

CHERAW HOUSING AUTHORITY  
SEWER LINE REPLACEMENT & INTERIOR  
RENOVATIONS

CONSTRUCTION DOCUMENTS  
JUNE 19, 2025

PROJECT NO: 04-2024-07.01

BROWNSTONE

1330 Lady Street, Suite 500, Columbia, SC 29201  
Phone: 803.376.6044 URL: BstoneGroup.com

STATE OF SOUTH CAROLINA  
HUNTER ANDERSON WICKENZ  
Columbia, SC  
No. 9118  
REGISTERED ARCHITECT

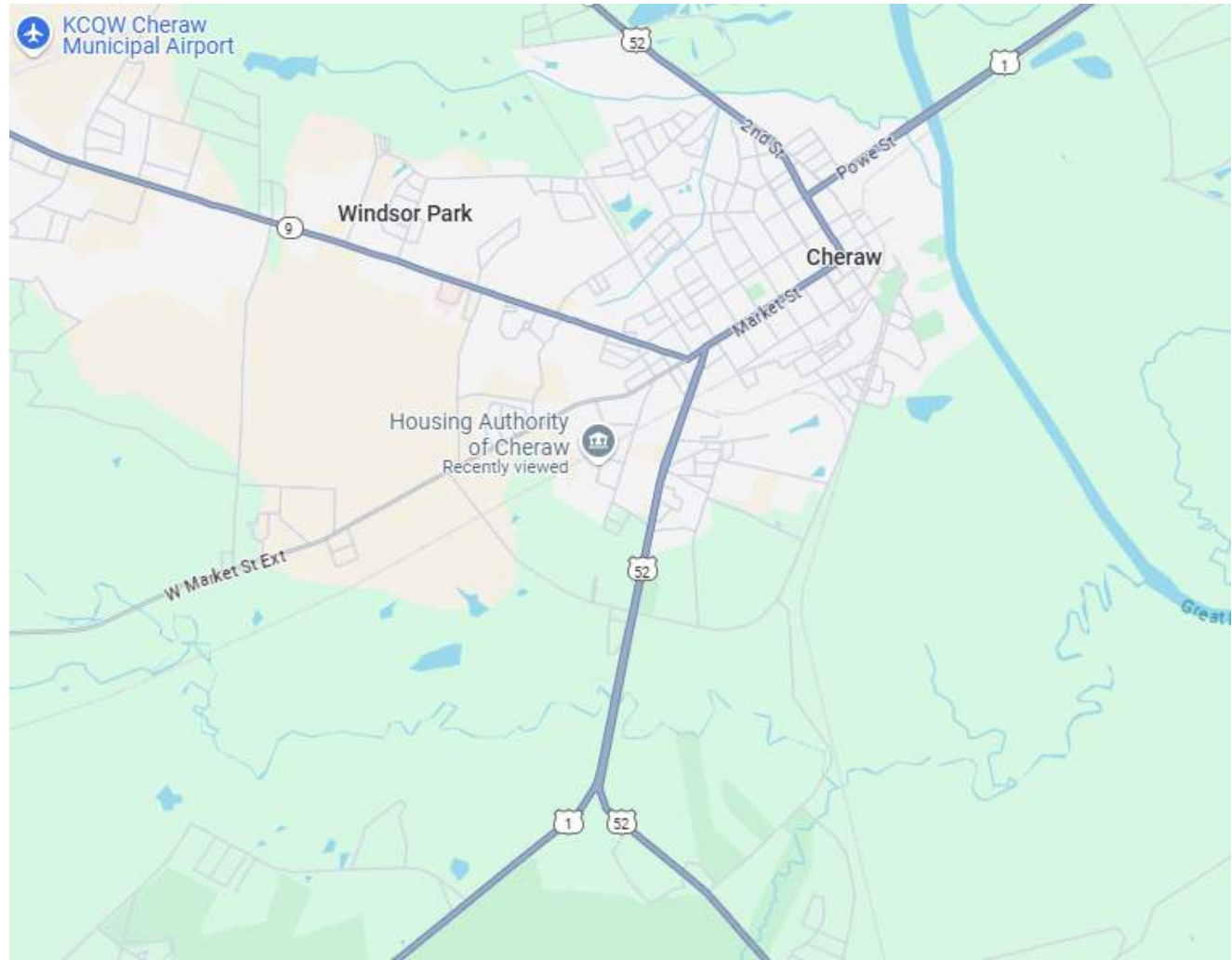
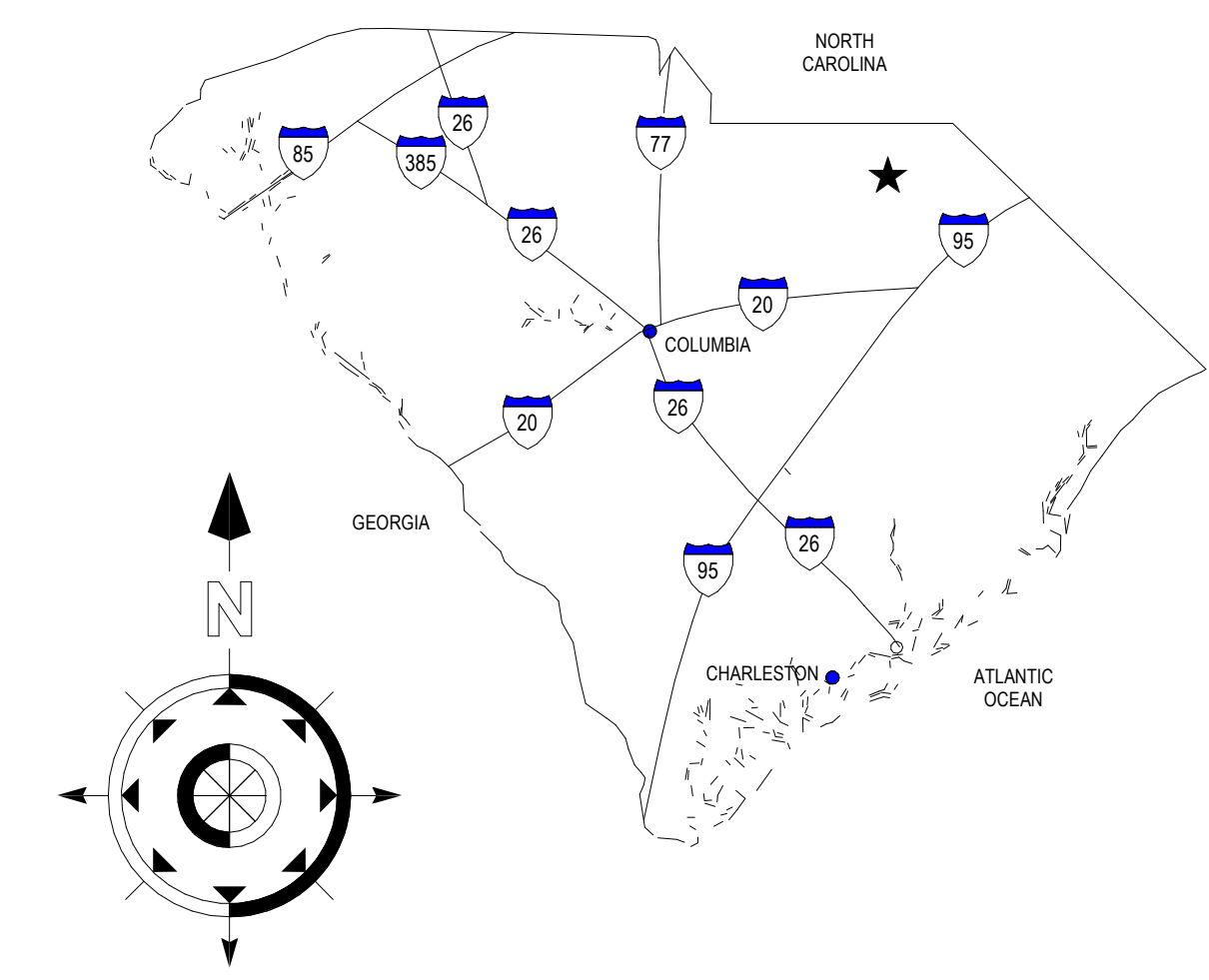
STATE OF SOUTH CAROLINA  
BROWNSTONE  
Columbia, SC  
No. 100797  
REGISTERED ARCHITECT

CHERAW HOUSING AUTHORITY  
SEWER LINE REPLACEMENT &  
INTERIOR RENOVATIONS  
Enter address here  
Address Line 2

| Project Number   | Date          | Description | Date |
|--|---------------|-------------|------|
| 04-2024-07.01  | JUNE 19, 2025 |             |      |
| This drawing and the design information contained herein are the property of The Brouseau Group, Inc. The reproduction, copying, or use of this drawing without the written consent of The Brouseau Group, Inc. is prohibited and may be subject to legal action. Copyright © 2001 The Brouseau Group. |               |             |      |

TITLE SHEET, INDEX OF  
DRAWINGS, LOCATION MAP,  
SYMBOLS, ABBREVIATIONS

Drawing No.  
G001



DIZZY GILLESPIE APARTMENTS



MATERIAL DESIGNATIONS

|  |                                |  |                  |
|--|--------------------------------|--|------------------|
|  | COMPACTED EARTH                |  | WOOD (ROUGH)     |
|  | POUROUS FILL (STONE OR GRAVEL) |  | WOOD (FINISHED)  |
|  | CONCRETE                       |  | PLYWOOD          |
|  | CONCRETE MASONRY UNIT          |  | BATT INSULATION  |
|  | BRICK                          |  | GYPSUM BOARD     |
|  | SAND, PLASTER, CEMENT, GROUT   |  | RIGID INSULATION |
|  | STEEL                          |  | STONE VENEER     |

ABBREVIATIONS

|        |  |        |                                  |
|--------|--|--------|----------------------------------|
| @      | AT   | MO     | MASONRY OPENING                  |
| AFF    | ABOVE FINISH FLOOR                         | NIC    | NOT IN CONTRACT                  |
| ALUM   | ALUMINUM                                   | NOM    | NOMINAL                          |
| ARCH   | ARCHITECTURAL                              | NTS    | NOT TO SCALE                     |
| BLKG   | BLOCKING                                   | OC     | ON CENTER                        |
| CFCI   | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | OD     | OUTSIDE DIAMETER                 |
| CJ     | CONTROL JOINT                              | OFCI   | CONTRACTOR INSTALLED             |
| CL     | CENTER LINE                                | OFOI   | OWNER FURNISHED, OWNER INSTALLED |
| CLG    | CEILING                                    | OPNG   | OPENING                          |
| CMU    | CONCRETE MASONRY UNIT                      | OPP    | OPPOSITE                         |
| CONC   | CONCRETE                                   | P      | PAINT                            |
| CONT   | CONTINUOUS                                 | PL     | PLATE, PROPERTY LINE             |
| CTR    | CENTER                                     | PR     | PAIR                             |
| DIA    | DIAMETER                                   | PREFIN | PREFINISHED                      |
| DS     | DOWNSPOUT                                  | R, RAD | RADIUS                           |
| DWG    | DRAWING                                    | RD     | ROOF DRAIN                       |
| EA     | EACH                                       | REQD   | REQUIRED                         |
| EJ     | EXPANSION JOINT                            | RO     | ROUGH OPENING                    |
| EL     | ELEVATION                                  | SF     | SQUARE FEET                      |
| ELEC   | ELECTRICAL                                 | SIM    | SIMILAR                          |
| ELEV   | ELEVATOR                                   | SPEC   | SPECIFICATIONS                   |
| EQUIP  | EQUIPMENT                                  | STD    | STANDARD                         |
| EWC    | ELECTRIC WATER COOLER                      | STR    | STRUCTURAL                       |
| EXIST  | EXISTING                                   | SUSP   | SUSPENDED                        |
| EXT    | EXTERIOR                                   | TBD    | TO BE DETERMINED                 |
| FD     | FLOOR DRAIN                                | TBS    | TO BE SELECTED                   |
| FIN    | FINISH                                     | TOP    | TO OF PLATE                      |
| FOF    | FACE OF FINISH                             | TOS    | TOP OF STEEL                     |
| FOS    | FACE OF STUD                               | TYP    | TYPICAL                          |
| FR     | FIRE RETARDANT                             | UNO    | UNLESS NOTED OTHERWISE           |
| FV     | FIELD VERIFY                               | VCT    | VINYL COMPOSITION TILE           |
| GA     | GAUGE                                      | VERT   | VERTICAL                         |
| GYP BD | GYPSUM BOARD                               | W      | WITH                             |
| HM     | HOLLOW METAL                               | WC     | WATER CLOSET                     |
| HORIZ  | HORIZONTAL                                 | WD     | WOOD                             |
| HT     | HEIGHT                                     | WR     | WATER RESISTANT                  |
| HVAC   | HEATING VENTILATION AIR-CONDITIONING       | WWF    | WELDED WIRE FABRIC               |
| ID     | INSIDE DIAMETER                            |        |                                  |
| INSUL  | INSULATION                                 |        |                                  |
| JT     | JOINT                                      |        |                                  |
| L      | ANGLE                                      |        |                                  |
| LAV    | LAVATORY                                   |        |                                  |
| MAX    | MAXIMUM                                    |        |                                  |
| MECH   | MECHANICAL                                 |        |                                  |
| MFR    | MANUFACTURER                               |        |                                  |
| MIN    | MINIMUM                                    |        |                                  |

