GENERAL NOTES:

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4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
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6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. FIRE RATED COMPONENTS INCLUDE BUT ARE NOT LIMITED TO THE RATED CEILING ASSEMBLY LOCATED WITHIN THE ATTIC SPACE. REFER TO THE ARCHITECTURAL PLANS FOR ANY ADDITIONAL RATED COMPONENTS.

PLAN NOTES:

(1) 14"X10" ERU EXHAUST DUCT UP TO 14"X14" ROOF MOUNTED GREENHECK FABRAHOOD WITH GRAVITY RELIEF DAMPER AND INSECT SCREEN. SUPPLY HOOD IN COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR PALETTE.

(2) 14"X10" ERU OUTSIDE AIR DUCT UP TO 14"X14" ROOF MOUNTED GREENHECK FABRAHOOD WITH GRAVITY INTAKE DAMPER AND INSECT SCREEN. SUPPLY HOOD IN COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR PALETTE.

(3) CONNECT ERU SUPPLY DUCT TO RTU RETURN DUCT. SUPPLY GRAVITY BACK DRAFT DAMPER AT CONNECT.

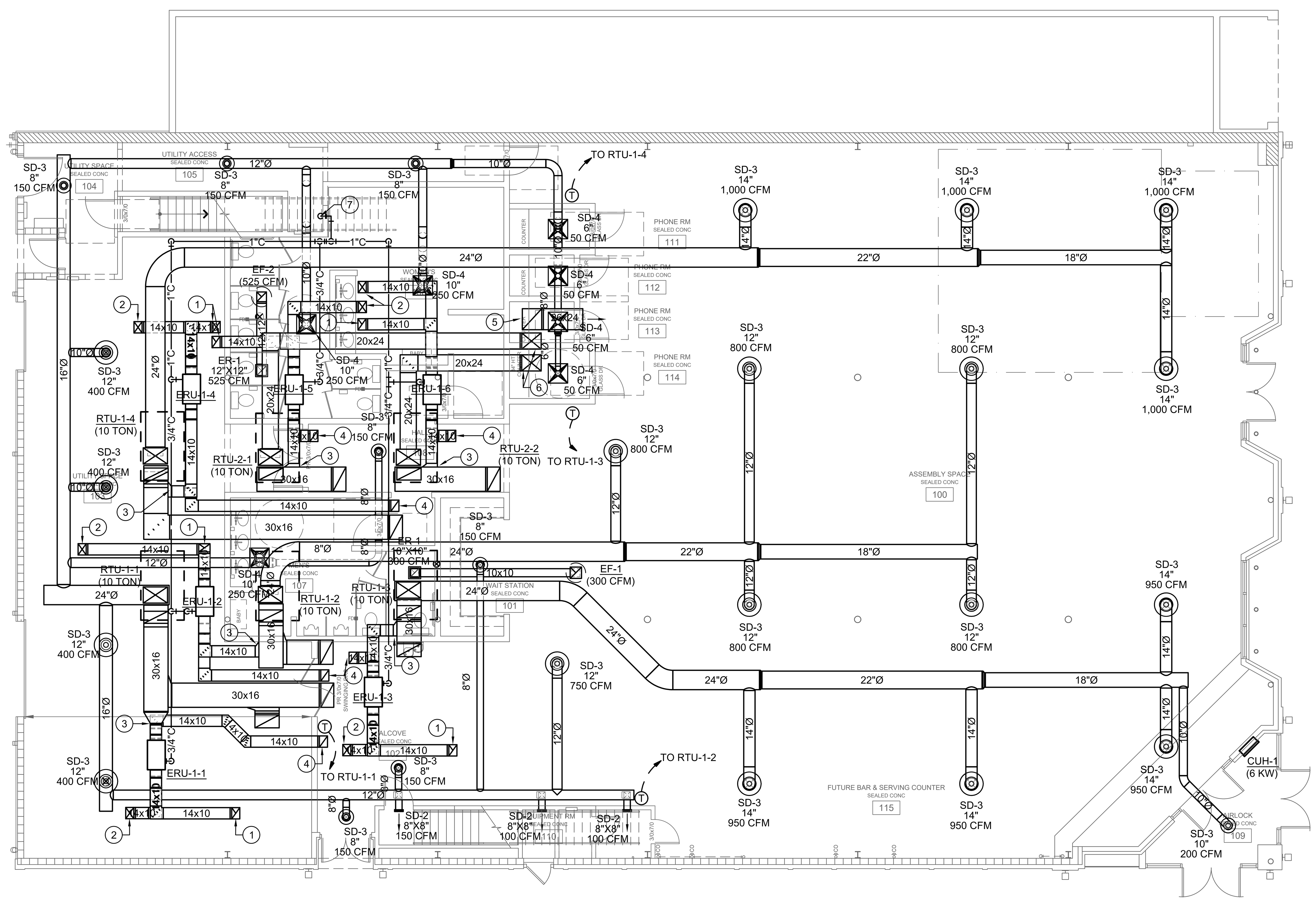
(4) LEAVE ERU RETURN DUCT OPEN FOR RETURN AIR FROM SPACE.

(5) 26"X24" TRANSFER AIR DUCT DOWN FROM FLOOR ABOVE.

(6) 20"X24" SUPPLY AIR DUCT UP TO FLOOR ABOVE.

(7) 1-1/2" HVAC CONDENSATE DOWN TO JANITOR'S SINK BELOW.

DUCT INSULATION SCHEDULE	
INDOOR SUPPLY AIR DUCT	FIBERGLASS BLANKET: 1-1/2" THICK, 0.75-LB/CU. FT
INDOOR RETURN AIR DUCT	FIBERGLASS BLANKET: 1-1/2" THICK, 0.75-LB/CU. FT
INDOOR EXHAUST DUCT	NONE
OUTDOOR SUPPLY AIR DUCT	FIBERGLASS BLANKET: 3" THICK, 1.5-LB/CU. FT WITH PAINTABLE ALUMINUM JACKET
OUTDOOR EXHAUST AIR DUCT	FIBERGLASS BLANKET: 3" THICK, 1.5-LB/CU. FT WITH PAINTABLE ALUMINUM JACKET



1 FIRST FLOOR PLAN - MECHANICAL
1/8"=1'-0"

6-03-23

WELLINGTON WOOLWORTH — COMMUNITY 101
101-103 SOUTH WASHINGTON AVE
WELLINGTON, KANSAS 67152

GC: DECENT ENERGY, INC.

DEVELOPER: STOMATA DEVELOPMENT, LLC

AEC
ARCHITECTURAL ENGINEERING CONSORTIUM, INC
MECHANICAL • ELECTRICAL • PLUMBING STRUCTURAL • FIRE PROTECTION
WWW.AECONSORT.COM
10233 MILLSTONE DRIVE, #4112
LENEXA, KS 66220
P: 816-916-4675

