REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	NYC DEPARTMENT OF BUILDINGS 185 BRICKTOWN WAY, STATEN ISLAND, NY 10309 SPECIAL DISTRICT – SRD SOUTH RICHMOND DEVELOPMENT	BUILDING DEPARTMENT:	NYC DEPARTMENT OF BUILDINGS 185 BRICKTOWN WAY, STATEN ISLAND, NY 10309 SPECIAL DISTRICT – SRD SOUTH RICHMOND DEVELOPMENT	HEALTH DEPARTMENT:	NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE DIVISION OF ENVIRONMENTAL HEALTH BUREAU OF FOOD SAFETY AND COMMUNITY SANITATION (BFSCS) 253 BROADWAY, 6 TH FLOOR, BOX CN-59A,NY 10007 T: (212) 676-1600
FIRE DEPARTMENT:	NEW YORK CITY FIRE DEPARTMENT DEPARTMENT OF FIRE PREVEION 185 BRICKTOWN WAY, STATEN ISLAND, NY 10309 SPECIAL DISTRICT – SRD SOUTH RICHMOND DEVELOPMENT	WATER UTILITY:	NEW YORK CITY WATER BOARD 59-17 JUNCTION BLVD, QUEENS, NY 11368 T: (718) 595-3594	SEWER UTILITY:	NEW YORK CITY WATER DEP 59-17 JUNCTION BLVD, QUEENS, NY 11368 T: (718) 595-7000
NATURAL GAS UTILITY:	NATIONAL GRID 1535 PITKIN AVE, BROOKLYN, NY 11212 T: (800) 322-3223	ELECTRICAL UTILITY:	CON EDISON 30 FLATBUSH AVENUE, BROOKLYN, NY 11217 T: (800) 752-6633	TELEPHONE UTILITY:	VERIZON 1095 AVENUE OF AMERICAS NEW YORK, NY 10036 CONTACT: CUSTOMER SERVICE T: (800) 852-5700

PROJECT INFORMATION

LANDLORD:	BRICKTOWN PASS, LLC 300 ROBBINS LANE, SYOSSET, NY 11791 CONTACT: MR. JON COHEN E: JCOHEN@BDG.NET T: (718) 966-0332	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: DANIEL RADMAN E: DRADMAN@CHIPTOLE.COM T: (203) 247-3636	ARCHITECT:	HBC ARCHITECTS, P.C. 122 WEST 27TH STREET 4TH FLOOR NEW YORK, NEW YORK 11001 CONTACT: JOSEPH CORRIDORE E: JOSEPHC@HBCARCH.COM T: (212) 647-0011 F: (212) 647-0022
MECHANICAL ELECTRICAL PLUMBING ENGINEER:	POLARIS CONSULTING ENGINEERS,PC 214 W. Main Street Suite #208 Moorestown, NJ 08057 CONTACT: ANTHONY FANELLI E: AFANELLI@POLARISCE.COM T: 856-778-5400				

UTILITY COORDINATOR

NOTE to GC: FOR ALL WATER, SEWER, NATURAL GAS, & ELECTRICITY UTILITIES CONTACT:

EBI CONSULTING
21 B ST.
BURLINGTON, MA 01803
CONTACT: JULIO VERA
E: JVERA@EBICONSULTING.COM
T: (787) 344-1439

SIGN VENDOR

BROADWAY NATIONAL
100 DAVIS DR
HAUPPAUGE, NY 11788
CONTACT: LANNETTE LUCKSAVAGE
E: LLUCKSAVAGE@BROADWAYNATIONAL.COM
T: (631) 737-4467 x 3008
F: (631) 737-1328

GRAPHIC SYMBOLS

- EXTERIOR ELEVATION MARKER (1 / A101)
- INTERIOR ELEVATION MARKER (1 / A101)
- SECTION MARKER (SIM / 1 / A101)
- SECTION / DETAIL (SIM / 1 / A101)
- VIEW LABEL (1 / A101 — View Name — View Scale)
- COLUMN GRID LABEL (0)
- ROOM NAME & NUMBER (Room name 101)
- REVISION NUMBER (1)
- DOOR NUMBER (1i)
- MISCELLANEOUS EQUIPMENT NUMBER (XX.X)
- FURNITURE NUMBER (XX.X)
- KITCHEN EQUIPMENT NUMBER (XX.X)
- WASHROOM ACCESSORIES NUMBER (X)
- WALL TAG (W1)
- LEVEL TARGET
- NORTH ARROW
- DIMENSION TARGET
- FINISH TAG (P1)

ABBREVIATIONS

℄	CENTER LINE
(E)	EXISTING CONSTRUCTION
(N)	NEW CONSTRUCTION
@	AT
Ø	DIAMETER OR ROUND
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
ASS	ALARM SYSTEM SUPPLIER
BD	BOARD
BLDG	BUILDING
CMU	CONCRETE MASONRY UNIT
CO2	CO2 SUPPLIER
CO2AS	CO2 ALARM SUPPLIER
CS	CHEMICAL SUPPLIER
DIM	DIMENSION(S)
EA	EACH
EL	ELEVATION (VERTICAL HEIGHT)
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FC	FOR CONSTRUCTION
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT-TREATED
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	HOOD SUPPLIER
HVAC	HEATING AND VENTILATING
ICP	INITIAL COST PROJECTION
IFP	IN FOR PERMIT
INT	INTERIOR
KES	KITCHEN EQUIPMENT SUPPLIER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MSS	MUSIC SYSTEMS SUPPLIER
N.I.C.	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
OSB	ORIENTED STRAND BOARD
POS	POINT OF SALE
PREP	PREPARATION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RTU	ROOF TOP UNITS
SIM	SIMILAR
SPS	SODA POP SUPPLIER
SS	SUPPORT SIGNAGE
STR	STRUCTURE
T	TENANT
TAB	TENANT'S TEST & BALANCE VENDOR
TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
THS	TENANT'S HARDWARE SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANTS PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TS	TENANT'S SAFE SUPPLIER
TSS	TENANT'S SMART SAFE SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SUPPLIER
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
VAR	VARIES
VIF	VERIFY IN FIELD
W/	WITH
WA	WASHROOM ACCESSORIES
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	WATER HEATER SUPPLIER
WS	TENANT'S WINDOW SHADE SUPPLIER

STORE NUMBER: 31-5447

CHARLESTON STATEN ISLAND

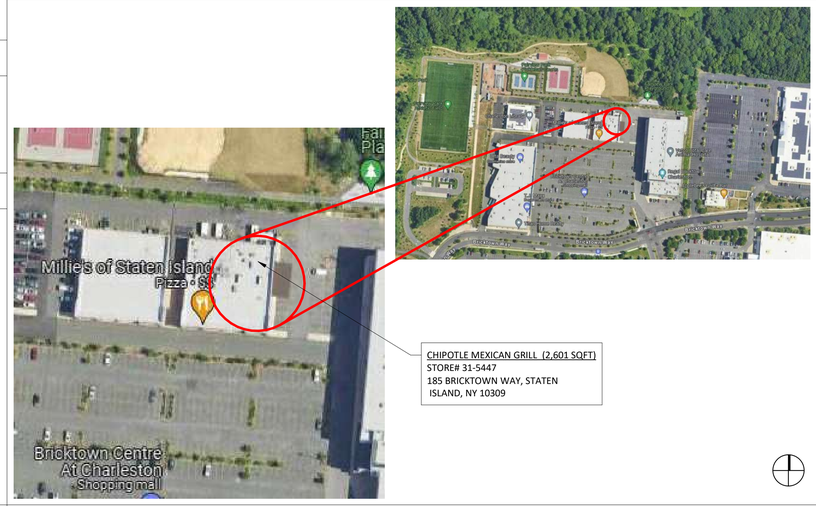
185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

SCOPE OF WORK

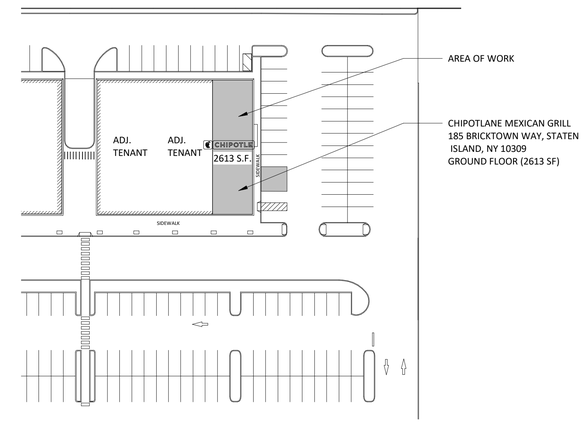
TENANT INTERIOR ALTERATION TO AN EXISTING BUILDING FOR A CHIPOTLE RESTAURANT

GROUP	TENANT	USE
PREVIOUS USE:	DADDYS O'S	A-2
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	B (BUSINESS)

VICINITY MAP



KEY PLAN



TRUE PLAN — 2 / T000 — **KEY SITE PLAN** 1" = 120'-0"

DRAWING INDEX AND REVISIONS

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COVER SHEET																
T000	COVER SHEET															
GENERAL																
G001	PROJECT DATA & LIFE SAFETY PLAN															
G002	ACCESSIBILITY REQUIREMENTS															
G010	ARCHITECTURAL SPECIFICATIONS															
G011	ARCHITECTURAL SPECIFICATIONS															
G012	ARCHITECTURAL SPECIFICATIONS															
G013	ARCHITECTURAL SPECIFICATIONS															
G014	ARCHITECTURAL SPECIFICATIONS															
G015	ARCHITECTURAL SPECIFICATIONS															
G016	ARCHITECTURAL SPECIFICATIONS															
G017	ARCHITECTURAL SPECIFICATIONS															
G018	ARCHITECTURAL SPECIFICATIONS															
ARCHITECTURAL																
A101	SLAB WORK PLAN															
A110	ARCHITECTURAL FLOOR PLAN															
A120	FINISH PLAN															
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A131	EQUIPMENT SCHEDULE															
A132	EQUIP. & FURNITURE SCHEDULE															
A201	REFLECTED CEILING PLAN															
A202	DIMENSIONED REFLECTED CEILING PLAN															
A210	CEILING DETAILS															
A211	LIGHTING DETAILS															
A301	EXTERIOR ELEVATIONS															
A406	STRUCTURAL ROOF PLAN & DETAILS															
A501	ARCHITECTURAL WALL TYPES															
A502	INTERIOR SECTIONS & DETAILS															
A601	DOOR & HARDWARE SCHEDULE															
A701	ELEVATIONS - INTERIOR DINING															
A702	ELEVATIONS - INTERIOR KITCHEN															
A710	RESTROOM DETAILS															
A801	FINISH DETAILS															
A802	TILE DETAILS															
EN101	ENERGY COMPLIANCE FORMS															
FIRE PROTECTION																
SP100	FIRE SPRINKLER PLAN - NEW WORK															
SP200	FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM															
SP201	FIRE SPRINKLER NYC NOTES,PLOT PLAN, MISC. NOTES AND DETAILS															
SP202	FEMA MAP															
SPD100	FIRE SPRINKLER PLAN - REMOVAL WORK															
HVAC																
EN100	ENERGY COMPLIANCE FORMS															
M010	HVAC SPECIFICATIONS, SYMBOLS & GENERAL INFORMATION															
M100	HVAC PLAN															
M401	CAPTIVEAIRE DRAWINGS															
M402	CAPTIVEAIRE DRAWINGS															
M403	CAPTIVEAIRE DRAWINGS															
M404	CAPTIVEAIRE DRAWINGS															
M405	CAPTIVEAIRE DRAWINGS															
M406	CAPTIVEAIRE DRAWINGS															
M600	HVAC SCHEDULES															
M700	HVAC DETAILS															
M701	HVAC DETAILS															
PLUMBING																
P010	PLUMBING SPECIFICATIONS															
P100	PLUMBING SUPPLY PLAN															
P102	PLUMBING WASTE & VENT PLAN															
P200	PLUMBING FIXTURE SCHEDULES															
P300	RISER DIAGRAMS															
P400	PLUMBING DETAILS															
P401	PLUMBING DETAILS															
ELECTRICAL																
E010	ELECTRICAL SPECIFICATIONS															
E100	LIGHTING PLAN															
E101	LIGHTING CONTROLS															
E110	POWER PLAN															
E120	HVAC POWER PLAN															
E600	PANEL SCHEDULES															
E700	ELECTRICAL INTERIOR ELEVATIONS															
E710	ELECTRICAL DETAILS															

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
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10/01/2024	PERMIT SET
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12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W. Checked: J.C.C.

Project No. 24026

Contents: COVER SHEET

T000.00

DOB JOB#: S01113212-I1

NYC - DOB GENERAL PROJECT DESCRIPTION

1. THE FOLLOWING PROJECT IS LIMITED TO TENANT IMPROVEMENT WORK WITHIN AN EXISTING SPACE. NO CHANGE OR REDUCTION IN EGRESS CAPACITY IS PROPOSED WITHIN THE SCOPE OF WORK DESCRIBED HEREIN.

NYC - DOB GENERAL CONTRACTOR REQUIREMENTS

1. NYC-DOB SPECIAL INSPECTION REQUIREMENT; A LICENSED NEW YORK STATE INSPECTING PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WILL BE EMPLOYED BY CHIPOTLE MEXICAN GRILL FOR ALL REQUIRED NYC SPECIAL INSPECTIONS. INSPECTING ENGINEER/ARCHITECT MUST BE SCHEDULED AND COORDINATED BY GENERAL CONTRACTOR.
2. G.C. SHALL SUBMIT ALL TECHNICAL REPORT FORMS TO THE NYC-DOB AS COMPLETED AND APPROVED PRIOR TO FINAL PAYMENT OF CONSTRUCTION CONTRACT SUM.
3. G.C. SHALL OBTAIN ALL REQUIRED "EQUIPMENT USE PERMITS" PRIOR TO FINAL PAYMENT OF CONSTRUCTION CONTRACT SUM.
4. G.C. SHALL VERIFY THAT THE "SCHEDULE B" PLUMBING FORM AS SUBMITTED TO THE NYC-DOB BY THE ARCHITECT IS ACCURATE WITH AS-BUILT CONDITIONS PRIOR TO MAKING REQUEST FOR A FINAL PLUMBING INSPECTION. G.C. SHALL NOTIFY ARCHITECT A MINIMUM OF TWO WEEKS PRIOR TO FINAL PLUMBING INSPECTION IF "SCHEDULE B" PLUMBING FORM REQUIRES UPDATING. PLEASE NOTE THAT IF THIS IS NOT COORDINATED IT WILL HOLD UP, GAS SERVICE INSTALLATION AND FINAL OCCUPANCY OF SPACE BY THE TENANT.
5. THE FOLLOWING ARE A LIST OF ANTICIPATED SPECIAL INSPECTIONS THAT WILL BE NECESSARY FOR THIS PROJECT AND WILL BE DEFINED ON THE TECHNICAL REPORT FORMS.

CODE / SECTION	SPECIAL INSPECTIONS AND TESTS
BC 1704.16	MECHANICAL SYSTEMS
BC 1704.27	FIRE RESISTANCE PENETRATIONS AND JOINTS
BC 110.3.4	FIRE RESISTANCE RATED CONSTRUCTION
BC 110.3.5	ENERGY CODE COMPLIANCE
BC 110.5	FINAL - DIRECTIVE 14
(IB3), (IIB3) / (IB4), (IIB4)	HVAC AND SERVICE WATER HEATING EQUIP. / SYS. CONTROLS
(IBS), (IIBS)	HVAC INSULATION AND SEALING

6. G.C. SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL SPECIAL INSPECTIONS REQUIRED FOR ALL PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT. CONTACT CHIPOTLE FOR SPECIAL INSPECTOR CONTACT INFORMATION AT PROJECT START.

NYC - DOB APPLICATIONS TO BE FILED SEPARATELY BY OTHERS

1. EXTERIOR BUILDING SIGNAGE BY SIGN VENDOR
2. ANSUL / FIRE SUPPRESSION SYSTEMS FILED SEPARATELY BY G.C. AT PROJECT CLOSEOUT

NYC - DOT GENERAL CONTRACTOR REQUIREMENTS

GENERAL CONTRACTOR WILL BE REQUIRED TO FILE FOR A "NYC-DOT SIDEWALK BARRICADE PERMIT". UPON RECEIPT OF ISSUED "NYC-DOB SIDEWALK BARRICADE PERMIT", THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VIOLATIONS ISSUED IF REQUIRED AND NOT OBTAINED.

ENERGY CODE STATEMENTS

ENERGY CODE COMPLIANCE STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH NYCECC ENERGY ANALYSIS FOR ENVELOPE.

APPLICABLE BUILDING CODE

BUILDING CODE:	2014 CITY OF NEW YORK BUILDING CODE
MECHANICAL CODE:	2022 CITY OF NEW YORK MECHANICAL CODE
PLUMBING CODE:	2022 CITY OF NEW YORK PLUMBING CODE
ENERGY CODE:	NYC ENERGY CODE 2020
FUEL GAS CODE:	2022 CITY OF NEW YORK FUEL GAS CODE
ELECTRICAL CODE:	NYC ELECTRICAL CODE 2011
FIRE CODE:	2022 CITY OF NEW YORK FIRE CODE
ACCESSIBLITY:	2009 HANDICAP ACCESSIBILITY CODE WITHIN CITY OF NEW YORK BUILDING CODE

CONSTRUCTION TYPE & USE CLASSIFICATION

OCCUPANCY GROUP:	B (BUISNESS)
TYPE OF CONSTRUCTION:	2-B (2 HR PROTECTED)
AREA:	2,601 SF
NUMBER OF STORIES:	1
FIRE SPRINKLER:	PARTIAL/DRAFT CURTAIN

FIRE RESISTANCE RATING REQUIREMENTS

(PER 2014 NYC BUILDING CODE, TABLE 601 AND 6021)

CONSTRUCTION ELEMENT:		REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME:		0	EXISTING TO REMAIN
BEARING WALLS:	EXTERIOR	0	EXISTING TO REMAIN
	INTERIOR	0	EXISTING TO REMAIN
NON BEARING WALLS & PARTITIONS - EXTERIOR:	FIRE SEPARTION DISTANCE < 5'	1 HR	N/A
	FIRE SEPARTION DISTANCE ≥ 5', < 10'	1 HR	N/A
	FIRE SEPARTION DISTANCE ≥ 10',< 30'	0	N/A
	FIRE SEPARTION DISTANCE ≥ 30'	0	EXISTING TO REMAIN
FLOOR CONSTRUCTION		0	EXISTING TO REMAIN
ROOF CONSTRUCTION		0	EXISTING TO REMAIN
ASSOCIATED SECONDARY MEMBERS (ROOF)		0	N/A

OCCUPANT LOAD CALCULATIONS

(PER TABLE 1004.1.1 AND SECTION 1004.7)

SPACE	LEGEND	OCCUPANCY	SF/OCCUPANT	AREA	OCC. LOAD/PROP.
KITCHEN		KITCHEN	1/200 (GROSS)	902 SF	5/9
ORDERING		ASSEMBLY (STANDING)	1/5 (NET)	85 SF	17
FIXED SEAT	(#)	FIXED SEATS	ACTUAL COUNT	-	34
PATIO	(#)	FIXED SEATS	ACTUAL COUNT	-	6
FIXED SEAT		BENCH	1/24"	-	8
OFFICE		OFFICE	1/100 (NET)	42 SF	1
LOCKED STORAGE		LOCKED STORAGE	1/300 (NET)	94 SF	1

TOTAL OCCUPANCY	66 OCCUPANTS
PROPOSED OCCUPANCY	70 OCCUPANTS

TOTAL OCCUPANT LOAD TO BE POSTED: *70 OCC. (MAX OCCUPANCY)*
THE CALCULATED OCCUPANT LOAD IS LESS THAN THE PROPOSED POSTED OCCUPANT LOAD.
ALL LIFE SAFETY AND RESTROOM CALCULATIONS ARE BASED ON THE POSTED OCCUPANT.

SEATING CALCULATIONS

1. PER CODE: 5% OF SEATING REQUIRED TO BE ACCESSIBLE (48 X 0.05 = 2.4 =3) 4 PROVIDED
2. PER CHAPTER 11 ACCESIBILITY: TABLE 1108.2.2.1 TOTAL SEATING CAPACITY BETWEEN 26-50, THE TOTAL REQUIRED ACCESIBLE SEATS = 2, 4 ARE PROVIDED.