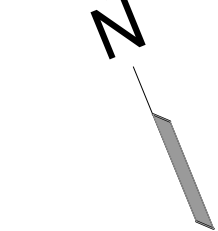
ARCHITECTURAL SYMBOLS

|                                     |   |
|-------------------------------------|---|
| <b>DRAWING TITLE REFERENCE</b>      | <b>ROOM TAG REFERENCE</b>               |
|                                     |   |
| <b>PLAN DETAIL REFERENCE</b>        | <b>DOOR TAG REFERENCE</b>               |
|                                     |   |
| <b>BUILDING SECTION REFERENCE</b>   | <b>WINDOW / LOUVER TAG REFERENCE</b>    |
|                                     |   |
| <b>WALL SECTION REFERENCE</b>       | <b>CEILING DETAIL REFERENCE</b>         |
|                                     |   |
| <b>EXTERIOR ELEVATION REFERENCE</b> | <b>INTERIOR PARTITION TAG REFERENCE</b> |
|                                     |   |
| <b>INTERIOR ELEVATION REFERENCE</b> | <b>ASSEMBLY TAG REFERENCE</b>           |
|                                     |   |
|                                     | <b>REVISION CLOUD REFERENCE</b>         |
|                                     |   |

ADA / ANSI 117.1 MANEUVERING CLEARANCES

|   |  |  |                                   |
|---|--|--|-----------------------------------|
| <b>GENERAL NOTES:</b><br>MANEUVERING CLEARANCES SHOWN BELOW ARE REQUIRED THROUGHOUT THE PROJECT.<br>PROVIDE DIMENSIONS AND CLEARANCES AT ALL DOORS. CONTRACTOR SHALL REVIEW FIELD LAYOUT AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTOR'S EXPENSE. |  |  |                                   |
| <b>PASSAGE WITHOUT DOORS</b>  | <b>CLEAR OPENING WIDTH AT DOORS OR PASSAGE WITHOUT DOORS</b> |  | <b>CIRCULAR TURNING SPACE</b>     |
|   |  |  |                                   |
| <b>PULL SIDE</b>  | <b>PUSH SIDE WITH LATCH ONLY</b>                             | <b>PUSH SIDE WITH LATCH AND CLOSER</b> | <b>TWO HINGED DOORS IN SERIES</b> |
|   |  |  |                                   |
| <b>FRONT APPROACH</b>   | <b>ALL SWING DOORS REGARDLESS OF HARDWARE</b>                | <b>DOOR WITH LATCH ONLY</b>            | <b>DOOR WITH LATCH AND CLOSER</b> |
|   |  |  |                                   |
| <b>HINGE APPROACH</b>   | <b>ALL SWING DOORS REGARDLESS OF HARDWARE</b>                | <b>DOOR WITH LATCH ONLY</b>            | <b>DOOR WITH LATCH AND CLOSER</b> |
|   |  |  |                                   |
| <b>LATCH APPROACH</b>   | <b>DOOR WITH LATCH ONLY</b>                                  | <b>DOOR WITH LATCH AND CLOSER</b>      | <b>DOOR WITH LATCH AND CLOSER</b> |
|   |  |  |                                   |
| <b>RECESSED DOORS AND GATES</b>   | <b>DOOR WITH LATCH ONLY</b>                                  | <b>DOOR WITH LATCH AND CLOSER</b>      | <b>DOOR WITH LATCH AND CLOSER</b> |
|   |  |  |                                   |
| <b>ALL SWING DOORS REGARDLESS OF HARDWARE</b>   | <b>DOOR WITH LATCH ONLY</b>                                  | <b>DOOR WITH LATCH AND CLOSER</b>      | <b>DOOR WITH LATCH AND CLOSER</b> |
|   |  |  |                                   |





| GILLESPIE BUILDING SCHEDULE |                    |          |  |
|-----------------------------|--------------------|----------|--|
| TYPE                        | NUMBER OF BEDROOMS | # BLDGS. | DWELLING UNIT  |
| E                           | 1 BEDROOM UNITS    | 1        | 1336   |
| G                           | 2 BEDROOM UNITS    | 6        | 1305, 1307, 1355, 1363, 1377, 1380, 1382, 1389,                            |
| H                           | 2 BEDROOM UNITS    |          |  |
| I                           | 3 BEDROOM UNITS    | 10       | 57, 73, 83, 85, 1320, 1340, 1346, 1348, 1354, 1358, 1360, 1374, 1383, 1399 |
| J                           | 4 BEDROOM UNITS    | 5        | 91, 95, 1325, 1349, 1369, 1371   |
| K                           | 5 BEDROOM UNITS    | 1        | 1368   |
| OFF.                        |                    | 1        |  |
| COMM.                       |                    |          |  |
| TOTALS                      |                    | 25       | 30   |

| GILLESPIE BUILDING SCHEDULE |                    |          |  |
|-----------------------------|--------------------|----------|--|
| TYPE                        | NUMBER OF BEDROOMS | # BLDGS. | DWELLING UNIT  |
| E                           | 1 BEDROOM UNITS    | 1        | 1336   |
| G                           | 2 BEDROOM UNITS    | 6        | 1305, 1307, 1355, 1363, 1377, 1380, 1382, 1389,                            |
| H                           | 2 BEDROOM UNITS    |          |  |
| I                           | 3 BEDROOM UNITS    | 10       | 57, 73, 83, 85, 1320, 1340, 1346, 1348, 1354, 1358, 1360, 1374, 1383, 1399 |
| J                           | 4 BEDROOM UNITS    | 5        | 91, 95, 1325, 1349, 1369, 1371   |
| K                           | 5 BEDROOM UNITS    | 1        | 1368   |
| OFF.                        |                    | 1        |  |
| COMM.                       |                    |          |  |
| TOTALS                      |                    | 25       | 30   |

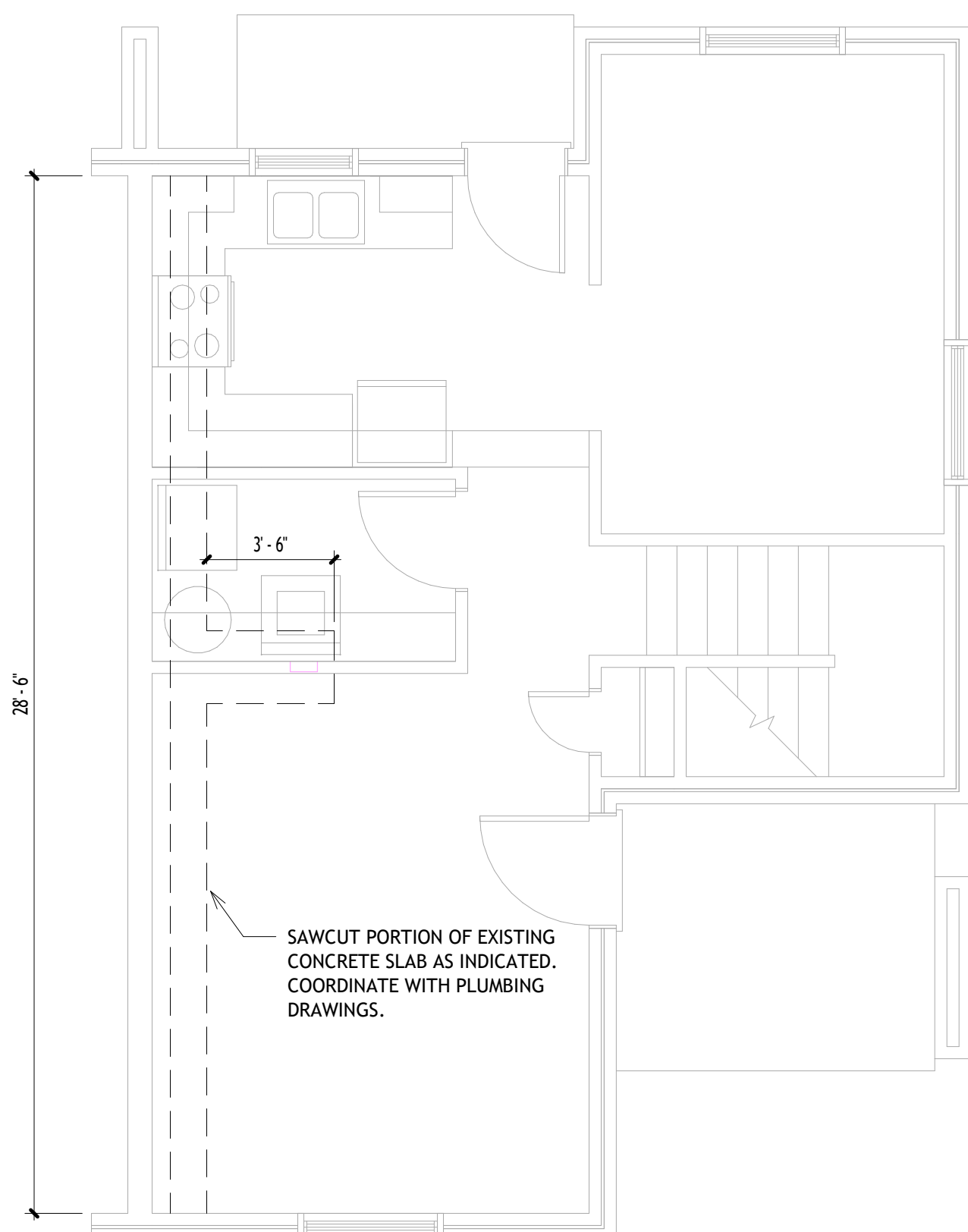
|     |  |                                |
|-----|--|--------------------------------|
| No. | Description  | Date                           |
|     | The design and the design<br>thereon are the property of<br>The Boudreaux Group Inc.<br>The reproduction, copying, or<br>distribution of this document without<br>the written consent of The<br>Boudreaux Group Inc. is<br>prohibited and any<br>violation thereof shall be subject<br>to legal action. Copyright ©<br>2001 The Boudreaux Group. | JUNE 19, 2025<br>04-2024-07.01 |

Drawing No.

