#### SCOPE OF WORK

REUSE THREE EXISTING 5.0 TON ELECTRIC HEAT ROOF TOP UNITS. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM.

PROVIDE 2 NEW RESTROOM EXHAUST FANS & 2 NEW OTHER EXHAUST FANS AND 2 NEW INLINE DRAFT INDUCER AS SHOWN IN PLAN.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT.

#### MECHANICAL PLAN NOTES

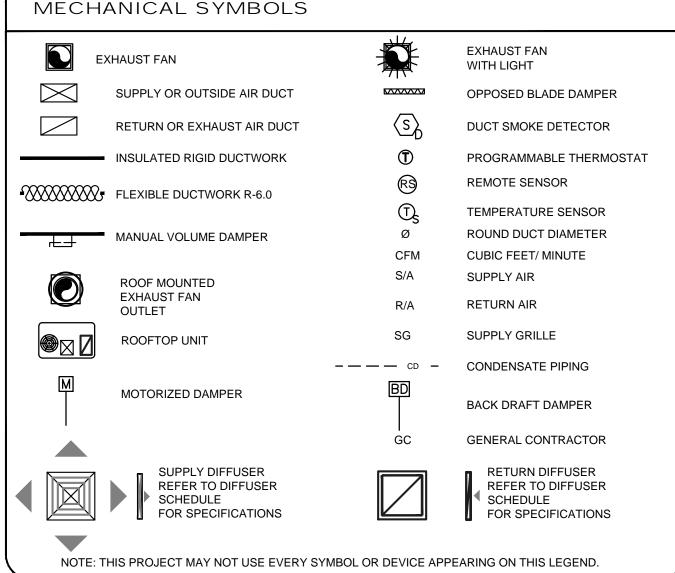
- 1. REUSE THREE EXISTING 5.0 TON ELECTRIC HEAT ROOF TOP UNITS. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AIR DUCT CONNECTIONS. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO ROOF TOP UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- FOR SYSTEM OVER 2,000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF 2023 FMC 8<sup>th</sup> EDITION SEC. 606.2.1, INTERLOCKED TO SHUTDOWN ROOF TOP UNIT UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING. SMOKE DETECTOR SHALL MEET UL268A
- ALL DUCTS SHALL BE MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION FOR CONCEALED DUCTS AND ALL EXPOSED DUCTS WITH INTERNAL INSULATION. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A.
- THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. COORDINATE LOCATION OF THERMOSTAT.
- . ALL INDOOR DUCT AND PLENUM INSULATION SCHEDULE;
- 1. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN, OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION:
- 2. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH

MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS:						
	SA PLENUM	RA PLENUM				
UNCONDITIONED SPACES:	R-4.2	R-4.2				
UNVENTED ATTIC ABOVE INSULATED CEILING:	R-6	R-4.2				
EXTERIOR OF BUILDING:	R-6	R-4.2				

- MATERIALS AND OTHERS APPROVED BY LATEST SMACNA. SEALING MATERIALS WILL BE USED. G. ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE A/C SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.

ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE

- I. ALL ROOF TOP UNITS UNIT CONDENSATE DRAINS WILL BE PVC FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST APPROVED PLACE OF DISPOSAL.
- ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.
- HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.
- ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- PROVIDE FIRE/SMOKE +SMOKE COMBINATION DAMPERS WHEREVER REQUIRED.COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SMOKE/FIRE RATING OF THE WALLS/SLABS/ROOF.COORDINATE ELECTRICAL POWER REQUIREMENT FOR DAMPER ACTUATORS WITH ELECTRICAL CONTRACTOR.
- MAINTAIN MIN. 10 FT. DISTANCE BETWEEN ALL EXHAUST AIR SOURCES AND OUTSIDE AIR INTAKE SOURCES ON THE ROOF.



#### GENERAL NOTES

- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.
- COORDINATE WITH THE WORK OF OTHERS SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.
- VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF UNEXPECTED DIFFICULTIES.
- ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION.
- G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- IF APPLICABLE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR KITCHEN VENTILATION SYSTEM INCLUDING TYPE 1 HOOD AND FOR THE WALK-IN COOLER & FREEZER.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.

#### OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

#### FLORIDA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2023 FBC 8th EDITION AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS
- TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2023 FMC 8<sup>th</sup> EDITION:
- A. VENTILATION SYSTEM BALANCING 2023 FMC 8<sup>th</sup> EDITION(2021 IMC) 403.3
- THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH
- THE REFERENCED CODE OR STANDARD: A. STANDARDS OF HEATING- 2023 FMC 8<sup>th</sup> EDITION - 309.1
- B. DUCT CONSTRUCTION AND INSTALLATION- 2023 FMC 8<sup>th</sup> EDITION 603
- C. AIR INTAKES. EXHAUSTS AND RELIEF 2023 FMC 8<sup>th</sup> EDITION 401.5 D. AIR FILTERS - 2023 FMC 8<sup>th</sup> EDITION - 605
- MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS 2023 FMC 8<sup>th</sup>
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 5. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2023 FMC 8th EDITION 401.
- 6. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2023 FMC 8<sup>th</sup> EDITION 403.3
- REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 9. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- 10. SMOKE DETECTOR SHALL MEET UL268A.
- 11. VENTILATION SYSTEMS SHALL BE BALANCED TO MAINTAIN THE MINIMUM VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THIS SYSTEM SHALL BE BALANCED BY APPROVED METHOD. CONTRACTOR TO SUBMIT THE AIR BALANCE REPORT TO INSPECTOR OF RESPECTIVE BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION.

RC	OF TOP UNIT SO	CHEDULE	
UNIT TAG	RTU-1(E)	RTU-2(E)	RTU-3(E)
UNIT TYPE	ELECTRIC HEAT	ELECTRIC HEAT	ELECTRIC HEAT
MANUFACTURER	CARRIER	CARRIER	CARRIER
MODEL	50TC-A06A2M5A0 (V.I.F)	50TC-A06A2M5A0 (V.I.F)	50TC-A06A2M5A0 (V.I.F)
STATUS	EXISTING	EXISTING	EXISTING
MOUNTING	ROOF	ROOF	ROOF
TOTAL CAPACITY	5.0 TONS	5.0 TONS	5.0 TONS
TOTAL COOLING MBH	S.A.E	S.A.E	S.A.E
SENSIBLE COOLING MBH	S.A.E	S.A.E	S.A.E
ELECTRIC HEATING kW	7.9 (V.I.F)	7.9 (V.I.F)	7.9 (V.I.F)
SEER2 / EER2	S.A.E	S.A.E	S.A.E
COP	S.A.E	S.A.E	S.A.E
SUPPLY AIR (CFM)	2000	2000	2000
OUTDOOR AIR (CFM)	345	340	220
ESP (IN. OF H2O)	S.A.E	S.A.E	S.A.E
VOLTAGE (V/P/Hz)	208-230/3/60	208-230/3/60	208-230/3/60
MCA (A)	37.0 (V.I.F)	37.0 (V.I.F)	37.0 (V.I.F)
MOCP (A)	40.0 (V.I.F)	40.0 (V.I.F)	40.0 (V.I.F)
WEIGHT (lbs)	S.A.E	S.A.E	S.A.E

- CONTRACTOR TO ADJUST FRESH AIR DAMPER TO PROVIDE OUTSIDE AIR AS
- MENTIONED IN VENTILATION REQUIREMENT TABLE.

- IF REQUIRED, PROVIDE NEW THERMOSTAT AND TEMPERATURE SENSORS
- COMPATIBLE WITH EXISTING RTUS. COORDINATE FINAL LOCATIONS OF T-STAT AND T-SENSORS WITH ARCHITECT / OWNER.
- 9. CONTRACTOR SHALL VERIFY SPECIFICATIONS OF THE EXISTING MECHANICA
- DISCREPANCY IS FOUND PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS,

#### NOTES FOR EXISTING RTUS:

- EXISTING RTUS WITH ITS ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED.
- S.A.E.: SAME AS EXISTING.
- 4. V.I.F.: VERIFY IN FIELD.
- 5. CONTRACTOR TO FIELD VERIFY IF RTUS IS WORKING AT 100% RATED CAPACITIES LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF UNIT ON
- CLEAN / REPLACE RETURN AIR FILTERS IF REQUIRE.
- EQUIPMENT TO BE REUSED AND NOTIFY THE ENGINEER IF ANY CONFLICT OR

DISCONNECT ETC. PRIOR TO ORDERING AND BID.

		4				
		FAN	SCHEDULE			
AG	BEF-1(N)	BEF-2(N)	KEF-1(N)	KEF-2(N)	DI-1(N)	DI-2(N)
TATUS	NEW	NEW	NEW	NEW	NEW	NEW
UANTITY	1 .	1	1	1	1	1
ANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	TJERNLUND	TJERNLUND
ODEL	SP-A90	SP-A90	SP-A200	SP-A390	D3	D3
FM	70 @ 0.3 (ESP IN W.C.)	70 @ 0.3 (ESP IN W.C.)	200 @ 0.5 (ESP IN W.C.)	340 @ 0.5 (ESP IN W.C.)	-	-
MPS	0.17	0.17	0.46 (FLA)	1.42 (FLA)	74 WATTS	74 WATTS
CCESSORIES	BDD,LITE KIT	BDD,LITE KIT	BDD,LITE KIT	BDD,LITE KIT	-	-
'EIGHT (LBS)	12	12	25	25	-	-
OLT / PH / HZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
OTEO						

- PROVIDE DISCONNECT SWITCH.
- PROVIDE BACK DRAFT DAMPER. INTERLOCK KEF-1(N) & KEF-2(N) WITH RTU-3(E).
- INTERLOCK BEF-1(N),BEF-2(N) WITH RTU-2(E).
- 5. INTERLOCK DI-1(N) & DI-2(N) WITH BAGEL OVEN.

OCCUPANCY CALCULATION PER 2023 FLORIDA
MECHANICAL CODE (2021 IMC), TABLE 403.3.1.1

DINING AREA	843 SQ. FT.	@70 PEOPLE/1000SQ.FT.	60	PEOPLE
SERVICE COUNTER	221 SQ. FT.	@15 PEOPLE/1000SQ.FT.	4	PEOPLE
COOK LINE	285 SQ. FT.	@20 PEOPLE/1000SQ.FT.	6	PEOPLE
PREP AREA / OVEN / WASHING AREA	471 SQ. FT.	@20 PEOPLE/1000SQ.FT.	10	PEOPLE
ANLA		TOTAL	80	PEOPLE

#### VENTILATION REQUIREMENTS PER 2023 FLORIDA MECHANICAL CODE (2021 IMC), TABLE 403.3.1.1

	`	· · · /		
DINING AREA	843 SQ. FT. X 0.1	18 CFM/SQ. FT. =	152	CFM
	60 PEOPLE. X 7.5	CFM/PEOPLE. =	450	CFM
SERVICE COUNTER	221 SQ. FT. X 0.1	12 CFM/SQ. FT. =	27	CFM
	4 PEOPLE. X 7.5	CFM/PEOPLE. =	30	CFM
COOK LINE	285 SQ. FT. X 0.1	12 CFM/SQ. FT. =	34	CFM
	6 PEOPLE. X 7.5	CFM/PEOPLE. =	45	CFM
PREP AREA / OVEN /	471 SQ. FT. X 0.1	12 CFM/SQ. FT. =	57	CFM
WASHING AREA	10 PEOPLE. X 7.5	CFM/PEOPLE. =	75	CFM
HALLWAY	255 SQ. FT. X 0.0	06 CFM/SQ. FT. =	15	CFM
OUTSIDE AIR REQUIRE	D		885	CFM
PREP AREA / OVEN / WASHING AREA	471 SQ. FT. X 0.7	7 CFM/SQ. FT. =	330	CFM
COOK LINE	285 SQ. FT. X 0.7	7 CFM/SQ. FT. =	200	CFM
MEN'S RESTROOM	70 CFM	PER FIXTURE	70	CFM
WOMEN'S RESTROOM	70 CFM	PER FIXTURE	70	CFM
AIR BALANCE	•			
O/A PROVIDED THROU	IGH RTU-1(E)		+345	CFM
O/A PROVIDED THROU	+340	CFM		

O/A PROVIDED THROUGH RTU-3(E)

KEF-2(N)

**BUILDING PRESSURE** 

BEF-1(N) & BEF-2(N) (@70 CFM EACH)

	DIFFUSER SCHEDULE							
MA	ANUFACTURER	TITUS	TITUS	TITUS	TITUS			
DE	ESIGNATION	Α	В	R	R1			
US	SE	SUPPLY	SUPPLY	RETURN	RETURN			
МС	ODEL	TDC-AA TDC-AA TDC-AA		TDC-AA	56FL			
МС	OUNTING	CEILING	LING CEILING CEILING		WALL			
LO	OCATION	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN			
FA	ACE SIZE	24" X 24"	12"X12"	24" X 24"	AS SHOWN			
NE	ECK SIZE	REFER TABLE - A	REFER TABLE - A	- (	-			
			LAY IN /		FLANIGES			

FLANGED

DAMPER

VOLUME VOLUME

DAMPER

LAY IN 🔰 FLANGED

VOLUME

DAMPER

1. MAX. NC LEVEL 30 OR LESS. 2. PROVIDE SQUARE TO ROUND NECK ADAPTOR.

VOLUME

DAMPER

FRAME TYPE

+220 CFM

-140 CFM

-200 CFM

-340 CFM

+225 CFM

ACCESSORIES

3. COORDINATE WITH ARCHITECT FOR PAINT AND FINISH. 4. PROVIDE 4-WAY AIR THROW PATTERN UNLESS NOTED OR INDICATED. 5. PROVIDE INSULATED BACKS ON ALL DIFFUSERS.

NECK SIZE	TABLE - A
NECK SIZE DIA	CFM RANGE
Ø6"	0-100
Ø8"	101-200
Ø10"	201-400
Ø12"	401-600

AIR CURTA	IN SCHEDULE				
TAG	ACH-1(N)				
MANUFACTURER	MARS				
MODEL	LPN236-1UA-OB				
NOZZLE WIDTH (IN.)	36"				
AIR VOLUME (CFM)	900				
MOTOR HP	1/6				
AMPS	2.4				
V/PH/HZ	115/1/60				
NOTES: 1. CO-ORDINATE V FOR FINAL MOU	WITH ARCHITECT/OWNER INTING, FRAME				

TYPE, PAINT AND FINISH. PROVIDE MANUFACTURER

RECOMMENDED ACCESSORIES.

COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.

> EVISIONS DATES: 04.01.24 BD COMMENTS

BROOKI

PROFESSIONAL SEAL

♦ 06.21.24 PROJECT COORD

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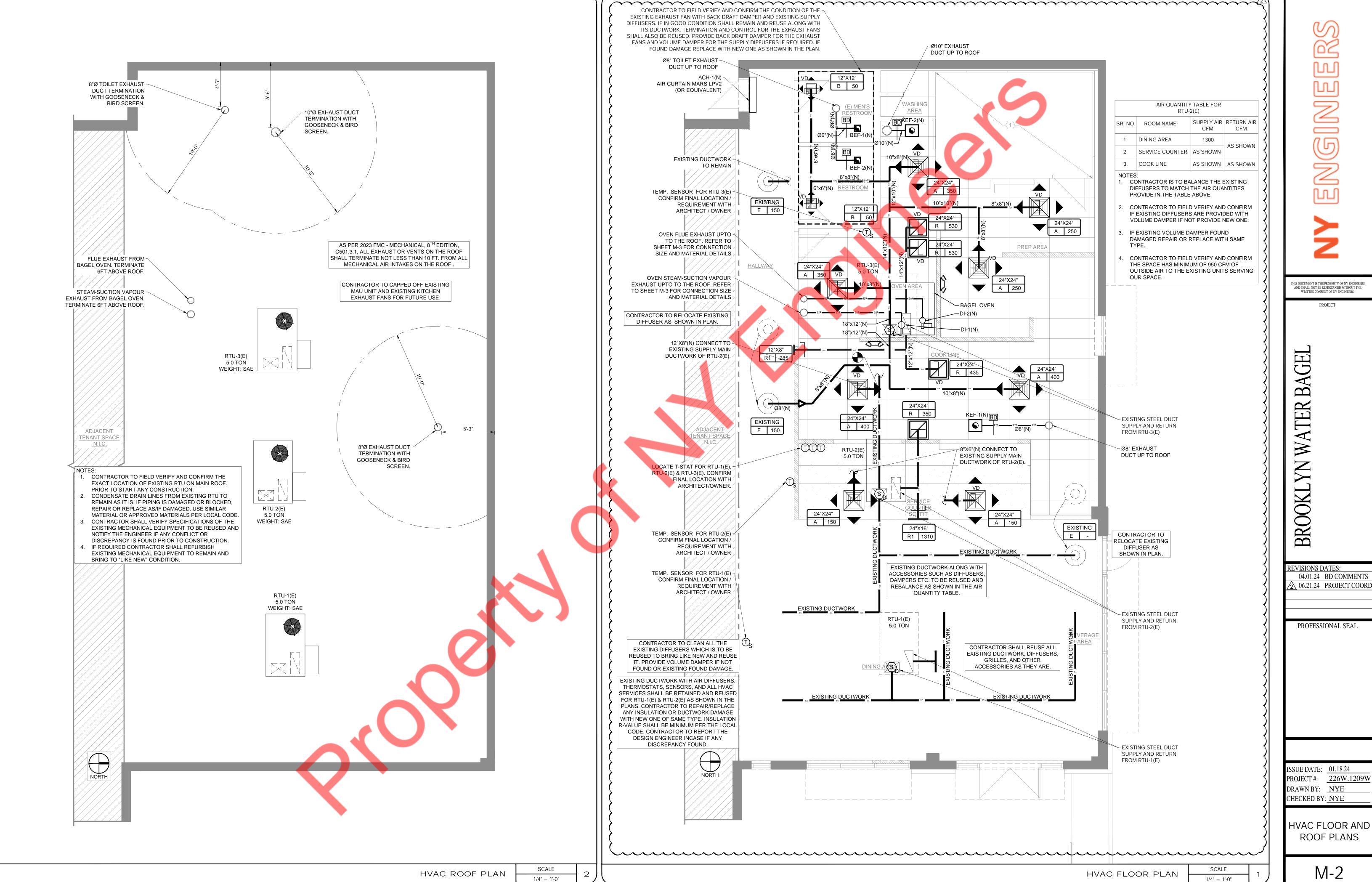
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PROJECT

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W DRAWN BY: NYE

CHECKED BY: NYE

**HVAC NOTES &** SCHEDULES



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EVISIONS DATES: 04.01.24 BD COMMENTS

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W

HVAC FLOOR AND

**ROOF PLANS** 

DUCT SMOKE DETECTORS REMOTE TEST SWITCH WILL BE PROVIDED WITH AN AUDIO/VISUAL LED INDICATOR, LOCATED IN A NORMALLY OCCUPIED AREA 48" AFF. NFPA 90A 6-4.4.3(1), & (2) 2015 EDITION.

