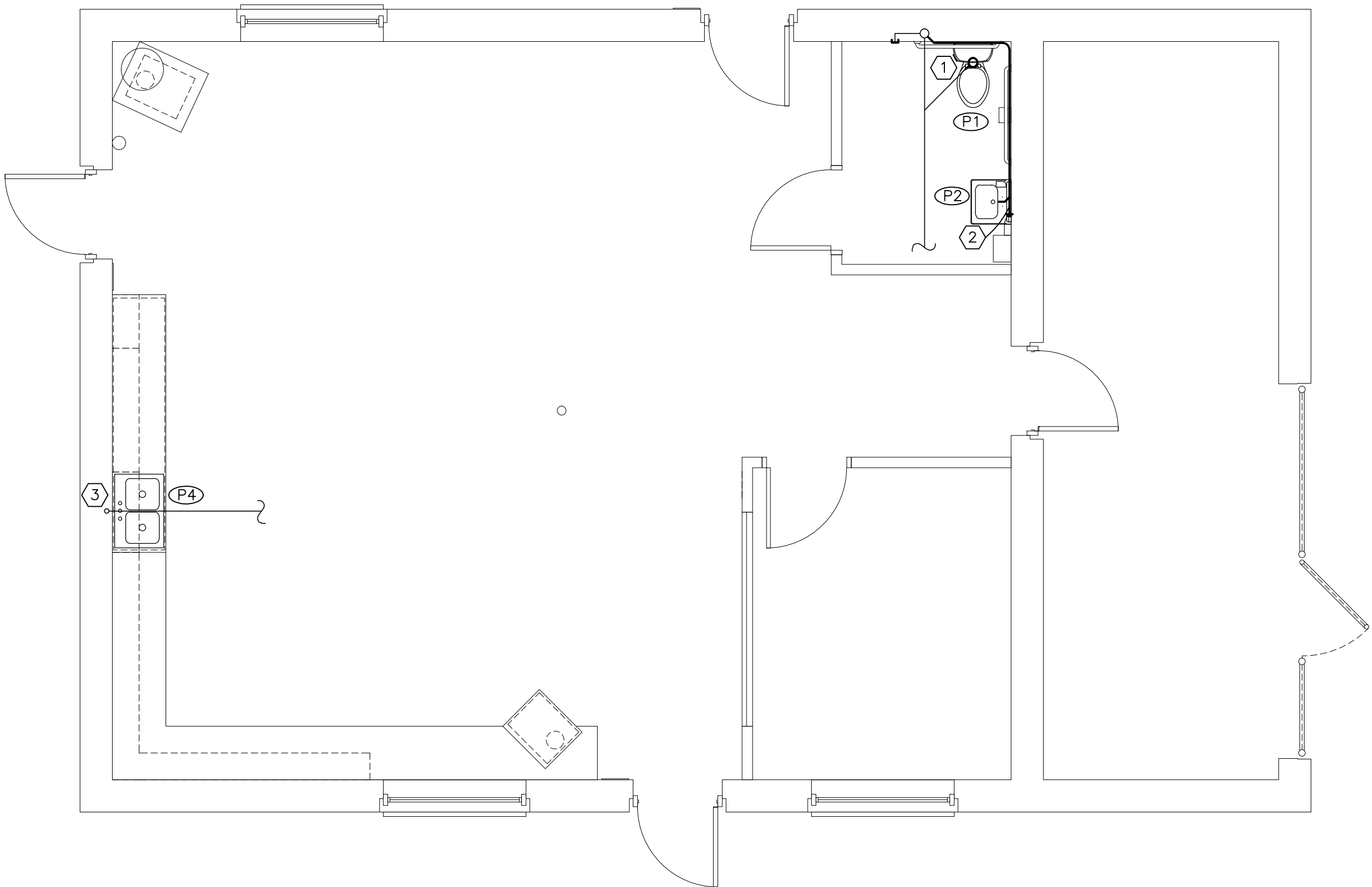


FLOOR PLAN: EXISTING – PLUMBING SUPPLY DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 EXISTING CW PIPE UP FROM BELOW SLAB.
- 2 REMOVE EXISTING TOILET.
- 3 REMOVE EXISTING LAVATORY.
- 4 REMOVE EXISTING DOUBLE BOWL STAINLESS STEEL SINK.

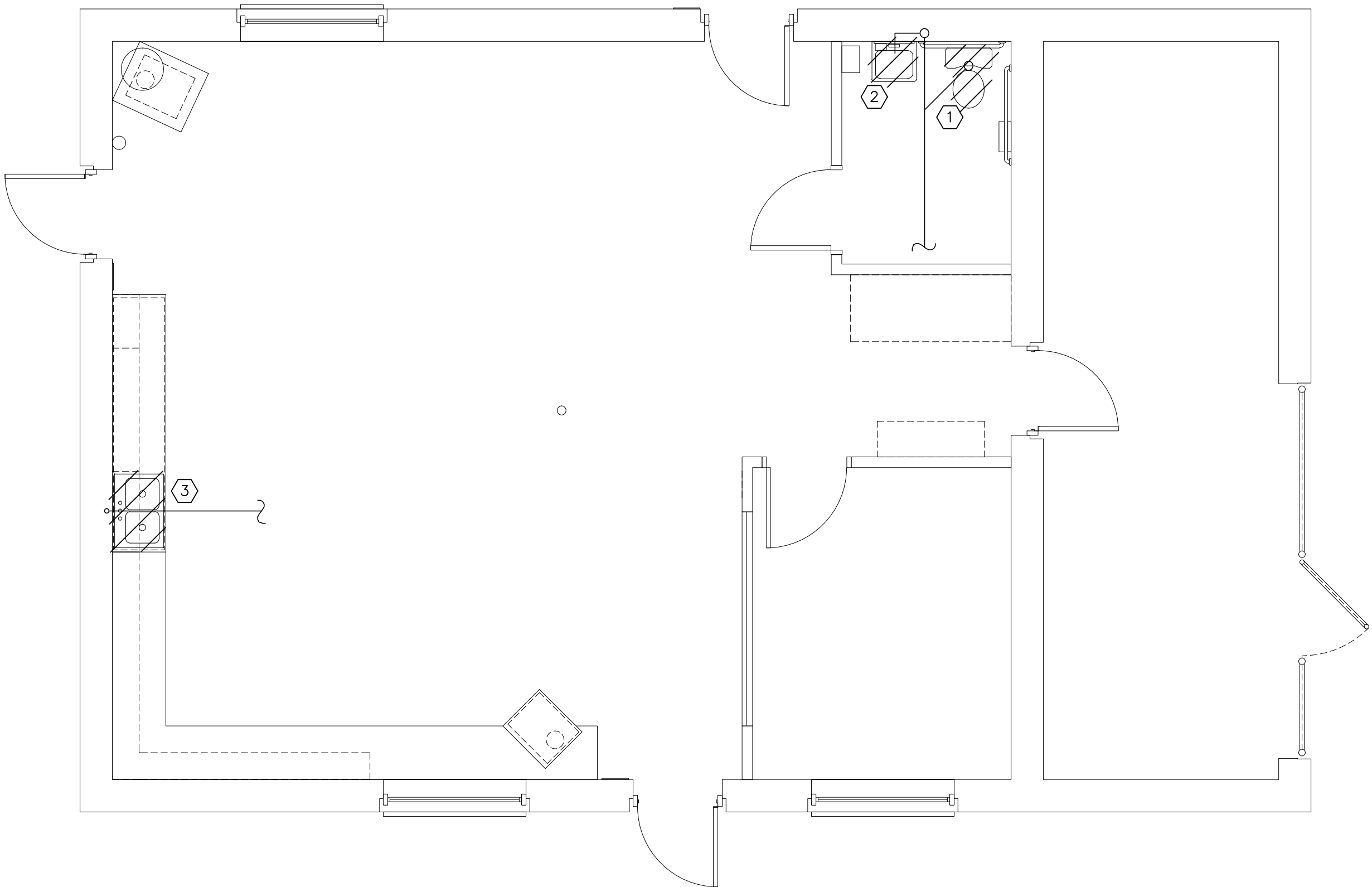


FLOOR PLAN: NEW – PLUMBING WASTE

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 INSTALL NEW TOILET. OFFSET FLANGE AS REQUIRED TO MOUNT NEW TOILET.
- 2 INSTALL NEW LAVATORY. ROUTE 2" DRAIN PIPING ON WALL, BELOW TOILET TANK AND MAKE CONNECTION IN WALL TO MAIN LINE. PROVIDE CLEAN OUT AND AIR ADMITTANCE DEVICE.
- 3 INSTALL STAINLESS STEEL SINK. PROVIDE NEW DRAIN PIPING AND P-TRAP. CONNECT TO EXISTING WASTE STUB OUT IN WALL.