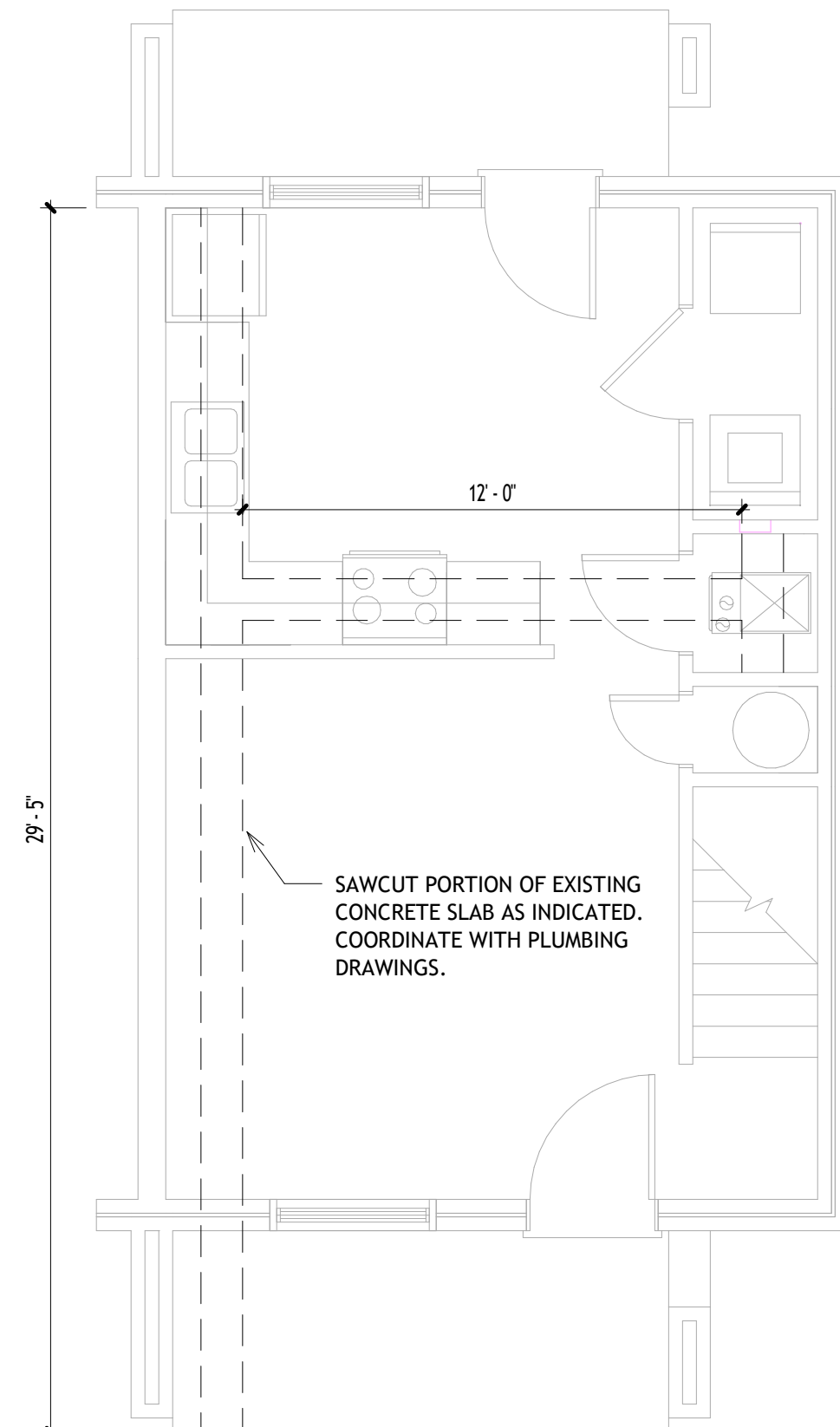
**AS101**

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

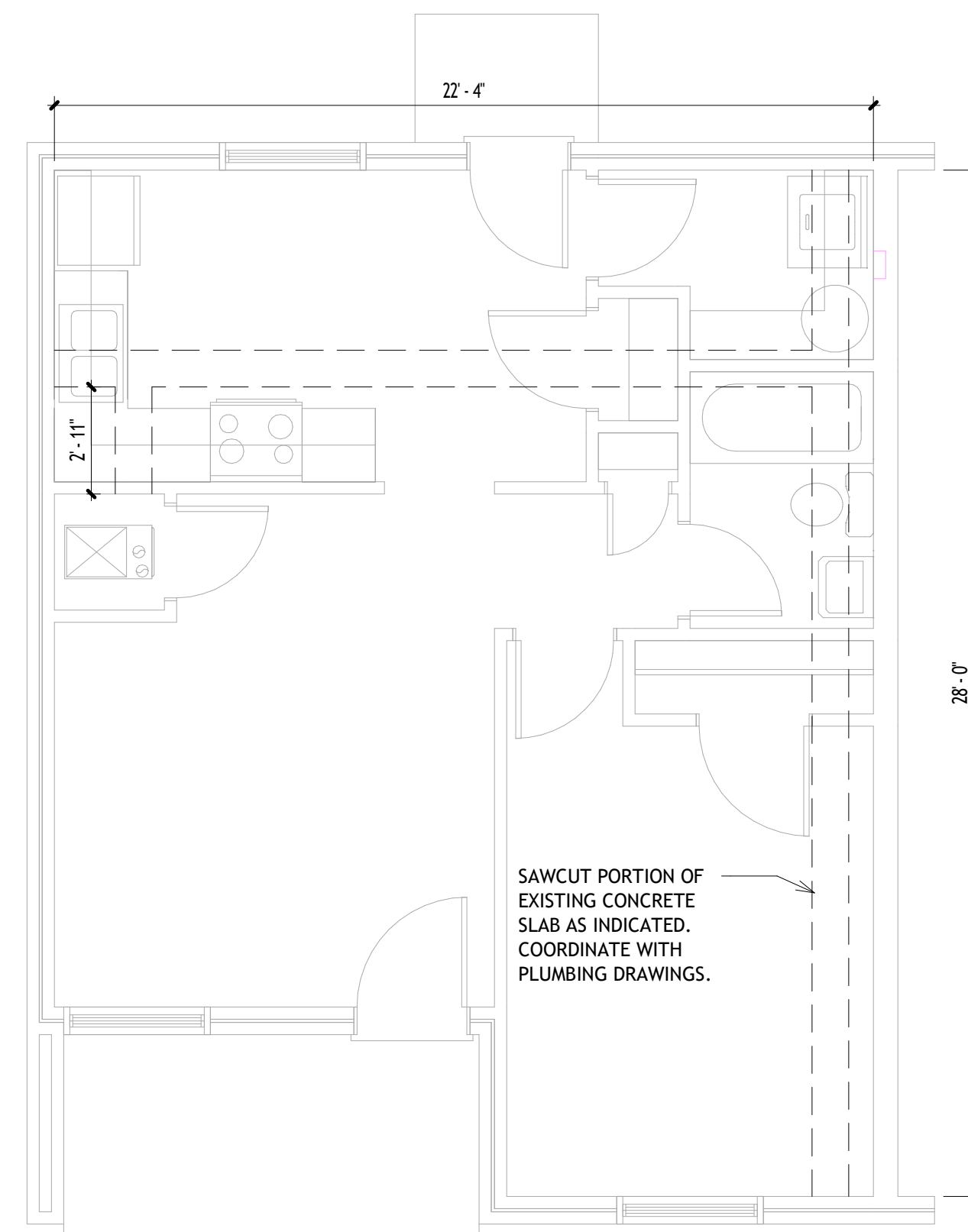
SCALE: 1/4" = 1'-0"



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



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



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

1. REMOVE ONLY THE PORTION OF EXISTING FLOORING AS REQUIRED TO REPLACE THE EXISTING SEWER LINES. PATCH AS REQUIRED TO REPAIR EXISTING, COORDINATE WITH THE PLUMBING CONTRACTOR.
2. REMOVE EXISTING GYPSPUM WALL BOARD FROM THE PLUMBING WALLS AND/OR CEILING TO ALLOW ACCESS TO PIPING THAT IS TO BE REPLACED - SEE PLUMBING DRAWINGS. PROVIDE NEW GYPSPUM WALL BOARD TO MATCH EXISTING.
3. REMOVE EXISTING BATHTUB WALL SURROUNDS AND PROVIDE NEW BATHTUB WALL SURROUNDS. NEW TUB SURROUNDS TO EXTEND TO EXISTING FLOORING.
4. REPLACE SELECTED BATHTUBS. COORDINATE WITH PLUMBING DRAWINGS.
5. REPLACE SELECTED SUBFLOORING AND FLOOR JOISTS AS REQUIRED.
6. REPLACE EXISTING WARD CLOSET, SUPPLY LINE AND STOP. FLOOR FLANGE, WAX RING AND ANCHOR BOLTS. SEE PLUMBING DRAWINGS. REMOVE EXISTING WALL-HUNG LAVATORY AND FAUCET AND STORE FOR REINSTALLATION. REINSTALL EXISTING WALL-HUNG LAVATORY EXISTING WOOD STOPS AND REINSTALL EXISTING WALL-HUNG LAVATORY AND FAUCET WITH NEW SUPPLY LINES AND STOPS AND FLOOR FLANGE. SEE PLUMBING DRAWINGS.
7. REMOVE KITCHEN WALL AND BASE CABINETS, COUNTERTOP, SINK, FAUCET, RANGE, AND REFRIGERATOR. STORE FOR REINSTALLATION. REINSTALL AFTER ALL PLUMBING WORK AND WALL REPAIRS HAVE BEEN COMPLETED. PROVIDE NEW KITCHEN CABS, STOPS AND NEW DRAIN LINE. SEE PLUMBING DRAWINGS.
8. SAWCUT EXISTING CONCRETE FLOOR AS REQUIRED TO REPLACE EXISTING MAIN DRAIN LINE.
9. PAINT ALL NEW AND PREVIOUSLY PAINTED SURFACES.



1330 Lady Street, Suite 500, Columbia, SC 29201  
Phone: 803.376.6044 URL: BstoneGroup.com



Enter address here  
Address Line 2

[illegible]

# 1, 2, & 3 BEDROOM FLOOR PLANS

Drawing No.

# A101





1. REMOVE ONLY THE PORTION OF EXISTING FLOORING AS REQUIRED TO REPLACE THE EXISTING SEWER LINES. PATCH AS REQUIRED TO REPAIR EXISTING, COORDINATE WITH THE PLUMBING CONTRACTOR.
2. REMOVE EXISTING GYPSPUM WALL BOARD FROM THE PLUMBING WALLS AND/OR CEILING TO ALLOW ACCESS TO PIPING THAT IS TO BE REPLACED - SEE PLUMBING DRAWINGS. PROVIDE NEW GYPSPUM BOARD OVER EXISTING WALLS AND CEILING.
3. REMOVE EXISTING BATH TUB WALL SURROUNDS AND PROVIDE NEW BATH TUB WALL SURROUNDS, NEW TUB SURROUNDS TO EXTEND TO THE EXISTING FLOORING.
4. REPLACE SELECTED BATHTUBS. COORDINATE WITH PLUMBING DRAWINGS.
5. REPLACE SELECTED SUBFLOORING AND FLOOR JOISTS AS REQUIRED.
6. REPLACE SELECTED WALL CLOSET, SUPPLY LINE AND STOP, FLOOR FLANGE, WAX RING AND ANCHOR BOLTS. SEE PLUMBING DRAWINGS FOR EXISTING WALL CLOSET, SUPPLY LINE AND STOP. COORDINATE WITH PLUMBING CONTRACTOR FOR REINSTALLATION. PROVIDE NEW 2X6 WOOD BRACE BETWEEN EXISTING WOOD STUDS AND REINSTALL EXISTING WALL-HUNG LAVATORY AND FAUCET WITH NEW SUPPLY LINES AND STOPS AND ANCHOR BOLTS. SEE PLUMBING DRAWINGS.
7. REMOVE KITCHEN WALL AND BASE CABINETS, COUNTERTOP, SINK, FAUCET, RANGE, AND REFRIGERATOR. STORE FOR REINSTALLATION BEHIND LATTER ALL OTHERS. PROVIDE NEW SUPPLY LINES AND STOPS, AND BEEN COMPLETED. PROVIDE NEW SUPPLY LINES AND STOPS, AND NEW DRAIN LINE. SEE PLUMBING DRAWINGS.
8. REPLACE SELECTED CONCRETE FLOOR AS REQUIRED TO REPLACE EXISTING DRAIN LINES. PATCH TO MATCH EXISTING.
9. PAINT ALL NEW AND PREVIOUSLY PAINTED SURFACES.



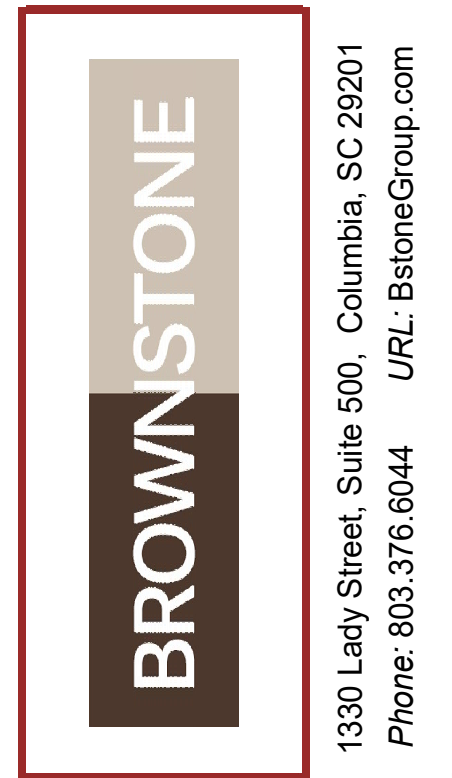
Enter address here  
Address Line 2

| No. | Description   | Date                                    |
|-----|---|---|
|     | This drawing and the design thereon are the property of The Boudreaux Group Inc. The reproduction, copying or distribution of this document without the written consent of The Boudreaux Group Inc. is prohibited and any infringement will be subject to legal action starting from 01-01-2001. The Boudreaux Group, | JUNE 19, 2025<br>Date:<br>04-2024/07 01 |

Drawing Title.

# A102



[illegible]

Drawing No.

**P1**



**WASTE PIPING NOTES:**

1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS and INVERTS OF VENT, SEWER AND GREASE PIPING.
2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES and ELEVATIONS HAVE BEEN CONFIRMED.
3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES and ELEVATIONS BEFORE STARTING WORK.
4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

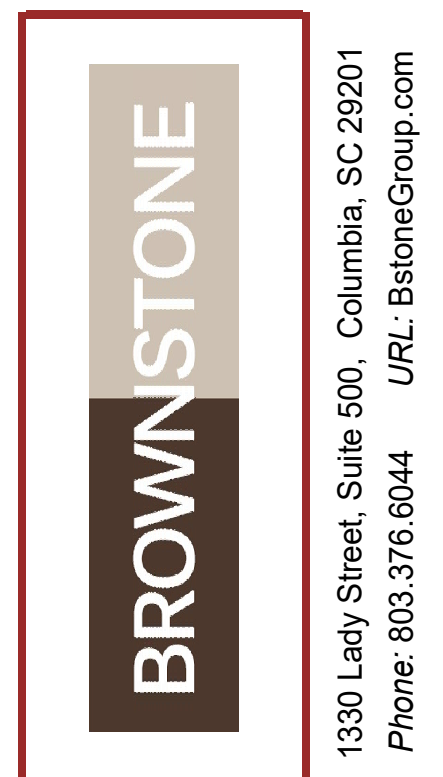
**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.

**SUPPLY LINE NOTE NOTE:**  
**PROVIDE NEW BRAIDED SUPPLY**  
**LINES AND STOPS. BRAIDED SUPPLY**  
**LINES AND STOPS PROVIDED BY**  
**HOUSING AUTHORITY.**

## POINT OF CONNECTION

⊗ = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.





|     |               |  |
|-----|---------------|--|
| No. | Date          |  |
|     | JUNE 19, 2025 | This drawing and the design thereon are the property of The Bourdreaux Group Inc. The reproduction, copying, or use of this drawing without written permission from The Bourdreaux Group Inc. is prohibited and any infringement will be subject to legal action. Copyright © 2025 The Bourdreaux Group Inc. |

Drawing No.

**P2**



**WASTE PIPING NOTES:**

1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS AND INVERTS OF VENT, SEWER AND GREASE PIPING.
2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES and ELEVATIONS HAVE BEEN CONFIRMED.
3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES and ELEVATIONS BEFORE STARTING WORK.
4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

**NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.

## POINT OF CONNECTION

 = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.





