



**COR3 Design, LLC**

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**MECHANICAL**

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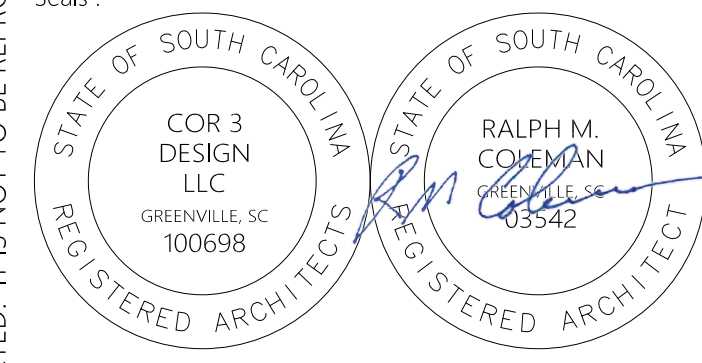
Project Title:

**HOME 2 SUITES  
GREENWOOD SC**  
475 HOSPITALITY BLVD,  
GREENWOOD, SC 29649

Client Logo:



Seals:



Revisions:

10.16.2024	Issue For Permit
03.20.2025	100% Issue For Hilton

Project Number:

23112

Phase:

CD

Date:

04.22.2024

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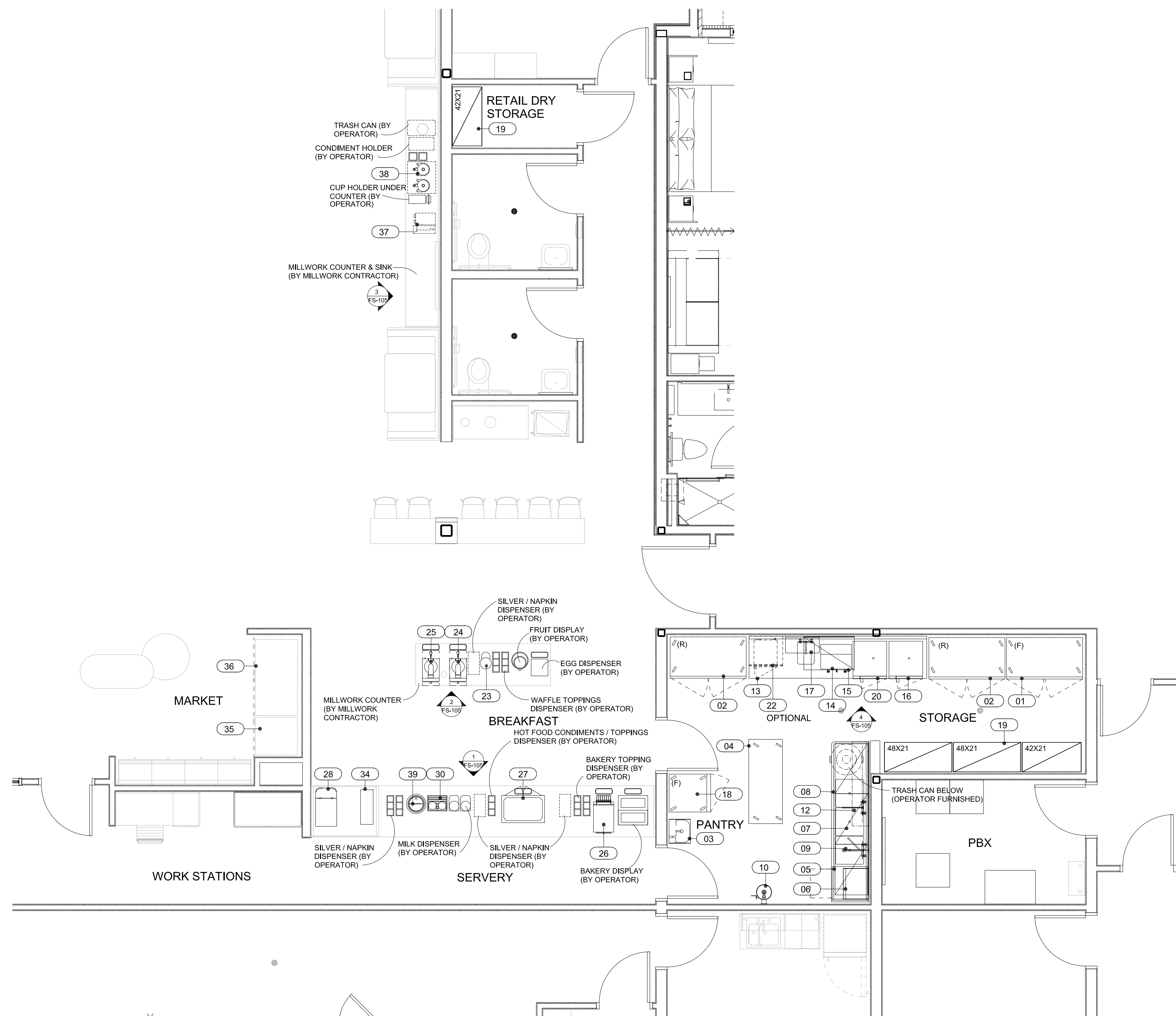
Sheet Number:

**FS-101**

Sheet Title:

EQUIPMENT PLAN STANDARD

EQUIPMENT SCHEDULE - DRY STORAGE				
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
01	1	MOBILE REACH-IN FREEZER	TRUE	T-49F-HC
02	2	MOBILE REACH-IN REFRIGERATOR	TRUE	TS-49-HC
03	1	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
04	1	MOBILE WORK TABLE	CUSTOM FABRICATED	
05	1	UNDERCOUNTER DISH-MACHINE (HIGH TEMP)	CHAMPION	UH-100B
06	1	DISH-TABLE RACK SHELF	ADVANCE TABCO	DT-4R-11
07	3	WALL SHELF (HIGH MOUNT)	METRO	1WD24K3/2WD24K3/2436NK3
08	1	DISH / POT WASHING SINKS	CUSTOM FABRICATED	
09	1	PRE-RINSE W/FALCET	T&S BRASS	B-2278-A12-E1
10	1	EYE WASH STATION	HAWS	736081-7460BT
11	1	SPARE NUMBER		
12	1	UTENSIL RACK W/ SHELF	ADVANCE TABCO	PS-12-60
13	1	WORKTABLE WITH SINK	CUSTOM FABRICATED	
14	1	COFFEE MAKER (OPERATOR FURNISHED)	FETCO	OBS-2152XTS
15	1	WALL SHELF (HIGH MOUNT)	METRO	1WD24K3/2436NK3
16	1	CONVECTION OVEN (VENTLESS)	MOFFAT (TURBOFAN)	E3305H2
17	2	WALL SHELF	CUSTOM FABRICATED	
18	1	MOBILE REACH-IN FREEZER	TRUE	T-23F-HC
19	3	STORAGE SHELVING	METRO	METROMAX Q
20	1	CONVECTION OVEN (VENTLESS) (OPTIONAL)	MOFFAT (TURBOFAN)	E3305H2
21	1	SPARE NUMBER		
22	1	MICROWAVE OVEN WITH SHELF	AMANA	HDC12A2/BMS2024
23	1	BATTER MIX STARTER KIT (OPERATOR FURNISHED)		
24	1	WAFFLE MAKER (BY VENDOR)		
25	1	WAFFLE MAKER (FUTURE) (BY VENDOR)		
26	1	CONVEYOR TOASTER	APW WYOTT	ECO 4000-350L-HILTON
27	1	DISPLAY SHOWCASE	EQUIPEX	WD780B-2/1
28	1	JUICE DISPENSER (BY VENDOR)	NESTLE VITALITY	EXPRESS
29	1	WARMING KETTLE (OPTIONAL)	VOLLRATH	72017
30	1	CEREAL DISPENSER	ROSETTO	EZP2135
31		NOT USED		
32	1	SPARE NUMBER		
33	1	SPARE NUMBER		
34	1	YOGURT DISPENSER (BY VENDOR)	PERFECT PARFAIT	PPHQ1BK
35	1	REACH-IN DISPLAY FREEZER	TRUE	GDM-23F-HC-TSL01
36	1	REACH-IN DISPLAY REFRIGERATOR	TRUE	GDM-49-HC-TSL01
37	1	WATER DISPENSER	MARCO	FRIIA HCS
38	2	COFFEE DISPENSER (OPERATOR FURNISHED)	FETCO	D449
39	1	WARMING KETTLE (DROP-IN)	VOLLRATH	74701D

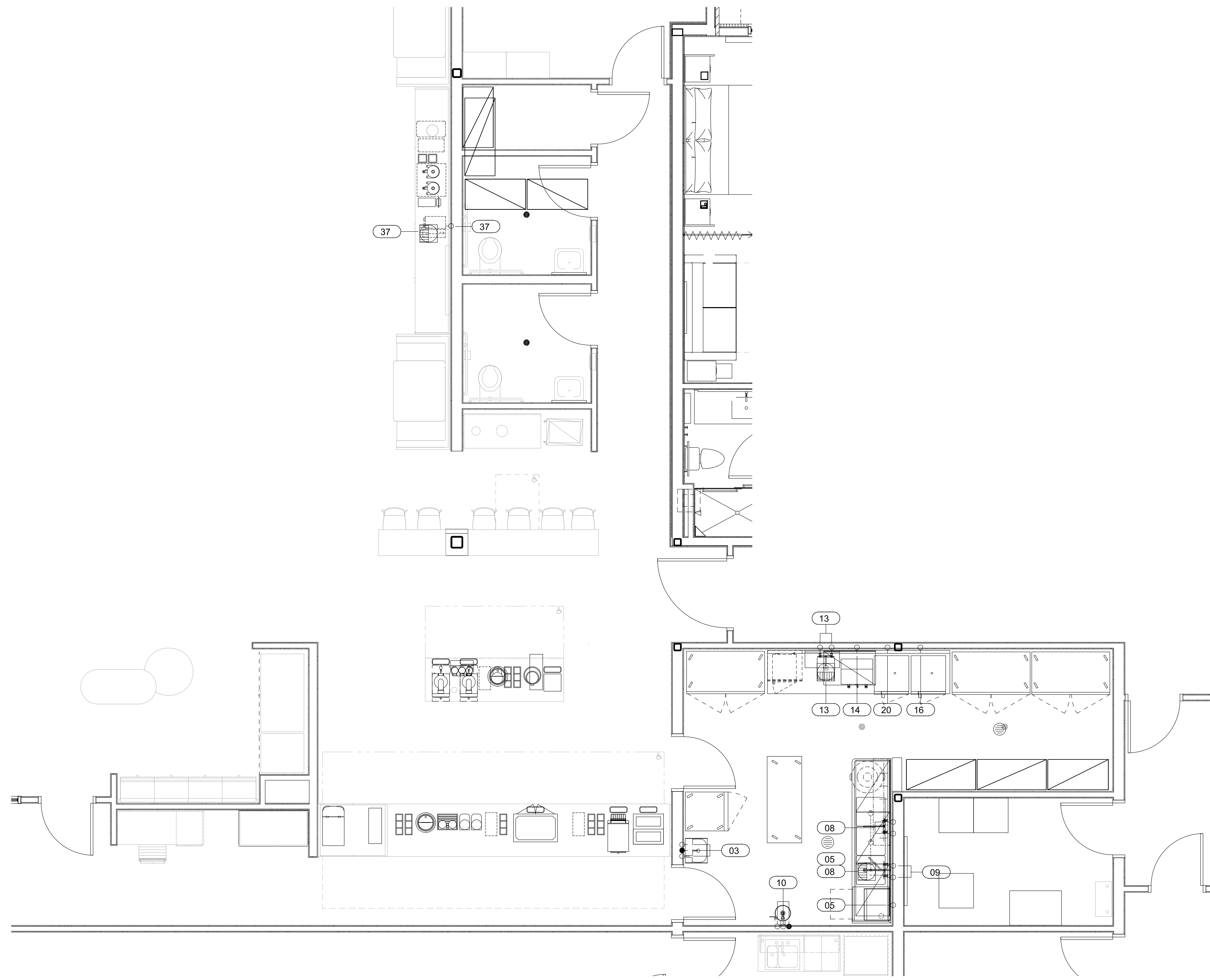


1 EQUIPMENT PLAN - DRY STORAGE

1/4" = 1'-0"