TOTAL INTERIOR SEATING COUNT: 42
ACCESSIBLE SEATING REQUIRED : 3
ACCESSIBLE SEATING PROVIDED : 3

TOTAL EXTERIOR SEATING COUNT: 6
ACCESSIBLE SEATING REQUIRED : -
ACCESSIBLE SEATING PROVIDED : 1

EGRESS REQUIREMENTS

PER TABLE 6-1 (1968 NYC BUILDING CODE)

OCCUPANCY	DESIGNATION	MAX TRAVEL DISTANCE	INCHES PER OCCUPANT	UNITH WIDTH	WIDTH PROVIDED
BUSINESS	E	200 (NON - SPRINKLER)	0.2 (PROPOSED 70 OCC.)	14" 70X0.2= 14	DOOR (1) 68" DOOR (2) 34" DOOR (3) 34"

PLUMBING FIXTURES

(PER NYC PLUMBING CODE TABLE 403.1)

OCCUPANCY CLASIFICATION B (RESTAURANTS)

1. WATER CLOSETS = 1/75 MALE 1/75 FEMALE
2. LAVATORIES = MALE/FEMALE 1/200
3. SERVICE SINK = 1

TOTAL OCCUPANTS = 70
70/2 = 35 (35 MALE/35 FEMALE)

PLUMBING FIXTURES REQUIRED/PROVIDED:

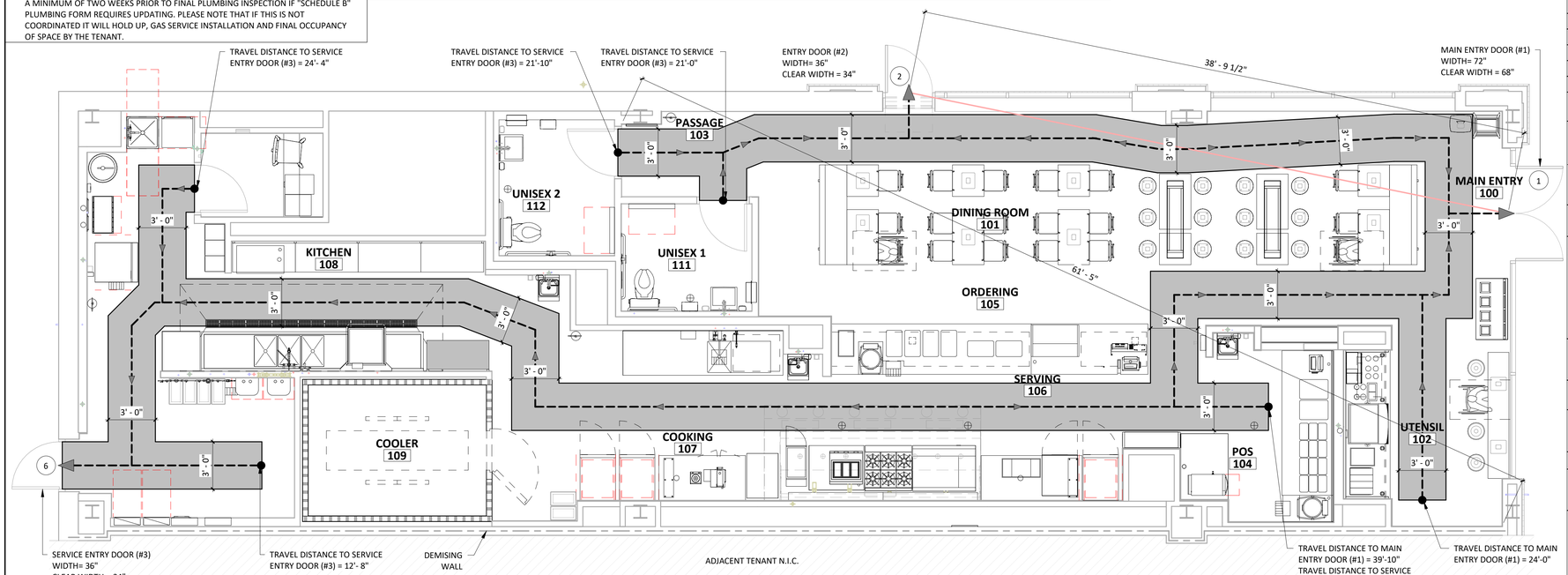
	WATER CLOSETS		LAVORATORIES		URINALS		MOP SINK	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	0	0	1	1
WOMEN'S:	1	1	1	1	0	0		

EGRESS SEPARATION NOTE

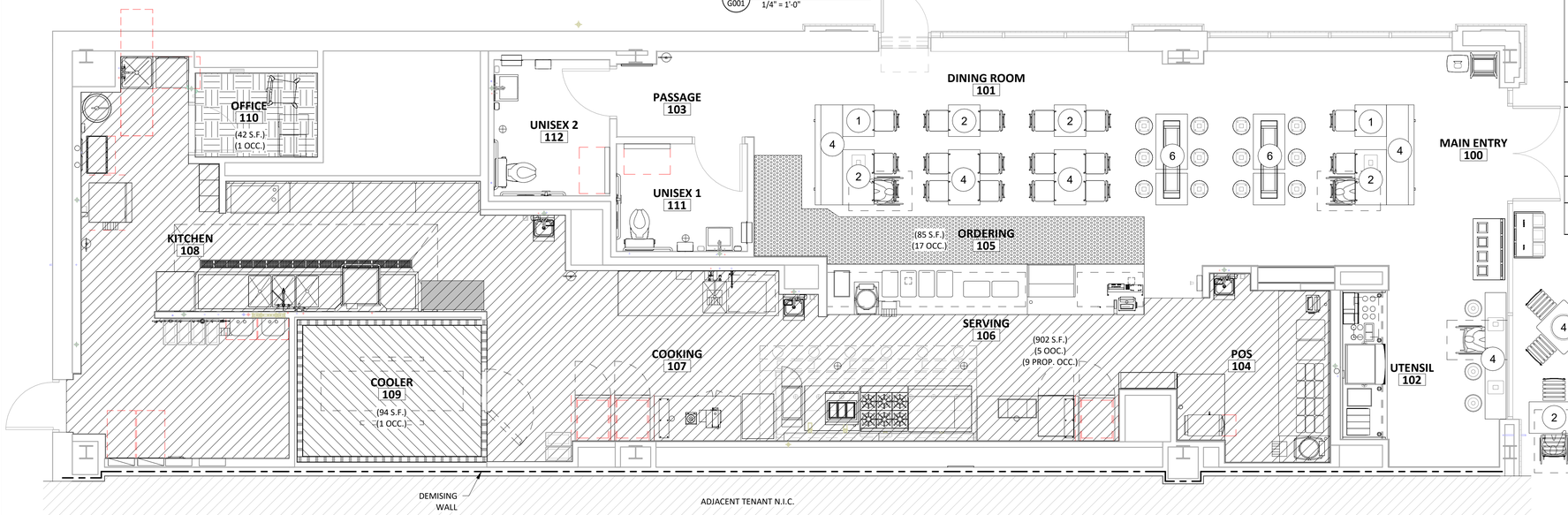
OVERALL DISTANCE:	61' - 5"
REQUIRED SEPARATION:	30' - 8 1/2" (NON-SPRINKLERED)
PROVIDED SEPARATION:	38' - 9 1/2"

FEMA FLOOD MAP STATEMENT

THE BUILDING IS LOCATED IN FLOAD ZONE X (AREA OF MINIMAL FLOOD HAZARD) PER FEMA MAP EXPORTED ON 08/26/2024.



1 G001 **EGRESS PLAN** 1/4" = 1'-0"



2 G001 **OCCUPANCY PLAN** 1/4" = 1'-0"

Consultant:

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Revisions:

Drawn: M.T.W. Checked: J.C.C.

Project No. 24026

Contents:

PROJECT DATA & LIFE SAFETY PLAN

G001.00

DOB JOB#: S01113212-I1

INTERIOR ACCESSIBILITY COMPONENTS

THIS TENANT SPACE IS REQUIRED TO BE ACCESSIBLE AS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT OF 2010 NEW YORK CITY BUILDING CODE. MAINTAIN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE ACT AND ITS ACCESSIBILITY GUIDELINES (A.D.A.), (A.D.A.A.G.).

TABLEWARE AREAS

1. FOOD SERVICE LINES SHALL HAVE A MINIMUM CLEAR WIDTH OF 36" WITH TRAY SLIDES MOUNTED NO HIGHER THAN 34" ABOVE THE FLOOR. IF SELF-SERVICE SHELVES ARE PROVIDED, AT LEAST 50% OF EACH TYPE MUST BE WITHIN REACH RANGES SPECIFIED IN A.D.A.A.G. SECTIONS 4.2.5 AND 4.2.6.
2. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR DISHWARE, CONDIMENTS, FOOD AND BEVERAGES SHALL BE INSTALLED TO COMPLY WITH A.D.A.A.G. SECTION 4.2.



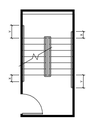
FOOD SERVICE LINES



TABLEWARE AREAS

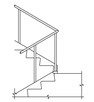
STAIRS

1. ACCESSIBLE STAIRS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.9.
2. ACCESSIBLE STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS ALONG EACH RUN.
3. THE CLEAR SPACE BETWEEN HANDRAILS AND WALL SHALL BE 1-1/2", HANDRAIL GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS. THE TOP OF HANDRAIL GRIPPING SURFACES SHALL BE INSTALLED BETWEEN 34" AND 38" ABOVE STAIR NOSINGS.

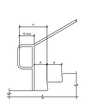


PLAN

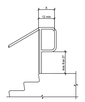
NOTE: "X" IS THE MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER. "Y" IS THE MINIMUM HANDRAIL EXTENSION OF 12 IN PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.



ELEVATION OF CENTER HANDRAIL



EXTENSION AT BOTTOM OF RUN



EXTENSION AT TOP OF RUN

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH A.D.A.A.G. SECTIONS 4.15, 4.16, 4.17, 4.18, 4.19, AND 4.22.
2. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL-HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE FINISH FLOOR. URINALS SHALL HAVE A 30" x 48" CLEAR FLOOR SPACE TO ALLOW A FRONT APPROACH AND THE FLUSH CONTROLS SHALL BE HAND-OPERATED WITH THE CONTROLS INSTALLED NO HIGHER THAN 44" ABOVE FINISH FLOOR.
3. HOT WATER LINES AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
4. EXAMPLES OF ACCESSIBLE FAUCETS INCLUDE: LEVER OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED. IF SELF-CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
5. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE TO PROVIDE EQUIVALENT GRIPPING SURFACE. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2". THE GRAB BAR ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING BENDING STRESSES, SHEAR STRESSES, SHEAR FORCES, AND TENSILE FORCES OF UP TO 250 LBF.. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. MOUNTING HEIGHTS TO OPERATING CONTROLS FOR RESTROOM ACCESSORIES NOT SPECIFICALLY CALLED OUT IN THE A.D.A.A.G. SHALL COMPLY WITH THE REACH RANGES SPECIFIED IN A.D.A.A.G. SECTION 4.2.5..



CLEAR FLOOR SPACE AT WATER CLOSETS



BACK WALL



SIDE WALL

GRAB BARS AT WATER CLOSETS



STANDARD STALL



STANDARD STALL (END OF ROW)

TOILET STALLS



CLEAR FLOOR SPACE AT LAVATORIES



LAVATORY CLEARANCE



FREE-STANDING FOUNTAIN OR COOLER



BUILT-IN FOUNTAIN OR COOLER



CLEAR FLOOR SPACE



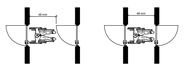
SPOUT HEIGHT AND KNEE CLEARANCE

DRINKING FOUNTAINS AND WATER COOLERS

DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.13.
2. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 3/4" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" IN HEIGHT FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
3. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
4. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70°, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
5. ACCESSIBLE DOORS THAT ARE NOT FIRE DOORS OR EXTERIOR HINGED DOORS SHALL HAVE A MAXIMUM FORCE FOR PUSHING OR PULLING THE DOOR OPEN OF 5 LBF. THIS FORCE DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD A DOOR IN A CLOSED POSITION.

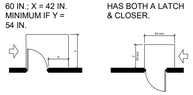
NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



TWO HINGED DOORS IN SERIES

NOTE: X = 36 IN. MINIMUM IF Y = 60 IN.; X = 42 IN. MINIMUM IF Y = 54 IN.

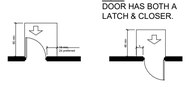
NOTE: Y = 48 IN. MINIMUM IF DOOR HAS BOTH A LATCH & CLOSER.



HINGE SIDE APPROACHES - SWINGING DOORS

CLEAR DOORWAY WIDTH

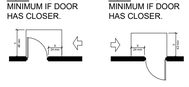
NOTE: X = 12 IN. IF DOOR HAS BOTH A LATCH & CLOSER.



FRONT APPROACH - SWINGING DOORS

NOTE: Y = 54 IN. MINIMUM IF DOOR HAS CLOSER.

NOTE: Y = 48 IN. MINIMUM IF DOOR HAS CLOSER.



LATCH SIDE APPROACHES - SWINGING DOORS

PATH OF TRAVEL

1. ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH A.D.A.A.G. SECTION 4.3.
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.
3. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH 4.8. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50.



MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR



60 IN. DIAMETER SPACE



T-SHAPED SPACE FOR 180° TURNS



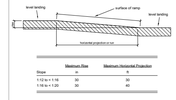
CHANGES IN LEVEL



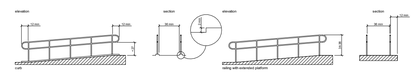
CHANGES IN LEVEL

RAMPS

1. ACCESSIBLE RAMPS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.8.
2. IF A RAMP HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ADJACENT TO ASSEMBLY SEATING AREAS. CLEAR SPACE BETWEEN A HANDRAIL AND AN ADJACENT WALL SHALL BE 1-1/2".
3. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.



COMPONENTS OF A SINGLE RAMP RUN AND SINGLE RAMP DIMENSIONS



EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS

CONTROLS

1. CONTROLS & OPERATING MECHANISMS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.27.
2. ALL CONTROLS & OPERATING MECHANISMS WHICH ARE INTENDED FOR NORMAL USE BY BUILDING OCCUPANTS SHALL BE PROVIDED WITH A.D.A.A.G.-COMPLIANT CLEAR FLOOR SPACES & SHALL BE PLACED WITHIN 1" OF THE REQUIRED FORWARD OR SIDE APPROACH REACH RANGES (48" A.F.F. = FORWARD - 54" A.F.F. = SIDE APPROACH)

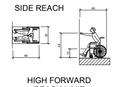


CLEAR FLOOR SPACE PARALLEL APPROACH SIDE REACH



HIGH AND LOW SIDE REACH LIMITS SIDE REACH

SIDE REACH



HIGH FORWARD REACH LIMIT FORWARD REACH

SIGNAGE

1. ACCESSIBLE SIGNAGE SHALL COMPLY WITH A.D.A.A.G. SECTION 4.30.
2. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
3. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE X. LOWER CASE CHARACTERS ARE PERMITTED. SIGNS INSTALLED OVER 80" ABOVE FINISHED FLOOR SHALL HAVE A MINIMUM CHARACTER HEIGHT OF 3".
4. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER-CASE SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
6. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE-LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



NEW SYMBOL OF ACCESSIBILITY NEW YORK STATE LAW A.8193/S.6846 EFFECTIVE NOVEMBER 25, 2014



DISPLAY OPTIONS - DYNAMIC SYMBOL OF ACCESSIBILITY

TABLE SEATING

1. WHERE FIXED TABLES (OR DINING COUNTERS WHERE FOOD IS CONSUMED BUT THERE IS NO SERVICE) ARE PROVIDED, AT LEAST 5%, BUT NOT LESS THAN ONE, OF THE FIXED TABLES (OR A PORTION OF THE DINING COUNTER) SHALL BE ACCESSIBLE AND SHALL COMPLY WITH A.D.A.A.G. SECTION 4.32.
2. IN ESTABLISHMENTS WHERE SEPARATE AREAS ARE DESIGNATED FOR SMOKING AND NON-SMOKING PATRONS, THE NUMBER OF ACCESSIBLE FIXED TABLES (OR COUNTERS) SHALL BE PROPORTIONALLY DISTRIBUTED BETWEEN THE SMOKING AND NON-SMOKING AREAS.
3. WHERE FOOD OR DRINK IS SERVED AT COUNTERS EXCEEDING 34" IN HEIGHT FOR CONSUMPTION BY CUSTOMERS SEATED ON STOOLS OR STANDING AT THE COUNTER, A PORTION OF THE MAIN COUNTER WHICH IS 60" IN LENGTH MINIMUM SHALL BE PROVIDED IN COMPLIANCE WITH A.D.A.A.G. SECTION 4.32 OR SERVICE SHALL BE AVAILABLE AT ACCESSIBLE TABLES WITHIN THE SAME AREA.
4. AT LEAST 5% OF ALL TABLE SEATING SHALL BE ACCESSIBLE PER THE REQUIREMENTS OF A.D.A.A.G. SECTION 4.32.
5. ACCESSIBLE SEATING AT TABLES AND/OR COUNTERS SHALL CONSIST OF THE FOLLOWING DIMENSIONAL CRITERIA: KNEE CLEARANCE SHALL BE 27" HIGH, 30" WIDE, AND 19" DEEP; TABLE HEIGHT SHALL BE 28" TO 34".

MINIMUM CLEARANCES FOR SEATING AND TABLES

CONTROLS

90° TURN



NOTE: DIMENSIONS SHOWN APPLY WHEN X < 48 IN.

TURN AROUND AN OBSTRUCTION



WALKING PARALLEL TO A WALL

ADDITIONAL ACCESSIBILITY COMPONENTS

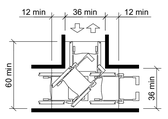
IN ADDITION TO ALL 2010 ADA STANDARD REQUIREMENTS, THIS FACILITY SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR ACCESSIBILITY AS LISTED BELOW AND SHALL MEET ALL REQUIREMENTS OF BARRIER FREE SUBCODE (CHAPTER 11 of IBC-2015 & ICC/ANSI A117.1-2009)

* WHERE INFORMATION LISTED/SHOWN IN THIS SECTION CONFLICTS WITH THE 2010 ADA STANDARD INTERIOR ACCESSIBILITY COMPONENTS, THE MORE RESTRICTIVE OF THE TWO REQUIREMENTS SHALL BE FOLLOWED.

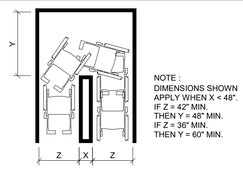
PATH OF TRAVEL

ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.
2. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH 405. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48.



T-SHAPED SPACE FOR 180° TURNS



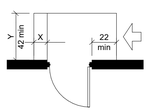
NOTE : DIMENSIONS SHOWN APPLY WHEN X < 48". IF Z = 42" MIN. THEN Y = 48" MIN. IF Z = 36" MIN. THEN Y = 60" MIN.

TURN AROUND AN OBSTRUCTION

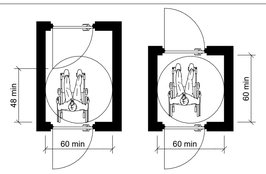
DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009
2. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
3. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR AND NOT LOWER THAN 34" ABOVE FINISH FLOOR.
4. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO AN OPEN POSITION OF 12°.

NOTE : Y = 48" MIN. AND X = 12" MIN. IF BOTH CLOSER & LATCH PROVIDED



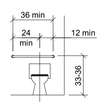
HINGE SIDE APPROACHES SWINGING DOORS



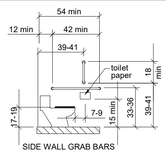
TWO HINGED DOORS IN SERIES

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009



REAR WALL GRAB BARS



SIDE WALL GRAB BARS

SIGNAGE

ACCESSIBLE SIGNAGE SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009

1. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO SUCH THAT THE WIDTH OF AN UPPERCASE 'O' SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF AN UPPERCASE 'I'.
2. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE I. LOWER CASE CHARACTERS ARE PERMITTED. SIGNS INSTALLED OVER 120" ABOVE FINISHED FLOOR SHALL HAVE A MINIMUM CHARACTER HEIGHT OF 3".
3. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE-LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE BOTTOM OF HIGHEST LINE OF TEXT. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MINIMUM BY 18" MINIMUM CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSTITION AND 45 DEGREE OPEN POSITION.

Consultant:

HBC

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Issue Record:

08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
	BID SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W. Checked: J.C.C.

Project No. 24026

Contents:

ACCESSIBILITY REQUIREMENTS

G002.00

DOB JOB#: S01113212-I1

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Tenant's office for copies of these documents:
   1. Chipotle Instructions to Bidders.
   2. Construction Contract for Chipotle Mexican Grill.

B. Definitions:
   1. The term "Owner" used in these documents refers to the building Owner/Landlord.
   2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
   3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Chipotle Mexican Grill.

1.2 Scope of Work:

A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.

B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.

B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
   1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
   2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.

C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.

D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
   1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.

E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.

F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing shown for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
   1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
   2. Coordinate locations of registers, fixtures and outlets with finish elements.

H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.

I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).

Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWF format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later that five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.

B. Comply with local, state and federal requirements governing accessibility.

C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.

B. Comply with manufacturer's instructions and applicable trade standards.

C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
   1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.

D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.

E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.

F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.

B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
   1. Test concrete in accordance with Section 03300 and drawing requirements.
   2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.

B. Temporary Heating, Ventilating and Cooling:
   1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
   2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
   3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.

C. Temporary Electrical Lighting and Power:
   1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
   2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.

D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.

F. Barriers and Enclosures:
   1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
   2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.

G. Field Office, Telephone and Email:
   1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
   2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
   3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
   4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security
   1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
   2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
   3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning
   1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
      a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.
   2. Dust Control:
      a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
      b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
      c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.

