(OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON OR BE SUPPORTED FROM CEILING TILES. NON-CORROSIVE HANGERS SHALL BE PROVIDED IN DAMP

ENVIRONMENTS, SUCH AS PUMP ROOMS AND POOL EQUIPMENT ROOMS. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE

(UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION. A. ALL PIPING, P-TRAPS, AND CONDENSATE DRAINAGE SUBJECT TO FREEZING SHALL BE INSULATED AND HEAT

B. ALL PIPING, P-TRAPS, AND CONDENSATE DRAINAGE SUBJECT TO FREEZING SHALL BE INSTALLED IN A HEATED PLENUM. REFER TO MECHANICAL DRAWINGS.

ALL PLUMBING EQUIPMENT, CONDENSATE DRAINAGE, SANITARY, STORM, AND WATER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE LOCAL AHJ

SANITARY DRAINAGE AND STORM DRAINAGE PIPING SHALL BE SLOPED AS REQUIRED BY CODE. VENT PIPING SHALL BE GRADED BACK TO DRAINAGE PIPE IT SERVES.

TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR

TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. TP "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRED LOCATIONS. TRAP GUARDS COMPLYING TO ASSE 1072, AS MANUFACTURED BY SURSEAL OR EQUAL, MAY BE USED IN LIEU OF TRAP PRIMERS IF ALLOWABLE BY THE AHJ.

PLUMBING PIPING SHALL NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM, ELECTRICAL EQUIPMENT, ETC. PER THE NATIONAL ELECTRICAL CODE ARTICLE 110. 10. ROUTING OF PIPING SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES

DURING THE SUBMITTAL AND LAYOUT PHASE. PIPING SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS

SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS VALVES. WATER HAMMER ARRESTORS, TRAP PRIMERS, STRAINERS, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.

12. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINTS OF ACCESS.

13. ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH ASME A112.18.9 COMPLIANT INSULATION KITS, PLUMBEREX HANDY SHIELD MAXX INSULATION KITS OR EQUAL.

14. PROVIDE ASSE 1010 COMPLIANT WATER HAMMER ARRESTORS SIZED PER PDI STANDARD WH201 ON ALL DOMESTIC WATER SUPPLIES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, ICE MAKER SUPLIES, PRV STATIONS, AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES. PROVIDE ACCESS PANELS AS REQUIRED. AIR CHAMBERS ARE UNACCEPTABLE

PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS. BASE CLEANOUTS ON SOVENT STACKS SHALL BE LOCATED CONCEALED BEHIND THE WATER CLOSET TANK.

16. ALL SHOWER HEAD ARMS AND VALVES SHALL BE PROVIDED WITH ADDITIONAL BLOCKING AS REQUIRED AND RIGIDLY SECURED TO ADJACENT STRUCTURE.

. ALL CLOTHES WASHER BOXES AND ICE MAKER BOXES SHALL BE KEPT OUT OF RATED WALLS WHERE PRACTICAL. IF BOXES ARE IN RATED WALLS, THE CONTRACTOR SHALL INSTALL FIRE RATED BOXES.

PROVIDE REDUCED PRESSURE BACKFLOW PREVENTORS AT ALL DOMESTIC WATER CONNECTIONS TO MECHANICAL EQUIPMENT, POOL AND IRRIGATION CONNECTIONS, AND VENDING EQUIPMENT CONNECTIONS AS REQUIRED BY CODE AND AUTHORITIES HAVING JURISDICTION. BACKFLOW PREVENTORS SHALL BE LOCATED WITH A MINIMUM OF 1'-0" CLEARANCE AT THE LOWEST POINT AND AT NO MORE THAN 5'-0" ABOVE FINISHED FLOOR AT THE HIGHEST POINT OF THE DEVICE.

19. PROVIDE MANUFACTURED EXPANSION DEVICES EQUAL TO METRAFLEX METRALOOP OR FABRICATED EXPANSION LOOPS ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS

20. THERMAL EXPANSION AND CONTRACTION IN ALL DOMESTIC WATER PIPING SYSTEMS SHALL BE COMPENSATED FOR USING U-BENDS, Z-BENDS OR EXPANSION JOINTS AS INDICATED. U-BENDS (LOOPS) AND Z-BENDS SHALL BE COMPLETE WITH PIPE GUIDES AND ANCHORS. EXPANSION COMPENSATION IN PIPING RISERS OVER 100 FEET IN LENGTH SHALL BE MADE WITH ENGINEERED SYSTEMS; EITHER SPRING TYPE ISOLATORS AND CENTRAL ANCHOR SYSTEM (BY MASON INDUSTRIES) OR FLEXIBLE HOSE EXPANSION LOOPS (METRALOOP AS MANUFACTURED BY

THE METRAFLEX COMPANY). REFER TO SPECIFICATION SECTION 22 05 16 FOR ADDITIONAL REQUIREMENTS. CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT SELECTED FOR THE VOLTAGES SHOWN THEREIN. THE VOLTAGE COORDINATION STATEMENT IS TO BE COMPLETED AND SUBMITTED WITH THE SHOP DRAWING SUBMITTAL. FAILURE TO SUBMIT THE VOLTAGE COORDINATION STATEMENT WILL BE CAUSE

. ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH ELECTRICAL

23. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE

REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED. 24. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER

ACCEPTANCE BY THE OWNER. 25. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY CP25 CAULK CS105 COMPOSITE PANEL FS105 WRAP/SRINK TREMCO HII METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR

APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. T-RATINGS SHALL BE

WRAP MUST EQUAL T-RATING.

MAINTAINED BY DOUBLE WRAPPING PENETRATIONS 4'-0" ABOVE FLOOR PENETRATIONS WITH A FIRE WRAP.

26. PROVIDE AN INLINE FILTER ON THE DOMESTIC WATER SUPPLY TO ALL ICE MACHINES; FILTRINE MODEL TM OR ENGINEER APPROVED EQUAL

27. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.. VTR'S SHALL BE LOCATED A MINIMUM 10'-0" AWAY FROM FRESH AIR INTAKES AND

28. IN WOOD FRAMED BUILDINGS, IPEX PVC PISTON TYPE EXPANSION JOINTS SHALL BE INSTALLED IN VERTICAL STACKS AT ALTERNATING FLOORS IN THE CEILING CAVITIES. PIPE CLAMPS SHALL BE INSTALLED AT THE SILL PLATE OF THE FLOOR ABOVE THE FITTING.

29. IN WOOD FRAMED BUILDINGS, ALL HORIZONTAL GAS PIPING SHALL BE RUN IN THE FLOOR CEILING ASSEMBLY. GAS PIPING SHALL THEN BE ROUTED TO STUD CAVITY TO THE NEAREST APPLIANCE. PIPING WILL THEN PENETRATE EITHER THE SILL PLATE OR THE TOP PLATE INTO STUD CAVITY. HORIZONTAL PIPING SHALL NOT RUN THROUGH WALL STUDS. VERTICAL BLACK STEEL GAS RISER PIPING SHALL BE PROVIDED WITH METRAFLEX MLAC SERIES EXPANSION JOINT IN FIRST FLOOR CEILING. VERTICAL CSST PIPING SHALL HAVE AN EXPANSION LOOP IN THE WALL OR IN THE FLOOR CEILING ASSEMBLY AT EVERY OTHER FLOOR. PIPE RISER CLAMPS SHALL BE INSTALLED PER CODE

30. PROVIDE AN ASSE 1070 THERMOSTATIC MIXING VALVE FOR EACH PUBLIC AND EMPLOYEE LAVATORY AND HAND SINK SET AT 110°F EQUAL TO LEONARD MODEL 170-LF THERMOSTATIC MIXING VALVE.

1. PROVIDE AN ASSE 1070 THERMOSTATIC MIXING VALVE FOR EACH BATHTUB WITHOUT AN ASSE 1016 PRESSURE BALANCING SHOWER VALVE SET AT 120°F EQUAL TO LEONARD MODEL 370-LF THERMOSTATIC

32. PROVIDE ONE HOSE BIBB BELOW THE VANITY IN EACH POOL RESTROOM.

33. ALL COMPONENTS OF THE DOMESTIC WATER SYSTEM SHALL COMPLY WITH ANSI/NSF 61, NSF 372, AND NSF 34. APPLIANCE AND LINE GAS PRESSURE REGULATORS SHALL BE ACCESSIBLE AND PROVIDED WITH VENT LIMITERS CONFORMING WITH ANSI Z21.80 PER NFPA 54. OVERPRESSURE PROTECTION DEVICES SHALL BE

INSTALLED ON GAS PIPING WITH AN OPERATING PRESSURE GREATER THAN 2 PSI SERVING APPLIANCES

DESIGNED TO OPERATE AT 14" W.C. OR LESS. 35. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AS CONSTRUCTION PROGRESSES.. CONTRACTOR SHALL SUBMIT AS-BUILTS TO ARCHITECT/ENGINEER FOR REVIEW AFTER THE FINAL CERTIFICATE OF

OCCUPANCY HAS BEEN OBTAINED. 36. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ALL PLUMBING SYSTEM COMPONENTS THAT ARE TO BE

37. CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH FINAL GRADING TO ASCERTAIN THE CONDITIONS AND MAKE PROVISIONS BEFORE IMPLEMENTING WORK. THE CONTRACTOR'S COST ESTIMATE SHALL COVER ALL NECESSARY LABOR FOR MATERIALS. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR OMISSIONS OR FAULTY WORK OR FOR THE PAYMENT OF ADDITIONAL COMPENSATION.

38. BEFORE BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, THE CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. PROCEED WITH CAUTION SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN BE DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE

ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON THE RECORD DRAWINGS. 39. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS FOR NEW PIPING CONNECTING TO CIVIL. NOTIFY ENGINEER OF ANY DISCREPANCIES.

40. COORDINATE INTERRUPTION OF SERVICES AND UTILITIES WITH THE OWNER OR OWNER'S REPRESENTATIVE, FIRE DEPARTMENT AND UTILITY COMPANIES TO ENSURE MINIMUM SHUTDOWN TIMES

THAT ARE ACCEPTABLE TO THE OWNER AND AUTHORITIES. 41. FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, GAUGES, STRAINERS, UNIONS, ETC. FOR EACH PIECE OF EQUIPMENT HAVING PLUMBING CONNECTIONS TO FACILITATE PROPER FUNCTIONING AND SERVICING. DO NOT INSTALL PIPING AT LOCATIONS THAT INTERFERE WITH SERVICE ACCESSIBILITY TO

42. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO INSTALLATION OF FLOOR DRAINS, FLOOR SINKS AND OTHER RECEPTORS. RELOCATION DUE TO MISPLACEMENT SHALL BE AT NO ADDITIONAL COST. 43. SEAL ALL PIPE PENETRATIONS THROUGH BUILDING GRADE BEAMS AND EXTERIOR WALLS WATERTIGHT.

44. CONTRACTOR SHALL NOT ABANDON PLUMBING SYSTEMS IN PLACE, UNLESS SPECIFICALLY NOTED. 45. PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY,

INCIDENTAL, REASONABLE OR CUSTOMARILY INCLUDED. 46. PROVIDE A PVC SLEEVE FOR GAS PIPING THAT IS ROUTED UNDER A WALKWAY OR CONCRETE SLAB. 47. ALL UTILITIES TO VENDOR EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S

48. COORDINATE ALL FLOOR DRAIN, FLOOR SINK, HUB DRAIN, WALL AND FLOOR CLEANOUT LOCATIONS WITH

ARCHITECT, OWNER, AND EQUIPMENT VENDOR PRIOR TO INSTALLATION. 49. PROVIDE CHECK VALVES ON THE HOT AND COLD WATER INLETS AT THERMOSTATIC MIXING VALVES. 50. EXTERIOR GAS PIPING SHALL BE GALVANIZED OR PAINTED. REFER TO ARCHITECT FOR COLOR AND TYPE

51. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET AND SHALL BE EITHER HAND OPERATED OR AUTOMATIC.

FLORIDA ADMINISTRATIVE CODE 61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS

WATER BASED FIRE PROTECTION SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUTOMATIC SPRINKLER SYSTEMS OF WET, DRY, FINE WATER SPRAY (MIST), MANUAL, AND DELUGE VALVE CONTROLLED TYPES. PUMPING SYSTEMS, STANDPIPES, FIRE WATER MAINS AND DEDICATED FIRE PROTECTION WATER SOURCES.

2) TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE: a) THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY SECTION 633.021(18), F.S.

RESPONSE: THE POINT OF SERVICE FOR THE SPRINKLER SYSTEM IS CONNECTED IN ALLEY WAY OFF OF SANDHILL BLVD. CHARLOTTE, FL. (b) APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS.

RESPONSE: PROVIDE NFPA 13, NFPA 14, NFPA 13D AND/OR NFPA 13R AND THE REQUIREMENTS OF FLORIDA STATUTES 61G15-32.004, ITEMS A THRU M.

(c) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA. RESPONSE: PLEASE REFER TO THE DESIGN CRITERIA SECTION 1.04, B, 3A IN SPECIFICATION SECTION 21 00 00.

(d) DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH SEPARATE HAZARD OCCUPANCY.

RESPONSE: PLEASE REFER TO THE DESIGN CRITERIA SECTION 1.04, B, 3A AND AUTOMATIC SPRINKLER SYSTEM MATERIAL 2.04, B IN SPECIFICATION SECTION 21 00 00.

e) CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING; AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA.

RESPONSE: THE POINT OF SERVICE CONNECTION IS FROM A 8" WATER MAIN. PLEASE REFER TO SHEET 11. (f) WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT BUTT COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE.

RESPONSE: A "FLOW TEST DATA SCHEDULE" HAS BEEN ADDED TO THE PLANS. PLEASE REFER TO FRONT SHEET FOR DATA. $\mathfrak{g})$ - VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER.

RESPONSE: A TAMPER (SUPERVISED OS&Y) AND FLOW SWITCH ARE BEING PROVIDED ON THE FIRE RISER LOCATED INSIDE OF THE FIRE RISER ROOM. THESE DEVICES SHALL BE TIED INTO THE FIRE ALARM SYSTEM PLEASE REFER TO THE SPRINKLER RISER DETAIL ON FRONT SHEET, FRONT SHEET ELECTRICAL SHEET (SYMBOLS VS AND WF) AND THE FIRE ALARM SPECIFICATIONS 28 31 11.

h) MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH ÈFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES. RESPONSE: ACKNOWLEDGED.

BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP. RESPONSE: A 6" DOUBLE CHECK DETECTOR BACKFLOW PREVENTER SHALL BE PROVIDED. PLEASE REFER TO THE REVISED FIRE RISER DETAIL ON SHEET [PLUMBING/FIRE PROTECTION SHEET REFERENCE].

QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS.

RESPONSE: PLEASE REFER TO SPECIFICATION SECTION 21 00 00. k) OWNER'S CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNER'S INFORMATION CERTIFICATE IS REQUIRED FROM THE PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE

SPACE FOR THE CURRENT AND FUTURE USE OF THE PROPERTY, AS REQUIRED BY THE CODES AND STANDARDS SET FORTH IN SUBSECTION 61G15-32.002(7), F.A.C. RESPONSE: NOT APPLICABLE.

COMMON REQUIREMENTS TO ALL FIRE PROTECTION ENGINEERING DOCUMENTS

THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL PROVIDE THE ENGINEERING REQUIREMENTS TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS AND TO INDICATE THE NATURE AND SCOPE OF THE WORK, AND TO DESCRIBE, DETAIL, DIMENSION, LABEL AND DEFINE THE FIRE PROTECTION COMPONENTS, SYSTEM(S), MATERIALS, ASSEMBLIES, EQUIPMENT AND ITS STRUCTURAL AND UTILITY SUPPORT SYSTEM(S), INSOFAR AS THEY INVOLVE THE SAFEGUARDING OF LIFE, HEALTH OR PROPERTY.

THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL SPECIFY THE APPLICABLE REQUIREMENTS FOR THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS, WHICH SHALL BE BASED UPON APPLICABLE CODES AND STANDARDS, WHERE AVAILABLE.

THE OCCUPANCY OF THE AREA OR DESCRIPTION OF A SPECIFIC HAZARD BEING PROTECTED BY THE FIRE PROTECTION SYSTEM(S) SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING

THE APPLICABLE CODE AND STANDARD TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS. WHEN CODES AND STANDARDS ARE NOT AVAILABLE OR APPLICABLE, AND SAID LAYOUT DOCUMENTS ARE TO BE BASED ON ENGINEERING JUDGMENT, ANY REASONS AND ASSUMPTIONS MADE TO DEVELOP THE FIRE PROTECTION CONCEPT SHALL BE IDENTIFIED ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.

STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS REQUIRED BY THE FIRE PROTECTION SYSTEM SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS AND SHALL BE REFERENCED ON STRUCTURAL ENGINEERING DOCUMENTS. WHEN LAYOUT DOCUMENTS CONTAIN MATERIAL DEVIATION FROM THE ENGINEER OF RECORD'S FIRE PROTECTION SYSTEM ENGINEERING DOCUMENT, SUCH LAYOUT DOCUMENTS ARE NOT COMPLIANT

UNLESS THEY ARE ACCOMPANIED BY REVISED ENGINEERING DOCUMENTS MADE AND SEALED BY THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM. REQUIREMENTS FOR ACTIVATION CONTROL SYSTEMS, SEQUENCE, OPERATING PARAMETERS, INTERLOCKS, SAFETY RELATED DEVICES, INDICATORS AND ALARMS, SHALL BE SHOWN ON THE FIRE

PROTECTION SYSTEM ENGINEERING DOCUMENTS, UNLESS SHOWN ON OTHER RELATED DOCUMENTS. ANY INFORMATION DEEMED APPROPRIATE BY THE ENGINEER OF RECORD TO ASSIST THE AUTHORITY HAVING JURISDICTION IN UNDERSTANDING THE OWNER'S INTENDED USE AND PROPOSED PROTECTION

OF THE BUILDING OR FACILITY AND TO PROVIDE SUFFICIENT DIRECTION TO THE INSTALLATION CONTRACTOR OR OTHER INTERESTED PARTIES REGARDING THE LAYOUT OF THE SYSTEM(S), SHALL BE INCLUDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.

FIRE PROTECTION ELECTRICAL ENGINEERING DOCUMENTS SHALL ADDITIONALLY MEET THE REQUIREMENTS OF RULE 61G15-30.003, F.A.C., ENGINEERING DOCUMENTS

DRAINAGE PRODUCTS/SPECIALTIES

UNLESS OTHERWISE INDICATED MODEL NUMBERS ARE JAY R. SMITH. APPROVED EQUAL

ZURN, JOSAM, MIFAB, WADE, WATTS, SIOUX CHIEF, PRECISION PLUMBING PRODUCTS.

CO - EXPOSED CLEANOUT - UNFINISHED AREAS JAY R. SMITH FIG. 4420 CAST BRONZE COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.

WCO - WALL CLEANOUT - FINISHED AREAS

JAY R. SMITH FIG. 4436 CAST IRON FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE, NICKEL

BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.

JAY R. SMITH FIG. 4220 CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.

JAY R. SMITH FIG. 4151 CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.

JAY R. SMITH FIG. 4020-Y CAST IRON CLEANOUT WITH GASKET SEAL THREADED PLUG, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.

YCO - EXTERIOR PAVED/CONCRETE AREAS

JAY R. SMITH FIG. 4261 CAST IRON FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER.

