

Drawing File: H:\2025\Flat Branch Pres\DWG\FLAT BRANCH-RESTROOM-11\MAR26.dwg
 Plotted by: MarkW
 Plotted Date: May 06, 2026 -- 2:46pm

SHEET INDEX:

- CS COVER SHEET and INDEX TO DRAWINGS
- BCS BUILDING CODE SUMMARY
- SP1 SITE PLAN
- LS1 LIFE SAFETY – EGRESS PLAN
- G1 EXISTING/DEMOLITION FLOOR/REFLECTED CEILING PLAN
- G2 FLOOR – REFLECTED CEILING PLAN
- G3 ROOM/DOOR SCHEDULES – WALL SECTIONS
- G4 RESTROOM ADA ACCESSORIES & DETAILS
- M1 HVAC NOTES/SCHEDULE – FLOOR PLAN
- E1 SCHED/LEGEND/NOTES/RISER/PANEL
- E2 ELECTRICAL – POWER/LIGHTING PLAN
- E3 ELECTRICAL – EXISTING/NEW POWER PLAN
- P1 PLUMBING SCHEDULES/NOTES/RISER/FLOOR PLAN
- P2 PLUMBING – BUILDING SANITARY/WATER

BUILDING DEPARTMENT:

HARNETT COUNTY
 INSPECTION DEPARTMENT
 Administration Offices
 108 E. Front Street
 Lillington, North Carolina 27546
 Phone – 910-893-7525

PROJECT DESIGNER:

JENKINS CONSULTING ENGINEERS, PA
 OFFICE in EUREKA SPRINGS, NC
 BUDDY JENKINS, PE
 1606 MCARTHUR ROAD
 FAYETTEVILLE, NC 28311-1002
 910-822-1724

PROJECT:



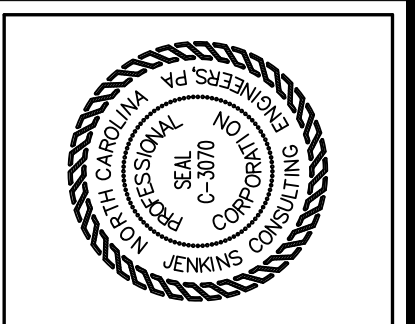
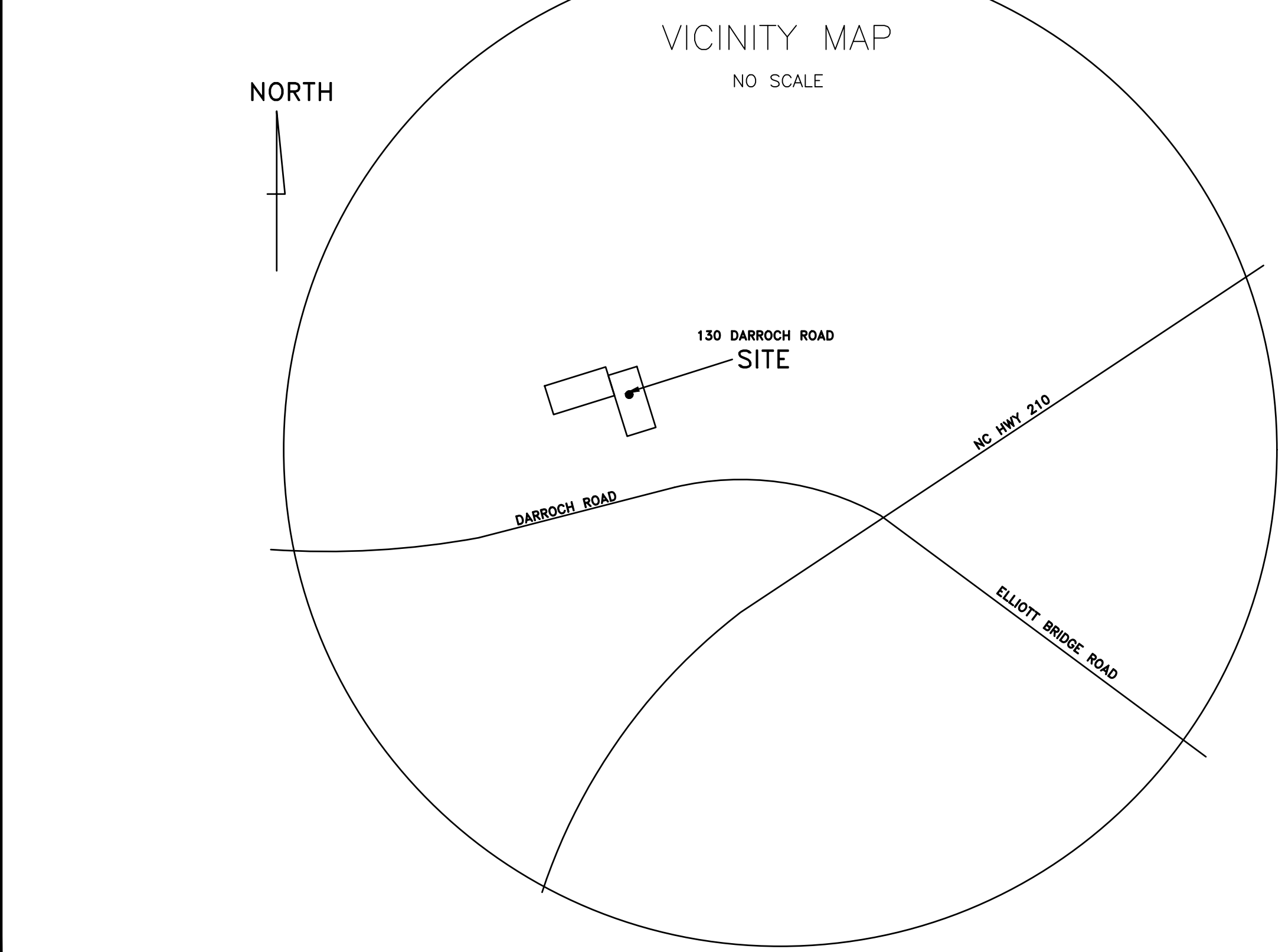
LEVEL II ALTERATION For:
FLAT BRANCH PRES CHURCH
(RESTROOM RENOVATION)

103 DARROCH ROAD
 BUNNLEVEL, NC. 28323

CODE REVIEW:

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 2018 NORTH CAROLINA STATE BUILDING CODE EXISTING BUILDING CODE
 2018 NORTH CAROLINA STATE BUILDING CODE for BUILDING
 2018 NORTH CAROLINA STATE BUILDING CODE for PLUMBING
 2018 NORTH CAROLINA STATE BUILDING CODE for MECHANICAL
 2020 NATIONAL ELECTRICAL CODE
 2009 STANDARD & COMMENTARY ICC/ANSI A117.1-2009 on ACCESSIBILITY
 2018 NORTH CAROLINA STATE BUILDING CODE for ENERGY
 2018 NORTH CAROLINA STATE BUILDING CODE for FIRE PREVENTION
 THE 2018 EDITION OF THE LIFE SAFETY CODE NFPA 101
 BUILDING DATA:
 THE PROJECT IS TO RENOVATE A VACANT SPACE FOR BUSINESS USE.

VICINITY PLAN



JENKINS
 CONSULTING ENGINEERS, PA
 OFFICE in EUREKA SPRINGS, NORTH CAROLINA
 1606 MCARTHUR RD. FAYETTEVILLE, NC 28311-1002
 CORPORATION NUMBER C-3070 Buddy@jenkinspe.com
 910.822.1724