JOB NO.:	23108
DATE:	05/03/2023
REVISIONS:	
DESIGNED BY:	MBW
DRAWN BY:	ELS
CHECKED BY:	MBW
SHEET NO.	M1

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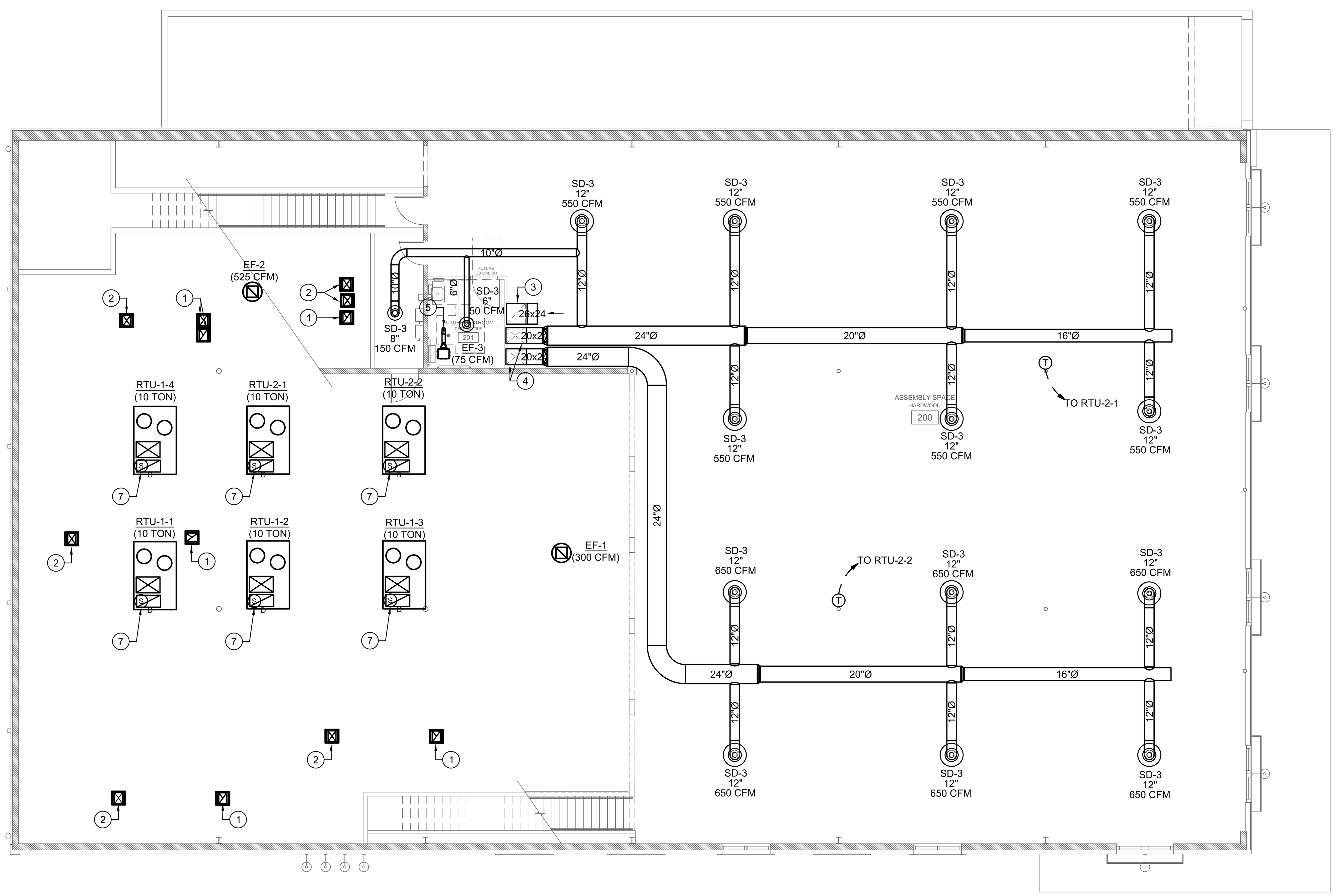
(3) 26"X24" TRANSFER AIR DUCT DOWN TO FLOOR BELOW.

(4) 20"X24" SUPPLY AIR DUCT UP FROM FLOOR BELOW.

(5) 4"Ø EXHAUST DUCT UP THROUGH ROOF ABOVE. TERMINATE WITH APPROVED FITTING EQUIPPED WITH INSECT SCREEN AND GRAVITY RELIEF DAMPER.

(6) 4"Ø GAS WATER HEATER FLUE AND 4"Ø COMBUSTION AIR. TERMINATE WITH APPROVED FITTINGS.

(7) DUCT DETECTOR TO BE INSTALLED IN THE RETURN DUCT OF THE UNIT BY THE FIRE ALARM CONTRACTOR. DETECTOR TO DISCONNECT POWER TO THE ROOFTOP UNIT UPON ACTIVATION AND SIGNAL THE FIRE ALARM CONTROL PANEL. PROVIDE LABELS ON CEILING GRID BELOW INDICATING WHERE THE SMOKE DETECTOR IS LOCATED.



1 SECOND FLOOR PLAN - MECHANICAL
1/8"=1'-0"

n

6-03-23

WELLINGTON WOOLWORTH — COMMUNITY 101
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JOB NO.:	23108
DATE:	05/03/2023
REVISIONS:	
DESIGNED BY:	MBW
DRAWN BY:	ELS
CHECKED BY:	MBW
SHEET NO.	M2

ENERGY RECOVERY UNIT SCHEDULE

UNIT CALLOUT	UNIT INFORMATION																	FAN INFORMATION				FILTER TYPE	COMMENTS
	SYSTEM	MFG	MODEL NO.	VOLT/PH	MCA	MOCP (AMPS)	SUMMER AIR TEMP (°F)				WINTER AIR TEMP (°F)				SUPPLY		EXHAUST						
							SUPPLY CFM	OUTDOOR CFM	RETURN CFM	EXHAUST CFM	SUPPLY DB/WB	OUTDOOR DB/WB	RETURN DB/WB	EXHAUST DB/WB	SUPPLY DB/WB	OUTDOOR DB/WB	RETURN DB/WB	EXHAUST DB/WB	CFM	E.S.P. (IN. H₂0)	CFM	E.S.P. (IN. H₂0)		
ERU-1-1	RTU-1-1	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1
ERU-1-2	RTU-1-2	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1
ERU-1-3	RTU-1-3	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1
ERU-1-4	RTU-1-4	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1
ERU-2-1	ERU-2-1	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1
ERU-2-1	ERU-2-1	FANTECH	SER 700	120/1	5.58	15	560	560	560	415	80/67	96/76	74/62	74/62	35/4	4.5/4	70/34	70/34	560	0.8	415	0.8	1" THROWAWAY	1

NOTES:
1. SUPPLY WITH FACTORY CONTROLS. WIRE SUCH THAT UNIT ENERGIZES WHEN RTU SUPPLY FAN IS RUNNING.

ROOF TOP UNIT SCHEDULE

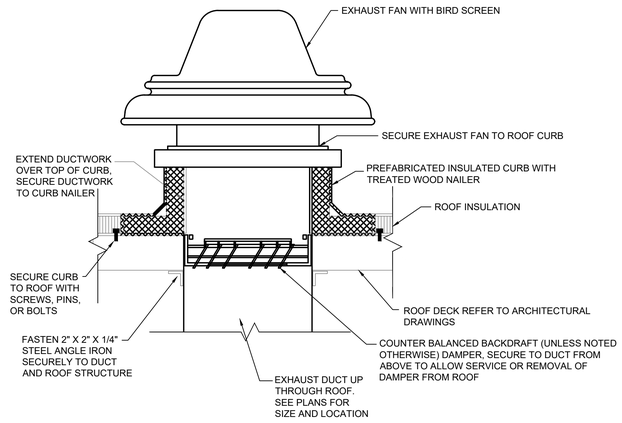
UNIT CALLOUT	WEIGHT (LBS)	NOMINAL TONS	UNIT INFORMATION								GAS BURNER INFORMATION						DX COIL INFORMATION							FILTER TYPE	NOTES
			MFG	MODEL NO.	VOLT/ PHASE	MCA	MOCP (AMPS)	EXT STATIC (IN WC)	FLOW (CFM)	HP	GAS TYPE	EFF. (%)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	SHC (MBH)	THC (MBH)	STEPS (#)	FAN NUM	# OF COMP	AMB TEMP (°F)		
RTU-1-1	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2
RTU-1-2	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2
RTU-1-3	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2
RTU-1-4	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2
RTU-2-1	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2
RTU-2-2	1300	10	DAIKIN	DBG120	480/3	23	30	0.9	4000	3	NAT	80	210	200	65	111.3	80	55	108.0	120	3	2	2	100	2" PLEATED	1,2

NOTES:
1. SUPPLY UNIT WITH THE FOLLOWING OPTIONS:
   - A. FACTORY ROOF CURB/ CURB ADAPTOR.
   - B. CONDENSER COIL HAIL GUARDS.
   - C. ECONOMIZER WITH BAROMETRIC RELIEF, SET TO OPERATE AT 55 DEG F AND BELOW. ECONOMIZER SHALL BE SHIPPED LOOSE TO EXPEDITE LEAD TIMES.
   - D. OUTDOOR AND RELIEF AIR HOODS, WITH INSECT SCREEN.
   - E. 2 STAGE COOLING, PROGRAMMABLE THERMOSTAT WITH # OF HEATING STAGES TO MATCH UNIT FURNISHED.
   - F. LOW AMBIENT KIT FOR COOLING OPERATION DOWN TO ZERO DEGREES F.
   - G. THE UNIT SUPPLY FAN SHALL BE SET TO AUTO.
   - H. VARIABLE SPEED COOLING CAPACITY.
   - I. HINGED ACCESS DOORS
   - J. FACTORY CONTROLLER..
2. SUPPLY WITH 2 COMPRESSORS.