**CHERAW HOUSING AUTHORITY  
SEWER LINE REPLACEMENT &  
INTERIOR RENOVATIONS**

Enter address here  
Address Line 2

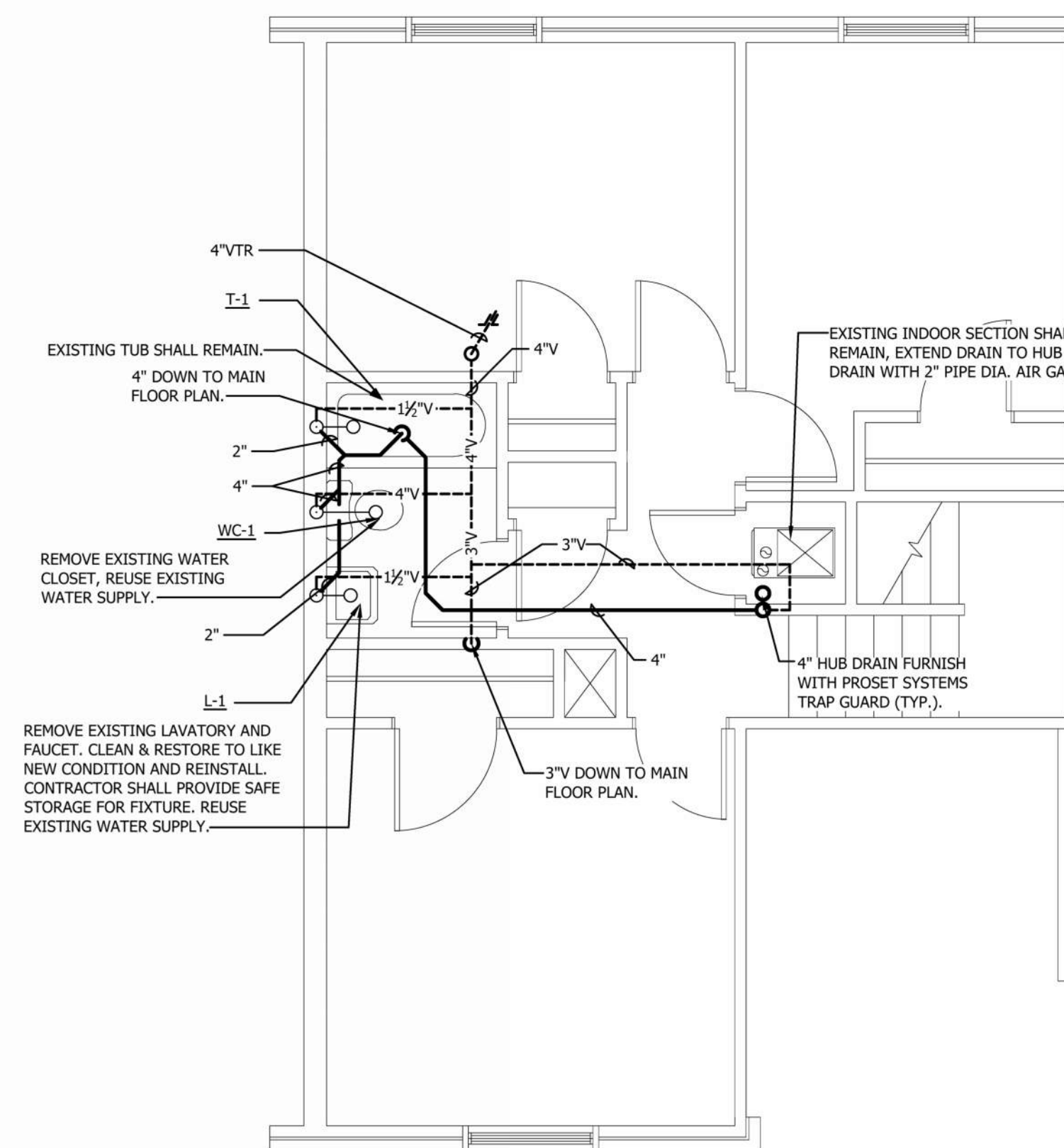
[illegible]

# BUILDING I - SEWER FLOOR PLAN

Drawing Title

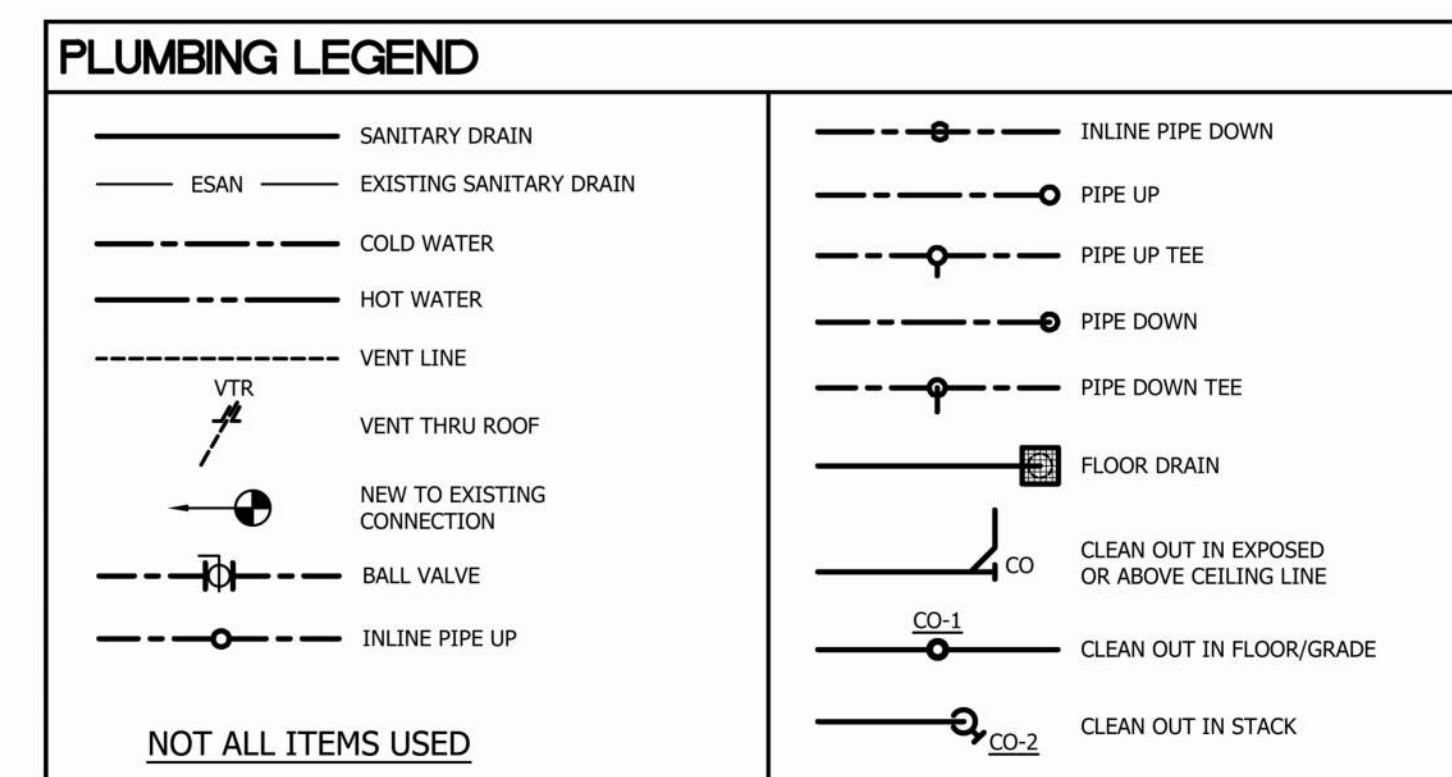
Drawing No.

**P3**



UPPER FLOOR 3 BR BUILDING I - SEWER FLOOR PLAN

MAIN FLOOR 3 BR BUILDING I - SEWER FLOOR PLAN



SUPPLY LINE NOTE NOTE:  
PROVIDE NEW BRAIDED SUPPLY  
LINES AND STOPS. BRAIDED SUPPLY  
LINES AND STOPS PROVIDED BY  
HOUSING AUTHORITY.

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

POINT OF CONNECTION

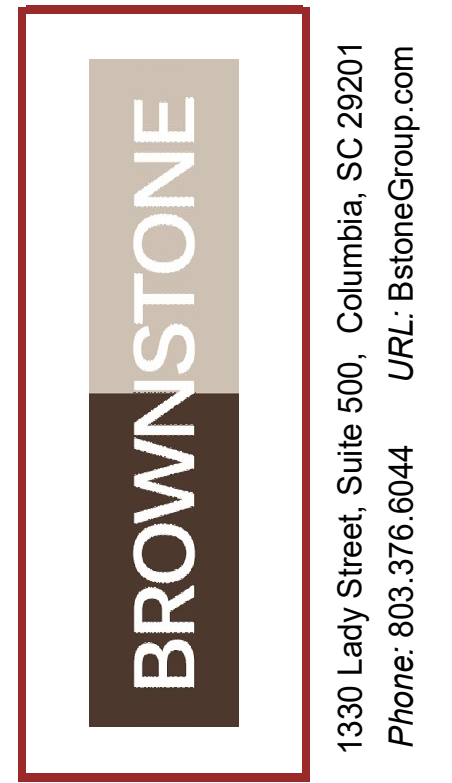
⊗ = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- WASTE PIPING NOTES:**
1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS and INVERTS of VENT, SEWER and GREASE PIPING.
  2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES and ELEVATIONS HAVE BEEN CONFIRMED.
  3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES and ELEVATIONS BEFORE STARTING WORK.
  4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

NOTE:  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.



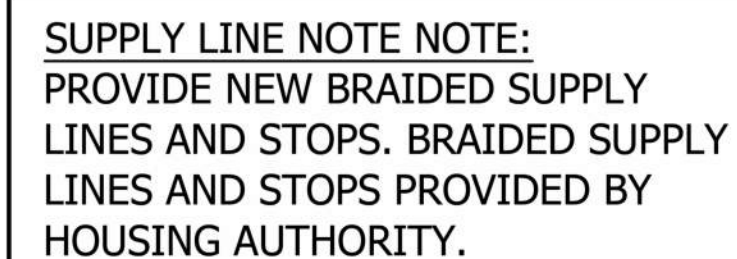


Enter address here  
Address Line 2


Drawing Title.

**BUILDING I - WATER FLOOR  
PLAN**

**P4**



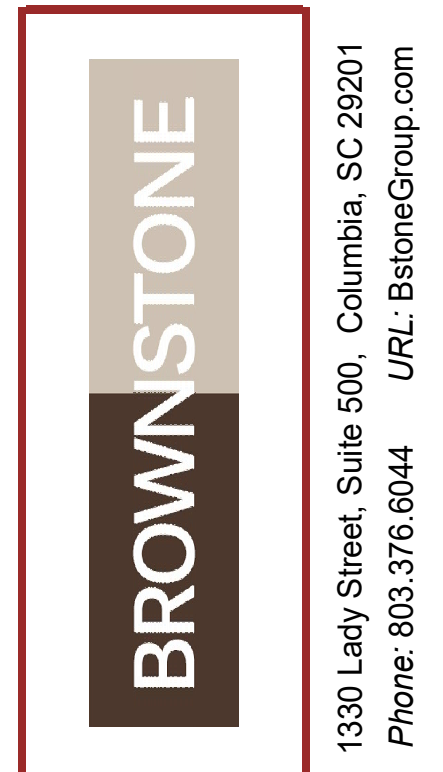
## POINT OF CONNECTION

 = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.





**CHERAW HOUSING AUTHORITY**  
**SEWER LINE REPLACEMENT &**  
**INTERIOR RENOVATIONS**  
Enter address here  
Address Line 2

Project Number  
04-2024-07.01

Date  
JUNE 19, 2025

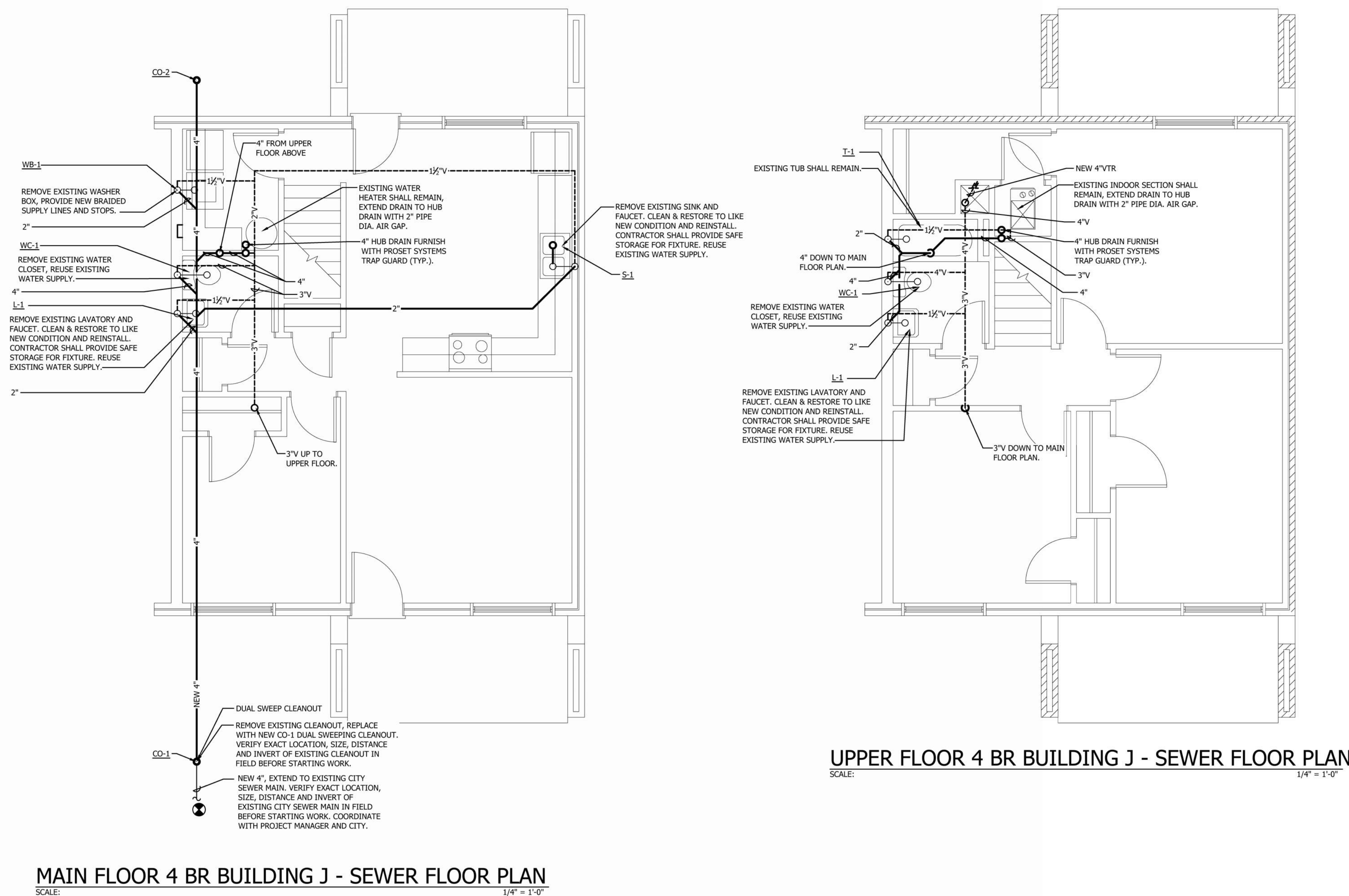
This drawing and the design thereon are the property of The Boudreaux Group Inc. The reproduction, copying, or use of this drawing without the written consent of The Boudreaux Group Inc. is prohibited and any infringement will be subject to legal action. Copyright ©