28 April 2026
 DESIGNED/CHECKED BY: KD
 DRAWN BY: MAW
 JCE PROJECT#: 2026-01-06
 DATE: 28 APR 26

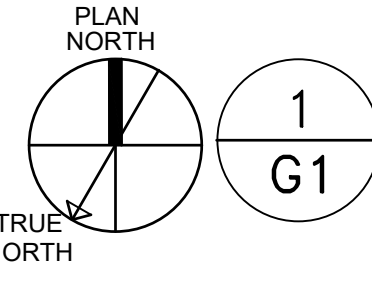
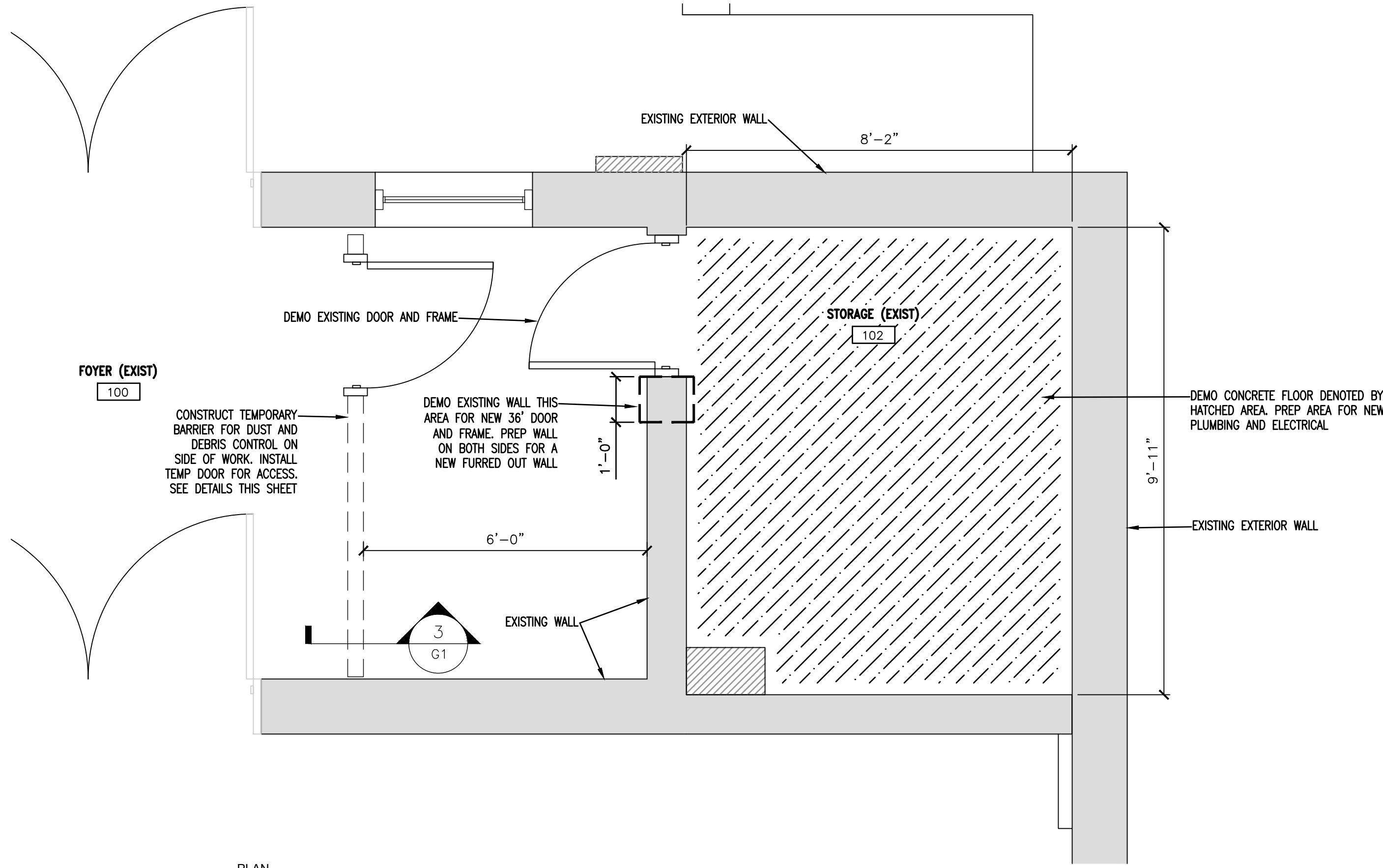
FINAL DRAWING FOR REVIEW PURPOSES ONLY
 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION
 OWNER/TENANT:
 CONTRACTOR/BUILDER:

PROJECT: **FLAT BRANCH RESTROOM RENOVATION**
 BUNNLEVEL, NC 28323
 SHEET: **COVER SHEET & INDEX TO DRAWINGS**

CS

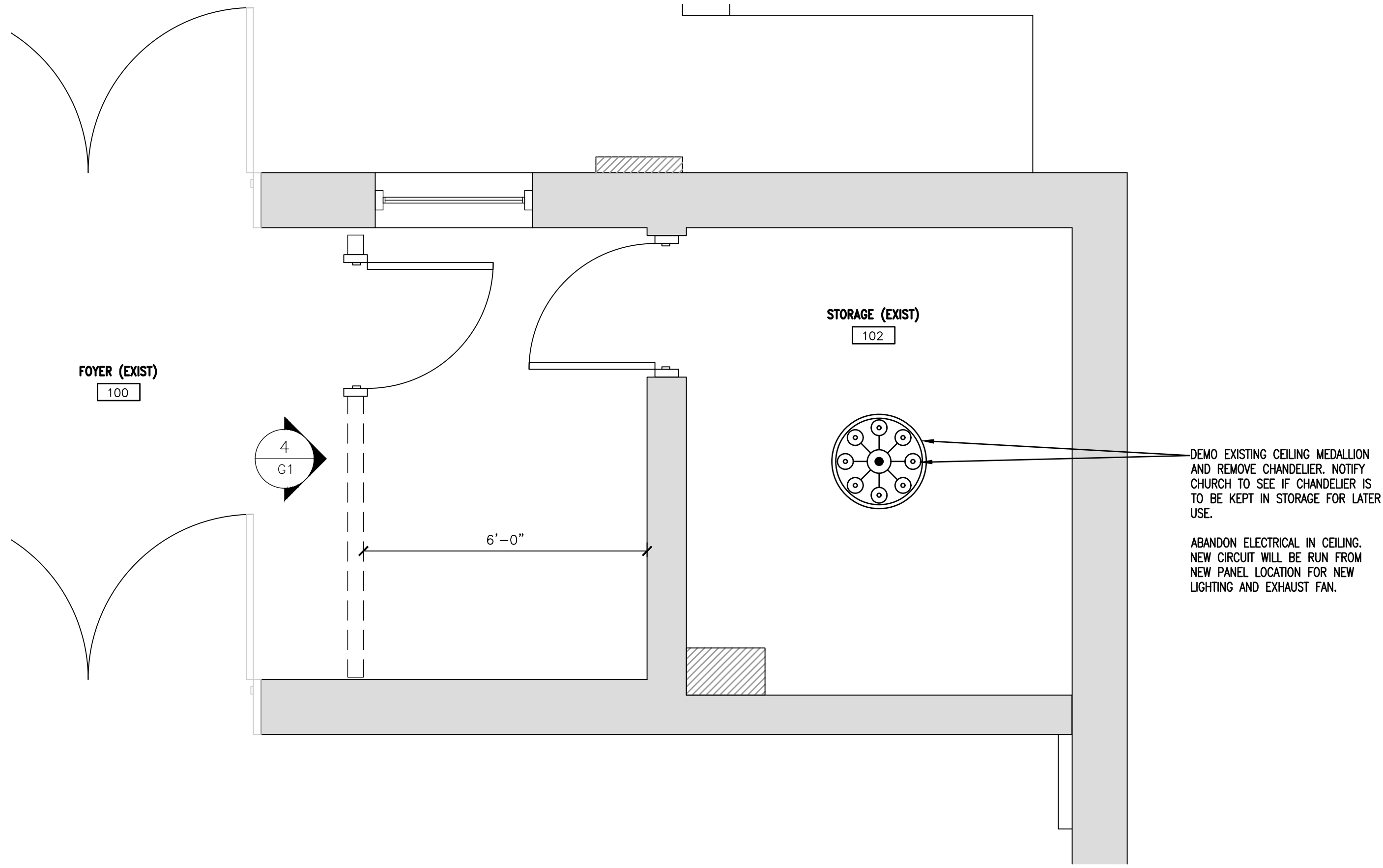
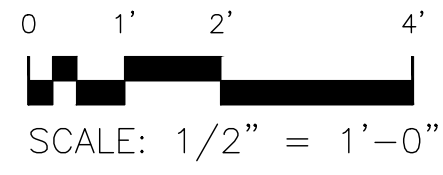
D:\projects\2025\Flat Branch Pres\DWG\FLAT BRANCH-RESTROOM-11MAR26.dwg
 Plotted by: MarkW
 Plotted Date: Apr 28, 2026 - 11:24am

1"=4"
 2'-0" = 1'-0"
 4" = 1'-1/2"
 8" = 1'-0"
 1'-0" = 1'-0"
 2'-8" = 1'-0"
 3'-4" = 1'-0"
 4" = 1'-0"
 1'-2" = 1'-0"
 8" = 1'-0"
 0 1' 2'
 1'-4" = 1'-0"
 2' 4" = 1'-0"
 4' = 1'-0"