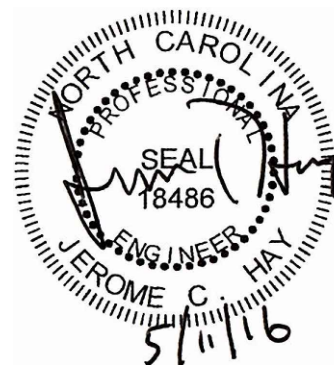
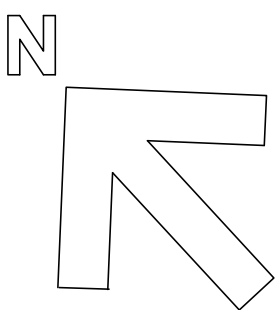


FLOOR PLAN: EXISTING – PLUMBING WASTE DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1 REMOVE TOILET.
- 2 REMOVE LAVATORY.
- 3 REMOVE EXISTING DOUBLE BOWL STAINLESS STEEL SINK.

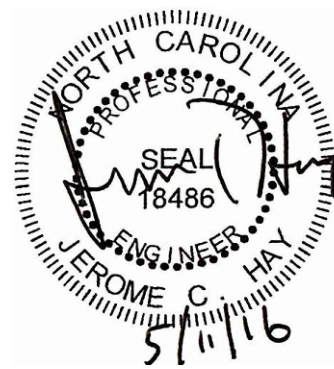


SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035	FLAT IRON BUILDING SUITE 708 20 BATTERY PARK AVENUE ASHEVILLE, NORTH CAROLINA 28825-252-4881
1813 CHAPEL HILL ROAD ASHEVILLE, NORTH CAROLINA 28806-3800 919-493-5277	This drawing and the design are the property of Sud Associates, P.A. Any reproduction or use of this drawing without the written permission is prohibited and infringement will be subject to legal action.
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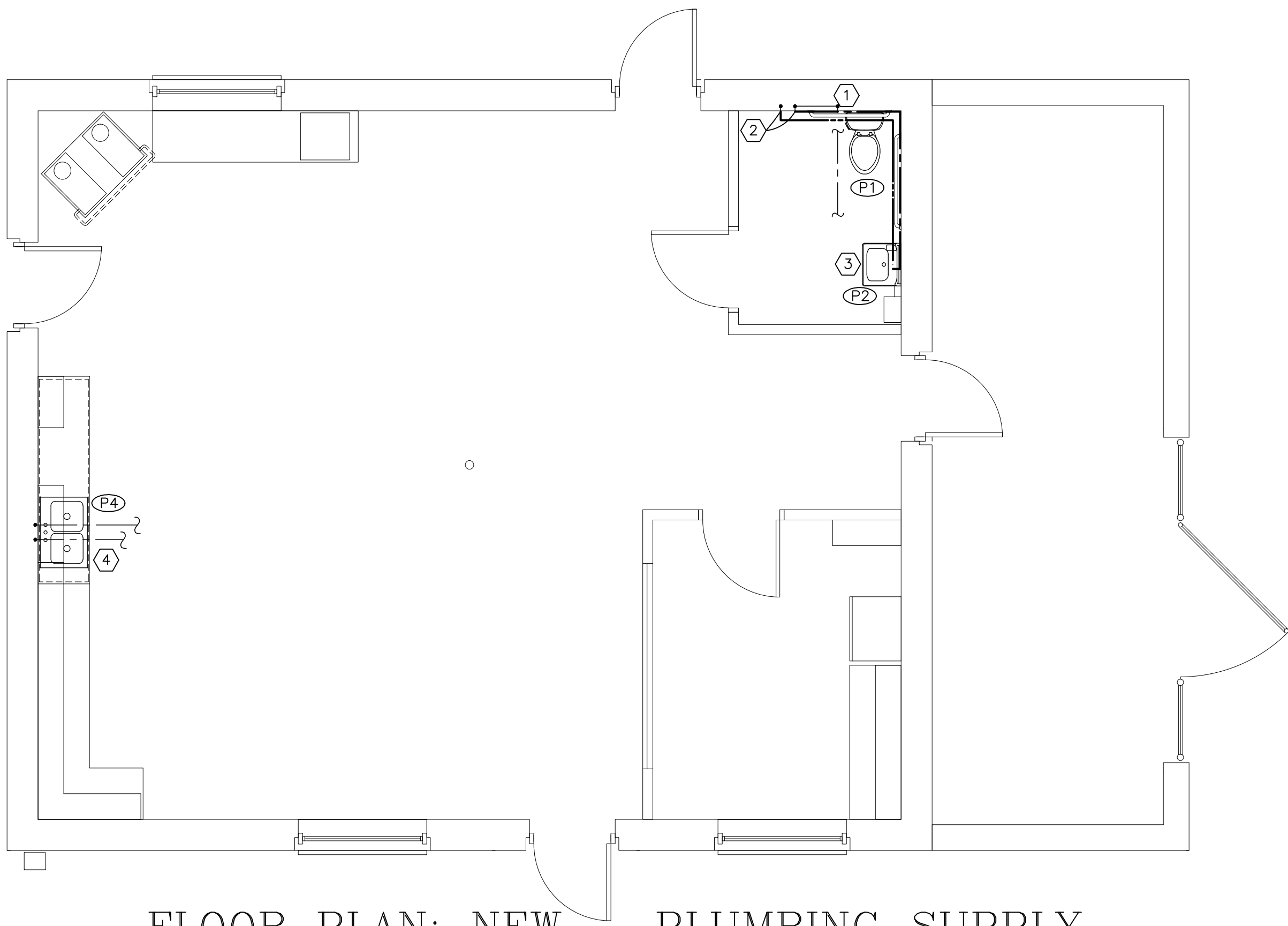
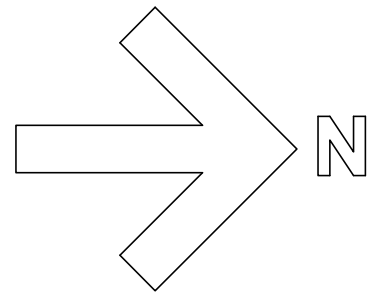
P501

REYNOLDS HS:
PLUMBING
FLOOR PLAN

DESIGNED BY: DCR
DATE: 5-11-16



SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035	FLAT IRON BUILDING SUITE 708 20 BATTERY PARK AVENUE ASHEVILLE, NORTH CAROLINA 28825-2525-4881
1813 CHAPEL HILL ROAD ASHEVILLE, NC 28806 919-493-5277	This drawing and the design are the property of Sud Associates, P.A. No reproduction, storage, or use of this drawing without the written permission is prohibited and infringement will be subject to legal action.
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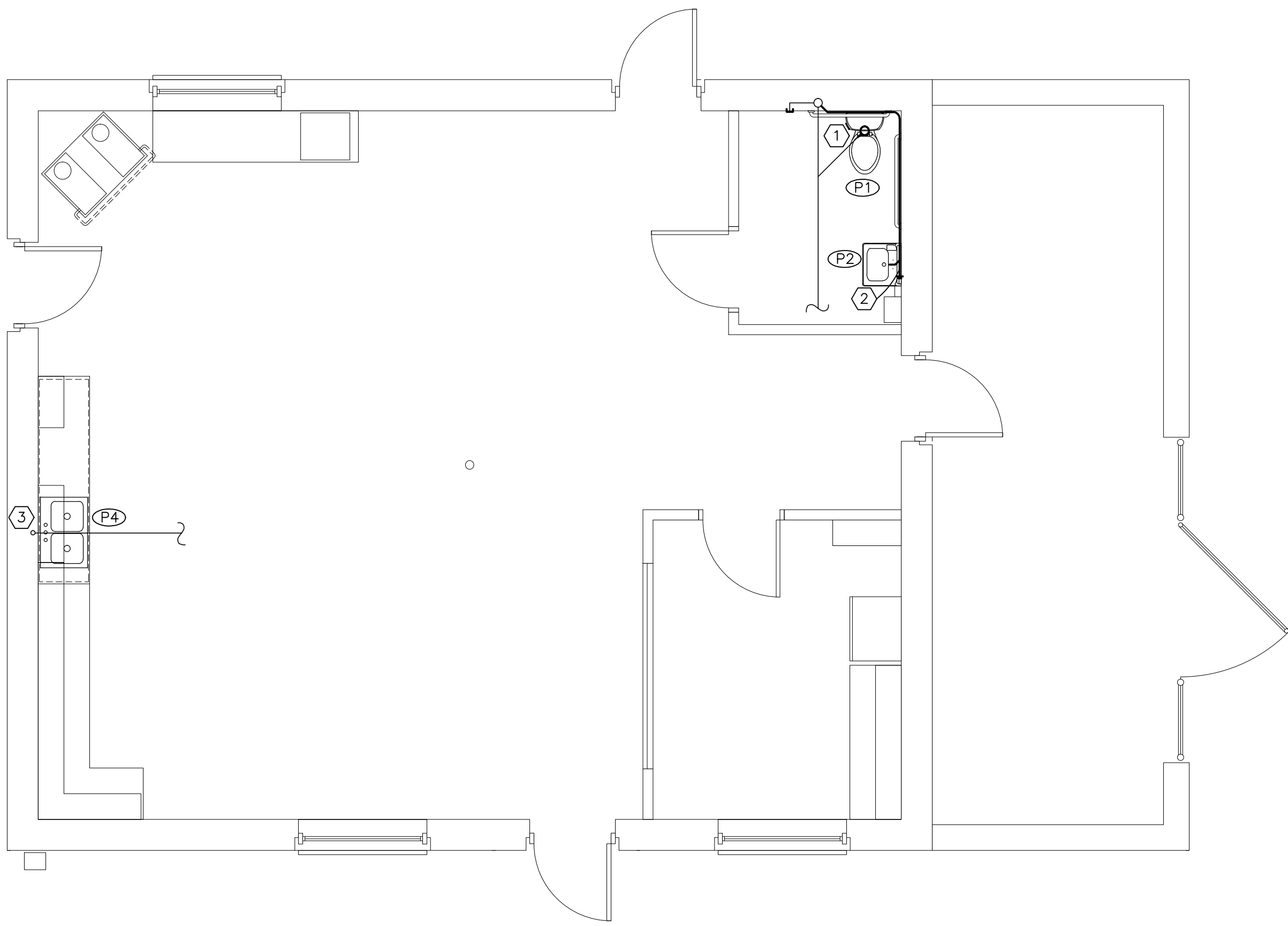