YCO - EXTERIOR UNSURFACED AREAS

JAY R. SMITH FIG. 4261 CAST IRON FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE.

<u>FD-G</u> - FLOOR DRAINS-GENERAL/RESTROOMS JAY R. SMITH FIG. 2005-B6 SERIES CAST IRON FLOOR DRAIN WITH 6" SQUARE NICKEL BRONZE STRAINER, SPEEDI-SET OUTLET CONNECTION AND TRAP PRIMER CONNECTION.

FD-M -FLOOR DRAINS-GENERAL PURPOSE/MECHANICAL ROOM JAY R. SMITH FIG. 3715 SERIES CAST IRON 12" DIAMETER DRAIN WITH SEDIMENT BUCKET, CAST IRON GRATE WITH LOOSE 4" FUNNEL, SPEEDI-SET OUTLET CONNECTION AND TRAP

FS-1 - FLOOR SINK WATTS FS-730 12" SQUARE, 6" DEEP WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON 1/2 GRATE, ALUMINUM DOME BOTTOM STRAINER, NO HUB OUTLET.

TP-A - AUTOMATIC TRAP PRIMER PRECISION PLUMBING PRODUCTS PRIME-RITE SERIES AUTOMATIC TRAP PRIMER WITH MULTIPLE OUTLET DISTRIBUTION UNITS AS REQUIRED. ASSE 1018 COMPLIANT.

ZURN Z1021 CHROME PLATED 1-1/2" POLISHED CAST BRASS P-TRAP WITH CLEANOUT, WALL ARM, GROUND JOINT ELBOW, SLIP NUT AND WASHERS, 1-1/4" SLIP NUT, WASHERS AND LAV/SINK TAILPIECE, ESCUTCHEONS, FLEXIBLE PRIMER TUBING, AND COMPRESSION FITTING. ASSE 1044 COMPLIANT

PRECISION PLUMBING PRODUCTS SYSTEM RATED PLUS SERIES COPPER WATER HAMMER ARRESTOR. INSTALL IN AN UPRIGHT POSITION AT ALL FLUSH VALVES, WASHING MACHINE SUPPLIES, DISHWASHERS, PRV STATIONS, AND OTHER QUICK CLOSING VALVES, SOLENOIDS AND PLUMBING FIXTURES. LOCATE AND SIZE AS INDICATED ON DRAWINGS. WHERE NOT SHOWN ON DRAWINGS, LOCATE AND SIZE IN ACCORDANCE WITH PDI STANDARD WH-201.

HB - MILD CLIMATE/INTERIOR HOSE BIBB WOODFORD MODEL 24P HOSE BIBB WITH WHEEL HANDLE WITH VACUUM BREAKER, ROUGH BRASS, FOR USE IN NON-PUBLIC AREAS.

WITH MOUNTING FLANGE AND SHROUD, MALE HOSE END OUTLET WITH DUAL CHECK

VACUUM BREAKER, NICKEL BRONZE FACE, AND SIZED IN ACCORDANCE WITH WALL

NFRH - NON-FREEZE ROOF HYDRANT WOODFORD MODEL SRH-MS. ROOF MOUNT PEDESTAL NON-FREEZE HYDRANT COMPLETE

BACKFLOW PREVENTOR, SELF DRAINING VENTURI, 3/4" INLET, NO DRAIN REQUIRED. NFHB - NON-FREEZE EXTERIOR HOSE BIBB JAY R. SMITH FIG. 5609-QT NON FREEZE 3/4" CAST BRONZE EXPOSED HYDRANT INTEGRAL

WB-1 - WASHING MACHINE BOX

GUY GRAY MODEL T200 20 GAUGE WHITE POWDER COATED STEEL WITH QUARTER TURN VALVES, WATER HAMMER ARRESTORS, AND 2" WASTE. PROVIDE FR-12 SERIES IN ALL FIRE RATED WALLS.

<u>IM-1</u> - ICE MAKER BOX

GUY GRAY MODEL MIB1HAAB 20 GAUGE WHITE POWDER COATED WITH QUARTER TURN VALVE AND WATER HAMMER ARRESTOR. PROVIDE FR-12 SERIES IN ALL FIRE RATED WALLS.

IW - INDIRECT WASTE WALL BOX PS CORP. MODEL MBS1200DB1 AUXILIARY DRAIN OUTLET BOX. PROVIDE IPS CORP. MODEL MBFRS1200DB1 IN FIRE RATED WALLS.

AAV - AIR ADMITTANCE VALVE STUDOR MINI-VENT, INTERNAL SCREENING, PREVENTS THE RELEASE OF FOUL AIR, WHITE

CONTROL, OR EQUAL.

ABS, 1-160 DFU PER BRANCH, 8-24 DFU PER STACK. RD - ROOF DRAINS-INSULATED ROOF JAY R. SMITH FIG. 1015-Y-RC. C.I. BODY WITH FLASHING CLAMP AND SUMP RECEIVER CLAMP,

CAST IRON, ADJUSTABLE EXTENSION TO SUIT INSULATION THICKNESS, NO HUB OUTLET CONNECTION, CAST IRON DOME. ERD - EMERGENCY ROOF DRAIN JAY R. SMITH FIG. 1080-Y C.I. BODY WITH 2" HIGH WATER DAMN AND CAST IRON, NO HUB

OUTLET CONNECTION, CAST IRON DOME

PLUMBING ACOUSTICAL GENERAL NOTES

ALL RISER PIPING (BOTH SUPPLY, SANITARY AND STORM) SHALL BE SUPPORTED WITH PIPE CLAMPS IN CONJUNCTION WITH NEOPRENE ISOLATORS BETWEEN THE CLAMPS AND THE CONCRETE FLOOR SLABS. ALLOW SUFFICIENT CLEARANCE AROUND PIPE TO PREVENT VIBRATION "SHORT-CIRCUITS" TO THE SLAB. PACK SPACE BETWEEN PIPE AND SLAB WITH APPROVED MATERIAL AND SEAL WITH A NON-HARDENING CAULK.

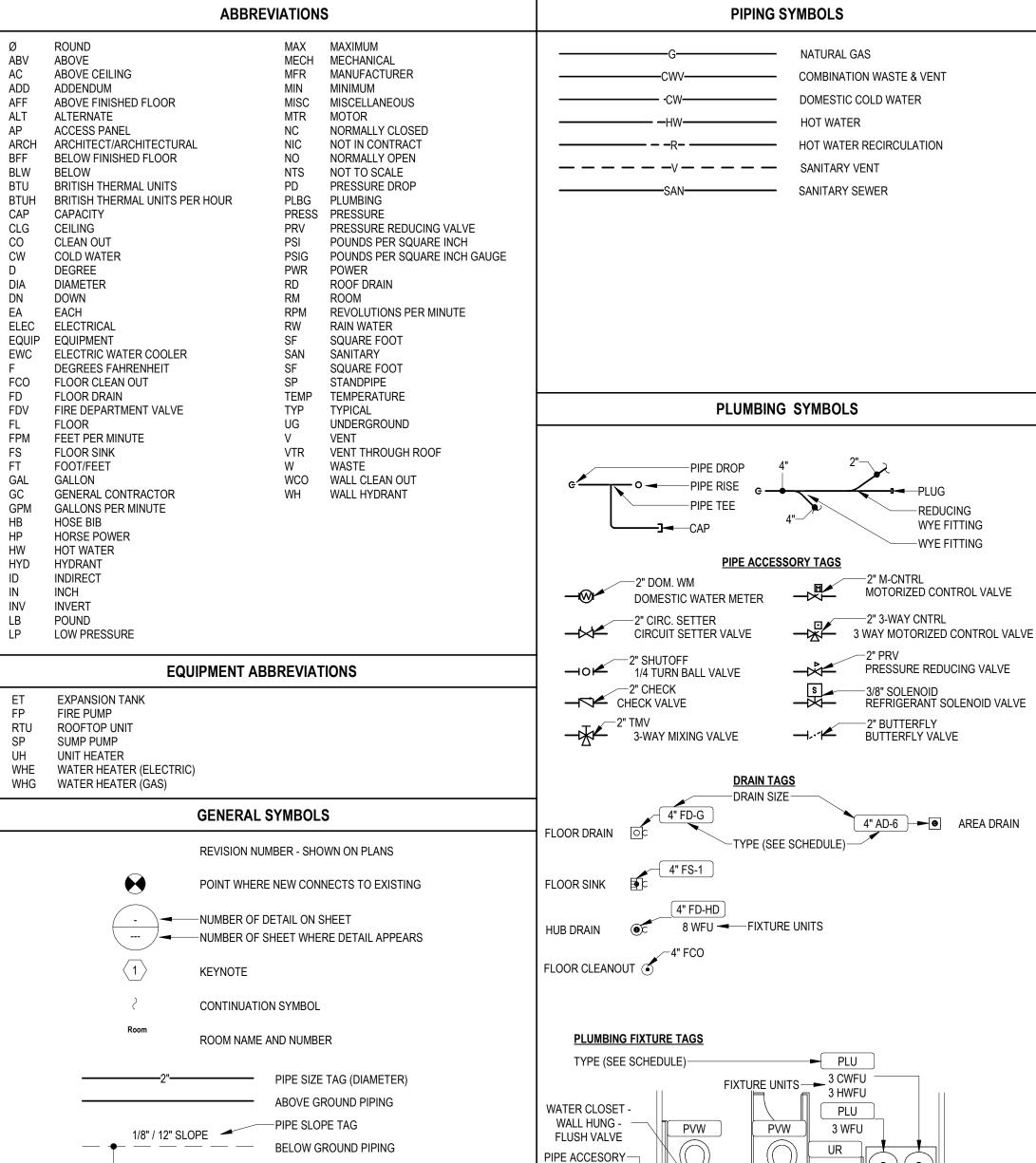
ALL DOMESTIC COLD AND HOT WATER SUPPLY PIPING SHOULD BE RESILIENTLY FASTENED TO STUDS AND DRYWALL WITH NEOPRENE OR RUBBER SLEEVES OF AT LEAST 1/4" THICKNESS. AVOID FASTENING PIPING SUPPLYING ONE UNIT. TO THE WALL OF AN ADJOINING UNIT (I.E., DO NOT ALLOW PIPING FROM ONE UNIT TO CONTACT THE WALLS

OF THE ADJACENT UNIT). WATER VELOCITY IN THE DOMESTIC PIPING SHOULD NOT EXCEED 6 FPS, AND PIPING SIZE SHOULD BE ADJUSTED FOR THIS MAXIMUM VELOCITY. WASHING MACHINES, DRYERS AND DISHWASHERS IN UPPER-FLOOR UNITS SHOULD BE

PLACED ON NEOPRENE PADS OR ISOLATION MOUNTS AS SPECIFIED BY THE APPLIANCE FLEXIBLE CONNECTORS SHOULD BE USED TO COUPLE WATER PUMPS TO THE PLUMBING

DO NOT ALLOW DOMESTIC OR SANITARY PIPING TO TOUCH METAL STUDS OR GYPSUM

BOARD. AT POINTS OF CONTACT, INSERT A SMALL PIECE OF ARMACELL INSULATION TO BREAK THIS CONTACT. SANITARY P-TRAPS, FIXTURE DRAINS, AND BRANCH PIPING SHALL BE LAGGED IN THE CEILING OF NON-STACKED RESIDENTIAL UNITS. PROVIDE NETLAG FROM NETWELL NOISE



FLOW TEST DATA SCHEDULE

PIPE INVERT ELEVATION TAG

UPON AWARD OF THE CONTRACT, THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A FLOW TEST ON THE TWO HYDRANTS NEAREST THE SITE AND FORWARD THE TEST DATA TO THE ENGINEER AND ARCHITECT THE FOLLOWING WATER PRESSURE/FLOW DATA WAS OBTAINED FROM: GRU WATER & WASTEWATER ENGINEERING

—INVERT: -101' - 1"

One with	a more mire it endinger through
STATIC PRESSURE:	80 PSI
RESIDUAL PRESSURE:	67 PSI
FLOW (GPM):	2117 GPM
ELEVATION OF TEST HYDRANT:	
LOCATION OF TEST HYDRANT:	FORT CLARKE BLVD
DATE OF TEST:	07.18.2022
TIME OF DAY OF TEST:	8:55 AM

PLUMBING SHEET INDEX

P0.00 GENERAL NOTES & LEGENDS P0.01 SCHEDULES & DETAILS

RISER DIAGRAMS BUILDING PLANS, TYPE I, FIRST & SECOND LEVEL PLANS P2.02 BUILDING PLANS, TYPE I, THIRD LEVEL PLAN

P2.03 BUILDING PLANS, TYPE II, FIRST & SECOND LEVEL PLANS P2.04 BUILDING PLANS, TYPE II, THIRD LEVEL PLAN P2.05 BUILDING PLANS, TYPE III, FIRST & SECOND LEVEL PLANS BUILDING PLANS, TYPE III, THIRD LEVEL PLAN

P2.07 BUILDING PLANS, TYPE IV, FIRST & SECOND LEVEL PLANS P2.08 BUILDING PLAN, TYPE V, FIRST LEVEL PLAN P2.09 BUILDING PLAN, TYPE V, SECOND LEVEL PLAN

P2.10 BUILDING PLAN, TYPE V, THIRD LEVEL PLAN

P2.11 BUILDING PLAN, TYPE V, FOURTH LEVEL PLAN P2.12 BUILDING PLAN, TYPE V, ROOF PLAN P4.01 UNIT PLANS

P4.03 UNIT PLANS P4.04 UNIT PLANS P4.05 UNIT PLANS P4.06 UNIT PLANS P4.07 UNIT PLANS

Grand total: 22

P4.02 UNIT PLANS

FREEZE PROTECTION FOR PIPING

PROVIDE HEAT TRACE CABLING AND INSULATION ON ALL DOMESTIC WATER PIPING, FIRE PROTECTION WET SYSTEM PIPING, AND SANITARY P-TRAPS THAT ARE SUBJECT TO FREEZING. REFER TO THE SPECIFICATIONS.

PLUMBING/ELECTRICAL COORDINATION

THE PLUMBING CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT (VOLTAGE, PHASE, MCA, MOCP, ETC.) WITH THE ELECTRICAL CONTRACTOR AND THE ELECTRICAL PLANS PRIOR TO SUBMITTING OR ORDERING ANY PLUMBING EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN THE PLUMBING EQUIPMENT ELECTRICAL REQUIREMENTS AND THE ELECTRICAL SERVICE, AS DESIGNED AND PROVIDED, SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR WITH NO ADDITIONS TO THE CONTRACT.

PLUMBING/ELECTRICAL COORDINATION STATEMENTS REQUIRED BY PLUMBING GENERAL NOTES AND SPECIFICATION SECTION 22 00 00, PARAGRAPH 1.10.F SHALL BE INCLUDED WITH PLUMBING EQUIPMENT SUBMITTALS/SHOP DRAWINGS.

PLUMBING MATERIALS

I. REFER TO THE SPECIFICATIONS FOR ACCEPTABLE MATERIALS FOR PIPING, FITTINGS,

REFER TO THE SPECIFICATIONS FOR PIPING INSULATION REQUIREMENTS.

3. DOMESTIC WATER BRANCH PIPING BELOW GRADE SHALL BE PROTECTED WITH SLEEVES AT ALL PENETRATIONS THROUGH CONCRETE. 4. PVC PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUM SPACES. 5. PVC FOAM CORE PIPING IS NOT ACCEPTABLE FOR ANY DRAINAGE SYSTEM.

Project Number: 22010515

GUESTROOMS, DWELLING UNIT BEDROOMS, AND LIVING SPACES, SHALL BE PROVIDED WITH NETWELL NETLAG ACOUSTICAL INSULATION. 7. ALL ABOVE GRADE DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING

6. PVC SANITARY AND STORM DRAINAGE PIPING ABOVE AMENITY AND PUBLIC SPACES.

SHALL BE INSULATED. PIPING INSULATION SHALL COMPLY WITH IECC FOR CONDUCTIVITY AND MEAN RATING TEMPERATURE.

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Description Revisions

> Construction Documents -Progress Set Lullwater at Ft.

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments

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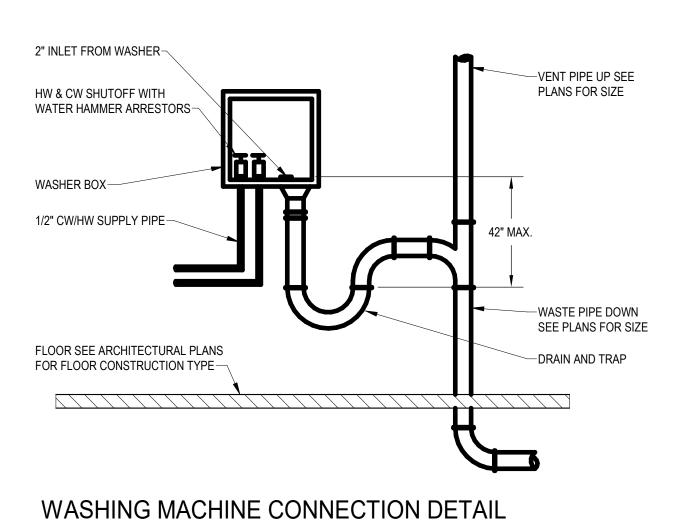
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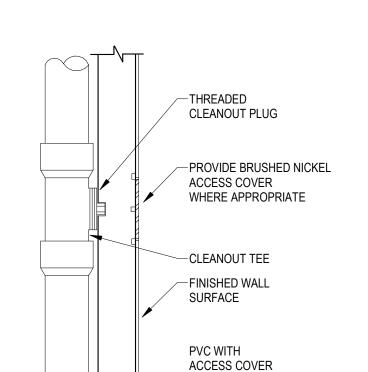
GENERAL NOTES & **LEGENDS**

Date:

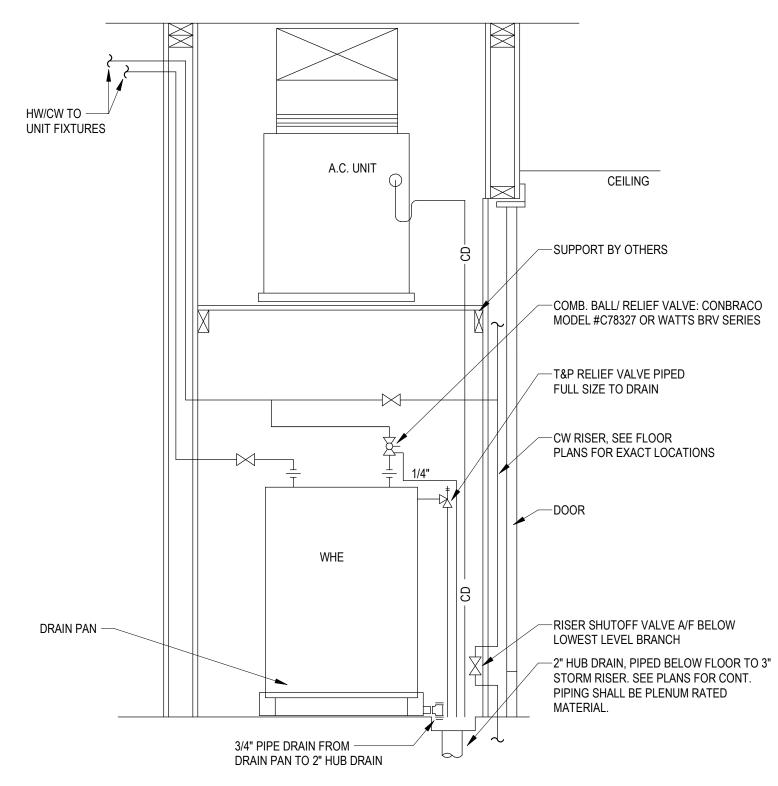
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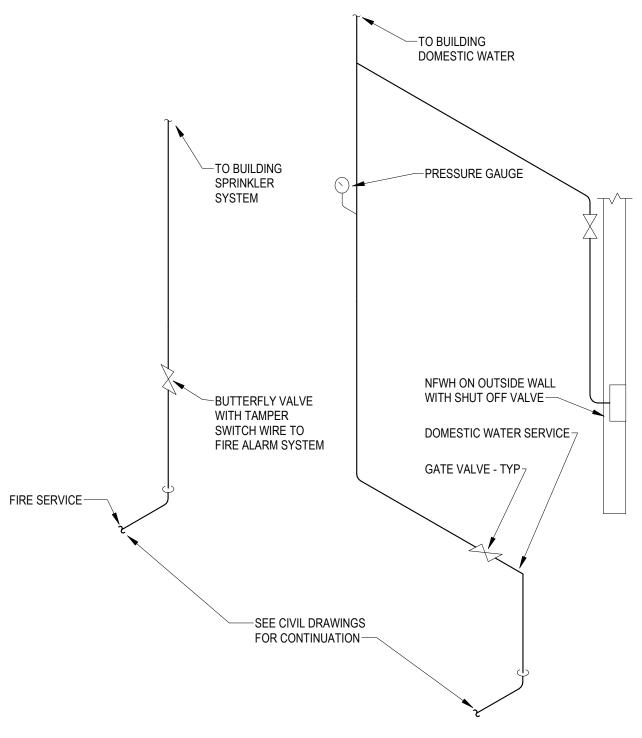




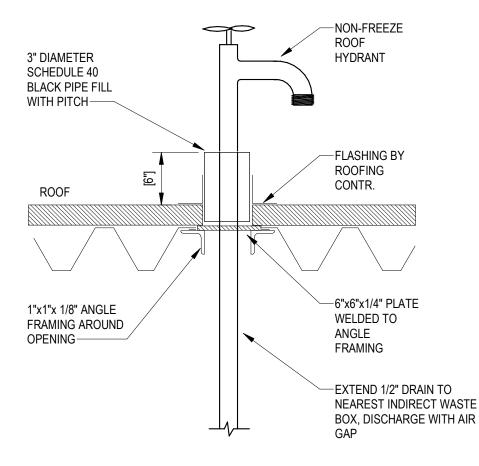
WALL CLEANOUT DETAIL



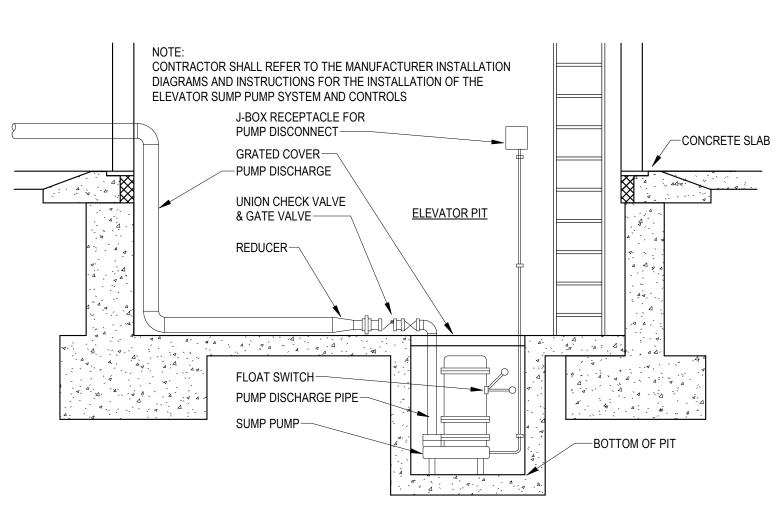
WATER HEATER CLOSET DETAIL



DOMESTIC/FIRE WATER ENTRY DETAIL



NON-FREEZE ROOF HYDRANT DETAIL



ELEVATOR SUMP PUMP DETAIL

SCALE: NTS

		PLU	IMBING	FIXTU	RE SCH	EDULE				
SYMBOL / DESCRIPTION	FLOW RATE	MINIM WASTE	UM ROUGH-IN VENT	SIZES CW	HW	DESCRIPTION	MANUFACTURE / MODEL NUMBER			
WC-1 WATER CLOSET, FLOOR MOUNTED, FLUSH TANK	1.28 GPF	3"	2"	1/2"		WHITE VITREOUS CHINA, 1.28 GPF, TWO PIECE, FLOOR OUTLET, LONGATED, 12" ROUGH-IN, ELONGATED CLOSED FRONT TOILET SEAT WITH COVER. PROVIDE QUARTER TURN STOP WITH ESCUTCHEONS AND BRAIDED STAINLESS STEEL SUPPLY.	TOILET: WESTERN POTTERY B832/T8ULF-HP SEAT: HYDRAPRO WFE2H			
WC-1A WATER CLOSET, FLOOR MOUNTED, FLUSH TANK, ADA	1.28 GPF	3"	2"	1/2"		WHITE VITREOUS CHINA, 1.28 GPF, TWO PIECE, FLOOR OUTLET, LONGATED, 12" ROUGH-IN, ADA HEIGHT, ELONGATED CLOSED FRONT TOILET SEAT WITH COVER. PROVIDE QUARTER TURN STOP WITH ESCUTCHEONS AND BRAIDED STAINLESS STEEL SUPPLY.	TOILET: WESTERN POTTERY B872/T8ULF-HET SEAT: HYDRAPRO WFE2H			
<u>L-1</u> LAVATORY UNDERMOUNT	1.5 GPM	1-1/2"	1-1/2"	1/2"	1/2"	WHITE VITREOUS CHINA, 1.5 GPM, POP-UP DRAIN. PROVIDE P-TRAP WITH SLIP NUTS, CLEANOUT PLUG, QUARTER TURN STOPS WITH ESCUTCHEONS, BRAIDED STAINLESS STEEL SUPPLIES.	FAUCET: PEERLESS P188624LF <u>LAVATORY</u> : CRANE US1550V <u>SUPPLY:</u> BRASSCRAFT SR1712A <u>DRAIN:</u> KOHLER K-7131-A-CP <u>TRAP:</u> KOHLER K-8999			
<u>L-1A</u> LAVATORY UNDERMOUNT	1.5 GPM	1-1/2"	1-1/2"	1/2"	1/2"	WHITE VITREOUS CHINA, 1.5 GPM, POP-UP DRAIN. PROVIDE P-TRAP WITH SLIP NUTS, CLEANOUT PLUG, QUARTER TURN STOPS WITH ESCUTCHEONS, BRAIDED STAINLESS STEEL SUPPLIES.	FAUCET: PEERLESS P188624LF <u>LAVATORY</u> : CRANE US1550V <u>SUPPLY</u> : BRASSCRAFT SR1712A <u>DRAIN:</u> KOHLER K-7131-A-CP <u>TRAP</u> : KOHLER K-8999			
KS-1 KITCHEN SINK UNDERMOUNT	1.75 GPM	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE DISHWASHER DRAIN LOOP OR DISHWASHER DRAIN PLUG. PROVIDE BASKET STRAINER, P-TRAP WITH SLIP NUTS, CLEANOUT PLUG, QUARTER TURN STOPS WITH ESCUTCHEONS, BRAIDED STAINLESS STEEL SUPPLIES.	FAUCET: PEERLESS P18550LF SINK (STAINLESS STEEL): JUST MODEL CDL-2233-B-GR SUPPLY: BRASSCRAFT SR1712A			
KS-1A KITCHEN SINK UNDERMOUNT	1.75 GPM	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE DISHWASHER DRAIN LOOP OR DISHWASHER DRAIN PLUG. PROVIDE BASKET STRAINER, P-TRAP WITH SLIP NUTS, CLEANOUT PLUG, QUARTER TURN STOPS WITH ESCUTCHEONS, BRAIDED STAINLESS STEEL SUPPLIES.	FAUCET: PEERLESS P18550LF SINK (STAINLESS STEEL): JUST MODEL DL-ADA-2233-A-GR SUPPLY: BRASSCRAFT SR1712A			
KS-2 KITCHEN SINK UNDERMOUNT	1.75 GPM	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE DISHWASHER DRAIN LOOP OR DISHWASHER DRAIN PLUG. PROVIDE BASKET STRAINER, P-TRAP WITH SLIP NUTS, CLEANOUT PLUG, QUARTER TURN STOPS WITH ESCUTCHEONS, BRAIDED STAINLESS STEEL SUPPLIES.	FAUCET: PEERLESS P18550LF SINK (STAINLESS STEEL): KOHLER K-20060-1-NA SUPPLY: BRASSCRAFT SR1712A			
BT-1 BATHTUB/SHOWER COMBO WITH THREE WALLS	1.5 GPM	2"	2"	1/2"	1/2"	WHITE, SOLID VIKRELL MATERIAL. CONTRACTOR SHALL VERIFY LEFT OR RIGHT HAND. PROVIDE WASTE, OVERFLOW, STRAINER, PUSH AND LIFT STOPPER, AND OVERFLOW COVER. AGE IN PLACE BACKERS FOR 1ST FLOOR UNITS.	TUB (WHITE): AKER BY MAAX TO-3660 MIXING VALVE: PEERLESS PTR188700 TRIM TUB KIT: PEERLESS PTT188753 SHOWER ARM: GROHE 27414000			
BT-1A BATHTUB/SHOWER COMBO WITH THREE WALLS	1.5 GPM	2"	2"	1/2"	1/2"	WHITE, SOLID VIKRELL MATERIAL. CONTRACTOR SHALL VERIFY LEFT OR RIGHT HAND. PROVIDE WASTE, OVERFLOW, STRAINER, PUSH AND LIFT STOPPER, AND OVERFLOW COVER. AGE IN PLACE BACKERS FOR 1ST FLOOR UNITS.	TUB (WHITE): AKER BY MAAX TO-3060 MIXING VALVE: PEERLESS PTR188700 TRIM TUB KIT: PEERLESS PTT188753 TUB WASTE OVERFLOW: JB PRODUCTS 745 SHOWER ARM: GROHE 27414000			
BT-2 BATHTUB/SHOWER COMBO WITH THREE WALLS	1.5 GPM	2"	2"	1/2"	1/2"	WHITE, SOLID VIKRELL MATERIAL. CONTRACTOR SHALL VERIFY LEFT OR RIGHT HAND. PROVIDE WASTE, OVERFLOW, STRAINER, PUSH AND LIFT STOPPER, AND OVERFLOW COVER. AGE IN PLACE BACKERS FOR 1ST FLOOR UNITS.	TUB (WHITE): STERLING 71161110-0 MIXING VALVE: PEERLESS PTR188700 TRIM TUB KIT: PEERLESS PTT188753 TUB WASTE OVERFLOW: JB PRODUCTS 745 SHOWER ARM: GROHE 27414000			
SH-1 SHOWER ONLY	1.75 GPM	2"	2"	1/2"	1/2"	SHOWER ENCLOSURE BY GENERAL CONTRACTOR.	SHOWER BASE (WHITE): STERLING ENSEMBLE 72111100-0 SHOWER DRAIN: KOHLER K-9660 SHOWER TRIM KIT(CHROME): Pfister R89-SERIES / JX8340A			

BATHROOM SINK FAUCETS, WATER CLOSETS, URINALS, SHOWER HEADS, AND PRE-RINSE VALVES SHALL BE WATERSENSE LABELED.

ADA COMPLIANT PLUMBING FIXTURES SHALL BE INSTALLED PER ALL FEDERAL AND LOCAL REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

CONFIRM FIXTURE FINISH WITH ARCHITECT / OWNWER PRIOR TO PURCHASE. PROVIDE SATIN NICKEL FINISH ON ALL BATHROOM AND KITCHEN FIXTURES / CONTROLS.

	ELECTRIC STORAGE WATER HEATER SCHEDULE									
0.4.50		MANUFACTURER/	STORAGE	GPH RECOVERY/	OUTLET	ELECTRICAL CRITERIA	FIRST HOUR	UNIFORM ENERGY		
SYMBOL LOCATION		MODEL NO.	CAPACITY GALLONS	TEMP. RISE	TEMPERATURE	KW INPUT	CAPACITY	FACTOR (UEF)	NOTES	
WHE-1	RESIDENTIAL 1 BATH UNITS	A.O. SMITH ENLB 40	38	21/90°	120°F	4.5	45	0.92	1, 2, 3, 4	
WHE-2	RESIDENTIAL 2 BATH UNITS	A.O. SMITH ENLB 50	47	21/90°	120°F	4.5	55	0.93	1, 2, 3, 4	

PROVIDE T&P RELIEF VALVE AND VACUUM RELIEF VALVE

PROVIDE GATE/BALL VALVES WITH UNIONS AND DIELECTRIC FITTINGS ON WATER INLET AND OUTLET CONNECTIONS. ALL UNITS SHALL MEET ASHRAE 90.1-2013, 2015 NAECA, ICC CODE AND ALL LOCAL CODE REQUIREMENTS.

ASME RATING NOT REQUIRED, ALL MODELS EQUIPPED WITH HEAT TRAPS.

GENERAL REQUIREMENTS:

A. ALL WATER HEATER ELEMENTS SHALL OPERATE AT THE FULL KW AND RECOVERY SCHEDULED WHEN OPERATING AT THE BUILDING VOLTAGE INDICATED ON THE ELECTRICAL DRAWINGS (I.E. 208V, 220V, 240V, ETC. B. DUAL ELEMENT NON-SIMULTANEOUS OPERATION.

C. PROVIDE THERMAL EXPANSION TANK WATTS PLT-5.

D. APPROVED EQUALS SHALL BE BRADFORD WHITE, LOCHINVAR, RHEEM, AND STATE

PLUMBING PUMP SCHEDULE											
SYMBOL	MANUFACTURER	MODEL NUMBER	SERVICE/LOCATION	TYPE	FLOW PER PUMP (GPM)	SUCTION PRESSURE (PSI)	HEAD PER PUMP (PSI)	SYSTEM PRESSURE (PSI)	RPM	HP	NOTES
ESP-1	STANCOR	SE50 OIL MINDER	SANITARY DRAINAGE/ ELEVATOR PIT	SUBMERSIBLE SIMPLEX	50	0	9	9	3450	0.5	1
HWRP-1	BELL & GOSSETT	ECOCIRC 19-16	HOT WATER RECIRC./ JANITORS CLOSET	INLINE	3	0	2	2	ECM	(60 W)	2

2. PUMP CONTROL SHALL BE PROPORTIONAL PRESSURE WITH BELL & GOSSETT AQUASTAT AND TIMER KIT.

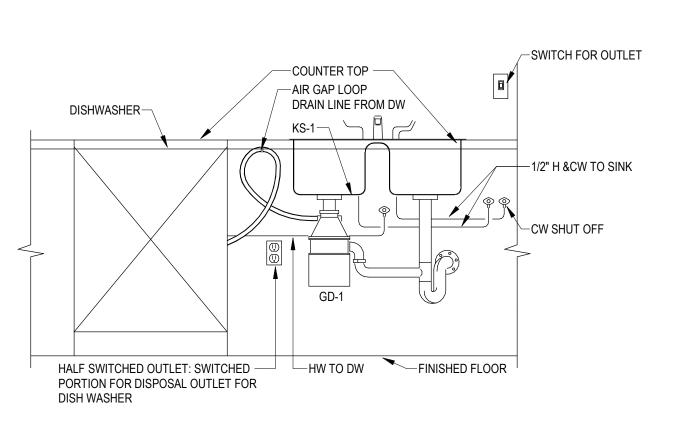
GENERAL REQUIREMENTS:

A. ALL DOMESTIC WATER PUMPS SHALL BE OF LEAD-FREE BRONZE OR STAINLESS STEEL CONSTRUCTION AND ANSI/NSF 61 CERTIFIED. B. ALL THREE-PHASE PUMP MOTORS 1 HP OR LARGER SHALL MEET OR EXCEED EFFICIENCY STANDARDS FOR NEMA PREMIUM MOTORS.

C. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. ALL PUMPS SHALL BE STARTED AND COMMISSIONED BY FACTORY TRAINED PERSONNEL.

ABBREVIATIONS: ESP: ELEVATOR SUMP PUMP HWRP: HOT WATER RECIRCULATION PUMP



KITCHEN SINK W/GARBAGE DISPOSAL DETAIL SCALE: NTS

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> > Drawn By: Author Checked By: Checker

Project Number: 22010515

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Description Revisions

> Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments Residences, LLC

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Sheet Title:

SCHEDULES & **DETAILS**

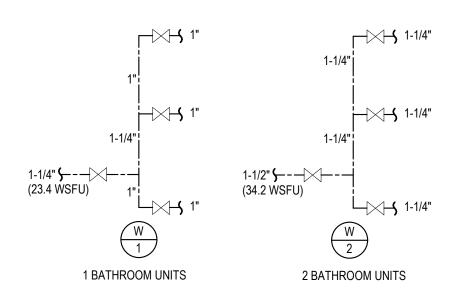
Date:

September 30, 2022

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P0.01

SANITARY AND VENT ISOMETRICS
SCALE: N.T.S.



DOMESTIC WATER RISERS - UNITS

SCALE: N.T.S.