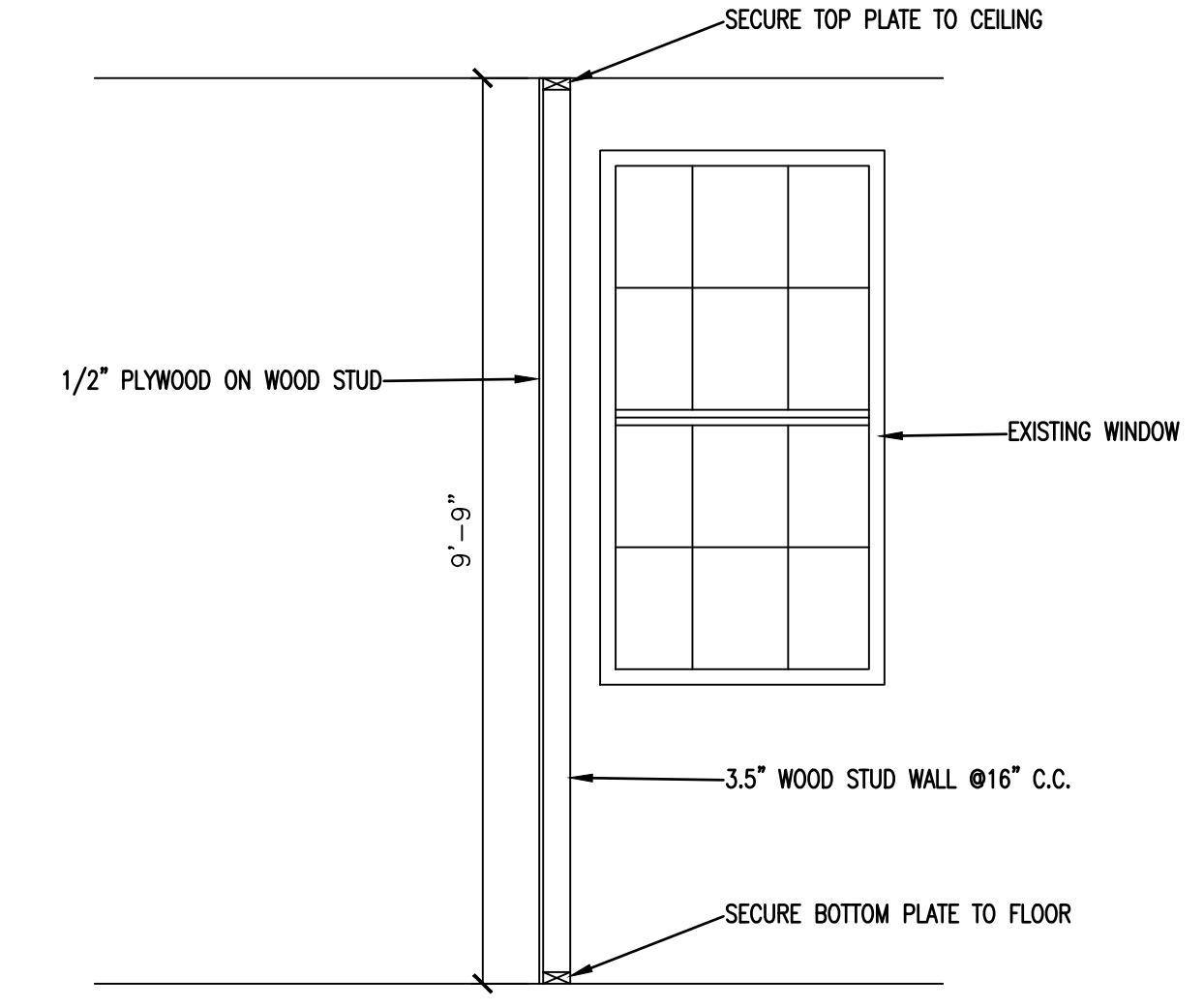
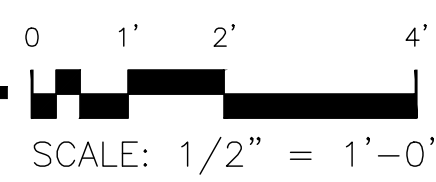
G1

EXIST./DEMO. FLOOR PLAN



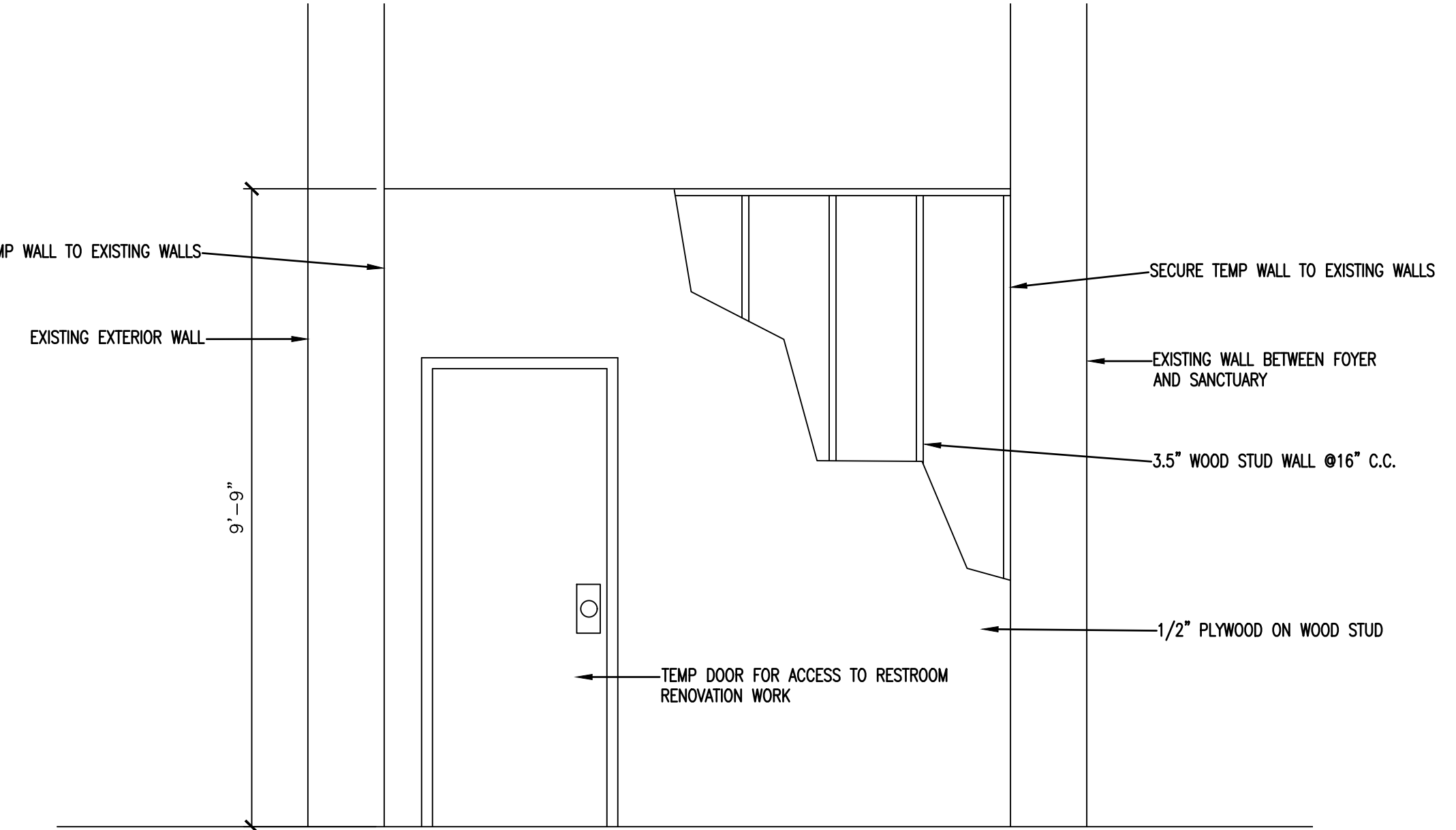
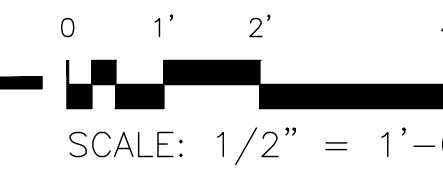
G1

EXIST./DEMO. REFLECTED CEILING PLAN



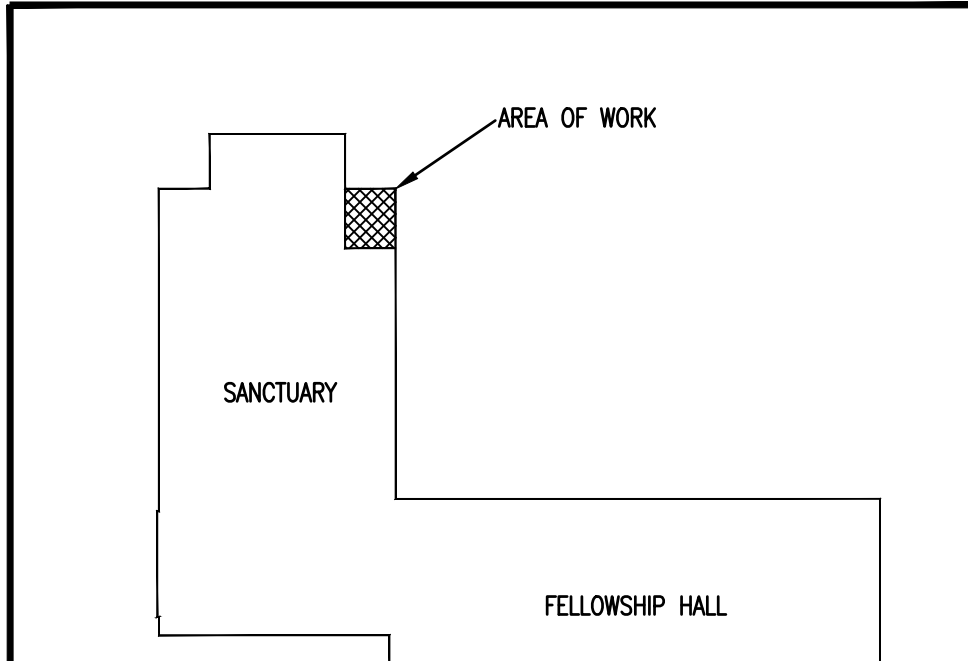
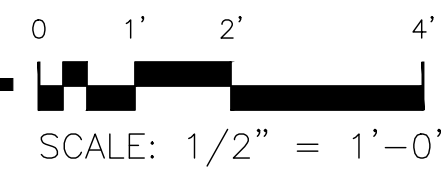
G1