[illegible]

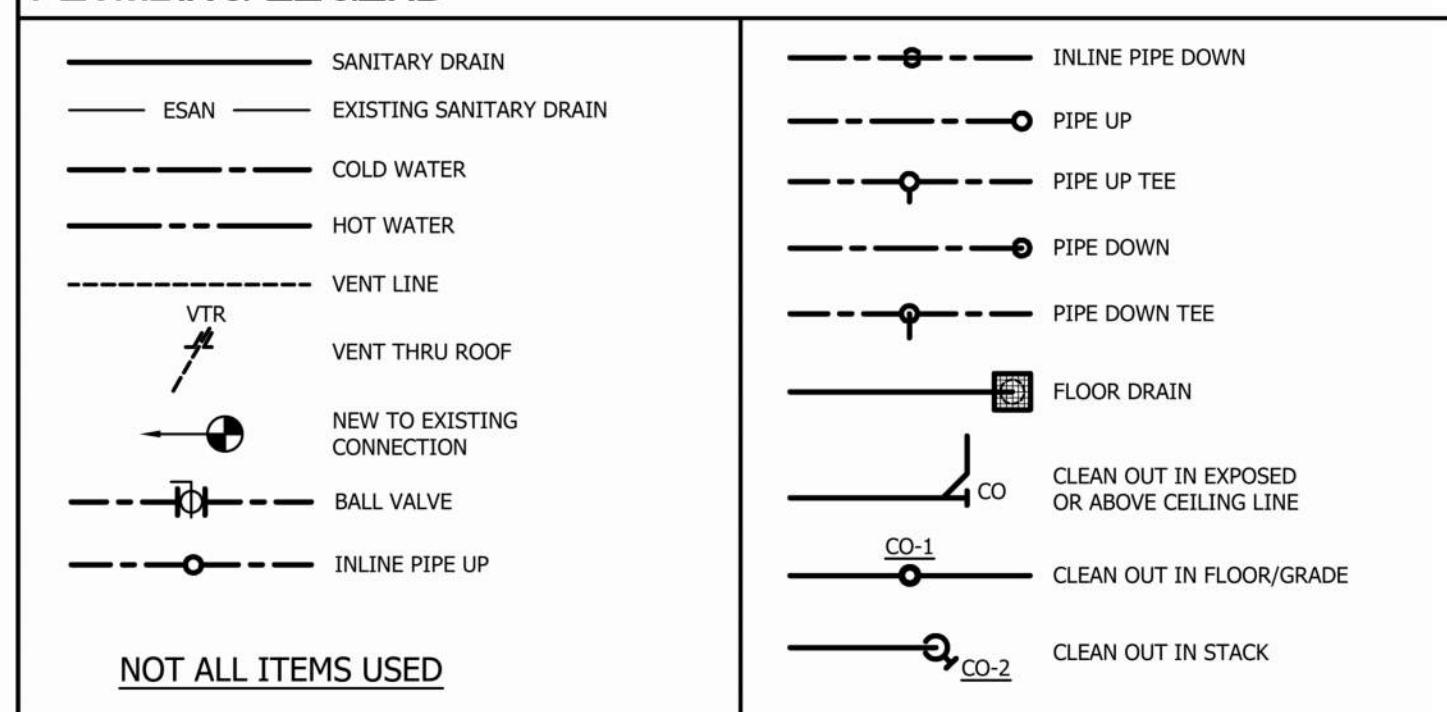
## BUILDING J - SEWER FLOOR PLAN

Drawing No.

P5



## PLUMBING LEGEND



**SUPPLY LINE NOTE NOTE:**  
**PROVIDE NEW BRAIDED SUPPLY**  
**LINES AND STOPS. BRAIDED SUPPLY**  
**LINES AND STOPS PROVIDED BY**  
**HOUSING AUTHORITY.**

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

### POINT OF CONNECTION

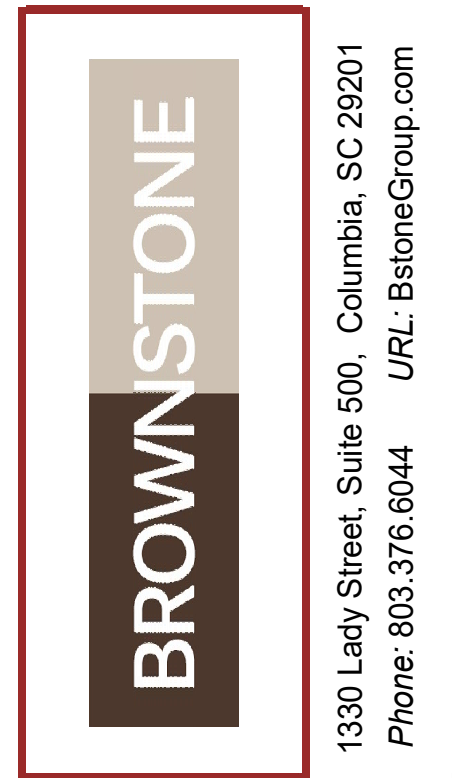
⊗ = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- WASTE PIPING NOTES:**
1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS and INVERTS of VENT, SEWER and GREASE PIPING.
  2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES and ELEVATIONS HAVE BEEN CONFIRMED.
  3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES and ELEVATIONS BEFORE STARTING WORK.
  4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

**NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.





**CHERAW HOUSING AUTHORITY  
SEWER LINE REPLACEMENT &  
INTERIOR RENOVATIONS**

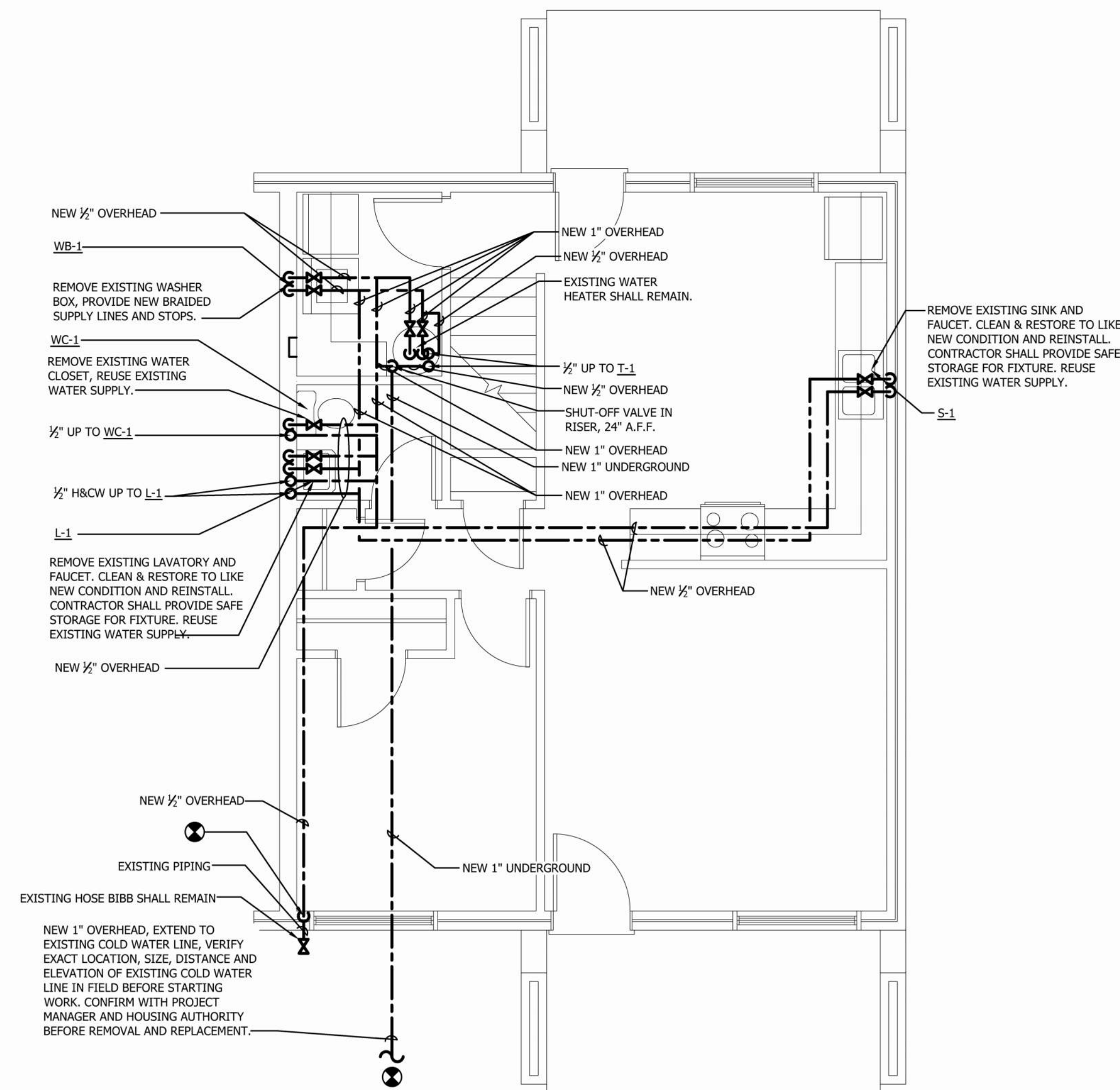
Enter address here  
Address Line 2

| No. | Description   | Date                                 |
|-----|---|--------------------------------------|
|     | This drawing and the design thereon are the property of The Boudreaux Group Inc. The reproduction, copying or distribution of this document without the written consent of The Boudreaux Group Inc. is prohibited and any infringement will be subject to legal action starting from 2001. The Boudreaux Group. | JUNE 19, 2025<br>Date: 04-2024/07 01 |

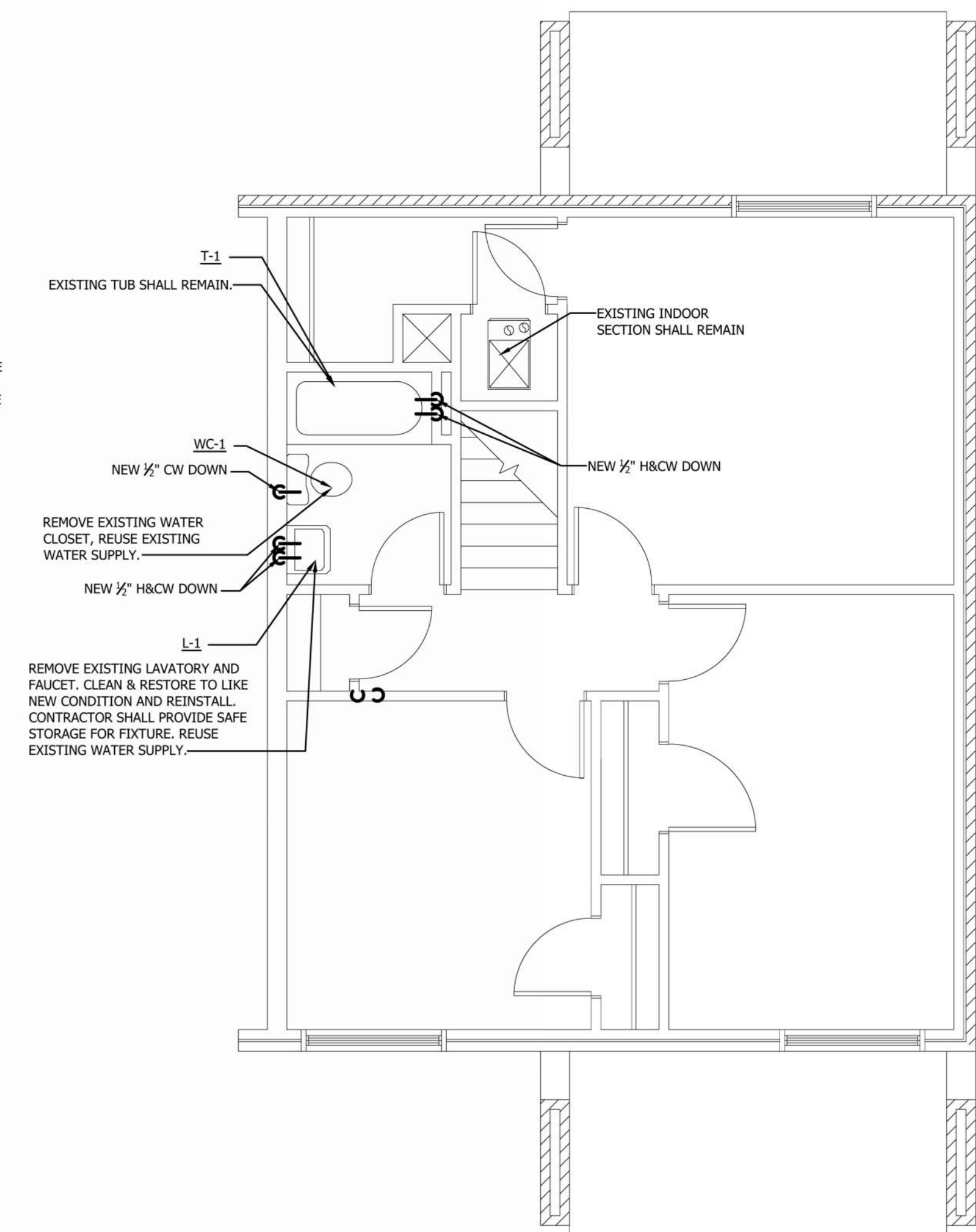
**BUILDING J - WATER FLOOR  
PLAN**

Drawing No.