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Ft. Clarke, Florida

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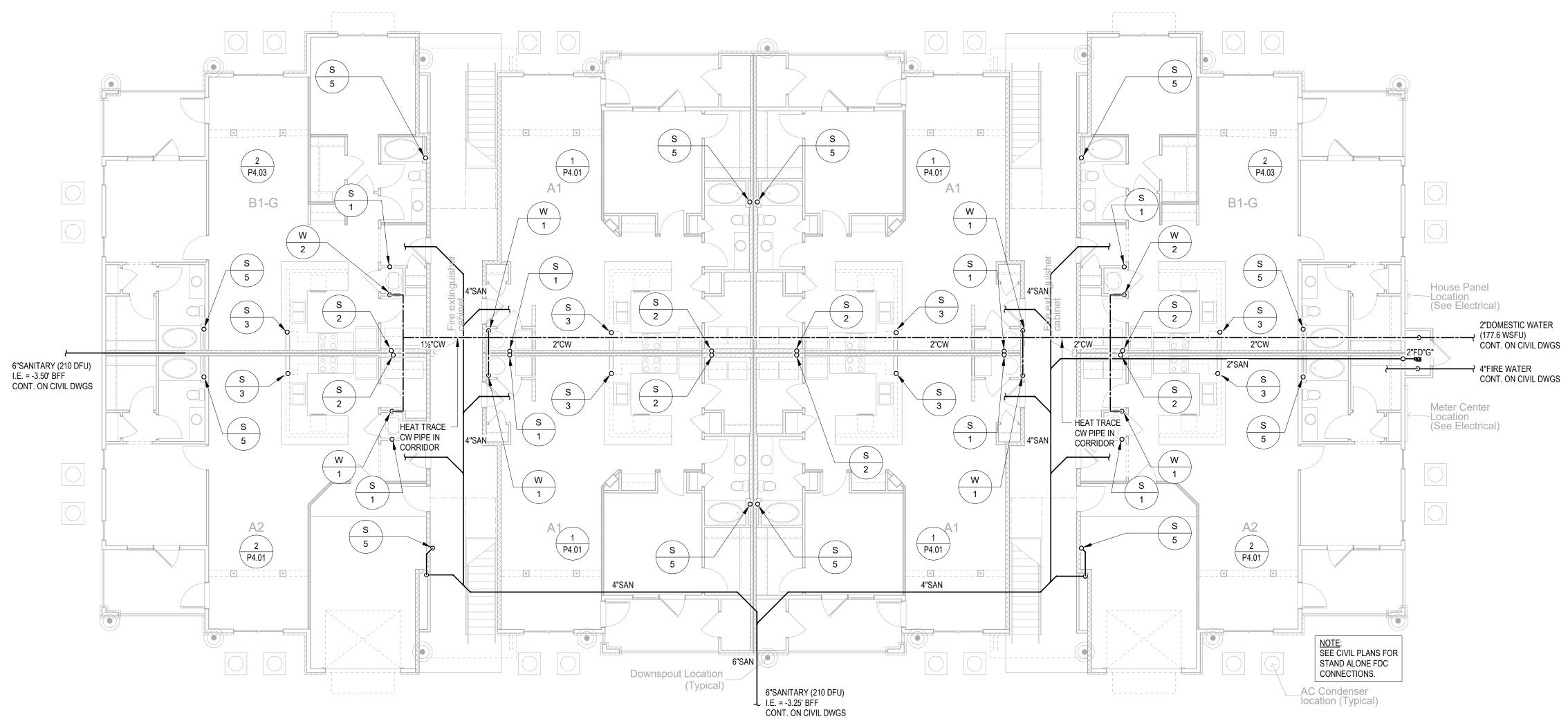
RISER DIAGRAMS

Date:

September 30, 2022

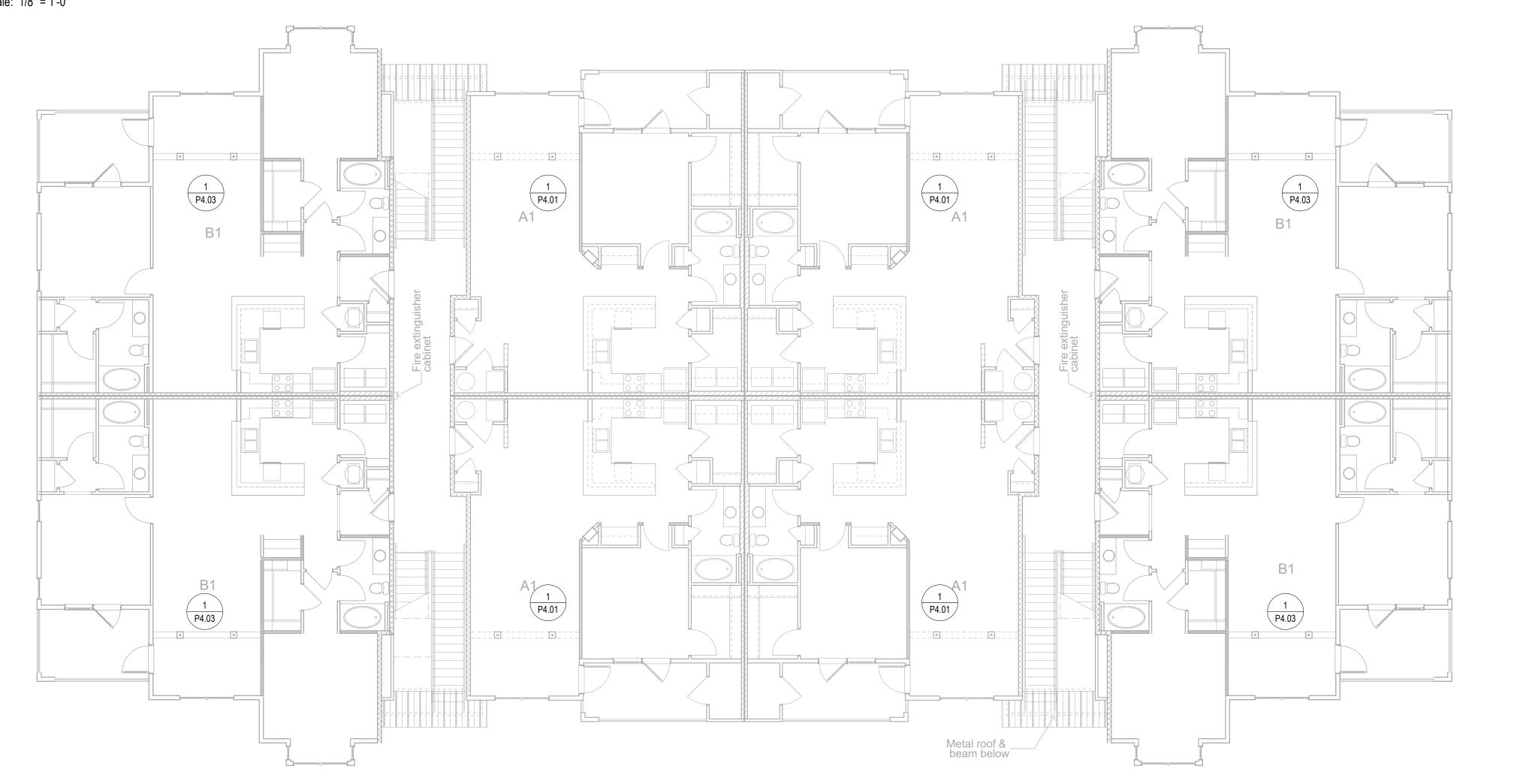
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BUILDING TYPE I - FIRST LEVEL

Scale: 1/8" = 1'-0"



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Sheet Title:

BUILDING PLANS, TYPE I, FIRST & SECOND LEVEL PLANS Date:

September 30, 2022

50, 202

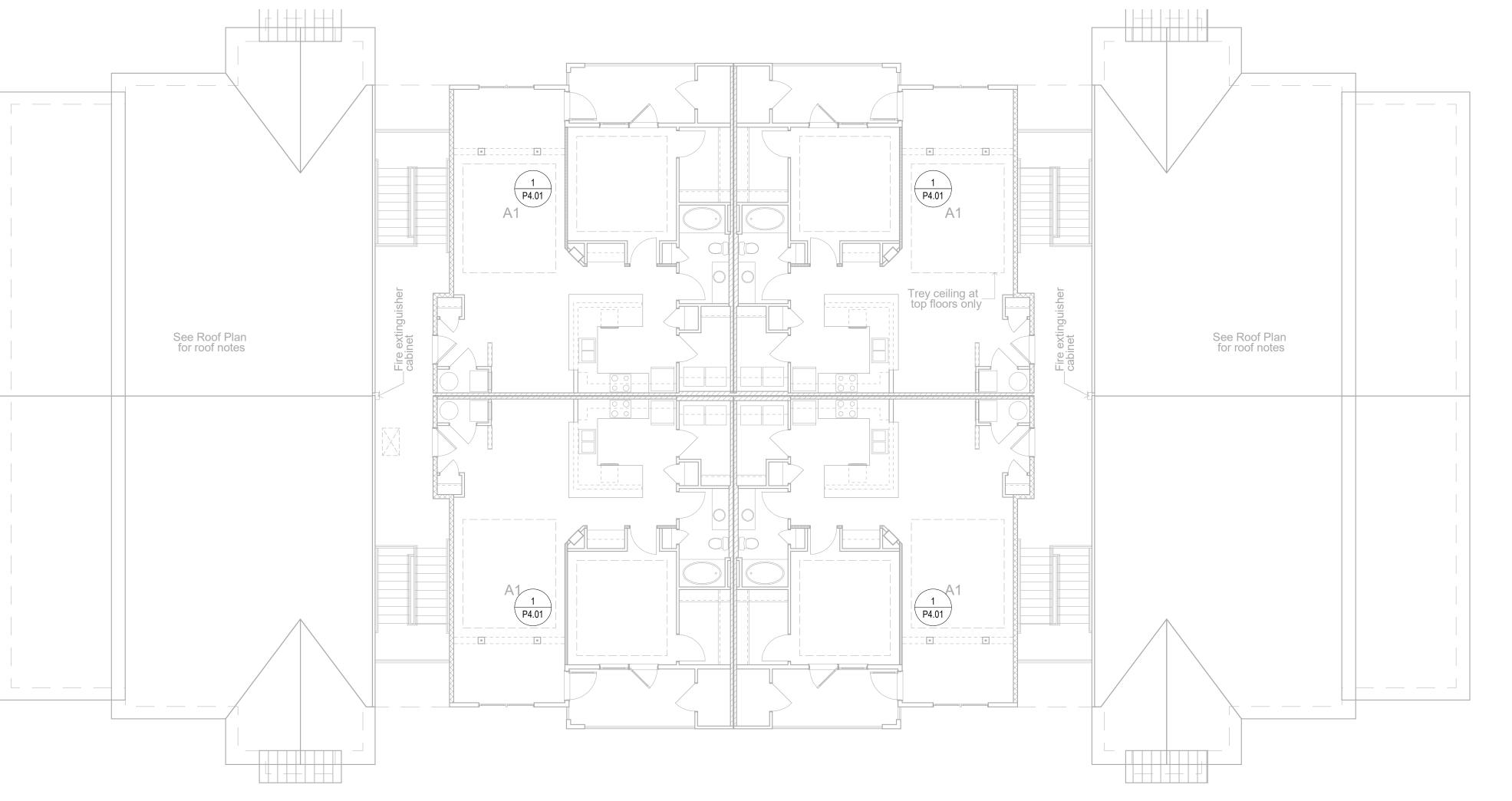
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Project Number: 22010515 Drawn By: Author Checked By: Checker



BUILDING TYPE I - THIRD LEVEL

Scale: 1/8" = 1'-0"

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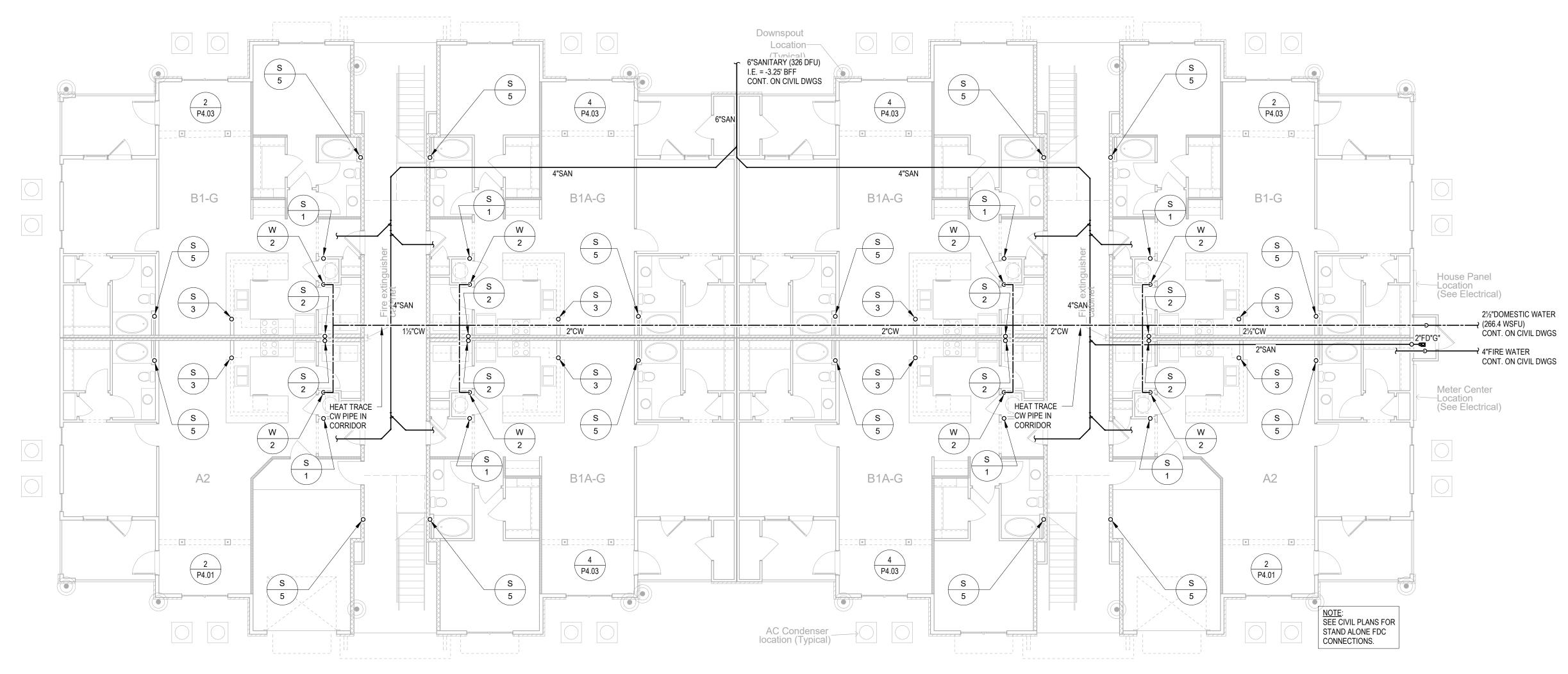
BUILDING PLANS, TYPE I, THIRD LEVEL PLAN

Date:

September 30, 2022

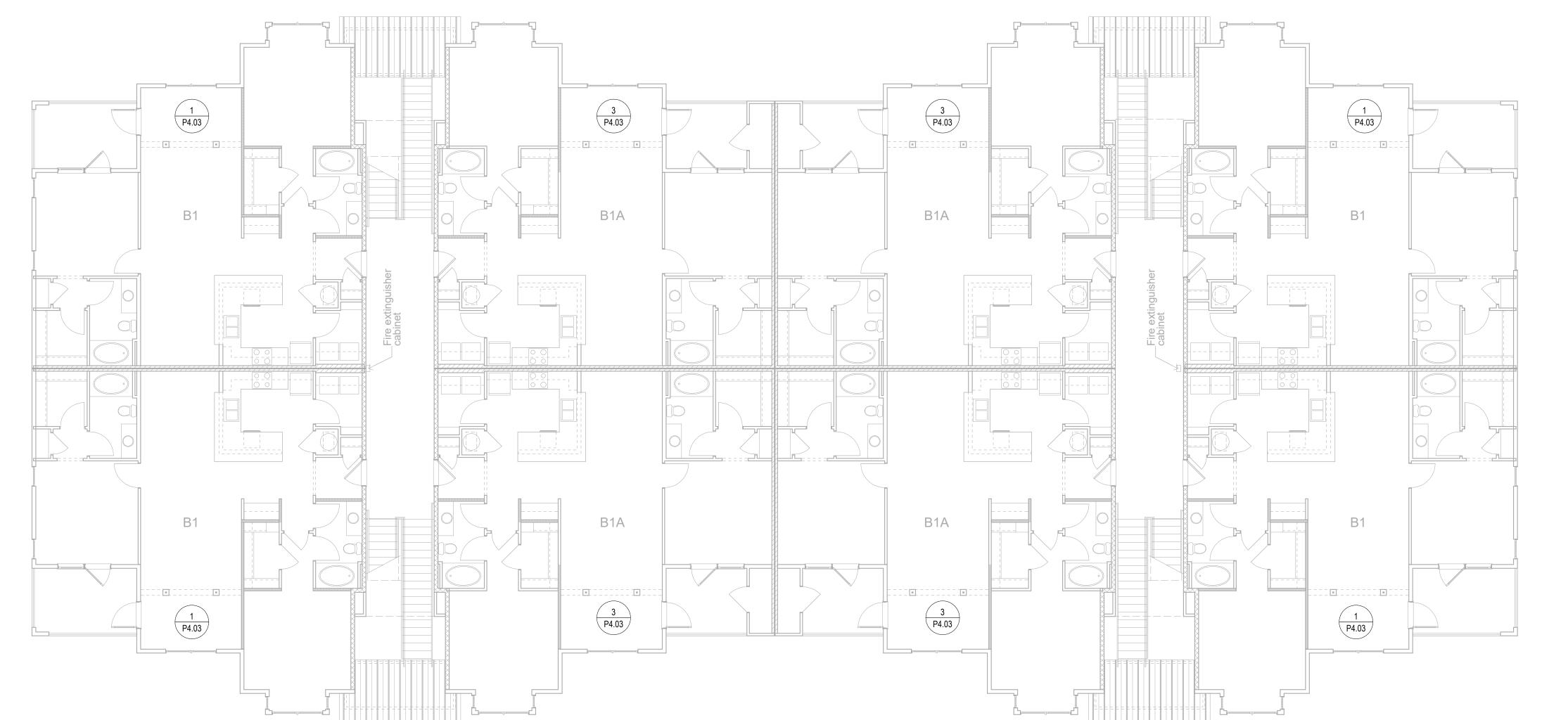
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BUILDING TYPE II - FIRST LEVEL

Scale: 1/8" = 1'-0



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lo. Description Date
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BUILDING PLANS, TYPE II, FIRST & SECOND LEVEL PLANS Date:

Dale. Santambar 20

September 30, 2022

Sheet Number:

P2.03

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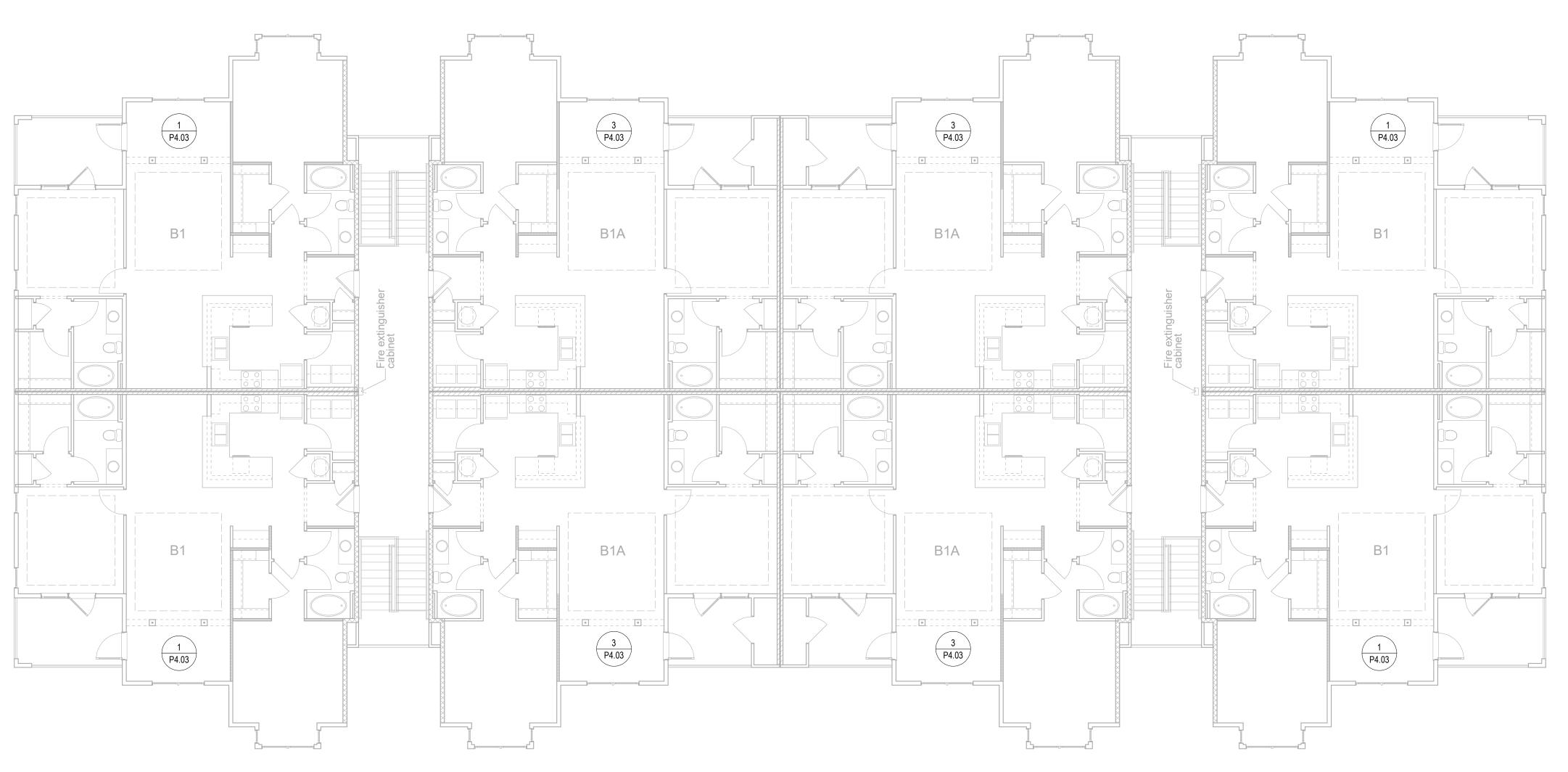
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BUILDING TYPE II - SECOND LEVEL