TEMP WALL SECTION



G1

TEMP WALL ELEVATION



G1

BUILDING KEY PLAN



28 April 2026

DESIGNED/CHECKED BY: KD
 DRAWN BY: MAW
 JCE PROJECT#: 2026-01-06
 DATE: 28 APR 26

FINAL DRAWING FOR REVIEW PURPOSES ONLY
 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION
 OWNER/TENANT:
 CONTRACTOR/BUILDER:

PROJECT: FLAT BRANCH RESTROOM RENOVATION
 130 DARROCH RD.
 BUNNLEVEL, NC 28323
 SHEET: EXIST./DEMO. FLOOR/REFLECTED CEILING PLAN

G1

Drawing File: H:\2025\Flat Branch Pres DWG\FLAT BRANCH-RESTROOMEDD-11MAR26.dwg
 Plotted by: MarkW
 Plotted Date: Apr 28, 2026 - 11:25am

GENERAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA MECHANICAL CODE 2018 EDITION, ASHRAE, SMACNA, AND NFPA. STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK, PIPING, AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICT.

THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE.

ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

- STORM AND SANITARY SEWER LINES
- DUCTWORK AND HVAC SYSTEMS
- HOT AND COLD WATER LINES
- RIGID CONDUIT
- CABLE

THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS (PERTAINING TO HIS WORK) THROUGH THE ROOF, WALLS, FLOORS WITH THE GENERAL CONTRACTOR. ANY WATERPROOFING AROUND THE OPENINGS TO BE COMPLETED BY THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS PRIOR TO INSTALLATION. ALL PLATFORMS AND WALKWAYS IN ATTIC SPACES ARE PROVIDED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION AND DIMENSIONS OF ALL PLATFORMS IN THE ATTIC WITH THE GENERAL CONTRACTOR.

ALL EQUIPMENT HAVING ROTATING OR MOVING PARTS SHALL HAVE VIBRATION ISOLATORS TO ELIMINATE TRANSMISSION OF OBJECTIONABLE NOISE TO OTHER MATERIAL OR EQUIPMENT.

WHERE OUTSIDE AIR INTAKE DUCTWORK CONNECTS TO OUTSIDE AIR LOUVER, THE INSIDE FACE OF THE DUCTWORK SHALL BE PRIMED AND PAINTED WITH (2) TWO COATS OF FLAT BLACK TO PREVENT DUCTWORK FROM BEING VISIBLE

THE MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

THE MECHANICAL CONTRACTOR SHALL CLEAN ALL OF HIS EQUIPMENT PRIOR TO FINAL CLOSE OUT OF THIS PROJECT TO BE FREE OF ANY DIRT OR DEBRIS IN DRAIN PANS, CONDENSATE DRAINS, CONDENSING UNIT COILS, AND ETC.

ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.

PROVIDE EQUIPMENT SUPPORT PAD FOR ALL BASE MOUNTED EQUIPMENT. PAD SHALL BE 4" HIGH OR PREFABRICATED CONCRETE PAD FOR ALL CONDENSING UNITS, AND PACKAGE UNITS, 4" MINIMUM FROM EQUIPMENT EDGE TO END OF PAD ON ALL SIDES.

THE MECHANICAL CONTRACTOR SHALL CONFIRM ALL BREAKER AND DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT FOR THIS PROJECT.

CONDENSATE DRAINS SHALL BE A MINIMUM OF 3/4" Ø PVC PIPE. A P-TRAP SHALL BE INSTALLED IN PIPE AT THE UNIT. ALL CONDENSATE LINES SHALL BE ROUTED AS INDICATED ON PLANS.

INSTALL FLEXIBLE DUCT CONNECTION AT SUPPLY AND RETURN DUCTWORK CONNECTIONS TO ALL AIR HANDLING UNITS, FAN BOXES, ETC.

DUCTWORK NOTES:

ALL DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE SUPPORTED FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF.

ALL DUCT LAYOUT AND LOCATIONS ARE SHOWN DIAGRAMMATIC. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE BUILDING CONDITIONS AND COORDINATE THE DUCT LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

ALL DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED.

VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. TURNING VANES ARE REQUIRED IN ALL ELBOWS AND AIR DEFLECTION DEVICES WILL BE INSTALLED WHERE REQUIRED FOR A BALANCED SYSTEM. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THRU WALLS.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW AND SEALED WITH DUCT SEALER. ALL TAPES AND MASTICS USED SHALL LISTED WITH UL181A AND SHALL BE MARKED. (NCCMC (603.9) & NCECC (C403.2.9))

FLEXIBLE DUCT RUNS SHALL NOT EXCEED 12'-0" IN LENGTH. FLEXIBLE DUCT SHALL BE SUPPORTED EVERY 5'-0". MAXIMUM SAG IS A 1/2 INCH PER FOOT OF SPACING BETWEEN SUPPORTS. SADDLE MATERIAL IN CONTACT WITH THE FLEXIBLE DUCT SHALL BE WIDE ENOUGH SO THAT IT DOES NOT REDUCE THE INTERNAL DIAMETER OF THE DUCT. THE SADDLE MUST COVER ONE-HALF THE CIRCUMFERENCE OF THE OUTSIDE DIAMETER OF THE FLEXIBLE DUCT AND FIT NEATLY AROUND THE LOWER HALF OF THE DUCT'S OUTER CIRCUMFERENCE.

PROVIDE PERMANENT MANUAL DAMPERS IN ALL SUPPLY AND RETURN AIR DUCTS AT THE MAIN TRUNK LINE FOR SYSTEM BALANCING. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING THE AIR DISTRIBUTION SYSTEM AFTER THE SYSTEM HAS BEEN INSTALLED AND EQUIPMENT IS OPERATING. MANUAL DAMPERS ARE REQUIRED TO BE INSTALLED IN THE RETURN AIR DUCT IF THE DUCT IS RETURNING AIR FROM INDIVIDUAL ROOMS. MANUAL DAMPERS ARE NOT REQUIRED IF THE DUCT IS RETURNING AIR FROM CENTRALLY LOCATED FILTER/RETURN GRILLES.

THE OUTSIDE AIR INTAKE DUCTWORK SHALL BE HARD ROUND DUCT, FLEXIBLE DUCT WILL NOT BE ACCEPTED. SEE PLAN FOR DUCT SIZE.

ALL OUTSIDE AIR INTAKE DUCTS SHALL HAVE A FILTER BOX TO HOUSE A MINIMUM OF 16 IN. X 20 IN. X 2 IN. THICK FILTER, U.I.N.O. AT EACH AIR HANDLING UNIT EITHER IN THE ATTIC OR CRAWL SPACE. THE FILTER BOX SHALL HAVE A HINGED DOOR THAT IS GASKETED TO MAINTAIN AN AIRTIGHT SEAL WITH A THUMBSCREW TO ACCESS THE FILTER.

THE OUTSIDE AIR FILTER SHALL BE THE HI-E 40 AS MANUFACTURED BY PURULATOR PRODUCTS AIR FILTRATION COMPANY, OR APPROVED EQUAL. AIR FILTER SHALL BE (2) TWO INCHES DEEP, MEDIUM EFFICIENCY, PLEATED MEDIA, DISPOSABLE PANEL TYPE. THE FILTER MEDIA SHALL BE SELF-EXTINGUISHING NON-WOVEN COTTON AND SYNTHETIC FIBERS. THE FILTER MEDIA SHALL BE BONDED TO A 28-GAUGE CORROSION RESISTANT, EXPANDED METAL SUPPORT GRID WITH A 95% OPEN FACE AREA.

DUCT/PIPING INSULATION NOTES:

ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS NOTED OTHERWISE IN THE DRAWING. NCECC (C403.2.9) ACCEPTABLE MANUFACTURERS ARE JOHNSON MANVILLE.

LIQUID AND SUCTION PIPING TO AND FROM AIR HANDLING UNITS SHALL BE INSULATED WITH 1-1/2" THICK PIPE INSULATION IN ACCORDANCE WITH NCECC TABLE (C403.2.10).

ALL FLEXIBLE DUCT REQUIRING INSULATION SHALL HAVE A VALUE OF AT LEAST R-5.0. THE FLEXIBLE DUCT SHALL BE ATCO RUBBER PRODUCTS, INC. UPC NO. 036 OR APPROVED EQUAL WITH A REINFORCED METALLIZED POLYESTER JACKET. THE INNER CORE IS AIRTIGHT AND IS DESIGNED FOR LOW TO MEDIUM OPERATING PRESSURES IN HVAC SYSTEMS. AIR DUCT CONNECTIONS AND JOINTS SHALL BE MADE PER INSTALLATION INSTRUCTIONS OUTLINED BY ATCO.