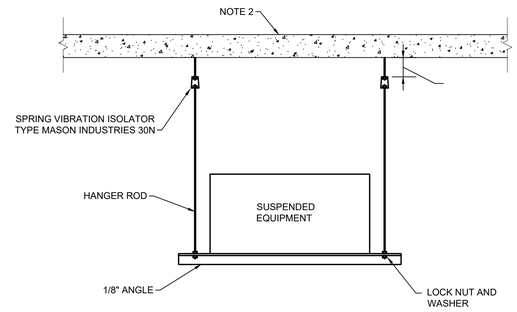
EXHAUST FAN SCHEDULE

UNIT CALLOUT	UNIT INFORMATION							NOTES
	MFG	MODEL NO.	TYPE	EXT STATIC (IN WC)	FLOW (CFM)	HP	VOLT/ PHASE	
EF-1	COOK	ACE	DNBLAST	0.5	300	1/3	120/1	1,2
EF-2	COOK	ACE	DNBLAST	0.5	525	1/3	120/1	1,2
EF-3	PANASONIC	FV05-11	INLINE	0.3	75	1/20	120/1	2

NOTES:
1. SUPPLY WITH FACTORY STARTER, ECM MOTOR WITH SPEED CONTROLLER, DISCONNECT, INSECT SCREEN AND ROOF CURB.
2. CONTROL UNIT WITH LIGHT OCCUPANCY SENSOR.

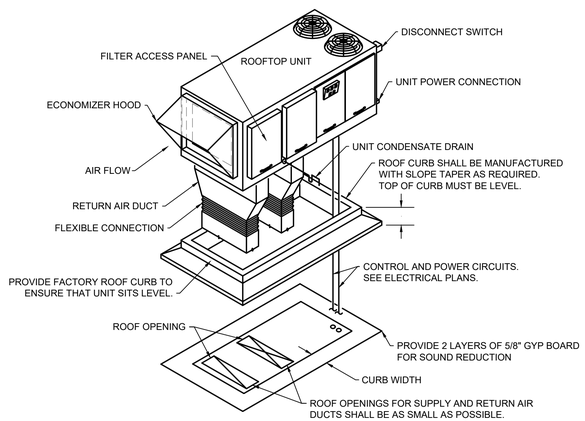


3 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE



NOTES:
1. HANGER SPACING ALONG LENGHT OF UNIT TO BE AS FOLLOWS: MINIMUN - 2 HANGERS MAXIMUM SPACING 6'-0".
2. ATTACH TO STRUCTURE ABOVE.

5 SUSPENDED EQUIPMENT HANGING DETAIL
NO SCALE



NOTES:
1. INSTALL ROOFTOP UNIT PER MANUFACTURER'S RECOMMENDATION AND INSTALLATION MANUAL.
2. COORDINATE ROOF OPENINGS WITH STRUCTURAL DRAWINGS.
3. DUCT TRANSITIONS SHALL BE MADE IN THE TRUSS SPACE ABOVE THE CEILING AND BELOW THE ROOF.

2 ROOFTOP UNIT INSTALLATION DETAIL
NO SCALE

Az= Floor area
P_{Z}= Zone Population
Rp= People Outdoor Air Rate
Ra= Area Outdoor Air Rate

RTU-1-1 Ventilation Calculation — 10 Ton

Room Name	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Assembly Space 100	Reception	30	300	9	5	0.06	0.8	63	79
Assembly Space 100	Corridor	0	0	0	0	0.06	0.8	0	0
Alcove 102	Corridor	0	365	0	0	0.06	0.8	22	27
Utility Space 103	Storage Rm	0	785	0	0	0.12	0.8	94	118
Utility Space 103	Corridor	0	785	0	0	0.06	0.8	47	59
Utility Space 104	Storage Rm	0	150	0	0	0.12	0.8	18	23
Utility Access 105	Corridor	0	220	0	0	0.06	0.8	13	17
Women 106	Toilet Room	0	610	0	0	0	0.8	0	0
Men 107	Toilet Room	0	295	0	0	0	0.8	0	0
Hall 108	Corridor	0	225	0	0	0.06	0.8	14	17
Equipment Room 110	Storage Rm	0	80	0	0	0.12	0.8	10	12
Phone Rm 111	Office Space	5	40	0	5	0.06	0.8	3	4
Phone Rm 112	Office Space	5	35	0	5	0.06	0.8	3	4
Phone Rm 113	Office Space	5	35	0	5	0.06	0.8	3	4
Phone Rm 114	Office Space	5	40	0	5	0.06	0.8	3	4
			Vot						367 cfm

RTU-1-2 Ventilation Calculation — 10 Ton

10	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Assembly Space 100	Reception	30	1800	54	5	0.06	0.8	378	473
Assembly Space 100	Corridor	0	0	0	0	0.06	0.8	0	0
			Vot						473 cfm

RTU-1-3 Ventilation Calculation — 10 Ton

Room Name	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Assembly Space 100	Reception	30	1800	54	5	0.06	0.8	378	473
Assembly Space 100	Corridor	0	0	0	0	0.06	0.8	0	0
Airlock 109	Corridor	0	115	0	0	0.06	0.8	7	9
			Vot						481 cfm

RTU-1-4 Ventilation Calculation — 10 Ton

10	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Assembly Space 100	Reception	30	1800	54	5	0.06	0.8	378	473
Assembly Space 100	Corridor	0	0	0	0	0.06	0.8	0	0
			Vot						473 cfm

RTU-2-1 Ventilation Calculation — 10 Ton

Room Name	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Utility Space 201	Storage Rm	0	85	0	0	0.12	0.8	10	13
Assembly Space 200	Reception	30	2470	74	5	0.06	0.8	519	648
Assembly Space 200	Corridor	0	0	0	0	0.06	0.8	0	0
Future Restroom 201	Toilet Room	0	85	0	0	0	0.8	0	0
			Vot						661 cfm

RTU-2-2 Ventilation Calculation — 10 Ton

Room Name	Occupancy Classification	Occupant Density	Az	Pz	Rp	Ra	Ez	Vbz	Voz
Assembly Space 200	Reception	30	2640	79	5	0.06	0.8	554	693
Assembly Space 200	Corridor	0	0	0	0	0.06	0.8	0	0
			Vot						693 cfm

4 VENTILATION CALCULATIONS
NO SCALE

GENERAL

1	MECHANICAL NOTE REFERENCE
2	DEMOLITION NOTE REFERENCE
3	REVISION NOTE REFERENCE
	CONNECT TO EXISTING WORK

HVAC

D	HVAC CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
T	THERMOSTAT (MOUNT AT 44" AFF)
T_S	TEMPERATURE SENSOR (MOUNT AT 54" AFF)
S_D	DUCT MOUNTED SMOKE DETECTOR
	SUPPLY DIFFUSER
	RETURN GRILLE/EXHAUST REGISTER
	RETURN AND EXHAUST AIR FLOW INDICATOR
	DUCT MOUNTED MANUAL BALANCING DAMPER
FD FVD SD	DUCT MOUNTED FIRE/SMOKE, FIRE, AND SMOKE DAMPER

1 MECHANICAL SYMBOLS
NO SCALE

6-03-23

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PLAN NOTES:

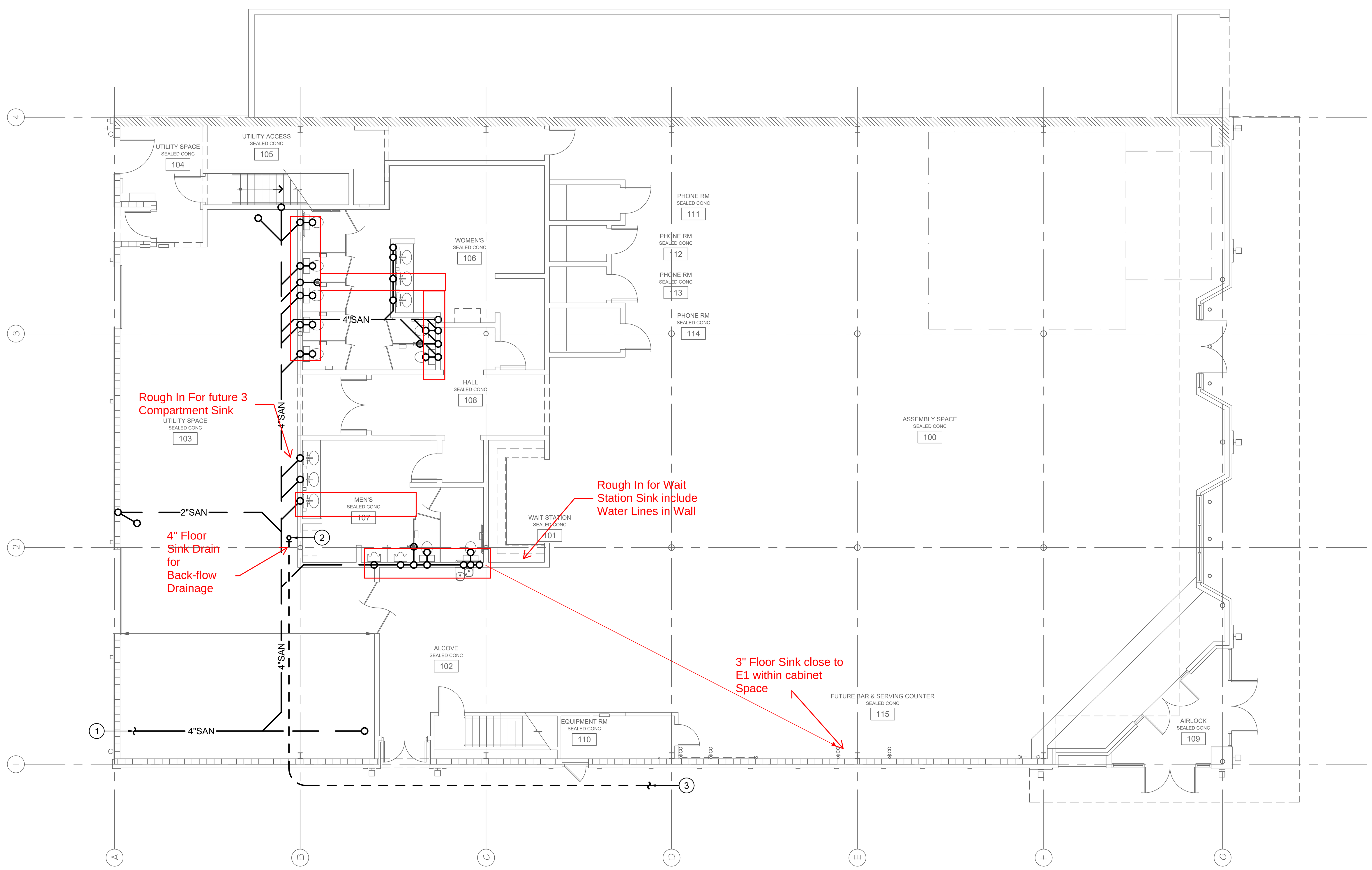
(1) CONNECT NEW 4" SANITARY TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION.

(2) 2" CW UP TO FLOOR ABOVE.

(3) 2" CW (PEX), EXTEND AND CONNECT TO EXISTING CW SUPPLY LINE.

PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1,2	1/2"	1/2"	2"	1-1/2"
ELECTRIC WATER COOLER	EWC-1	1/2"	--	2"	1-1/2"
FLUSH TANK WATER CLOSET	WC-1	1/2"	--	3"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
URINAL	U-1	3/4"	--	3"	2"
NON FREEZE ROOF HYDRANT	NFRH-1	3/4"	--	--	--
FLOOR SINK	FS-1		--	3"	2"
FLOOR DRAIN	FD-1	1/2"	--	2"	1-1/2"



1 UNDERSLAB FLOOR PLAN - PLUMBING
1/8"=1'-0"

C:\USERS\WELCH\DESKTOP\MWEC\2023\23110OE – WOOLWORTH BUILDING\DRAWINGS\WOOLWORTH BUILDING PLUMBING.DWG : 6/5/2023 10:20:40 AM : eshum

MICHAEL B. WELCH 23334 KANSAS PROFESSIONAL ENGINEER 6-03-23

WELLINGTON WOOLWORTH — COMMUNITY 101
101-103 SOUTH WASHINGTON AVE
WELLINGTON, KANSAS 67152

GC: DECENT ENERGY, INC.

DEVELOPER: STOMATA DEVELOPMENT, LLC

AEC
ARCHITECTURAL ENGINEERING CONSORTIUM, INC
MECHANICAL • ELECTRICAL • PLUMBING
STRUCTURAL • FIRE PROTECTION
WWW.AECONSORT.COM
10233 MILLSTONE DRIVE, #4112
LENEXA, KS 66220
P: 816-916-4675

JOB NO.: 23108
DATE: 05/03/2023
REVISIONS:

DESIGNED BY: MBW
DRAWN BY: ELS
CHECKED BY: MBW
SHEET NO.
P1

GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DISCIPLINE'S DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM AS BUILT DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE DEMOLITION WORK AND NEW WORK WITH EXISTING CONDITIONS AND OTHER TRADES PRIOR TO CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE PLUMBING SYSTEMS. VERIFY CHASE AND PENETRATION LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING MEET REQUIREMENTS.
4. INSTALL PIPING PARALLEL TO BUILDING LINES, UNLESS NOTED OTHERWISE.
5. COORDINATE LOCATION OF EQUIPMENT AND SUPPORTS WITH LOCATION OF ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT. IF NO ACCESS PANEL IS SHOWN, PROVIDE ACCESS PANEL IN SIZE REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
6. SEAL PENETRATIONS THROUGH BUILDING COMPONENTS IN ACCORDANCE WITH LOCAL CODES. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. FIRE RATED COMPONENTS INCLUDE BUT ARE NOT LIMITED TO THE RATED CEILING ASSEMBLY LOCATED WITHIN THE ATTIC SPACE. REFER TO THE ARCHITECTURAL PLANS FOR ANY ADDITIONAL RATED COMPONENTS.

PLAN NOTES:

1. 2" CW FROM BELOW SLAB, PROVIDE 2" RPZ TYPE BACK FLOW PREVENTOR.
2. 4" SANITARY DOWN TO BELOW SLAB.
3. 1-1/2" CW AND 1-1/2" HW DOWN TO WATER HEATER BELOW.
4. EXTEND DRAIN LINE FROM ROOF HYDRANT DRAIN HOLE. ROUTE AS HIGH AS POSSIBLE AND EXTEND TO FLOOR SINK AT FREEZERS BELOW.
5. 3/4" CW UP TO NFRH-1 ABOVE.
6. 1" GAS DOWN TO WH-1.
7. 4"Ø GAS WATER HEATER FLUE AND 4"Ø COMBUSTION AIR. TERMINATE AT CEILING HEIGHT WITH APPROVED FITTINGS PER MANUFACTURE INSTRUCTIONS.
8. 2-1/2" GAS (1260 CFH, 1/2 PSIG) UP TO ROOF (SEE ROOF PLAN FOR CONTIUATION AND 2-1/2" GAS (1380 CFH, 1/2 PSIG) DOWN TO GRADE. COORDINATE WITH GAS SERVICE PROVIDER AND PROVIDE NEW SINGLE GAS METER AND ALL ASSOCIATED ACCESSORIES REQUIRED BY SERVICE PROVIDER. FIELD VERIFY EXACT LOCATION.

PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1,2	1/2"	1/2"	2"	1-1/2"
ELECTRIC WATER COOLER	EWC-1	1/2"	--	2"	1-1/2"
FLUSH TANK WATER CLOSET	WC-1	1/2"	--	3"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
URINAL	U-1	3/4"	--	3"	2"
NON FREEZE ROOF HYDRANT	NFRH-1	3/4"	--	--	--
FLOOR SINK	FS-1		--	3"	2"
FLOOR DRAIN	FD-1	1/2"	--	2"	1-1/2"

1 FIRST FLOOR PLAN - PLUMBING
1/8"=1'-0"

MICHAEL B. WELCH
13934
KANSAS
PROFESSIONAL ENGINEER
6-03-23

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PLAN NOTES:

(1) 3/4" CONDENSATE DRAIN, ROUTE TO NEAREST ROOF DRAIN OR GUTTER TURN DOWN AND TERMINATE.