THE ACTIVATION OF THE DUCT DETECTOR, SHALL SHUT A/C UNITS DOWN IMMEDIATELY, WITHOUT DELAY.

ALARM O POWER

 $\bigcirc$ 

KEYED REMOTE TEST STATION

SIGNALS. NEXT TO T-STAT

ELECTRICAL CONTRACT. SHALL COORDINATE

COORDINATE EXACT LOCATION OF TEST AND

RETEST SWITCHES, AND HORN WITH OWNER.

DUCT DETECTOR DETAIL

-WEATHERCAP

-FLASHING

TJERNLUND D-3

INDUCER BLOWER

7"Ø EXHAUST DUCT

RECOMMENDATION.

- STEAM SUCTION

VAPOUR EXHAUST

- MATERIAL SHOULD BE AS PER MANUFACTURERS

INLINE DRAFT

\_3/16" GUY CABLE

TYPICAL 4

TO ROOF STRUCTURE

A/C SHUT DOWN WITH MECH. CONTRACT.

LOCATED W/AUDIBLE & VISUAL

NORMAL

1/2" CONDUIT

HOUSING.

COLLAR

REFER TO OVEN INSTALLATION

PROVING~ SWITCH

FRONT

MANUAL FOR MORE DETAIL

BAGEL

OVEN

1. DRAFT DIVERTER MUST BE INSTALLED AS STRAIGHT AS

2. WEATHER CAP/ WIND CAP MUST BE INSTALLED AT MINIMUM 4

**BAGEL OVEN DETAIL** 

POSSIBLE 18" TO 24" ABOVE CONNECTION.

FEET ABOVE ANY OBSTRUCTION.

A/C UNIT

WEATHERCAP

3/16" GUY CABLE—

TYPICAL 4

8"Ø TYPE B GAS FLUE-

DRAFT-

DIVERTER

COMBUSTION -

FUMES EXHAUST

METAL BESTOS OR EQUAL

TO ROOF STRUCTURE

INSULATED —

THIMBLE

120/24 V. TRANSF.

LOCATED IN DETECT.

DUCT SMOKE DETECTOR SHALL BE CONNECTED

TO BUILDING FIRE ALARM SYSTEM TO ACTIVATE BUILDING FIRE ALARM IF ONE IS PRESENT.

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W DRAWN BY: NYE

> **MECHANICAL** DETAILS

CHECKED BY: NYE

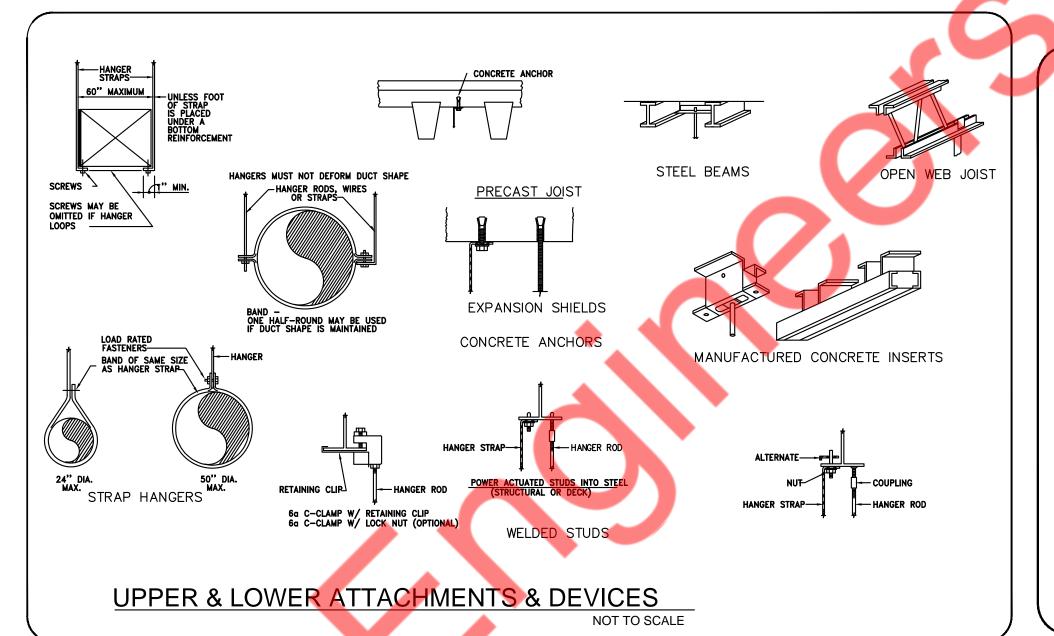
M-3

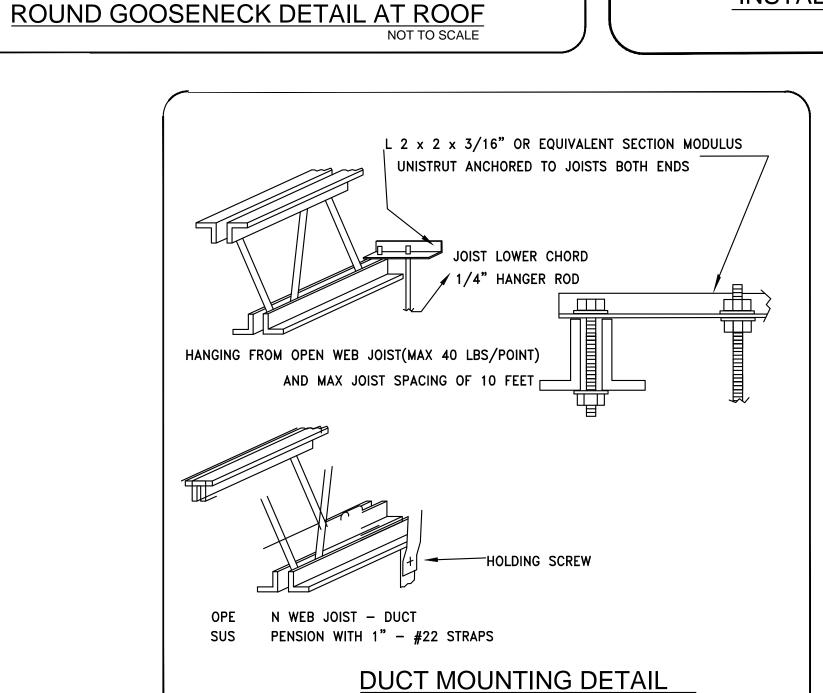
Dimensions (In.) "H" — Overall Height "D" — Overall Depth 7 1/2 8 1/2 5 7/8 2 5/8 7 5/8 8 Lbs "W" — Overall Width 7 3 1/8 8 5/8 "X" — Pipe Slot Width 
 I
 14 1/2
 13 1/2
 8 3/4
 4
 12 3/4
 31 Lbs

 IL
 17
 14 3/4
 10
 4 1/8
 15
 34 Lbs

 XL
 18 7/8
 18 1/2
 10 1/2
 5 1/8
 16 3/4
 53 Lbs

 HD
 27 1/2
 16 3/4
 25
 6
 24 1/2
 176 Lbs
 "Y" — Pipe Slot Height 3. Install Bands\* 1. Cut Slot in Pipe 2. Insert Inducer \* Models DJ-3 & D-3 fasten with screws. INLINE DRAFT INDUCER DIMENSION AND **INSTALLATION DETAIL** NOT TO SCALE





SHEETMETAL GOOSENECK

INSTALLED PER SMACNA

DRESS OPEN END

OF DUCT WITH 1/2"

AND LOCAL CODES.

BIRDSCREEN

18" MINIMUM

WATERPROOF

SILICONE

CAULK BEAD

DECKING

FRAMING MEMBER

ROUND RAIN SHIELD

INTERNALLY INSULATED CONE \_

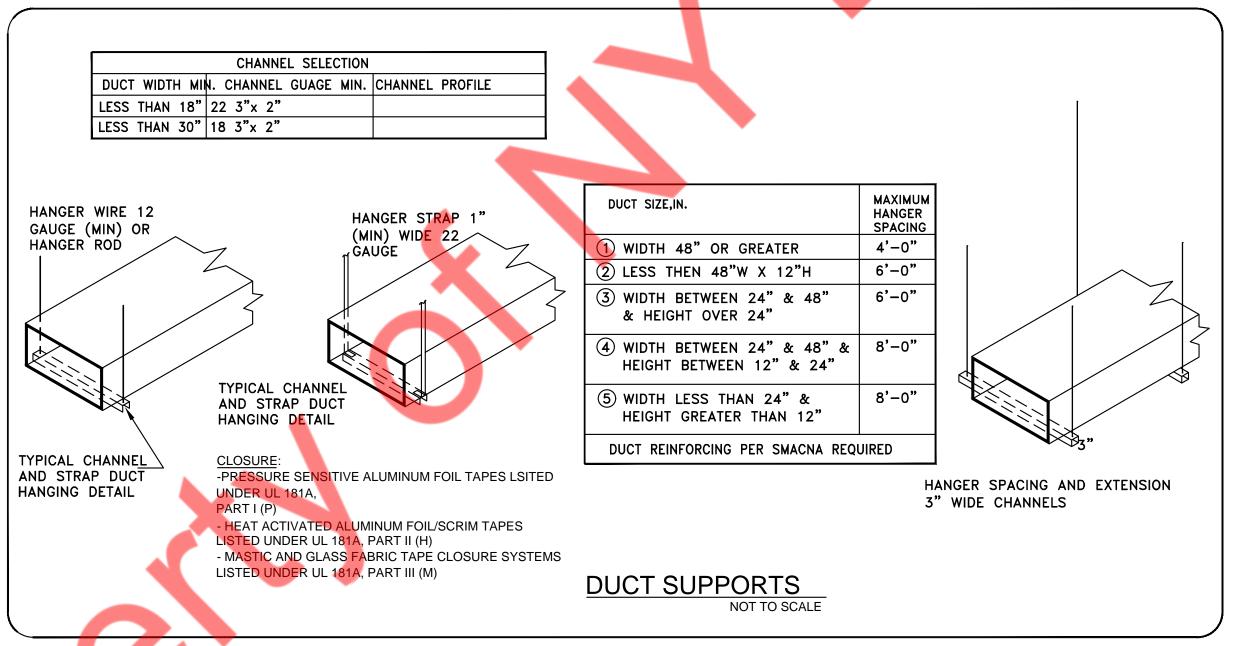
PROVIDED BY HVAC INSTALLER

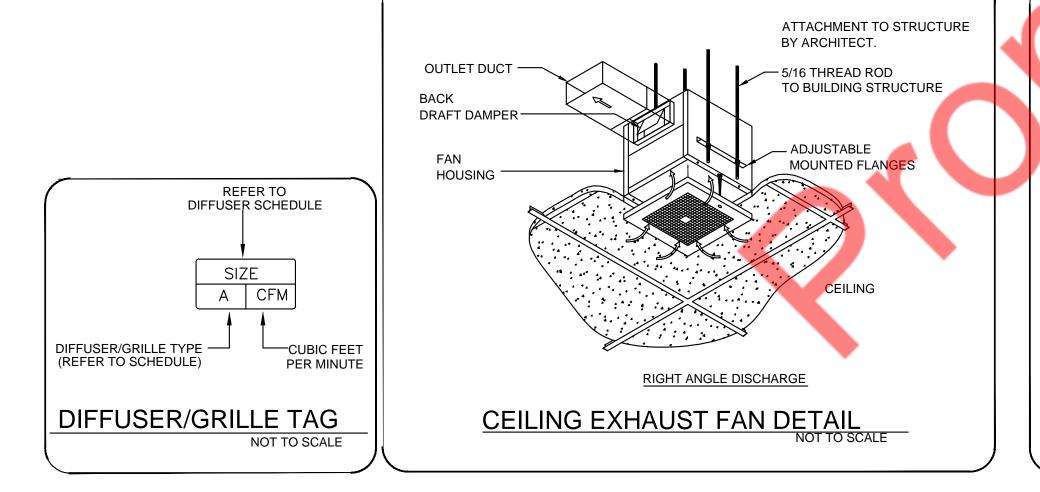
PENETRATION AND FRAMING— BY GENERAL CONTRACTOR.

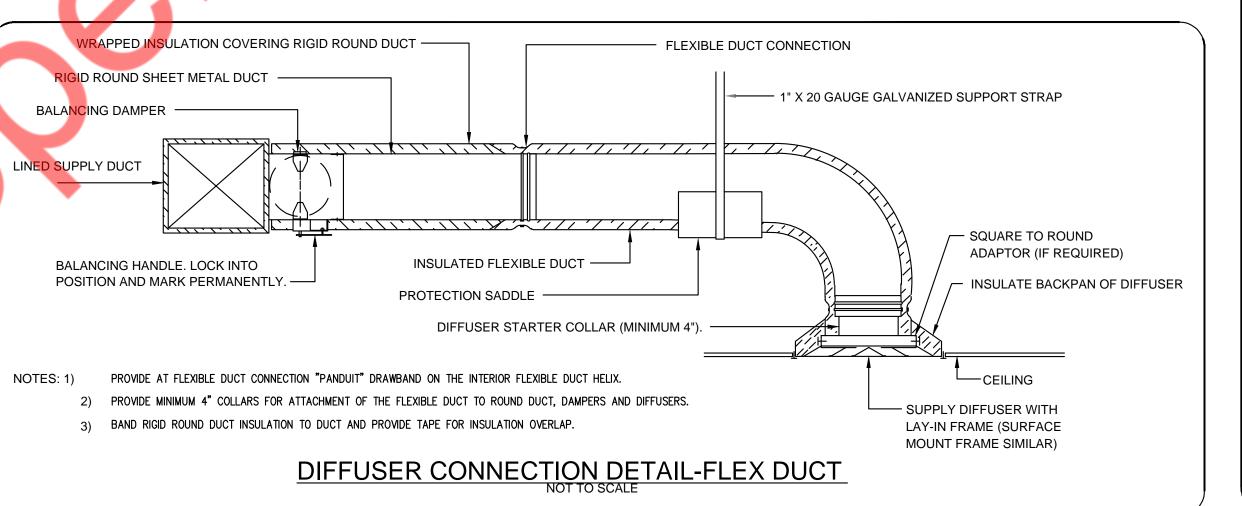
COORDINATE ON SITE.