OUTSIDE AIR INTAKE DUCTWORK AND EXHAUST DUCTWORK IS TO BE UNINSULATED.

NEW MINI-SPLIT OUTDOOR UNIT SCHEDULE

EQUIPMENT INFO			COOLING CAPACITIES				HEATING CAPACITIES			COMPRESSOR/CONDENSER SECTION				ELECTRICAL INFORMATION				MISCELLANEOUS INFORMATION			
TAG	TYPE	LOCATION	NOM. TONS	TOTAL COOLING	MIN. EER	MIN. SEER	MIN. COP	UNIT CAPACITY	MIN. HSPF	NO. OF COMPR.	COMPRESSOR AMPS RLA	CONDENSER FAN AMPS FLA	NO. OF FANS	UNIT VOLTS	UNIT PHASE	MCA	MOCF	WIRE SIZE (CU. 75 C)	MANUFACTURER/MODEL	UNIT SIZE (H)(W)(D)	UNIT WEIGHT
OU-1	MINI-SPLIT OUTDOOR UNIT	GROUND	0.5	6,000	21.45	35	4.88	9,000	13	1	9.2	0.5	1	208/230	1	12	20	#12	MITSUBISHI - MUZ-FX06NLHZ	31Wx11Dx28H	89 LBS

NEW MINI-SPLIT INDOOR UNIT SCHEDULE

EQUIPMENT INFO			INDOOR FAN SECTION				ELECTRICAL INFORMATION				MISCELLANEOUS INFORMATION			
TAG	TYPE	LOCATION	NOM. TONS	SUPPLY CFM	FAN TYPE	FAN FLA	UNIT VOLTS	UNIT PHASE	MCA	MOCF	WIRE SIZE (DU. 75 C)	MANUFACTURER/MODEL	UNIT SIZE (H)(W)(D)	UNIT WEIGHT
IU-1	MINI-SPLIT INDOOR UNIT	WALL MOUNTED	0.5	200	DC MOTOR	0.65	208/230	1	1	15	#14	MITSUBISHI - MSZ-FX06NL	39Wx9Dx12H	31 LBS

EXHAUST FAN SCHEDULE

EQUIPMENT INFO			FAN INFORMATION				ELECTRICAL INFORMATION						MFG & MODEL	REMARKS				
TAG	TYPE	LOCATION	EXHAUST CFM	MAKEUP CFM	ESP IN WG	FAN DRIVE	SONES	RPM	FAN FLA	FAN HP	FAN WATT	UNIT VOLTS	UNIT PHASE	MOCF	MCA	WIRE SIZE (DU. 75 C)	MFG & MODEL	REMARKS
EF-1	TOILET EXHAUST	CEILING	75		0.125	DIRECT	2.0	950	-	-	54	120	1	-	-	#12	GREENHECK / SP-B70-QD OR EQUAL	

DESCRIPTION AND SEQUENCE OF OPERATION OF HVAC SYSTEM

THE HVAC SYSTEM CONSISTS OF:

(1) 0.5 TON MINI-SPLIT SYSTEM WHICH PROVIDE CONSTANT VOLUME HEATING/COOLING TO ALL SPACES.

OCCUPIED OPERATION

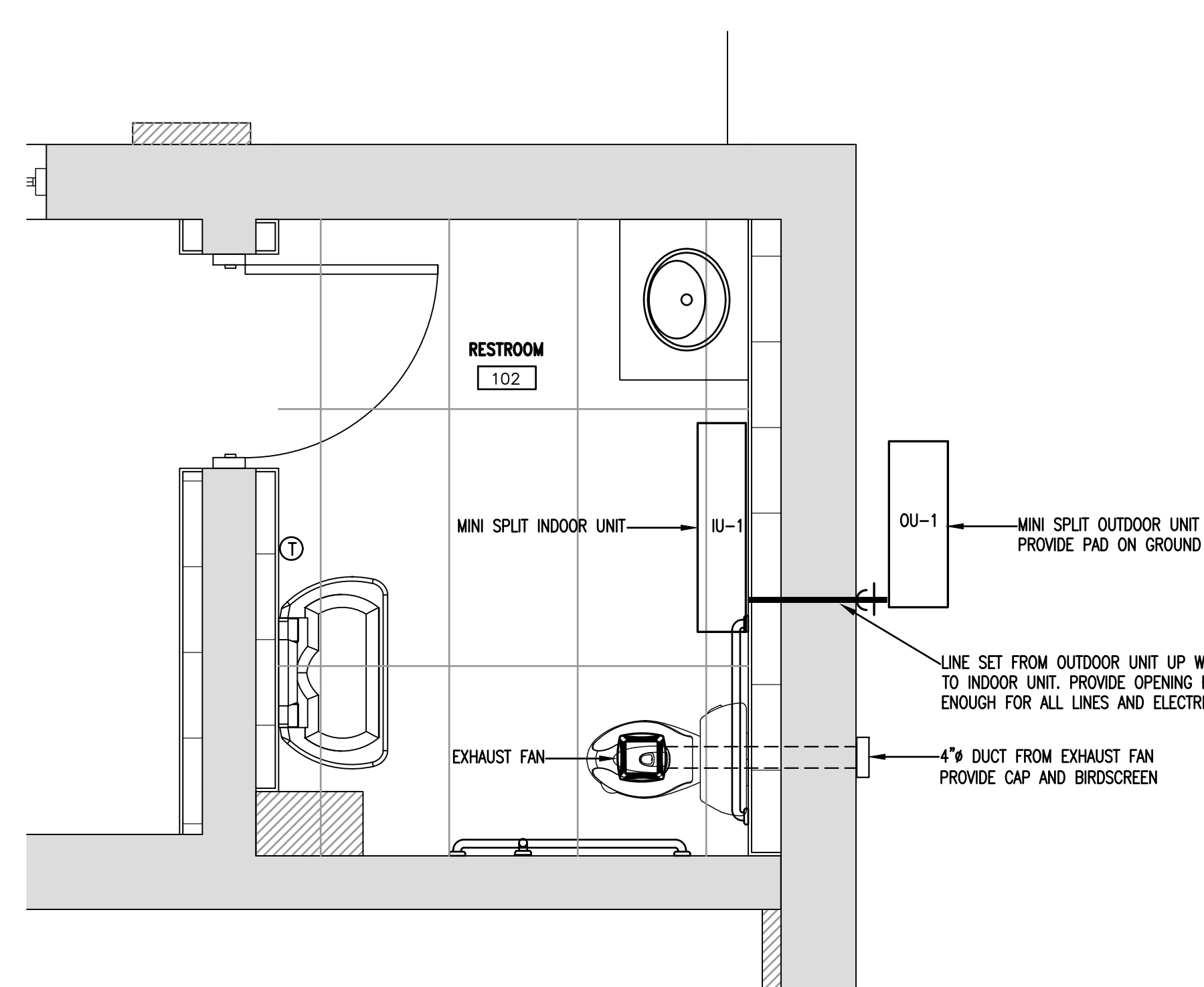
IN THE COOLING MODE, A RISE IN TEMPERATURE BEYOND SET POINT OF PROGRAMMABLE T-STAT WILL RESULT IN ACTIVATION OF THE COOLING CYCLE UNTIL DESIRED TEMPERATURE IS REACHED. IN HEATING MODE, A SIGNAL FROM T-STAT WILL ACTIVATE THE UNIT TO DELIVER HEATING TO THE SPACE.

UNOCCUPIED OPERATION

THE TEMPERATURE WILL BE SET SO THAT THE SPACE WILL NOT FALL BELOW 55° OR REACH ABOVE 78°. PROGRAMMABLE THERMOSTAT SHALL PROVIDE CONTROL OF EACH UNIT.

EXHAUST FAN OPERATION

THE RESTROOM EXHAUST FAN EF-1 SHALL BE SWITCHED WITH LIGHTING FOR TOILET.