Scale: 1/8" = 1'-0"



BUILDING TYPE II - THIRD LEVEL

Scale: 1/8" = 1'-0"

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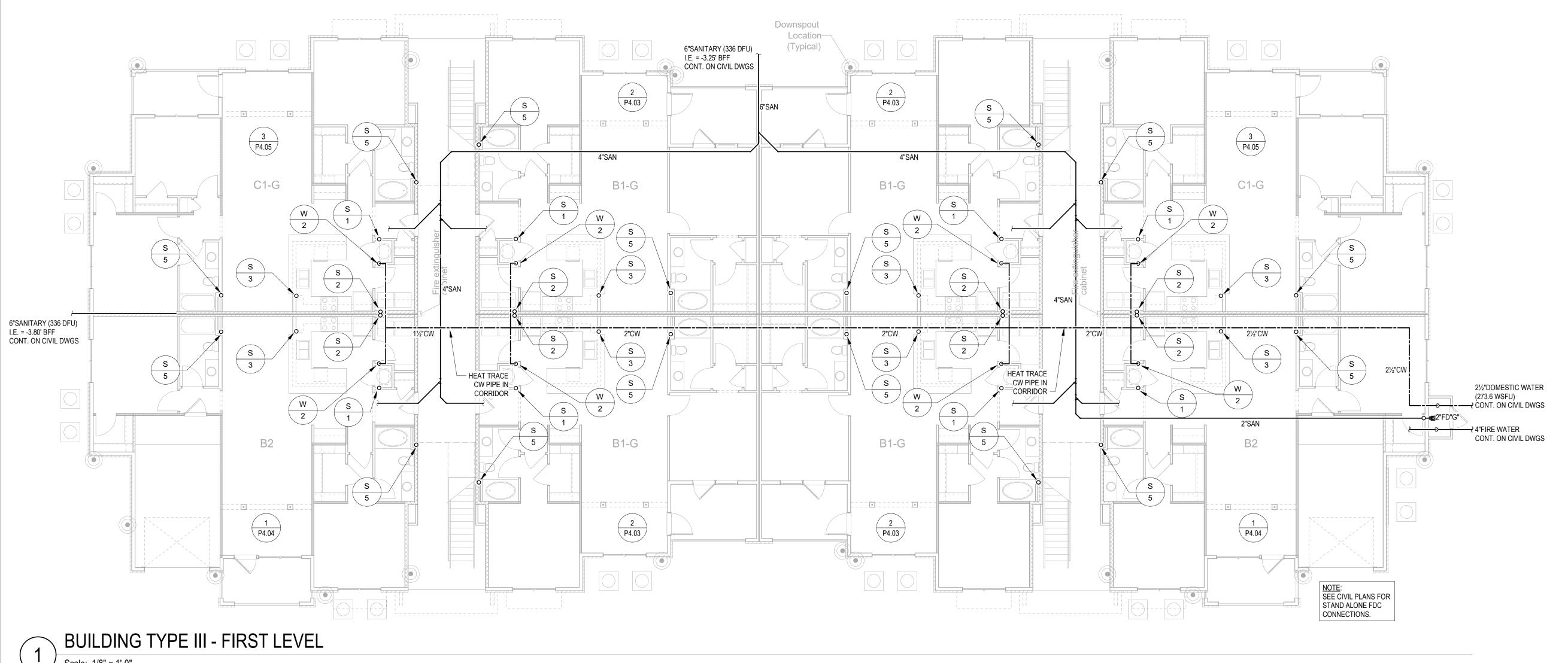
BUILDING PLANS, TYPE II, THIRD LEVEL PLAN

Date:

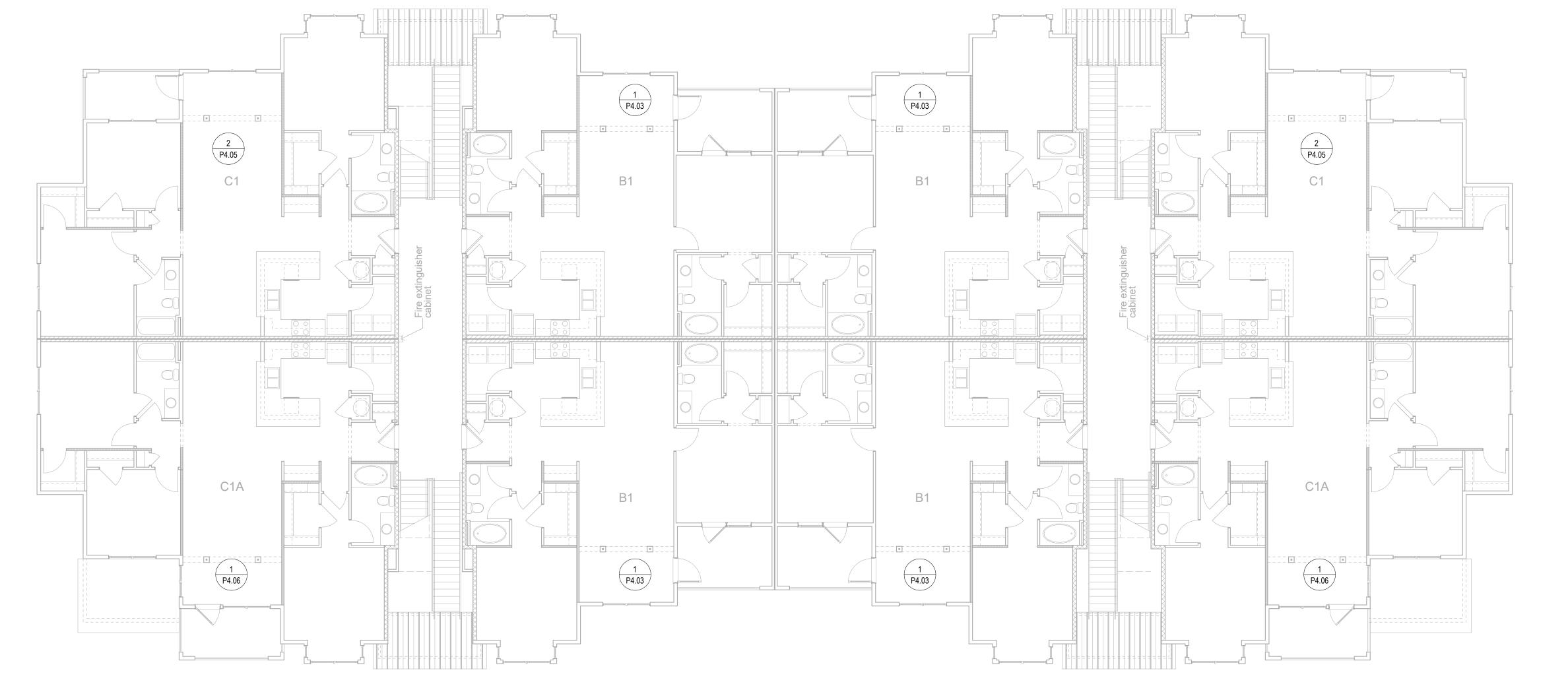
September 30, 2022

Sheet Number:





Scale: 1/8" = 1'-0"



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No. Description Data

Construction
Documents Progress Set
Lullwater at Ft.
Clarke
Apartments

Ft. Clarke, Florida

A Residential Development by: Ft. Clarke Apartments Residences, LLC

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Sheet Title:

BUILDING PLANS, TYPE III, FIRST & SECOND LEVEL PLANS Date:

ale: entember 3

September 30, 2022

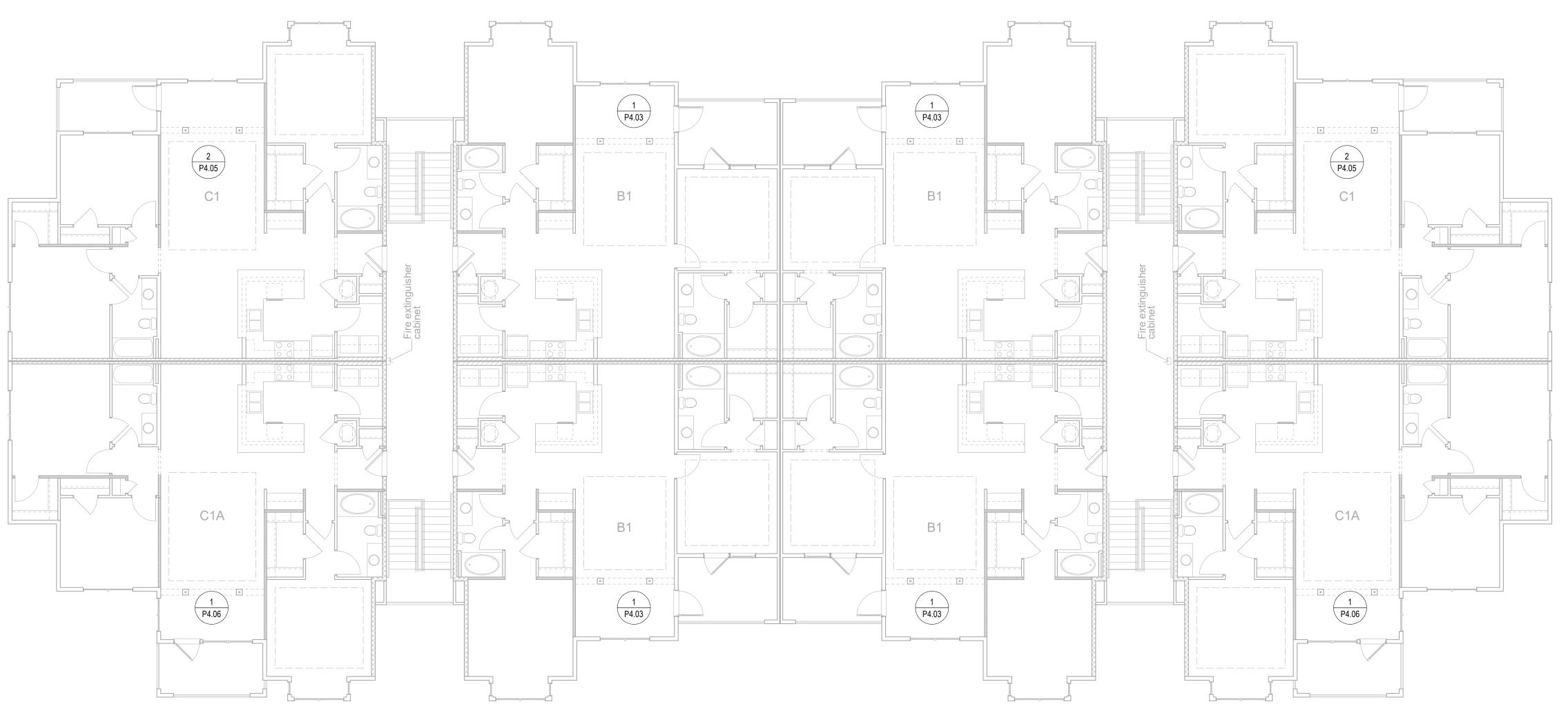
Sheet Number:

P2.05

2 BL Scale

BUILDING TYPE III - SECOND LEVEL

Scale: 1/8" = 1'-0"



BUILDING TYPE III - THIRD LEVEL

Scale: 1/8" = 1'-0"

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Ft. Clarke, Florida

A Residential
Development by: Ft.
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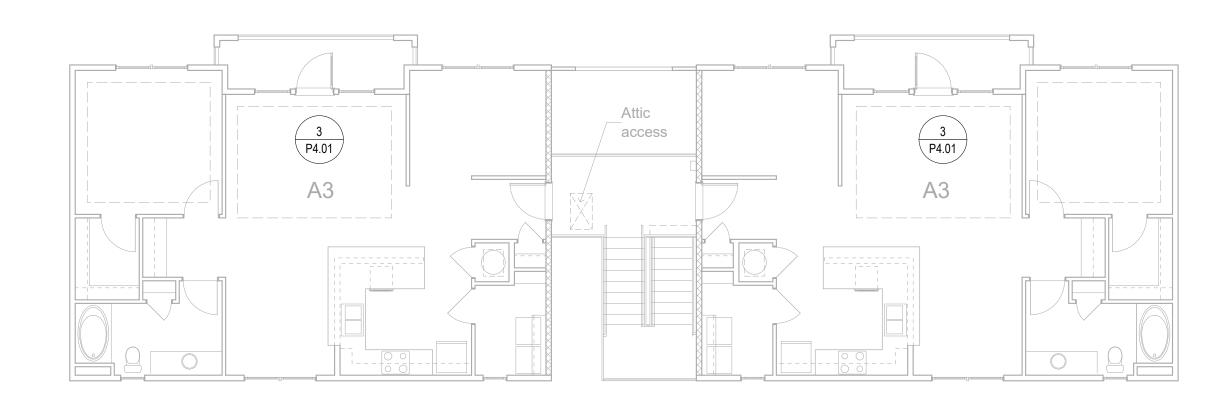
September 30, 2022

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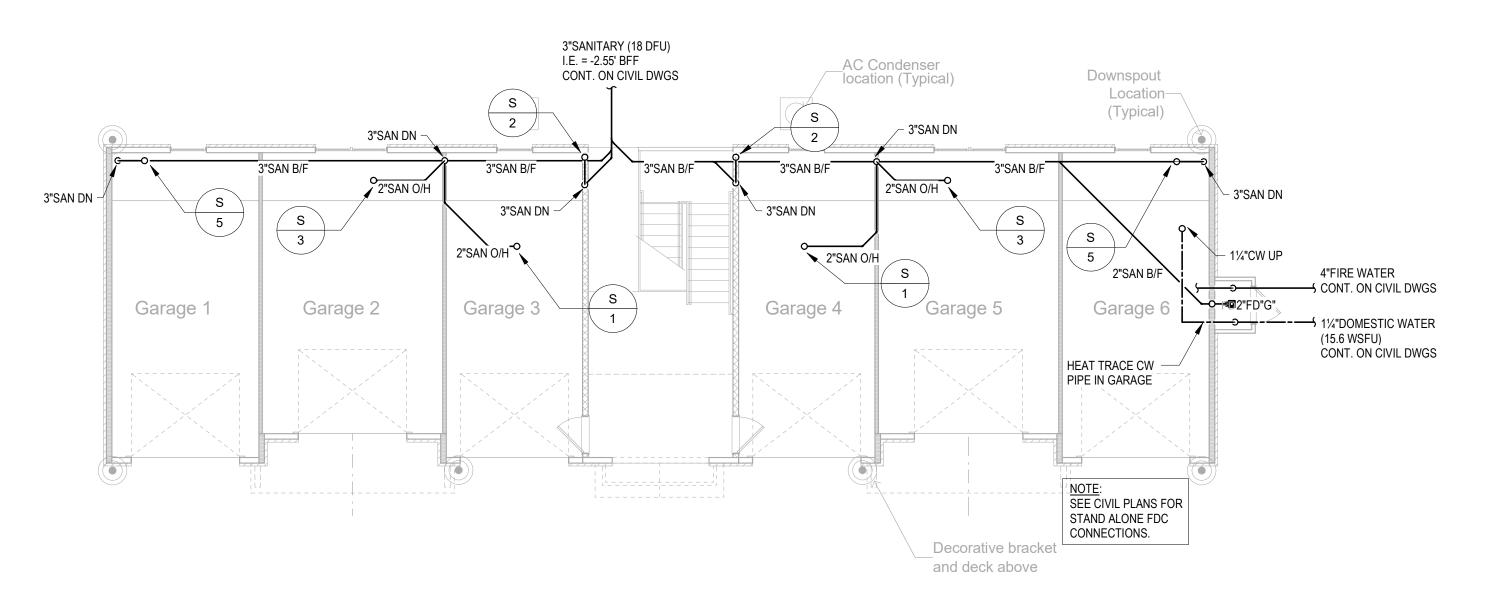
BUILDING TYPE IV - FIRST LEVEL

Scale: 1/8" = 1'-0"



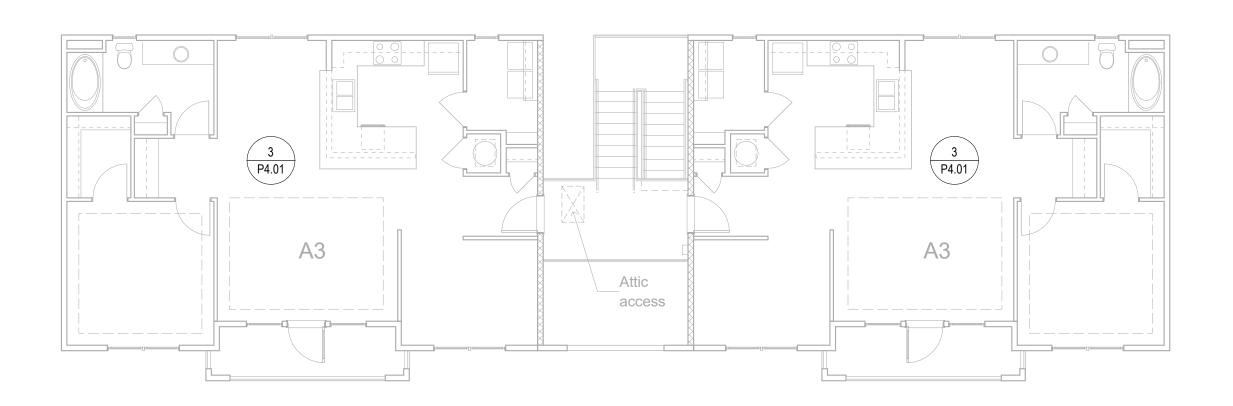
BUILDING TYPE IV - SECOND LEVEL

Scale: 1/8" = 1'-0"



BUILDING TYPE IVa - FIRST LEVEL

Scale: 1/8" = 1'-0"