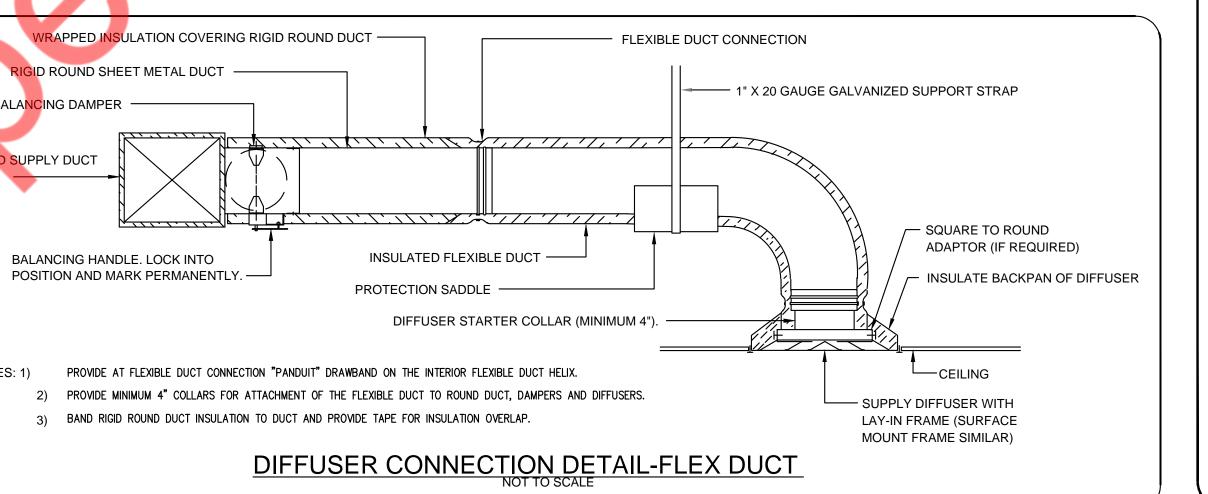
FLASHING TO MATCH GOOSENECK

FABRICATED, SEALED, AND









# System Checksums By Trial

# RTU-1(E) & RTU-2(E) DINING AREA

Sing	le	Zone	
------	----	------	--

(	COOLING C	OIL PEAK			CLG SPACE	PEAK		<b>HEATING CO</b>	IL PEAK		ТЕМР	ERATURES	8
	d at Time: utside Air:	Mo/H OADB/WB/HF	lr: 8 / 14 R: 91 / 77 / 1	19	Mo/Hr: OADB:	Sum of Peaks		Mo/Hr: Hea OADB: 38	ating Design		SADB Ra Plenum	<b>Cooling</b> 50.6 78.5	<b>Heating</b> 81.0 69.6
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent	Return	78.6	69.6
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total	Ret/OA	83.8	56.9
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	<b>(%</b> )	Fn MtrTD	0.0	0.0
Envelope Loads				1		1	Envelope Loads				Fn BldTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Fn Frict	0.0	0.0
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00			
Roof Cond	0	3,274	3,274	3	0	0	Roof Cond	0	-1,740	3.87			
Glass Solar	7,127	0	7,127	7 ;	8,001	20	Glass Solar	0	0	0.00	AIF	RFLOWS	
Glass/Door Cond	2,807	0	2,807	3	2,968	8	Glass/Door Cond	-7,312	-7,312	16.26		Cooling	Heating
Wall Cond	4,509	5,549	10,059	10 ¦	4,616	12	Wall Cond	-3,149	-7,117	15.83		1,674	1,674
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00		·	·
Floor	0		0	0	0	0	Floor	-2,064	-2,064	4.59	Terminal	1,674	1,674
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0	Main Fan	1,674	1,674
Infiltration	3,889		3,889	4	981	2	Infiltration	-3,200	-3,200	7.12	Sec Fan	0	0
Sub Total ==>	18,331	8,823	27,154	28	16,567	42	Sub Total ==>	-15,726	-21,434	47.66	Nom Vent	685	685
Internal Loads				1 1 1		 	Internal Loads	•			AHU Vent	685 61	685 86
Lights	4,076	1,019	5,095	5	4,076	10	Lights	<b>1</b> 0	0	0.00	MinStop/Rh	0	0
People	27,014	0	27,014	28 <sup>-</sup>	12,166	31	People	0	0	0.00	Return	1,734	1,759
Misc	5,060	0	5,060	5	5,060	13	Misc	0	0	0.00	Exhaust	746	771
Sub Total ==>	36,150	1,019	37,169	38	21,302	54	Sub Total ==>	0	0	0.00	Rm Exh	0	0
											Auxiliary	0	0
Ceiling Load	1,604	-1,604	0	0 ;	1,524	4	Ceiling Load	-1,074	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	36,142	37	0	0	Ventilation Load	0	-25,570	56.86	Leakage Ups	0	0
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0			
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00			
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		2,031	-4.51	ENGIN	EERING CH	(S
Exhaust Heat		-2,903	-2,903	-3			OA Preheat Diff.		0	0.00			
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00		Cooling	Heating
Ret. Fan Heat		0	0	0 ;		l i	Additional Reheat		0	0.00		40.9	40.9
<b>Duct Heat Pkup</b>		0	0	0							cfm/ft²	1.17	1.17
Underfir Sup Ht Pku	p		0	0	<b>(</b>		Underfir Sup Ht Pkup		0	0.00	cfm/ton	178.99	
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00	ft²/ton	152.84	
Grand Total ==>	56,085	5,335	97,562	100.00	39,393	100.00	Grand Total ==>	-16,799	-44,973	100.00	Btu/hr·ft²	78.51 64	-39.34
Granu Tolar ==>		<u> </u>	37,502	100.00	39,393	100.00	Gialiu IUlal ==>	- 10,7 99	<del>-44</del> ,913	100.00	No. People	04	

			COOLING	G COIL SEL	ECTI(	N				
	Total	Capacity	Sens Cap.	<b>Coil Airflow</b>	Ent	er DB/W	B/HR	Lea	ve DB	/WB/HR
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	9.4	112.2	62.8	1,674	83.1	69.4	86.7	50.6	47.2	42.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9.4	112.2								

	AREA	S		HEATING COIL SELECTION									
Gr	oss Total	Glas ft²	ss (%)		<b>Capacity</b> MBh	Coil Airflow cfm	Ent °F	Lvg °F					
Floor Part	1,429 0			Main Htg Aux Htg	-56.2 0.0	1,674 0	56.9 0.0	81.0 0.0					
Int Door ExFlr	0 84			Preheat	0.0	0	0.0	0.0					
Roof Wall	1,429 1,788	0 326	0 18	Humidif Opt Vent	0.0 0.0	0 0	0.0 0.0	0.0 0.0					
Ext Door	63	63	100	Total	-56.2								

Project Name: BWB Orlando FL BWB ORLANDO FL.TRC Dataset Name:

TRACE® 700 v6.3.3 calculated at 09:15 PM on 01/17/2024 Alternative - 1 System Checksums Report Page 1 of 2

WATER BAGEL BROOKLYN

REVISIONS DATES:

04.01.24 BD COMMENTS

06.21.24 PROJECT COORD.

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24
PROJECT #: 226W.1209W
DRAWN BY: NYE
CHECKED BY: NYE

HVAC HEAT LOAD SUMMARY

# System Checksums By Trial

# RTU-3(E) KITCHEN AREA

COOLING C	OIL PEAK			CLG SPACE	PEAK		<b>HEATING CO</b>	IL PEAK		TEMP	ERATURE:	S
			23					•		SADB Ra Plenum	<b>Cooling</b> 56.3 77.0	<b>Heating</b> 74.9 70.8
Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent	Return	77.0	70.8
Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total	Ret/OA		66.2
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)	Fn MtrTD		0.0
			1			Envelope Loads				Fn BldTD		0.0
0	0	0	0	0	0	Skylite Solar	0	0	0.00	Fn Frict	0.0	0.0
0	0	0	0	0	0	Skylite Cond	0	O	0.00			
0	2,096	•	4	0	0	Roof Cond	0	-955	6.36			
167	0	167	0 ;	317	1	Glass Solar	0	0	0.00	Alf	RFLOWS	
188	0	188	0 ;	188	1	Glass/Door Cond		-518			Cooling	Heating
1,741	1,450	3,192	7 :	1,995	7	Wall Cond	-1,727	-3,238		Difference	_	_
0		0	0	0	0	Partition/Door	0	0	0.00			1,557
0		0	0	0	0	Floor	-758	-758	5.05	<b>I</b>	•	1,557
0	0	0	0	0	0	Adjacent Floor	0	0	0	Main Fan	1,557	1,557
2,164		2,164	5	459	2	Infiltration	-1,693	-1,693	11.28	Sec Fan	0	0
4,260	3,546	7,806	16	2,958	11	Sub Total ==>	-4,696	-7,162	47.70	Nom Vent	220	220
			1			1				AHU Vent	220	220
			1			Internal Loads				Infil	41	45
2.229	557	2.787	6	2.229	8	Lights	0	0	0.00	MinStop/Rh	0	0
•	0		1	•				_	ı	<u> </u>	1.598	1,603
· ·	0	•	1	·		•	0	0	ı			265
	557	·					0	0			0	0
20,123	557	20,002	00	24,023	00	Sub Total>	U	U	0.00		0	0
188	_/188	0	0	506	2	Ceiling Load	-292	0	0.00	_	0	0
400					0	_		_	I		0	0
0	O	11,000 n			0		n	0,212	0 0	Leakaye Ups	U	U
		0	1	U	U		0	0	0 00			
		0	I I	0			O	360	ı	CNOING		<b>/</b> C
U	_590	-590	_1 ·	U	U			000	I	ENGINE	EKING C	19
	-030	-090	<b>0</b> '					0	I		Coolina	Heating
	Λ	0	_					0	ı	% OA	_	14.1
	0	0				Auditional Neileat		J	0.00			2.06
n	J	0		_		Underfir Sun Ht Dkun		Λ	0 00			
Υ	Λ	0	I I			I The state of the		_	ı			
	U	0	U T			Supply All Leakage		J	0.00			-24.82
32,872	3,026	47,558	100.00	28,087	100.00	Grand Total ==>	-4,988	-15,014	100.00	No. People	72.34 16	-24.02
.37.077	J.UZD	47.000	TUU.UU	20.00/	100.00	Glaliu iVlai ==>	<del>-4</del> .500	-13.014	100.00 1	i No. Peoble	מו	
	d at Time: utside Air:  Space Sens. + Lat.  Btu/h  0 0 167 188 1,741 0 0 2,164 4,260  2,229 6,581 19,315 28,125  488 0 0 0	Space Sens. + Lat. Btu/h  Space Sens. + Lat. Btu/h  O	Space   Plenum   Net   Total	Space   Sens. + Lat.   Btu/h   Btu/h   Btu/h   Btu/h   Btu/h   Consider   C	Space   Plenum   Sens. + Lat   Total   Of Total   Sensible	Space   Plenum   Net   Percent   Space   Percent   Sens. + Lat.   Sens. + Lat   Total   Of Total   Sensible	Space   Plenum   Sens. + Lat   Total   OT Total   Btu/h   Btu/h   Btu/h   Btu/h   Cys   Skylite Solar   Skyl	Same   Mo/Hr: 8 / 19	Sact   Sact	Sance   Sens. + Lat.   Sens. + Sen	Saper   Sens. + Lat   No/Hr: 8 / 19	A a Time:   Mo/Hr: 8/19

			COOLING	G COIL SEL	<b>ECTIO</b>	N						AREA
	Total (	Capacity	Sens Cap.	<b>Coil Airflow</b>	Ent	er DB/W	B/HR	Lea	ve DB/	WB/HR	G	ross Total
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		
Main Clg	4.6	54.7	38.0	1,557	78.3	65.3	73.2	56.3	53.8	58.1	Floor	756
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0
											ExFlr	31
Total	4.6	54.7									Roof	756
											Wall	680
											Ext Door	0

	AREAS	5		HEATING COIL SELECTION									
Gro	ss Total	Glas ft²	s (%)		<b>Capacity</b> MBh	Coil Airflow cfm	Ent °F	Lvg °F					
Floor	756			Main Htg	-18.8	1,557	66.2	74.9					
Part	0			Aux Htg	0.0	0	0.0	0.0					
Int Door	0			Preheat	0.0	0	0.0	0.0					
ExFlr	31												
Roof	756	0	0	Humidif	0.0	0	0.0	0.0					
Wall	680	31	4	Opt Vent	0.0	0	0.0	0.0					
<b>Ext Door</b>	0	0	0	Total	-18.8								

Project Name: BWB Orlando FL BWB ORLANDO FL.TRC Dataset Name:

TRACE® 700 v6.3.3 calculated at 09:15 PM on 01/17/2024 Alternative - 1 System Checksums Report Page 2 of 2 REVISIONS DATES:

04.01.24 BD COMMENTS

06.21.24 PROJECT COORD.

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24
PROJECT #: 226W.1209W
DRAWN BY: NYE
CHECKED BY: NYE

HVAC HEAT LOAD SUMMARY

#### **SCOPE OF WORK**

- REUSE EXISTING (1) 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FOR THE TENANT SPACE.
- REUSE EXISTING 400A, 120/208V, 3-PHASE ELECTRICAL CT METER CABINET AND DISCONNECT SWITCH FOR OUR TENANT SPACE IN THE BASE BUILDING ELECTRICAL POWER DISTRIBUTION SYSTEM.
- REUSE EXISTING (1) 400A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" (101A).
- REUSE EXISTING (1) 225A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B" (101B).
- PROVIDE NEW (1) 125A(M.L.O), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "C".
- ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROJECT SPACE INCLUDING WIRING FOR VENTILATION EQUIPMENT.

AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT 35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING,

PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.

PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.

UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.

38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.

THE ELECTRICAL CONTRACTOR.

RELAYS IN EACH HOT LEG.

47. GAS PIPING SHALL BE BONDED.

THE BUILDING OWNER.

ACCEPTANCE. PROVIDE A COPY TO LL

SUPPORTED FROM THE ROOF DECK.

N.E.C. NEMA, AND IECE.

ENGINEER/ARCHITECT

THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF

APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF

34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING

FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY

CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING

40. BREAKER AND PANELS -- ALL CURRENT CARRYING BUSSES SHALL BE

QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.

COPPER, ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD

ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD

41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE

SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.

. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS:

DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE

BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH

WHERE VOLTAGE DROP EXCEEDS 3%. CONTRACTOR SHALL INCREASE SIZE

45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%.

CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.

49. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE

PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF

50. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO

FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY

52. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR

53. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE,

ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE

55. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.

56. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY

STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN

ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR

UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND

WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.

58. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.

54. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN

COMPLIANCE WITH NEC AND UL REQUIREMENTS.

LIT DURING ALL MALL BUSINESS HOURS.

59. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%

FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE

LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED

42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD

43 THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND

CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF

#### COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

#### **ELECTRICAL PLAN NOTES**

- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. 32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS 33. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE
- BIDDING, ORDERING, OR PROCEEDING WITH WORK. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT. CONTRACTOR
- PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION 36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING FLECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING 37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F.

SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE

- CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC.. THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2023 FBC CODE 39. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL
- JURISDICTION. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT.
- CONFIRM WITH OWNER'S REPRESENTATIVE.

AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING

- ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID
- CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE.
- 0. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- . ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146.
- 2. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
- 13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
- 4. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- 15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.

GALVANIZED STEEL

- 3. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH  $oxed{4}$ 6. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V GENERAL CONTRACTORS IS REQUIRED.
- 17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL 48. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
- 9. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND

CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN

- CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 0. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL 51. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 1. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS REQUIRED BY THE N.E.C. OR LOCAL CODES.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE. 3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR
- IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- 4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 5. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND
- WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LI 6. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL  $\mid$  57. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING

CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER

- PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY. 7. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE
- 8. CONTRACTOR SHALL PAY FOR ALL PERMITS. FEES. INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS
- PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. 29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- 0. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- . ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.

- A. UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE.
- B. ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT

#### **ELECTRICA** SYMBOL DESC EXHA COMB JUNCT BATTE BATTI WALL WALL WALL OCCU SINGL DUPLE DUPLE HALF: 230 VC QUADE **FLOOF FLOOF FLOOF** CEILING ELECT DISCO USB C **TELEVI** TELEPH **TELEP** DATA C FLOOR QUAD. NON F <u> ABBREVIATIONS:</u>

ABOVE FINISH FLOOR= A.F.F. BELOW COUNTER= BC COUNTER TOP LEVEL= C PUSH BUTTON= PB GROUND FAULT INTERRUPTER= GFCI UNDER CABINET= UC VERIFY PRIOR TO INSTALL= VH VAPOR PROOF= VP WEATHER PROOF= WP ELECTRICAL CONTRACTOR=E.C KITCHEN EXHAUST FAN = KEF BATHROOM EXHAUST FAN=BEF WATER HEATER= WH RECIRCULATION PUMP=RCP AUTHORITY HAVING JURISDICTION= A.H.J. ROOF TOP UNIT= RTU

#### **GENERAL LIGHTING NOTES**

AL LEGEND	)(   <b>**</b>	X1	WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO	TBD	TBD	120	2	LED	8 WATTS	WALL	SUBSTITUTIONS TO THE ABOVE FIXTURE
SCRIPTION	<b>-</b> >	EU	WALL MOUNTED EMERGENCY LIGHTS	TBD	TBD	120	2	LED	6 WATTS	WALL/CEILING	SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER.
HAUST FAN	\$ <sub>os</sub>	os	OCCUPANCY WALL SWITCH	INTERMATIC	100 001	120			7	WALL	SUBSTITUTIONS WILL NOT BE REVIEWED
MBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)	<b>\\</b>			INTERWATIO	IOS-DOV	120			-	VVALL	AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR, CUT SHEETS, ALL
NCTION BOX	\$ <sub>ov</sub>	OV	OVERRIDE SWITCH	COOPER LIGHTING	-	120	-	-	-	WALL	PHOTO METRICS & FIXTURE SAMPLES FOR
TTERY BACK UP EXIT LIGHT	<b>7(</b>										ALL DECORATIVE FIXTURES, LANDSCAPE FIXTURES & OUTDOOR FIXTURES.
TTERY BACK UP EMERGENCY LIGHT	LTC	LTC	LIGHTING TIMER CONTROL	COOPER LIGHTING	LITEKEEPER 8	120	<b>7</b> .	-	-	WALL	WITHOUT THIS INFORMATION NO REVIEW
.LL SWITCH (SINGLE, DOUBLE, )				INTERMATIO			7 4	*			WILL BE PROVIDED.
LL SWITCH (3 WAY, 4 WAY)		os	OCUPANCY SENSOR	INTERMATIC	IOS-CMP-DT-U	120		-	-	CEILING	
ILL SWITCH (TIMER)											
CUPANCY SENSOR WALL SWITCH	<b>                                       </b>	(E)	EXISTING LIGHT TO REMAIN	-				-	-	-	
IGLE RECEPTACLE											
PLEX RECEPTACLE	NOTE:										
PLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS	NOTE:										
LF SWITCHED DUPLEX RECEPTACLE	171		COORDINATE WITH ARCHITECT FOR FE EXACT CONTROL REQUIREMENTS								
VOLT RECEPTACLE	3. E	E.C SHALL I	PROVIDE REQUIRED POWER PACKS A		OVE LIGHT FIXTURES IN COORDINATION W	ITH THE LIGHT	ING				
ADRUPLEX RECEPTACLE	<b>□                                     </b>	VENDOR. B	ASE BID ACCORDINGLY.		<b>T. T.</b>						
OOR MOUNTED. FLUSH DUPLEX RECEPTACLE	<b>7(</b> (										
OOR MOUNTED. FLUSH QUAD. RECEPTACLE	$\exists$ ( $\subseteq$				A						
OOR MOUNTED. FLUSH 230 VOLT RECEPTACLE	$\neg$ $\sim$										
LING MOUNTED DUPLEX RECEPTACLE											
ECTRICAL PANEL											
CONNECT SWITCH	7 (										
B CHARGER RECEPTACLE				2000							
EVISION OUTLET				BUIL	DING EXTERIOR	PROJE	CT'S SPA	CE			
EPHONE OUTLET											
EPHONE/DATA OUTLET											
TA OUTLET											
OOR MTD. FLUSH TELEPHONE/DATA OUTLET											
AD. DATA OUTLET RJ45											
N FUSED DISCONNECT SWITCH	7										
						F	XISTING (	3)			