PLAN NORTH
TRUE NORTH

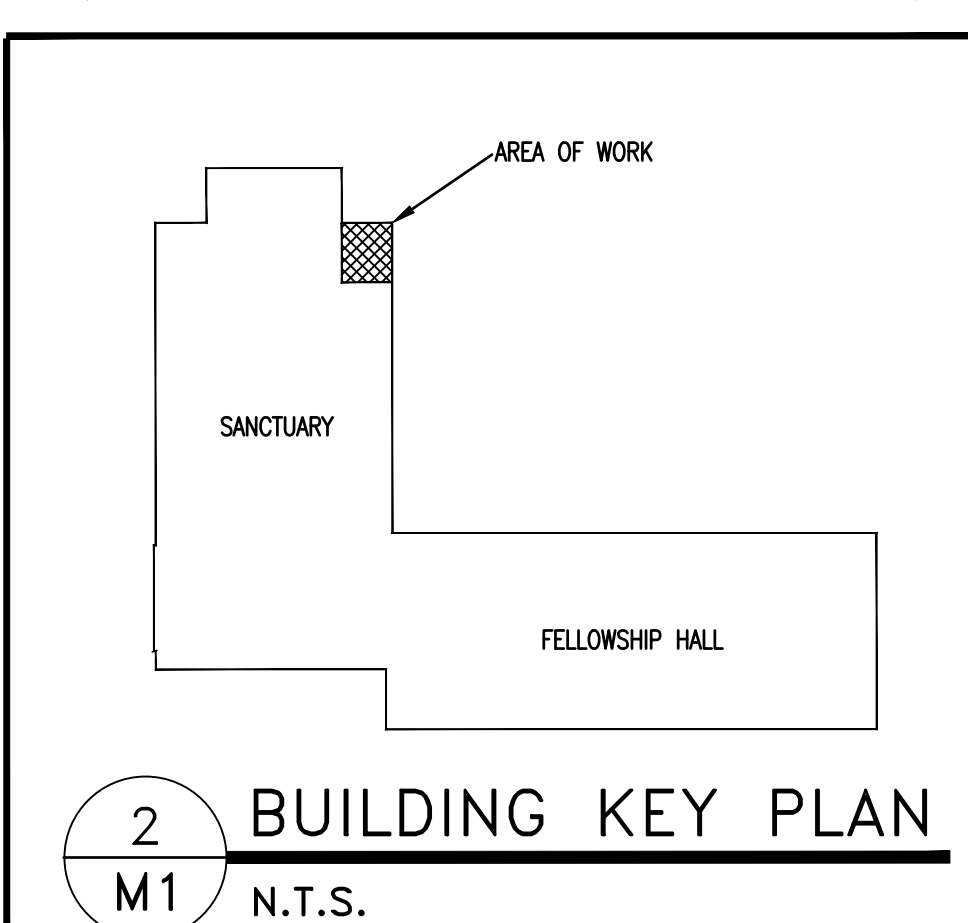
1 HVAC FLOOR PLAN

SCALE: 1/2" = 1'-0"

IT IS THE PURPOSE OF THESE DRAWINGS TO SHOW THE INTENT OF THIS SYSTEM DESIGN. EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW EXISTING CONDITIONS- ANY DEVIATION TO THESE DRAWINGS UNCOVERED DURING NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR OR ENGINEER BEFORE ALTERING THIS DESIGN.

MECHANICAL SCOPE OF WORK:

RESTROOM RENOVATION HAS ONE (1) NEW 0.5 TON MINI SPLIT SYSTEM INSTALLED. IT WILL PROVIDE HEATING AND COOLING TO ONLY THE RESTROOM. THE EXHAUST FAN WILL EXHAUST AIR OUT WHEN THE RESTROOM IS IN USE.



BUDDY JENKINS
CONSULTING ENGINEERS, P.A.
OFFICE IN BUREAU SPRINGS, NC
1608 HARTWELL RD., FAYETTEVILLE, NC 28115-1002
CORPORATION NUMBER C-3070 Buddy@jenkinspa.com
910.622.1724

28 April 2026

DESIGNED/CHECKED BY: BJ	DRAWN BY: MAW
JCE PROJECT#: 2026-01-06	DATE: 28 APR 26
FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY	CONTRACTOR/BUILDER:
PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY	
FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION	
OWNER/TENANT:	

PROJECT: **FLAT BRANCH PRESBYTERIAN ADDITION**
BUNNLEVEL, NC 28323

SHEET: **130 DARROCH RD.**

HVAC NOTES/SCHEDULES - FLOOR PLAN

M1

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	FIXTURE MOUNTING	ACCESSORIES	SUPPLY	GAS	WASTE	VENT	ELECTRICAL	REMARKS
P1	AMERICAN STANDARD	CADET ADA/ 215AA.104	ELONGATED BOWL; FLUSH TANK TOILET	FLOOR MOUNTED	SEAT: AMERICAN STANDARD / 5901.100	3/4" C.W.		3"	2"		①②⑦⑧⑨⑫⑰
P2	AMERICAN STANDARD	RELIANT/0475247.020	LAVATORY	DROP IN SINK	DELTA 87T905 METERED FAUCET	1/2" C.W. /H.W.		2"	1-1/2"		①②③④⑤⑨⑩⑪⑱
P3	CHRONOMITE	SR-15L/120	INSTANT ELECTRIC WATER HEATER	UNDER SINK		3/8" C.W./H.W.				120V 1800 W	

- ① HANDICAPPED ④ SINGLE LIFT MIXING FAUCET ⑦ 16-1/2" HIGH BOWL ⑩ MOUNT BOTTOM OF APRON @ 29" A.F.F. ⑬ HEAT TAPE ⑯ HEAT TAPE
- ② VITREOUS CHINA ⑤ VINYL COVERED INSULATION FOR WASTE/WATER PIPING ⑧ 1.28 GALLONS PER FLUSH ⑪ CHROME FAUCET FINISH ⑭ WEATHERPROOF GFI RECEPTACLE IN COVER ⑰ WEATHERPROOF GFI RECEPTACLE IN COVER
- ③ 4 INCH CENTER ⑥ FLUSHING RIM ⑨ WHITE FINISH ⑫ STRAINER ⑮ BRONZE 2-PIECE BALL VALVE ⑱ BRONZE 2-PIECE BALL VALVE
- ⑲ 2 GALLON EXPANSION TANK ⑳ NON-TRAFFIC RATED ㉑ PORCELAIN COATED INTERIOR ㉒ PROVIDE FLUSH HANDLE ON ACCESSIBLE SIDE OF TOILET

IT IS THE PURPOSE OF THESE DRAWINGS TO SHOW THE INTENT OF THIS SYSTEM DESIGN. EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW EXISTING CONDITIONS- ANY DEVIATION TO THESE DRAWINGS UNCOVERED DURING NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR OR ENGINEER BEFORE ALTERING THIS DESIGN.

PLUMBING SCOPE OF WORK:
 INSTALLING NEW RESTROOM WITH ASSOCIATED LAVATORY AND TOILET. WILL BE CONNECTING TO EXISTING SANITARY/SEPTIC SERVICE AT REAR OF CHURCH AND EXISTING WATER SERVICE. CONTRACTOR WILL USE BEST PRACTICE FOR ROUTING OF NEW WATER AND SANITARY SERVICE.

PLUMBING GENERAL NOTES:

PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE EDITION AND LOCAL CODES.

ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS. MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8 INCH PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING CONFORMING TO ASTM B-88 WITH SWEAT JOINTS AND WROUGHT OR CAST VALVES AND FITTINGS (UNIONS, STRAINERS, ETC.). JOINT SHALL BE MADE WITH LEAD FREE SOLDER. PEX PIPING MAY BE USED WITH OWNERS APPROVAL.

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE, VENT PIPING, AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DWV PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION, 1/2 INCH THICK ARMSTRONG/ARMAFLEX II ON ALL COLD WATER PIPES. RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARMSTRONG/ARMAKOK II ON ALL HOT WATER PIPING.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE EDITION.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREW.

ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

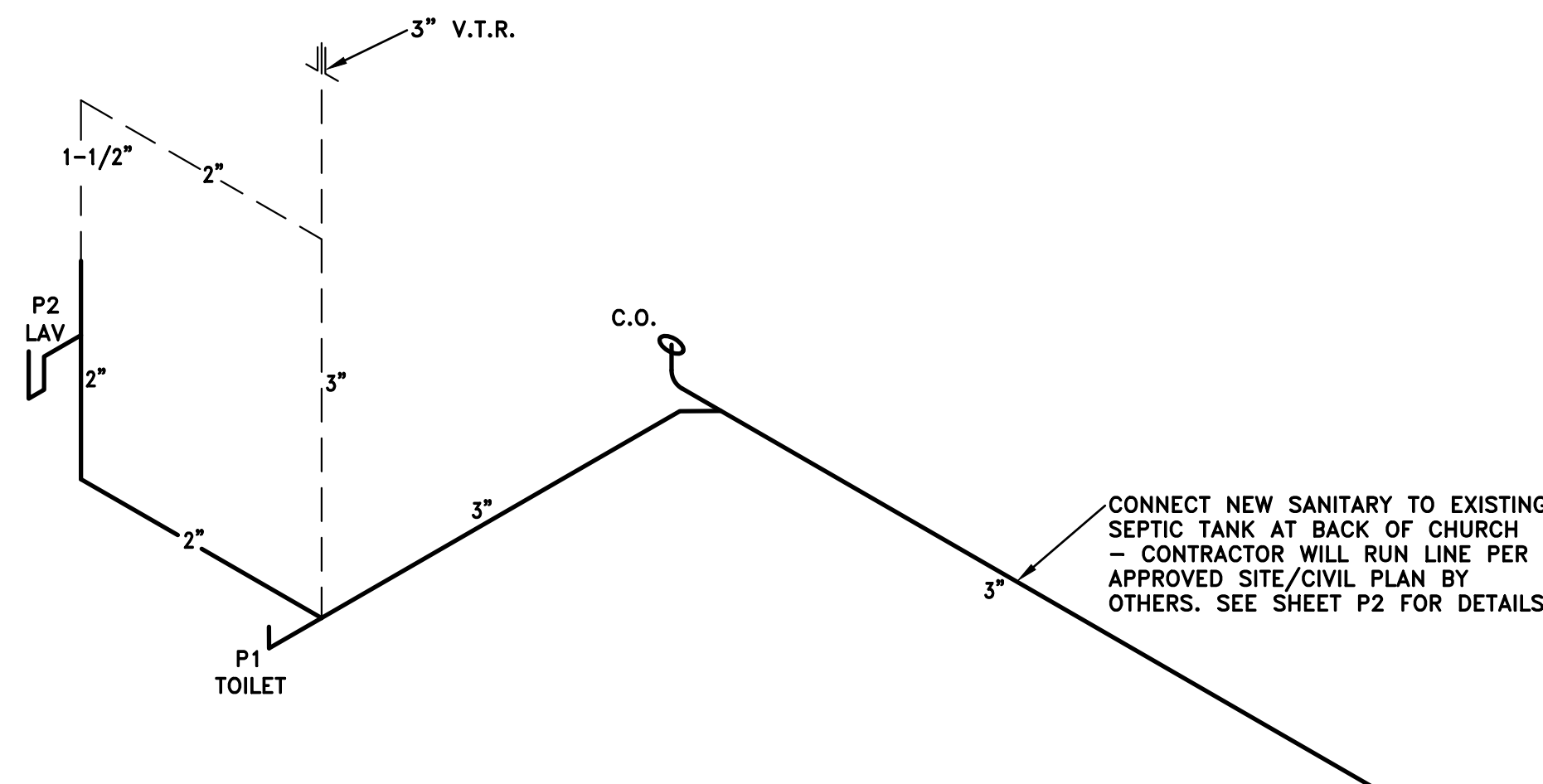
FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 OUNCE COPPER COUNTER FLASHING AND BASE FLASHING, OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