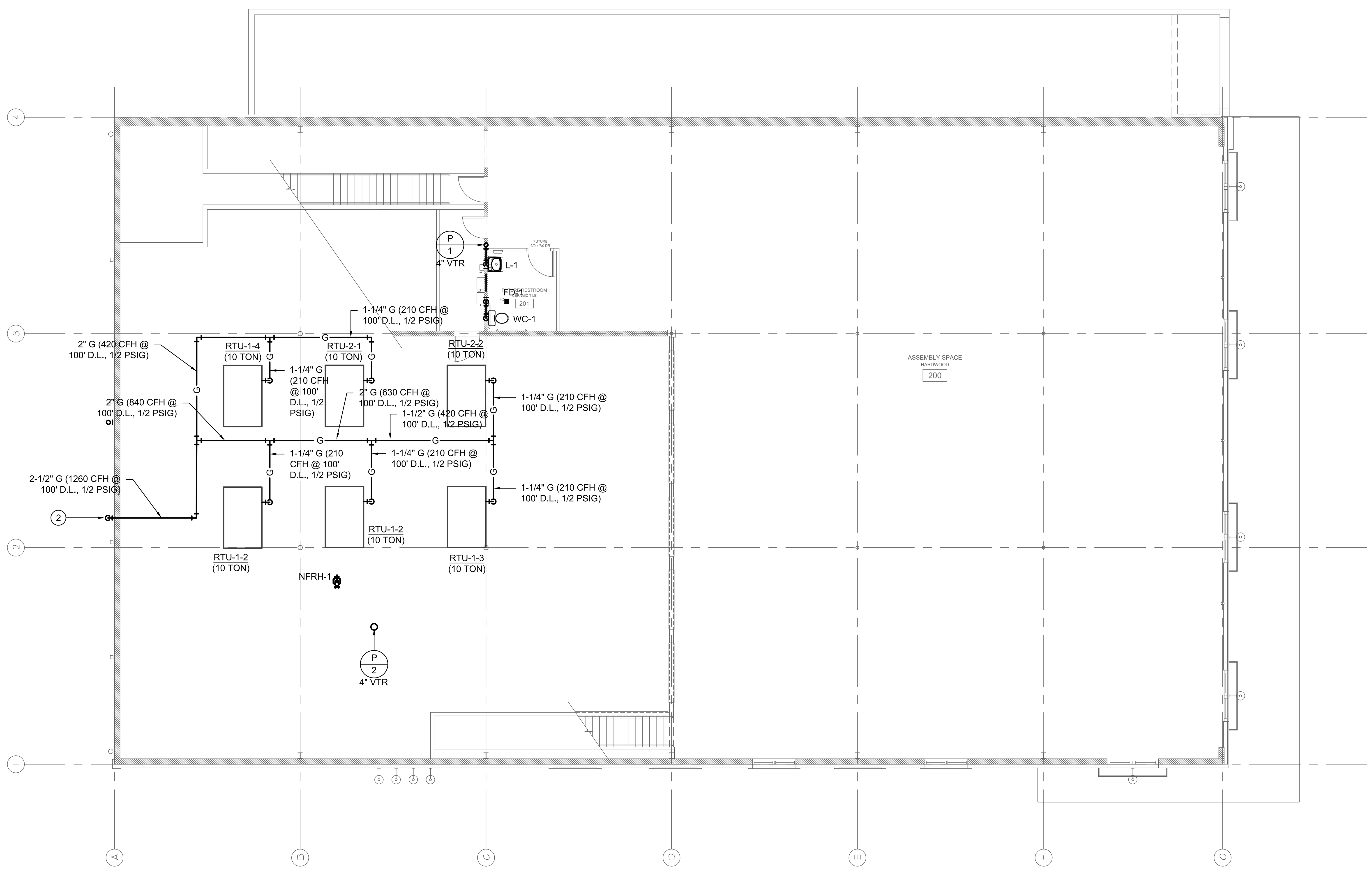
(2) 1" GAS DOWN TO WH-1 BELOW. (120 CFH @ 100 D.L. @ 1/2 PSIG).

(3) 2-1/2" GAS (1380 CFH, 1/2 PSIG) TO BELOW. COORDINATE WITH GAS SERVICE PROVIDER AND PROVIDE NEW SINGLE GAS METER AND ALL ASSOCIATED ACCESSORIES REQUIRED BY SERVICE PROVIDER. FIELD VERIFY EXACT LOCATION.

(4) 4"Ø GAS WATER HEATER FLUE AND 4"Ø COMBUSTION AIR. TERMINATE WITH APPROVED FITTINGS.

PLUMBING FIXTURE CONN. SCHEDULE

FIXTURE	MARK	CW	HW	WASTE	VENT
LAVATORY	L-1,2	1/2"	1/2"	2"	1-1/2"
ELECTRIC WATER COOLER	EWC-1	1/2"	--	2"	1-1/2"
FLUSH TANK WATER CLOSET	WC-1	1/2"	--	3"	2"
JANITOR SINK	JS-1	3/4"	3/4"	3"	2"
URINAL	U-1	3/4"	--	3"	2"
NON FREEZE ROOF HYDRANT	NFRH-1	3/4"	--	--	--
FLOOR SINK	FS-1		--	3"	2"
FLOOR DRAIN	FD-1	1/2"	--	2"	1-1/2"



(1) SECOND FLOOR PLAN - PLUMBING
1/8"=1'-0"

C:\USERS\WELCH\DESKTOP\MMEC\2023\23108OE – WOOLWORTH BUILDING\DRAWINGS\WOOLWORTH BUILDING PLUMBING.DWG : 6/5/2023 10:20:40 AM : eshum