FLOOR PLAN: NEW – PLUMBING SUPPLY

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1) CONNECT WATER PIPING TO NEW TOILET.
- 2) CONNECT NEW HOT AND COLD WATER PIPING TO EXISTING PIPING AT OLD LAVATORY LOCATION. ROUTE PIPING ON WALL BELOW TOILET TANK TO NEW LAVATORY LOCATION.
- 3) INSTALL NEW LAVATORY AND CONNECT FAUCET TO NEW WATER LINES. PROVIDE HEAVY PATTERN ANGLE STOPS.
- 4) INSTALL NEW STAINLESS STEEL SINK AND CONNECT FAUCET TO EXISTING PIPING.

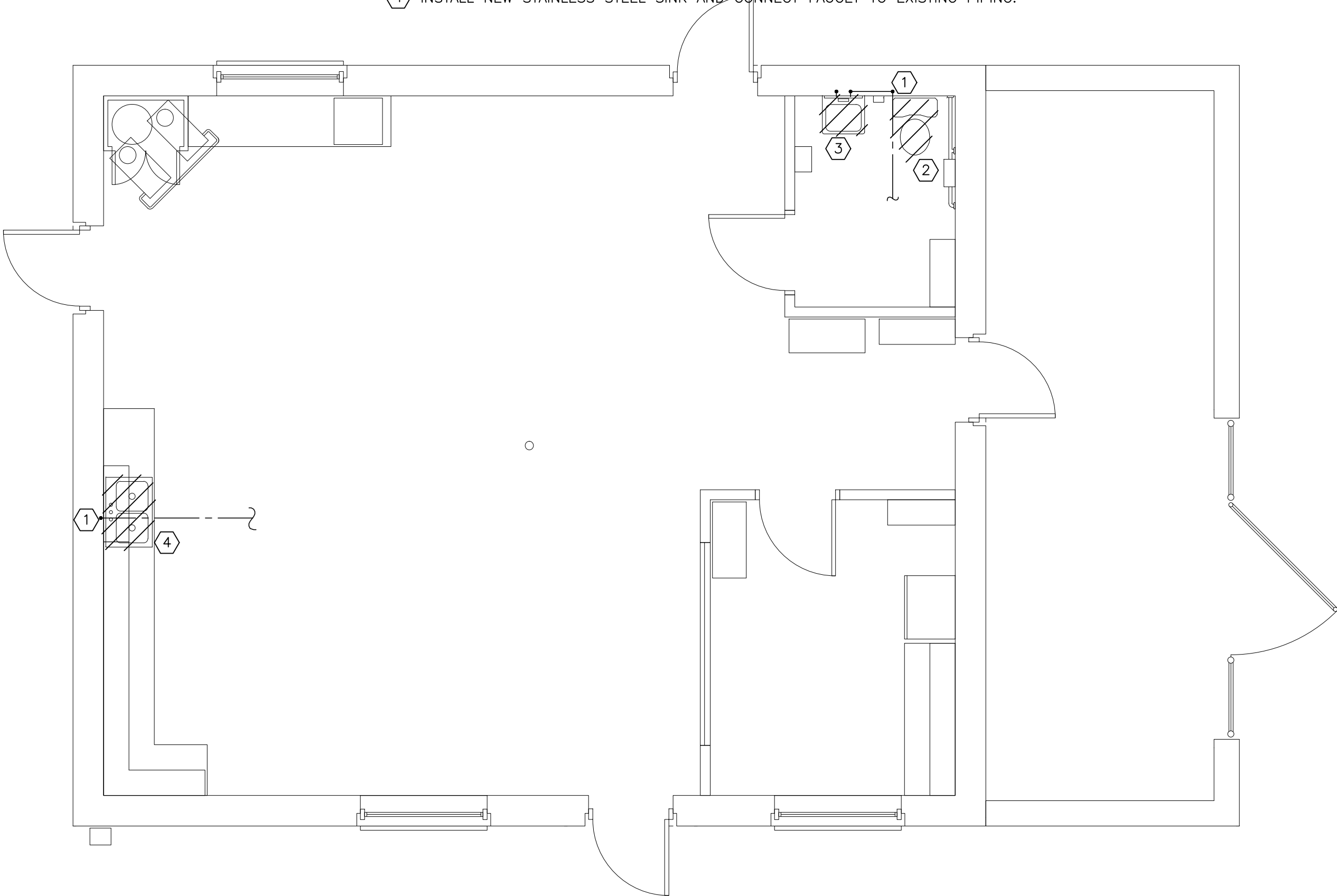


FLOOR PLAN: NEW – PLUMBING WASTE

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1) INSTALL NEW TOILET. OFFSET FLANGE AS REQUIRED TO MOUNT NEW TOILET.
- 2) INSTALL NEW LAVATORY. ROUTE 2" DRAIN PIPING ON WALL, BELOW TOILET TANK AND MAKE CONNECTION IN WALL TO MAIN LINE. PROVIDE CLEAN OUT AND AIR ADMITTANCE DEVICE.
- 3) INSTALL STAINLESS STEEL SINK. PROVIDE NEW DRAIN PIPING AND P-TRAP. CONNECT TO EXISTING WASTE STUB OUT IN WALL.

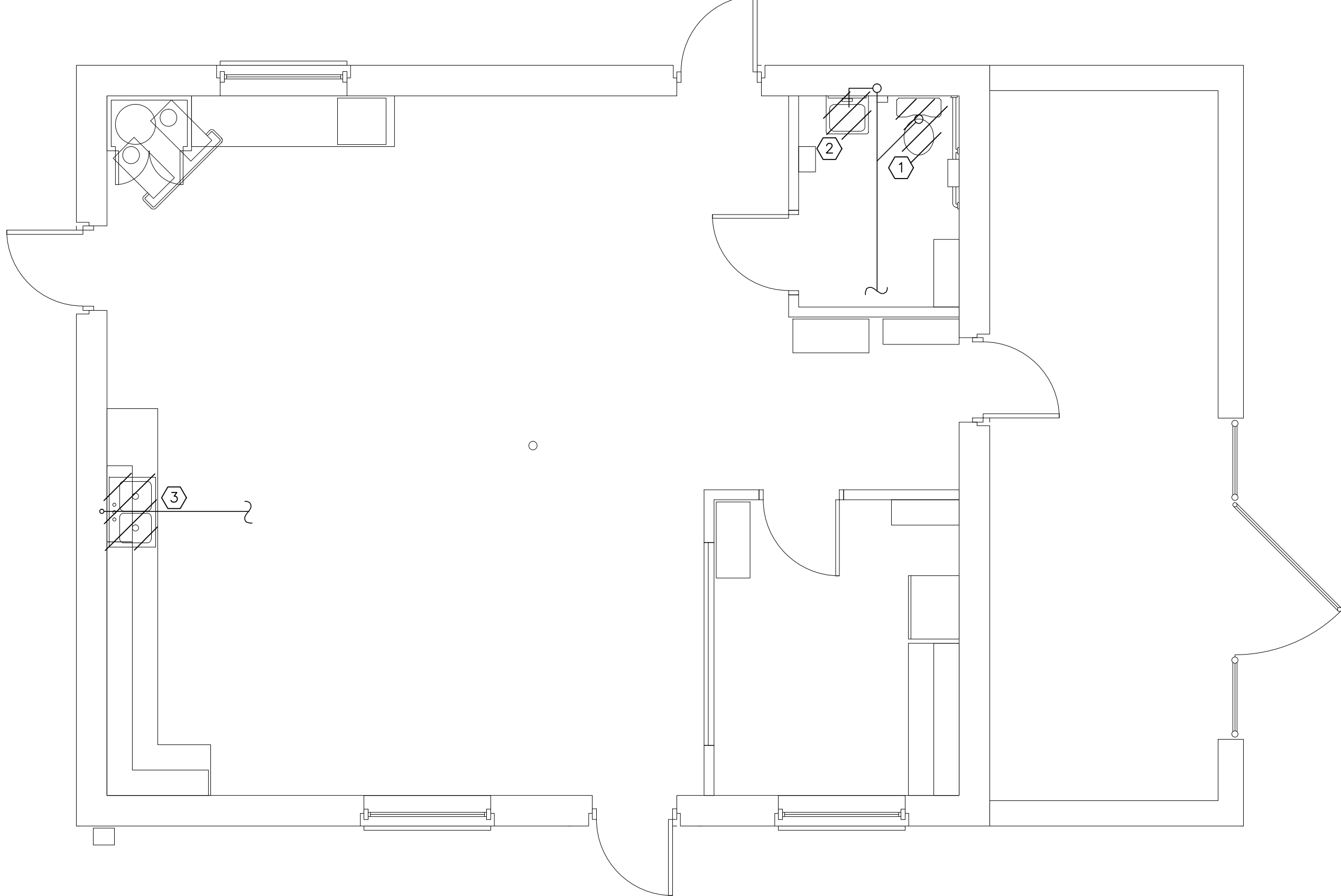


FLOOR PLAN: EXISTING – PLUMBING SUPPLY DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:

- 1) EXISTING CW PIPE UP FROM BELOW SLAB.
- 2) REMOVE EXISTING TOILET.
- 3) REMOVE EXISTING LAVATORY.
- 4) REMOVE EXISTING DOUBLE BOWL STAINLESS STEEL SINK.