## LIGHTING FIXTURE AND CONTROL SCHEDULE

(	SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	NUMBER OF FIXTURES	LAMP TYPE	TOTAL WATTS	MOUNTING
		А	2x4 RECESSED LAY-IN LED	TBD	TBD	120	13	LED	650 WATTS	RECESSED
\	0	В	ACCENT PENDANT LIGHTS	TBD	TBD	120	8	LED	136 WATTS	PENDANT
	8 8	С	LED TRACK WITH HEADS	TBD	TBD	120	42	LED	420 WATTS	SUSPENDED
\	<b>**</b>	X1	WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO	TBD	TBD	120	2	LED	8 WATTS	WALL
	<b>◇</b> ◆	EU	WALL MOUNTED EMERGENCY LIGHTS	TBD	TBD	120	2	LED	6 WATTS	WALL/CEILING
<b>\</b>	\$ <sub>os</sub>	os	OCCUPANCY WALL SWITCH	INTERMATIC	IOS-DOV	120	4.		-	WALL
	\$ <sub>ov</sub>	OV	OVERRIDE SWITCH	COOPER LIGHTING	-	120		-	-	WALL
\	LTC	LTC	LIGHTING TIMER CONTROL	COOPER LIGHTING	LITEKEEPER 8	120		-	-	WALL
	(OS)	os	OCUPANCY SENSOR	INTERMATIC	IOS-CMP-DT-U	120		-	-	CEILING
\		(E)	EXISTING LIGHT TO REMAIN	-			-	-	-	-
ĺ		•						'		

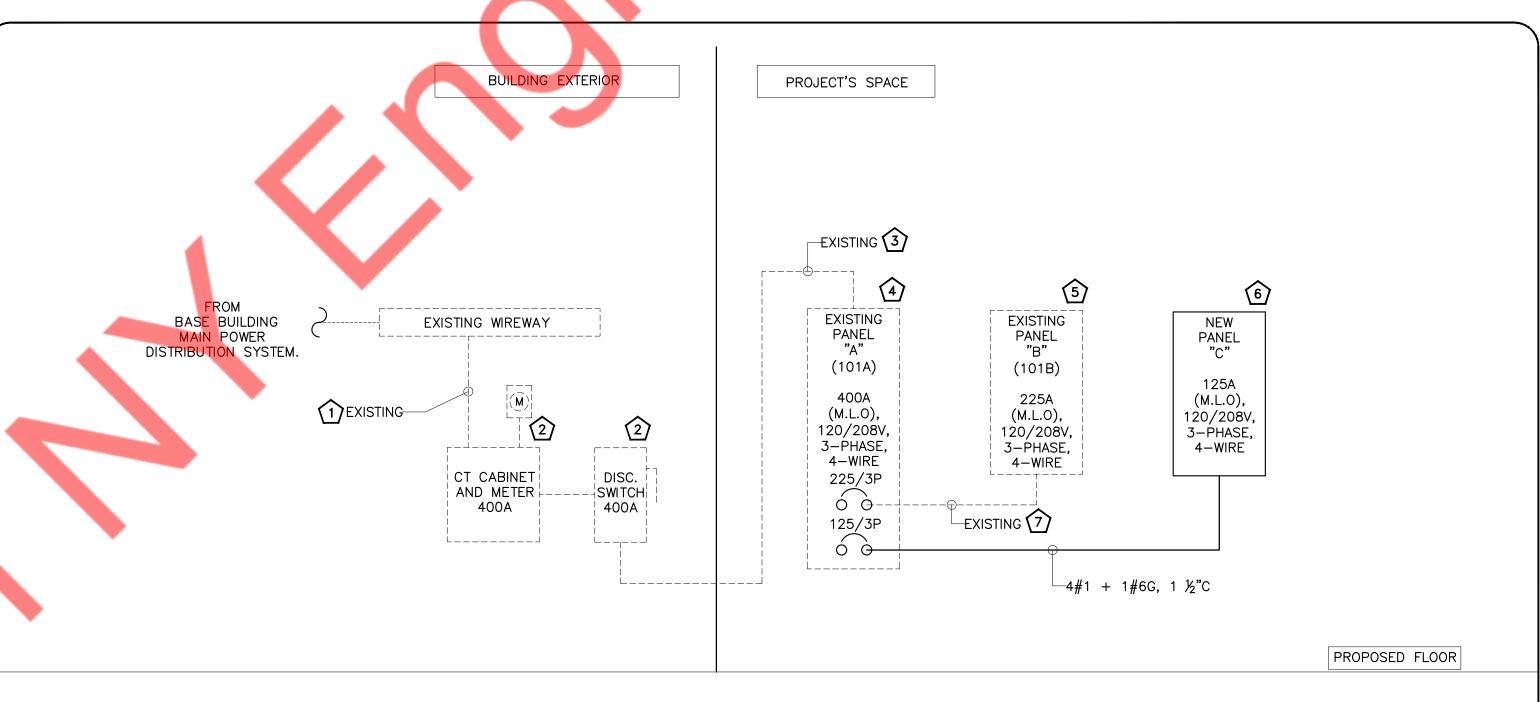
LIGHT FIXTURE SCHEDULE NOTES:

REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED

(\*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED. REPLACE W/ EXACT MATCH OR MATCH SCHEDULE

#### NOTE

- E.C. SHALL COORDINATE WITH ARCHITECT FOR FINAL FIXTURE COUNT AND TYPE.
- COORDINATE EXACT CONTROL REQUIREMENTS WITH OWNER
- E.C SHALL PROVIDE REQUIRED POWER PACKS AND RELAYS SUITABLE FOR THE ABOVE LIGHT FIXTURES IN COORDINATION WITH THE LIGHTING VENDOR. BASE BID ACCORDINGLY.



#### ELECTRICAL RISER KEYED NOTES:

- EXISTING 400A, 120/208V, 3-PHASE,4-WIRE ELECTRICAL SERVICE (PROVIDED BY THE LANDLORD) FOR THE TENANT SPACE SHALL REMAIN. E.C SHALL COORDINATE WITH BASE BUILDING FOR THE EXACT POWER DISTRIBUTION IN THE FIELD.
- EXISTING 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL CT METER CABINET AND ELECTRICAL DISCONNECT SWITCH FOR THE TENANT SPACE SHALL REMAIN. E.C SHALL FIELD VERIFY EXACT LOCATION, SIZE AND OPERABLE CONDITION OF THE EXISTING CT METER CABINET AND DISCONNECT, REPLACE IF FOUND INOPERABLE. E.C SHALL GET INFORMATION ABOUT THE EXISTING POWER DISTRIBUTION BEFORE COMMENCING ANY WORK AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.
- EXISTING 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FEEDER TO THE ELECTRICAL PANEL "A" (101A) IN THE TENANT'S SPACE SHALL REMAIN. E.C TO VERIFY OPERABLE CONDITION OF FEEDER IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID
- EXISTING 400A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" (101A) TO REMAIN. E.C. TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING 225A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B" (101B) TO REMAIN. E.C TO FIELD VERIFY THE EXACT SIZE, LOCATION & OPERABLE CONDITION OF THE PANEL, REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- (6) NEW 125A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "C". E.C TO COORDINATE THE EXACT LOCATION OF THE PANEL WITH ARCHITECT/OWNER IN FIELD.
- EXISTING FEEDER TO REMAIN. E.C. TO VERIFY OPERABLE CONDITION OF FEEDER IN FIELD AND PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

# RISER DIAGRAM GENERAL NOTES:

- ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.
- B. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO BID.
- C. E.C SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION PRIOR TO COMMENCING ANY WORK.
- D. E.C. TO VERIFY AND OPERABLE CONDITIONS OF ALL EXISTING PANELS. FEEDER DISCONNECT, SWITCH ETC. IN FIELD. REPLACE IF FOUND IN OPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL RISER SYMBOLS:
NEW
EXISTING ITEM/FEEDER TO REMAIN
EXISTING ITEM/FEEDER TO BE DISCONNECTED & REMOVED

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W DRAWN BY: NYE CHECKED BY: NYE ELECTRICAL GENERAL NOTES

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04.01.24 BD COMMENTS

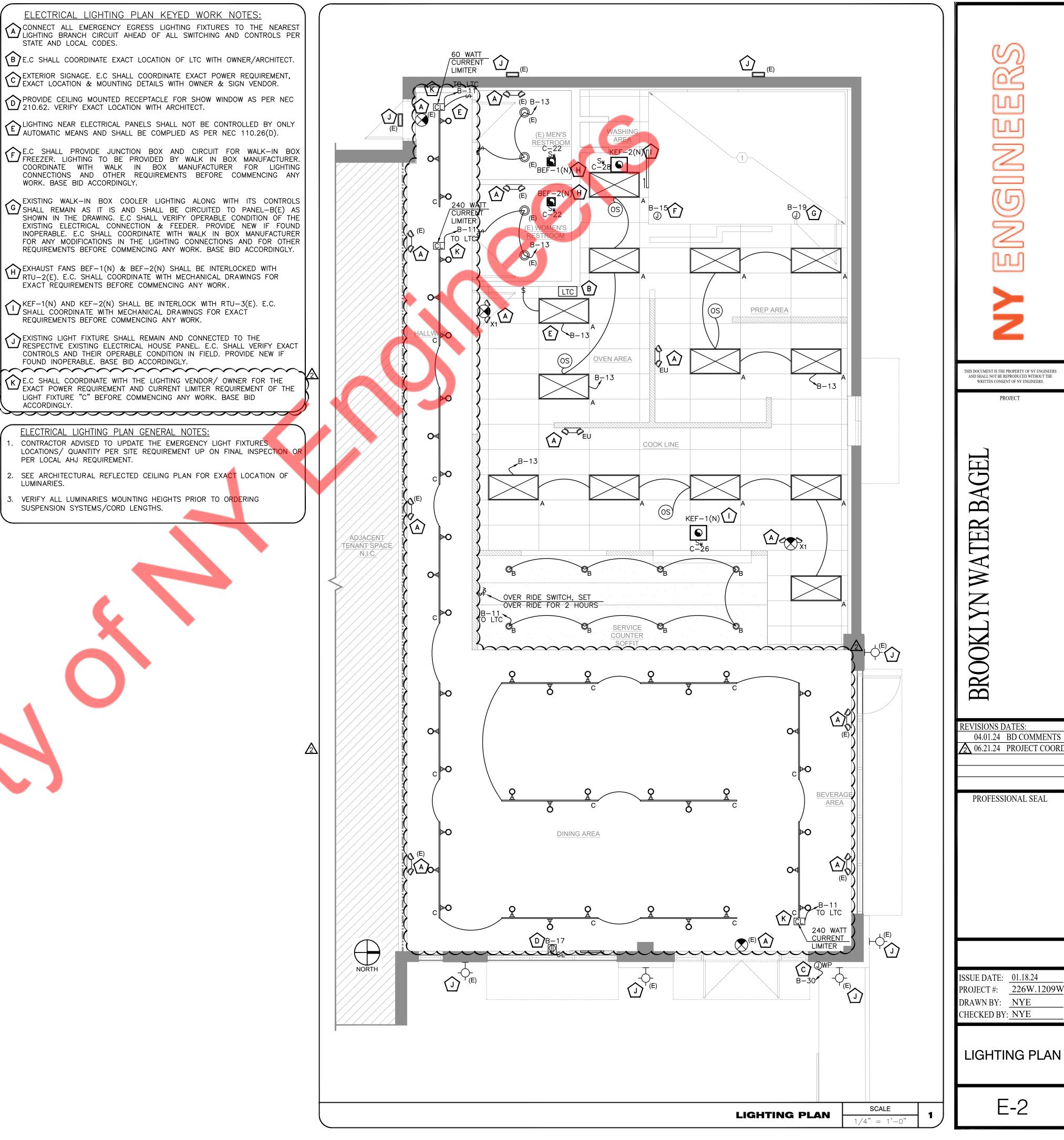
06.21.24 PROJECT COORD

PROFESSIONAL SEAL

**ELECTRICAL RISER** N.T.S. RISER

# **EXISTING CONDITIONS NOTES**

THE CONTRACTOR AND SUB-CONTRACTORS SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY **VERIFIED.** THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.



ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:

STATE AND LOCAL CODES.

WORK. BASE BID ACCORDINGLY.

EXACT REQUIREMENTS BEFORE COMMENCING ANY WORK.

EXISTING LIGHT FIXTURE SHALL REMAIN AND CONNECTED TO THE

LIGHT FIXTURE "C" BEFORE COMMENCING ANY WORK. BASE BID

VERIFY ALL LUMINARIES MOUNTING HEIGHTS PRIOR TO ORDERING

REQUIREMENTS BEFORE COMMENCING ANY WORK.

FOUND INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

ACCORDINGLY.

LUMINARIES.

PER LOCAL AHJ REQUIREMENT.

SUSPENSION SYSTEMS/CORD LENGTHS.

04.01.24 BD COMMENTS

#### ELECTRICAL POWER PLAN KEYED WORK NOTES: EXISTING 400A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" (101A). E.C SHALL FIELD VERIFY EXACT SIZE, LOCATION AND OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. E.C SHALL COORDINATE LOCATION WITH ARCHITECT/ OWNER. BASE BID ACCORDINGLY. B EXISTING 225A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "B" (101B). E.C SHALL FIELD VERIFY EXACT SIZE, LOCATION AND OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. E.C SHALL COORDINATE LOCATION WITH ARCHITECT/ OWNER. BASE BID ACCORDINGLY. C NEW 125A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "C". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. D E.C SHALL VERIFY/PERFORM THE INSTALLATION OF ELECTRICAL PANELS IN COMPLIANCE WITH 2020 NEC ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE. E DATA JACK(S), COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. (4) DOUBLE CAT-5 IN THE CEILING. E.C. TO COORDINATE EXACT LOCATION AND REQUIREMENT WITH OWNER /LV VENDOR PRIOR TO ROUGH-IN BASE BY AND REQUIREMENT WITH OWNER/LV VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY. G E.C. TO COORDINATE WITH #32 BAGEL OVEN— RACK OVEN SINGLE RACK MANUFACTURER / EQUIPMENT SUPPLIER FOR EXACT ELECTRICAL FOR EXACT POWER REQUIREMENTS BEFORE COMMENCING ANY WORK. BASE BID H DI-1(N) AND DI-2(N) SHALL BE INTERLOCK WITH BAGEL OVEN. E.C. SHALL COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT REQUIREMENTS REFOR COORDÍNATE WITH MÉCHANICAL DRAWINGS FOR EXACT REQUIREMENTS BEFORE COMMENCING ANY WORK. E.C TO COORDINATE WITH #4 COFFEE THERMAL DISPENSER, #4A SINGLE REMOTE WARMER AND #4B DOLINE REMOTE WARMER STAND FOLLEMENT REMOTE WARMER AND #4B DOUBLE REMOTE WARMER STAND EQUIPMENT VENDOR/ MANUFACTURER FOR EXACT POWER REQUIREMENTS BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY. EXISTING WATER HEATER WH-E AND RCP-E REMAIN AS IT IS. IF REQUIRED PROVIDE NEW CIRCUIT AS SHOWN IN THE DRAWING. REPORT ENGINEER FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY. E.C TO COORDINATE WITH #12 GRAB & GO EQUIPMENT VENDOR/ MANUFACTURER FOR EXACT POWER REQUIREMENTS BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY. E.C TO COORDINATE WITH #24 FAST COOKING MULTI-TECHNOLOGY OVEN EQUIPMENT VENDOR/ MANUFACTURER FOR FXACT POWER REQUIREMENT EQUIPMENT VENDOR/ MANÜFACTURER FOR EXACT POWER REQUIREMENT, LOCATIONS AND MOUNTING HEIGHTS. PRIOR ROUGH IN. BASE BID ACCORDINGLY. E.C SHALL COORDINATE WITH WALK IN FREEZER VENDOR FOR EXACT LOCATION AND POWER REQUIREMENT BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY. EXISTING WALK-IN BOX COOLER EVAPORATOR POWER CONNECTION SHALL $\stackrel{\mathsf{LL}}{\smile}$ remain as it is and shall be circuited to panel-b(e) as shown in THE DRAWING. E.C SHALL VERIFY OPERABLE CONDITION OF THE EXISTING ELECTRICAL CONNECTION & FEEDER. PROVIDE NEW IF FOUND INOPERABLE. E.C. SHALL COORDINATE WITH WALK IN BOX MANUFACTURER FOR ANY MODIFICATIONS IN THE POWER REQUIREMENTS, CONNECTION AND FOR OTHER

REQUIREMENTS BEFORE COMMENCING ANY WORK. BASE BID ACCORDINGLY.