BUILDING TYPE IVa - SECOND LEVEL

Scale: 1/8" = 1'-0"

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BUILDING PLAN, TYPE V, THIRD LEVEL PLAN

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BUILDING PLAN, TYPE V, FOURTH LEVEL PLAN

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o. Description Date

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Sheet Title:

BUILDING PLAN, TYPE V, ROOF PLAN

Date:

September 30, 2022

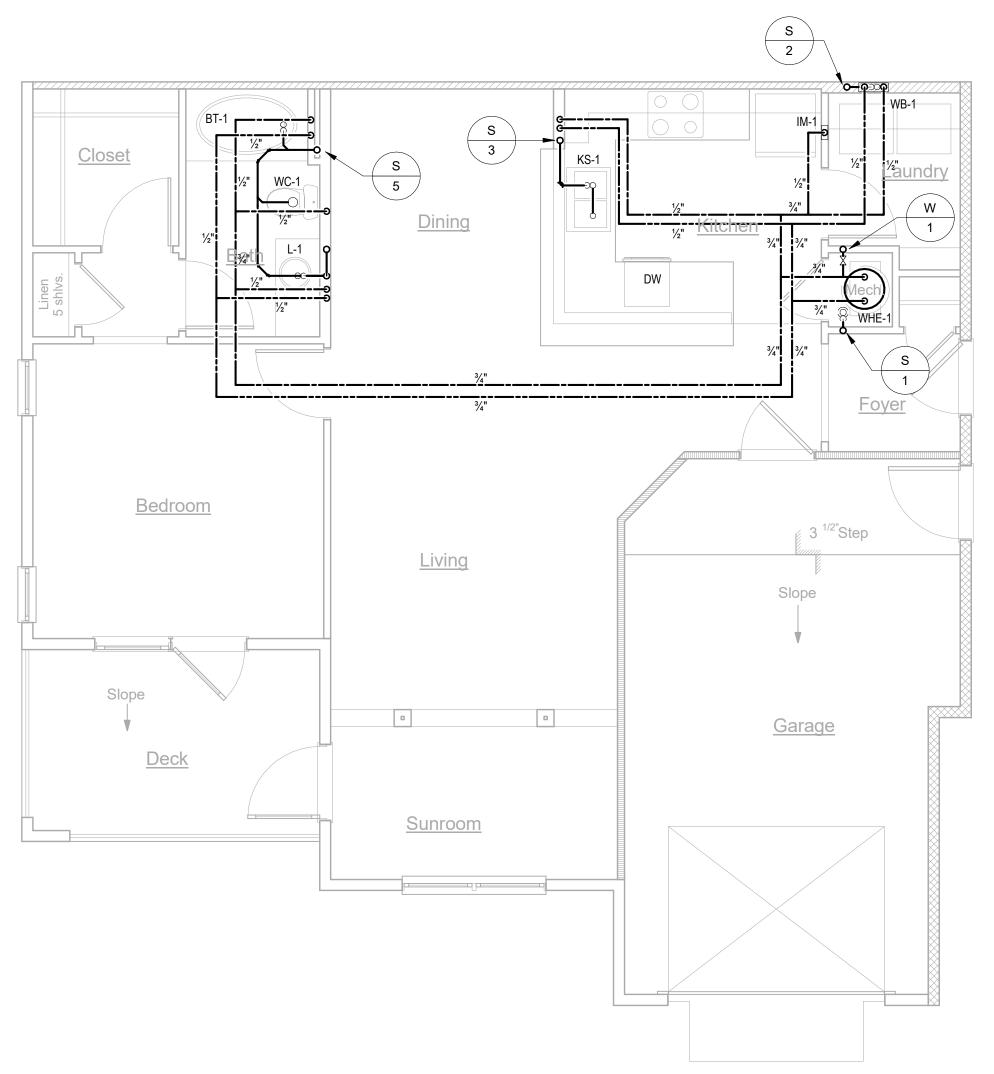
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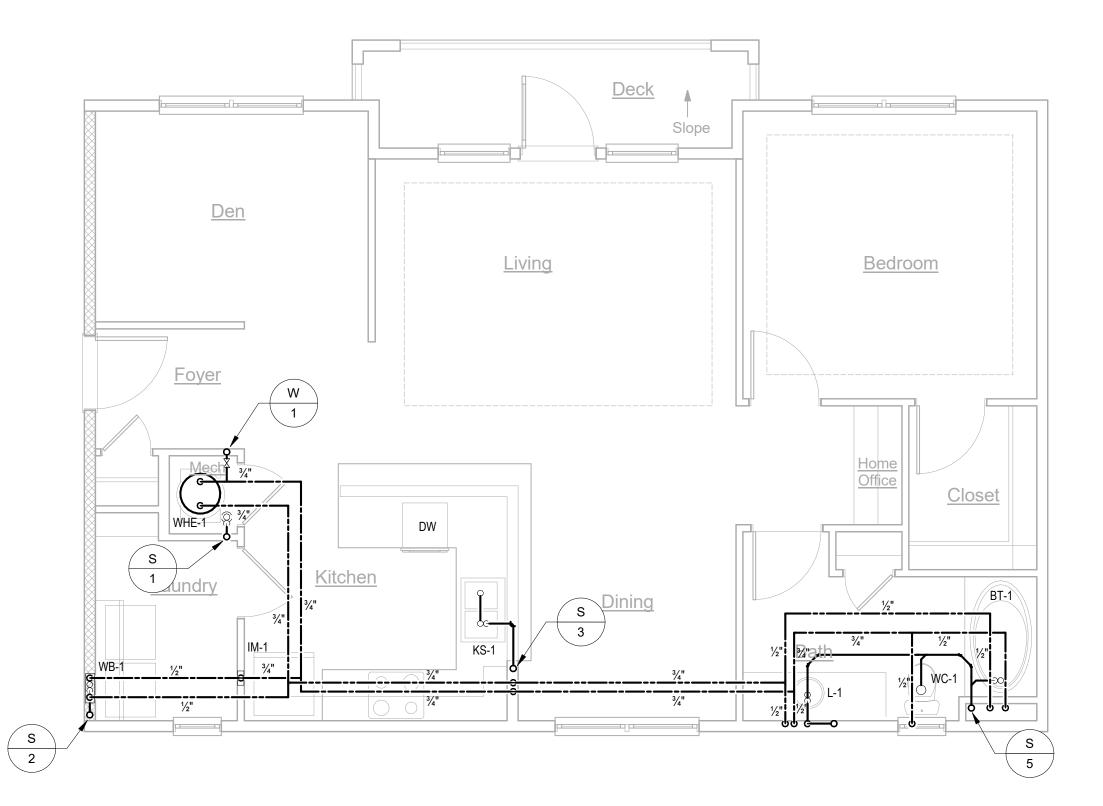


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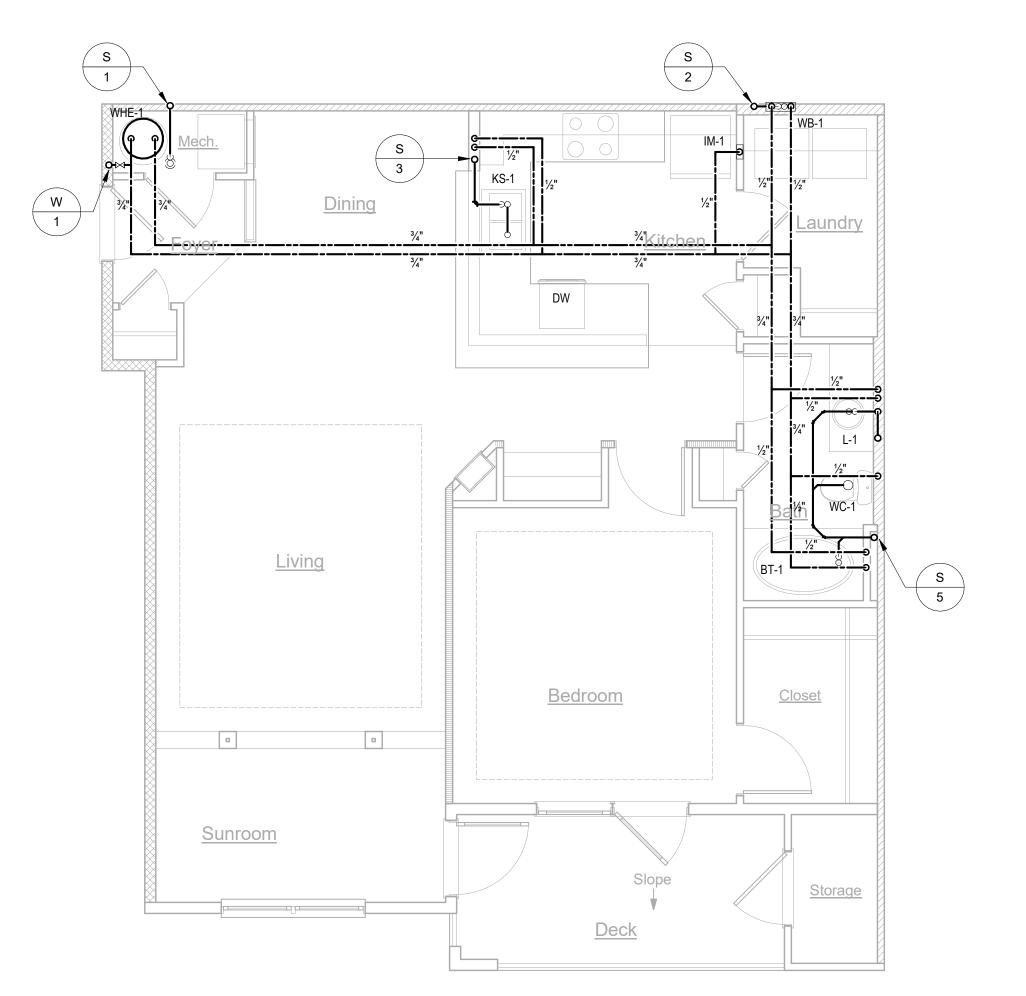
P-L1-UNITS-UNIT A2

| Scale: 1/4" = 1'-0"



P-L1-UNITS-UNIT A3

Scale: 1/4" = 1'-0



P-L1-UNITS-UNIT A1

| Scale: 1/4" = 1'-0"



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Ft. Clarke, Florida

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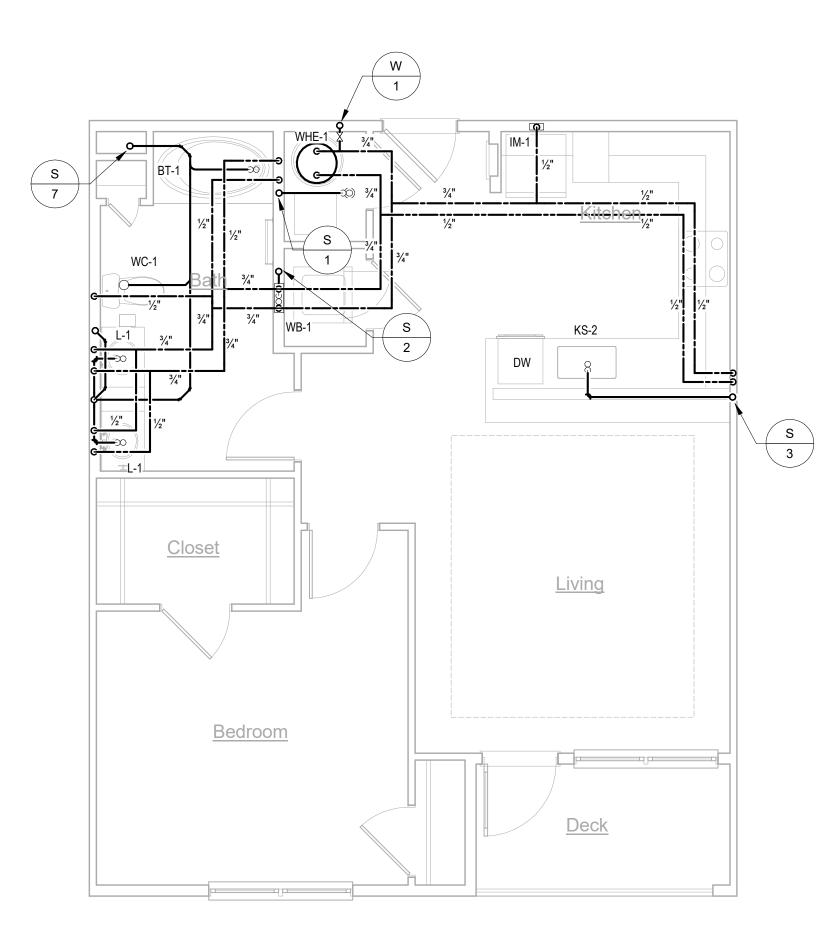
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Sheet Title: UNIT PLANS

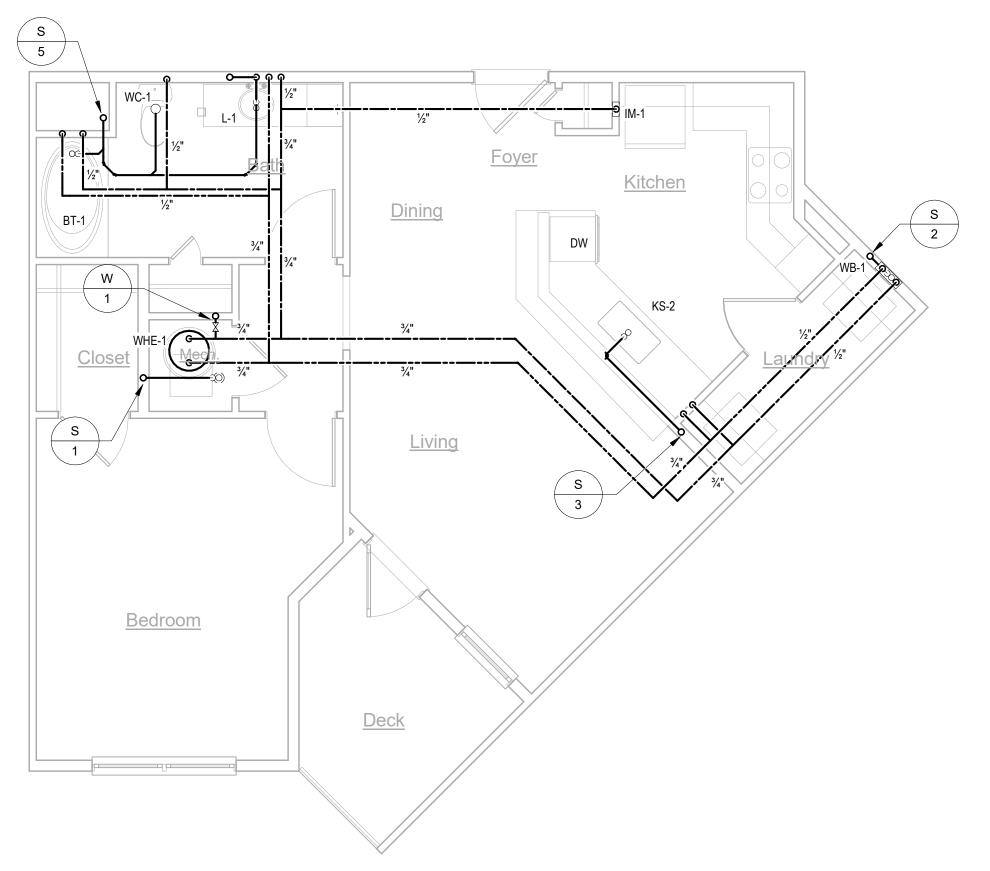
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September 30, 2022

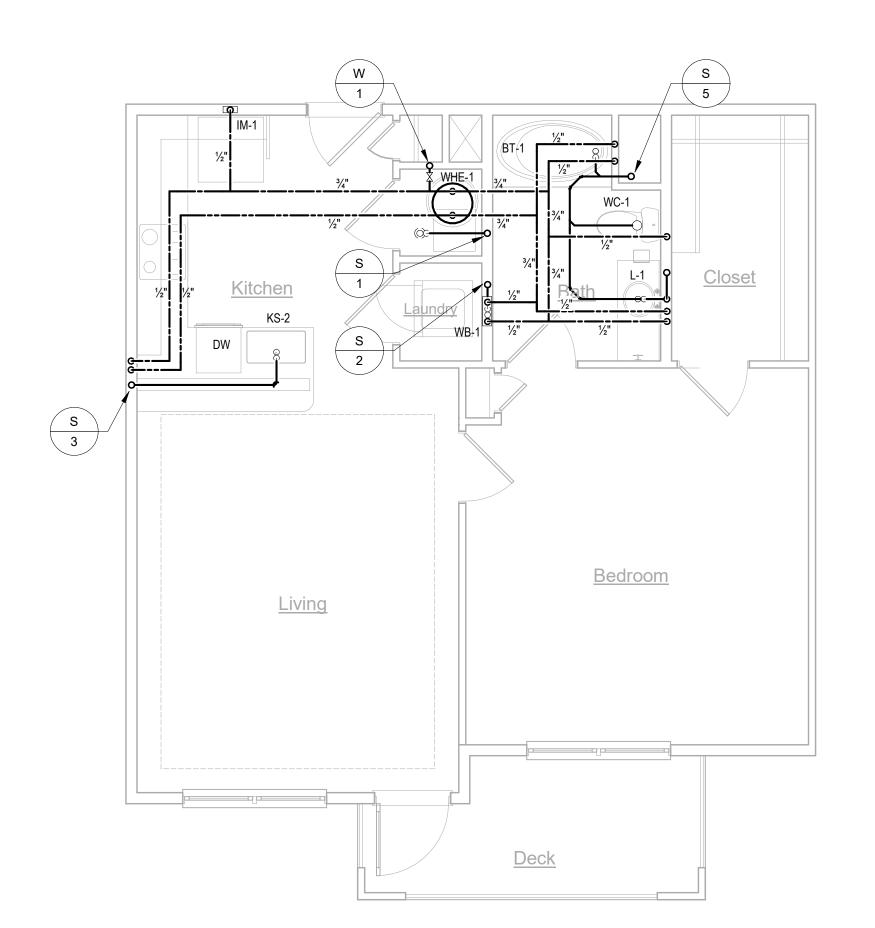
Sheet Number:



P-L1-UNITS-UNIT A5 Scale: 1/4" = 1'-0"



P-L1-UNITS-UNIT A6 9 P-L1-UNIT
| Scale: 1/4" = 1'-0"



P-L1-UNITS-UNIT A4 Scale: 1/4" = 1'-0"

> Jordan & Skala Engineers 4275 Shackleford Road, Suite 200 ● Norcross, GA 30093 p. 770.447.5547 ● f. 770.448.0262

> > Project Number: 22010515

Drawn By: Author Checked By: Checker

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Construction Documents -Progress Set Lullwater at Ft. Clarke Apartments