**P6**






















MAIN FLOOR 4 BR BUILDING J - WATER FLOOR PLAN



UPPER FLOOR 4 BR BUILDING J - WATER FLOOR PLAN

## PLUMBING LEGEND


|   |                            |   |  |
|---|----------------------------|---|--|
|  | SANITARY DRAIN             |  | INLINE PIPE DOWN                           |
|  | ESAN                       |  | PIPE UP                                    |
|  | EXISTING SANITARY DRAIN    |  | PIPE UP TEE                                |
|  | COLD WATER                 |  | PIPE DOWN                                  |
|  | HOT WATER                  |  | PIPE DOWN TEE                              |
|  | VENT LINE                  |  | FLOOR DRAIN                                |
|  | VENT THRU ROOF             |  | CLEAN OUT IN EXPOSED OR ABOVE CEILING LINE |
|  | NEW TO EXISTING CONNECTION |  | CLEAN OUT IN FLOOR/GRADE                   |
|  | BALL VALVE                 |  | CLEAN OUT IN STACK                         |
|  | INLINE PIPE UP             |   |  |

NOT ALL ITEMS USED

**SUPPLY LINE NOTE NOTE:**  
**PROVIDE NEW BRAIDED SUPPLY**  
**LINES AND STOPS. BRAIDED SUPPLY**  
**LINES AND STOPS PROVIDED BY**  
**HOUSING AUTHORITY.**

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

## POINT OF CONNECTION

 = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- WASTE PIPING NOTES:**
1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS AND INVERTS OF VENT, SEWER AND GREASE PIPING.
  2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES AND ELEVATIONS HAVE BEEN CONFIRMED.
  3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES AND ELEVATIONS BEFORE STARTING WORK.
  4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

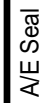
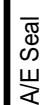
**NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.





**BROWNSTONE**

[illegible][illegible]

Drawing Title



















**5 BUILDING K - SEWER FLOOR  
PLAN**

Drawing No.

**P7**



## PLUMBING LEGEND


|   |                                |   |  |
|---|--------------------------------|---|--|
|  | SANITARY DRAIN                 |  | INLINE PIPE DOWN                           |
|  | ESAN — EXISTING SANITARY DRAIN |  | PIPE UP                                    |
|  | COLD WATER                     |  | PIPE UP TEE                                |
|  | HOT WATER                      |  | PIPE DOWN                                  |
|  | VENT LINE                      |  | PIPE DOWN TEE                              |
|  | VENT THRU ROOF                 |  | FLOOR DRAIN                                |
|  | NEW TO EXISTING CONNECTION     |  | CLEAN OUT IN EXPOSED OR ABOVE CEILING LINE |
|  | BALL VALVE                     |  | CLEAN OUT IN FLOOR/GRADE                   |
|  | INLINE PIPE UP                 |  | CLEAN OUT IN STACK                         |

NOT ALL ITEMS USED

**SUPPLY LINE NOTE NOTE:**  
**PROVIDE NEW BRAIDED SUPPLY**  
**LINES AND STOPS. BRAIDED SUPPLY**  
**LINES AND STOPS PROVIDED BY**  
**HOUSING AUTHORITY.**

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

POINT OF CONNECTION

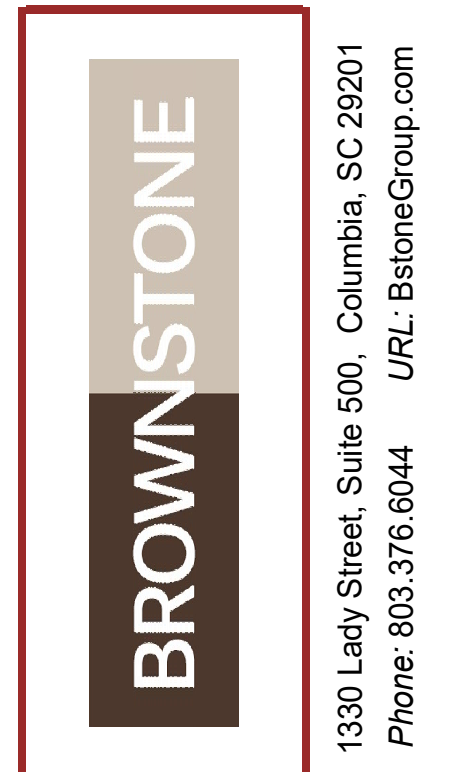
 = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- WASTE PIPING NOTES:**
1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS AND INVERTS OF VENT, SEWER AND GREASE PIPING.
  2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES AND ELEVATIONS HAVE BEEN CONFIRMED.
  3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES AND ELEVATIONS BEFORE STARTING WORK.
  4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

**NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.





**CHERAW HOUSING AUTHORITY**  
**SEWER LINE REPLACEMENT &  
INTERIOR RENOVATIONS**  
Enter address here  
Address Line 2

Enter address here  
Address Line 2

| No. | Description   | Date                                 |
|-----|---|--------------------------------------|
|     | This drawing and the design herein are the property of The Boudreaux Group Inc. The reproduction, copying or distribution of this document without the written consent of The Boudreaux Group Inc. is prohibited and any infringement will be subject to legal action as of June 19, 2021. The Boudreaux Group, | JUNE 19, 2025<br>Date: 04-2024-07-01 |

## 5 BUILDING K - WATER FLOOR PLAN

**Drawing Title.**

Drawing No.


**P8**



**SUPPLY LINE NOTE NOTE:**  
**PROVIDE NEW BRAIDED SUPPLY**  
**LINES AND STOPS. BRAIDED SUPPLY**  
**LINES AND STOPS PROVIDED BY**  
**HOUSING AUTHORITY.**

SEE ARCHITECTURAL PLANS  
FOR BUILDING LOCATIONS.

## POINT OF CONNECTION

 = POINT OF CONNECTION FOR NEW PIPING. CONNECT NEW PIPING TO EXISTING PIPING, VERIFY EXACT SIZE, LOCATION, DISTANCE & INVERT IN FIELD BEFORE STARTING WORK.

- WASTE PIPING NOTES:**
1. ALL EXISTING VENT, AND SEWER PIPING IS UNKNOWN. EXISTING AS-BUILT PLANS ARE NOT AVAILABLE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DISTANCES, SIZES ELEVATIONS AND INVERTS OF VENT, SEWER AND GREASE PIPING.
  2. NO WORK SHALL BE STARTED BEFORE ALL PIPING LOCATIONS, SIZES AND ELEVATIONS HAVE BEEN CONFIRMED.
  3. PLUMBING CONTRACTOR SHALL INCLUDE IN HIS BID WORK FOR CONFIRMING LOCATIONS, SIZES, DISTANCES AND ELEVATIONS BEFORE STARTING WORK.
  4. COORDINATE WITH PROJECT MANAGER FOR RESOLUTION.

**NOTE:**  
CONTRACTOR TO PATCH AND  
REPAIR ALL FLOORS, WALLS  
AND CEILINGS TO MATCH  
NEW FINISHES. REFER TO  
ARCHITECTURAL DRAWINGS.

**PLUMBING TRENCHING NOTE:**  
ALL EXISTING WASTE PIPING SHOWN SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA IN FIELD BEFORE STARTING WORK. THE EXACT LOCATIONS, SIZES AND INVERTS SHALL BE VERIFIED WITH PLUMBING INSPECTION CAMERA. PLUMBING INSPECTION CAMERA MUST BE INCLUDED IN BID PROCESS. PLUMBING INSPECTION CAMERA WORK MUST BE DONE BEFORE DIGGING, TRENCHING EXCAVATION WORK CAN BE STARTED.





BROWNSTONE

1330 Lady Street, Suite 500, Columbia, SC 29201  
Phone: 803.376.6044 URL: BstoneGroup.com



CHERAW HOUSING AUTHORITY  
SEWER LINE REPLACEMENT &  
INTERIOR RENOVATIONS  
Enter address here  
Address Line 2

|   |               |
|---|---------------|
| Project Number  | 04-2024-07.01 |
| Date  | JUNE 19, 2025 |
| This drawing and the design thereon are the property of The Boudreaux Group Inc. The reproduction, copying, or use of this drawing without the written consent of The Boudreaux Group Inc. is prohibited and any infringement will be subject to legal action Copyright © 2001, The Boudreaux Group |               |

PLUMBING SCHEDULES &  
DETAILS

Drawing No.

P9

### GENERAL PLUMBING NOTES:

- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND LOCATION OF FIXTURES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND MAKE MINOR OFFSETS AND ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE FIXTURE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES.
- ALL PIPING SHALL BE RUN IN CONCEALED LOCATIONS EXCEPT WHERE NOTED.
- PLUMBING FIXTURES SHALL BE FIRST QUALITY VITREOUS CHINA, STAINLESS STEEL, OR PLASTIC AS NOTED ON PLUMBING FIXTURE SCHEDULE. ALL FIXTURES SHALL BE RIGIDLY CONNECTED TO THE BUILDING AND SHALL BE CLEANED AND FUNCTIONAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED GRADES.
- DOMESTIC WATER LINES 1/2" THROUGH 2-1/2" SHALL BE TYPE "L" COPPER WITH SOLDER JOINTS, SOLDER SHALL NOT CONTAIN LEAD. WATER SERVICE LINE OUTSIDE THE BUILDING MAY BE COPPER.
- AT THE CONTRACTOR'S OPTION PEX PIPING MAY BE USED AS FOLLOWS: PEX PIPING SHALL BE EXTRUDED CROSS-LINKED POLYETHYLENE WITH MULTI-LAYER CONSTRUCTION OR EQUAL. THE PIPE SHALL MEET MINIMUM REQUIREMENTS AS DEFINED BY ASTM F876 AND F877 STANDARDS FOR HOT AND COLD WATER DISTRIBUTION. PIPE SHALL BE PRESSURE RATED IN ACCORDANCE WITH ASTM D2837 STANDARDS AND SHALL CARRY A PRESSURE RATING OF 100 PSI AT 180° F. INSERT TYPE FITTINGS SHALL MEET ASTM F1807 STANDARD FOR METAL FITTINGS, OR ASTM F2159 STANDARD FOR PLASTIC FITTINGS. ALL FITTINGS SHALL BE COMPATIBLE WITH PIPE MANUFACTURER. COPPER PIPING SHALL BE INSTALLED WITHIN 18" OF WATER HEATING DEVICES AND THEN TRANSITION TO PEX.
- EXPOSED PIPING BELOW FIXTURES SHALL BE CHROME PLATED. PIPING AT FIXTURES IN HANDICAPPED ACCESSIBLE AREAS SHALL BE INSULATED TO PROTECT AGAINST BURNS. DRAIN WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE DRAWINGS.
- ALL BURIED PIPING SHALL BE BEDDED AND COVERED IN MANUFACTURED SAND.
- POTABLE WATER LINES SHALL BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC PLASTIC OR FIBERGLASS PIPE INSULATION. AFTER COMPLETION OF PIPING, TEST POTABLE WATER PIPING TO A PRESSURE OF 125 LBS. PER SQ. INCH AND HOLD FOR 24 HOURS.
- TEST DRAIN WASTE AND VENT PIPING BY FILLING TO LEVEL OF HIGHEST VENT.
- AFTER INSTALLATION OF POTABLE WATER PIPING, STERILIZE LINES IN ACCORDANCE WITH CODES AND HEALTH DEPARTMENT REGULATIONS AND FLUSH AND FILL WITH CLEAN WATER.
- FITOUT POTABLE WATER LINES TOWARD DRAINS. INSTALL DRAIN WASTE AND VENT PIPING WITH MINIMUM SLOPES OF 1/4" PER FOOT FOR LINES UP TO 2-1/2" AND 1/8" PER FOOT FOR LINES 3" AND LARGER.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE WALLS AND FLOOR CEILING ASSEMBLIES.
- INSTALL FIRE STOP MATERIAL IN ACCORD WITH U.L. LISTING AT ALL PENETRATIONS.
- SECTIONAL VALVES SHALL BE INSTALLED ON EACH BRANCH AND RISER, CLOSE TO MAIN, WHERE BRANCH OR RISER SERVES 2 OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS AND ELSEWHERE AS INDICATED.
- IT IS THE INTENT OF THIS PROJECT TO CONFORM WITH THE REQUIREMENTS OF THE 2014 LEAD FREE ACT. EVERY EFFORT HAS BEEN MADE TO CALL FOR PLUMBING DEVICES THAT COMPLY WITH THE ACT. EVEN SO, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSTALL PRODUCTS THAT COMPLY WITH THE 2014 LEAD FREE SAFE WATER DRINKING ACT.
- PROVIDE WATERTIGHT PIPE SLEEVE AND CAULKING FOR ALL PIPING PASSING THRU WALLS, FLOORS, & ROOF.
- THIS CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING AND RESTORING TO LIKE NEW ALL EXISTING WALLS, FLOORS AND CEILING DAMAGED BY HIS WORK.
- THIS CONTRACTOR SHALL VISIT JOB SITE FOR VISUAL INSPECTION BEFORE BID DATE.
- ALL EXISTING EQUIPMENT NOT REUSED WILL REMAIN THE PROPERTY OF THE OWNER AND BE DISPOSED OF AS DIRECTED.
- PLUMBING CONTRACTOR SHALL REMOVE ALL DEBRIS CREATED BY HIS WORK. THE JOB SITE SHALL BE LEFT CLEAN AND ALL REUSED OR NEW EQUIPMENT SHALL BE LEFT IN FIRST CLASS WORKING CONDITION.
- GUARANTEE: MECHANICAL WORK SHALL BE GUARANTEED AGAINST DEFECTS. WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. ALL EQUIPMENT SHALL BE TURNED OVER TO THE OWNER IN LUBRICATED CONDITION.
- OBTAIN ALL PERMITS & PAY ALL FEES IN CONNECTION WITH THIS WORK.
- SPACING OF PIPE HANGERS SHALL BE IN ACCORDANCE WITH ASA-B31.1. PIPING SHALL BE INSTALLED SO THAT EQUIPMENT DOES NOT TAKE THE LOAD OF ANY PIPING.
- PLUMBING WORK SHOWN ON THIS PLAN SHALL BE CONSIDERED NEW, UNLESS NOTED OTHERWISE.
- EXISTING WATER, SEWER, VENT AND GAS LINES FOR EXISTING EQUIPMENT NOT BEING REUSED SHALL BE CAPPED OFF ABOVE CEILING OR BELOW SLAB.
- EXISTING DRAINS THAT ARE TO BE ABANDONED SHALL BE FILLED IN WITH CONCRETE FLUSH WITH SURROUNDING FLOOR.
- REMOVE OR ABANDON AS FIELD CONDITIONS WARRANT EXISTING PLUMBING WORK NOT SHOWN.