ALL 15/20A, 125V AND 250V NON LOCKING TYPE RECEPTACLES IN LOBBY/ HALLWAY SHALL BE LISTED TAMPER RESISTANCE AS PER NEC 406.12.

ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE

BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR

LESS, AND ALL RECEPTACLES SUPPLIED BY THREE—PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) SHALL HAVE GFCI PROTECTION. ALL THE

RECEPTACLES IN KITCHEN AREA SHALL BE "GFCI" PROTECTED IN ACCORDANCE WITH NEC ART. 210.8(B). GFCI RECEPTACLES, ONCE INSTALLED, SHALL BE

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CORDS AND PLUGS ON

ALL APPLIANCE TYPE EQUIPMENT WHEN CORDS ARE NOT FURNISHED WITH EQUIPMENT. CORDS SHALL BE OF THE HEAVY DUTY TYPE AND BE WATER/OIL

5. ALL CONDUIT PENETRATIONS THRU COOLER/FREEZER WALLS AND ALL CONDUIT

REQUIRED. PENETRATIONS THRU COOLER/FREEZER FLOOR PANELS ARE NOT

ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL LOAD DATA WITH ACTUAL NAMEPLATE RATINGS OF ALL TENANT FURNISHED EQUIPMENT. WHERE CONFLICTS

MATCH RECEPTACLE TYPES AND MOUNTING HEIGHTS TO MANUFACTURER'S

RECEPTACLES, SWITCHES AND DEVICE COVER PLATES SHALL BE ORDERED AS PER

B. COORDINATE FINAL PLACEMENT OF ALL DEVICES WITH OWNER.

PENETRATIONS THRU COOLER/FREEZER WALLS AND CEILINGS SHALL BE SEALED

OFF BY ELECTRICAL CONTRACTOR. PROVIDE AND INSTALL SEAL-OFF FITTINGS AS

READILY ACCESSIBLE. IF GFCI RECEPTACLE IS NOT READILY ACCESSIBLE, PROVIDE

. ALL RECEPTACLES IN KITCHEN AREA SHA<mark>LL</mark> BE "GFCI" PROTECTED IN ALL

ELECTRICAL POWER PLAN GENERAL NOTES

GFCI RATED CIRCUIT BREAKER IN PANEL.

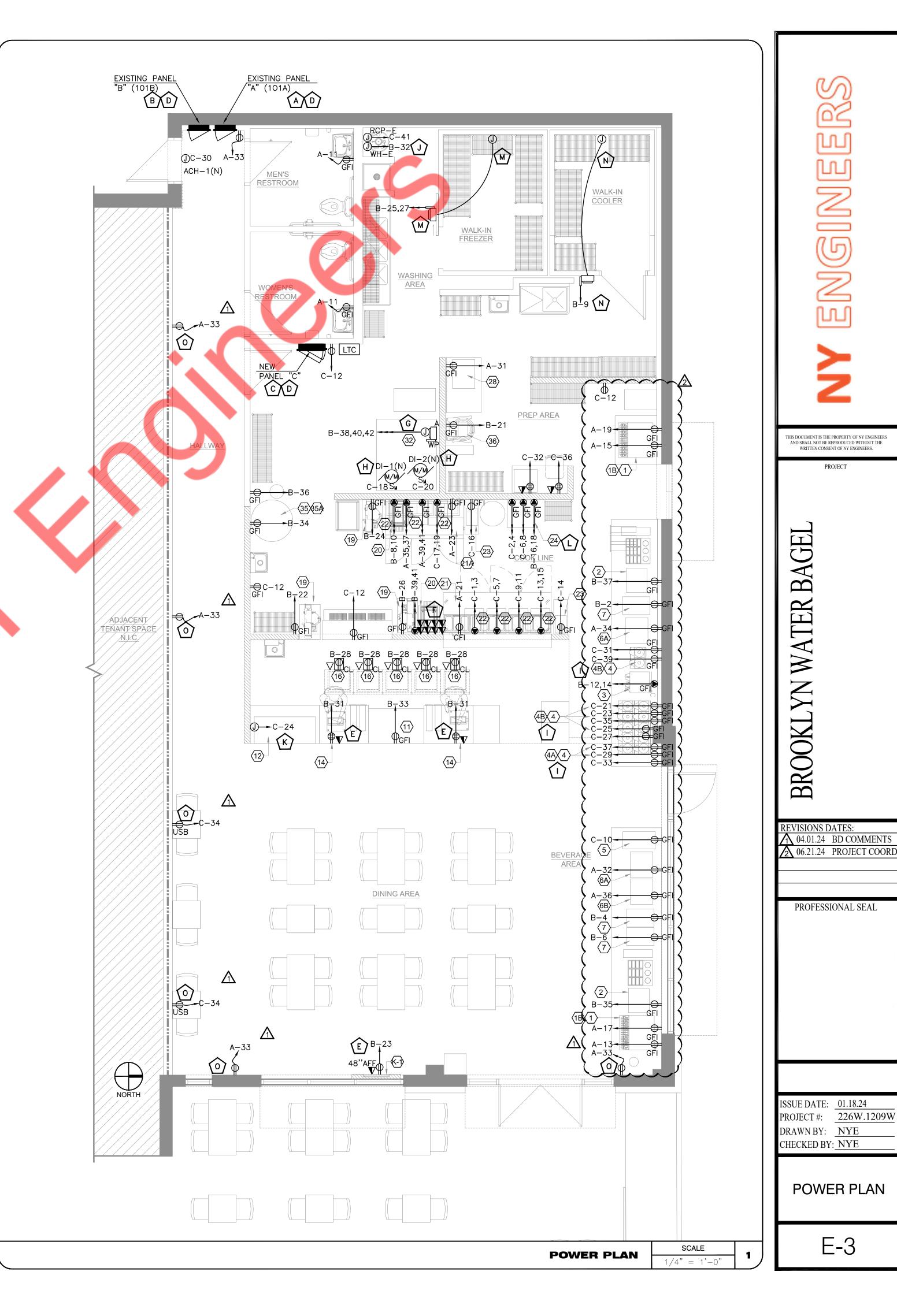
OCCUR, NOTIFY ARCHITECT.

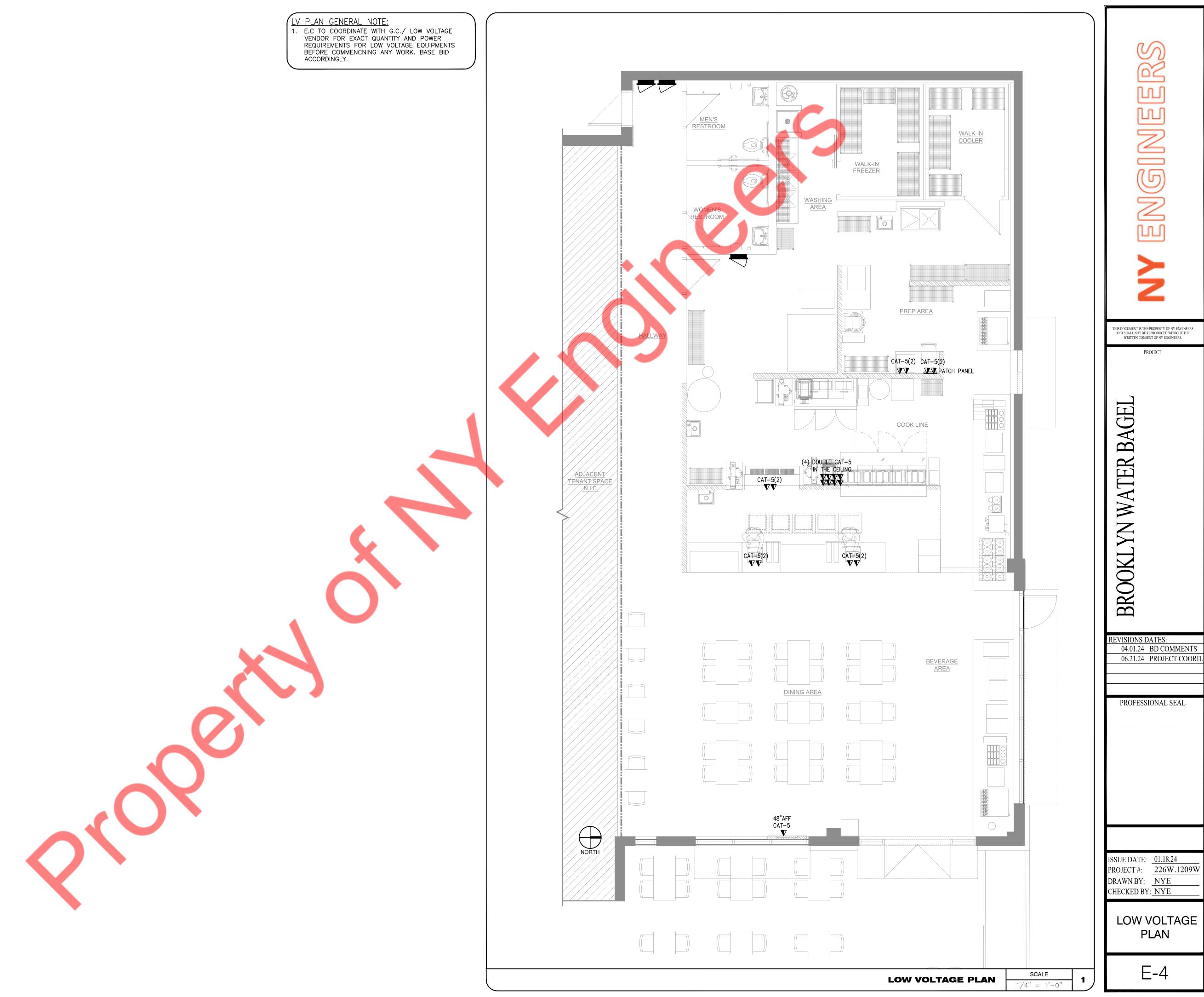
EQUIPMENT CONNECTION REQUIREMENTS.

ARCHITECT/OWNER REQUIREMENT.

KITCHEN EQUIPMENT SHALL HAVE GFI BREAKER IN PANELS.

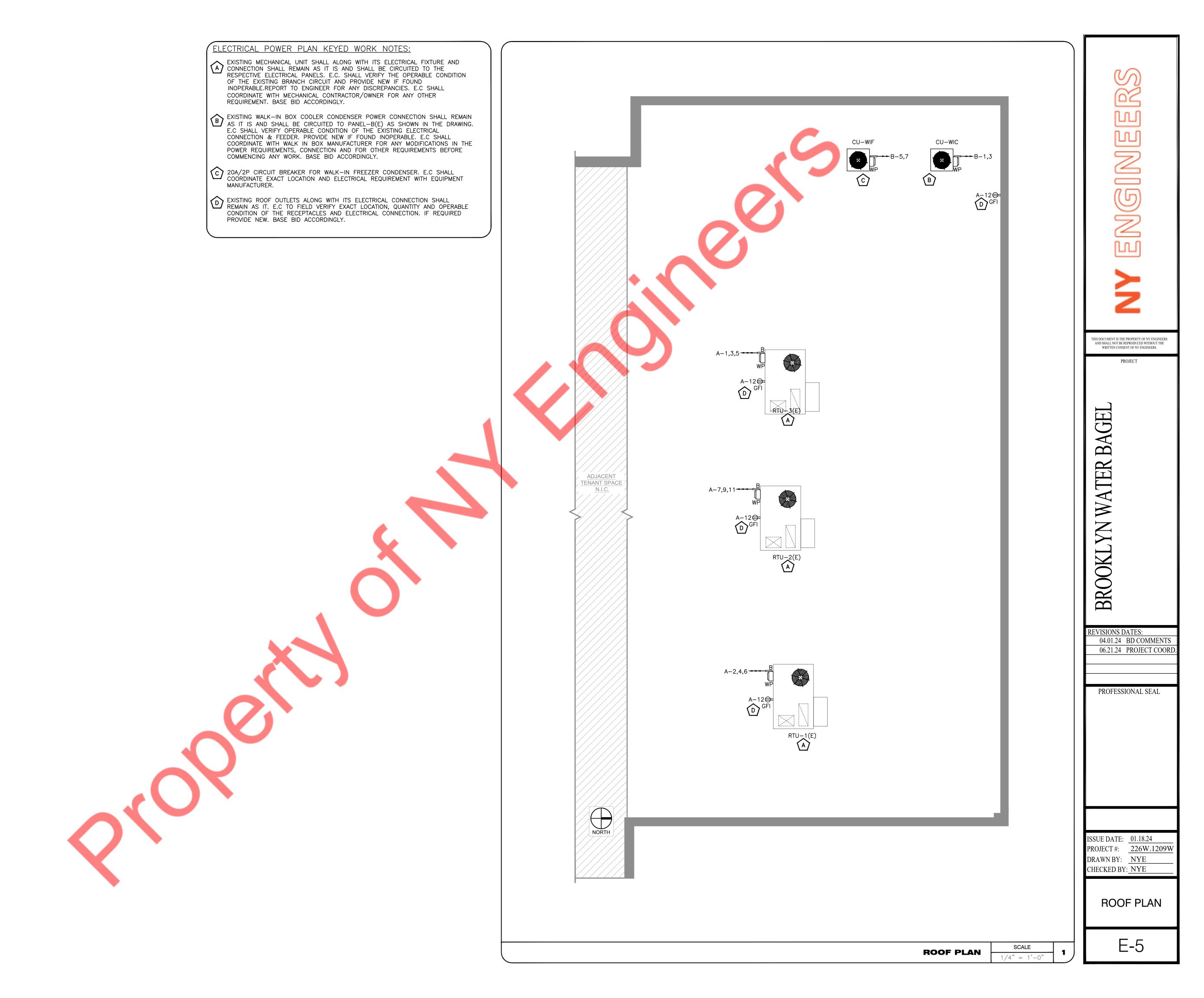
3. SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF DEVICES.





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LOW VOLTAGE



#### PANEL SCHEDULES:

PAINEL:	A(E.) (10	1A)												MOUNTING: RECESSED		
208Y/120	VOLTS,		3	PHASE,			4	WIRE						PANEL LOCATION: HALLWAY		
MAIN CB:	NA		MLO:	400A		BUS:	400A	MIN,						FED FROM: EXISTING METER/DISCONN	NECT	
NOTE:																
CKT NO.	TRIP	,	DESCRIPTIO	N OF LOAD	LOAD	LOAD	MINIMUM BRANCH	PI	ER PHASE (K\	/A)	MINIMUM BRANCH	LOAD	LOAD	DESCRIPTION OF LOAD	TRIP	CKT NO.
CKI NO.	AMPS	'	DESCRIPTIO	N OF LOAD	ТҮРЕ	(KVA)	CIRCUIT	Α	В	С	CIRCUIT	(KVA)	TYPE	DESCRIPTION OF LOAD	AMPS	CKI NO.
1					Н	4.44		8.89				4.44	Н			2
3	50/3P	RTU-3(E.)			Н	4.44	EXISTING		8.89		EXISTING	4.44	Н	RTU-1(E.)	50/3P	4
5					Н	4.44				8.89		4.44	Н			6
7					Н	4.44		4.44						SPARE	20	8
9	50/3P	RTU-2(E.)			Н	4.44	EXISTING		4.44					SPARE	20	10
11					Н	4.44				5.16	2#12, #12G, 3/4"C	0.72	R	ROOF RECEPTACLES	20	12
13	20	1_BEVERAGE DIS			E	0.34	2#12, #12G, 3/4"C	0.34			1					14
15	20	1_BEVERAGE DIS			E	0.34	2#12, #12G, 3/4"C		0.34		4 1			SPARE	20/3P	16
17	20	1B_ICE MACHINE			E	1.30	2#12, #12G, 3/4"C			1.30						18
19	20	1B_ICE MACHINE			E	1.30	2#12, #12G, 3/4"C	1.30			1 1					20
21	20	21_PIZZA PREP TA			E	0.64	2#12, #12G, 3/4"C		0.64		4			SPARE	20/3P	22
23	20	21A_PIZZA PREP	TABLE		E	0.45	2#12, #12G, 3/4"C			0.45						24
25	<u>.</u>		_,		0	10.15		10.15								26
27	225/3P	PANEL-B(E.) (101	В)		0	10.15	EXISTING		10.15		4			SPARE	30/3P	28
29		20 14547 611655			0	10.15				10.15			_	CA CLASSIC PURPLERS POURLE POWE		30
31	20	28_MEAT SLICER			E	0.58	2#12, #12G, 3/4"C	1.30			2#12, #12G, 3/4"C	0.72	E	6A_CLASSIC BUBBLERS BOUBLE BOWL	20	32
33	20	RECEPTACLE- GEI	NERAL		R	0.90	2#12, #12G, 3/4"C		1.62	0.55	2#12, #12G, 3/4"C	0.72	E	6A_CLASSIC BUBBLERS BOUBLE BOWL	20	34
35	20/2P	22_MICROWAVE	(A)		E	1.60	2#12, #12G, 3/4"C	0.00		2.32	2#12, #12G, 3/4"C	0.72	E	6B_CLASSIC BUBBLERS MINI QUAD	20	36
37					E	1.60		9.06	0.00		444 466 4 4 /2//2	7.46	0	- PANEL CAN	425 /25	38
39	20/2P	22_MICROWAVE	$\langle A \rangle$		E	1.60	2#12, #12G, 3/4"C		9.06	0.00	4#1, #6G, 1 1/2"C	7.46	0	PANEL-C(N)	125/3P	40
41	1	1			l F	1.60				9.06		7.46	0			42