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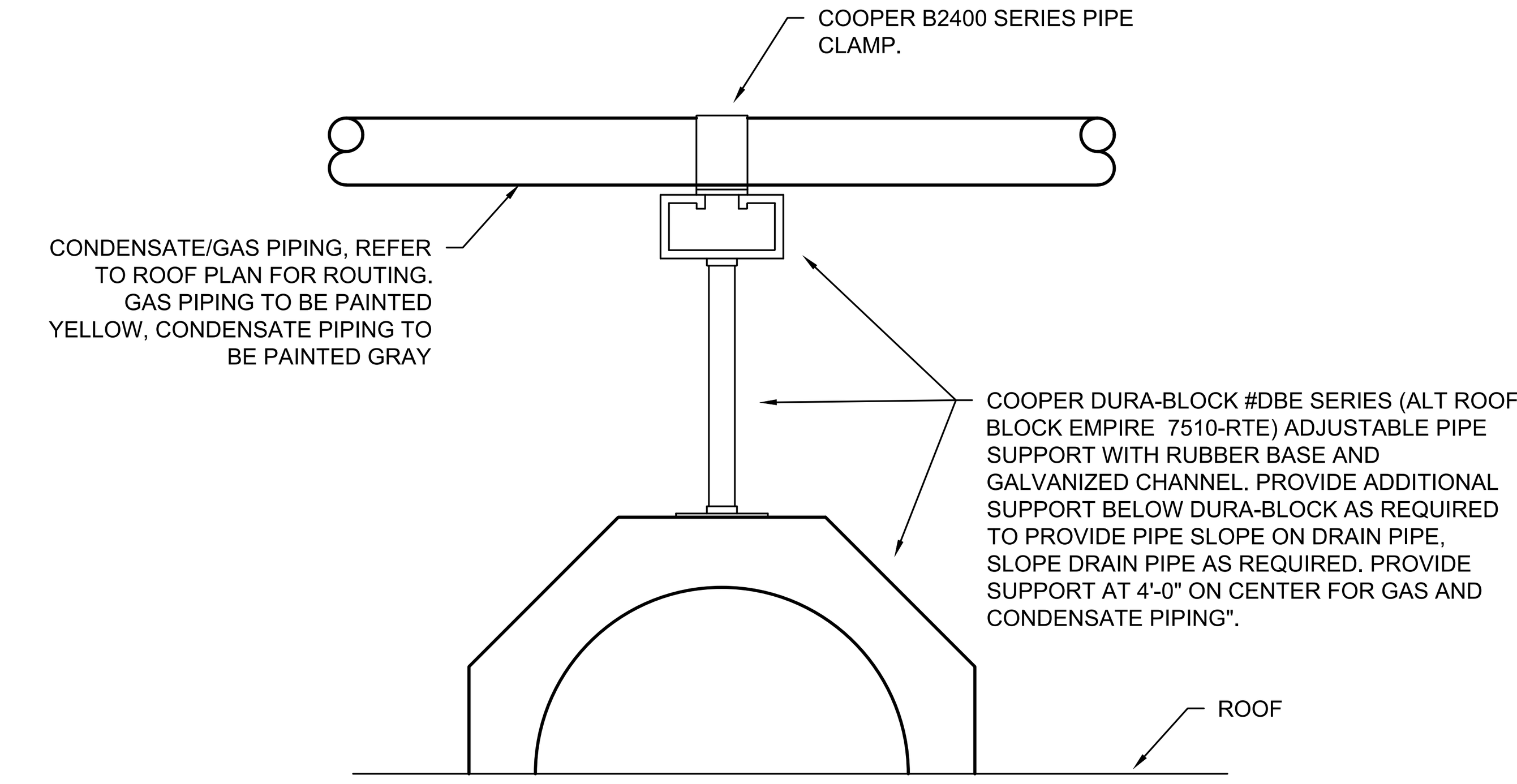
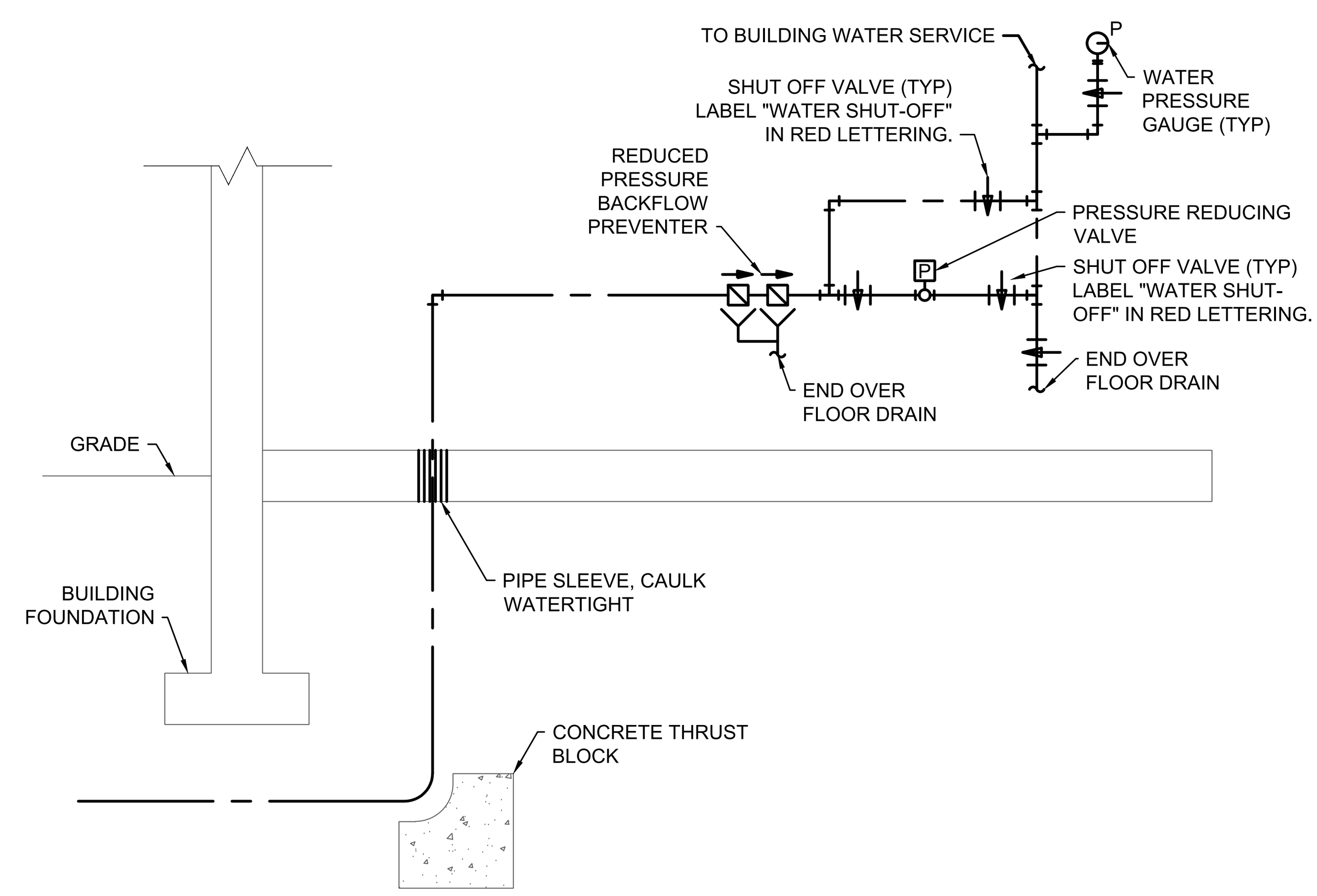
PLUMBING FIXTURE SCHEDULE						
PLAN MARK	MANUFACTURER AND MODEL	FIXTURE DESCRIPTION	ACCESSORIES MANUFACTURER AND MODEL	ACCESSORIES DESCRIPTION	SIZE	NOTES
EWC-1	HALSEY TAYLOR HAC8BLSS-WF	TWO LEVEL, ADA COMPLIANT, BARRIER FREE, STAINLESS STEEL FILTERED WATER COOLER WITH PUSH BAR ACTUATORS			-	
FD-1	JAY R SMITH 2010-P050	CAST IRON SHALLOW SUMP FLOOR DRAIN WITH 5" SQUARE TOP WITH NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.	JAY R SMITH 2699	TRAP PRIMER WITH 1/2" CONNECTION.	-	REFER TO TRAP PRIMER DETAIL FOR CONNECTION.
FD-2	WATTS FD-463P-F	FLOOR DRAIN, 12 INCH SQUARE DUCTILE IRON GRATE, EPOXY COATED CAST IRON	-		-	
L-1	AMERICAN STANDARD LUCERNE 0356.041	VITREOUS CHINA, ADA COMPLIANT, D-SHAPED BOWL WALL HUNG LAVATORY.	AMERICAN STANDARD COLONY 2175.205	SINGLE CONTROL CENTERSET FAUCET WITH METAL LEVER HANDLE.	-	PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN, CHROME PLATED BRASS P-TRAP, ANGLED STOP VALVES AND FLEXIBLE RISERS. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS WITH ADA COMPLIANT INSULATION. SUPPLY WITH POINT OF USE MIXING VALVE THAT COMPLIES WITH ASSE1070. SET OUTLET TEMPERATURE TO 105° F.
L-1	AMERICAN STANDARD AQUALYN 0476.028	OVAL, SELF RIMMING, ADA COMPLIANT, VITREOUS CHINA OVAL LAVATORY.	COLONY 2175.205	SINGLE CONTROL LAVATORY FAUCET.	-	PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN, CHROME PLATED BRASS P-TRAP, ANGLED STOP VALVES AND FLEXIBLE RISERS. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS WITH ADA COMPLIANT INSULATION. SUPPLY WITH POINT OF USE MIXING VALVE THAT COMPLIES WITH ASSE1070. SET OUTLET TEMPERATURE TO 105° F.
NFRH-1	JAY R SMITH 5906	NON-FREEZE ROOF HYDRANT WITH GALVANIZED CASING AND ADJUSTABLE FLOW WHEEL LOCK HANDLE WITH DECK FLANGE AND UNDER DECK CLAMP.				
U-2	AMERICAN STANDARD WASHBROOK 6501.511	WALL HUNG, VITREOUS CHINA URINAL WITH WASH OUT FLUSHING ACTION AND TOP SPUD. MOUNT AT ADA HEIGHT. CHROME PLATED, EXPOSED WATER CLOSET 1.0 GPF FLUSH VALVE WITH 3/4" TOP SPUD.	1.) JAY R SMITH	1.) PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION.	-	
WC-1	AMERICAN STANDARD CADET 3 FLOWISE 2832.128	ADA COMPLIANT, FLOOR MOUNTED, FLUSH TANK, VITREOUS CHINA WATER CLOSET.	CHURCH 9500 C	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	-	