### PLUMBING SPECIFICATION

#### I. GENERAL

- A. Scope: Furnish all labor, materials and equipment necessary for the installation of all plumbing work required on the drawings and as specified herein.
- B. Work Required: In general, the work consists of, but is not limited to, the following:
- Domestic Water System connecting to existing
  - Sanitary Sewer System connecting to existing
  - Hot Water Piping System
  - Plumbing Fixtures
- C. Permits, Ordinances, and Inspections:
- Obtain and pay for all permits and inspection fees required. Deliver to architect, certificates of inspections issued by the authorities.
  - All work shall be done in accordance with all applicable City, County, State, or National Ordinances and Codes. Effort has been made to meet or exceed requirements. The Contractor shall make any minor adjustments to meet these requirements at no additional cost to the Owner.
  - Instructions and Instruction Booklets: The Contractor shall instruct the Owner's representative in the proper operation of all equipment. Furnish literature provided by the manufacturer. Printed instructions and maintenance data shall be bound with cover in duplicate and delivered to the Architect.

#### II. PRODUCTS

- A. All materials shall be new, first class, and comply with latest ASTM Specifications and Standards relating to such materials.
- B. Water Piping:
- Furnish and install dielectric or isolation fittings at all points where copper pipe connects to wrought iron or steel pipe
  - Exposed Pipe in Toilet Rooms: Chrome Plated Brass, American Brass Company, or equivalent. Furnish and install chrome plated wall plates.
  - Piping under floor slab shall be Type K soft temper copper tubing ASTM B-88. No joints shall be permitted under floor slab.
  - Piping above floor slab shall be Type L hard drawn copper tubing ASTM B-88. Use wrought copper sweat fittings.
- C. Sanitary Waste, and Vent Piping: Piping shall be Schedule 40 PVC - DWV pipe and fittings.
- E. Pipe Hangers: Adjustable wrought deisv type hanger and rods; Grinnell Company or equivalent.
- F. Cleanouts:
- Floor Cleanouts for soil and waste lines shall have bodies of standard pipe sizes as manufactured by Zurn or equivalent.
  - Wall Cleanouts for soil and waste lines shall have bodies of standard pipe sizes as manufactured by Zurn or equivalent.
- G. Valves:
- Butterfly valves 2-1/2" and larger.
  - Ball valves 2" and smaller.
  - Unions shall have brass to metal ground joint seal.
- H. Escutcheon Plates: Provide chrome plated escutcheon plates where exposed pipe passes through walls, floors, or ceiling in finished areas.
- I. Pipe Insulation:
- All hot water pipe above grade shall be insulated with 1" fiberglass, low pressure insulation with white universal jacket. Apply in accordance with manufacture's instructions.
  - All cold water pipe above grade shall be insulated with 1/2" fiberglass as above.

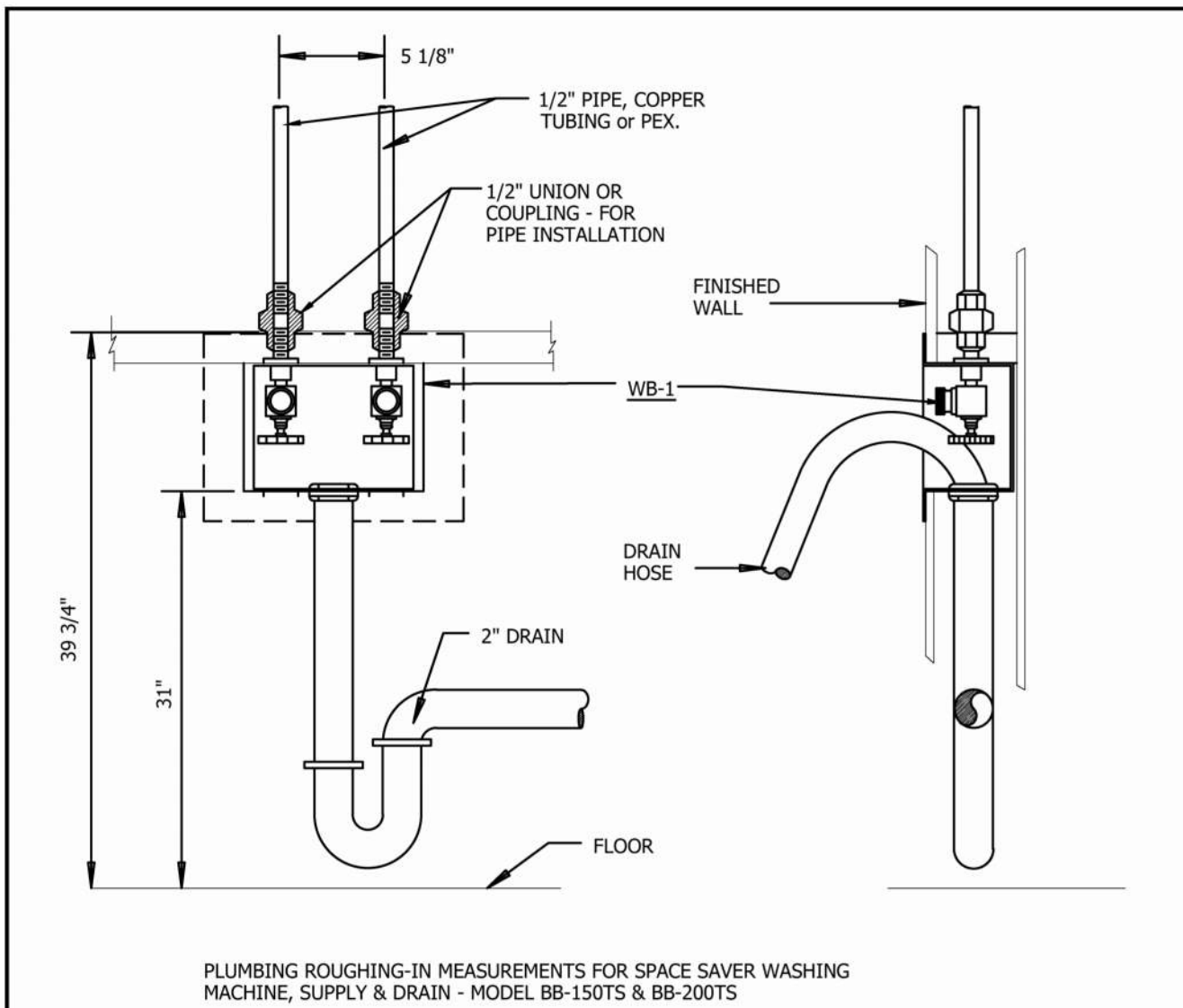
#### MATERIALS OF CONSTRUCTION

SANITARY SEWER, WASTE, DRAIN & VENT ----- SCH. 40 PVC  
VENTS ABOVE CEILING ----- SCH. 40 PVC  
TYPE "K" BELOW GRADE  
TYPE "L" ABOVE GRADE  
TYPE "W" IS NOT ACCEPTABLE  
SUBMIT COPPER PIPING FOR REVIEW.  
\*\* PEX COLOR CODED  
PVC-ASTM D-3034  
INSULATE ALL HOT & COLD WATER LINES WITH 1/2" THICK SELF-SEAL ELASTOMERIC.

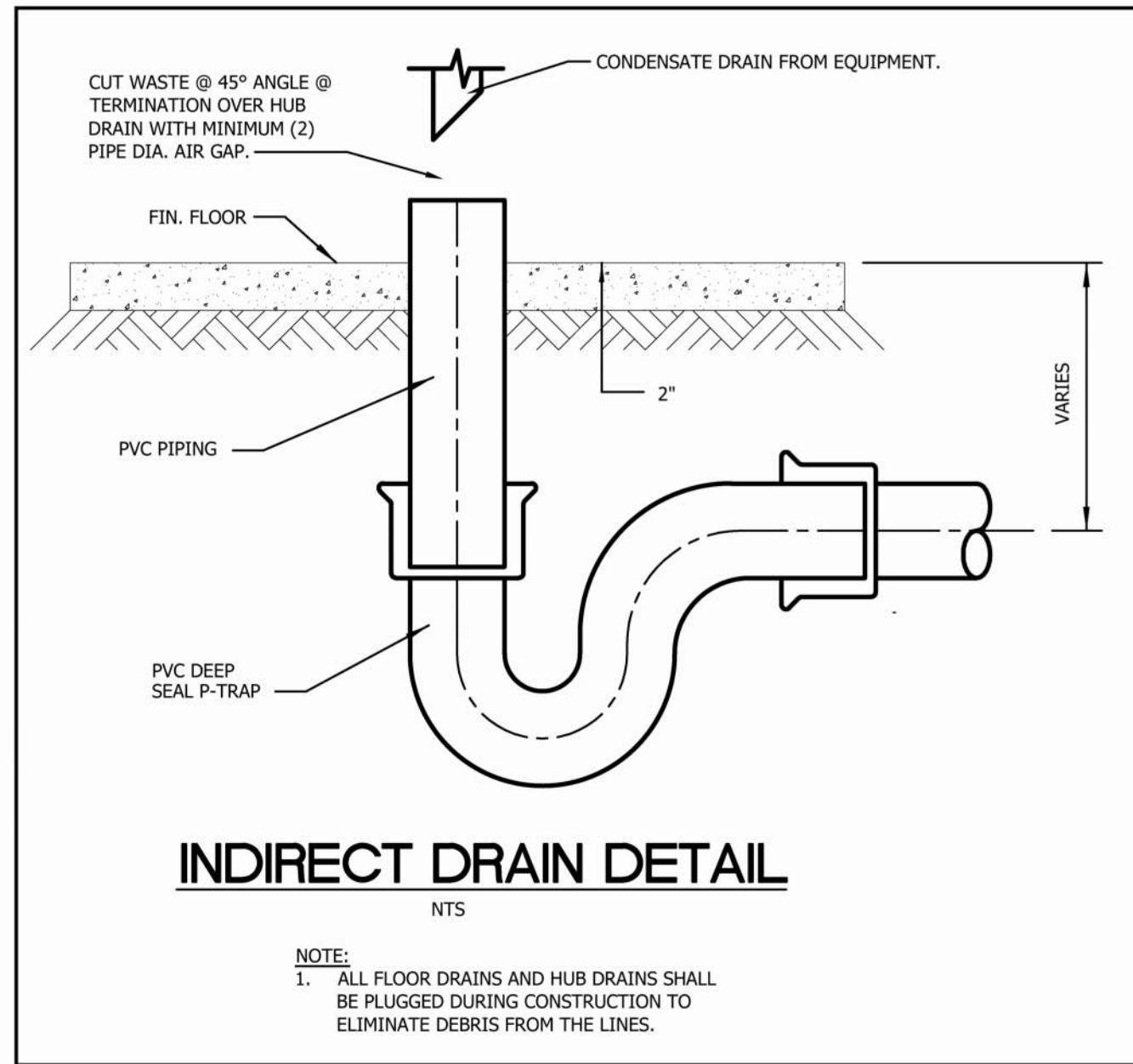
\* ALL INSULATED FITTINGS SHALL BE WRAPPED WITH ZESTON #2000 PVC, USDA APPROVED JACKETING.

\*\* PEX tubing must be labeled as follows:  
The manufacturer's name or trademark  
Material designation code (PEX006)  
Pressure/temperature rating(s)  
SDR9

If the tubing is for potable water, a laboratory seal or mark attesting to suitability for potable water.  
ASTM fittings designations approved for use by the tubing manufacturer.  
PEX fittings must be made of metal and must be secured with metal compression fittings.  
PEX tubing may not be used for water heater connections within the first 18 inches of the piping connected to the water heater. PEX TUBING SHALL HAVE MINIMUM 6 MONTH UV RESISTANCE. PEX TUBING SHALL HAVE PEX 5006 DESIGNATION.



WB-1 WASHER STANDPIPE DETAIL



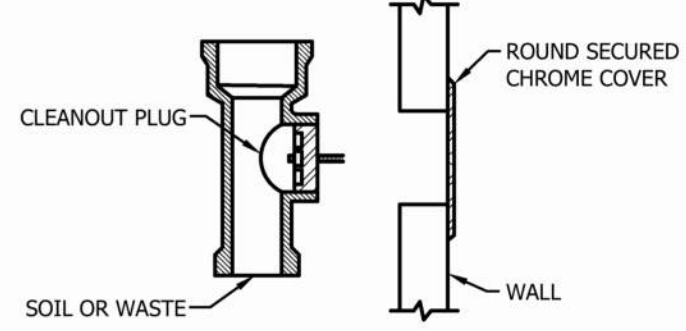
NOTE:

- ALL FLOOR DRAINS AND HUB DRAINS SHALL BE PLUGGED DURING CONSTRUCTION TO ELIMINATE DEBRIS FROM THE LINES.