PANEL:	B(E.) (10	1B)												MOUNTING: RECESSED		
208Y/120	VOLTS,		3	PHASE,			4	WIRE						PANEL LOCATION: HALLWAY		
MAIN CB:	NA		MLO:	225A		BUS:	225A	MIN,						FED FROM: PANEL A(E.)		
NOTE:	•		•	-			•							· · · · · · · · · · · · · · · · · · ·		
CKT NO.	TRIP AMPS		DESCRIPTIO	N OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	A	ER PHASE (K\ B	/A) C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20/25	24 MALK IN 60	OLED COND	ENCED	E	1.20	2442 4426 2/486	1.32			2#12, #12G, 3/4"C	0.12	E	7_CREAM DISPENSER-FLEXOSHOT	20	2
3	20/2P	34_WALK-IN CO	OLER CONDE	ENSER	E	1.20	2#12, #12G, 3/4"C		1.32		2#12, #12G, 3/4"C	0.12	E	7_CREAM DISPENSER-FLEXOSHOT	20	4
5	20/20	22 WALK IN ED		ENCED	E	1.20	2442 4426 2/486			1.32	2#12, #12G, 3/4"C	0.12	E	7_CREAM DISPENSER-FLEXOSHOT	20	6
7	20/2P	33_WALK-IN FR	EEZEK CONDI	EINSEK	E	1.20	2#12, #12G, 3/4"C	2.80			2#12 #126 2/4"6	1.60	E	20_BAGEL AND BUN TOASTER	20/20	8
9	20	34_WALK-IN CO	OLER EVAPO	RATOR	0	0.30	2#12, #12G, 3/4"C		1.90		2#12, #12G, 3/4"C	1.60	E	20_BAGEL AND BUN TOASTER	20/2P	10
11	20	LIGHTING- DINII AREA	NG AREA, HA	LLWAY, FRONT SERVICE	L /2	1	2#12, #12G, 3/4"C			4.36	2#8, #10G, 3/4"C	3.80	E	3_COFFEE BREWER	50/2P	12
13	20	LIGHTNG- RESTF	ROOMS, PREF	P AREA, COOK LINE	L	0.72	2#12, #12G, 3/4"C	4.52				3.80	E			14
15	20	33_WALK-IN BO	XE FREEZER	LIGHTING	L	0.20	2#12, #12G, 3/4"C		2.18		2#10, #12G, 3/4"C	1.98	Е	24_FAST COOKING MULTI-TECHNOLOGY OVEN F	30/2P	16
17	20	SHOW WINDOV	V RECEPTACL	E	L	1.00	2#12, #12G, 3/4"C			2.98	2#10, #120, 3/4 C	1.98	Е	24_LAST COOKING WIGHT TECHNOLOGY OVEN	30/21	18
19	20	34_WALK-IN BO	X COOLER LI	GHTING	L	0.10	2#12, #12G, 3/4"C	0.10						SPARE	20	20
21	20	36_PLANETARY	MIXER - FLO	OR	E	1.84	2#12, #12G, 3/4"C		2.62		2#12, #12G, 3/4"C	0.78	E	19_BAGEL SLICER	20	22
23	20	K1_KIOSK WITH	TOUCH SCRE	EEN	E	0.50	2#12, #12G, 3/4"C			1.28	2#12, #12G, 3/4"C	0.78	E	19_BAGEL SLICER	20	24
25	20/2P	33_WALK-IN FR	FF7FR FVAPC	ORATOR	E	0.96	2#12, #12G, 3/4"C	1.74			2#12, #12G, 3/4"C	0.78	E	19_BAGEL SLICER	20	26
27	20,21	00_1171=1111111			E	0.96	2112, 1123, 37 1 3		2.16		2#12, #12G, 3/4"C	1.20	E	16_48"TV	20	28
29	20	SPARE								0.20	2#12, #12G, 3/4"C	0.20	L	BULDING SIGNAGE	20	30
31	20	14_POS TERMIN			R	0.72	2#12, #12G, 3/4"C	1.32			2#12, #12G, 3/4"C	0.60	0	WH-E	20	32
33	20	11_MUFFIN CAS			E	0.12	2#12, #12G, 3/4"C		0.30		2#12, #12G, 3/4"C	0.18	0	35A_BWB WATER SYSTEM RO	20	34
35	20	<del>                                     </del>		MPLICITY BUBBLER	E	1.02	2#12, #12G, 3/4"C			1.20	2#12, #12G, 3/4"C	0.18	0	35_BWB WATER SYSTEM TANK	20	36
37	20	2_BEVERAGE DI	SPENSER-SIM	MPLICITY BUBBLER	E	1.02	2#12, #12G, 3/4"C	2.82			<u> </u>	1.80	E			38
39	20/2P	20_BAGEL AND	BUN TOASTE	R C	E	1.60	2#12, #12G, 3/4"C		3.40		4#12, #12G, 3/4"C	1.80	É	32_BAGEL RACK OVEN	20/3P	40
41					E	1.60				3.40		1.80	E			42
						TOTAL CO	NNECTED LOAD (KVA)	14.62	13.87	14.73						

PANEL:	C(N.)												MOUNTING: RECESSED		
208Y/120	VOLTS,	3	PHASE,			4	WIRE						PANEL LOCATION: HALLWAY		
MAIN CB:	NA	MLO:	125A		BUS:	125A	MIN,						FED FROM: PANEL A(E.)		
NOTE:		<b>'</b>	•			•							,		
CKT NO.	TRIP AMPS	DESCRIPTION	ON OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	P A	ER PHASE (K\	/A) C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1 3	20/2P	22_MICROWAVE		E E	1.60 1.60	2#12, #12G, 3/4"C	3.58	3.58		2#10, #12G, 3/4"C	1.98 1.98	E E	24_FAST COOKING MULTI-TECHNOLOGY OVEN	30/2P	2 4
5	20/2P	22_MICROWAVE		E E	1.60 1.60	2#12, #12G, 3/4"C	3.58		3.58	2#10, #12G, 3/4"C	1.98 1.98	E E	24_FAST COOKING MULTI-TECHNOLOGY OVEN	30/2P	6
9	20/2P	22_MICROWAVE		E E	1.60 1.60	2#12, #12G, 3/4"C		1.90	2.32	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	0.30	E R	5_ICE DISPENSER RECEPTACLE- GENERAL	20	10 12
13	20/2P	22_MICROWAVE		E	1.60	- 2#12, #12G, 3/4"C	2.40		2.32	2#12, #12G, 3/4"C	0.80	E	23_HEATED CABINET, COUNTERTOP	20	14
15 17	20/2P	22_MICROWAVE		E E	1.60	2#12 #126 2/4"6	-61	2.40	1.67	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	0.80	E H	23_HEATED CABINET, COUNTERTOP D1-1(N)	20	16 18
19 21	20/2	4 COFFEE THERMAL DISPER	NSFR	E E	1.60 0.14	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	1.67	0.18		2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	0.07 0.04	H H	D1-2(N) BEF-1(N), BEF-2(N),	20 20	20 22
23	20	4_COFFEE THERMAL DISPER		E	0.14	2#12, #12G, 3/4"C		0.10	3.02	2#8, #10G, 3/4"C	2.88	E	12_GRAB AND GO	40	24
25	20	4_COFFEE THERMAL DISPER	NSER	E	0.14	2#12, #12G, 3/4"C	0.22			2#12, #12G, 3/4"C	0.07	Н	KEF-1(N)	20	26
27	20	4_COFFEE THERMAL DISPER	NSER	E	0.14	2#12, #12G, 3/4"C		0.22		2#12, #12G, 3/4"C	0.07	Н	KEF-2(N)	20	28
29	20	4_COFFEE THERMAL DISPER		E	0.14	2#12, #12G, 3/4"C			0.42	2#12, #12G, 3/4"C	0.28	Н	ACH-1(N)	20	30
31	20	4_COFFEE THERMAL DISPER		E	0.14	2#12, #12G, 3/4"C	0.50			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- IT RACK	20	32
33	20	4A_SINGLE REMOTE WARM		E	0.07	2#12, #12G, 3/4"C		0.43		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- USB	20	34
35	20	4B_DOUBLE REMOTE WARI		E	0.32	2#12, #12G, 3/4"C			0.68	2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- DESK	20	36
37	20	4B_DOUBLE REMOTE WARI		E	0.32	2#12, #12G, 3/4"C	0.32						SPARE	20	38
39	20	4B_DOUBLE REMOTE WARI	MER STAND	E	0.32	2#12, #12G, 3/4"C		0.32					SPARE	20	40
41	20	RCP-1		0	0.09	2#12, #12G, 3/4"C			0.09				SPARE	20	42
					TOTAL CON	NNECTED LOAD (KVA)	12.27	9.03	11.77						

## PANEL GENERAL NOTES:

- 1. ALL CIRCUITING IS SHOWN FOR PANEL "A" (101A) & "B" (101B) FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES ON FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
- 2. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE. 3. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT CIRCUIT NUMBER &
- BREAKER SIZE OF EXISTING DEVICES IN FIELD. 4. E.C. SHALL PROVIDE NEW CIRCUIT BREAKERS IN PLACE OF EXISTING CIRCUIT BREAKERS WHEREVER NECESSARY TO BE IN LINE WITH THE PANEL SCHEDULE. ALSO CHECK COMPATIBILITY OF NEWLY ADDED BREAKERS WITH EXISTING PANEL BEFORE PURCHASE
- E.C. SHALL VERIFY THE EXISTING EQUIPMENT LOAD & RATINGS IN FIELD AND ACCORDINGLY CONSIDER THE ELECTRICAL LOAD IN PANEL BOARD SCHEDULE.

## PANEL SCHEDULE KEY NOTES:

- A PROVIDE (1) 20/2P BREAKER IN PLACE OF (2) SPACES.
- B PROVIDE (1) 125/3P BREAKER IN PLACE OF (3) SPACES.
- C PROVIDE (1) 20/2P BREAKER IN PLACE OF (1) 15/2P BREAKER.
- D PROVIDE (1) 20/2P BREAKER IN PLACE OF (2) 20/1P BREAKER.
- E PROVIDE (1) 50/2P BREAKER IN PLACE OF (2) 20/1P BREAKER.
- F PROVIDE (1) 30/2P BREAKER IN PLACE OF (2) 20/1P BREAKER.
- G PROVIDE (1) 20/3P BREAKER IN PLACE OF (3) 20/1P BREAKER.

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PROJECT

# BAGEL WATER BROOKLYN

# REVISIONS DATES:

04.01.24 BD COMMENTS 2 06.21.24 PROJECT COORD.

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W DRAWN BY: NYE CHECKED BY: NYE

> **PANEL** SCHEDULE

#### **SCOPE OF WORK**

PROVIDE ALL PLUMBING FOR NEW BAGEL RESTAURANT WITHIN AN EXISTING BUILDING, INCLUDING ALL WATER, VENT, GREASE, SANITARY & GAS LINES AND CONNECT TO EXISTING/NEW UTILITIES. REUSE THE EXISTING GAS STORAGE WATER HEATER AND REUSE THE EXISTING GREASE INTERCEPTOR.

COORDINATE CONDENSATE LINE FOR WALK IN COOLER WITH LOCAL CODES.

COORDINATE WITH G.C. AND MECHANICAL CONTRACTOR FOR ANY REQUIRED CONDENSING WATER LINES.

#### **PLUMBING NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK.
- 8. ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW CONDITION.
- . PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- 5. ALL MATERIALS SHALL BE NEW.

OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT

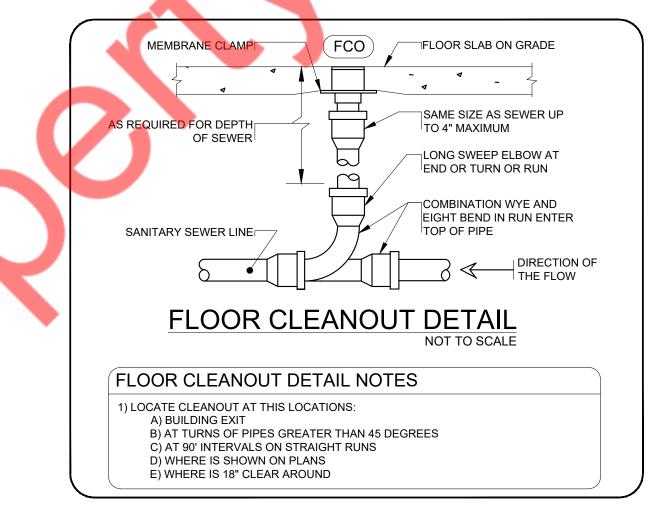
- . ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- . PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING
- ). DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.

EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY

- 10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- . VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- 12. EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
- 13. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN
- 14. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- 15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
- 16. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE.
- 17. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
- 18. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
- 19. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED. PROVIDE
- 20. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF. 21.PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PAN<mark>EL F</mark>OR ALL
- 22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR
- 23. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, AL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION
- 24. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH 40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
- 25. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- 26. NO JOINTS UNDERGROUND FOR COPPER.

CLEANOUTS.

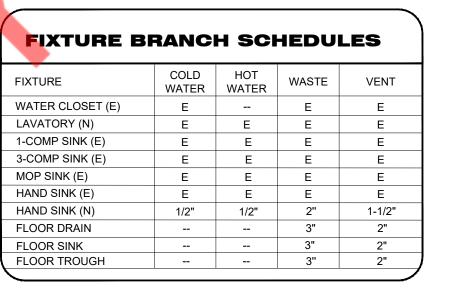
- 27. PLUMBING FIXTURES SHALL COMPLY WITH 2023 FLORIDA PLUMBING CODE, 8TH EDITION
- 28. WATER HAMMER ARRESTORS AS PER 2023 FLORIDA PLUMBING CODE, 8TH EDITION.
- 29. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.
- 30. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET).
- 31. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
- 32. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. PROVIDE A COPY

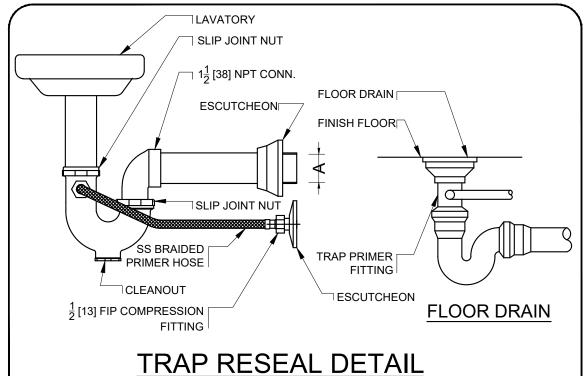


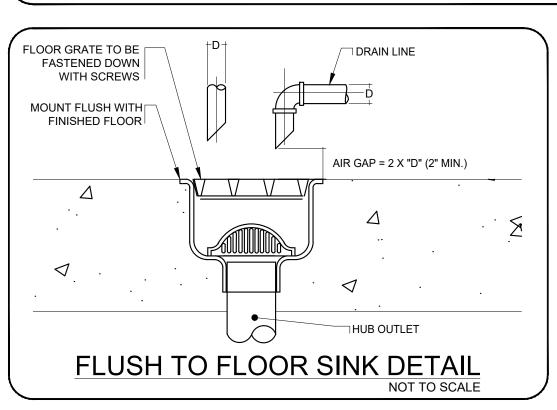
( 044	SANITARY SEWER PIPING
$\longrightarrow$ SAN $\longrightarrow$	(UNDERGROUND)
$\longrightarrow$ GSAN— $\longrightarrow$	GREASE SANITARY SEWER PIPING (UNDERGROUND)
- $        -$	VENT PIPING
<b>├</b>	DOMESTIC COLD WATER PIPING
∫	EXISTING COLD WATER PIPING
<i></i>	HOT WATER PIPING
<b>S S</b>	EXISTING HOT WATER PIPING
<i></i>	HOT WATER RETURN PIPING
<u></u>	FILTERED WATER PIPING
<b>∫</b>	GAS PIPING
<b>├</b>	PIPE RISE
$\longleftarrow \subset \longrightarrow$	PIPE DROP
FCO 🔘 ——	FLOOR CLEAN OUT
<b>—</b> ∞	P-TRAP
S.O.V.	SHUT - OFF VALVE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
WCO	WALL CLEAN OUT
$\bowtie$	GATE VALVE
	FLOOR DRAIN
Ā	CHECK VALVE
I▼	GAS COCK
18.	BALANCING VALVE
FΤ	FLOOR TROUGH
	FLOOR SINK
•	POINT OF CONNECTION
	THERMOSTATIC MIXING VALVE