DRY STORAGE PLUMBING SCHEDULE													
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	HW AFF	CW SIZE	CW AFF	WASTE TYPE	DIA	AFF	PLUMBING COMMENTS	ITEM
01	1	MOBILE REACH-IN FREEZER	TRUE	T-49F-HC								CONDENSATE EVAPORATOR	01
02	2	MOBILE REACH-IN REFRIGERATOR	TRUE	TS-49H-HC								CONDENSATE EVAPORATOR	02
03	1	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	T-PS-87	1/2"	18"	1/2"	18"	DIR	1 1/2"	24"		03
05	1	UNDERCOUNTER DISHWASHER (HIGH TEMP)	CHAMPION	UH-100B	3/4"	12"	3/8"		FS			110 DEGREE HOT WATER @ 20-22 PSI	05
08	1	DISH / POT WASHING SINKS	CUSTOM FABRICATED		1/2"	12"	1/2"	12"	FS			(3 @ 2" WASTE) MANIFOLD DRAIN LINES, PLUMB DRAINS PER LOCAL CODES	08
09	1	PRE-RINSE W/FAUCET	T&S BRASS	B-227B-A12-EI	1/2"	12"	1/2"	12"					09
10	1	EYE WASH STATION	HAWS	7360BT-7460BT	1/2"	24"	1/2"	24"	DIR	1 1/4"	18"	THERMOSTATIC MIXING VALVE AND BACK FLOW PREVENTION (BY PLUMBING DIVISION)	10
13	1	WORKTABLE WITH SINK	CUSTOM FABRICATED		1/2"	18"	10"	1/2"	18"	FS	1 1/2"		13
14	1	COFFEE MAKER (OPERATOR FURNISHED)	PETCO	CBS-2152KTS								RUN THRU FILTER, VERIFY REQUIREMENTS WITH OPERATOR SUPPLIED EQUIPMENT	14
16	1	CONVECTION OVEN (VENTLESS)	MOFFAT (TURBOFAN)	E33D5H2				3/4"	48"			80 PSI MAXIMUM INLET PRESSURE / 20 PSI MINIMUM INLET PRESSURE	16
18	1	MOBILE REACH-IN FREEZER	TRUE	T-23F-HC								CONDENSATE EVAPORATOR	18
20	1	CONVECTION OVEN (VENTLESS) (OPTIONAL)	MOFFAT (TURBOFAN)	E33D5H2				3/4"	48"			80 PSI MAXIMUM INLET PRESSURE / 20 PSI MINIMUM INLET PRESSURE	20
28	1	JUICE DISPENSER (BY VENDOR)	NESTLE VITALITY	EXPRESS				1/2"	48"			RUN THRU FILTER, VERIFY REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT	28
37	1	WATER DISPENSER	MARCO	FR1A HCS				1/2"	18"	FS			37



- PLUMBING NOTES**
- PLUMBING PLANS SHOW EQUIPMENT POINTS AND SCHEDULED CONNECTIONS. REVIEW EQUIPMENT CONTRACTOR FOR PROPOSED DIMENSIONS (FLOOR DRAINS) FOR CONSTRUCTION.
  - WATER PRESSURE AND DISCHARGE SHALL BE AS SPECIFIED AND NOT EXCEED 80 PSI MAXIMUM.
  - WATER PRESSURE: DISCHARGES AND BOOSTING SYSTEMS TO BE 25 PSI (1.7 MPa).
  - PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS.
  - PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDOOR SINK AND DRAIN EQUIPMENT TO LOCAL CODES.
  - PLUMBING DIVISION TO PROVIDE ADEQUATE CLEANOUT FOR DRAIN LINES. PROVIDE EQUIPMENT CONTRACTOR WITH FURNISHED AND INSTALLED PIPING FOR THE FOLLOWING: FURNISHED: SOLID PIPE, VALVES, PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE, VERIFY LOCAL CODE WITH DATE CODES AND VERIFY.
  - FLOOR SINKS SHALL BE RE-INSTALLED TO BE 1/8" FROM FLOOR ON PER LOCAL CODE WITH DATE CODES AND VERIFY.
  - SOIL OR GREASE TRAP SHALL BE PROVIDED FOR ALL SINKS. GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING DIVISION CONTRACTOR.