B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions:" Substitutions will be considered only under the following conditions:
   1. The indicated "Standard" cannot be provided within the Contract Time
   2. The indicated "Standard" cannot receive necessary approval by the governing authority.
   3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.

D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.

E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

A. Preparation:
   1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
   2. Maintain protected access at all times.
   3. Erect and maintain weatherproof closures at exterior openings.
   4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
   5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
   6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
   7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
   8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.

B. Selective Demolition
   1. Remove existing construction to accommodate new construction as indicated.
   2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
   3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

A. Final Cleaning: Perform final cleaning upon completion of project work.
   1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
   2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
   3. Remove temporary protection and labels not required to remain.
   4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
      a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
      b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
      c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
   5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
   6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
   7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
   1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
   2. Provide a table of contents with each product or system description identified.
   3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
   4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
      a. Significant design criteria.
      b. List of equipment.
      c. Parts list for each component.
      d. Operating instructions.
      e. Maintenance instructions for each equipment item and systems.
      f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
   5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:
   1. Prepare and maintain on site one set of the following record/as built documents:
      a. Contract Documents.
      b. Construction Documents.
      c. Change orders and other modifications to the Contract.
      d. Shop drawings, product data, and samples.
      e. Construction schedule.
   2. Store record/as built documents separate from documents used for construction.
   3. Record actual revisions to the Work, concurrently with construction progress.
   4. Legibly mark and record a description of actual products installed at each specification section, including the following:
      a. Manufacturer's name and product model and number.
      b. Approved product substitutions or alternates utilized.
      c. Changes made by addenda, change orders, and other modifications.
   5. Legibly mark each item to record actual construction, including the following:
      a. Measured depths of foundations in relation to finish first main floor datum.
      b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
      c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
      d. Field changes of dimension and detail.
      e. Details not on original Contract Document drawings.
   6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:
   1. Compile warranties and bonds required by the Contract Documents.
   2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:
   1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
   2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

2.1 Materials:

A. Stencils for pavement markings: Pavement Stencil Comapny, P: (800) 250-5547, stencils@pavementstencil.com

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
   2. ACI 301 "Structural Concrete for Buildings."
   3. ACI 305R "Recommended Practice for Hot Weather Concreting."
   4. ACI 306R "Recommended Practice for Cold Weather Concreting."
   5. ACI 315 "Details and Detailing of Concrete Reinforcement."
   6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
   1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
   2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:
   1. Portland Cement: ASTM C150, Type I
   2. Aggregate: ASTM C33.
   3. Water: Clean and potable.
   4. Reinforcement: When required, comply with drawings reinforcement requirements.
   5. Compressive Strength: Minimum 3000 psi at 28 days.
   6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

C. Topping Concrete: When required to suit installation conditions, Ardex Diama-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
   1. ULTRAFLOR ARDEX DIAMA-TOP, self-leveling concrete repair material.
   2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
   3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
   4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

A. Vapor Retarder: Place, protect and repair vapor retarder sheets in accordance with ASTM E1643 and manufacturer's installation instructions.
   1. Provide a single layer of vapor retarder material over level compacted slab base.
   2. Lap joints and seams 6 inches and seal with seam tape.
   3. Seal all penetrations and repair damaged areas before concrete placement.

B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:
   1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
   2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.
   1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
   2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

E. Testing: When required, comply with drawings and specification sections testing requirements.

F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
B. Alternate Flooring Options as approved by CMG DM: AIFlooring TerraQuartz (color: salt & pepper) -or- AIFlooring TerraSeal (color: medium grey)

1.3 Quality Assurance:

A. Qualifications:
   1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
      a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
      b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
   2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.

B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.

C. Pre-installation Testing: Conduct pre-installation testing as follows:
   1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
   2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.

B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
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Issue Record:

08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
	BID SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 24026

Contents:

ARCHITECTURAL SPECIFICATIONS

G010.00

DOB JOB#: S01113212-I1

2.1 Materials:

A. Resinous Flooring: Manufacturer: aiflooring
   1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627

2.1 Flooring System:

A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.
   1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.
   2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.
   3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.

3.1 Manufacturer's Instructions:

A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.

3.2 Examination:

A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
   1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.

3.3. Preparation:

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

B. Surface Preparation:
   1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.
   2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.
   3. Prepare and clean control joints well and fill with an appropriate elastomeric.

3.4 Installation:

A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.
   1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.
   2. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.
   3. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.

B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.5 Protection:

A. Protection: Protect installed product and finish surfaces from damage during construction.

SECTION 03395 - CONCRETE SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.

A. Standards
   1. American Society for Testing and Materials:
      a. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
      b. ASTM G23-81, Ultraviolet Light & Water Spray
      c. ASTMC805, Impact Strength
   2. American Concrete Institute
      a. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

B. Submittals: Provide the following:
   1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.
   2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.
   3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.
   4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.

C. Quality Assurance:
   1. Installer Qualifications:
      a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
      b. The special concrete finish manufacturer shall certify the applicator.
      c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.
      d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.
   2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.

D. Project Conditions:
   1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.
      a. Concrete must have an average Floor Flatness rating of at least 40.
      b. Concrete must have an average Floor Levelness rating of at least 40.
      c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.
      d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.
   2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.
   3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.
   4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

2.1 Materials

A. Hardening/ Sealing Agent
   1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com
   2. RetroGuard Stain Inhibitor
   3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.
   4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.
   5. Coefficient of friction for Retroguard finish shall not be lower than .40.
   6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

3.1 Installation

A. Surface Conditions
   1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
   2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
   3. Prior to application, verify that floor surfaces are free of construction latents.

B. Application
The following RetroPlate process will be followed as listed below:
A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:
   1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.
   2. Clean the floor using automatic scrubber or comparable.
   3. Grind floor using 200 grit resin diamonds.
   4. Clean the floor using automatic scrubber or comparable.
   5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.
   6. Grind floor using 400 grit resin diamonds.
   7. Clean the floor using automatic scrubber or comparable.
   8. Clean and remove any excess RetroPlate. Let the floor dry overnight.
   9. Continue the polishing process using 800 grit resin diamonds.
   10. Clean the floor using automatic scrubber or comparable.
   11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.
   12. Clean the floor using automatic scrubber or comparable.
   13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.
   14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.
   15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.

C. Start any of the floor finish applications in presence of manufacturer's technical representative.

D. Sealing, Hardening and Polishing of Concrete Surface
   1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
   2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
   3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
   4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
   5. Polish to a level 2 shine.

E. Workmanship and Cleaning
   1. The premises shall be kept clean and free of debris at all times.
   2. Remove spatter from adjoining surfaces, as necessary.
   3. Repair damages to surface caused by cleaning operations.
   4. Remove debris from jobsite
      a. Dispose of materials in separate, closed containers in accordance with local regulations.

DIVISION 4 - MASONRY

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."
   2. NCMA "TEK Bulletins."
   3. BIA "Technical Notes on Brick Construction."

2.1 Materials:

A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.
   1. ASTM C 90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.
   2. Provide special shapes where required.
   3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.
      a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix ".

B. Face Brick:
   1. Manufacturer:
      a. Endicott, (402) 729-3315, www.endicott.com (Iron Spot Brick), or as approved by architect
      b. Belden Brick Company, (330) 451-2031, www.beldenbrick.com (White Brick), or as approved by architect
   2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.
   3. Size: Modular size, laying three courses to 8" vertically.
   4. Color: "Alaska White Velodur" or "Manganese Ironspot, Velour" as noted on Exterior Elevations
   5. Provide special shapes where required.

C. Mortar Materials:
   1. Portland cement: ASTM C150, Type I or III, natural color.
   2. Masonry cement: ASTM C91, Type indicated, natural color.
   3. Aggregate: ASTM C144, clean masonry sand.
   4. Water: Clean, fresh and potable.
   5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.
      a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".

D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.
   1. Face brick: Type N mortar.
   2. Dye:
      a. SGS #60A "White" by Solomon Grind Services (White)
      b. SM #750 "Silverstone" by Spec Mix (Iron Spot)

E. Reinforced Unit Masonry Grout Mixes
   1. Concrete fill: ASTM C94 3,000 psi concrete.

F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
   1. Manufacturer: Hohman & Barnard, INC.
   2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
      a. Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
   3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
      a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
      b. CMU to structural steel: H&B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
   4. Masonry Veneer To Woof Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
      a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
   5. Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-213S with HB-213 (T-Lok Tie)
      a. Fasteners: Seld-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
   1. Termination Mastic: W.R. Grace "Bituthene Mastic."
   2. Primer: W.R. Grace "Bituthene P-300 Primer."
   3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

H. Accessories
   1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
   2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.
   3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.
   4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
   5. Cleaning agents:
      a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."
      b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."
   6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

3.1 Installation

A. Preparation
   1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
   2. Lay concrete masonry units dry.
   3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed
   4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.

B. Installation - General:
   1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
   2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
   3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.

C. Laying Masonry
   1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
   2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
   3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
   4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
   5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
   6. Compress and cut joints flush for masonry walls below grade or covered by other materials.
   7. Tool joints in all exposed masonry work to a concave joint.
   8. Provide interlocking masonry bond in each course at corners and intersecting walls.
   9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
      a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
      b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
      c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
      d. Install anchors, plates and related work built into masonry work.
      e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
   10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
      a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
      b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
      c. Fully embed side rods in mortar.
   11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.
   12. Provide vertical expansion, control and isolation joints in masonry where indicated.
      a. When not indicated, at maximum 30'-0" on center.
      b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.
      c. Joint sealant color shall match masonry materials sealed.
   13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
   14. Flashing and weeps:
      a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
      b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
      c. Flexible Membrane Flashing:
         1.) Install membrane flashing in accordance with manufacturer's installation instructions.
         2.) Fully adhere flashing to substrate.
         3.) Lap flashing joints a minimum of 6", seal and roll with a hand roller.
         4.) Trim bottom edge 1/4" back from exposed face of masonry.
         5.) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
   15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
   16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

D. Masonry Veneer Walls:
   1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
   2. Space ties 16" on center vertically and horizontally.
   3. Maintain veneer wall cavity free of mortar droppings during masonry installation.

E. Parging:
   1. Dampen masonry walls prior to parging.
   2. Scarify each parging coat to ensure full bond to subsequent coat.
   3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
   4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
   1. Draw ACMU from more than one pallet at a time during installation.

G. Reinforced Concrete Masonry
   1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
      a. Comply with drawing details for reinforcing steel size and spacing.
   2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

H. Repair, Pointing and Cleaning
   1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
   2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
   3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
   4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
   5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
   6. Muriatic acid cleaning of masonry not permitted.

I. Architectural Concrete Masonry:
   1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
   2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
   3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
   2. AISC "Code of Standard Practice."
   3. AWS "Structural Welding Code, D1.1-Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.

C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.

D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.

E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.

F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
   1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
   2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.
   3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

3.1 Installation:

A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
   1. Plumb, level and align base plates for structural members with steel shims.
   2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.

B. Testing: When required, comply with drawings testing requirements.

SECTION 05400 - COLD-FORMED METAL FRAMING

1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISI SG02.2-01 "Design of Cold-Formed Steel Structural Members."
   2. AWS "Structural Welding Codes, D1.3-Sheet Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
   1. Components: Provide sizes and shapes indicated.
   2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.

C. Fabrication:
   1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
      a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
   2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
   3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
   4. Saw cut field cut framing. Torch cutting not acceptable.

3.1. Installation:

A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.

B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

A. Submit shop drawings for the following:
   1. Patio Rail systems.
      a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
      b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

A. Materials compliance: When requested, submit acceptable data documenting materials compliance.

B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.

C. Stainless Steel:
   1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.

D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
   1. Wall: Bright reflective finish.
   2. Floor: Mil finish.

E. Patio Railing System
   1. Submit shop drawings including the following:
      a. Show thickness, size, construction and welding, as well as assembly drawings.
      b. Show true profiles, connections of all typical joint configurations
      c. Show installation (fastening) and proposed grout (non-gypsum base)
      d. Show gate detail and gate hardware manufacturer and model number
      e. Patio railing plan, with dimensions and panel assembly locations.
   2. Fabrication
      a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
      b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
      c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
      d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
      e. All corners and joints shall be seal welded and outside joints ground smooth.
      f. All welding spatter shall be removed before sand blasting.
   3. Finish
      a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.

F. Exposed Fasteners:
   1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.
   2. Patio Railing:
      a. All fasteners shall be stainless steel and powder coated to match railing sections.
      b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09900 - Paints and Coatings

Consultant:

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ARCHITECTURAL SPECIFICATIONS

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3.1 Installation: Comply with the Architectural Drawing details and the following:

A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.

B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.

C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
2. Railing posts shall be grouted in using non gypsum quick set grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.

E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NF&PA NDS-97 "Wood Construction and Supplement."
5. AWPA "Wood Treatment Standards."

2.1 Materials:

A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
a. Provide preservative treated lumber, where indicated.

B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXP1.
a. Provide Exterior Grade (EXT) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.

C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.2 Wood Treatment:

A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.

C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation:

A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."

B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.

C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials:

A. Plywood: AWI Section 200
1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM)
2. Exposed to view finishes:
Random plank matched or slip and swing matched spalted maple veneer on 3/4" baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 95".

B. Millwork: Materials and construction as detailed on the Drawings.

C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.

D. Finish:
Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer

3.1 Installation

A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation.
3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines:
a. Nailer to be set for countersunk head approximately 1/8" on the face.
b. Use 16 ga straight finish nails in 2" length
c. Provide "dab" of construction adhesive on backside of panels at regular intervals.
d. Random placement preferred, do NOT group nails together.
e. No nails closer than 2" from any edge.
f. All nails to be no greater than 16-18" apart in any direction.
4. Touch-up shop finished materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".

B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials:

A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com

B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Inside Corner - M350
b. Outside Corner - M360
c. Division - M365
d. Edge - M370
2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation.
3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Edge - M370
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

3.1 Installation

A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials:

A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com
1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated.

B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
1. Type: Owens Corning " Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated

C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.
1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation:

A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement

C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unsplced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

SECTION 07240 -EXTERIOR INSULATION AND FINISH SYSTEM (PB)

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.86, 105.01, 200.02.
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."

B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.

C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials

A. Manufacturer: STO Corp., P: (800) 221-2397, internet www.stocorp.com
Strategic Accounts Manager: Ray Redmond, P: (616) 437-2230, rredmond@stocorp.com

B. Exterior insulation and finish system: Sto Class PB "StoTherm ci" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto RapidGuard for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold Coat: Waterproof Fluid Applied Air/Moisture Barrier
2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft^3 expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.

C. Portland cement: ASTM C150, Type I or II, white or gray in color.

D. Water: Clean, potable and free of foreign matter.

E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd^2 fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd^2 ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd^2 flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd^2 pre-creased, heavy-duty, glass fiber fabric.

F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.

G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to a uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.

4.1 Installation

A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.

B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:
1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.

D. Base coat and reinforcing mesh application:
1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS.
2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry.
3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.

E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.

F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.

SECTION 07250 - WEATHER BARRIERS

1.1 Section Includes

A. Weather barrier membrane
B. Seam Tape
C. Flashing
D. Fasteners

1.2 References

A. ASTM International
1. ASTM C920; Standard Specification for Elastomeric Joint Sealants
2. ASTM C1193; Standard Guide for Use of Joint Sealants
3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
6. ASTM E96; Test Method for Water Vapor Transmission of Materials
7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
8. ASTM E2178; Test Method for Air Permeance of Building Materials

B. AATCC - American Association of Textile Chemists and Colorists
1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

C. TAPPI
1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
2. Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 Quality Assurance

A. Qualifications
1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

1.4 Delivery, Storage and Handling

A. Refer to Section 01400 Quality Requirements.
B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Store weather barrier materials as recommended by weather barrier manufacturer.

1.5 Scheduling

A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
B. Schedule installation of weather barrier materials and exterior cladding within 9 months of weather barrier assembly installation.

2.1 Manufacturer

A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.44TYVEK (8-9835); http://constructiontyvek.com

2.2 Materials

A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.

B. Performance Characteristics:
1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410.
5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

2.3 Accessories

A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.

C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 665
f. Adhesives recommended by the weather barrier manufacturer.

D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sta' Put SPH
f. Primers recommended by the flashing manufacturer.

E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

3.1 Examination
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 Installation - Weather Barrier
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
B Install weather barrier prior to installation of windows and doors.
C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
F. Window and Door Openings: Extend weather barrier completely over openings.
G. Overlap weather barrier
1. Exterior corners: minimum 12 inches.
2. Seams: minimum 6 inches.
H. Weather barrier Attachment:
1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier mfr recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches o.c., when coordinated on the project site.
I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

3.3 Seaming

A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 Opening Preparation (for use with non-flanged windows - all cladding types)

A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

3.5 Flashing (for use with non-flanged windows - all cladding types)

A. Cut 9-inch wide DuPont FlexWrap a min of 12 inches longer than width of sill rough opening. Apply primer as required by mfr.
B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs.
C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing min 2 inches.
F. Coordinate flashing with window installation.
G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head. leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
I. Tape top of window in accordance with manufacturer recommendations.
J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

3.6 Protection
A. Protect installed weather barrier from damage.

Consultant:

HBC
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ARCHITECTURAL SPECIFICATIONS

G012.00

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NOT USED

SECTION 07512 - ROOFING SYSTEM REPAIR

1.1 General: When penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repair.

A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.

B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials:

A. Provide and install only materials approved by the existing roofing system manufacturer for repairing the existing roofing system.

3.1 Installation:

A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.

B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.

C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

ROOFING REPAIR SPEC, USE FOR PROJECTS WITH LL CONSTRUCTED SHELLS

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
3. NRCA "Single-Ply Roofing Membrane."
4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
2. Provide special protection on completed roofing work.
3. Protect paving and structure walls adjacent to hoists before starting work.
4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty
1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

NOT USED

A. Manufacturer: Duro-Last Roofing, Inc., (800) 248-0280, Mike Sutton, www.duro-last.com
1. Basis of Design Product Roofing System
a. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
b. Thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.

B. Comparable Alternate Roof Manufacturers:
1. Versico Roofing Systems, (480) 528-6923, Jeff Kelly, jeff.kelly@versico.com
a. VersiFlex PVC Adhered System
2. Other comparable alternates can be considered when approved by Arch PM and Chipotle DM/CM.

C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2 " thickness.
2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
a. Provide a double layer installation. Minimum total R-value as indicated on plans.
b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

3.1 Installation

A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.

B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
2. Roof insulation.
a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
6. Install sheet metal work furnished under section 07600.

SECTION 07600 - FLASHING AND SHEET METAL

General:

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

2.1 Materials:

A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
1. Scuppers: Minimum 16 gage.
2. Coping/Wall caps: Minimum 18 gage.
B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
1. Conductor Boxes: Minimum 0.040"thickness.
2. Downspouts: Minimum 0.025"thickness.
C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipsheet over treated wood.
4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

SECTION 076113 - SHEET METAL WALL PANELS

1.1 General:

A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:

1. Structural steel: Section 05100
2. Steel joists: Section 05200 or 05400
3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC:"Steel Construction Manual" American Institute of Steel Construction.
3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute.
4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume).

B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

NOT USED

1.3 Product Delivery, Storage and Handling

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

A. Metal wall system profile:
1. Shadow Rib: 3 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
B. Metal wall system style:
1. Fluted face
2. Concealed fasteners
C. Gauge: 24 gauge
D. Substrate: Per Plans
E. Texture: Smooth
F. Finish: Premium thermoset silicone polyester (20 year warranty)
G. Color: Polar White, to be painted per Exterior Elevations
H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

3.1 Surface Conditions

A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

3.3 Cleaning, Protection

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

3.4 Field Painting

A. Refer to section 09900 on G017
B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
a. Color pack for polyurethane multi component, gun grade chemically curing sealant.

B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
d. "GE Paintable Silicone" one component paintable silicone.
e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
a. "Dow 795" – one component, medium modulus, natural cure silicone.

C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal

D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.

B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
2. Install joint sealants to a depth no more than ½ the width of the joint.
3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels
2. Base of FRP wall panels to T.O. specified base material.
3. Walk in cooler walls to FRP wall panels.
4. Stainless closure pieces at cooler walls to FRP wall panels.
5. FRP/stainless corner guards to FRP wall panels.
6. Ceiling tile pipe penetrations.
7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
8. Mop sink stainless surround perimeter to walls.
9. FRP closure panel, at top of cooler, to cooler walls.
10. FRP wall panels to hollow metal door frames.
11. Coke line bundle to PVC cap.
12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
13. Battery backup cover panel to FRP.
14. Faucet's to FRP wall panels.
15. FRP wall panels to quarry tile cove base.
16. FRP to aluminum plate at walk thru.
17. Menu board light bracket to ceiling.
18. Mop sink base at quarry tile.
19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
20. Paper towel dispensers & soap dispensers to FRP/tile walls.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
3. Diamond plate panel seam joints.
4. Diamond plate perimeter to cooler walls.
5. Base of diamond plate to quarry tile cove base.
6. Stainless closure panel, at top of cooler walls, to cooler walls.
7. Top of quarry tile cove base to cooler walls at inside of cooler.
8. Cooler wall/diamond plate penetrations.
9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
10. Stainless wrap at hollow metal door frame.
11. Stainless mop surround to stainless corners on mop sink.
12. Base of stainless corner pieces to schlutter strip at base.
13. Exit door threshold perimeters. To frame and floor, interior and exterior.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels.
2. Perimeter of manager's desk to FRP wall panels.
3. Hollow metal door frame to FRP wall panels.
4. Top and ends of coat hanger bracket to FRP walls.
5. Base of FRP wall panels to quarry tile base.
6. Ceiling tile wire/pipe penetrations.
7. FRP inside corners to FRP wall panels. Both sides of corner piece.
8. Base of FRP wall panels to quarry tile.

- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
1. Base of safe to floor.

C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of wall tile to sheetrock ceiling.
2. Ceiling diffusers perimeters to sheetrock ceiling.
3. Ceiling pipe penetrations.
4. Wall tile to aluminum walk thru surround.
5. Tile wall penetrations/escutcheons perimeters.
6. FRP wall panels to sheetrock ceilings.
7. FRP wall panels to aluminum end wall plates.
8. FRP inside corners to FRP wall panels. Both sides of corner piece.
9. Sink to white wall tile.
10. Paper towel dispenser/soap dispenser to white tile.
11. POS/Serving counter to wall tile.
12. Stainless shelf behind grill to wall tile.
13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Joint between hood and closure skirt.
2. Joint between hood support and hood. Both sides.
3. Connection joint between stainless shelf behind grill.
4. Hood to tile walls & sheetrock ceiling.
5. Hood gusset to wall tile on both sides.
6. Sink to bronze wall tile.
7. Paper towl dispenser/soap dispenser to bronze tile.
8. DML counter to bronze tile.

- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
1. Ceramic tile inside corners.
2. Ceramic tile to aluminum end wall plates.

D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
2. Perimeter of toilets/urinals to floor or FRP.
3. Perimeter of mirror to FRP.
4. Sink to wall.
5. Perimeter of paper towel/garbage unit to wall.
6. Toilet paper/napkin disposals units to walls.
7. Stainless shelf to wall.
8. Wall penetrations under sink and or escutcheons to perimeters.
9. Hollow metal door frames to FRP.
10. Base of FRP wall panels to top of wall base.
11. FRP inside corners to FRP wall panels.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber wall base to floor.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door frames to floor.

E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Wall tile to sheetrock walls.
2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
3. Wainscot wall panels (Stonewood or other) to painted walls.
4. Diffuser/louvers perimeters to sheetrock walls.
5. Hollow metal door frames to painted walls - if needed.
6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
7. Wall tile at serving line wall to POS counter.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Base of garbage surround to floor.

- Provide a continuous bead of Dow 795 silicone at the following locations:
1. Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless countertop to backsplash. Horizontal & vertical joints.
2. Base of Coke machine to countertop.
3. Perimeter of tea drain tray to countertop.
4. Stainless backsplash to white tile walls/painted walls.

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Coke line bundle to PVC cap.

G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
1. Sidewalk/concrete expansion joints.

- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
1. Hollow metal door frames.
2. EIFS to abutting services.
3. Penetrations in EIFS.
4. Face brick or block control joints.
5. Perimeter of Aluminum Storefronts.
*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
- For "Fog" EIFS use Tremco - "Natural White"
- For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
- For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
1. CO2 fill port stainless box.
2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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Contents:

ARCHITECTURAL SPECIFICATIONS

G013.00

DOB JOB#: S01113212-I1

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 General: Tenant to provide steel doors and frames as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
3. SDI 122-99 " Installation for Standard Steel doors and Frames.

B. Manufacturer: A member of the Steel Door Institute (SDI).

2.1 Materials:

A. Steel Doors:
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.

2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
2. Punch frames and factory install rubber door silencers.
3. Provide minimum three anchors of suitable design for each jamb.
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

3.1 Installation:

A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.

B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 General: Provide aluminum entrances and storefronts as shown and specified.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

B. Standards: Materials and construction shall conform to the following:
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3 Summary:

A. Section Includes:
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
a. Types of Kawneer Aluminum Storefront include:
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components
a. Types of Kawneer Aluminum Entrances include:
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
a. YKK
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
2. Air Infiltration:
a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.
b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no defection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
a. Glass to Exterior - 0.47 (low-e)
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
a. Glass to Exterior - 70 frame and 69 glass (low-e)
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

A. Manufacturer: Kawneer Company Inc., Contact: Doug Hess, Phone: 317-771-9265; email:doug.hess@arconic.com

1. Basis-of-Design Product Storefront Framing:
a. Trifab 601T (thermal) Storefront System
i. 2" x 6" System Dimensions
ii. Glass: Exterior (Center-Set)
b. Trifab 451T (thermal) Storefront System
i. 2" x 4-1/2" System Dimensions
ii. Glass: Exterior (Front-Set)

2. Basis-of-Design Product Storefront Entrances:
a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"
b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
c. Glazing gaskets shall be either EPDM elastometric extrusions or a thermoplastic elastomer.
d. Provide adjustable glass jacks to help center the glass in the door opening.

3. Basis-of-Design Product Feature Exterior Slat Wall:
a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom
i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.
1. Architechural Fabrication

B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
1. YKK
a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
2.. Oldcastle
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b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
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b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
5. Wausau
a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

2.2 Materials:

A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.

B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.

E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

A. Glazing: As specified in Section 08800 - Glazing.

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
a. Color: Black
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.

2.6 Accessory Materials:

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
3. Prepare components with internal reinforcement for door hardware.
4. Arrange fasteners and attachments to conceal from view.

C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.9 Aluminum Finishes:

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
a. YKK "Charcoal" UC99477, Superior Painted Finishes
b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
1. Show actual field measurements on shop drawings.
2. Differentiate between shop and field fabrication.
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
4. Include large-scale details of anchorages and connecting elements.
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.

B. Coordinaton: Match dimensions and attachement of formed metal items to adjacent construction. Produce integrated assembles. Closely fit joints; align edges and flat surfaces unless indicated otherwise.

C. Forming: Profiles indicated. Maximize lenghts. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain seperation at bends.

D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.

E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.

F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.
1. Ease exposed edges to small uniform radius.
2. Welded joints.
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M
3. Brass/Bronze Brazed Joints:
a. Perform torch brazing in accordance with AWS C3.4M/C3.4
b. Perform induction brazing in accordance with AWS C3.5M/C3.5
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;
1. Thermal Movements:
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:
1. Form Closures from type and thickness of metal indicated.
2. Conceal fasteners when possible.
3. Drill and tap holes for securing to other surfaces.
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
5. Miter or cope at corners and reinforce with bent metal plate. Form tigh joints.

2.13 Materials

A. Genaral: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.
C. Anchors, Clips, and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvenized to ASTM A123/A123M Coating Grade 35
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
5. Exterior Locations or in contact with Stainless Steel:
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
b. Nuts: Stainless steel; ASTM F594.
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
a. Type: Provide chemical or torque controled expansion anchors.
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

A. Finishes, General: Comply with NAAMM AMP 500-06
1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
2. Protect mechanical finishes on exposed surfaces from damage.
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
B. Galvanized Steel Finishes:
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
2. Color: As shown on the drawings.
3. Factory Prime: Apply shop primer to pepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.

B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.

B. Quality Assurance:
1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

2.1 Materials:

A. Acceptable Manufacturers. Arch PM to verify required manufacturer per Tenant's assignment.
1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: https://www.quikserv.com/
2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: https://www.ready-access.com

B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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Contents:

ARCHITECTURAL SPECIFICATIONS

G014.00

DOB JOB#: S01113212-I1

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. Standard Custom Side Sliding Windows – Arch PM to verify manufacturer with Tenant.

• Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 29-3/4"H
2. Finish: Dark Bronze Anodized
3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
   a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
      i. Heated Air Curtain: Model: QSV1025EI-040-BK
      ii. Ambient Air Curtain: Model: QSK1025AA-BK
5. Refer to interior elevations (A700s) for direction of opening for ordering.

• ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 35"H
2. Finish: Dark Bronze Anodized
3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
   a. Heated Air Curtain: Model: AA300 (replaces transom)
   b. Ambient Air Curtain: Model: AA100 (split transom)
5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
   a. Service Opening:15-1/4"W x 28"H, limited to meet CA code.
   b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
   a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
   b. 'CHIPOTLE' package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.

C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider

1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
   a. Service Opening: 29-1/2"W x 27"H
   b. Rough Opening: 72-1/2"W x 41-1/2"H
   c. Glass: Impact Resistant Glass
   d. 'CHIPOTLE' package includes ambient air curtain
      i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
      ii. Do not mount directly to window, mount on wall above.
   e. Miami-Dade NOA #18-0814.02

2.3 Electrical Requirements

A. Quikserv Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.

1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
   a. Separate 230V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
   a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
   a. Connect to main control board on window to power and synchronize operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.

1. AA300 Heated Air Curtain
   a. Separate 208V /60 hz /40-amp single phase circuit required.
2. AA100 Ambient Air Curtain (Standard and CA window)
   a. Separate 120V / 60hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

A. Install in accordance with manufacturer's instructions.
B. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
C. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
D. Install pass-thru window components weathertight.
E. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
F. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
G. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
H. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
   2. ANSI/BHMA A156 Series Builders Hardware

B. Quality Assurance:
   1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
   2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
   3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
   4. After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.

B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
   1. Top Butts: 5 inches; top of butt from head of frame.
   2. Middle Butts: 3'-2", centerline from finish floor.
   3. Bottom Butts: 5 inches; finish floor to bottom of butt.
   4. Locks: centerline from finish floor per hardware schedule.
   5. Knobs: 3'-2", centerline from finish floor.
   6. Pulls: centerline from finish floor per hardware schedule.
   7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

1.1 General: Provide glass and glazing as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
   2. GANA "Glazing Manual - 1990."

B. Quality Assurance:
   1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
   2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
   3. Installation: Performed only by experienced glaziers.

C. Warranty:
   1. Insulating glass: Five years from date of installation against defects that materially obstruct vision through the glass or affect thermal and physical integrity.

2.1 Materials:

A. Glass:
   1. Float Glass (FG): 1/4" thick clear float glass.
   2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
   3. Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
      a. Low-emissivity coating on #2 surface.
      b. Visible Light Transmittance: 64% - 70%
      c. Visible Light Reflectance - Outdoors: 9%-11%
      d. Solar Energy Transmittance: 32%-34%
      e. Solar Energy Reflactance-Outdoors: 30%-34%
      f. U-Value - Winter Night: 0.29
      g. U-value - Summer days: 0.28
      h. Solar Heat gain Coefficient: 0.25-0.39
      i. Shading Coefficient: 0.43-0.45
      j. Manufacturers/Products:
         i. AGC/Comfort Ti-AC40, or similar to meet code
         ii. Sun Guard/SN-68, or similar to meet code
         iii. PPG/Solarban 60, or similar to meet code
         iv. Viracon/VE1-2M, or similar to meet code
   4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
   5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

B. Glazing Materials:
   1. Glazing Sealants: Provide elastomeric glazing sealants suitable for applications indicated; compatible with one another and with other materials they will contact, complying with ASTM C920.
   2. Glazing Tape: Provide preformed, non-staining and non-migrating elastomeric tape, as recommended by tape and glass manufacturers for application indicated, complying with ASTM C 1281.
   3. Glazing gaskets: Provide manufacturer's standard snap-on aluminum stops and neoprene, vinyl or EPDM glazing gaskets.
   4. Provide setting blocks, spacers and edge blocks of material, size, and shape complying with referenced glazing standard, and compatible with surfaces contacted in installation.

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

A. Preparation:
   1. Field verify measurements and conditions of installation.
   2. Examine all details. Provide proper fitting to details indicated.
   3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.

B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
   1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).

C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.

D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.

E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. GA 214-90 "Levels of Gypsum Board Finish."
   2. GA-216 "Specifications for Application and Finishing of Gypsum Board."
   3. USG "SA923 Drywall/Steel Framed Systems."

2.1 Materials:

A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
   1. Partition metal framing:
      a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
      b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.

C. Ceiling and Soffit metal framing/suspension systems:
   1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
   2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
   3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
   1. General use panels: Sheetrock Regular panels.
   2. Fire rated panels: Sheetrock Firecode Core panels.
   3. Water-resistant: panels: Sheetrock HUMITEK panels.

E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 200B casing bead metal trim, No. 093 Control Joint.

H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.

J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
   1. Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
   2. Wall and partition framing:
      a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
      b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
      c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
      d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
   1. Screw fasten all gypsum board panels.
   2. Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
   3. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

C. Acoustical Treatment:
   1. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
   2. Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
   3. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
   4. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

D. Finishing:
   1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
   2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
   3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
      a. Locations: Typical for all walls and ceilings, unless otherwise indicated
      b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
      c. Embedding and First Coat: Setting-type joint or taping compound.
      d. Fill (Second) Coat: Setting-type topping compound.
      e. Fill (Third) Coat: Setting-type topping compound.
      f. Finish (Fourth) Coat: Skim coat entire surface.

   4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
      a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
   2. ASTM C1002 Standard Specification for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
   3. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
   4. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
   5. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
   6. ASTM E96 Standard Test Methods for Water Vapor Transmision of Materials
   7. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com

B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
   1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufactuer's recommendations:
   1. Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
   2. Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw

D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

A. Install DenShield at all tile walls excluding hood area as indicated on drawings.

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
   1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
      a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
      b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
      c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
      d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
      e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
      f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
      g. Do not use all purpose joint compound or tape in wet areas.
      h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
      i. DensShield Tile Backer should not be used for exterior installations.
      j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
      k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.

C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com
   2. Waterproofing, Setting and Grouting Materials:
      a. Setting and Grouting Materials and Tile Base Membrane: Mapei
         i. For ordering purposes, email all orders to chipotle@daltile.com
         ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com

B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0T03
   1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
   2. Rest Rooms: Provide non-abrasive finish quarry tile.
   3. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
   4. Inside Corner Cove Base: #QB-3565 1" x 5"
   5. Bullnose Coveless Base: #Q-1665, 6" x 6"
   6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
E. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.
F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
   1. Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
   2. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.

B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up vertical wall surfaces minimum 10" high.
   2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.

D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   1. Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
   2. Base: Latex-portland cement mortar on cement board.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic wall tile as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com

B. Ceramic Tile:
   1. Kitchen Tile, or as noted in plans, Series - Finish Line Glazed Ceramic Tile:
      a. Color - White FL90, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
   2. Accent Tile, Series - Color Wheel Glazed Ceramic
      a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
      b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
         i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
         ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

C. Setting Adhesive: Thinset Mortar, Mapei, Ultraflex LFT - Gray

D. Grout:
   1. Kitchen Tile or as noted in plans
      a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
   2. Accent Tile
      a. Mapei, Series - Flexcolor CQ - Chocolate #07, 1/8" grout joints.

3.1 Installation

A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
   1. Protect surrounding work from damage.
   2. Remove any curing compounds or other contaminates.
   3. Vacuum clean surfaces and damp clean.
   4. Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
   5. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

B. Kitchen:
   1. Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   2. Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
   3. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
   4. Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
   5. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
   6. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
   7. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, escess mortar, or excess grout.
   8. Sound tile after setting. Replace hollow sounding units.
   9. Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
   10. Clean tile and grout surfaces.

Consultant:

HBC
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SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice."
2. ASTM C635.
3. ASTM C636.

B. Related Sections:
1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

A. Manufacturer:
1. USG Interiors, Inc., (800) 950-3839, www.usg.com
2. Pittcon Industries, (800) 637-7638, www.pittconindustries.com

B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".

C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
2. Light pocket endcap should only be installed when the end of the cove is not against a wall.

D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
3. Hanger Wire: No. 12 SWG galvanized steel wire.
4. Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.

B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".

C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.

D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.

E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.

F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.

G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

A. Manufacturer: Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
1. Basis-of-Design Product Rubber Wall Base:
a. Resilient Rubber:
1. .125" (3.17 mm) Thickness
2. "Black" color
3. Straight (toeless) or coved as specified on finish plan
4. Inside and outside corners with 4" returns.

B. Alternate Wall Base only when approved by Arch PM and Chipotle DM.
1. Vinyl Wall Base
a. .125" (3.17 mm) Thickness
b. "Black" color
c. Straight (toeless) or coved as specified on finish plan
d. Inside and outside corners with 4" returns.

C. Setting Adhesive
1. For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive
2. For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative

3.1 Installation:

A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

A. Section 05400 - Cold Formed Metal Framing

B. Section 06210 - Finish Carpentry and Millwork

C. Section 07900 - Joint Sealers

D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.

B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.

D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.

B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

A. Manufacturer's Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator:
1. Fabricated by the manufacturer, and/or;
2. Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.

C. Installer
1. Proven professional installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

A. Refer to Section 01400 Quality Requirements.

B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
2. Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
3. Do not store directly on cold concrete floors as moisture may migrate.
4. Do not store under heating units or air conditioning units.
5. Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
6. Reseal plastic wrap if partial load is used.
7. Keep foam dividers in place.

D. Handling:
1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.
3. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

A. Limited Warranty: Fibbers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

A. Fiberesin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814, Web Site: www.stonewoodpanels.com Email: info@fiberesin.com

B. Made in the United States from materials sourced in the USA.

2.2 Application:

A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

A. Material: Solid phenolic laminate panel w/o overlay.
B. Color: Black ND
C. Finish: Matte
D. Standard Size: 48"x96", fabricator to trim height to 47"
E. Panel Thickness: 5/16", 1/2"
F. Panel Core: HR Black

2.4 Minimum Material Properties

A. NEMA Requirements:

Description	NEMA Requirements	
Dimensional Change:	3.11	
Length (Machine Direction)	0.3% Maximum	0.25%
Width (Cross Direction)	0.7% Maximum	0.50%
Density (PCF)	82	

B. Mechanical Properties:

Property	NEMA Requirements	
Flexural Strength ASTM D-790		
MD (psi)	18,000	20,000
CD (psi)	12,000	16,000
Flexural Modulus ASTM D-790		
MD (psi)	1.6x10^6	2.0 x10^6
CD (psi)	1.4x10^6	1.5x10^6
Tensile Modulus ASTM D-638		
MD (psi)	18,000	18,000
CD (psi)	12,000	13,000

C. Fire Resistance:

	Class A (0.250")	Class B (0.250")
Flame Spread Index - ASTM E-84 (BLDG):	5	30
Smoke Developed Values - ASTM E-84 (BLDG):	5	105
Fire Rating (Standard Product is Class B):	A	B

D. Manufacturing Tolerance:

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped Size (Length - Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.5 Accessories (Fasteners):

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
C. Fasteners shall by designed to withstand effects of dead load and accommodate hydrothermal expansion/contraction of panel.
D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

A. Verify correct panels received including dimension, tolerance, color/texture.
B. Verify correct attachment system received for the specific project/job.
C. Verify all the documents including shop drawing and installation guidelines.
D. Verify installation conditions are satisfactory to receive work of this section before the commencement
E. Verify substrate installation is complete, flat, and true to plane.
F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
B. Protect surrounding areas and surfaces to preclude damage during work of this section.
C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
D. Verify locations of joints and panel lengths.

3.4 Installation:

A. Conform to manufacturer's instructions and provisions of shop drawings.
B. Install to allow hydro-thermal expansion/contraction.
C. Use appropriate techniques/tools to work with the panel.
D. Do not force to fit, do not bend, stretch/compress.
E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.
F. Do not install damaged or questionable panels.
G. Install solid phenolic wall panels plumb and level and accurately spaced.
H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
I. Shim or otherwise plumb substrates receiving composite wall panels.
J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

A. Correct identified defects and irregularities.
B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

A. Leave installation clean and free from residue and debris from work of this Section.
B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

SECTION 09900 - PAINTS AND COATINGS

1.1 General: Provide paints and coatings as shown and specified.

A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.

B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.3 Summary:

A. This section includes surface preparation and field painting of the following:
1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.4 Quality Assurance:

A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

1.5 Delivery, Storage and Handling:

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or tile of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).

C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
1. PPG Industries, Inc.
2. Materials - No substitutions allowed.

2.2 Paint Materials, General

A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.

C. Exterior Coatings:

Exterior Ferrous Metals:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils
Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.
Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Prefinished Metal Wall Panels:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat XIM Primer Bond - Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Finish: (2) coats PPG; 90-1110 Series Pitt-Tech Satin DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Galvanized Metal:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Consultant:

HBC
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Contents:

ARCHITECTURAL SPECIFICATIONS

G016.00

DOB JOB#: S01113212-I1

Exterior CMU Primer:

CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler

Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.
Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.
Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.
Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)
Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)
Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:
Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.
Prime: (1) coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)
Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:
(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
Application: Spray

Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:
Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Owner Option 1:
Finish: (1) coat PPG; A-2886B Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

Owner Option 2:
Finish: (1) coat PPG; A-2886B Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.
- Do not heat paint in striping system above 60 C.
- Do not apply when temperatures are below 3 C.
- Do not apply when rain is forecast.
- Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% with acetone and then use immediately.
- Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.

Application Equipment: Apply with a high quality brush, roller, or by airless spray equipment.

Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cause serious injury.
Brush: Polyester/Nylon Brush
Roller: All-purpose nap roller cover.