7 PIPE ROOF SUPPORT DETAIL
NO SCALE

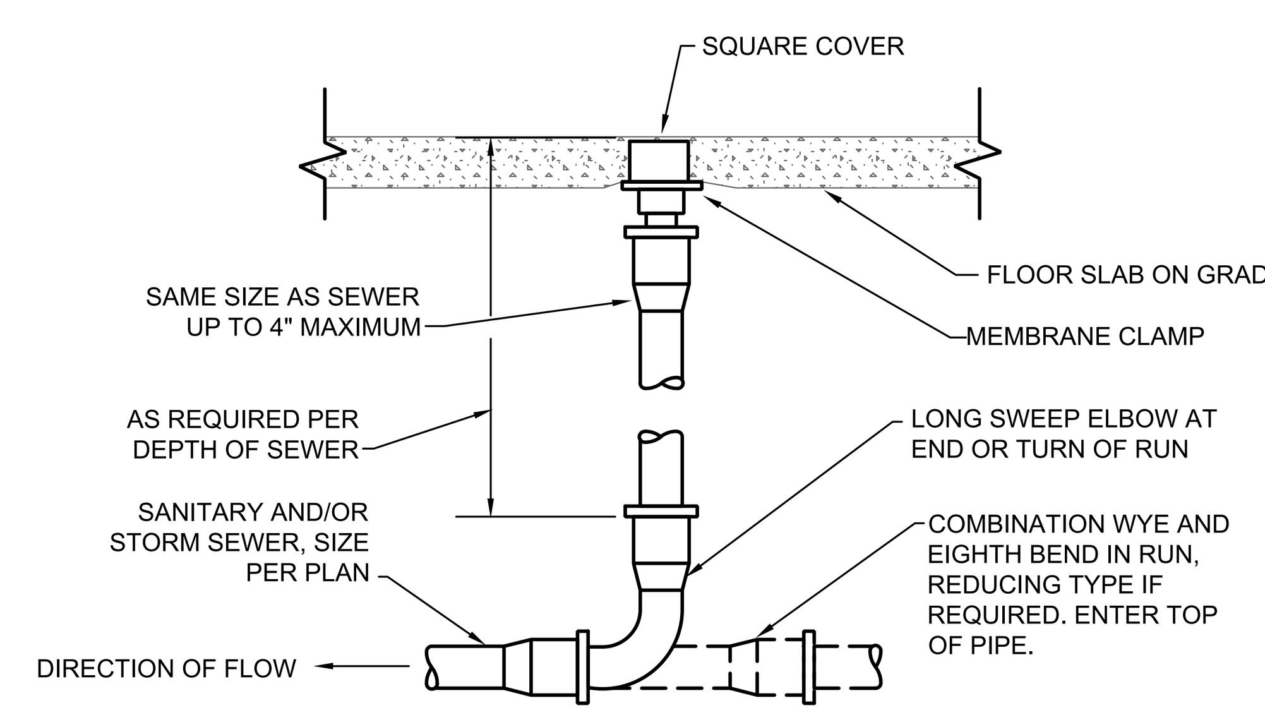
INSTANTANEOUS GAS WATER HEATER SCHEDULE									
UNIT CALLOUT	UNIT INFORMATION								NOTES
	MFG	MODEL NO.	FLOW (GPM)	EWT (°F)	LWT (°F)	TOTAL INPUT (MBH)	VOLT/ PH		
WH-1	BOSCH	C1050ES	9.4	40	115	199	120/1		1

NOTES:
1. SUPPLY WITH FACTORY CONTROL PANEL. MANIFOLD ALL UNITS TOGETHER TO ACHIEVE 15 GPM OF WATER FLOW AT 75 DEGREE F TEMPERATURE RISE.



5 DOMESTIC WATER SERVICE DETAIL
NO SCALE

PIPE INSULATION SCHEDULE	
DOMESTIC COLD WATER	PREFORMED FIBERGLASS WITH ASJ : 1" THICK, 3.5-LB/CU. FT
DOMESTIC HOT WATER	PREFORMED FIBERGLASS WITH ASJ : 1" THICK, 3.5-LB/CU. FT
DOMESTIC RECIRCULATING HOT WATER	PREFORMED FIBERGLASS WITH ASJ : 1" THICK, 3.5-LB/CU. FT
INTERIOR HVAC CONDENSATE	ARMAFLEX: 1/2" THICK
REFRIGERANT LINES	ARMAFLEX: 1/2" THICK



6 PVC FLOOR CLEANOUT DETAIL
NO SCALE

GENERAL

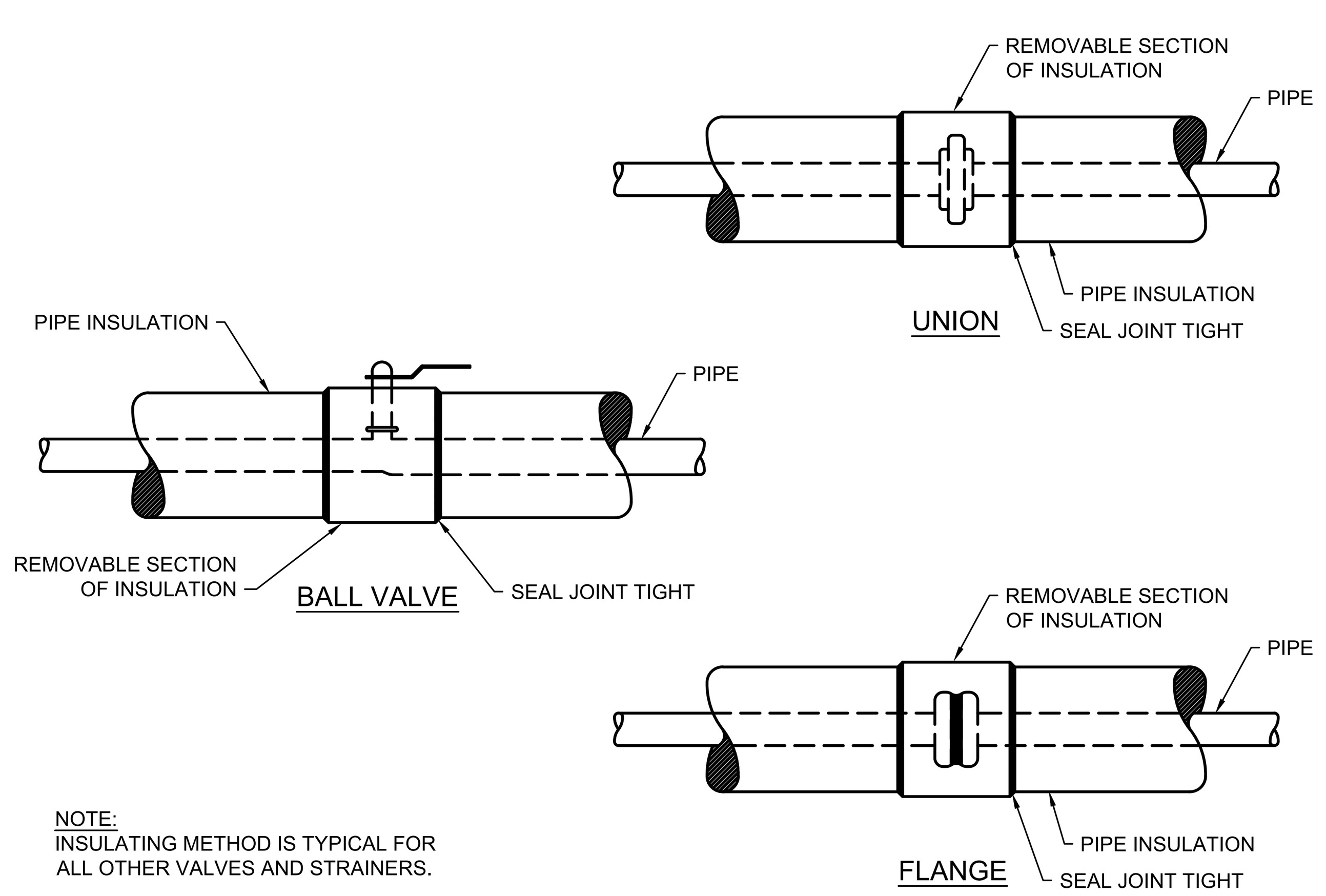
- (1) MECHANICAL NOTE REFERENCE
- (2) DEMOLITION NOTE REFERENCE
- (3) REVISION NOTE REFERENCE
- CONNECT TO EXISTING WORK