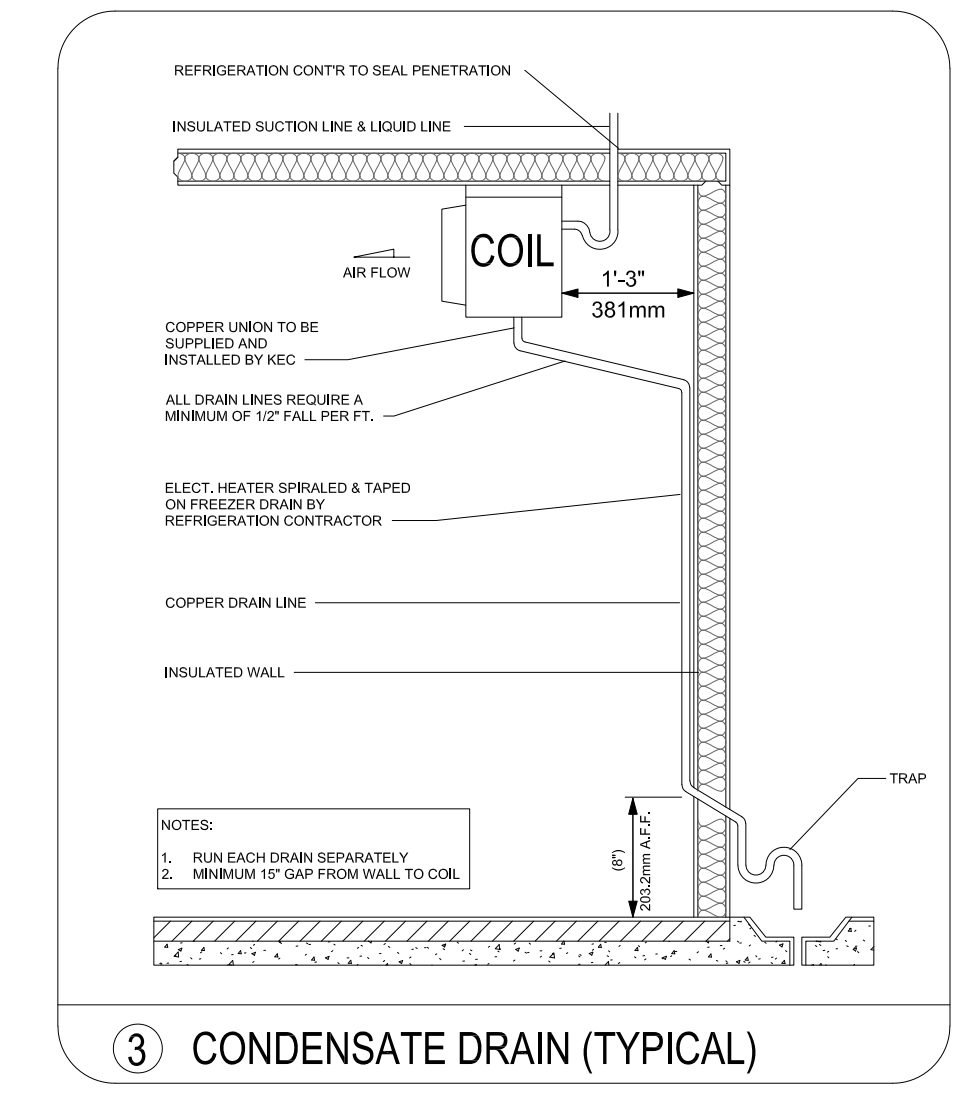
**NOTE**

ALL WALL MOUNT PLUMBING (UP TO 48") ARE TO BE PLUMB MOUNTED BY WALL WITH NO COVERED PIPING EXPOSED ON SURFACE OF WALLS. APPROVED TO PROVIDE MINIMUM WALL FINISHES IF REQUIRED.

**NOTE**

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED ELEVATE THRU FLOOR.

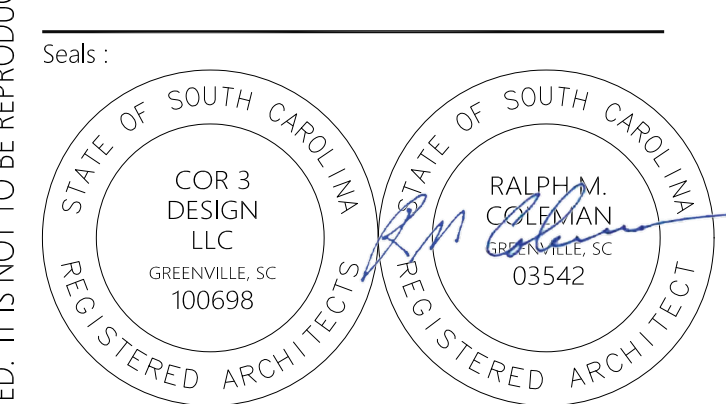
- PLUMBING SYMBOLS**
- HW-HOT WATER, OR CW-COLD WATER
  - WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
  - INDIRECT WASTE
  - FLOOR DRAIN
  - FLOOR DRAIN WITH FUNNEL
  - HUB DRAIN
  - DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
  - FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
  - FLOOR SINK WITH FUNNEL GRATE
  - GAS
  - GAS PRESSURE REGULATOR/BY KEIC
  - STEAM SUPPLY
  - CONDENSATE RETURN



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Project Title:  
**HOME 2 SUITES**  
**GREENWOOD SC**  
 475 HOSPITALITY BLVD,  
 GREENWOOD, SC 29649



Revisions:  
 10.16.2024 Issue For Permit  
 03.20.2025 100% Issue For Hilton

Project Number:  
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 CD  
 Date:  
 04.22.2024  
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**FS-103**  
 Sheet Title:  
 PLUMBING PLAN - STANDARD

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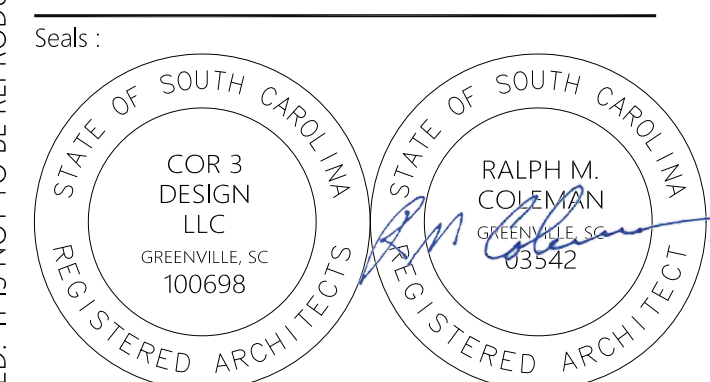
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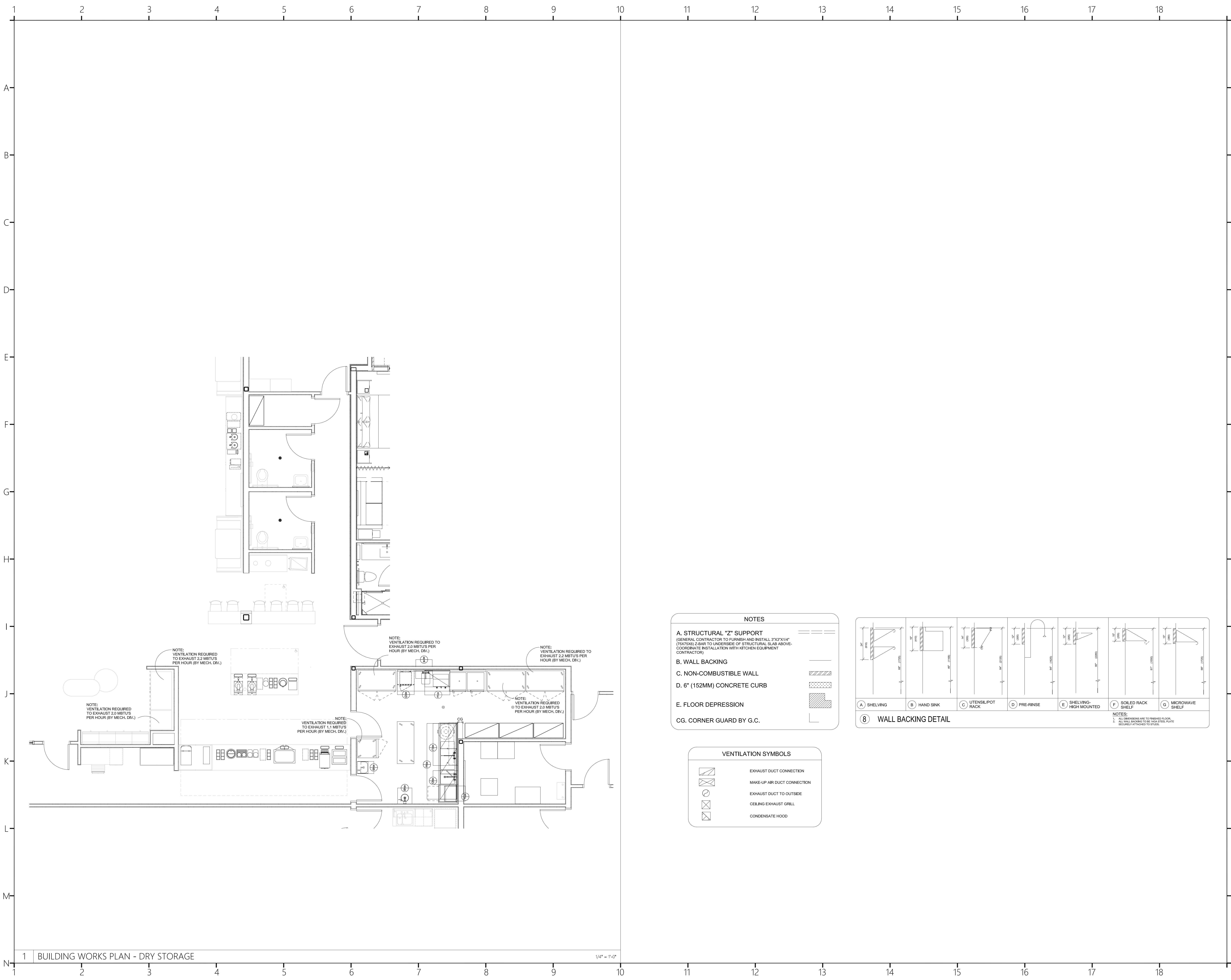
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**FS-104**  
Sheet Title:  
BUILDING WORKS PLAN - STANDARD