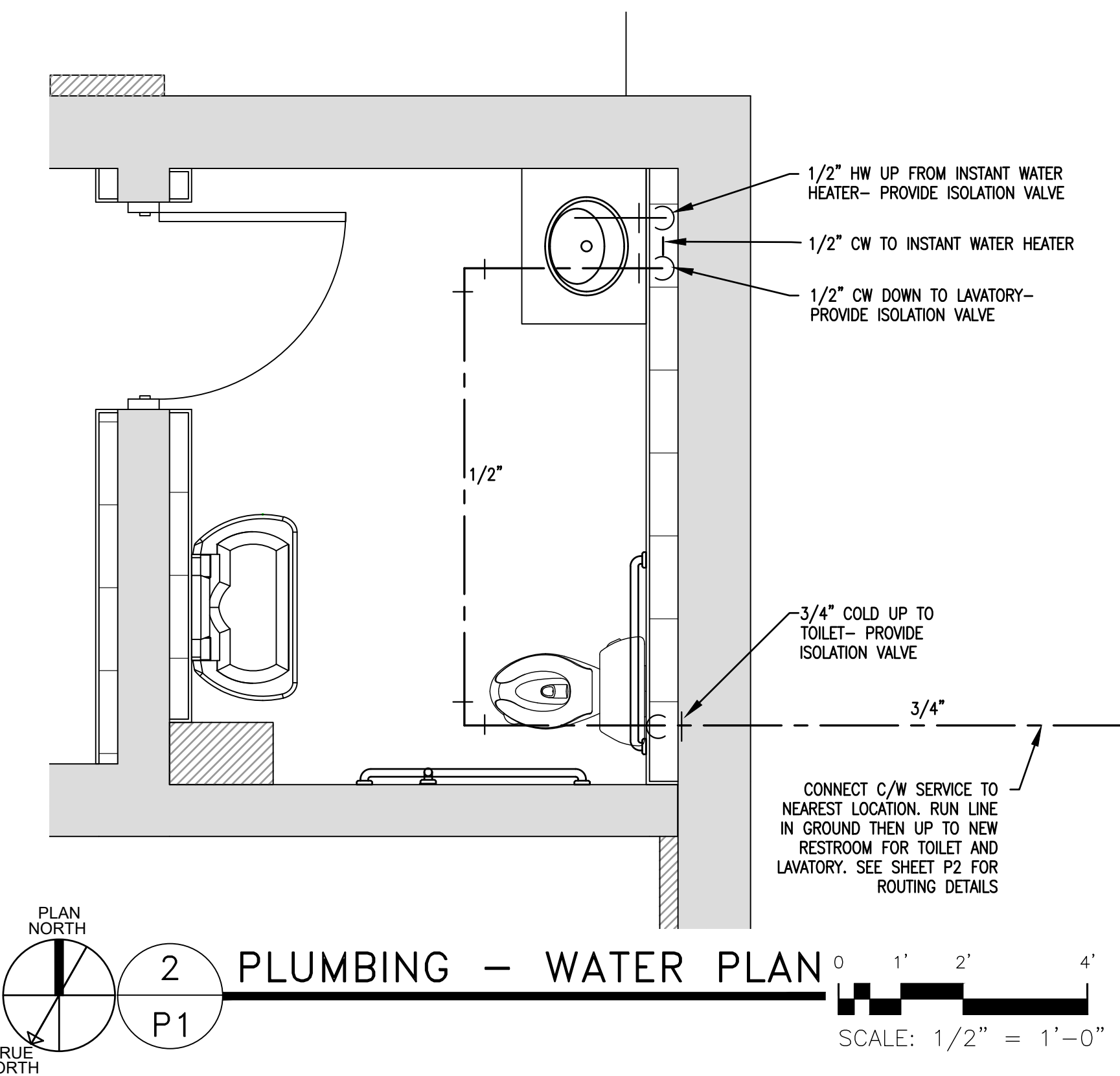
ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

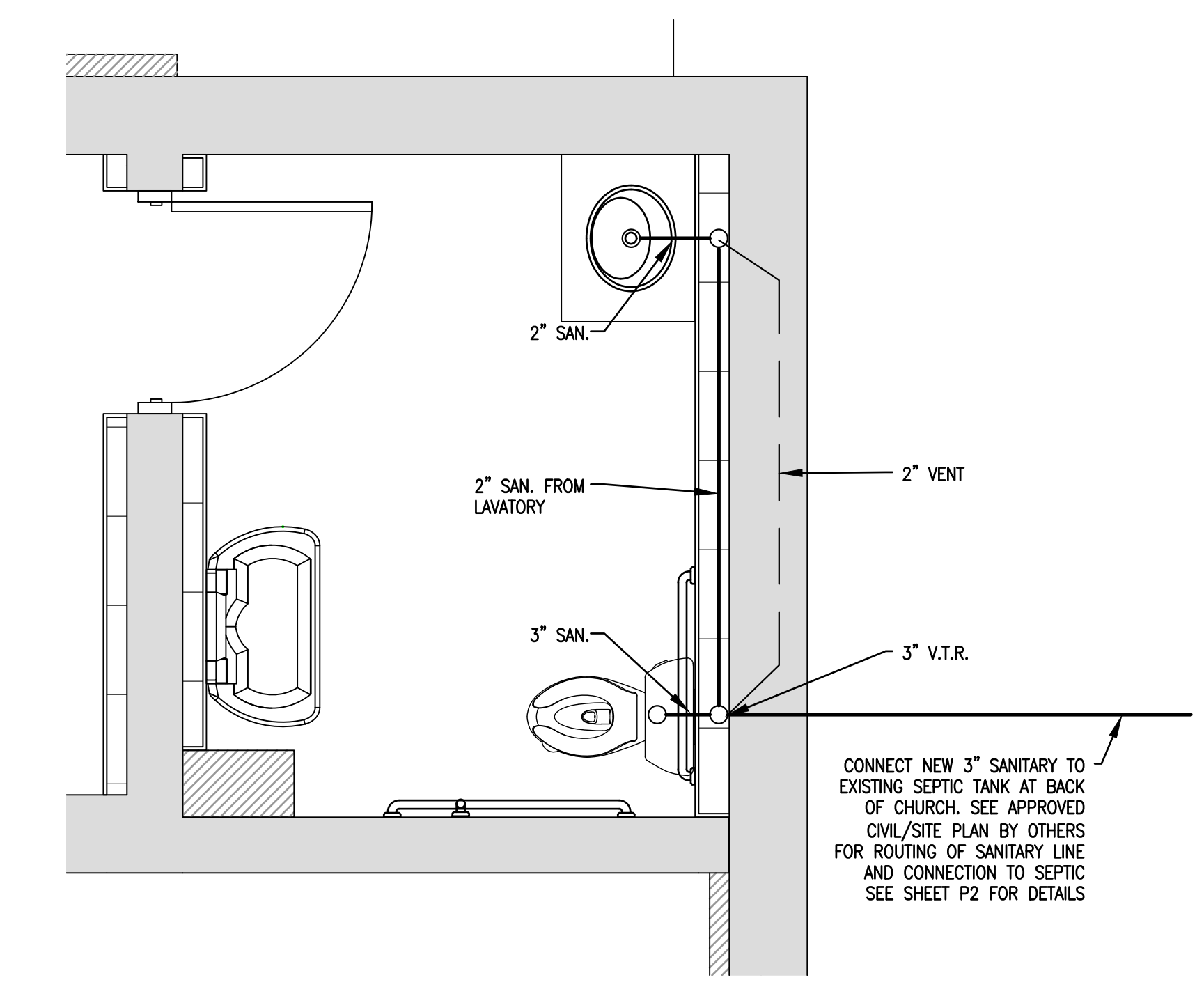
WATER CALCULATIONS				DRAINAGE CALCULATIONS					
QTY.	ITEM	C.W. FIXTURE UNITS	WATER SUPPLY FIXTURE UNITS EACH	WATER SUPPLY FIXTURE UNITS TOTAL	QTY.	ITEM	DRAINAGE FIXTURE UNITS	DRAINAGE FIXTURE UNITS TOTAL	
1	TOILET	5.0	5.0	5.0	1	TOILET	4.0	4.0	
1	LAVATORY	1.5	2.0	2.0	1	LAVATORY	1.0	1.0	
TOTAL WATER SUPPLY FIXTURE UNITS				7.0	TOTAL DRAINAGE FIXTURE UNITS				5.0