FLOOR PLAN: EXISTING – PLUMBING WASTE DEMOLITION

1/4" = 1'-0"

KEYED PLUMBING NOTES:



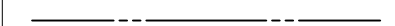



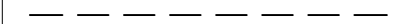
- 1) REMOVE TOILET.
- 2) REMOVE LAVATORY.
- 3) REMOVE EXISTING DOUBLE BOWL STAINLESS STEEL SINK.

PLUMBING FIXTURE SCHEDULE										
MARK	FIXTURE TYPE	MANUFACTURER	MODEL	MOUNTING	COLOR	DESCRIPTION	FIXTURE CONNECTION SIZES			
							C.W.	H.W.	Waste	Vent
P-1	WATER CLOSET (ACCESSIBLE)	KOHLER	K-3658	FLOOR RIM @ 16-1/2" AFF	WHITE	VITREOUS CHINA, ELONGATED BOWL, TANK TYPE 1.28 GPF. SIPHON JET FLUSHING ACTION, TRIP HANDLE ON APPROACH SIDE OF TOILET. SEAT: SOLID PLASTIC, OPEN FRONT, CHECK HINGE, WHITE / FULL FINISH, 16-1/2" HIGH, 12" ROUGH IN. ADA/NC ACCESSIBILITY CODE COMPLIANCE.	3/4"	-----	3"	2"
P-2	LAVATORY (ACCESSIBLE)	KOHLER	K-2867	WALL	WHITE	20"x18", CAST IRON, WALL HUNG, CONCEALED ARM CARRIER IN NEW WALLS OR WALL HANGER ON EXISTING WALLS, 2 HOLE, 1 1/4" CAST BRASS P-TRAP WITH C.O. PLUG, GRID DRAIN. PROVIDE INSULATION FOR EXPOSED SUPPLY AND WASTE PIPING BELOW LAVATORY. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	CHICAGO	895-317E2805-5ABCP	DECK	CHROME	DUAL 4" BLADE HANDLES, 4" CENTERS, SWIVEL GOOSENECK FAUCET. .5 GPM FLOW. BRASS CONSTRUCTION. ADA/NC ACCESSIBILITY CODE COMPLIANCE	1/2"	1/2"	1-1/2"	1-1/2"
P-3	SINK (ACCESSIBLE)	KOHLER	K-4011	COUNTERTOP	STAINLESS STEEL	25" X 22" SELF RIMMING SINGLE COMPARTMENT, 3 HOLE. MAX. 6" DEPTH, SOUND INSULATING UNDERCOATING. CENTER REAR DRAIN LOCATIONS, 1-1/2" CAST BRASS P-TRAP WITH C.O. PLUG. PROVIDE INSULATION FOR EXPOSED SUPPLY AND WASTE PIPING BELOW SINK. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	CHICAGO	786-E29VPABCP	DECK	CHROME	DUAL 4" BLADE HANDLES, 8" CENTERS, SWIVEL GOOSENECK FAUCET. .5 GPM FLOW. BRASS CONSTRUCTION. ADA/NC ACCESSIBILITY CODE COMPLIANCE	1/2"	1/2"	1-1/2"	1-1/2"
P-4	SINK (ACCESSIBLE)	KOHLER	K-4015	COUNTERTOP	STAINLESS STEEL	33" X 22" SELF RIMMING DOUBLE COMPARTMENT, 3 HOLE. MAX. 6" DEPTH, SOUND INSULATING UNDERCOATING. CENTER REAR DRAIN LOCATIONS, 1-1/2" CAST BRASS P-TRAP WITH C.O. PLUG. PROVIDE INSULATION FOR EXPOSED SUPPLY AND WASTE PIPING BELOW SINK. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
	FAUCET	CHICAGO	786-E29VPABCP	DECK	CHROME	DUAL 4" BLADE HANDLES, 8" CENTERS, SWIVEL GOOSENECK FAUCET. .5 GPM FLOW. BRASS CONSTRUCTION. ADA/NC ACCESSIBILITY CODE COMPLIANCE	1/2"	1/2"	1-1/2"	1-1/2"

NOTE: MANUFACTURER AND MODEL ARE BASIS OF DESIGN. APPROVED EQUALS WILL BE ACCEPTED.

PLUMBING GENERAL NOTES:

- UNLESS OTHERWISE INDICATED PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING REQUIRED TO INSTALL PLUMBING WORK.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLUMBING RELATED WORK WITH OTHER TRADES. PLUMBING CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES.
- VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXIST. CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXIST. CONDITIONS TO DETERMINE THE EXACT SCOPE OF WORK. "KEYED" NOTES ON THE DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF WORK.
- EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
- ALL SHUTDOWNS OF THE EXISTING UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ANY CONCRETE, TRENCHING AND BACKFILL REQUIRED TO INSTALL PIPING. GC IS RESPONSIBLE FOR CONCRETE REPAIR.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES NOT SHOWN ON PLANS.
- PLUMBER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT INCLUDING BUT NOT LIMITED TO; STOP VALVES, SUPPLY HOSES, AND P-TRAPS ETC. PC SHALL INSTALL ALL FIXTURES, FAUCETS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING PROJECT. SEE FIXTURE SCHEDULE FOR PIPE SIZES AND PC SUPPLIED FIXTURES.
- WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE TIME OF ACCEPTANCE BY THE OWNER. IF WITHIN ONE YEAR AFTER THE OWNER'S ACCEPTANCE DATE ANY WORK OR EQUIPMENT IS FOUND TO BE DEFECTIVE, CORRECT IT PROMPTLY AT NO COST TO THE OWNER.
- A PLUMBING INSPECTION CERTIFICATE SHALL BE ISSUED BY THE INSPECTION AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
- ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE 95/5 TIN ANTIMONY SOLDER.
- ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH CLOSED CELL INSULATION.
- WASTE AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE SCHEDULE 40 PVC.
- NO DEAD LEGS ARE PERMITTED WHEN WASTE PIPE IS DEMOLISHED. REVISE AND CAP PIPE AS NEEDED TO PREVENT THIS CONDITION.
- ALL PIPING EXPOSED ON WALLS SHALL BE PROTECTED WITH STAINLESS STEEL SHROUD SECURED TO THE WALL TO PREVENT DAMAGE. COORDINATE STYLE AND MOUNTING OF SHROUD WITH OWNER.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	EXISTING COLD WATER
	NEW COLD WATER
	EXISTING HOT WATER
	NEW HOT WATER
	EXISTING SANITARY WASTE
	NEW SANITARY WASTE
	VENT

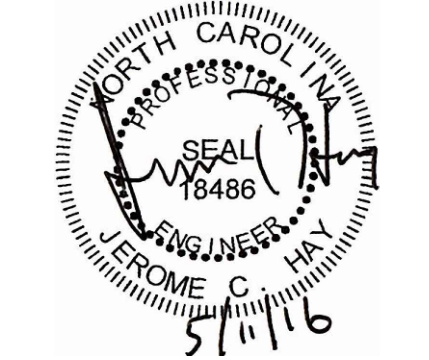
Buncombe County Schools

Facilities and Planning

Timothy Fierle ATA, Director

175 Bingham Road □ Asheville, N.C. 28806-3800

Phone: (828) 255-5916 Fax: (828) 255-5923



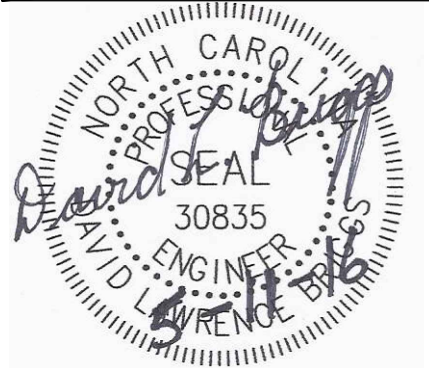
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CONSULTING ENGINEERS
LICENSE # C-1035