Ft. Clarke, Florida

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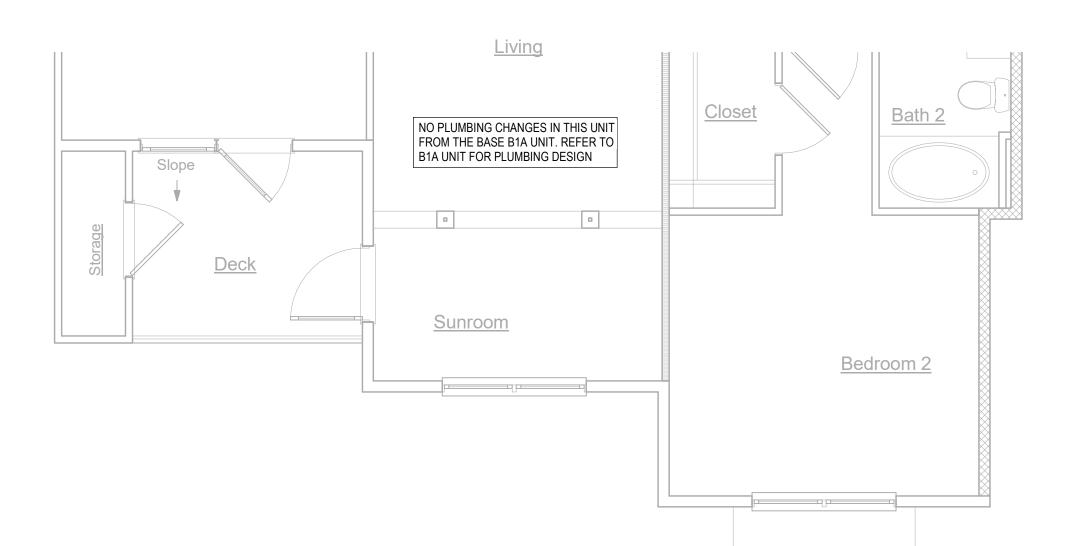
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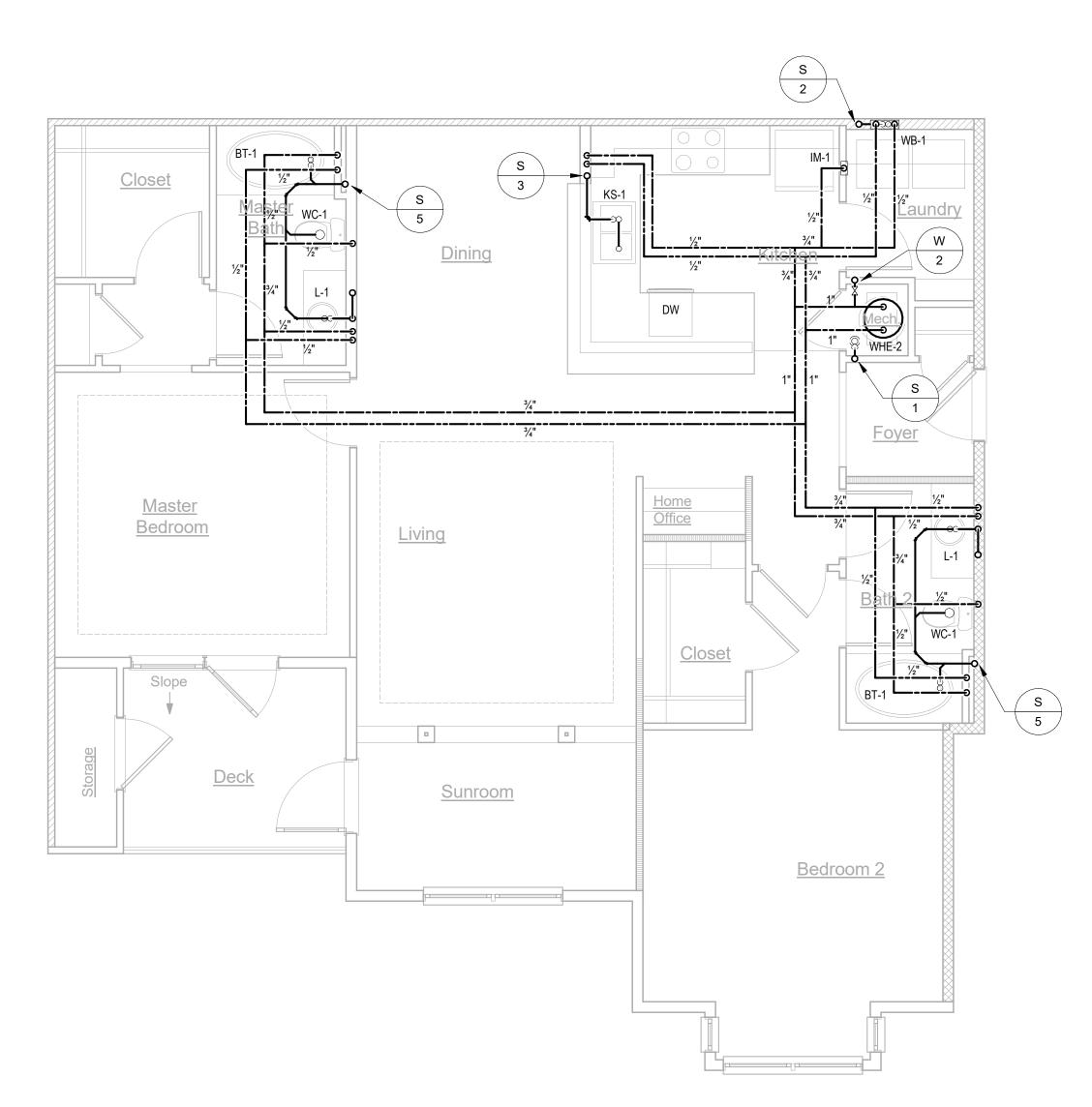
Date:

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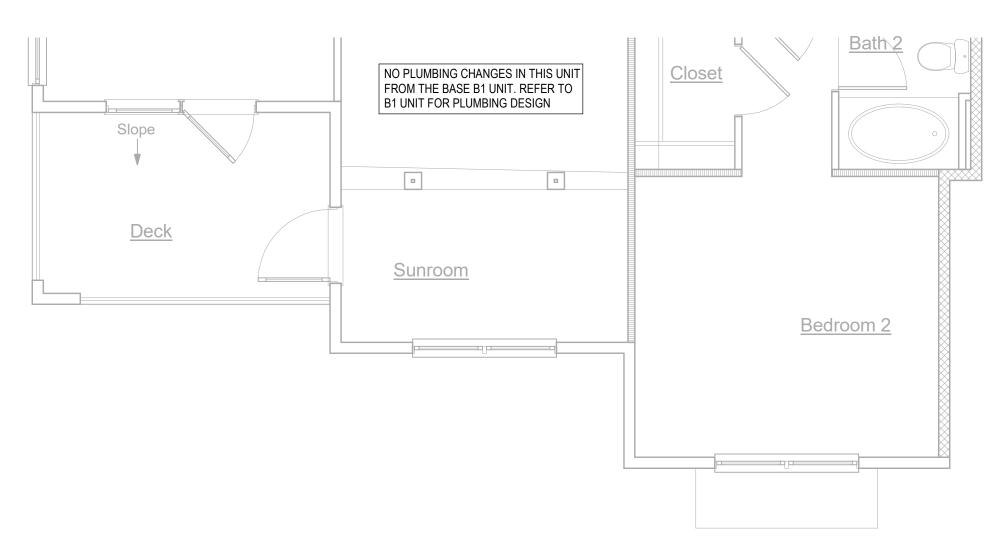
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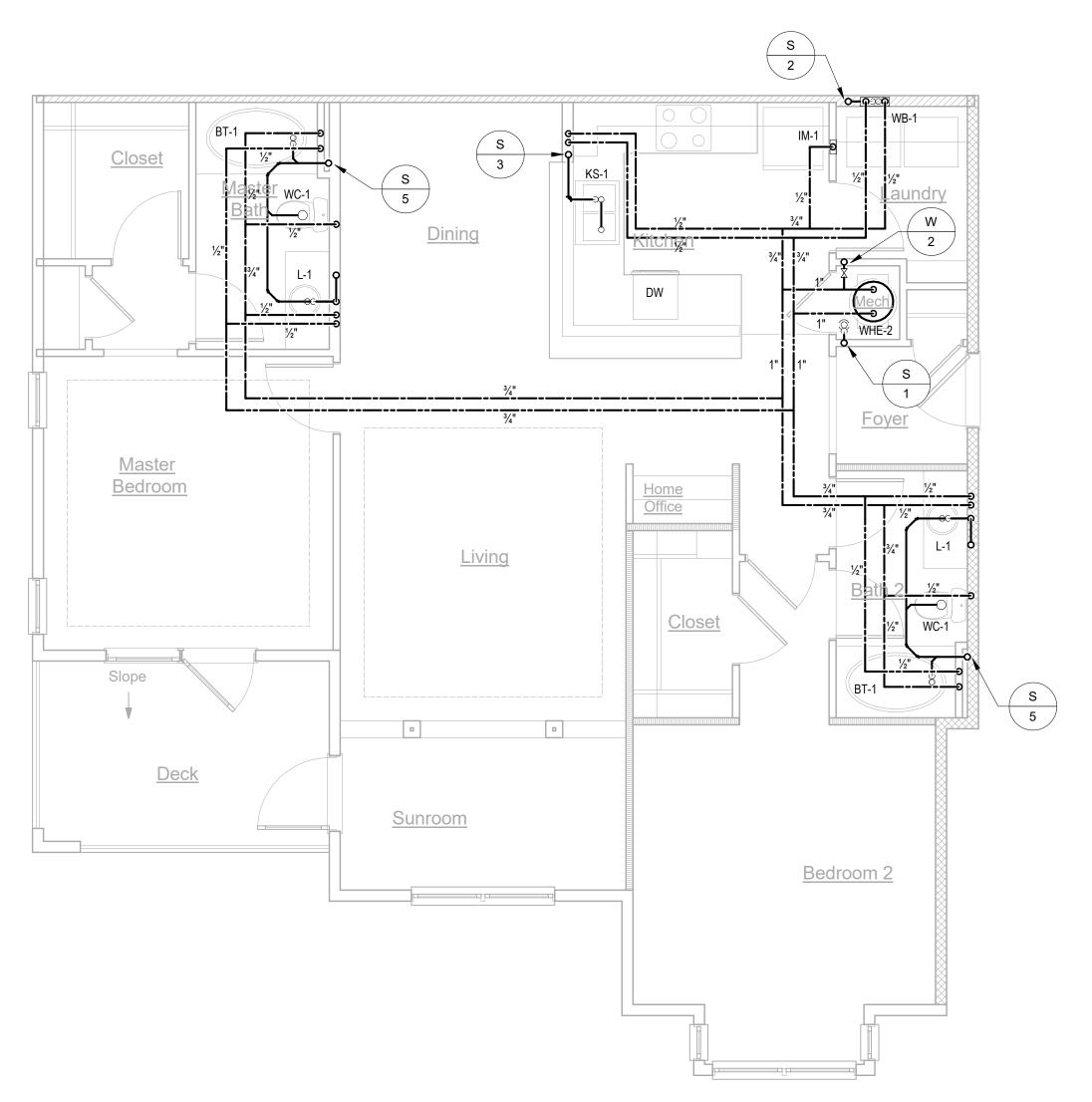
P-L1-UNITS-UNIT B1A-G



P-L1-UNITS-UNIT B1A



P-L1-UNITS-UNIT B1-G 2 P-L1-UNII
Scale: 1/4" = 1'-0"



P-L1-UNITS-UNIT B1



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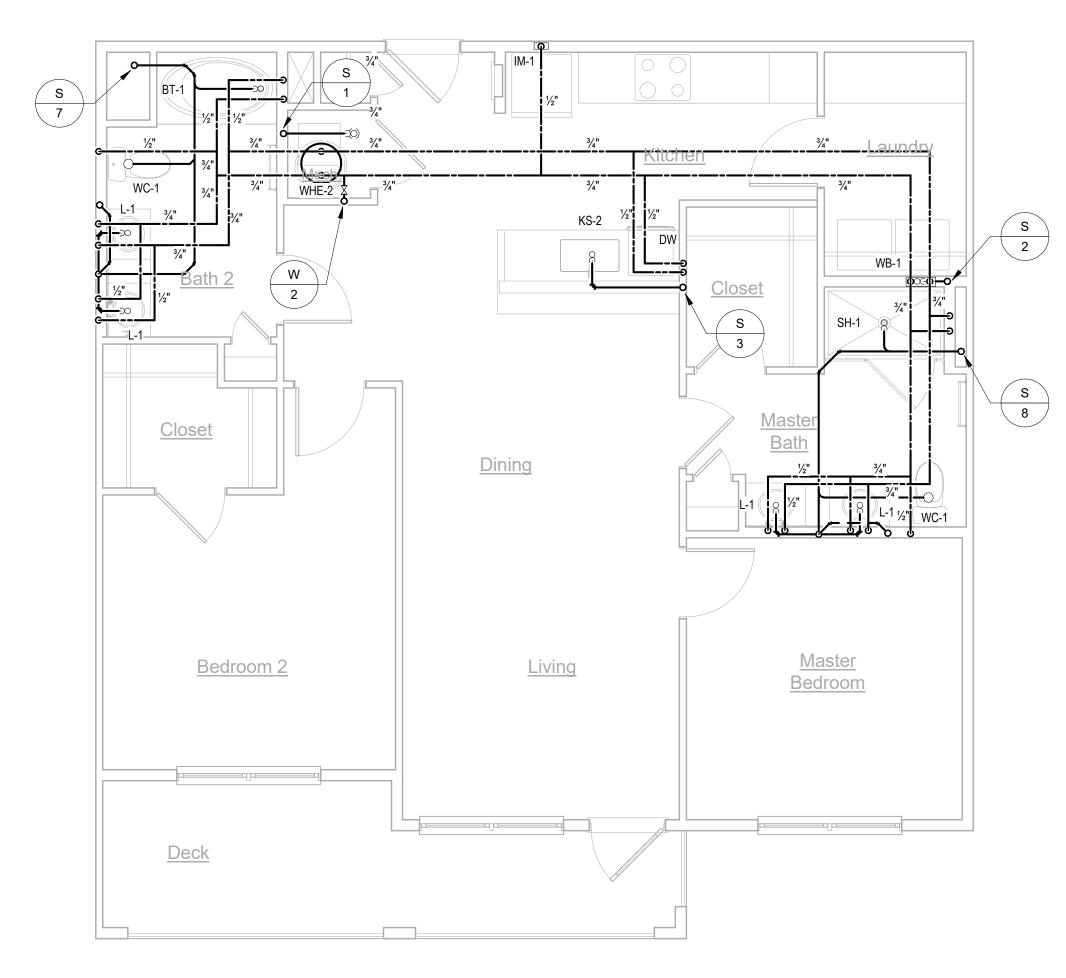
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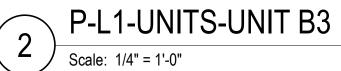
September 30, 2022

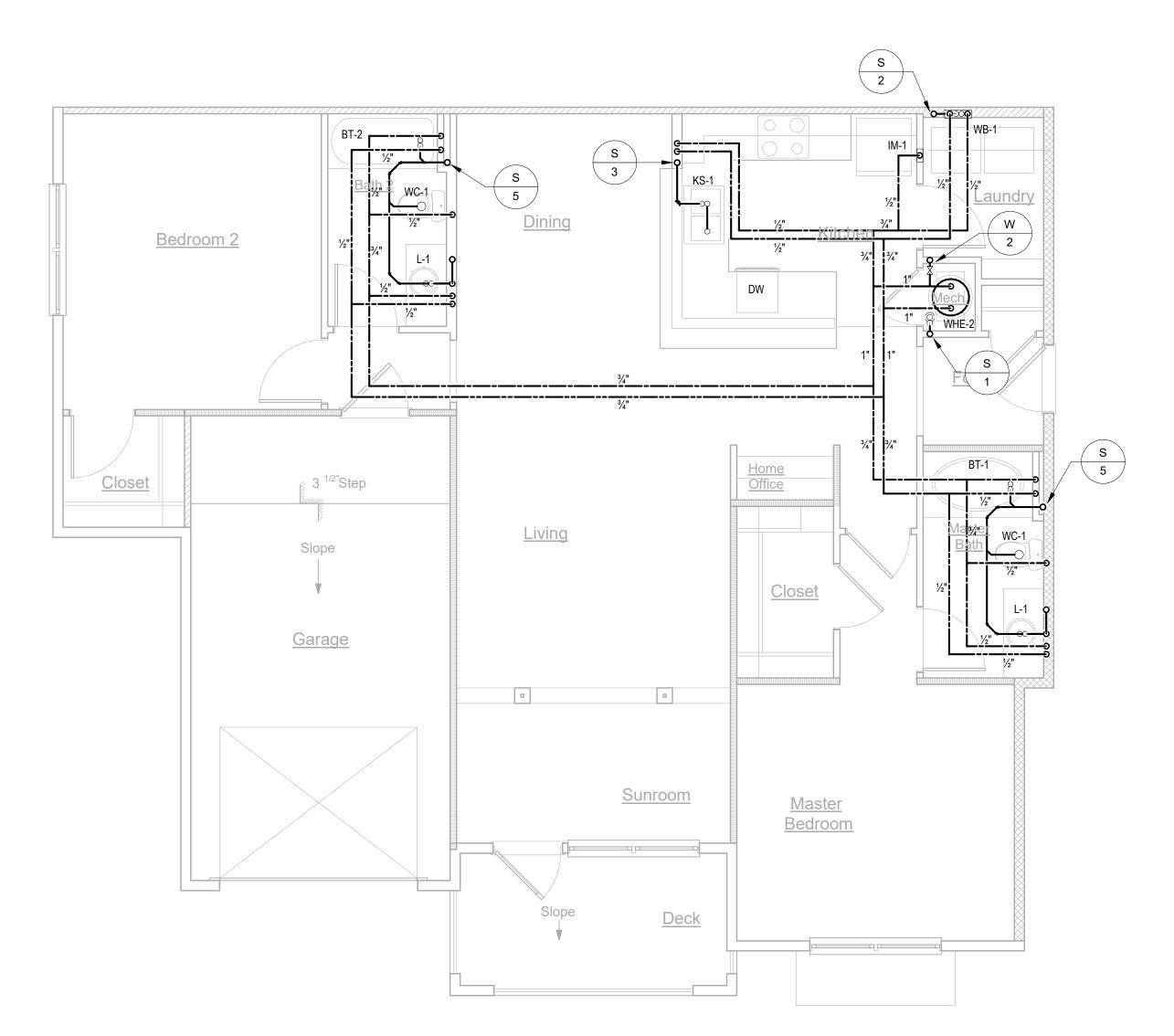
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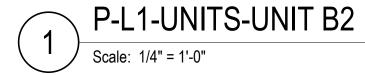
P4.03

Jordan & Skala Engineers 4275 Shackleford Road, Suite 200 ● Norcross, GA 30093 p. 770.447.5547 ● f. 770.448.0262 Drawn By: Author Checked By: Checker Project Number: 22010515