E. Color Guide: Refer to Finish Plan and drawings for exact location of all colors.

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V51-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-411OXI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:
1. Verify that site environmental conditions are appropriate for application of coatings specified.
2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:
1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
5. For specific substrate preparation, see individual specifications.
6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:
1. General: Mix, prepare and apply paint according to manufacturer's written instructions.
   a. Use applicators and techniques best suited for substrate and type of material being applied.
   b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
   c. Coating surface treatments, and finishes are indicated in the coating system descriptions.
   d. Provide finish coats compatible with primers used.
   e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   a. The number of coats and film thickness required is the same regardless of application method.
   b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.
   c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.
   d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.
   e. Sand lightly and remove dust between coats to achieve required finish.
   f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.
   g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.
   h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:
1. After completing painting, clean glass and paint spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

E. Protection:
1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect / Tenant.

2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.
1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHES

1.1 General: Provide portable fire extinguishers as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.
1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.
2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

A. Install fire extinguishers in accordance with manufacturer's installation instructions, at heights and locations acceptable to the local fire regulations enforcement authority

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. AWS, D1.1 - Structural Welding Code - Steel
2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance
1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.
   a. Submit within 15 days after contract award.
2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. – Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com
B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773
3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310
1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.
2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)
3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5"h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.
4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. Typical wall anchors are minimum ½" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.
5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.
6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".
7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.
8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings
2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:
1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

B. Field measure window openings and verify installation conditions prior to window shade fabrication

C. Warranty:
1. 5 years against defects in materials and workmanship.
2. 1 year for service call repairs and adjustments.

2.1 Materials:

A. Manufacturer: Insolroll Window Shading Systems, Inc. (800) 447-5534, internet www.insolroll.com

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.
1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.
2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.
1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.
2. Roller tube 2" extruded aluminum, sized to minimize deflection.
3. Fabric attached to roller tube using two-sided adhesive tape.
4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

A. Install window shades level and plumb in accordance with manufacturer's installation instructions and drawing details. Provide units securely anchored in place with recommended hardware and accessories to provide smooth operation without binding.

DIVISIONS 13 - 14 - NOT APPLICABLE

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
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Project No. 24026

Contents:

ARCHITECTURAL SPECIFICATIONS

G017.00

DOB JOB#: S01113212-I1

SECTION 093000 - PORCELAIN FLOOR TILE

1.1 General: Provide porcelain tile flooring as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ANSI A137.1 "Ceramic Tile."
2. TCA "Handbook for Ceramic Tile Installation."

1.2 Performance Requirements:

A. Static Coefficient of Friction: Tile on walkway surfaces shall be provided with the following values as determined by testing in conformance with ASTM C 1028.
1. Level Surfaces and Step Treads: Minimum of 0.6 (Wet).
2. Ramp Surfaces: Minimum of 0.8 (Wet).

1.3 Quality Assurance:

A. Installer Qualifications: Company specializing in performing the work in this section with minimum two years' experience.

B. Single Source Responsibility: Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.

1.4 Delivery, Storage, and Handling:

A. Deliver and store products in manufacturer's unopened packaging until ready for installation.

B. Protect adhesives and liquid additives from freezing or overheating in accordance with manufacturer's instructions.

C. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

1.5 Environmental Requirements:

A. Do not install adhesives in an unventilated environment.

B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.

1.6 Extra Materials:

A. Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

2.1 Materials:

A. Manufacturers:
1. Porcelain Tile: Daltile, (877) 556-5728, internet: http://daltile.com
   a. For ordering purposes, email all orders to chipotle@daltile.com
2. Waterproofing:
   a. Setting and Grouting Materials and Tile Base Membrane: Mapei, (800) 992-6273, internet: www.mapei.com

B. Tile:
1. General: Provide tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated. Provide tile in the locations and of the types, colors and pattern indicated on the Drawings. Tile shall also be provided in accordance with the following:
   a. Factory Blending: For tile exhibiting color variations within the acceptable ranges, blend tile in factory and package tile so tile taken from one package shows the same range of colors as those taken from other packages.
   b. Factory Applied Temporary Protective Coatings: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating with a continuous fill of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.
2. Glazed Porcelain Tile: Series: Volume 1.0, Part #: VL7012241P6, Size: 12x24, Color: VL70 Amplify Black, Pattern: As indicated on the Drawings.
   a. Moisture Absorption: Less than .5 percent to less than 20 percent.
   b. Trim Units: Matching bullnose, cove base corner, cove base shapes in sizes coordinated with field tile.
3. Non-Ceramic Trim: Finish as indicated on the Drawings, style and dimensions to suit application, for setting using tile mortar or adhesive; use in the following locations:
   a. Open edges of floor tile.
   b. Transition between floor finishes of different heights and/or materials.
   c. Expansion and control joints, floor and wall.

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray

E. Grout: Mapei, Kerapoxy IEG CQ, Color: #47, "Charcoal", 3/16" grout joints.

F. Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Examination:
1. Verify that wall and sub-floor surfaces are dust-free, and free of substances which would impair bonding of setting materials to sub-floor surfaces, and are smooth and flat with tolerances specified in ANSI A137.1.
2. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
3. Verify that required floor-mounted utilities are in correct location.

B. Preparation:
1. Protect surrounding work from damage.
2. Remove any curing compounds or other contaminates.
3. Vacuum clean surfaces and damp clean.
4. Seal substrate surface cracks with fillers. Level existing substrate surfaces to acceptable flatness tolerances.
5. Install cementitious backer board (if applicable) in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry set mortar to a feather edge.
6. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

C. Installation - General:
1. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.
2. Lay tile pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than 1/2 width is used. Do not interrupt tile pattern through openings. Adjust layout to minimize tile cutting. Locate cuts to be least conspicuous.
3. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
4. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.
5. Form internal angles square and external angles bullnosed.
6. Install ceramic accessories rigidly in prepared openings.
7. Install non-ceramic trim in accordance with manufacturer's instructions.
8. Install thresholds where indicated.
9. Sound tile after setting. Replace hollow sounding units.
10. Keep expansion joints free of adhesive or grout. Apply sealant to joints.
11. Allow tile to set for a minimum of 48 hours prior to grouting.
12. Grout tile joints. Use standard grout unless otherwise indicated.
13. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

D. Installation - Floors - Thin-Set Methods:
1. Over interior concrete substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout, unless otherwise indicated.
   a. Where waterproofing membrane is indicated, install in accordance with TCA Handbook Method F122, with latex-portland cement grout.
   b. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F131.
2. Over wood substrates, install in accordance with TCA Handbook Method F142, with standard grout, unless otherwise indicated.
   a. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F143.

E. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
1. Extend waterproofing up vertical wall surfaces minimum 4" high.
2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

F. Wet Areas: Install waterproofing membrane at all wall base adjacent to tile flooring. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
1. Extend waterproofing up all vertical wall surfaces receiving base minimum 4" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces adjacent to tile flooring.

G. Cleaning:
1. Clean tile and grout surfaces.

H. Protection of Finished Work:
1. Do not permit traffic over finished floor surface for 72 hours after installation.
2. Cover floors with kraft paper and protect from dirt and residue from other trades.
3. Where floor will be exposed for prolonged periods cover with plywood or other similar type walkways.

Consultant:

HBC

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M.T.W.	J.C.C.

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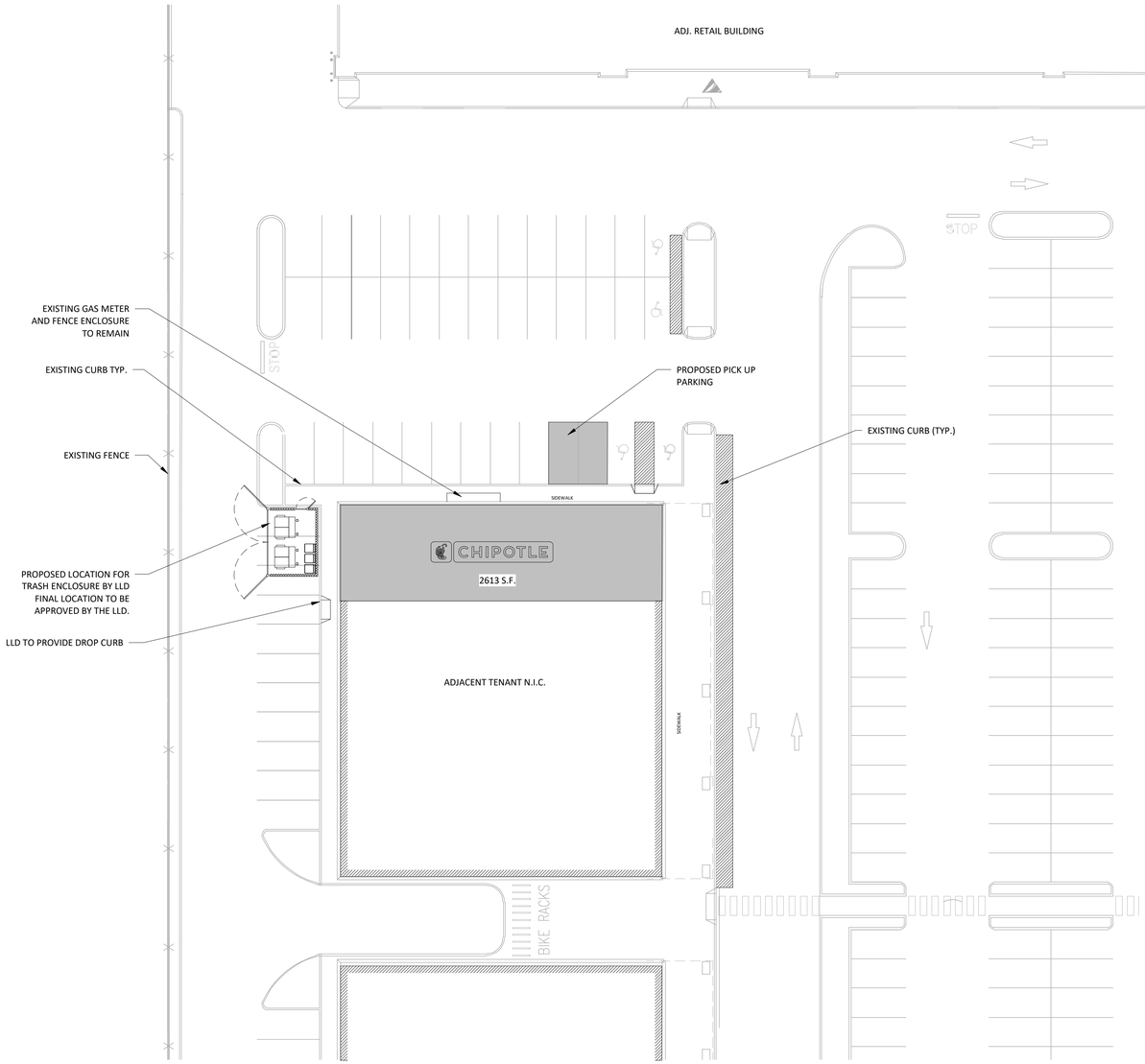
ARCHITECTURAL SPECIFICATIONS

G018.00

DOB JOB#: S01113212-I1

GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.



ARCHITECTURAL SITE PLAN

1 ST100

1" = 120'-0"

Consultant:

HBC

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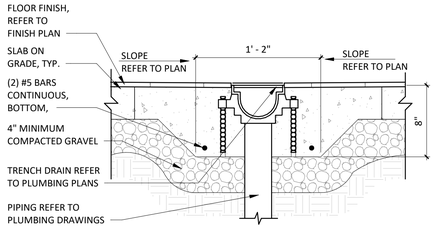
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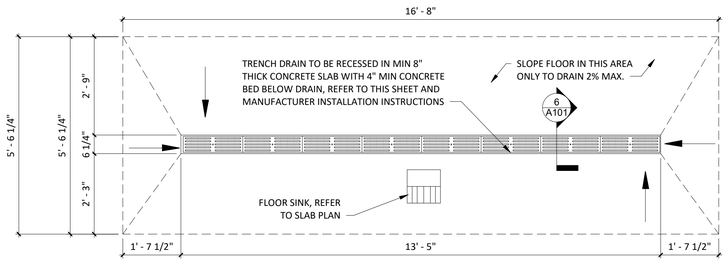
Contents: ARCHITECTURAL SITE PLAN

ST100.00

DOB JOB#: S01113212-I1



6 A101 **TRENCH DRAIN DETAIL**
1 1/2" = 1'-0"

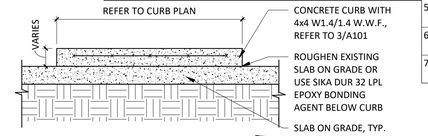


5 A101 **TRENCH DRAIN PLAN DETAIL**
1/2" = 1'-0"

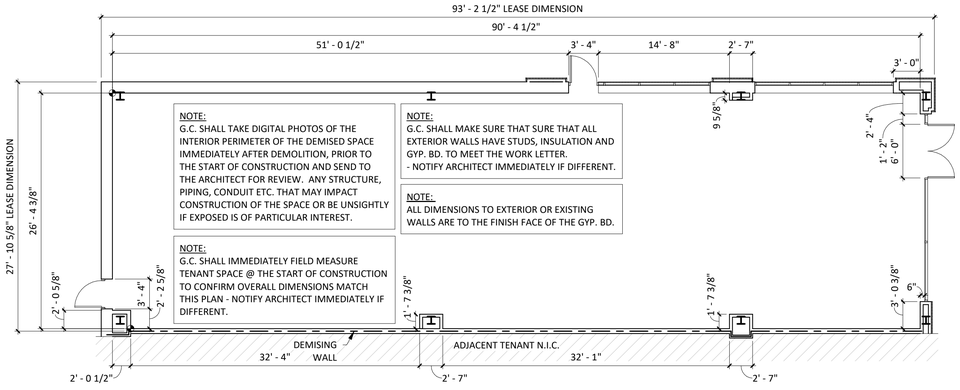
PLUMBING LEGEND	
	FLOOR SINK
⊕	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

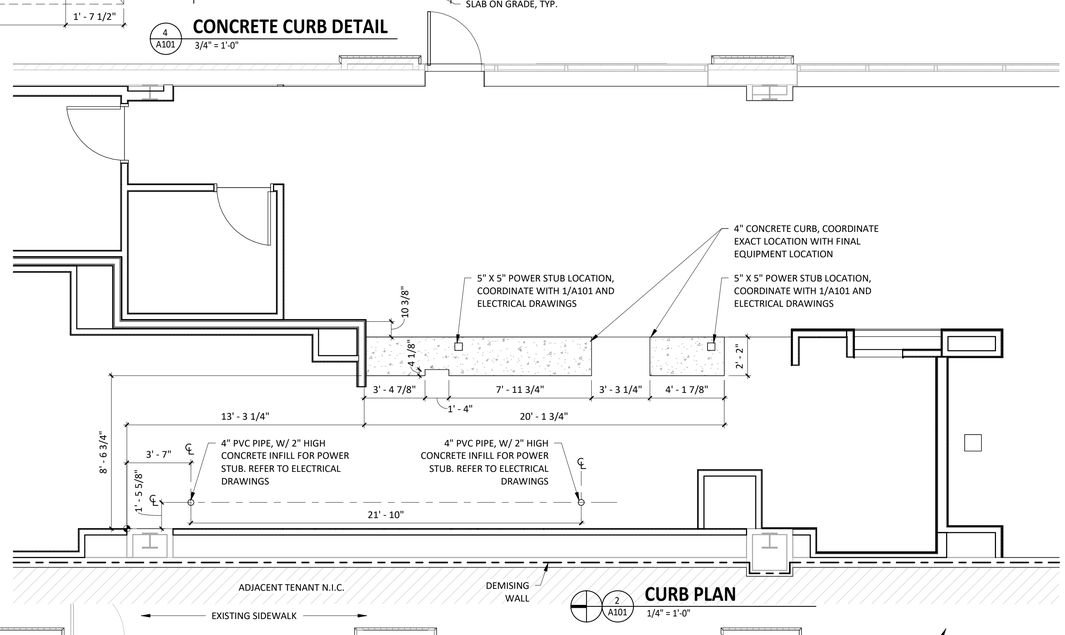
1. VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3. ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.
4. GC TO REVIEW ELECTRICAL PLANS FOR LIGHTING OR POWER STUB LOCATIONS PRIOR TO POURING SLAB.
5. REFER TO "03300 - CAST-IN-PLACE CONCRETE" IN SPECIFICATIONS FOR CONCRETE PATCHING OR INSTALLATION INFORMATION.
6. VERIFY PERIMETER FOUNDATION INSULATION IS EXISTING IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. ALL TILED FLOOR TO MAINTAIN POSITIVE SLOPE TO ALL FLOOR DRAINS OF NOT GREATER THAN 2% SLOPE FOR A 4'X4' AREA U.N.O.



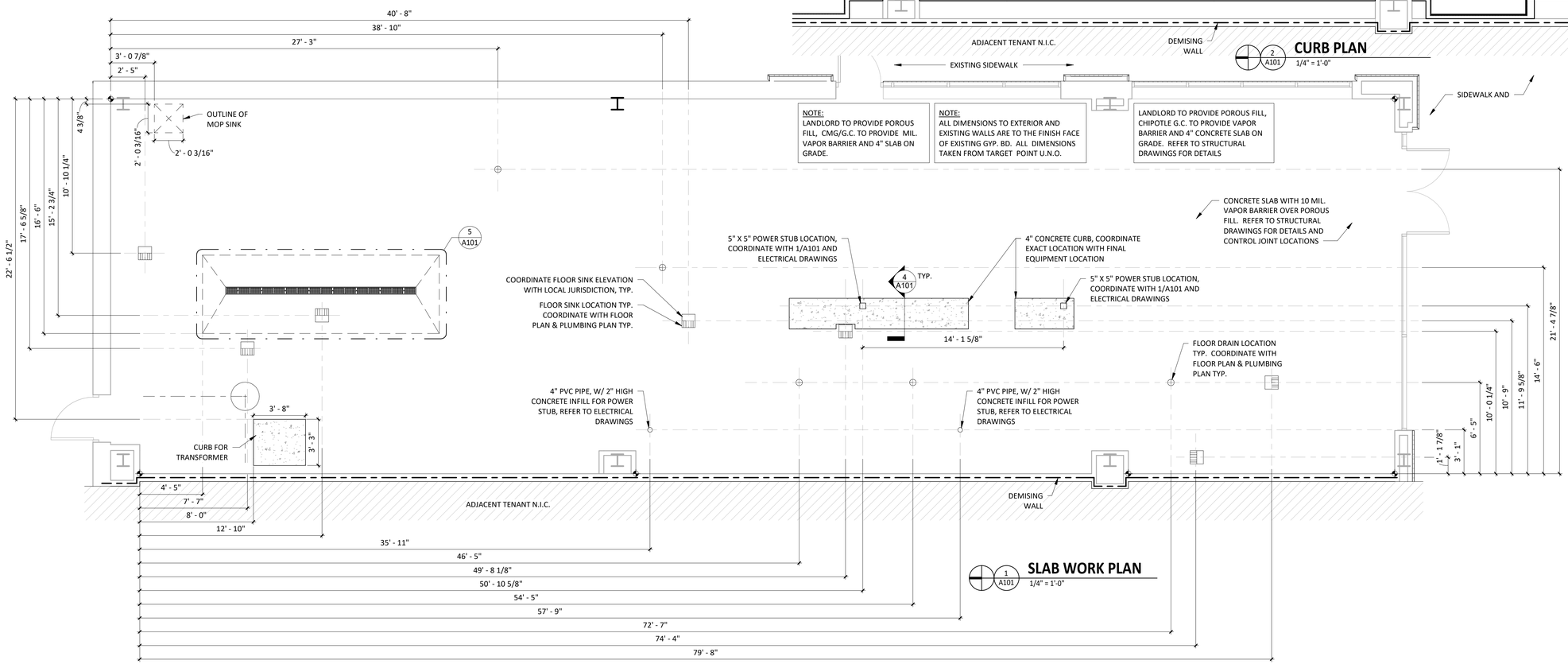
4 A101 **CONCRETE CURB DETAIL**
3/4" = 1'-0"



3 A101 **DEMISED PREMISES PLAN**
1/8" = 1'-0"



2 A101 **CURB PLAN**
1/4" = 1'-0"



1 A101 **SLAB WORK PLAN**
1/4" = 1'-0"

Consultant:

HBC

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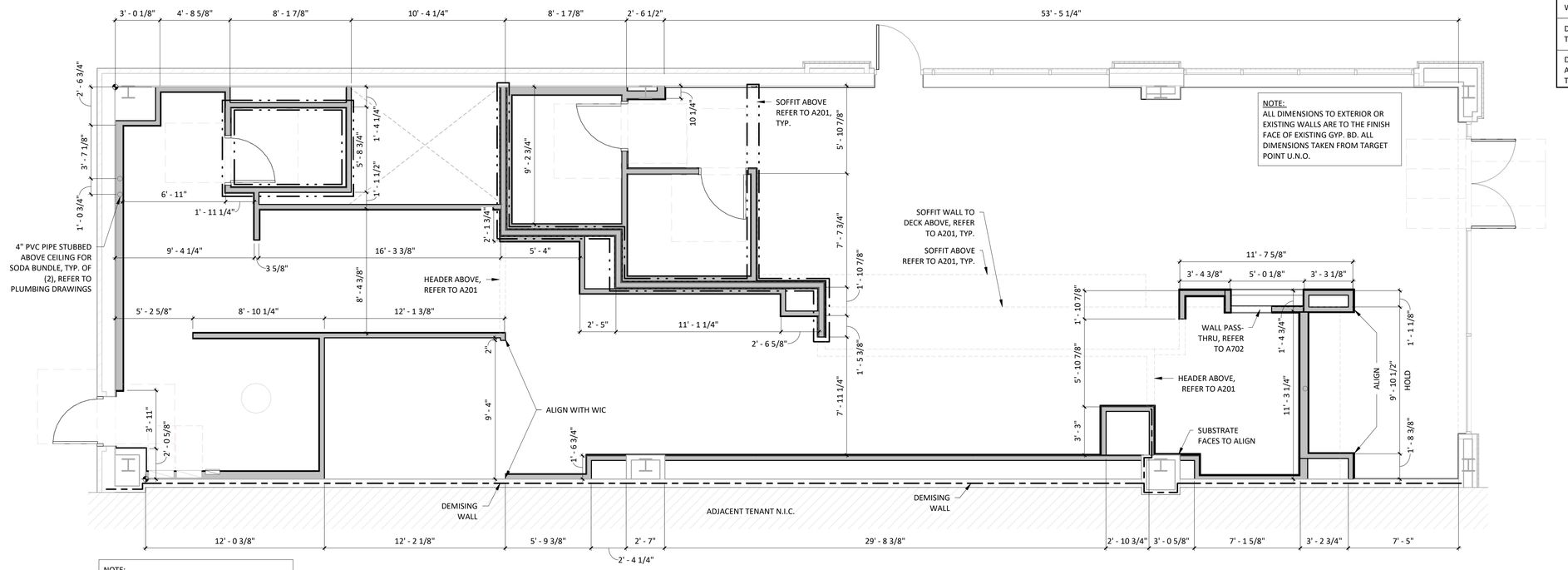
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Contents:
SLAB WORK PLAN

A101.00

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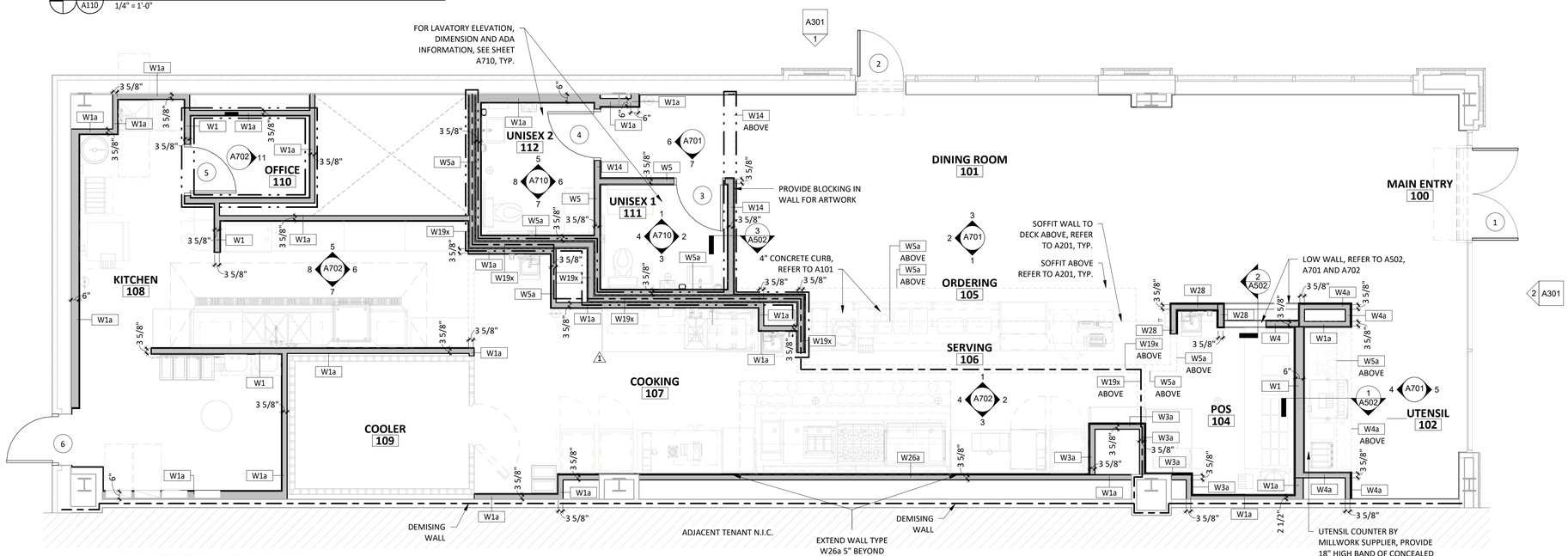


NOTE:
ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE FINISH FACE OF EXISTING GYP. BD. ALL DIMENSIONS TAKEN FROM TARGET POINT U.N.O.

NOTE:
ALL DIMENSIONS TO EXTERIOR WALLS ARE TO THE FINISH FACE OF EXISTING GYP. BD.

ARCHITECTURAL FLOOR PLAN - DIMENSIONS

2 / A110 — 1/4" = 1'-0"



ARCHITECTURAL FLOOR PLAN

1 / A110 — 1/4" = 1'-0"

WALL TYPE LEGEND

INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	
DESIGNATES TWO (2) HOUR RATED ASSEMBLY RUN TIGHT TO DECK, REFER TO UL U#419 ON A501 FOR DETAILS.	

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.
2. DASHED CIRCLE IN RESTROOM INDICATES 5'-0" TURNING DIAMETER REQUIRED BY ADA.
3. REFER TO WALL FINISH SCHEDULE ON A120.
4. STUD SIZES AS INDICATED ON PLAN.
5. INTERIOR DOORS ARE 4" OFF OF PERPENDICULAR WALL U.N.O.
6. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYP. BD. FOR A RATED ASSEMBLY, THE TYPE 'X' GYP. BD. IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
7. SEE SHEET A801 FOR ADDITIONAL SHEATHING BEHIND CERTAIN WALL FINISHES.
8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/AS01
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS.
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.

Consultant:

HBC

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ARCHITECTURAL FLOOR PLAN

A110.00

DOB JOB#: S01113212-I1

CODED NOTES

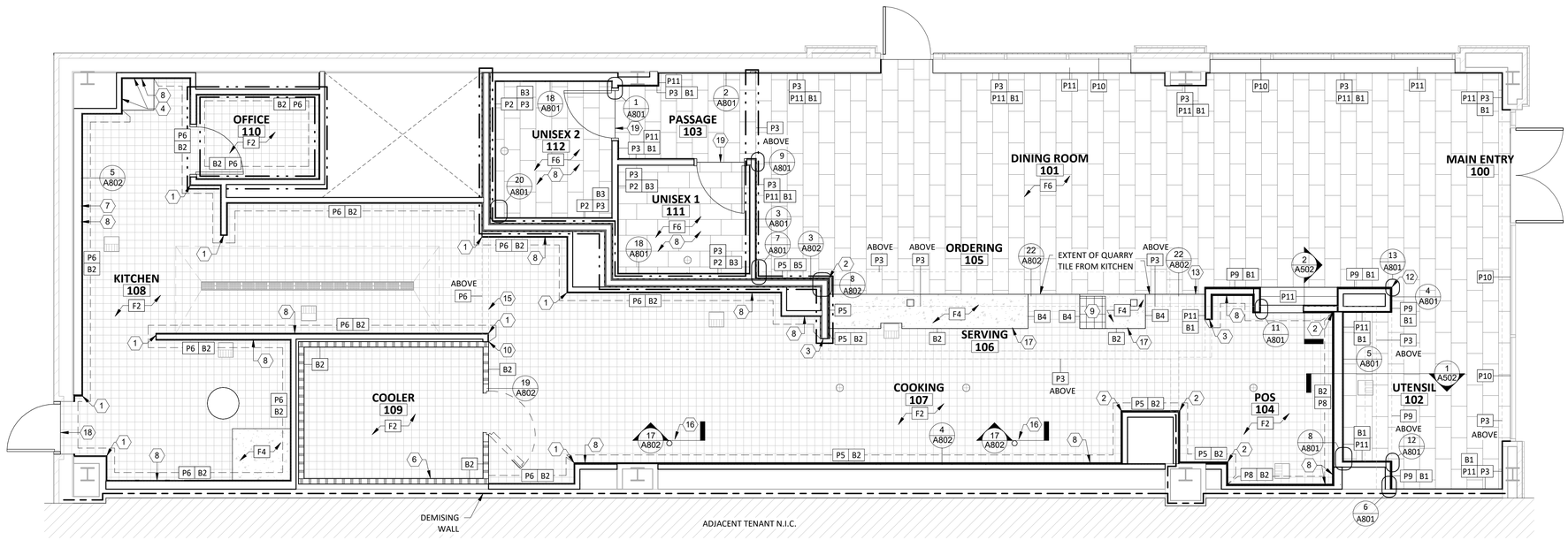
1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	NOT USED
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 13/A801
13	ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH. AT DOORS, ALIGN LOW EDGE WITH FRONT FACE OF DOOR.
14	SURFACE MOUNTED WALK OFF MAT. INSTALL PER MANUFACTURER'S SPECIFICATIONS; REFER TO 21/A801 FOR DETAILS. EXTEND OF WALK-OFF MAT AREA TO MATCH FLOOR CLEARANCE AREA REQUIRED BY ADA. TAPED FRAME TO BE INSTALLED OUTSIDE OF ADA AREA.
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 10/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY	F1	B1		C3	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING ROOM	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1	REFER TO PLAN FOR WALL FINISHES	C3	10' - 0"	SEE SHEET A701 AND SPECIFICATION SHEETS
104	POS	F2	B2/B4		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
105	ORDERING	F1	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	9' - 0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10' - 0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	COOLER	F2	B2		C4	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
110	OFFICE						
111	UNISEX 1	F5	B3		C3	8' - 0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	UNISEX 2	F5	B3		C3	8' - 0"	SEE SHEET A710 AND SPECIFICATION SHEETS

FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	NOT USED	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
F6	PORCELAIN TILE			P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - BRONZE ACCENT 3" x 12"				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT				
				P11	STONEWOOD WALL PANEL				
				P12	PREFINISHED BRAKE METAL				



1 A120 **FINISH PLAN**
1/4" = 1'-0"

GENERAL NOTES

1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).

Consultant:

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185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

Issue Record:

08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
	BID SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W.
Checked: J.C.C.

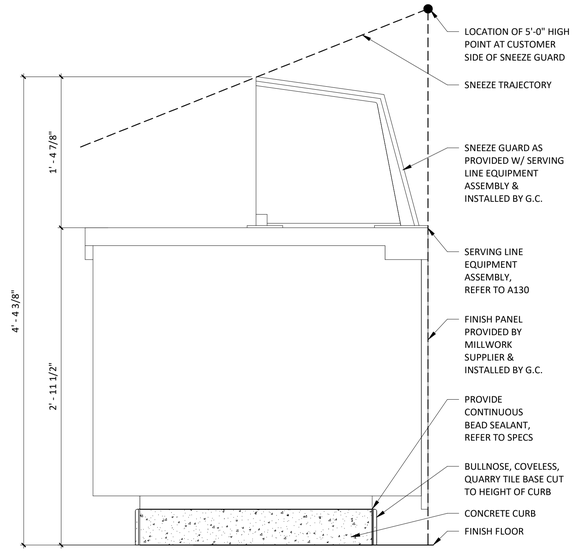
Project No.: 24026

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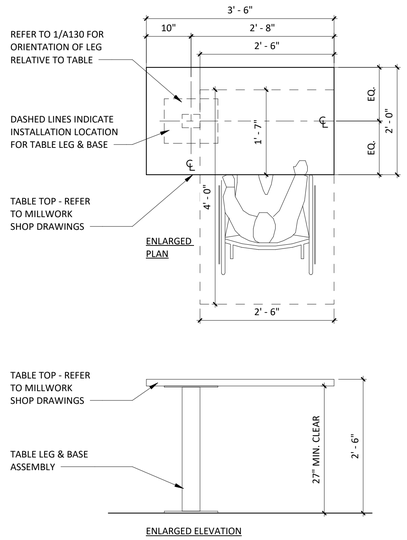
FINISH PLAN

A120.00

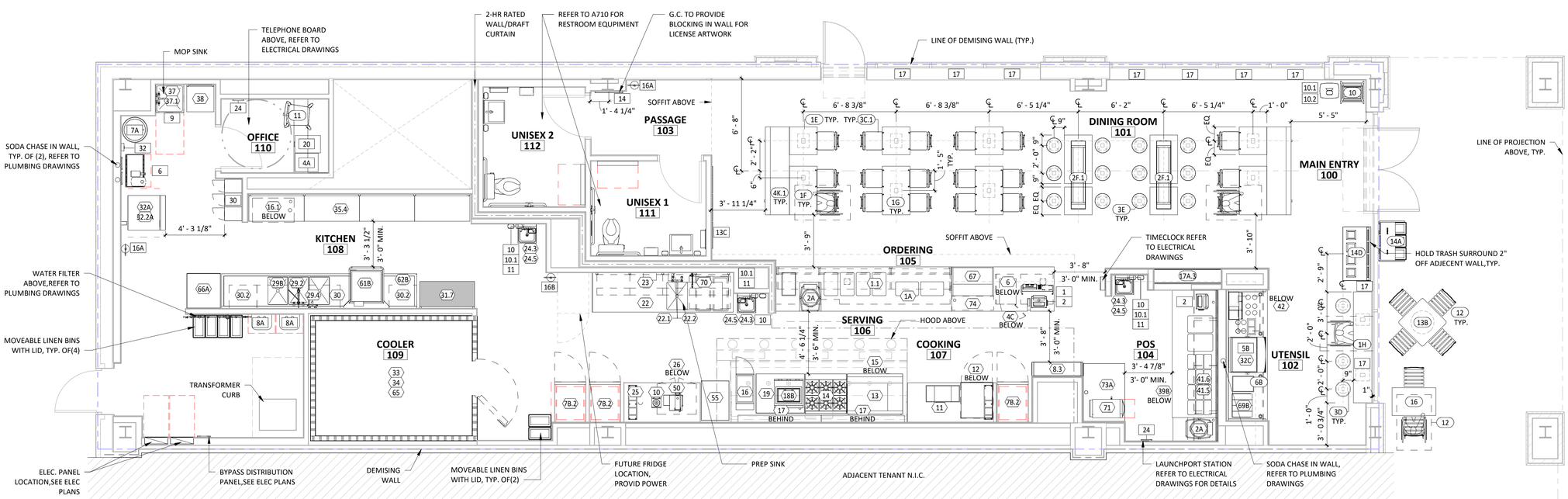
DOB JOB#: S01113212-I1



3 / A130 **DETAIL @ SERVE LINE SNEEZE GUARD**
1 1/2" = 1'-0"



2 / A130 **DETAIL @ ACCESSIBLE TABLE**
3/4" = 1'-0"



1 / A130 **FURNITURE, FIXTURE & EQUIPMENT PLAN**
1/4" = 1'-0"

GENERAL NOTES

1.	REFER TO SHEETS A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2.	ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
3.	ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS

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Contents: FF&E PLAN

A130.00

DOB JOB#: S01113212-I1

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	3	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Right	Delfield	77x34in Carving Station-RT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13	Grill 48in - Natural Gas - Divider Left	Woodstone	WS-PL-48-36-4-CT-Left	1	KES	KES	●	●			
13.1	Woodstone Grease Splash Guard	Nationwide Fab; Marlo Mfg	CHP-GCG-GSG	1	KES	KES					Verify If Required
14	Range 6 Burner - Natural Gas	Garland	U36-6S	1	KES	KES		●			
15	Woodstone Grill Stand 48x31in - Divider Left	Woodstone	000-PL-STAND-CASTER	1	KES	KES					
16	Fryer - Gas - Standard Efficiency	Varies	Varies	1	KES	KES	●	●			Mounted On Legs, G.C. To Pin Front Legs To Floor
16.1	Grease Caddy	American Welding	Chipotle Grease Caddy	1	KES	KES					
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-6WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location, Provide Blocking To Mount To Wall
18B	Gas Rice Cooker	Woodstone	WS-RGC-60	1	KES	GC	●	●			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Left	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Right	Trimark	S1-122x34-US-FF-R	1	KES	GC					
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	3	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	3	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1B	Ice Maker - Remote Condenser	Hoshizaki	URC-9F	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2A	Ice Maker - Storage Bin	Hoshizaki	B500SF	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	2	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	2	KES	KES			●		
32.5	Ice Maker - Sanitizer	RGF	IMSB	1	TUV	GC	●				Refer To Installation Guide. When Installed At Utensil Counter, Mount Below Counter In Accessible Location. Refer To Plumbing Drawings.
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x10ft 3in - Standard	Manitowoc/Norlake	CHP912SL-RS	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x10	Cambro (Camshelving)	CHP912EL	1	KES	KES					
35.4	Dry Storage Racks 23x192x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
61B	Dish Machine (w/Pump)	Hobart	AM16SCB	1	KES	KES	●		●	●	
62B	Dish Table 30x30	Trimark	CDT-30X30X36.5-B	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66A	Drop-Off Table - 29x30in	Trimark	TS-29x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-UC	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	●			●	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			●		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	●				
73A	50" TurboChef Table	Trimark	50X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

Consultant:

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Checked: J.C.C.

Project No.: 24026

Contents:

EQUIPMENT SCHEDULE

A131.00

DOB JOB#: S01113212-I1

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf Wall Mounted at 89" AFF	1	SPS	SPS	●		●		
7A	Bulk CO2 Tank	1	CO2	CO2	●				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8A	Gas Tankless Water Heater	2	GC	GC		●	●	●	Refer to MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	3	WA	GC					
10.1	Hand Sanitizer Dispenser	4	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	3	WA	GC					Provide Plywood Blocking to Mount to Wall
13C	M4.0 - Artwork Panel - Carved Rice Board 2Hx, Start Pattern At Column 1	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	3	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	9	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
24	iPAD Wall Station	3	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
30	Lockers - 3 Wide x 5 High	1	KES	GC					
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Mount At 18" AFF, Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	4	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	2	TMS	GC					See Detail On A130
1G	M4.0 - Table 24x42in, Rectangular Base (Centered)	2	TMS	GC					
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2F.1	M4.0 - Bar Height Table 6-Top, With Footrest	2	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	18	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	3	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	12	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4K.1	Banquette Bench (Black) - Floor Mount	2	TMS	GC					
6B	M4.0 - Beverage Counter - No Trash - 4" Splash - 113"	1	TMS	GC				●	Coordinate Floor Drain Installation with Utensil Counter Installation
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	6	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	1	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14D	M4.0 - 4 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
16	Accessible Patio Table	1	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.3	MOPUS Shelving - 58"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Stainless Edge Of The Shelf To Face Kitchen

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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CHARLESTON STATEN ISLAND
185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

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Drawn:	Checked:
M.T.W.	J.C.C.

Project No.: 24026

Contents:

EQUIP. & FURNITURE SCHEDULE

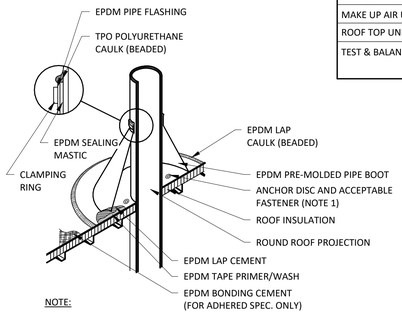
A132.00

DOB JOB#: S01113212-I1

HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

DESCRIPTION	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
			ELEC	GAS	WATER	SEWER	
EXHAUST FANS	HS	GC					INSTALLED BY GC
MAKE UP AIR UNIT	HS	GC					INSTALLED BY GC
ROOF TOP UNITS	HES	GC					INSTALLED BY GC
TEST & BALANCE SYSTEM	TAB	-					FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM.