1613 CHAPEL HILL ROAD
CARRINGTON, NC 28580
919-493-5277

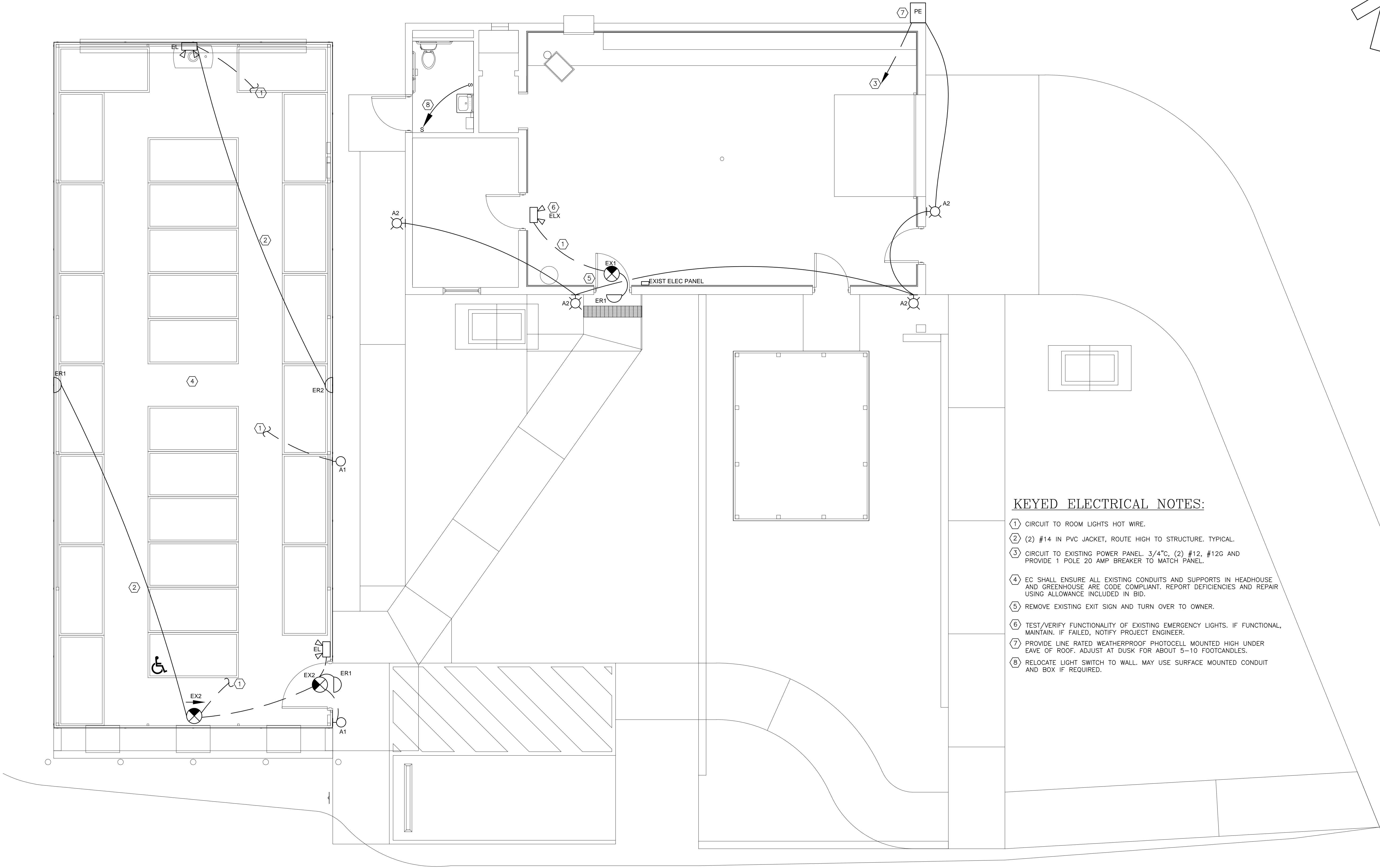
FLAT IRON BUILDING SUITE 708
20 BATTERY PARK AVENUE
ASHEVILLE, NC 28801
828-252-4891

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PROJECT NO. 13202

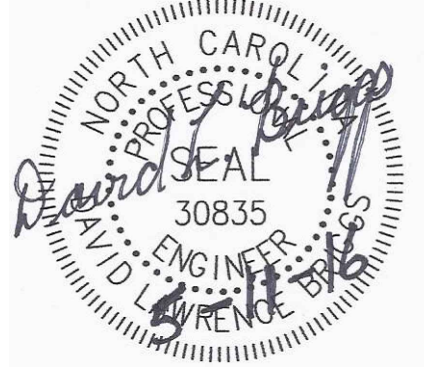
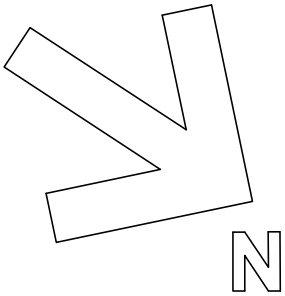


SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035	FLAT IRON BUILDING SUITE 708 20 BATTERY PARK AVENUE ASHEVILLE, NORTH CAROLINA 828-252-4891
	1813 CHAPEL HILL ROAD ASHEVILLE, NORTH CAROLINA 828-252-5277
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PROJECT NO. 15226	



FLOOR PLAN: NEW – ELECTRICAL

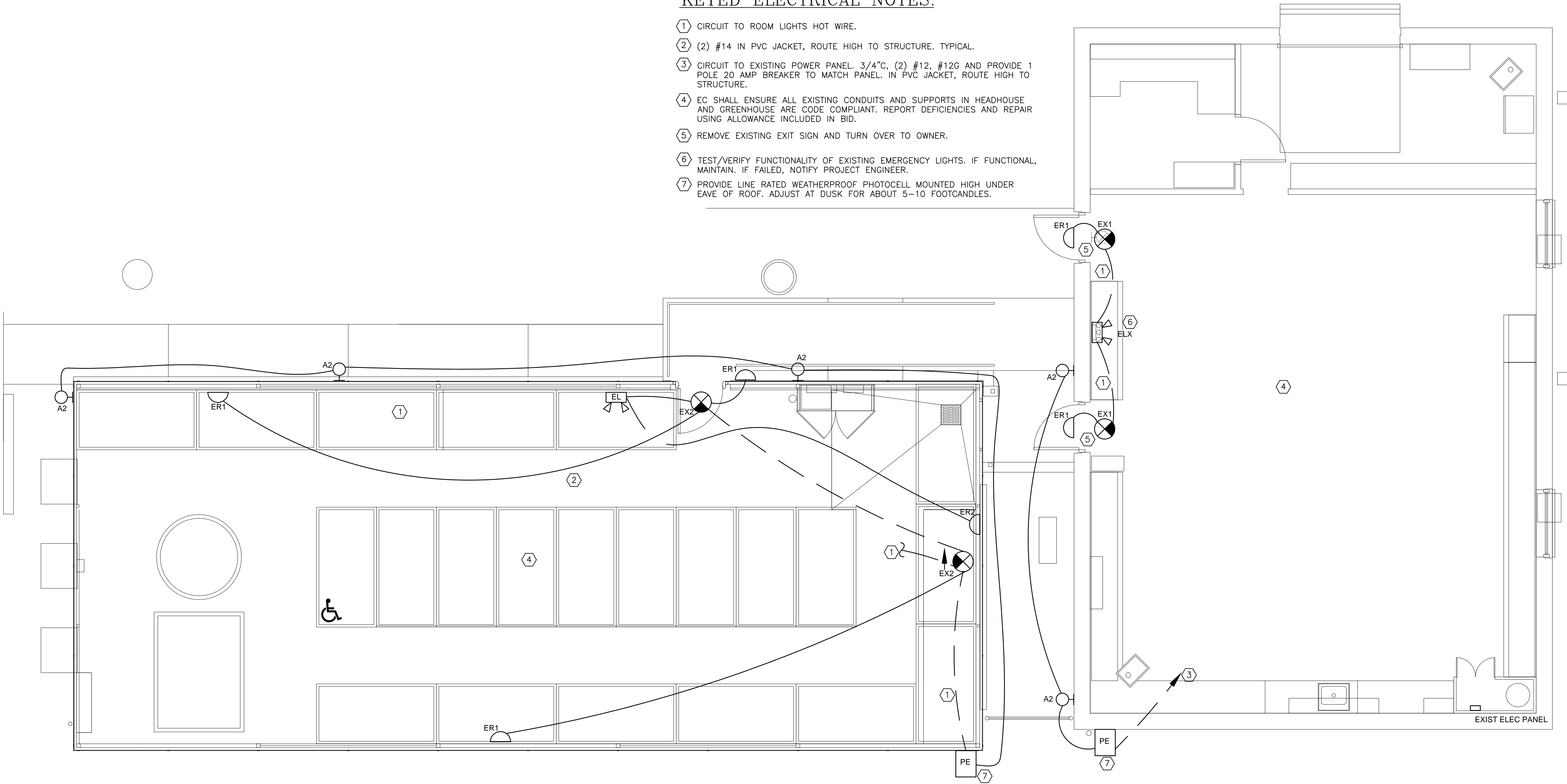
1/4" = 1'-0"



SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035 1613 CHAPEL HILL ROAD CARRBORO, NC 27513 919-493-5277	FLAT IRON BUILDING SUITE 706 20 BATTERY PARK AVENUE ASHEVILLE, NC 28801 828-252-4891
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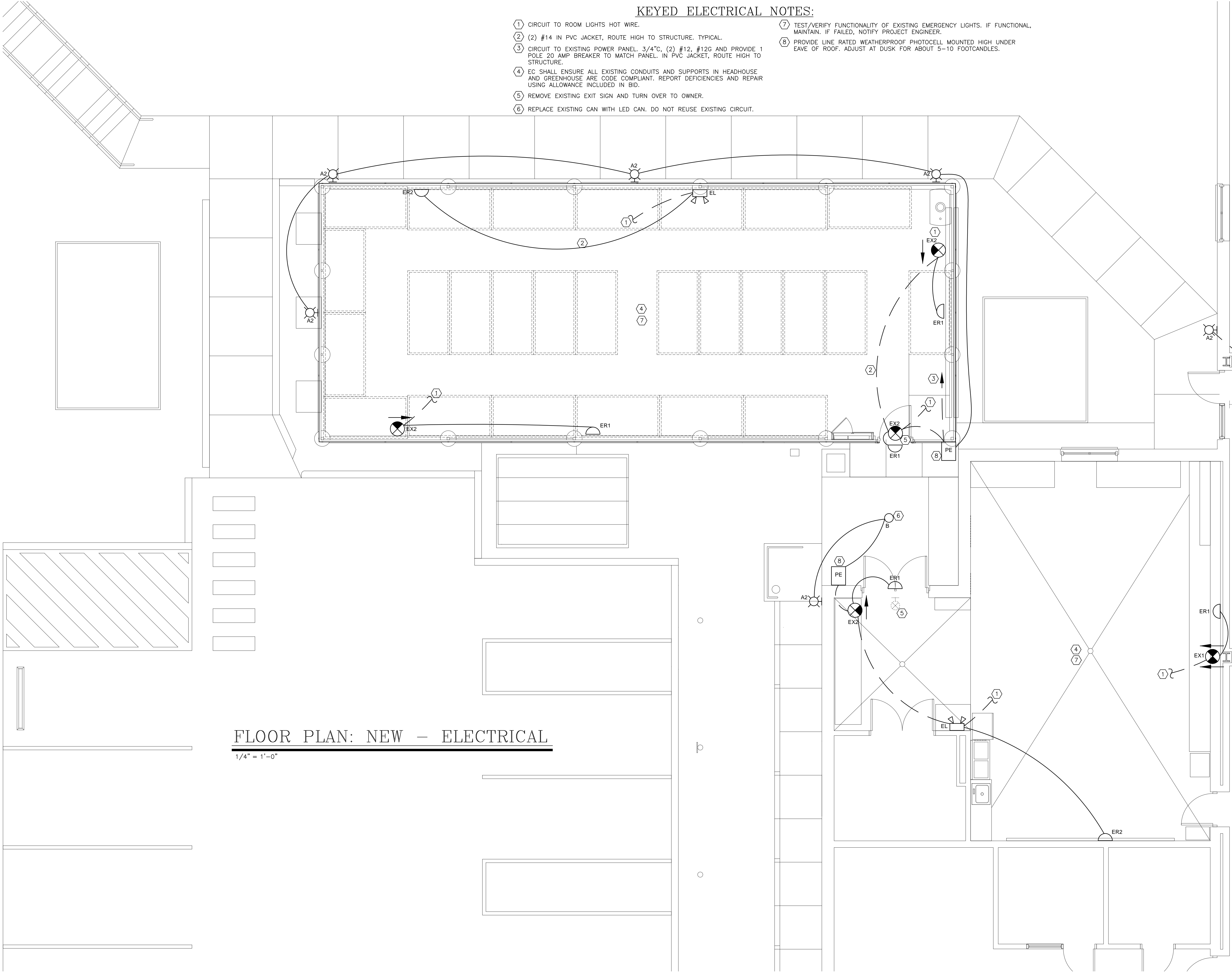
KEYED ELECTRICAL NOTES:

- 1 CIRCUIT TO ROOM LIGHTS HOT WIRE.
- 2 (2) #14 IN PVC JACKET, ROUTE HIGH TO STRUCTURE. TYPICAL.
- 3 CIRCUIT TO EXISTING POWER PANEL. 3/4"C, (2) #12, #12G AND PROVIDE 1 POLE 20 AMP BREAKER TO MATCH PANEL. IN PVC JACKET, ROUTE HIGH TO STRUCTURE.
- 4 EC SHALL ENSURE ALL EXISTING CONDUITS AND SUPPORTS IN HEADHOUSE AND GREENHOUSE ARE CODE COMPLIANT. REPORT DEFICIENCIES AND REPAIR USING ALLOWANCE INCLUDED IN BID.
- 5 REMOVE EXISTING EXIT SIGN AND TURN OVER TO OWNER.
- 6 TEST/VERIFY FUNCTIONALITY OF EXISTING EMERGENCY LIGHTS. IF FUNCTIONAL, MAINTAIN. IF FAILED, NOTIFY PROJECT ENGINEER.
- 7 PROVIDE LINE RATED WEATHERPROOF PHOTOCELL MOUNTED HIGH UNDER EAVE OF ROOF. ADJUST AT DUSK FOR ABOUT 5-10 FOOTCANDLES.



FLOOR PLAN: NEW – ELECTRICAL

1/4" = 1'-0"



- KEYED ELECTRICAL NOTES:
- 1

CIRCUIT TO ROOM LIGHTS HOT WIRE.

2

(2) #14 IN PVC JACKET, ROUTE HIGH TO STRUCTURE. TYPICAL.

3

CIRCUIT TO EXISTING POWER PANEL. 3/4"C, (2) #12, #12G AND PROVIDE 1 POLE 20 AMP BREAKER TO MATCH PANEL. IN PVC JACKET, ROUTE HIGH TO STRUCTURE.

4

EC SHALL ENSURE ALL EXISTING CONDUITS AND SUPPORTS IN HEADHOUSE AND GREENHOUSE ARE CODE COMPLIANT. REPORT DEFICIENCIES AND REPAIR USING ALLOWANCE INCLUDED IN BID.

5

REMOVE EXISTING EXIT SIGN AND TURN OVER TO OWNER.

6

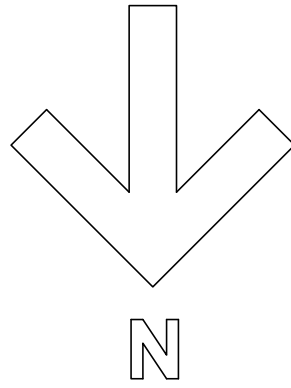
REPLACE EXISTING CAN WITH LED CAN. DO NOT REUSE EXISTING CIRCUIT.

7

TEST/VERIFY FUNCTIONALITY OF EXISTING EMERGENCY LIGHTS. IF FUNCTIONAL, MAINTAIN. IF FAILED, NOTIFY PROJECT ENGINEER.

8

PROVIDE LINE RATED WEATHERPROOF PHOTOCELL MOUNTED HIGH UNDER EAVE OF ROOF. ADJUST AT DUSK FOR ABOUT 5-10 FOOTCANDLES.



SUD ASSOCIATES, P.A.
CONSULTING ENGINEERS
LICENSE # C-1035

1813 CHAPEL HILL ROAD
CARRBORO, NC 27521
919-493-5277

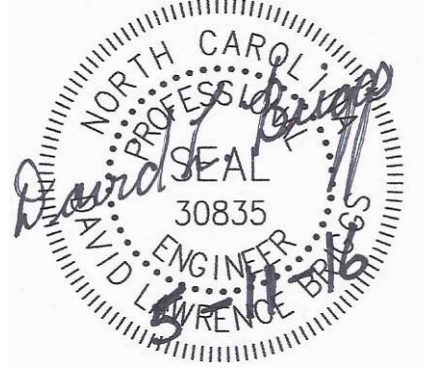
FLAT IRON BUILDING SUITE 708
20 BATTERY PARK AVENUE
ASHEVILLE, NC 28801
828-252-4891