1 PLUMBING RISER - SANITARY
 P1 N.T.S.



2 PLUMBING - WATER PLAN
 SCALE: 1/2" = 1'-0"



3 PLUMBING - WASTE PLAN
 SCALE: 1/2" = 1'-0"

Drawing File: H:\2025\Flat Branch Pres\DWG\FLAT BRANCH-RESTROOMEDD-11MAR26.dwg
 Plotted by: MarkW
 Plotted Date: Apr 28, 2026 - 11:31am



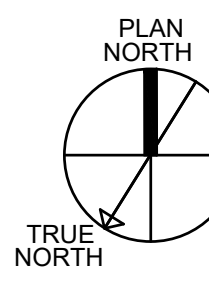
DESIGNED/CHECKED BY: BJ
 DRAWN BY: MAW
 JCE PROJECT#: 2026-01-06
 DATE: 28 APR 26

FINAL DRAWING [] FOR REVIEW PURPOSES ONLY
 PRELIMINARY [] FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING [] FOR CONSTRUCTION

PROJECT: **FLAT BRANCH PRESBYTERIAN ADDITION**
 BUNNLEVEL, NC 28323
 SHEET: **PLUMBING SCHEDULES/NOTES/RISER/PLAN**

P1

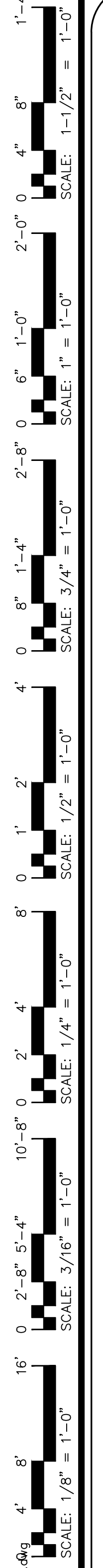
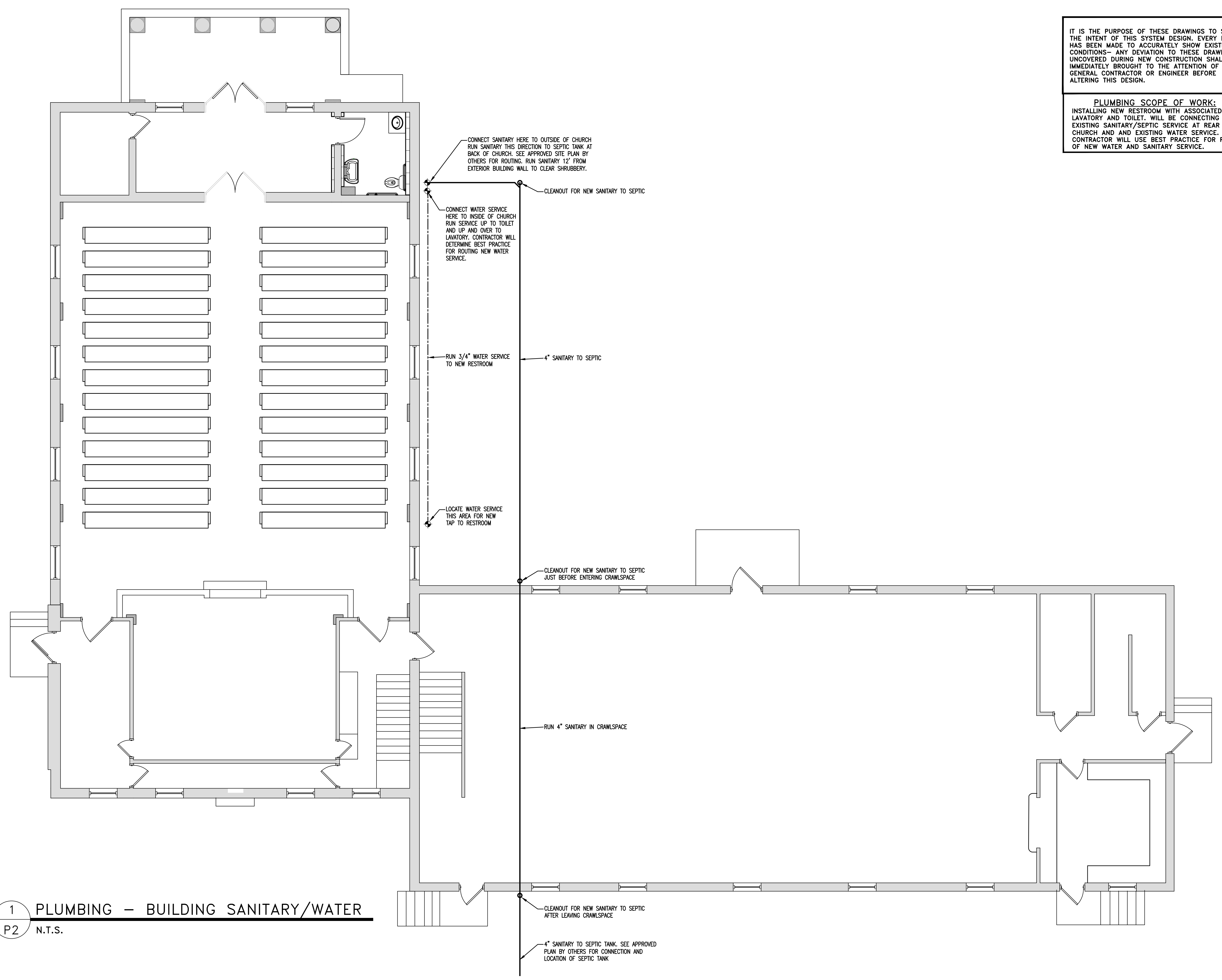
Drawing File: H:\2025\Flat Branch Pres\DWG\FLAT BRANCH-RESTROOMEDD-11MAR26.dwg
 Plotted by: MarkW
 Plotted Date: Apr 28, 2026 - 11:32am



1
P2

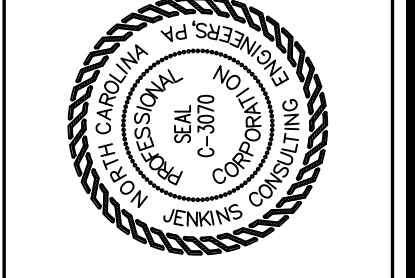
PLUMBING - BUILDING SANITARY/WATER

N.T.S.



IT IS THE PURPOSE OF THESE DRAWINGS TO SHOW THE INTENT OF THIS SYSTEM DESIGN. EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW EXISTING CONDITIONS- ANY DEVIATION TO THESE DRAWINGS UNCOVERED DURING NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR OR ENGINEER BEFORE ALTERING THIS DESIGN.

PLUMBING SCOPE OF WORK:
 INSTALLING NEW RESTROOM WITH ASSOCIATED LAVATORY AND TOILET. WILL BE CONNECTING TO EXISTING SANITARY/SEPTIC SERVICE AT REAR OF CHURCH AND EXISTING WATER SERVICE. CONTRACTOR WILL USE BEST PRACTICE FOR ROUTING OF NEW WATER AND SANITARY SERVICE.



BJ JENKINS
 CONSULTING ENGINEERS, PA.
 OFFICE IN BUREKA SPRING, NC
 1608 MARTIN RD. FAYETTEVILLE, NC 28315-1002
 CORPORATION NUMBER C-3070 Buddy@jenkinspa.com
 910.622.1724



DESIGNED/CHECKED BY: BJ
 DRAWN BY: MAW
 JCE PROJECT#: 2026-01-06
 DATE: 28 APR 26

FINAL DRAWING FOR REVIEW PURPOSES ONLY
 PRELIMINARY FOR DESIGN DEVELOPMENT ONLY
 FINAL DRAWING FOR CONSTRUCTION
 OWNER/TENANT:
 CONTRACTOR/BUILDER:

PROJECT: **FLAT BRANCH PRESBYTERIAN ADDITION**
 BUNNLEVEL, NC 28323
 130 DARROCH RD.
 SHEET: **PLUMBING - BUILDING SANITARY/WATER**

P2