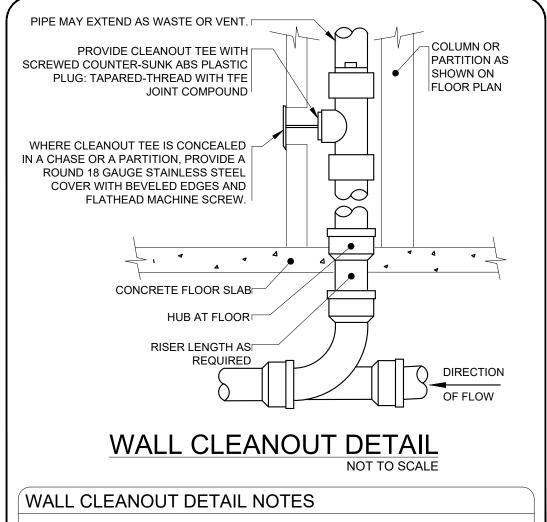
Item No.	Qty.	Description	Description Manufacturer M		Model	Hot	Cold	Waste	Usage	Spec	
Α	2	LAVATORY AM		ERICAN STANDARD 0355.012		5.012			E		
A1 2 2		LAVATORY FAUCET		AMERICAN STANDARD		7075.050		E		0.5	GPN
				EXISTING TO REMAIN E		EXISTING TO REMAIN		Е			
A2	2	PIPE INSULATION T		TRUEBRO LA		'GUARD					
В			EXIS	EXISTING TO REMAIN		EXISTING TO REMAIN		Е	Е		
KITCH	EN	EQUIPMENT PLUN	IBING	SCHEDULE				V	/ATER	WAS	STE
ITEM NO	. Q	TY. DESCRIPTION		MANUFACTURER		MODEL		Hot	Cold	Direct	Indired
1	2	BEVERAGE DISPENSER		SERVEND		SV-200					3/4"
1B	2	ICE MACHINE		MANITOWOC		ID-0302A INDIGO SE	ERIES 3	0	1/2"*		3/4"
3 1 COFFEE BREWER			CURTIS G4GEMTIF10B1000				1/2"*		3/4"		
5	1	ICE DISPENSER		SERVEND M-45						(2)3/4	
26	7	HAND SINK			JOHN BOOS PBHS-W-1410-SSL		R-X	1/2"	1/2"	1-1/2"	
26A	1	HAND SINK	HAND SINK		EXISTING TO REMAIN EXISTING TO REMA		ΝN	Е	Е	Е	
29	1	3 COMPARTMENT SINK		EXISTING TO REM	AIN	EXISTING TO REMAIN					E
29.1		PRE-RINSE FAUCET WIT ON FAUCET	H ADD	EXISTING TO REM	AIN	EXISTING TO REMA	dΝ	Е	Е		
29.2	2	LEVER WASTE	LEVER WASTE		EXISTING TO REMAIN EXISTING TO F		dΝ				Е
30	1	1 COMPARTMENT SINK	1 COMPARTMENT SINK		AIN	AIN EXISTING TO REMA					Е
30.1		FAUCET	FAUCET		AIN	EXISTING TO REMAIN		Е	Е		
31		MOP SINK		EXISTING TO REM	AIN	EXISTING TO REMA	dΝ			Е	
31.2	1	MOP SINK FAUCET		EXISTING TO REM	AIN	EXISTING TO REMA	dΝ	E	E		
32	1	BAGEL OVEN- RACK OVEN		EXCALIBUR EXL-1		EXL-1		-	1/2"		
33	1	WALK-IN FREEZER		THERMALRITE CUSTOM							
34	1	WALK-IN COOLER		EXISTING TO REMAIN EXISTING TO REM		EXISTING TO REMA	dΝ				
35	1	BWB WATER SYSTEM - TANK		FLEXWAVW FWR01		FWR0120			3/4"		
35A	1	BWB WATER SYSTEM RO	)	ASHBERRY		NS-300					
36	1	30 QT PLANETARY FLOOR MIXER		GLOBE SP30						(2)3/4'	
37	1	WATER HEATER		EXISTING TO REM	AIN	EXISTING TO REMA	ΝN				
	2	THERMAL MIXING VALVE		WATTS		LFMMV		1/2"	1/2"		
FS	5	FLOOR SINKS		ZURN	Z1900-23-31 (ZS19 EXPOSED AREAS)		0 IF IN			3"	
FD	1	FLOOR DRAINS**		ZURN		ZS415 W/ TYPE BS STRAINER				3"	
+ HOT WA	TER 1	40 DEG, *FILTERED (BWB) W	ATER, **PI	ROVIDE TRAP PRIMI	ERS F		INS.				
		-, -: (-:3 <b>-)</b>	-, .								

RESTROOM FIXTURE SCHEDULE









1) PROVIDE WCO WHERE SHOWN ON PLANE, AND ON SANITARY WASTE BRANCHES NOT

SERVED WITH A FLOOR CLEANOUT. 2) LOCATE ABOVE FIXTURE FLOOR RIM WITHIN 4' OF FLOOR.

IF REQUIRED.

3) CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS. 4) LONG SWEEP AT END OF LINE OR COMBINATION WYE AND EIGHT BEND IN RUN OF LINE. 5) CLEAN OUT FACE SHALL BE WITHIN 4" OF WALL SURFACE. PROVIDE A PIPE EXTENSION

PROVIDE CLEANOUTS IN [ TURNS/ENDS OF PIPE. DISCHARGE INTO CENTER HOLE OF USE DWV FITTINGS IF GRATE OF WASTE RECEPTACLE SIZE IS LARGER THAN 1" WITH AIR GAP SUFFICIENT TO REMOVE GRATE AND STRAINER. SLOPE PIPE AS MINIMUM GAP = TWO PIPE DIAMETERS MUCH AS POSSIBLE 🔀 TOWARD DISCHARGE MAKE CONNECTION TO EQUIPMENT AS REQUIRED MAKE PIPE MINIMUM ONE SIZE LARGER THAN EQUIPMENT VERIFY WITH LOCAL CODES CONNECTION, MINIMUM 3/4". USE IF/WHEN TRAP AND/OR VENT ARE "M" OR "L" HARD COPPER UP TO 1" REQUIRED FOR THE LENGTH OF AND TYPE DWV FOR LARGER lacksquareDRAIN PIPE INSTALLED

ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

INDIRECT WASTE DETAIL

WATER WASTE

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PROJECT

M TE BROOKL

EVISIONS DATES: 04.01.24 BD COMMENTS 06.21.24 PROJECT COORD

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24 PROJECT #: 226W.1209W DRAWN BY: NYE

CHECKED BY: NYE

**PLUMBING** LEGENDS,NOTES & DETAILS

PROJECT

ISSUE DATE: 01.18.24
PROJECT #: 226W.1209W
DRAWN BY: NYE
CHECKED BY: NYE

SANITARY PLAN & RISER

P-2

SCALE

1/4" = 1'-0"

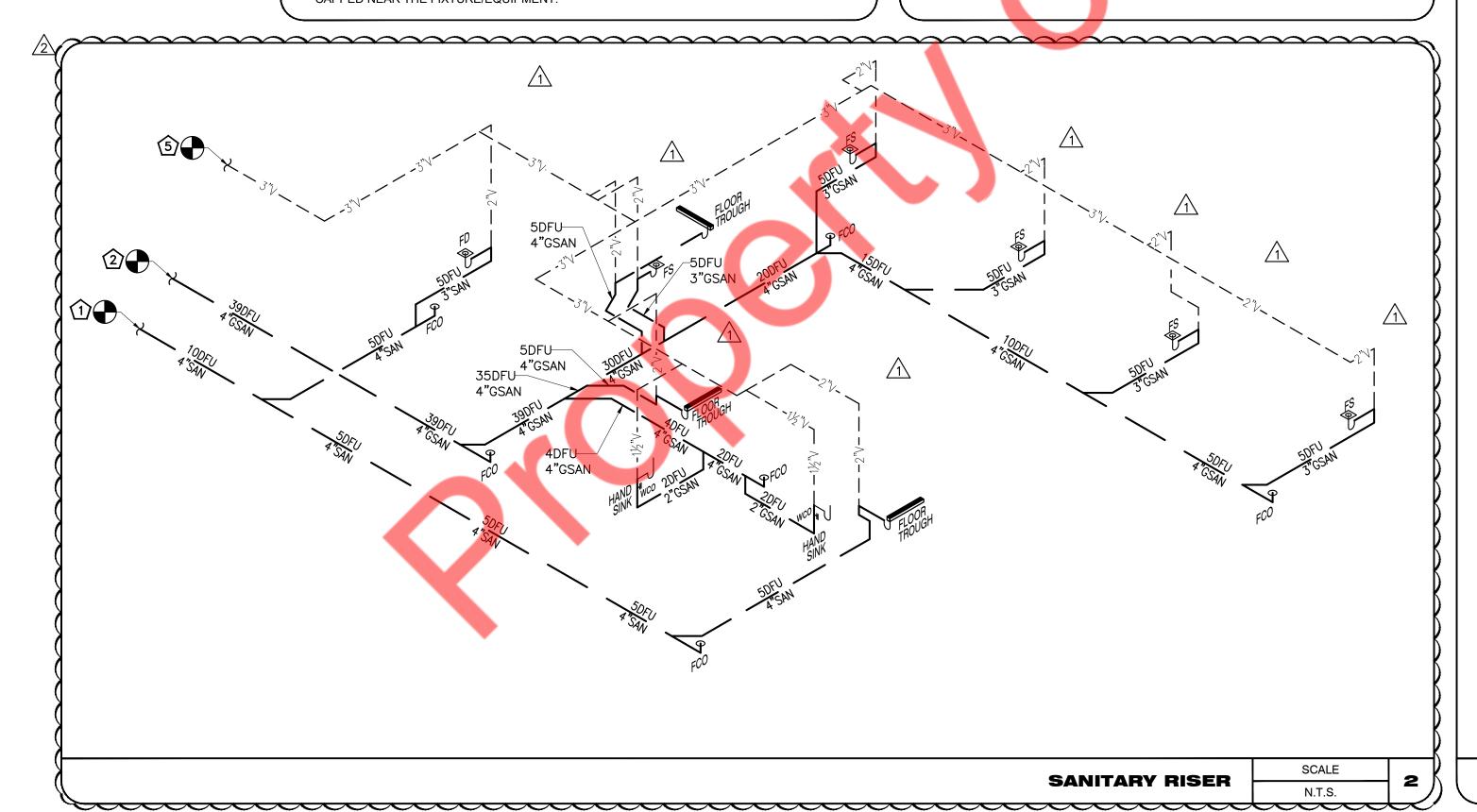
**SANITARY PLAN** 

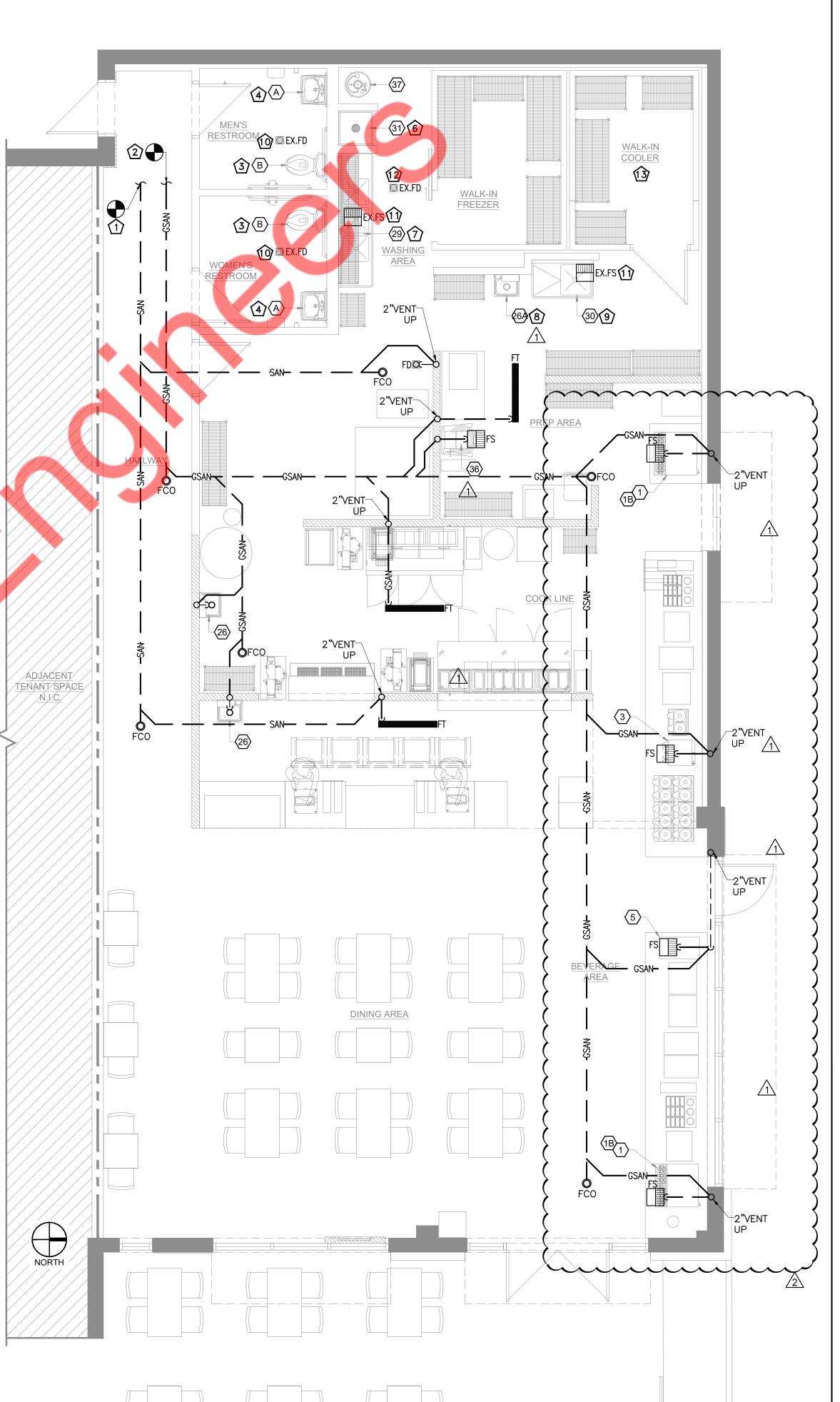
#### SANITARY PLAN & RISER KEY NOTE

- EXTEND & CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT OF EXISTING SANITARY MAIN AND MAKE NECESSARY CHANGES IF REQUIRED.
- EXTEND & CONNECT NEW 4" GREASE SANITARY WASTE PIPING TO EXISTING GREASE SANITARY LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT OF EXISTING GREASE SANITARY LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
- EXISTING WATER CLOSET TO REMAIN WITH EXISTING SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING LAVATORY TO REPLACE WITH NEW LAVATORY AND CONNECT THE NEW LAVATORY PIPING TO THE EXISTING PIPING CONNECTIONS. EXISTING LAVATORY SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS TO REMAIN. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- CONNECT NEW 3" VENT PIPING TO EXISTING VENT LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING VENT PIPE AND UPGRADE IF REQUIRED.
- EXISTING MOP SINK TO REMAIN WITH EXISTING GREASE SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING 3-COMP SINK TO REMAIN WITH INDIRECT WASTE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING HAND SINK TO REMAIN WITH EXISTING GREASE SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING 1-COMP SINK TO REMAIN WITH INDIRECT WASTE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING FLOOR DRAIN TO REMAIN WITH EXISTING SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING FLOOR SINK TO REMAIN WITH EXISTING GREASE SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING FLOOR DRAIN TO REMAIN WITH EXISTING GREASE SANITARY AND VENT PIPE CONNECTION, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXISTING WALK-IN COOLER TO BE REMAIN WITH EXISTING CONDENSATE DRAIN LINE AND CONNECTIONS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING CONDENSATE DRAIN PIPE AND REPLACE IF REQUIRED.

**GENERAL NOTES** 

- 1. SLOPE OF DRAINAGE PIPING SHALL BE 1/8" PER FOOT OF RUN FOR PIPE 3" TO 6" AND 1/4" PER FOOT OF RUN FOR PIPE 2-1/2" AND SMALLER.
- 2. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
- ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
- 4. ALL CLEANOUTS TO BE ACCESSIBLE.
- 5. CONTRACTOR TO FIELD VERIFY THE EXISTING SANITARY, GREASE SANITARY AND VENT LOCATION AND ROUTING. MAKE NECESSARY CHANGES TO NEW PIPING AS PER THE EXISTING SITE CONDITION.
- 6. CONTRACTOR TO REUSE EXISTING SANITARY AND GREASE SANITARY PIPING IN SPACE AND MAKE SURE THAT THE EXISTING PIPING SHOULD BE IN GOOD CONDITION. MAKE NECESSARY CHANGES TO THE EXISTING PIPING AS PER SITE CONDITION AND REPLACE IF REQUIRED.
- 7. CONTRACTOR TO FIELD VERIFY THE LOCATION AND CAPACITY OF THE EXISTING GREASE INTERCEPTOR AND NOTIFY THE ENGINEER IF IT IS NOT IN GOOD CONDITION OR UNDERSIZED. CONTRACTOR TO MAKE SURE THAT THE EXISTING GREASE INTERCEPTOR IS CODE COMPLIANT. IF NOT, THEN MAKE NECESSARY CHANGES AS REQUIRED BY LOCAL CODE.
- . EXISTING SANITARY/VENT PIPES FROM EXISTING DEMOLISHED FIXTURE/EQUIPMENT TO BE CAPPED NEAR THE FIXTURE/EQUIPMENT.