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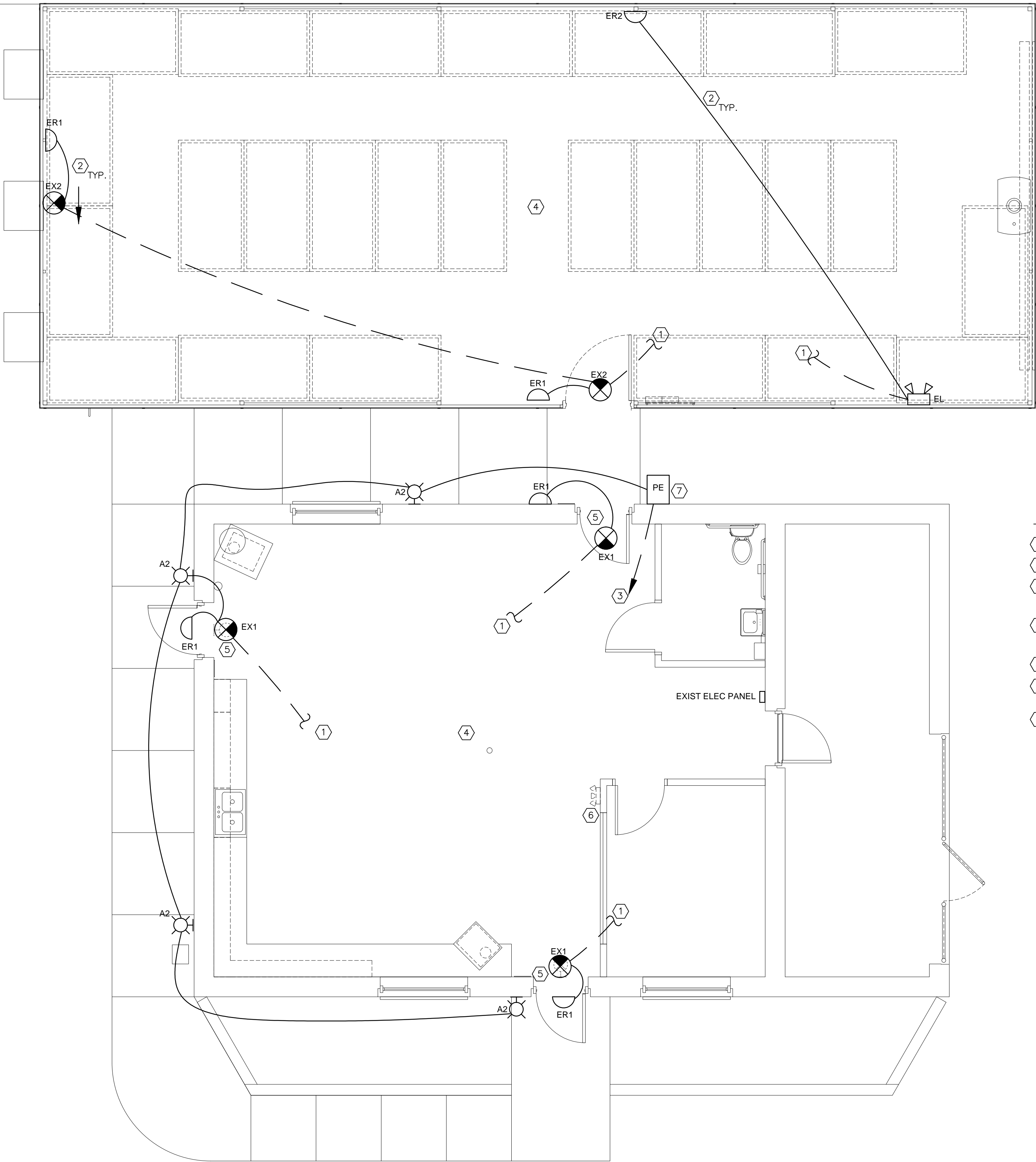
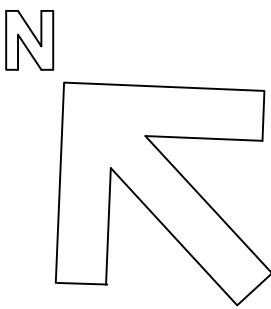
PROJECT NO. 15226

Buncombe County Schools
Facilities and Planning

Timothy Fierle ATA, Director
175 Bingham Road □ Asheville, N.C. 28806-3800
Phone: (828) 255-5916 Fax: (828) 255-5923



SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035	FLAT IRON BUILDING SUITE 706 20 BATTERY PARK AVENUE ASHEVILLE, NORTH CAROLINA 828-255-4891
1813 CHAPEL HILL ROAD ASHEVILLE, NORTH CAROLINA 828-255-5277	This drawing and the design are the property of Sud Associates, P.A. Copying, reproducing, or otherwise using this drawing without the written permission of the engineer is prohibited and infringement will be subject to legal action.
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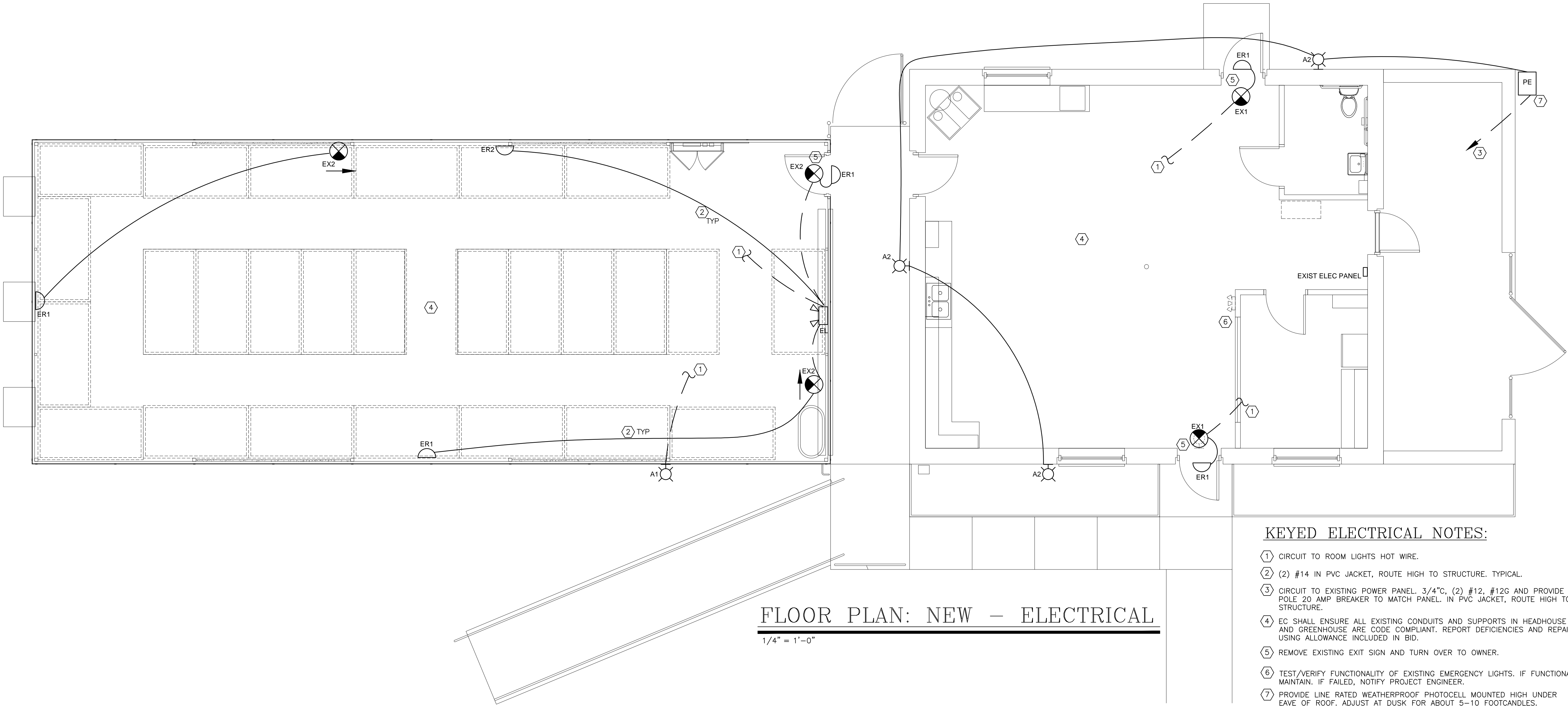
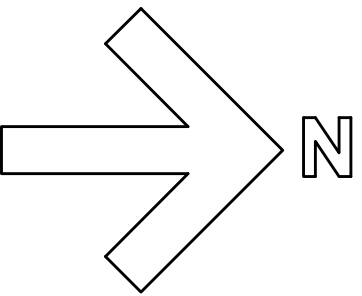


KEYED ELECTRICAL NOTES:

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- 7 PROVIDE LINE RATED WEATHERPROOF PHOTOCELL MOUNTED HIGH UNDER EAVE OF ROOF. ADJUST AT DUSK FOR ABOUT 5-10 FOOTCANDLES.