**NOTES**

**A. STRUCTURAL "Z" SUPPORT**  
(GENERAL CONTRACTOR TO FURNISH AND INSTALL 3"x3"x1/4" (80x75x8) Z-BAR TO UNDERSIDE OF STRUCTURAL SLAB ABOVE- COORDINATE INSTALLATION WITH KITCHEN EQUIPMENT CONTRACTOR)

**B. WALL BACKING**

**C. NON-COMBUSTIBLE WALL**

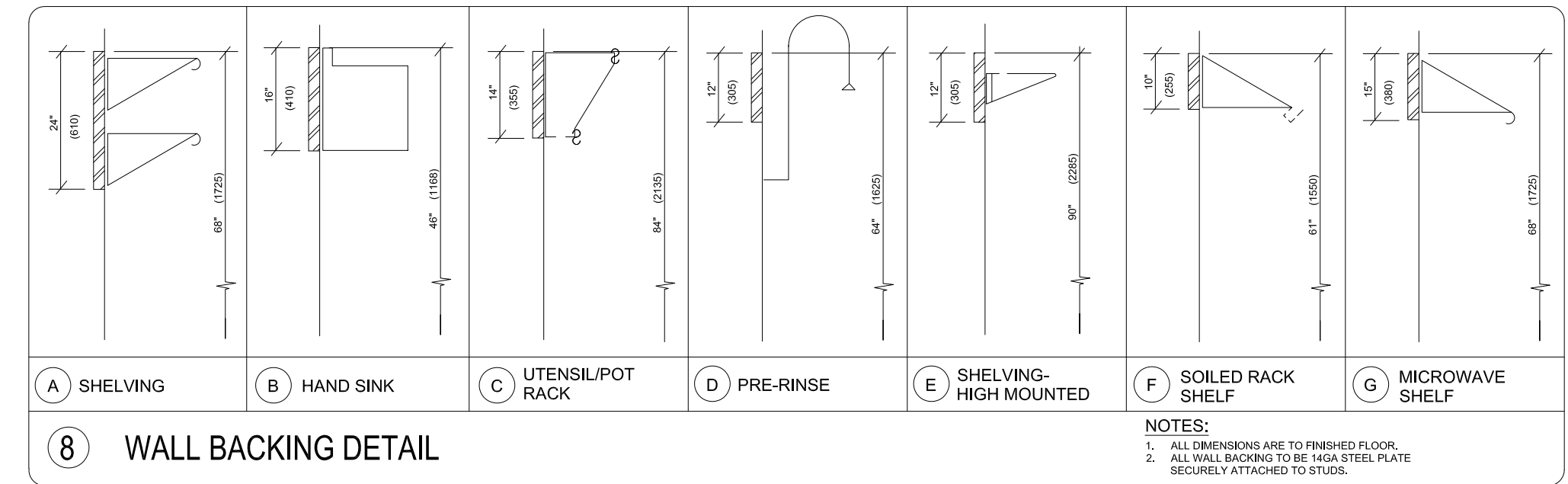
**D. 6" (152MM) CONCRETE CURB**

**E. FLOOR DEPRESSION**

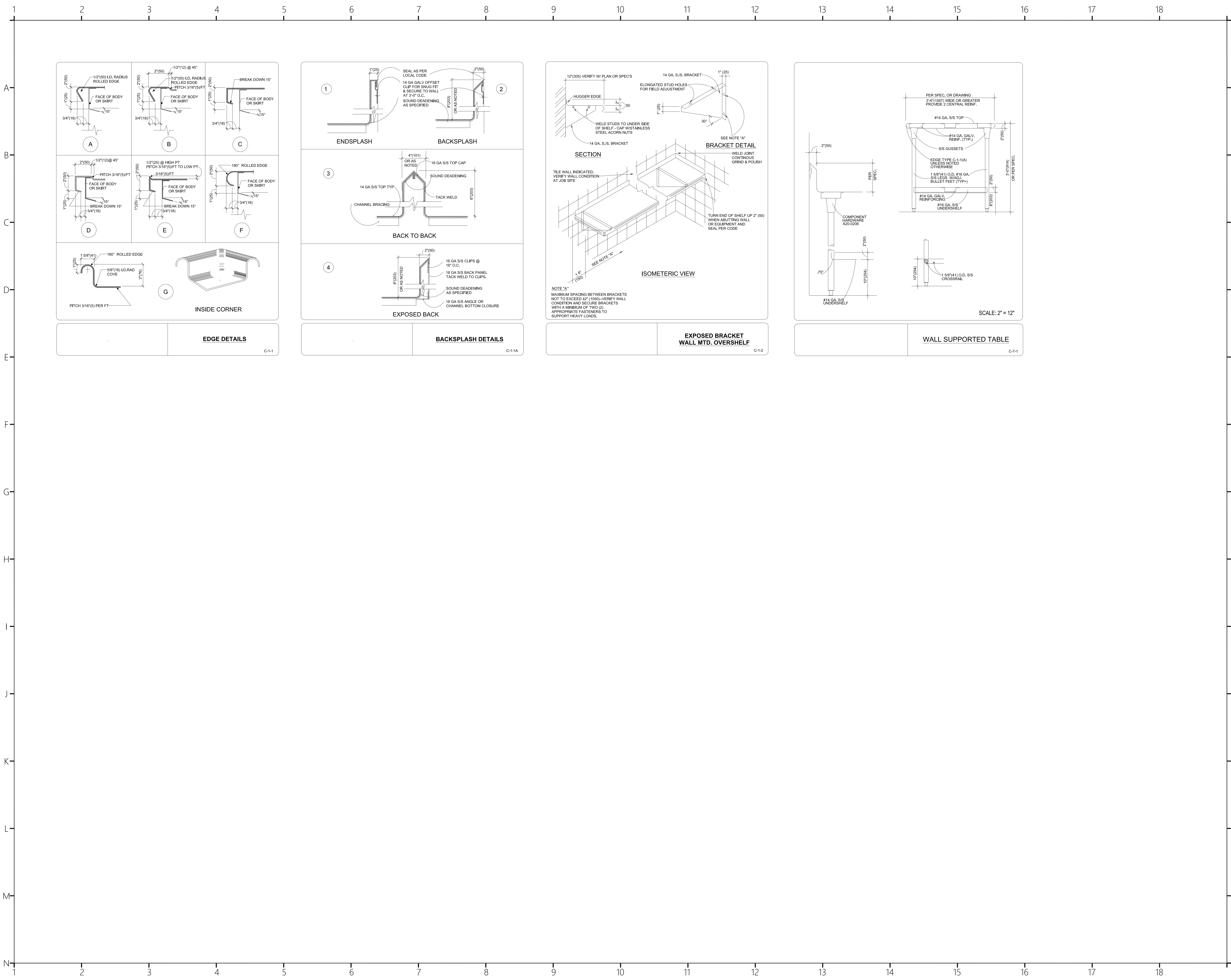