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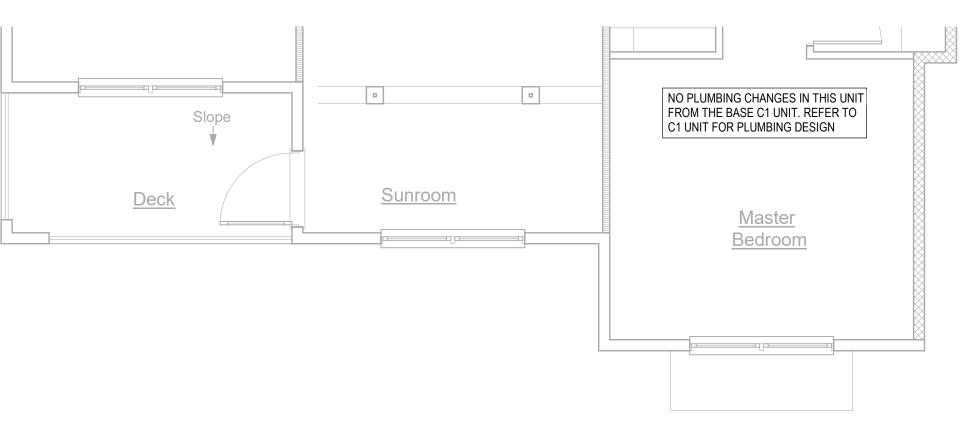
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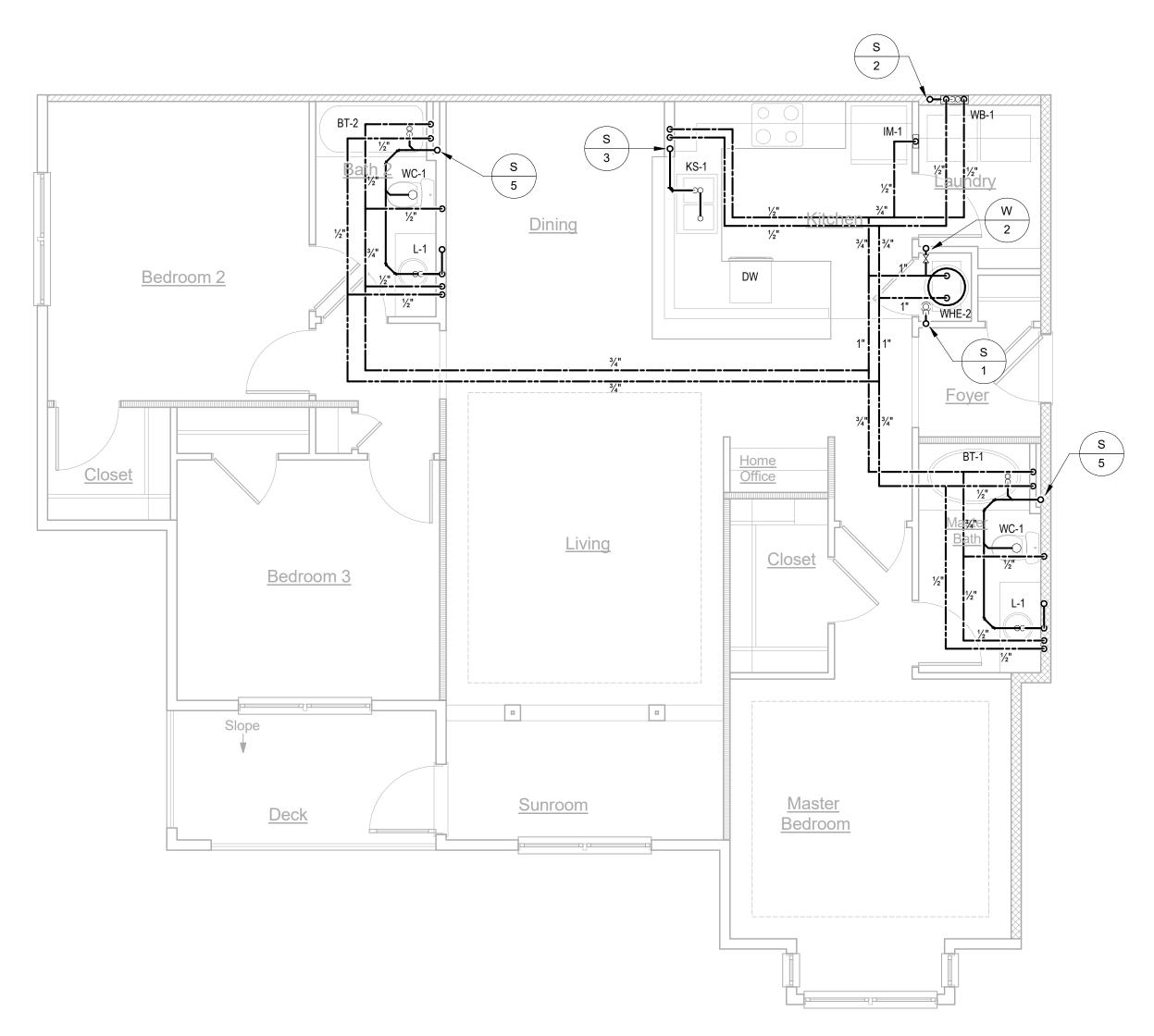
Date:

September 30, 2022

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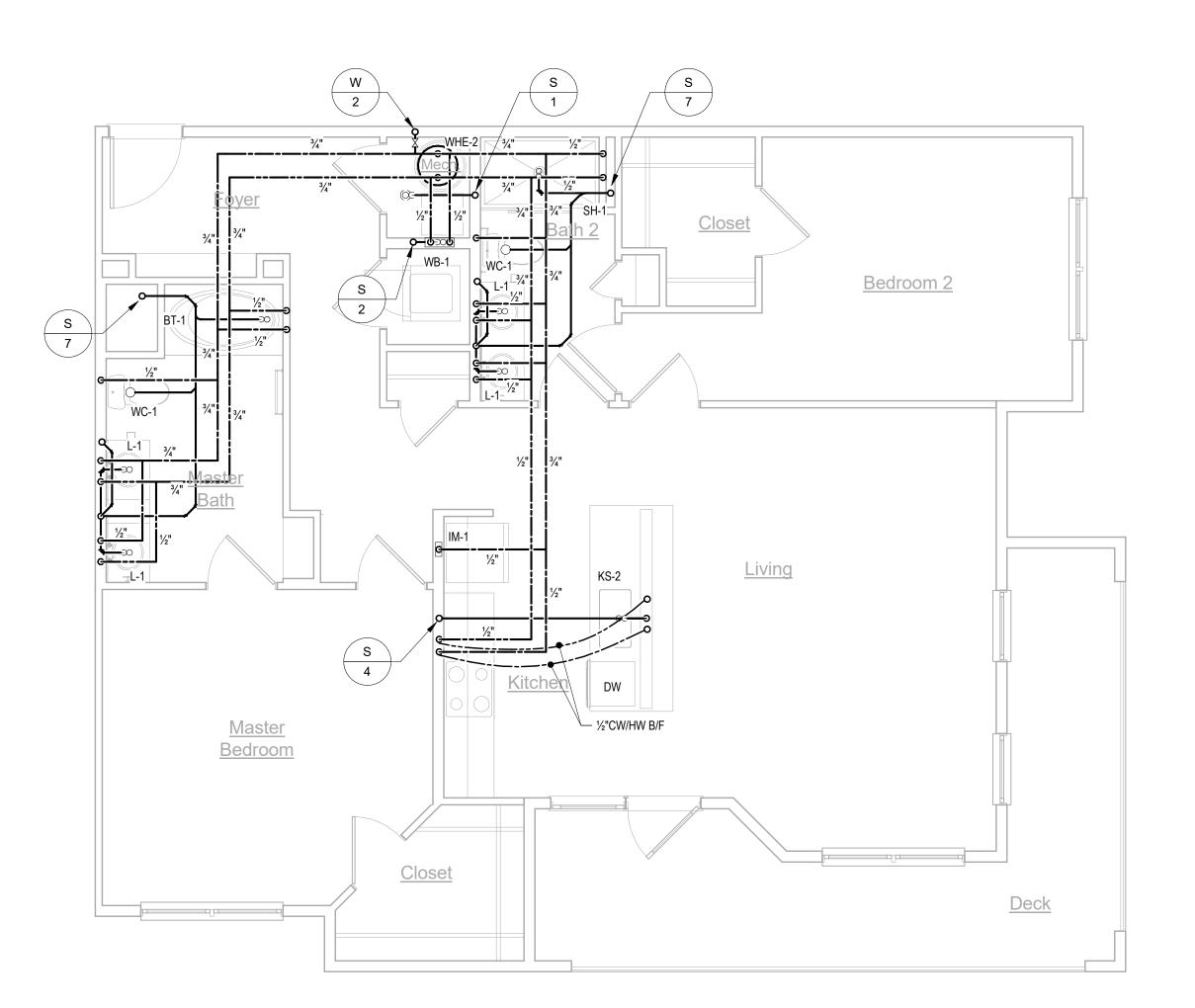
9 P-L1-UNITS-UNIT C1-G
| Scale: 1/4" = 1'-0"



P-L1-UNITS-UNIT C1

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

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



P-L1-UNITS-UNIT B4

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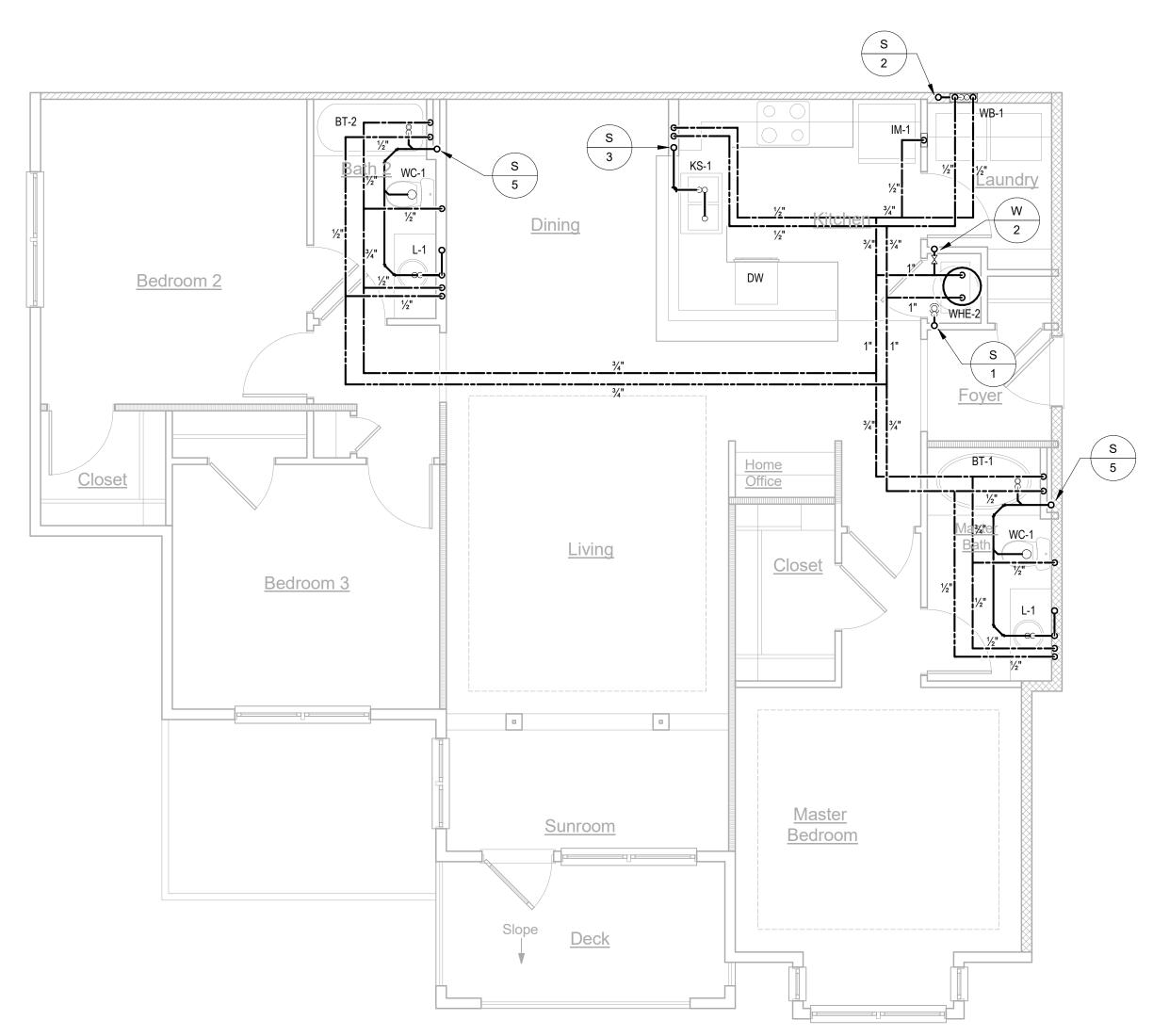
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P-L1-UNITS-UNIT C1A

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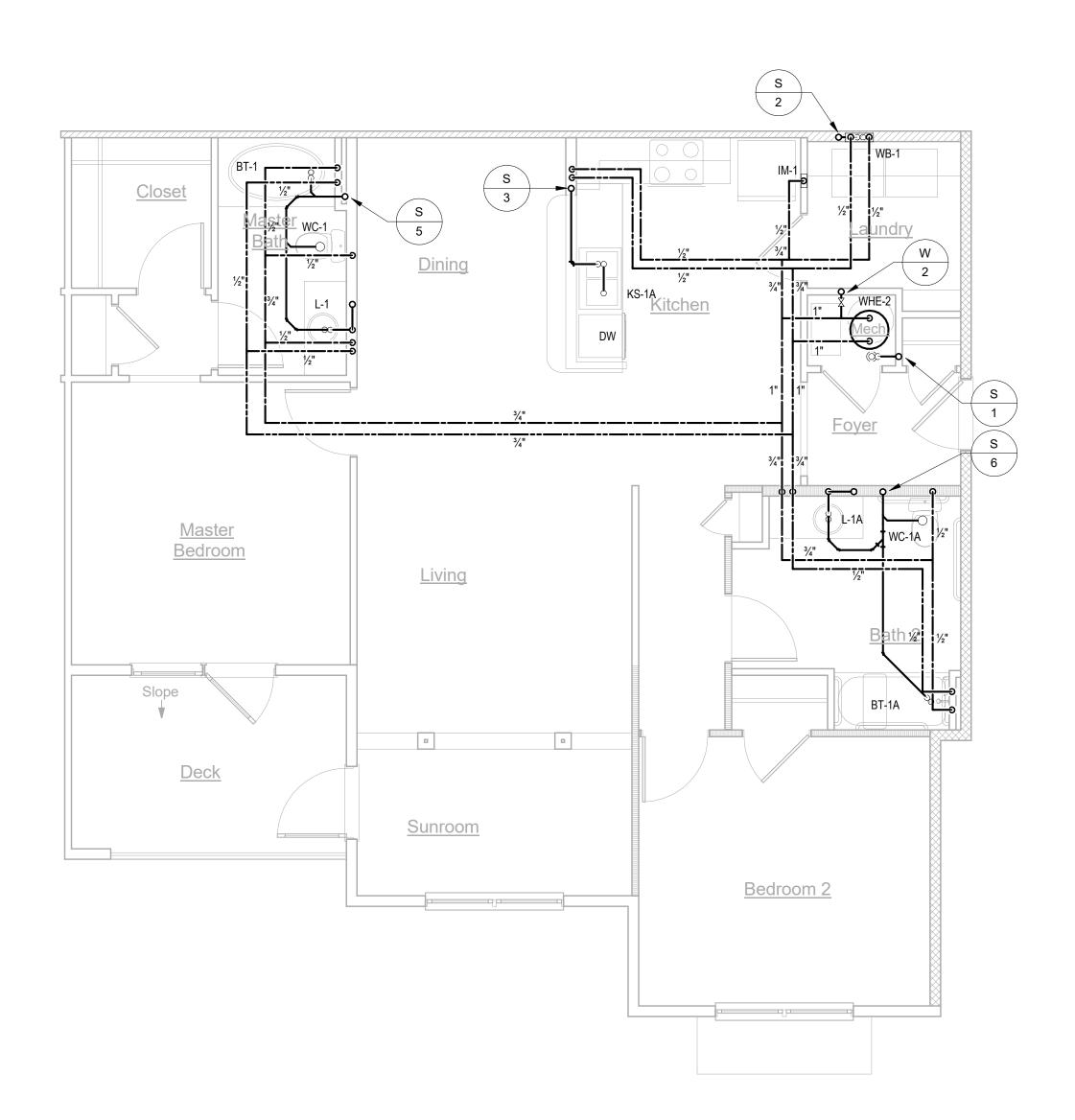
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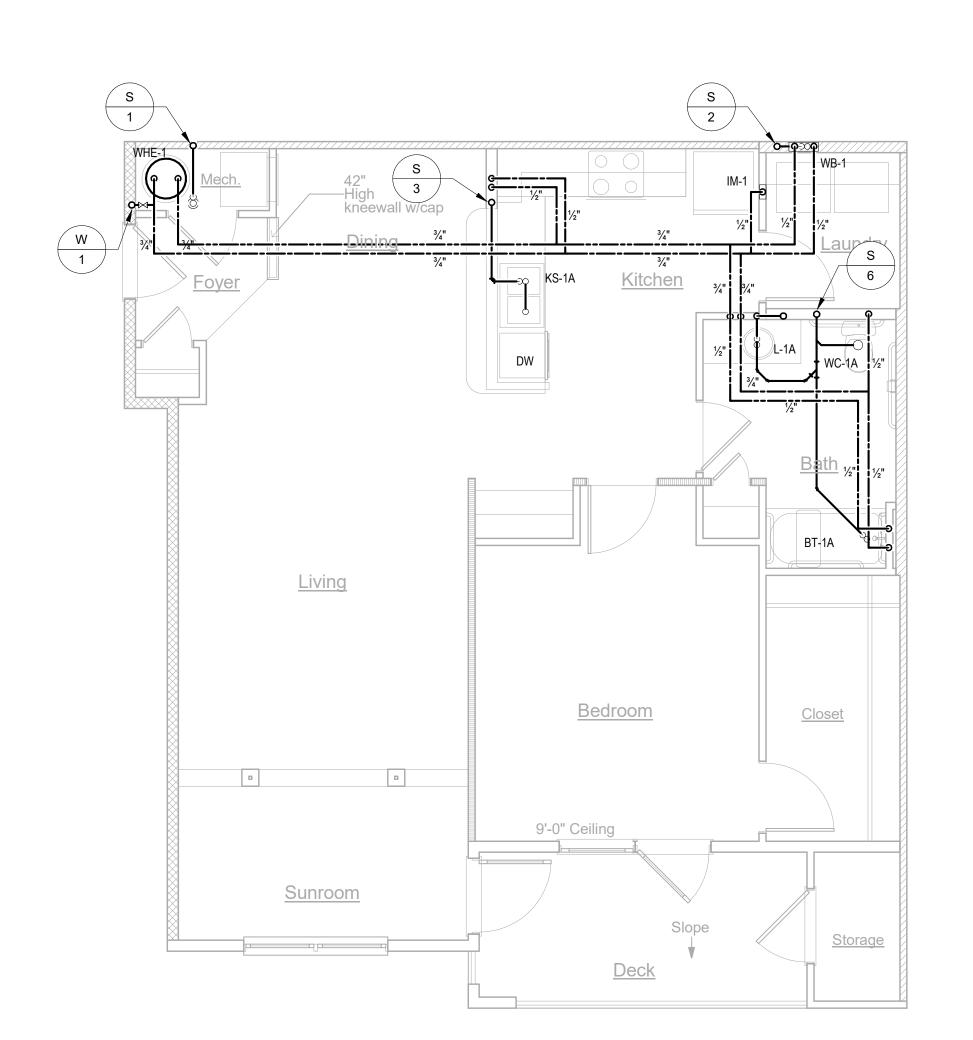
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