FLOOR PLAN: NEW – ELECTRICAL

1/4" = 1'-0"

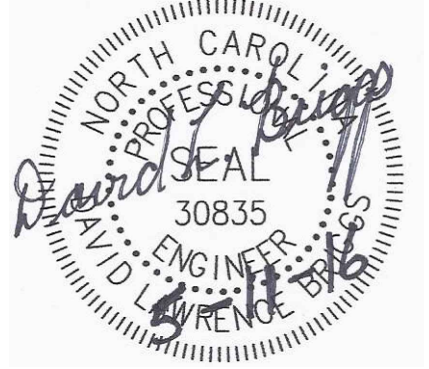


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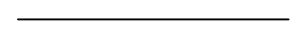


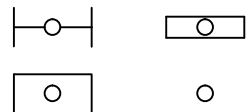






**Buncombe County Schools
Facilities and Planning**

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SUD ASSOCIATES, P.A. CONSULTING ENGINEERS LICENSE # C-1035 1813 CHAPEL HILL ROAD CARRINGTON, NC 27513 919-493-5277	FLAT IRON BUILDING SUITE 708 20 BATTERY PARK AVENUE ASHEVILLE, NC 28801 828-252-4891
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PROJECT NO. 15226	

LIGHTING FIXTURE SCHEDULE - OWEN HIGH SCHOOL								
TYPE	DESCRIPTION	OEM & MODEL # : BASIS OF DESIGN *	MOUNTING	VOLT	LAMPS	BALLAST /FIXT.	WATT/ FIXT.	NOTES
A1	WALL MOUNT, 40W LED, WET LOCATION RATED, DARK SKY RATED , INTEGRAL PHOTOCELL	STONCO #LP-16-W-PCB1	WALL @ 10' - 12' AFG	120	40W LED	1	45	3
B	6" LED DOWNLIGHT, 14 W, 3500K, CRI 80, MICRO PRISM LENS, SEMI DIFUSE, 120 VAC UNIVERDAL BALLAST, CORROSION RESISTANT, WET LOCATION RATED, RECESSED	SPECTRUM MODEL #SGE6MRILEDOS-14W-E1-CR-PR-AR6223OS-MW-SO-GS	CEILING RECESSED	120	14 WATT LEDs	1	20	3
A2	WALL MOUNT, 40W LED, WET LOCATION RATED, DARK SKY RATED	STONCO #LP-16-W	WALL @ 10' - 12' AFG	120	40W LED	1	45	3
EL	EMERGENCY LIGHT, WET LOCATION RATED, (2) 10 WATT HEADS	LIGHTALARMS #2-VH12G1-M10-G-D	WALL OR CEILING @ 8' - 10' AFF	120	(2) 12VDC - 10W HEADS	1	50	3, 4
ER1	REMOTE EMERGENCY LIGHT, (2) 6W 6VDC HEADS IN NEMA 4X BUBBLE LENS, 0° C RATED	LIGHTALARMS #ELF650D/M6-M-6	WALL OR CEILING @ 8' - 10' AFF	6VDC	(2) 6VDC - 6W HEADS	-	12	3, 4
ER2	REMOTE EMERGENCY LIGHT, (2) 10WATT, 12VDC HEADS IN NEMA 4X BUBBLE LENS, 0° C RATED	LIGHTALARMS #ELF650D/M10-M-12	WALL OR CEILING @ 8' - 10' AFF	12VDC	(2) 12VDC - 10W HEADS	-	20	3, 4
EX1	RED LED EXIT SIGN, 12W REMOTE CAPACITY AT 6VDC, UNIVERSAL MOUNT	LIGHTALARMS #UQLXN500-R-O-R-ID	WALL OR CEILING @ 8' - 10' AFF	120	RED LED	1	25	-
EX2	RED LED EXIT SIGN, 12W REMOTE CAPACITY AT 6VDC, UNIVERSAL MOUNT, WET LOCATION RATED	LIGHTALARMS #XVH12H-GG-R-D	WALL OR CEILING @ 8' - 10' AFF	120	RED LED	1	25	-
1. FLUORESCENT LAMPS TO BE 3500° K, CRI>80, 25,000 HRS MINIMUM 2. FLUORESCENT BALLASTS TO BE ELECTRONIC INSTANT START, SOUND RATING "A" 3. BALLAST/POWER SUPPLY AND FIXTURE RATED FOR 0°F OPERATION 4. ADJUST HEADS TO COVER EGRESS PATH, REVIEW WITH OWNER								

GENERAL ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	PHOTO ELECTRIC, LINE RATED, WET LOCATION RATED, SET AT 5FTC.
	JUNCTION BOX
	TYPICAL LIGHT FIXTURES LETTER INDICATES TYPE
	TYPICAL EXIT SIGN - NUMBER OF FACES AND DIRECTIONAL ARROWS INDICATED, LETTER INDICATES TYPE
	EMERGENCY LIGHTING UNIT
	EXISTING EMERGENCY LIGHTING UNIT
	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
	HOMERUN CIRCUIT TO PANEL - CIRCUIT INDICATED

STANDARD MOUNTING HEIGHTS FOR DEVICES (ALL DIMENSIONS ARE TO CENTERLINE OF DEVICE AFF OR AFG)	
LIGHTING	
EXIT SIGNS	8' TO 10', DO NOT EXCEED 14'
EMERGENCY LIGHTS	8' TO 10'
PHOTOCELLS	8' TO 10'
OUTDOOR WALL MOUNTED LIGHTS	8' TO 12'
* COORDINATE WITH ARCHITECTURAL DETAILS	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
AHU	AIR HANDING UNIT	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	N	NEUTRAL
ATC	ASTRONOMICAL TIME CLOCK	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	PE	PHOTOCELL
BFG	BELOW FINISHED GRADE	PNL	PANELBOARD
C	CONDUIT (AND DEVICE COUNTER HEIGHT)	RSC	RIGID STEEL CONDUIT
CU	COPPER	UNO	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	W	WET LOCATION RATED
EX	EXIT SIGN	WIR	WIRE (SIZE/RATING)
EXK	EXISTING TYPE K		
G	GROUND		

SCOPE OF WORK

PROVIDE TEMPORARY CONSTRUCTION PHASE POWER AND LIGHTING FOR ALL TRADES AS NEEDED.

PROVIDE SUBMITTALS ON ALL LIGHTING FIXTURES AND CONTROLS.

PROVIDE ALL ELECTRICAL SHOWN ON DRAWINGS AND SPECIFICATIONS AND AS NEEDED TO PROVIDE A COMPLETE FUNCTIONAL INSTALLATION IN COMPLIANCE WITH STATE AND LOCAL CODES.

PROVIDE FIELD COORDINATION WITH OTHER TRADES AND PROVIDE RED-LINE MARKED UP DRAWINGS TO OWNER OF ALL FIELD CHANGES.

TEST FOR FUNCTIONALLY OF ALL EQUIPMENT. ASSIST OTHER TRADES AS NEEDED.

TEST AND CERTIFY EXIT AND EGRESS LIGHTING.

TEST AND ADJUST OUTDOOR LIGHT CONTROLS AT DUSK - AFTER DARK WITH OWNER'S REPRESENTATIVE.

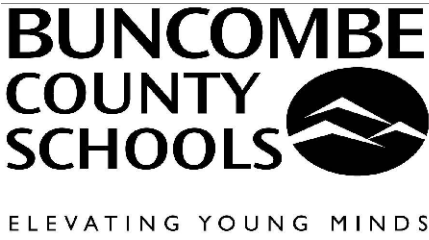
PROVIDE ALL REQUIRED ELECTRICALLY RELATED PERMITS AND INSPECTIONS.

PROVIDE ONE YEAR WARRANTY ON ALL PARTS AND LABOR FROM DATE OF PROJECT ACCEPTANCE.

PROVIDE FRONT ENTRY ACCESS CONTROL SYSTEM.

GENERAL NOTES (ALL ELECTRICAL SHEETS)

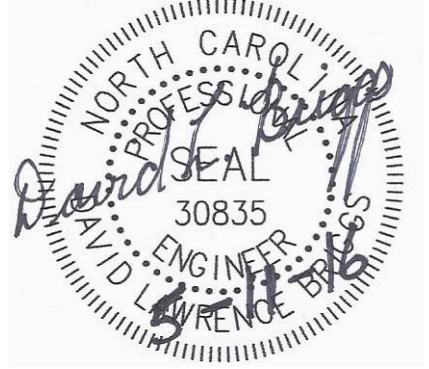
- THIS DRAWING IS DIAGRAMMATIC AND INDICATES THE APPROXIMATE LOCATION OF DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON SITE. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL WORK IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND IN AN INDUSTRY STANDARD WORKMANLIKE MANNER.
- NMC (ROMEX AND SE CABLE FOR FEEDERS) IS NOT ACCEPTABLE. AC/MC CABLE IS ACCEPTABLE IN CONCEALED LOCATIONS SUCH AS IN WALLS AND ABOVE CEILINGS. EMT CONDUITS SHALL BE USED IN EXPOSED LOCATIONS. ALL CABLES MUST BE PROPERLY SUPPORTED.
- RACEWAYS SHALL NOT BE RUN ON THE EXTERIOR OF BUILDING, OR IN INTERIOR EXPOSED AREAS OF MAIN FLOOR.
- ALL WALLS AND PENETRATIONS SHALL BE REPAIRED AND SEALED, SEE ARCHITECTURAL FOR WALL CONSTRUCTION.
- ALL PENETRATIONS IN DRYWALL ABOVE ACOUSTICAL TILE CEILING ARE TO BE SEALED.
- PROVIDE LABELS ON ALL PANELS, DISCONNECTS, WALL MOUNTED DEVICES AND LEGEND CARDS IN POWER PANELS. LABELS SHALL CONTAIN LOAD AND LOCATION OR PANEL AND CIRCUIT ORIGIN ON FIELD DEVICES BOXES OR COVER PLATES.
- ALL JUNCTION BOXES SHALL BE STEEL.



ADA IMPROVEMENTS
TO HEADHOUSE &
GREENHOUSES AT
FIVE HIGH SCHOOLS

Buncombe County, NC

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FLAT IRON BUILDING SUITE 706
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