**CG. CORNER GUARD BY G.C.**

**VENTILATION SYMBOLS**

- EXHAUST DUCT CONNECTION
- MAKE-UP AIR DUCT CONNECTION
- EXHAUST DUCT TO OUTSIDE
- CEILING EXHAUST GRILL
- CONDENSATE HOOD





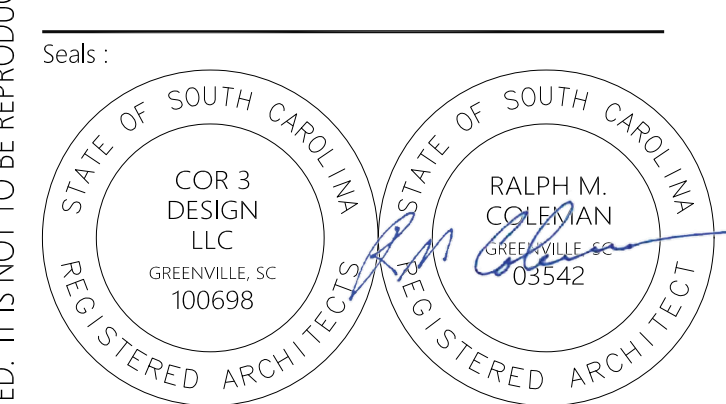


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 STANDARD DETAILS

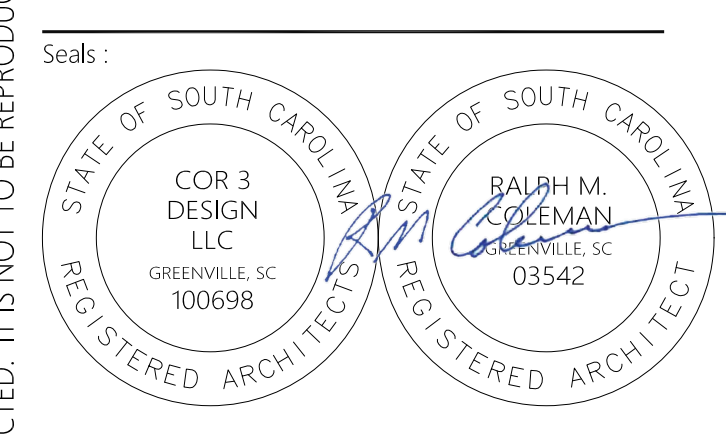
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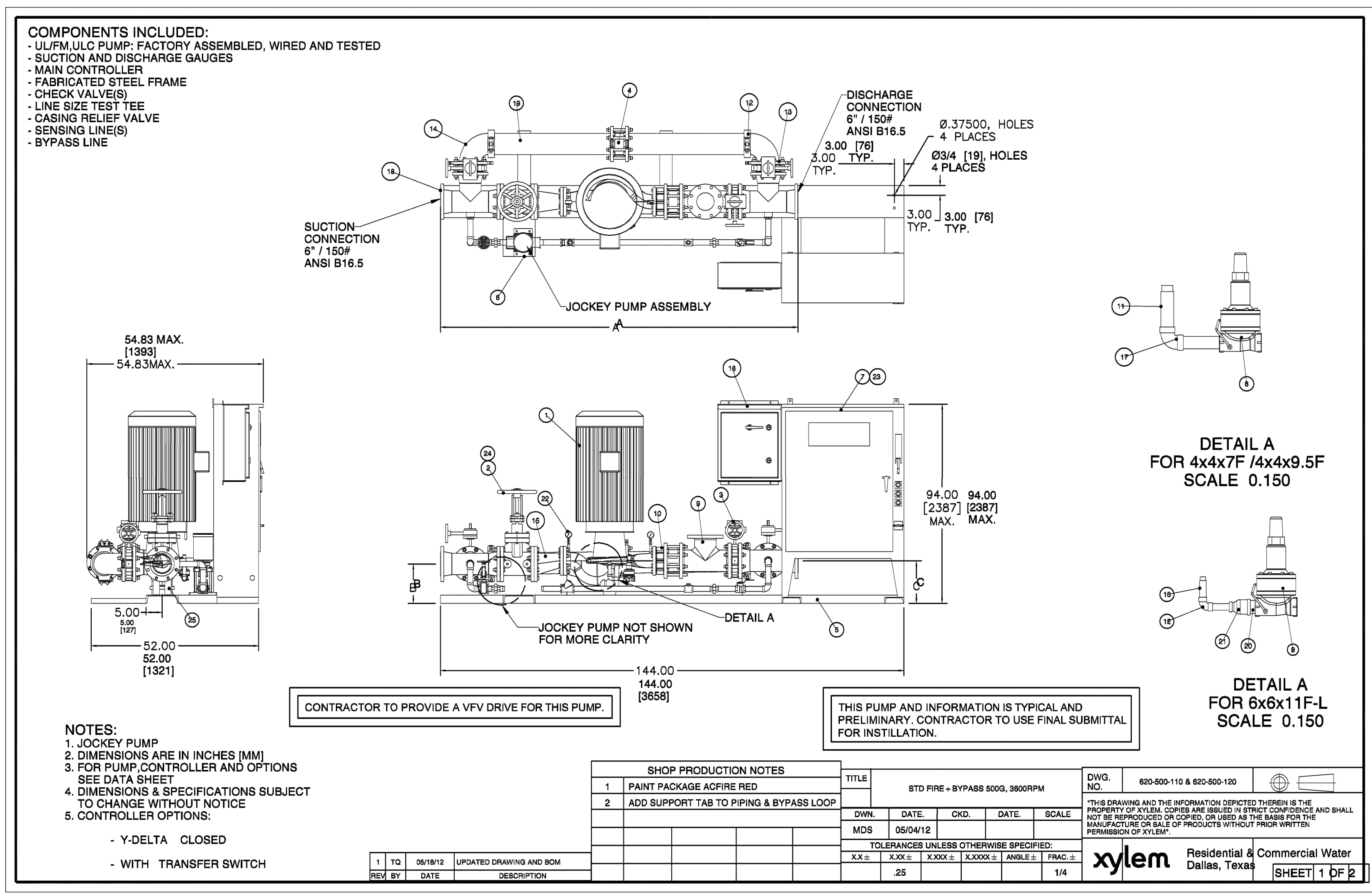