PLUMBING

- —SAN— SOIL OR WASTE ABOVE GRADE OR FLOOR
- – –SAN– – SOIL OR WASTE BELOW GRADE OR FLOOR
- – – –V– – – PLUMBING VENT
- —ST— STORM ABOVE GRADE OR FLOOR
- – – ST – – STORM BELOW GRADE OR FLOOR
- —ST/O— STORM OVERFLOW ABOVE GRADE OR FLOOR
- – – ST/O – – STORM OVERFLOW BELOW GRADE OR FLOOR
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- RECIRCULATING DOMESTIC HOT WATER
- FCO FLOOR CLEAN OUT
- WCO WALL CLEAN OUT
- CO CLEAN OUT
- G GAS (NATURAL)
- HB HOSE BIBB
- WH WALL HYDRANT
- FLOOR SINK, FLOOR DRAIN, AREA DRAIN
- RD ROOF DRAIN
- ORD OVERFLOW ROOF DRAIN
- REDUCED PRESSURE BACKFLOW PREVENTER
- P # PLUMBING VENT RISER CALL-OUT
- ELBOW DOWN
- ELBOW UP
- TEE UP
- TEE DOWN
- UNION
- CAP
- BALL (SHUTOFF) VALVE

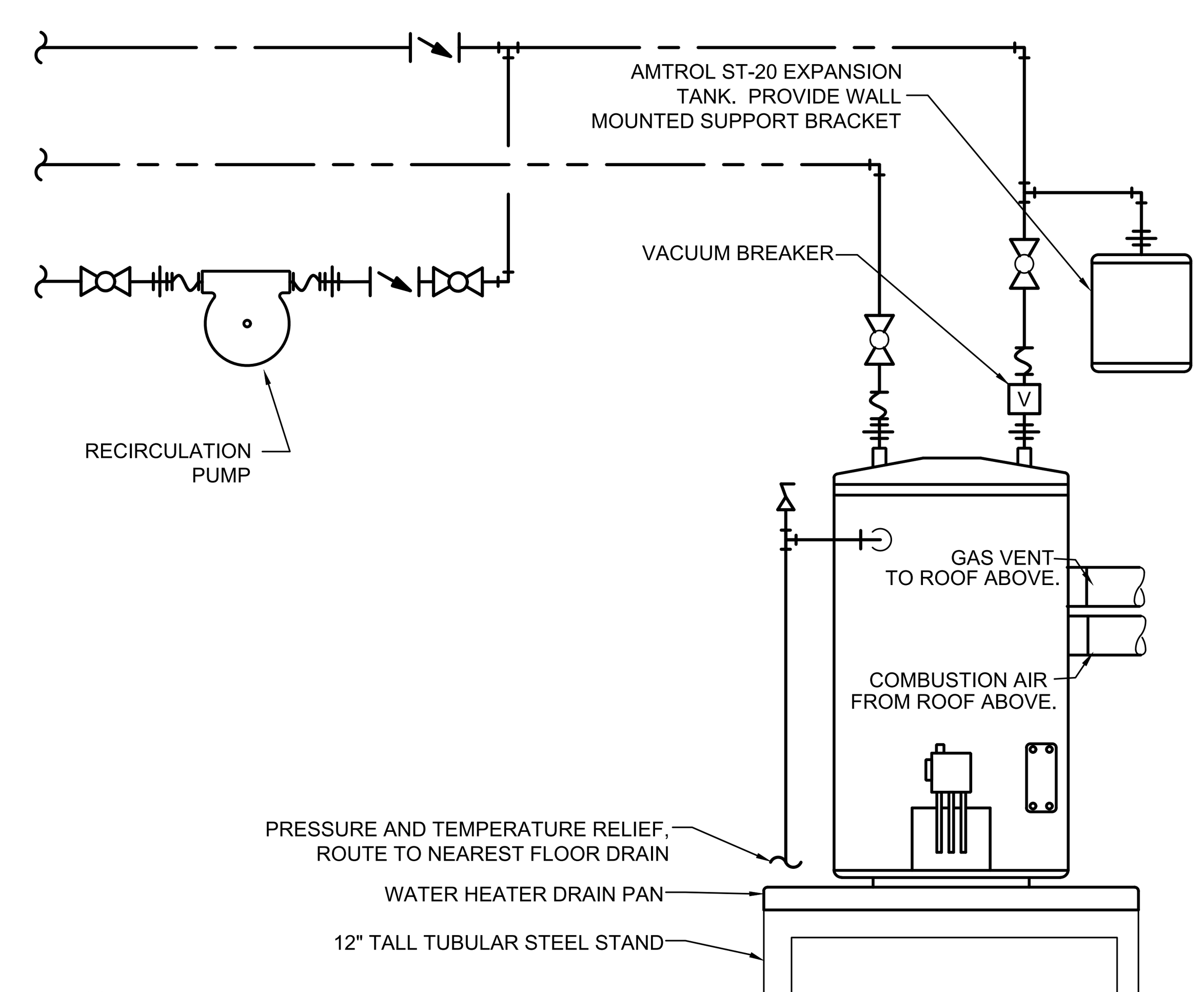
BFP	BACK FLOW PREVENTOR
CO	CLEAN OUT
CW	DOMESTIC COLD WATER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS (NATURAL)
GCO	GRADE CLEAN OUT
HW	DOMESTIC HOT WATER
RHW	DOMESTIC RECIRCULATION HOT WATER
SAN	SANITARY
VTR	VENT THROUGH ROOF
WCO	WALL CLEAN OUT

4 PLUMBING SYMBOLS & ABBREVIATIONS
NO SCALE

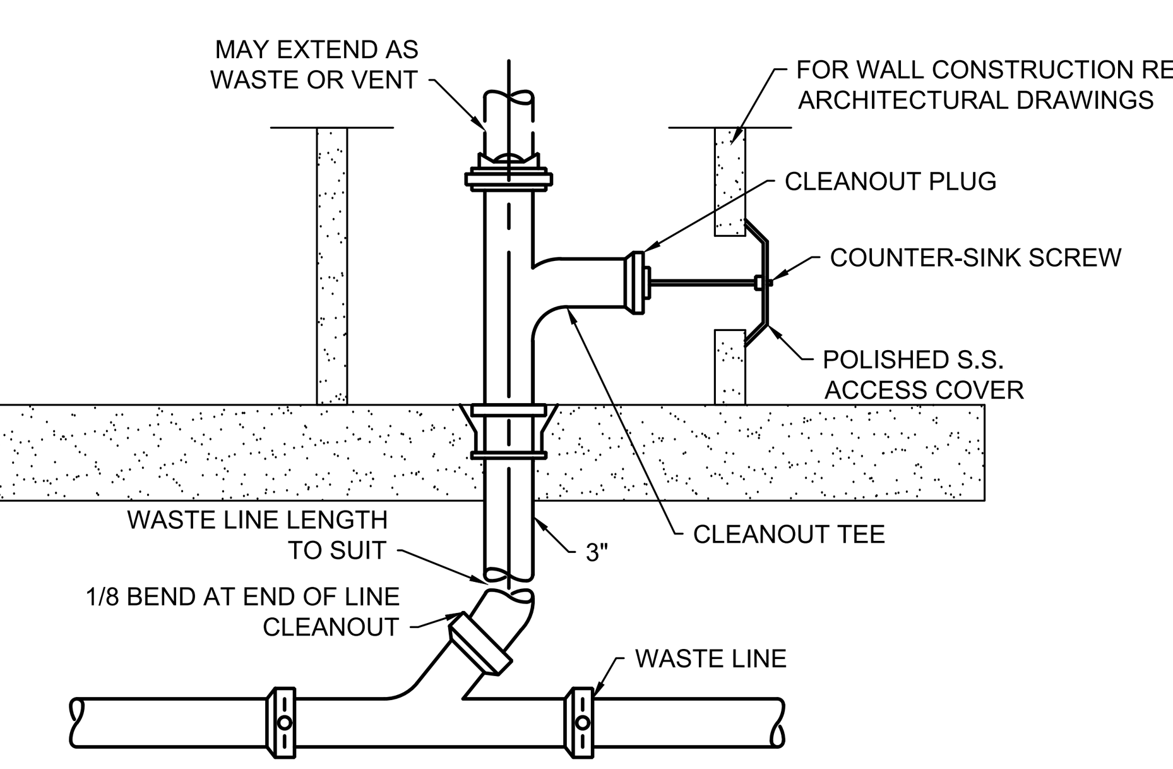


NOTE:
INSULATING METHOD IS TYPICAL FOR ALL OTHER VALVES AND STRAINERS.

3 PIPE INSULATION DETAILS
NO SCALE



2 GAS WATER HEATER DETAIL
NO SCALE



1 PVC WALL CLEANOUT DETAIL
NO SCALE

MICHAEL ... 334 KANSAS PROFESSIONAL ENGINEER 6-03-23

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