### PLUMBING FIXTURE SCHEDULE

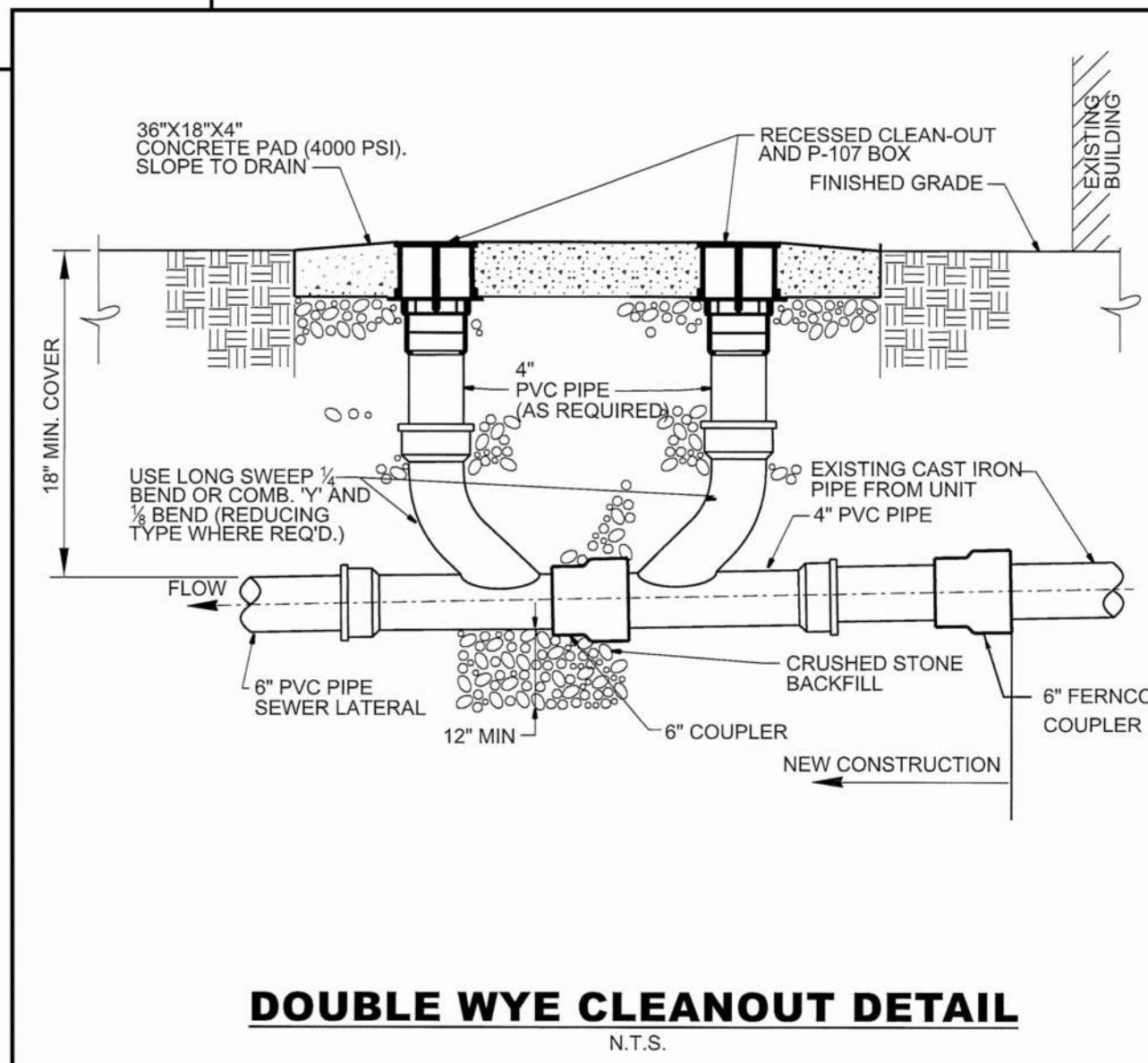
\*\* UNLESS NOTED OTHERWISE, ALL MODEL NUMBERS GIVEN ARE ZURN. EQUAL CHINA PRODUCTS WILL BE CONSIDERED. SLOUX CHIEF, MIFAB, WADE, AND JR SMITH DRAIN PRODUCTS WILL BE CONSIDERED. EQUAL STAINLESS STEEL PRODUCTS WILL BE CONSIDERED.

| DESIGNATION | FIXTURE TYPE     | MANUFACTURER   | MODEL #      | DESCRIPTION  |
|-------------|------------------|--|--------------|--|
| WC-1        | WATER CLOSET     | ---  | ---          | FURNISHED BY HOUSING AUTHORITY, COORDINATE WITH HOUSING AUTHORITY FOR INSTALLATION. FURNISH WITH FLOOR ANCHOR BOLTS. |
|             | SEAT             | ---  | ---          | FURNISHED BY HOUSING AUTHORITY, COORDINATE WITH HOUSING AUTHORITY FOR INSTALLATION. ANGLE SUPPLY W/LOOSE KEY STOP    |
|             | SUPPLY           | ZURN   | Z-8808-CR-LK | WASTE-4", VENT 2", CW 1/2"   |
|             | CONNECTION SIZES | Oatey  | 90441        | WAX RING - JUMBO SIZE WITH PLASTIC HORN.   |
| L-1<br>hc   | LAVATORY         | REMOVE EXISTING LAVATORY. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE.    |              |  |
|             | FAUCET           | REMOVE EXISTING FAUCET. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE.      |              |  |
|             | TRAP             | ZURN   | Z-8700       | 1-1/2" CAST BRASS P-TRAP W/C.O. PLUG   |
|             | SUPPLIES         | ZURN   | Z-8808-LR-LK | ANGLE SUPPLIES W/LOOSE KEY STOPS   |
|             | INSULATION KIT   | ZURN   | Z8946-1-NT   | ZURN TRAP WRAP, MOLDED CLOSED CELL VINYL INSULATION  |
|             | CONNECTION SIZES |  |              | WASTE 2", VENT 1-1/2", H & CW 1/2"   |
| S-1         | SINK             | REMOVE EXISTING SINK. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE.        |              |  |
|             | FAUCET           | REMOVE EXISTING FAUCET. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE.      |              |  |
|             | DRAIN            | ZURN   | Z-8741       | STANDARD DUO STRAINER W/1-1/2" TAILPIECE   |
|             | WASTE            | ZURN   | Z-8751       | CONTINUOUS WASTE   |
|             | TRAP             | ZURN   | Z-8702       | 1-1/2" CAST BRASS P-TRAP W/C.O. PLUG   |
|             | SUPPLIES         | ZURN   | Z-8808-LR-LK | ANGLE SUPPLIES W/LOOSE KEY STOPS   |
|             | CONNECTION SIZES |  |              | WASTE 2", VENT 1-1/2", H & CW 1/2"   |
| T-1         | TUB              | EXISTING TUB SHALL REMAIN.   |              |  |
|             | VALVE            | SYMMONS  | BP-56-2-231  | PRESSURE BALANCE VALVE W/DIVERTER SPOUT AND SHOWER HEAD  |
|             | OVERFLOW & DRAIN | ZURN   | Z-8771       | TRIP LEVER WITH FLAT STRAINER  |
|             | TRAP             | ZURN   | Z-8732       | 1-1/2" x 1-1/2" P-TRAP   |
|             | CONNECTION SIZES |  |              | WASTE 2", VENT 1-1/2", H & CW 1/2"   |
| WB-1        | WASHER BOX       | OATEY  | 38530        | SUPPLY & DRAIN   |
|             | TRAP             |  |              | 2" P-TRAP, PROVIDE VACUUM BREAKERS & HOSE CONNECTION   |
|             | CONNECTION SIZES |  |              | WASTE 2", VENT 1-1/2", H & CW 1/2"   |
| CO-1        | CLEANOUT         | ZURN   | Z-1400       | EXTERIOR GRADE - DUAL SWEEPING CLEANOUT  |
| CO-2        | CLEANOUT         | ZURN   | Z-1400       | EXTERIOR GRADE   |
| CO-3        | CLEANOUT         | ZURN   | ZN-1446      | INTERIOR WALL W/ROUND ACCESS COVER   |
| CO-1        | CLEANOUT         | ZURN   | ZN-1400      | INTERIOR FINISH FLOOR  |
| UR-1<br>hc  | URINAL           | REMOVE EXISTING LAVATORY. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE.    |              |  |
|             | VALVE            | REMOVE EXISTING FLUSH VALVE. CLEAN & RESTORE TO LIKE NEW CONDITION AND REINSTALL. CONTRACTOR SHALL PROVIDE SAFE STORAGE FOR FIXTURE. |              |  |
|             | CARRIER          | ZURN   | ZR-1222      | FIXTURE SUPPORT W/BEARING PLATE  |
|             | CONNECTION SIZES |  |              | WASTE-2" VENT 1-1/2" CW 3/4"   |
|             |                  |  |              | REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS FOR ADA URINALS                                   |
| FD-1        | FLOOR DRAIN      | ZURN   | ZN415-B      | GEN SERVICE DRAIN W/ROUND STRAINER & DEEP SEAL TRAP  |
|             | CONNECTION SIZES |  |              | WASTE 3" VENT 2"   |
|             |                  |  |              | PROVIDE PROSET SYSTEMS TRAP GUARD  |



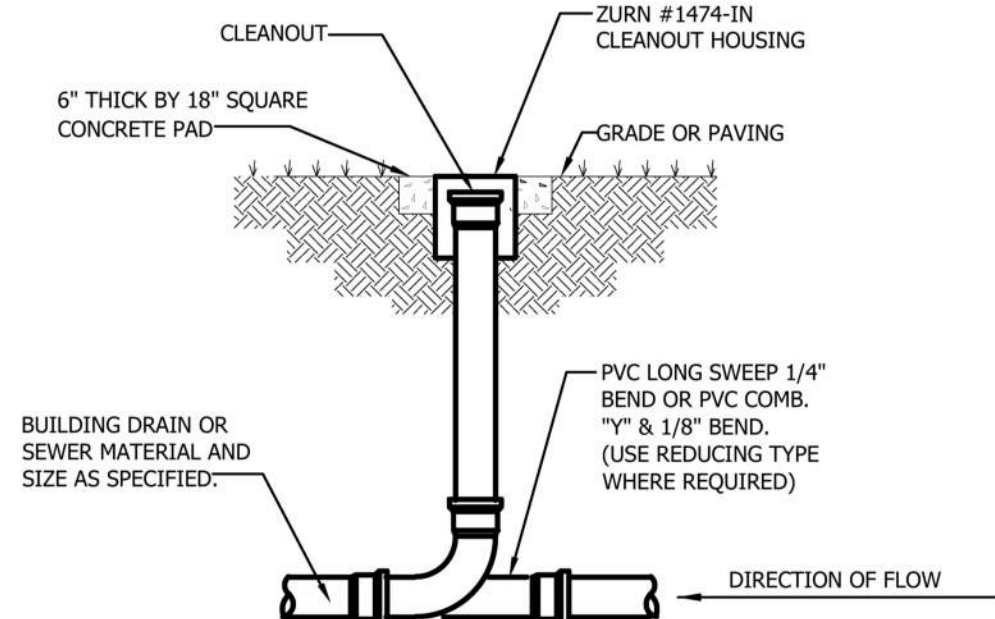
CO-3 CLEAN-OUT DETAIL

SCALE: NONE



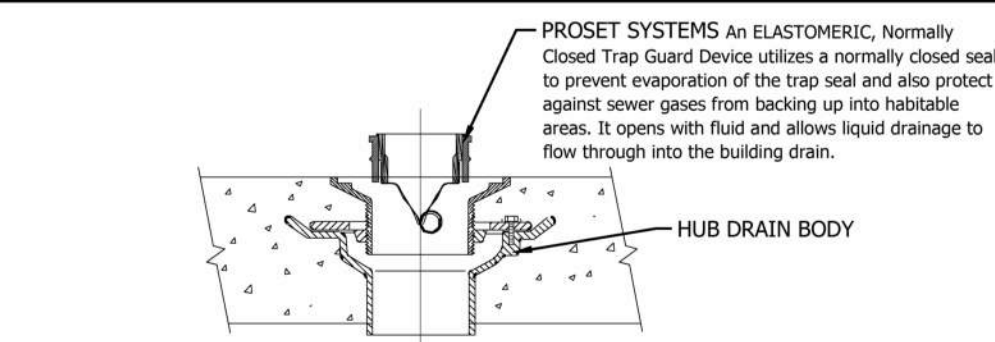
DOUBLE WYE CLEANOUT DETAIL

N.T.S.



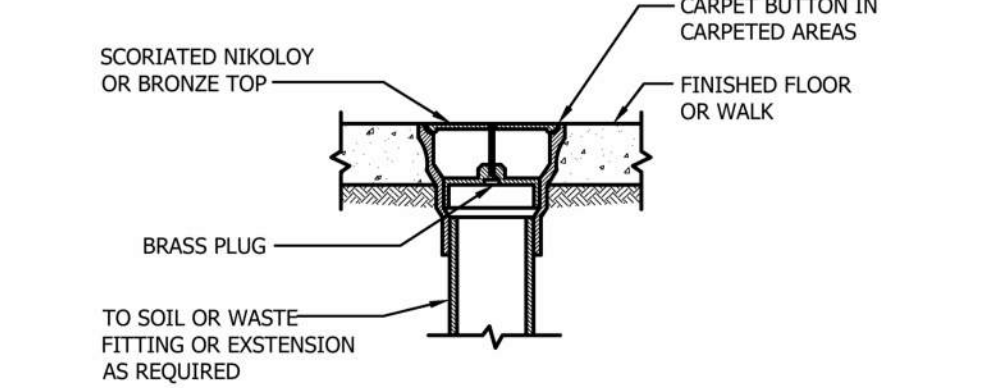
CO-1 & CO-2 GRADE CLEAN-OUT DETAIL

NOT TO SCALE



PROSET SYSTEMS TRAP GUARD

NOT TO SCALE



CO-4 CLEAN-OUT DETAIL

SCALE: NONE