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Project Number: 23112  
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**FP-100**  
 Sheet Title:  
**FIRE PROTECTION NOTES AND DETAILS**

- FIRE PROTECTION NOTES**  
 GENERAL REQUIREMENTS:
1. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER SYSTEM, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO DELIVER ALL SYSTEMS COMPLETE, IN PERFECT WORKING ORDER AND IN FULL ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, 24, THE OWNER'S INSURANCE UNDERWRITER AND LOCAL AUTHORITIES.
  2. OBTAIN CURRENT WATER FLOW TEST INFORMATION FROM THE LOCAL WATER UTILITY BEFORE STARTING ANY SPRINKLER SHOP DRAWINGS.
  3. OBTAIN A COMPLETE AND CURRENT SET OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND COORDINATE SPRINKLER SHOP DRAWINGS WITH ALL TRADES PRIOR TO CONSTRUCTION.
  4. PROVIDE SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO ALL ITEMS WHICH APPLY AS OUTLINED IN NFPA-13 SECTION 6-1; "WORKING PLANS" AND IN NFPA 13 SECTION 6-2; "HYDRAULIC CALCULATIONS".
  5. THE SPRINKLER CONTRACTOR SHALL DETERMINE AND NOTE ON THE DRAWINGS, THE HAZARD CLASSIFICATION USED TO DETERMINE SPRINKLER SPACING AND DESIGN DENSITIES.
  6. PRIOR TO THE START OF CONSTRUCTION, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SUBMITTING TO ALL AUTHORITIES HAVING JURISDICTION AND THE DESIGN ENGINEER/ARCHITECT COMPLETE DESIGN/SHOP DRAWINGS AND HYDRAULIC CALCULATIONS BEARING A CURRENT NICET LEVEL 3 OR 4 SIGNATURE.
  7. OBTAIN A PERMIT FROM THE LOCAL AUTHORITIES PRIOR TO THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM.
  8. PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN THE PIPING AND AUXILIARY DRAINS AS REQUIRED BY ALL APPLICABLE CODES WHETHER OR NOT SHOWN ON THE PLANS.
  9. THE DESIGN, MATERIALS, AND INSTALLATION SHALL MEET OR EXCEED ALL REQUIREMENTS OF THEN F.P.A. CODES, STATE FIRE MARSHAL, LOCAL FIRE MARSHAL HAVING JURISDICTION, OWNERS INSURANCE CARRIER, AND GOVERNING CITY AND COUNTY CODES.
  10. WARRANTY THE SYSTEM, LABOR, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER OWNERS ACCEPTANCE. REPLACE OR REPAIR DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS AT NO ADDITIONAL TO THE OWNER.
  11. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SEISMIC PROTECTION REQUIREMENTS FOR THE PROJECT AND THE SEISMIC DESIGN CONFORMING TO ALL APPLICABLE CODES.
  12. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING APPARATUS EQUIPMENT, ETC. IN ACCORDANCE WITH ALL APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
  13. ALL SPRINKLE ALARM, TAMPER AND DETECTION SYSTEMS ARE TO BE CONNECTED TO THE BUILDINGS CENTRAL FIRE ALARM SYSTEM.
  14. VALVES, HEADS, FLOW SWITCHES, ETC., SHALL CARRY EITHER THE F.M. OR U.L. APPROVAL AND CONFORM TO ALL REQUIREMENTS AS LISTED IN THE LATEST EDITION OF THE NFPA CODES.
  15. ABOVE GRADE AND FITTINGS: BLACK STEEL CONFORMING TO ASTM SPECIFICATIONS FOR BLACK AND HOT DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS STEEL PIPE FOR ORDINARY USES, ANSI/ASTM A53, FITTINGS SHALL BE WELDED, SCREWED, OR GROOVED MECHANICAL JOINT.
  16. PIPE HANGER: SHALL CONFORM TO N.F.P.A. AND U.L. STANDARDS FOR SPACING, NUMBER, SIZE, AND TYPE. PIPE TO BE GENERALLY SUPPORTED BY CLAMPS AND RODS SECURED TO OVERHEAD CONSTRUCTION.
  17. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, FLOORS, OR CEILING. PROVIDE PRIME COAT PAINTED ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH THE WALLS, FLOOR, OR CEILINGS IN UNFURNISHED EXPOSED AREAS.
  18. TESTING AND FLUSHING: OVERHEAD SPRINKLER PIPING: TESTED FOR A PERIOD OF TWO HOURS AT A HYDROSTATIC PRESSURE OF 200 LBS. AND ALL PIPING, VALVES, HEADS, ECT. SHALL BE WATERTIGHT FOR ALL SYSTEMS BELOW LOWER LEVEL ROOF OR SECOND LEVEL SILO. SYSTEM SHALL BE TESTED AT 300 LBS FOR SILO HIGH PRESSURE SYSTEM.
  19. CUTTING AND PATCHING OF ANY EXISTING CONDITIONS INCLUDING FLOORS, WALLS AND CEILINGS DUE TO THE INSTALLATION OF THE FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
  20. PAINT ALL EXPOSED PIPING IN CLOSETS, STAIRWELLS, MECHANICAL ROOM, ETC. COLOR TO BE RED. ALL HIGH PRESSURE PIPING FROM PUMP TO TOP OF TOWER SHALL BE RED WITH WHITE STRIPS WHICH CAN BE EITHER PAINTED ON OR WITH HIGH QUALITY TAPE.
  21. HEAD LOCATIONS ARE TO BE IN CENTER OF THE CEILING TILE USING THE REFLECTIVE CEILING PLANS IN THE CONTRACT DOCUMENTS, AND AS COORDINATED WITH THE CEILING CONTRACTOR.
  22. PROVIDE RECORD DRAWINGS WHICH CLEARLY SHOW ALL UNDERGROUND PIPING DIMENSIONED FROM ANY PERMANENT STRUCTURE, AND ALL WORK ADDED TO THE CONTRACT DOCUMENTS.