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PROJECT

PROJECT

OOKLYN WATER BAGEL

REVISIONS DATES:

04.01.24 BD COMMENTS

2 06.21.24 PROJECT COORD

PROFESSIONAL SEAL

ISSUE DATE: 01.18.24
PROJECT #: 226W.1209W
DRAWN BY: NYE

CHECKED BY: NYE

WATER PLAN & RISER

P-3

SCALE

1/4" = 1'-0"

**WATER PLAN** 

#### WATER PLAN & RISER KEY NOTE

- CONNECT NEW 1-1/4" CW LINE TO THE EXISTING WATER MAIN LINE IN SPACE OF ADEQUATE SIZE WITH EXISTING WATER METER AND SHUT OFF VALVE. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF THE EXISTING CW PIPING, WATER METER AND SHUT OFF VALVE AND UPGRADE IF REQUIRED.
- 2 NO TAP OFF TO BE TAKEN BEFORE BFP.
- EXISTING LAVATORY TO REPLACE WITH NEW LAVATORY AND CONNECT THE NEW LAVATORY PIPING TO THE EXISTING PIPING CONNECTIONS. EXISTING LAVATORY CW/HW PIPING CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS TO REMAIN. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- EXTEND AND CONNECT NEW 1/2" CW/HW PIPING TO THE EXISTING LAVATORY PIPING AND CONNECT NEW HW RETURN PIPING TO THE EXISTING HW PIPING AS SHOWN.
- EXISTING WATER CLOSET TO REMAIN WITH EXISTING CW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- 6 EXTEND AND CONNECT NEW 1/2" CW PIPING TO THE EXISTING WATER CLOSET PIPING.
- EXISTING MOP SINK TO REMAIN WITH EXISTING CW/HW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- 8 EXTEND AND CONNECT NEW 1/2" CW/HW PIPING TO THE EXISTING MOP SINK PIPING.
- EXISTING 3-COMP SINK TO REMAIN WITH EXISTING CW/HW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE
- CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- EXTEND AND CONNECT NEW 3/4" CW/HW PIPING TO THE EXISTING 3-COMP SINK PIPING.

  EXISTING HAND SINK TO REMAIN WITH EXISTING CW/HW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- EXTEND AND CONNECT NEW 1/2" CW/HW PIPING TO THE EXISTING HAND SINK PIPING.
- PIPING.

  EXISTING 1-COMP SINK TO REMAIN WITH EXISTING CW/HW CONNECTION, ASSOCIATED ACCESSORIES & FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING & REPLACE IF REQUIRED.
- EXTEND AND CONNECT NEW 1/2" CW/HW PIPING TO THE EXISTING 1-COMP SINK PIPING.
- EXISTING WATER HEATER TO REMAIN WITH EXISTING EXPANSION TANK, RE-CIRCULATING PUMP, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING WATER HEATER AND PROVIDE NECESSARY ACCESSORIES IF REQUIRED.
- EXTEND AND CONNECT NEW 1" CW/HW & 3/4" HWR PIPING TO THE EXISTING WATER HEATER CW/HW/HWR.

**EXISTING WATER HEATER SCHEDULE** MANUFACTURER A.O. SMITH BTX 100 140 MODEL **EQUIPMENT TAG** STATUS **EXISTING** GAS **FUEL** CAPACITY 50 GALLONS QUANTITY 100 RECOVERY 116 GPH\* **VOLTAGE** 120/1/60 **AMPERAGE** 

\*OPERATION @ 100°F TEMPERATURE RISE.

CONTRACTOR TO FIELD VERIFY THE OPERATING CONDITION OF THE EXISTING WATER HEATER AND NOTIFY THE

ELECTRICAL POWER REQUIREMENTS AND COORDINATE WITH ELECTRICAL

CONTRACTOR BEFORE COMMENCING THE

CONTRACTOR TO FIELD VERIFY THE OPERATING CONDITION OF THE EXISTING THERMAL EXPANSION TANK AND REPLACE

REUSE EXISTING RCP IF AVAILABLE AND IF

IT IS IN GOOD CONDITION OR PROVIDE

NEW RCP OF MINIMUM 2 GPM FLOW AND

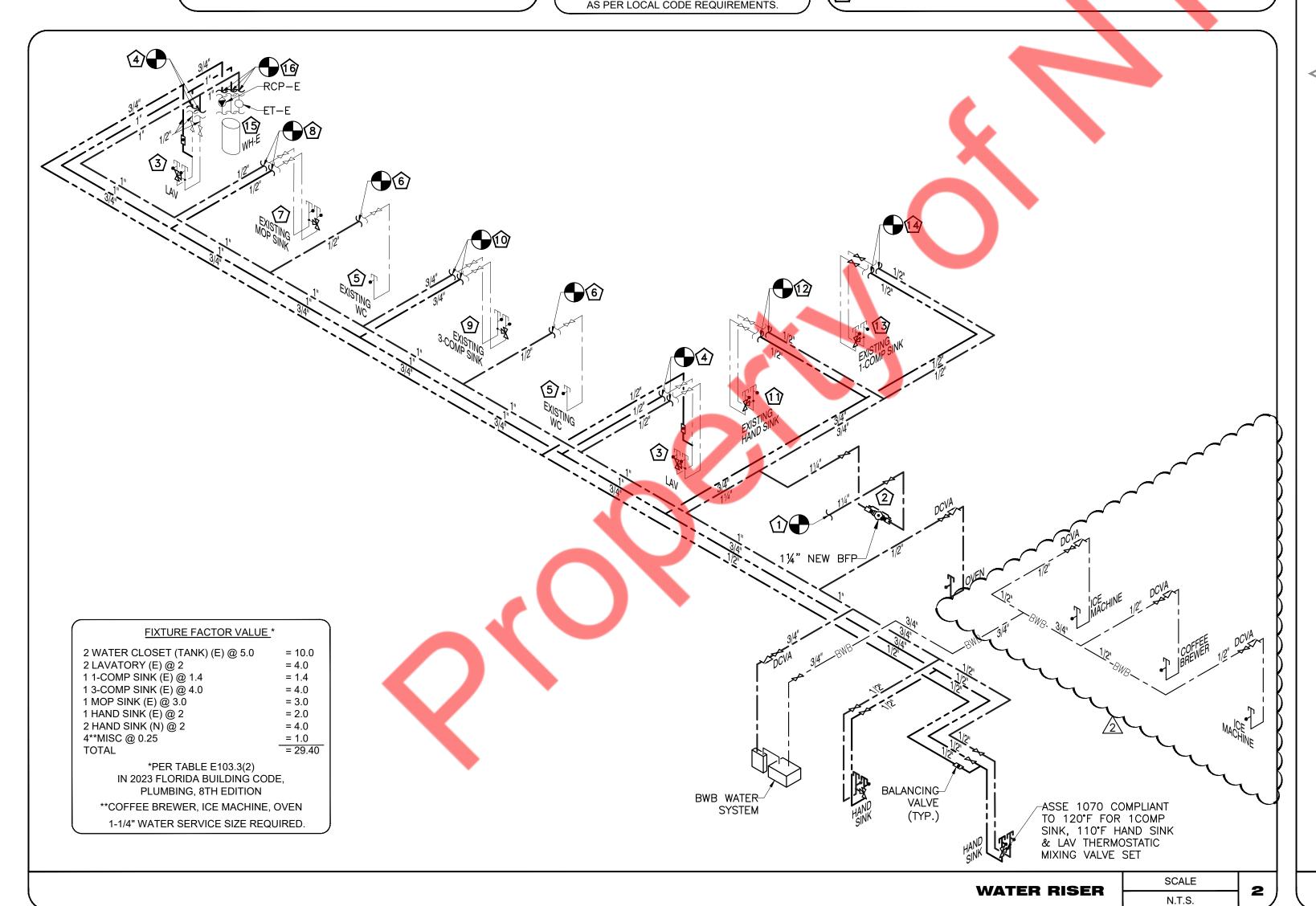
10' HEAD WITH AQUA STAT AND TIMER KIT

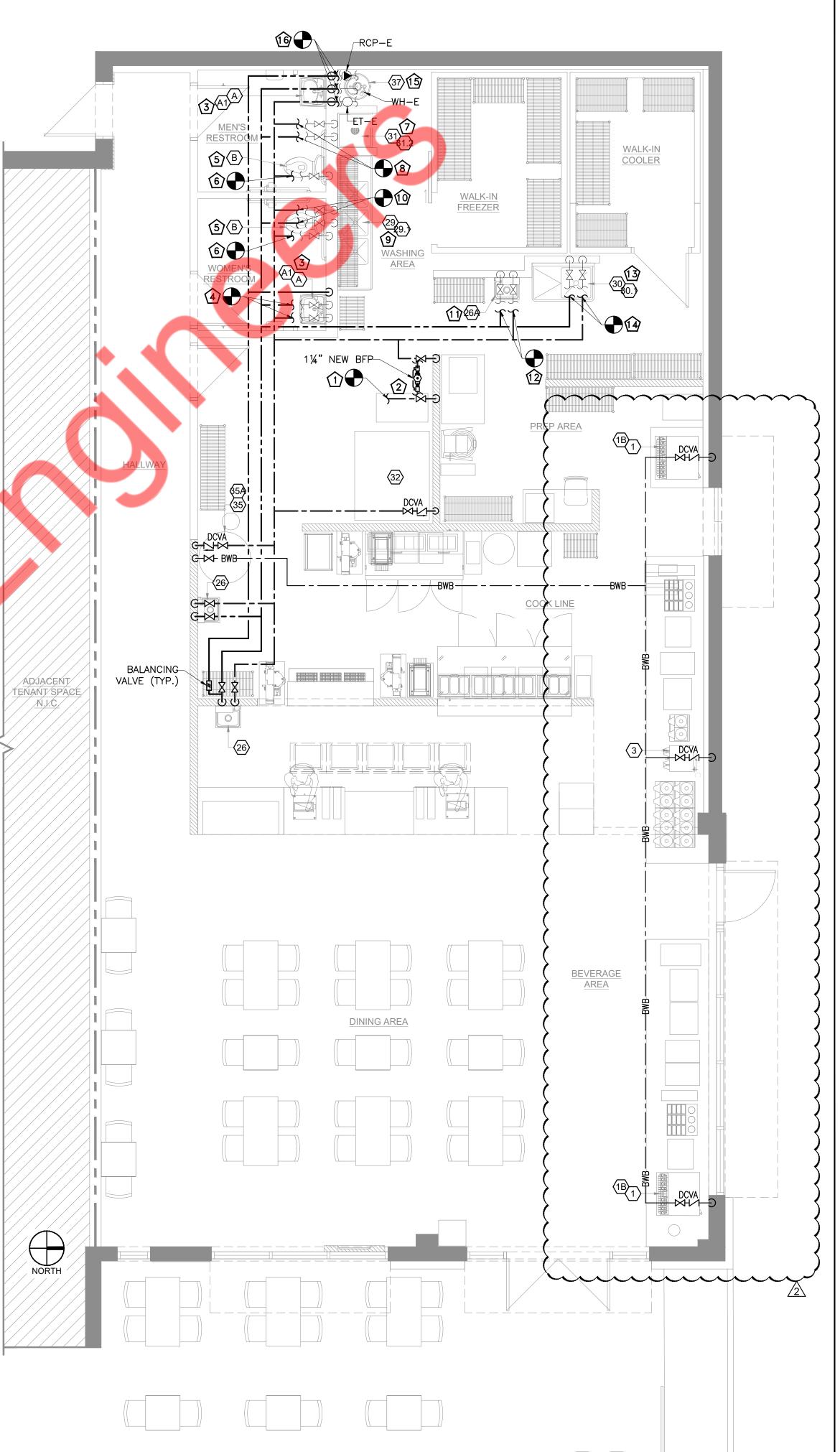
ENGINEER IF NOT IN OPERATING CONDITION. ALSO FIELD VERIFY

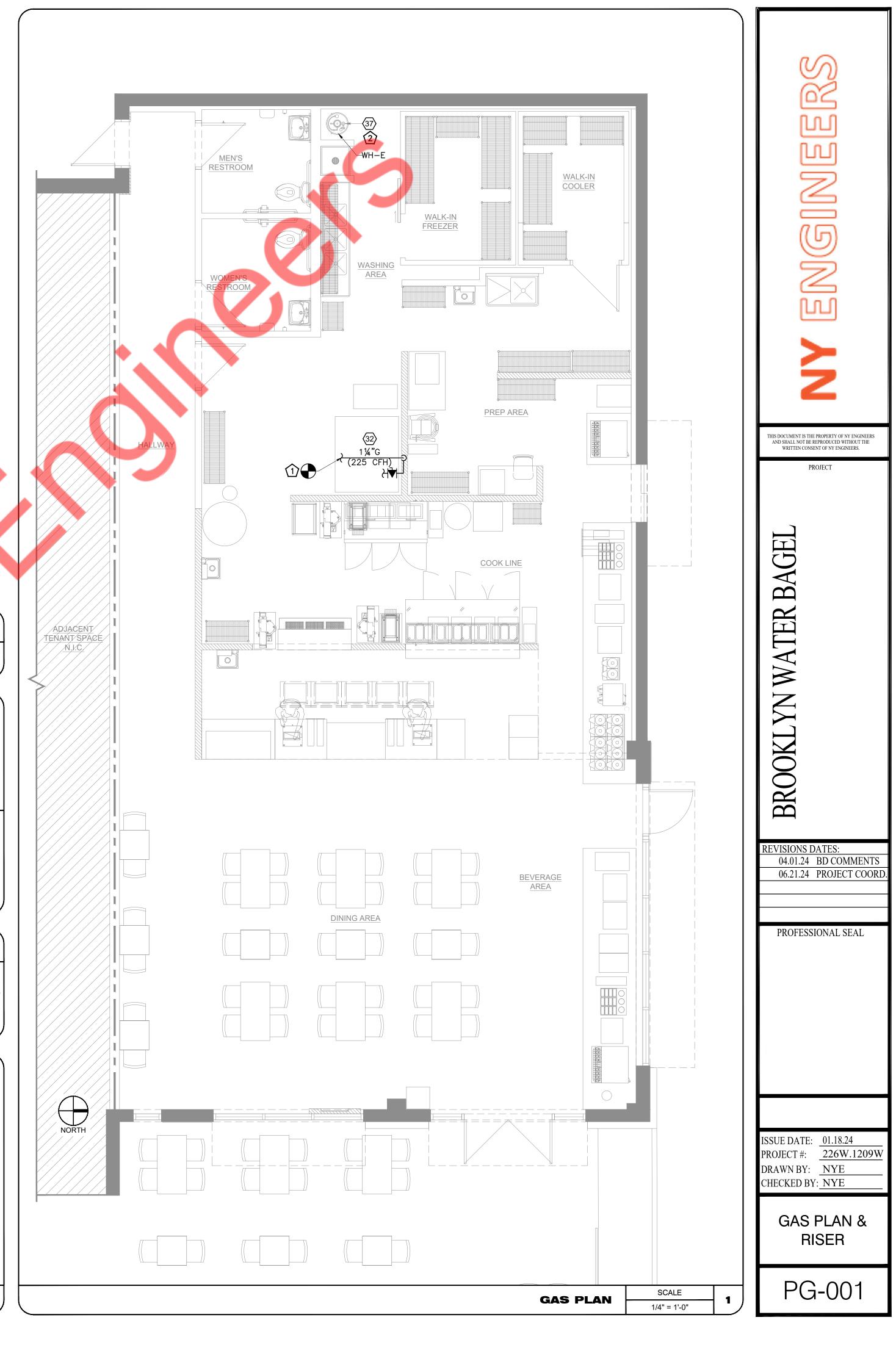
IF REQUIRED.

#### GENERAL NOTES

- CW/HW/HWR PIPING TO BE PROVIDED WITH INSULATION AS PER 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 8TH
- PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
   PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR & SHUT-OFF VALVES AS REQUIRED.
- 5. REFER WATER RISER DIAGRAM FOR ALL PIPE SIZES.
- 6. CONTRACTOR CAN REUSE EXISTING HW/CW/HWR PIPING IF THE SIZING, LOCATION & SPECIFICATION OF EXISTING PIPING ARE AS PER OUR DRAWING. ALSO MAKE SURE THAT THE EXISTING PIPING SHOULD BE IN GOOD CONDITION.
- EXISTING WATER HEATER DRAIN TO REMAIN.







GENERAL NOTES

EXISTING GAS PIPES FROM EXISTING DEMOLISHED FIXTURE/EQUIPMENT TO BE CAPPED NEAR THE FIXTURE/EQUIPMENT.

NATURAL GAS PIPING SYSTEM
PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE
GAS EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON
THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS, PRESSURE REGULATORS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

1. GAS PIPING TO BE SCHEDULE 40 STEEL PIPE W/125 CAST IRON SCREWD FITTINGS 2. GAS SYSTEM TO BE INSTALLED BY QUALIFIED LICENSED

CONTRACTOR. 3. VERIFY ALL EQUIPMENT BTU'S PRIOR TO INSTALLATION. ADJUST PIPE SIZE ACCORDING 2023 FBC-FUEL GAS 8TH EDITION(ADOPTS 2018 IFGC FUEL GAS CODE) FUEL GAS TABLE 402.4(2)

# GAS PLAN KEY NOTE

- EXTEND AND CONNECT NEW 1-1/4" GAS PIPING TO THE EXISTING GAS PIPING IN SPACE OF ADEQUATE SIZE.CONTRACTOR TO FIELD VERIFY THE SIZE, PRESSURE AND LOCATION OF EXISTING GAS PIPING AND UPGRADE IF REQUIRED. CONTRACTOR TO MAKE SURE TO PROVIDE ADEQUATE INLET PRESSURE REQUIRED FOR KITCHEN EQUIPMENT.
- EXISTING WATER HEATER TO REMAIN WITH EXISTING GAS PIPING. CONTRACTOR TO FIELD VERIFY THE PRESSURE, SIZE AND LOCATION OF EXISTING GAS PIPING AND UPGRADE IF REQUIRED.

			GAS SCHEDU	ILE		
ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SIZE	BTU/HR.
32	1	BAGEL OVEN	EXCALIBUR	EXL-1	11/4"	225,000
WH-E	1	EXISTING WATER HEATER	A.O.SMITH	BTX 100 140	1"	100,000
OTAL LOAD						325,000
	W 10	H-E-FH 0 CFH		1 225 CFAT BAGEL	OVEN CFH	
				AS RISER	SCALE	
				13 BI3FF		—— 2