- DESIGN CRITERIA**
1. SPRINKLER HEADS SHALL BE SPACED IN ACCORDANCE WITH NFPA-13 AND THE MANUFACTURER'S APPROVAL LISTING.
  2. SPRINKLER HEADS SPACING SHALL NOT EXCEED 130 SQ. FT. PER HEAD FOR LIGHT HAZARD AREAS AND ORDINARY HAZARD AREAS. THE SPRINKLER SPACING SHALL NOT EXCEED 15 FT. DESIGN DENSITY FOR AREA 1 LIGHT HAZARD: 101/1500 + 100 HOSE MINIMUM. DESIGN DENSITY FOR AREA 3 ORDINARY HAZARD 1: 151/1500 + 250 HOSE MINIMUM. DESIGN DENSITY FOR AREA 2 COMMODITY HAZARD 1: 291/2000 + 400 HOSE MINIMUM. DESIGN DENSITY FOR AREA 4 ORDINARY HAZARD II: 201/1500 + 250 HOSE MINIMUM.
  3. DESIGN AND HYDRAULICALLY CALCULATE THE SPRINKLER SYSTEM UTILIZING THE INFORMATION INCLUDED HEREIN AND MEET ALL NFPA-13 & 24 STANDARDS. THE CONTRACTOR SHALL TERMINATE THE HYDRAULIC CALCULATIONS AT THE CITY CONNECTION MINIMUM.



**Fire Sprinkler System Specification Sheet**  
 (Per §48-10-150)

Project name: Home 2 Suites

Location in South Carolina: Address (street # & name): 475 Hospitality Blvd. State Project:  Yes  No  
 City: Greenwood, 29649 County: Greenwood State Project #:

**Water Supply Information** (Flow test data must be less than 1 year old per §48-10-250 A C D)  
 Date test conducted: 3/19/24 Static pressure (psi): 50 Residual pressure (psi): 48 Flow (gpm): 1035  
 Distances of test gauges relative to the base of the riser: Horizontal (ft): 350 Vertical (elevation difference in ft): 0  
 Source of water supply:  Municipal dead-end  Municipal circulation Existing fire pump  Other: Pipe Size (in.): 12  
 Test data by/from: Name: Russell Holley Title: Eng. Dept.  
 Organization: Greenwood CPW Phone: 864-942-8199

**Fire pump:**  New Existing Rated Capacity (gpm): Churn Pressure (psi):  
 No Pump Rated Pressure (psi): Pressure @ 150% flow (psi):

**On-site water storage:**  Yes  No  New Existing  Tank  Other: Capacity (gal):

**NFPA Hazard Classification** (Attach continuation page when necessary)

Area #	Hazard Class or Code Reference	Description of Hazard Protected (including occupancy use group, and details of storage arrangement as applicable (including commodity class, rack arrangement/type, ceiling and storage height.))
1	Light	Lobby, office, restrooms, corridors, etc.
2	Light	Guest rooms, bathrooms
3	CL 1 Standpipe	Stairwells
4	OH1	Laundry, Storage, mechanical, Electrical, fire pump room, etc.

**Design Parameters** (Attach continuation page when necessary)

Area #	System Type	Density (gpm/ft <sup>2</sup> /Area(ft <sup>2</sup> ), or Other (Reference code sections)	Inside Hose (gpm)	Outside Hose (gpm)
1	Wet	0.10 / 1500	0	100
2	Wet	0.10 / 1500	0	100
3	Wet	750 GPM	NA	NA
4	Wet	0.15 / 1500	0	250

**Seismic Design Data:** S<sub>s</sub> = 0.297 Site Classification = D Seismic Design Category = C

**Codes and Standards** (Attach continuation page when necessary)  
 Applicable Codes, Standards, & Editions (i.e. 2018 IBC, 2016 NFPA 13, etc.) for the Scope of Work on the Fire Sprinkler System  
 NFPA 13 – 2019, NFPA 14 – 2019, IBC – 2021, IFC – 2021

**Scope of work** (i.e. sprinkler system A.G. from 1'-0" A.F.F., U.G. from tap to 5'-0" outside, etc.) and **notes** (attach continuation page when necessary):  
 Contractor shall install new wet pipe sprinkler system for the new building including the fire pump in the pool house building. All piping shall begin at 1' AFF.

**Specifier's Information**  
 Name: Warren E. Maddox P.E.  
 Engineering services provided through a firm:  Yes  No  
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 Address: PO Box 26266  
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Certificate of Authorization Professional Engineer's Seal  
 Signature: *Warren E. Maddox*  
 Date: 10/9/24

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