NOTE:

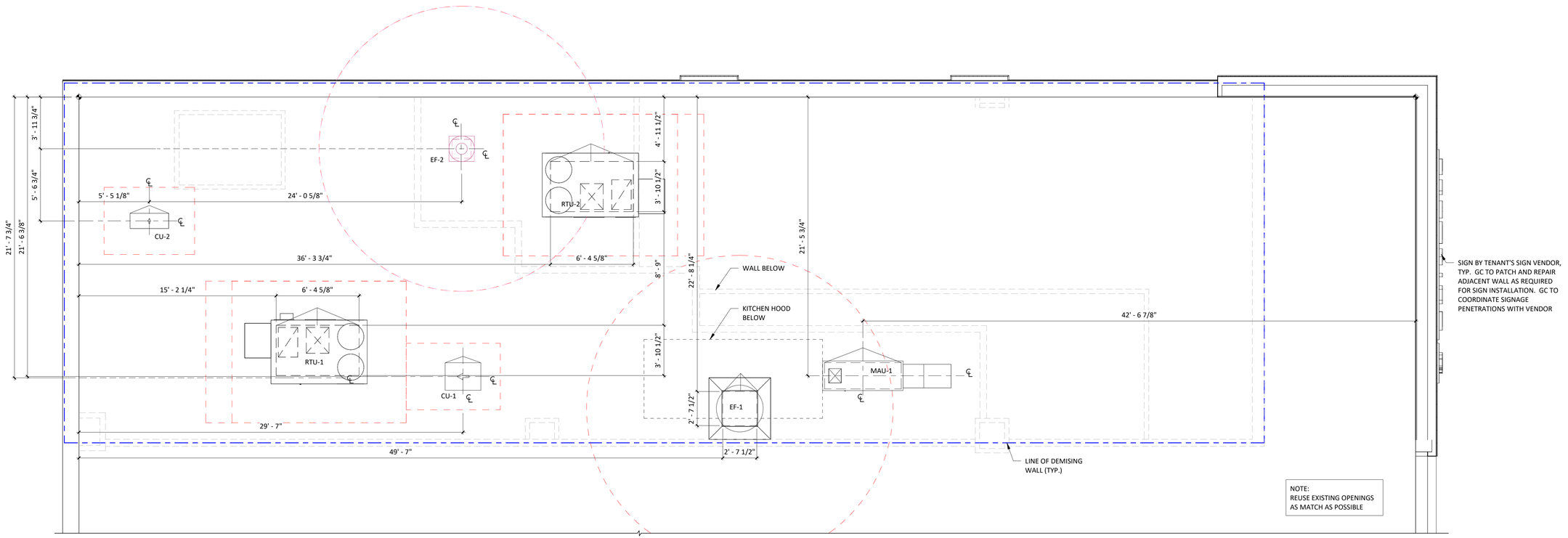
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.

BOOT DETAIL

2 / A140 — 1/4" = 1'-0"

GENERAL NOTES

1.	SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2.	SEE MECHANICAL PLANS FOR ROOF TOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
6.	SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
7.	PROVID INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT PENETRATIONS.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.
10	ALL UNUSED ROOTOP EQUIPMENT TO BE REMOVED. PATCH ROOF AS NECESSARY BY LLD.



ROOF PLAN

1 / A140 — 1/4" = 1'-0"

Consultant:

HBC

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Checked: J.C.C.

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ARCHITECTURAL ROOF PLAN

A140.00

DOB JOB#: S01113212-I1

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 10/A210 AND PLUMBING DRAWINGS FOR DETAILS.
21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
22.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
24.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
25.	SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
26.	REFER TO A120 FOR FINISH SCHEDULE

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES: ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	●				

CONDUIT GUIDELINES

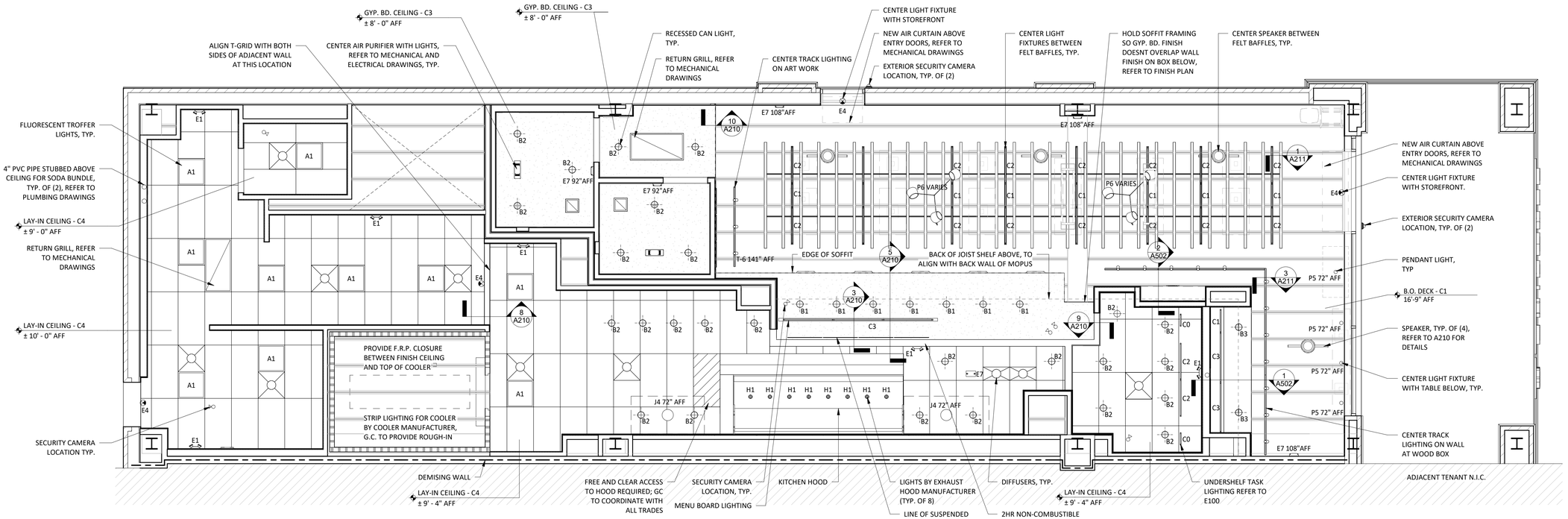
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	26	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	2	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C1	9	SURFACE	LOW PROFILE LED 2FT	SEE SHEET E100
C2	18	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	5	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
E1	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E4	4	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	4	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	2	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	15	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-4	1	SUSPENDED	M4.0 - TRACK 4'	SEE SHEET E100
T-6	2	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	2	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100



1 A201 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

Consultant:

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Checked: J.C.C.

Project No.: 24026

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REFLECTED CEILING PLAN

A201.00

DOB JOB#: S01113212-I1

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.	14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.	15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.	16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.	17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.	18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.	19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.	20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 10/A210 AND PLUMBING DRAWINGS FOR DETAILS.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.	21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.	22.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.	23.	ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
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13.	ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.	26.	REFER TO A120 FOR FINISH SCHEDULE

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES: ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	●				

CONDUIT GUIDELINES

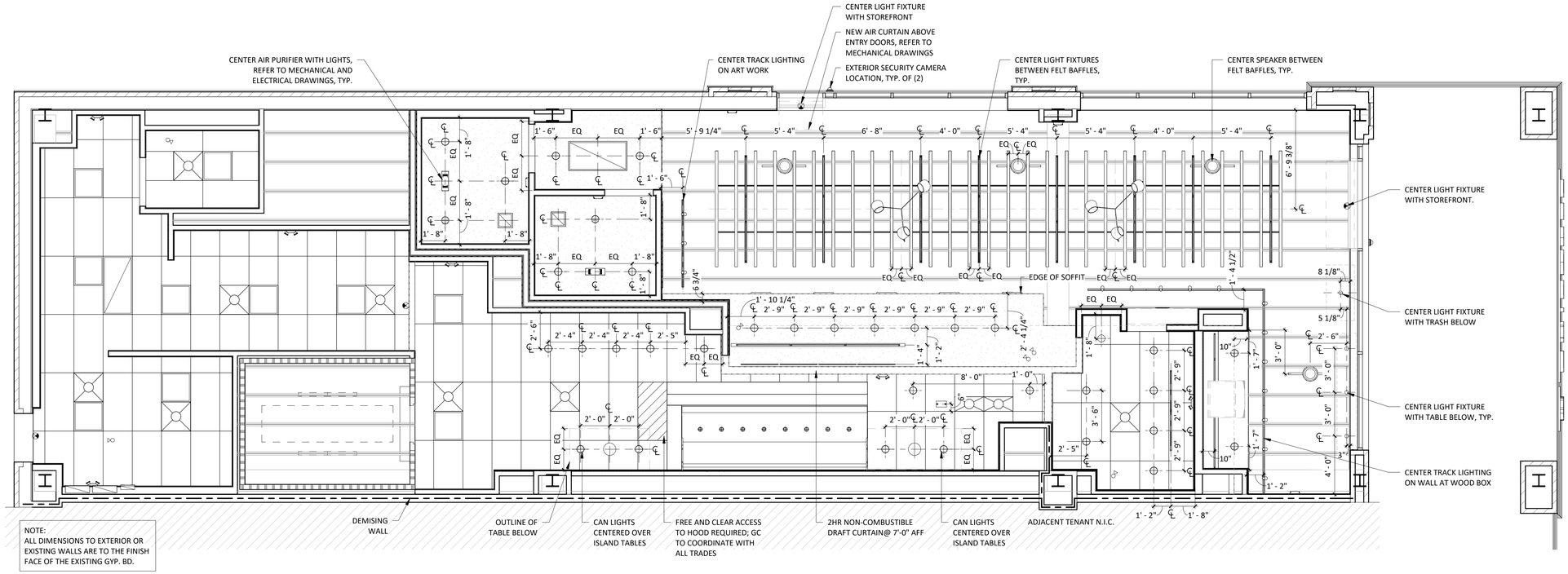
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SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	26	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	2	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C1	9	SURFACE	LOW PROFILE LED 2FT	SEE SHEET E100
C2	18	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	5	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
E1	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E4	4	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	4	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	2	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	15	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-4	1	SUSPENDED	M4.0 - TRACK 4'	SEE SHEET E100
T-6	2	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	2	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100



NOTE:
ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE FINISH FACE OF THE EXISTING GYP. BD.

DIMENSIONED REFLECTED CEILING PLAN

1/4" = 1'-0"

Consultant:

HBC

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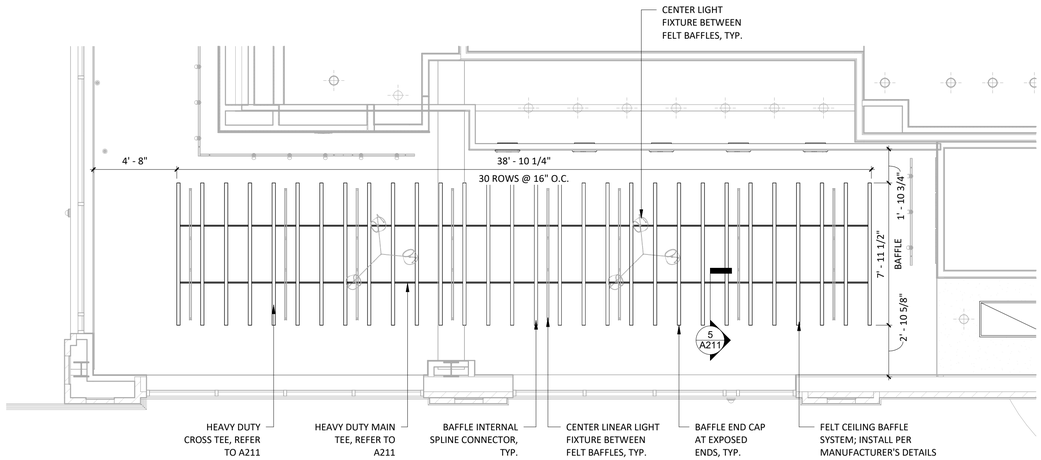
A202.00

DOB JOB#: S01113212-I1

FELT BAFFLE CEILING SYSTEM SCHEDULE

*BLADES TO BE INSTALLED 1'-4" O.C. U.N.O.

QTY	DESCRIPTION	FINISH
30	2.25" x 8.75" FELT BAFFLE SECTION - 8' LONG (8' - 0")	GREY
60	BAFFLE END CAP	MATCH BAFFLE FINISH



1 A203 **FELT BLADE PLAN**

1/4" = 1'-0"

Consultant:

HBC

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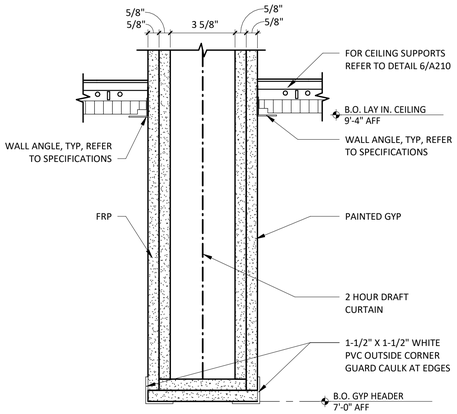
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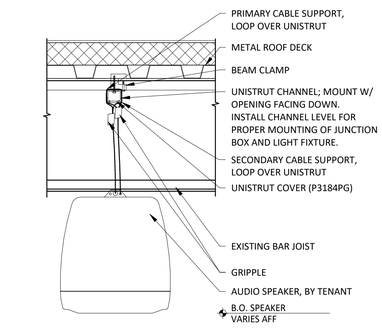
FELT BLADE, DUCTWORK PLAN

A203.00

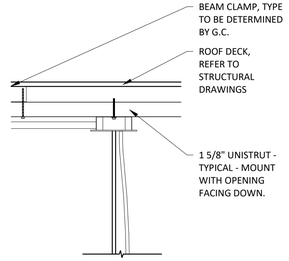
DOB JOB#: S01113212-I1



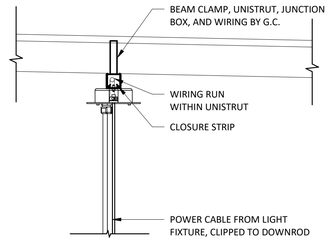
14/A210 DRAFT CURTAIN DETAIL
3" = 1'-0"



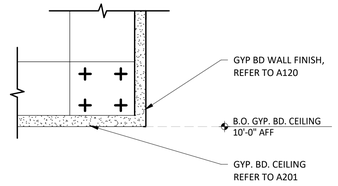
13/A210 SPEAKER INSTALLATION
1 1/2" = 1'-0"



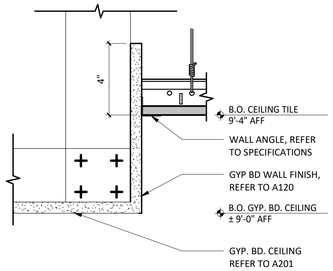
12/A210 TYP. UNISTRUT MOUNTING DETAIL
1 1/2" = 1'-0"



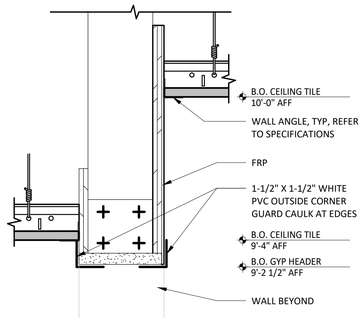
11/A210 UNISTRUT DETAIL
1 1/2" = 1'-0"



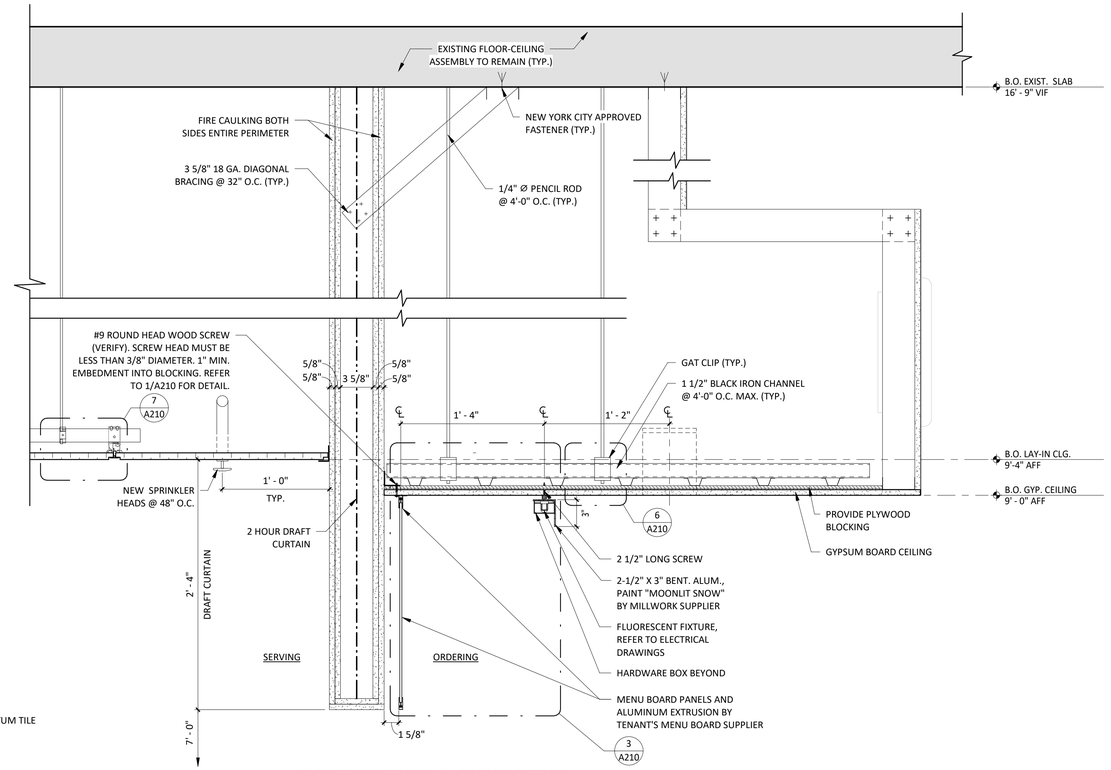
10/A210 RESTROOM VESTIBULE DETAIL
3" = 1'-0"



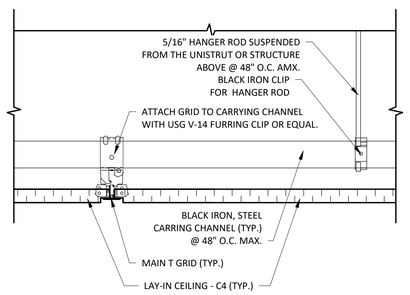
9/A210 KITCHEN CEILING TRANSITION
3" = 1'-0"



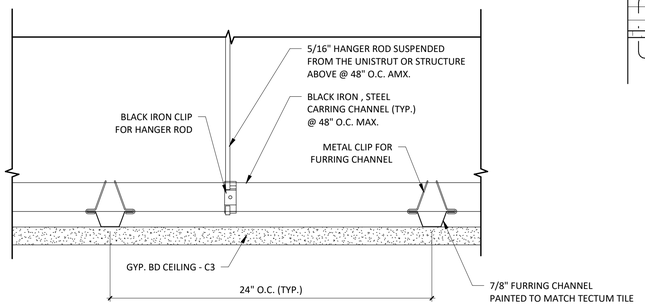
8/A210 KITCHEN CEILING TRANSITION
3" = 1'-0"



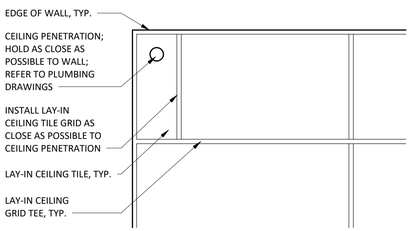
5/A210 DRAFT CURTAIN & MENU DETAIL
1 1/2" = 1'-0"



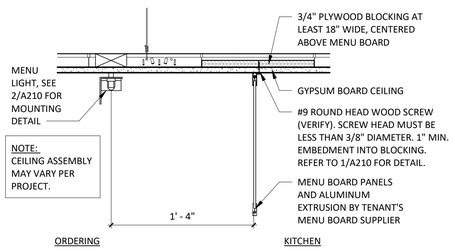
7/A210 LAY-IN CEILING DETAIL
3" = 1'-0"



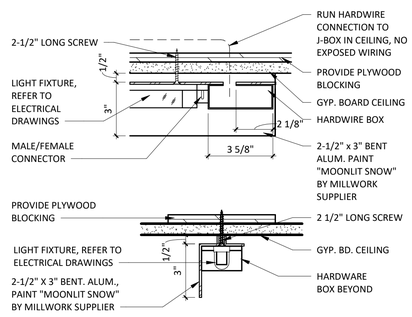
6/A210 GYP. BD. CEILING DETAIL
3" = 1'-0"



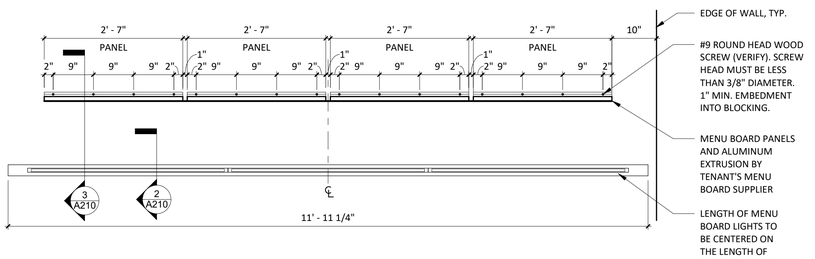
4/A210 LAY-IN CEILING PENETRATION - PLAN DETAIL
3/4" = 1'-0"



3/A210 MENU BOARD DETAIL
1 1/2" = 1'-0"



2/A210 MENU BOARD / ACCENT LIGHT DETAILS
3" = 1'-0"



1/A210 MENU - SCREW PATTERN PLAN
3/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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tel: 212 - 647 - 0011
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STORE NO.: 31-5447
CHARLESTON STATEN ISLAND
185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

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Revisions:

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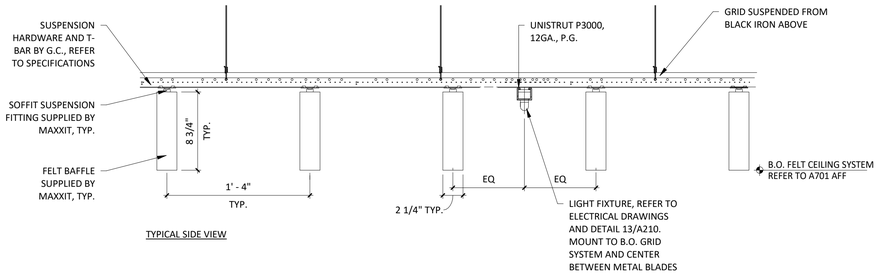
Project No. 24026

Contents:

CEILING DETAILS

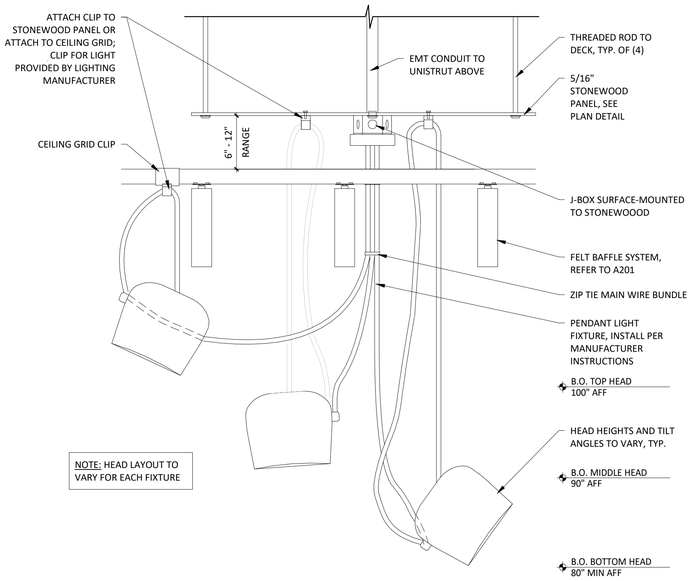
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DOB JOB#: S01113212-I1



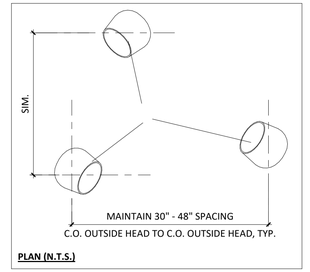
5 A211 FELT BLADE LAYOUT

1 1/2" = 1'-0"

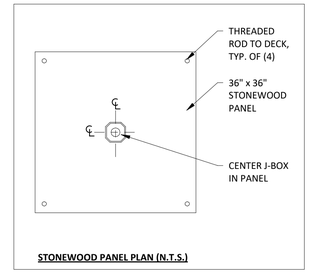


4 A211 SUSPENDED LIGHT FIXTURE @ FELT BLADES

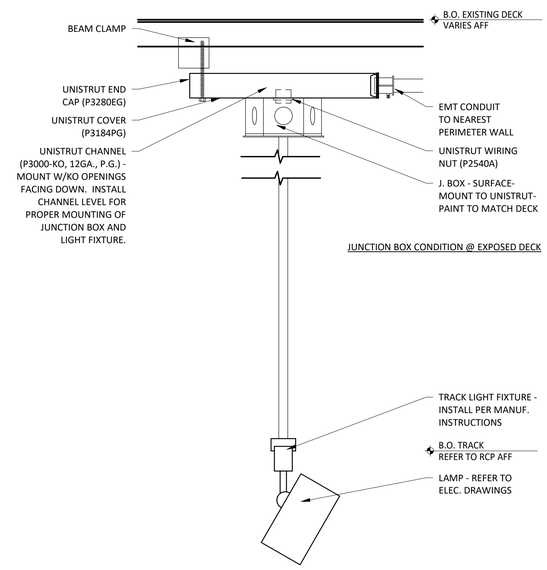
1 1/2" = 1'-0"



PLAN (N.T.S.)

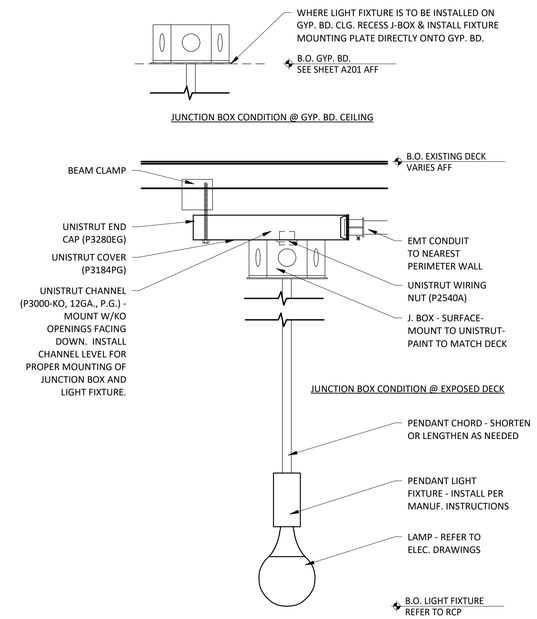


STONEWOOD PANEL PLAN (N.T.S.)



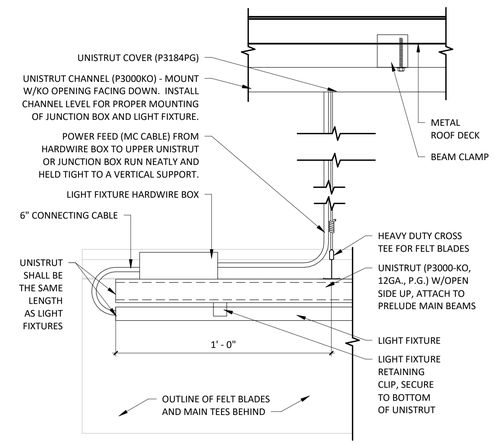
3 A211 TRACKLIGHT

3" = 1'-0"



2 A211 PENDANT LIGHT

3" = 1'-0"



1 A211 SUSPENDED STRIP LIGHT CONNECTION DETAIL @ FELT BLADE

3" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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12/23/2024	CONSTRUCTION SET

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Drawn:	Checked:
M.T.W.	J.C.C.

Project No.: 24026

Contents:

LIGHTING DETAILS

A211.00

DOB JOB#: S01113212-I1

ELEVATION LEGEND

	DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

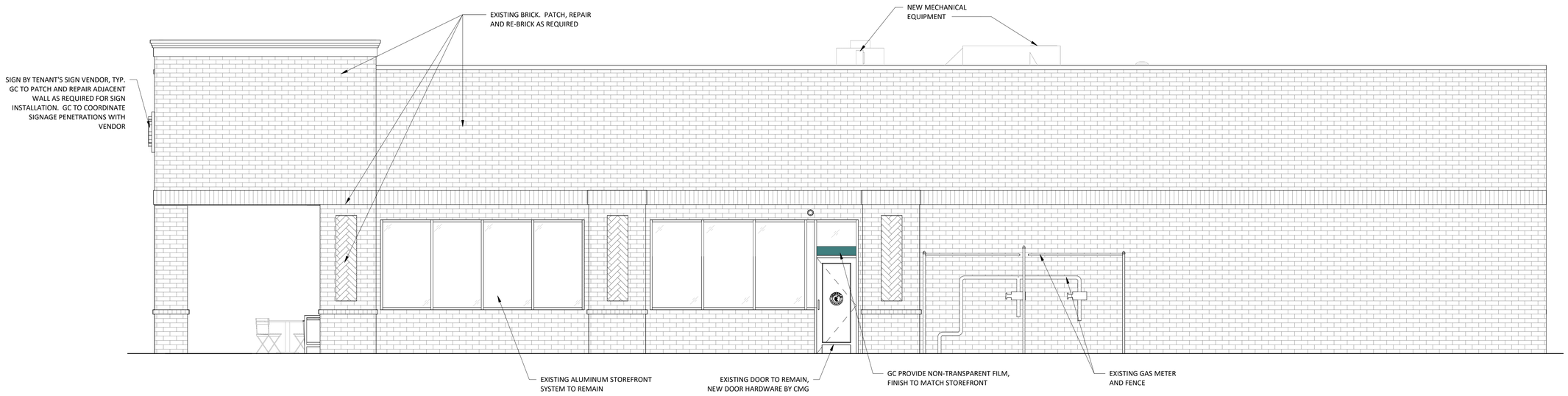
GENERAL NOTES

1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



2 A301 EXTERIOR ELEVATION SOUTH

1/4" = 1'-0"



1 A301 EXTERIOR ELEVATION EAST

1/4" = 1'-0"

Consultant:

HBC

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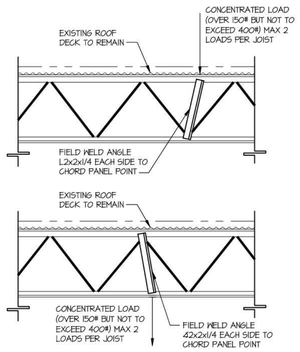
Project No.: 24026

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EXTERIOR ELEVATIONS

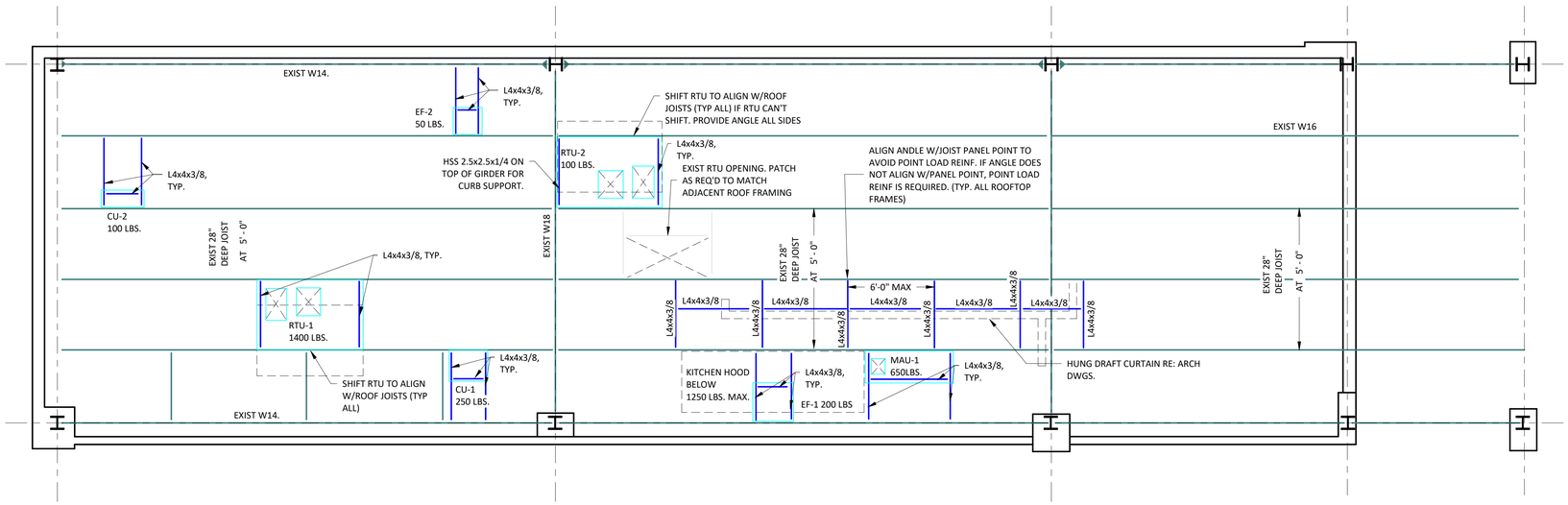
A301.00

DOB JOB#: S01113212-I1



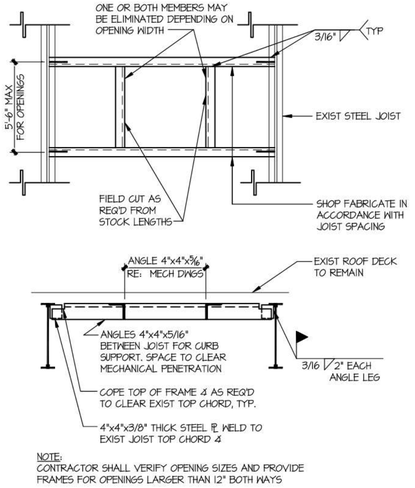
6 A406 **TYPICAL JOIST REINF. AT POINT LOAD DETAIL**

3/4" = 1'-0"



7 A406 **FRAMING PLAN**

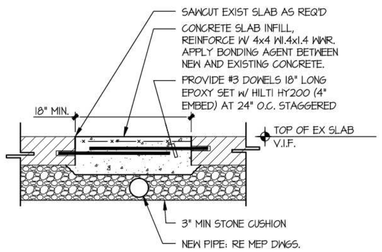
N.T.S.



NOTE:
CONTRACTOR SHALL VERIFY OPENING SIZES AND PROVIDE FRAMES FOR OPENINGS LARGER THAN 12" BOTH WAYS

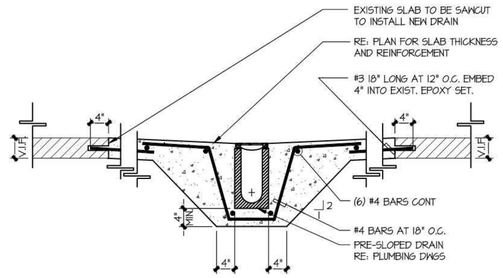
5 A406 **TYPICAL EXIST. ROOF DECK OPENING DETAIL**

N.T.S.



4 A406 **DETAIL AT BELOW-SLAB PIPE**

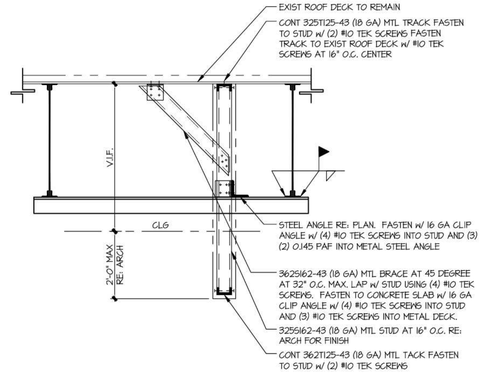
3/4" = 1'-0"



NOTE: COORDINATE PHYSICAL DIMENSION OF TRENCH DRAIN W/ ARCH PLANS & PLUMBING DRAWINGS

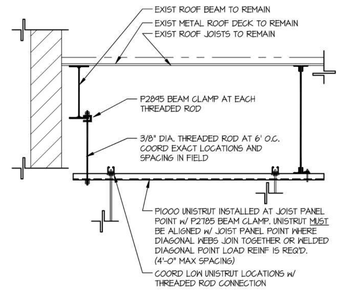
3 A406 **DETAIL AT NEW TRENCH DRAIN**

3/4" = 1'-0"



2 A406 **DETAIL @ DRAFT CURTAIN**

3/4" = 1'-0"



1 A406 **DETAIL AT HUNG HOOD**

3/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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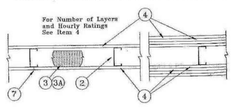
Contents:

STRUCTURAL ROOF PLAN & DETAILS

A406.00

DOB JOB#: S01113212-I1

Design No. U419
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners —** (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Floor and Ceiling Runners* —** Not shown – In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. wide with 1 in. long legs, fabricated from min. 0.0150 in. (0.046 in., min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

1B. **Floor and Ceiling Runners —** (Not shown – In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-9/16 in. wide with 1-3/16 in. wide flanges, fabricated from min. 0.0150 in. galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

A. **Steel Studs* —** In lieu of Item 2 - Proprietary channel shaped studs, min. width as indicated under Item 4, min. 1-1/4 in. long legs and 1/4 in. long folded back return flange legs, fabricated from min. 0.0155 in. (0.0149 in., min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

3. **Batts and Blankets* —** (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.

A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.

4. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Min Stud Depth, Item 2	Min Stud Depth, Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.
1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO—1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE
When Item 6B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 5.

4A. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5.
CANADIAN GYPSUM COMPANY —Type SHX.
UNITED STATES GYPSUM CO —Type FRX-G, SHX.
USG MEXICO S A DE C V —Type SHX.

5. **Fasteners —** (Not shown) — For use with Item 2 - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV) 959

1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

5A. **Fasteners —** (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally. or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied vertically:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Two layer systems applied horizontally:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer-1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

6. **Furring Channels —** (Optional, not shown, for single layer or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.
b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC —Type RSIC-1.

6B. **Steel Framing Members (Optional, Not Shown)* —** As an alternate to Item 6, furring channels and Steel Framing Members on only one side of studs as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 4. Two layers of gypsum board attached to furring channels as described in Item 4. Not for use with Item 4A.
b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

960 FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

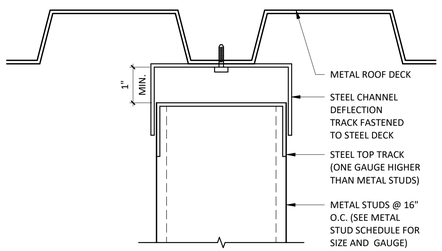
KINETICS NOISE CONTROL INC — Type Isomax

7. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco —** (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants* —** (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS

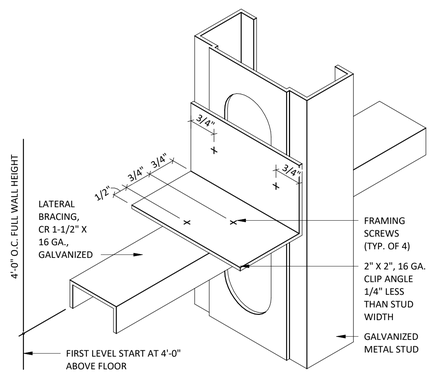
*Bearing the UL Classification Mark

4 U419
A501 — 12" = 1'-0"

3 SOFFIT HANGING DETAIL
A501 — 3" = 1'-0"



2 DEFLECTION TRACK DETAIL @ PARTITION
A501 — 6" = 1'-0"

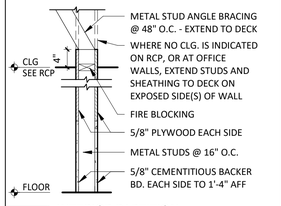


1 LATERAL BRACING DETAIL @ PARTITION
A501 — NOT TO SCALE

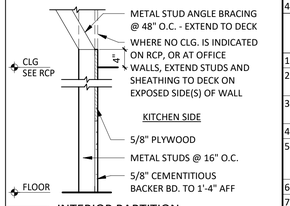
WALL TYPES

1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

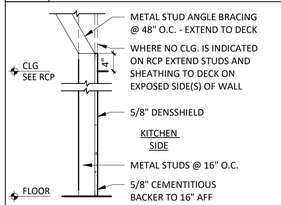
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



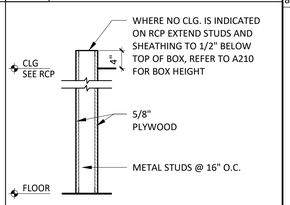
W1 INTERIOR PARTITION



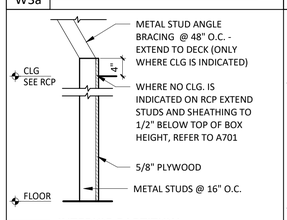
W1a INTERIOR PARTITION



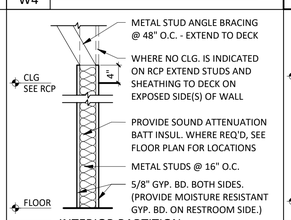
W3a INTERIOR PARTITION



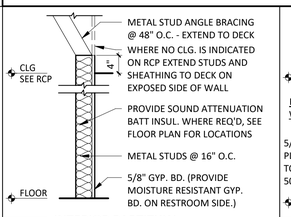
W4 INTERIOR PARTITION



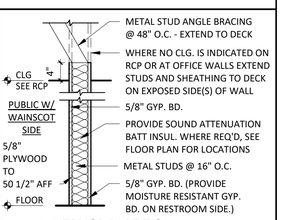
W4a INTERIOR PARTITION



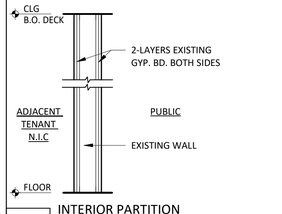
W5 INTERIOR PARTITION



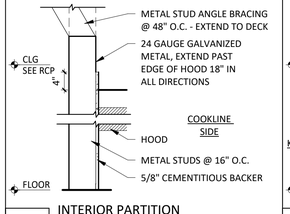
W5a INTERIOR PARTITION



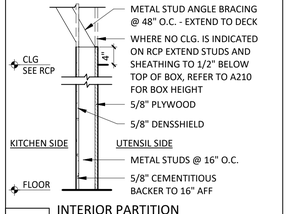
W14 INTERIOR PARTITION



W19x INTERIOR PARTITION



W26a INTERIOR PARTITION



W28 INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
- 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
- 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
tel: 212 - 647 - 0011
fax: 212 - 647 - 0022

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185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

Issue Record:

08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
	BID SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W. Checked: J.C.C.

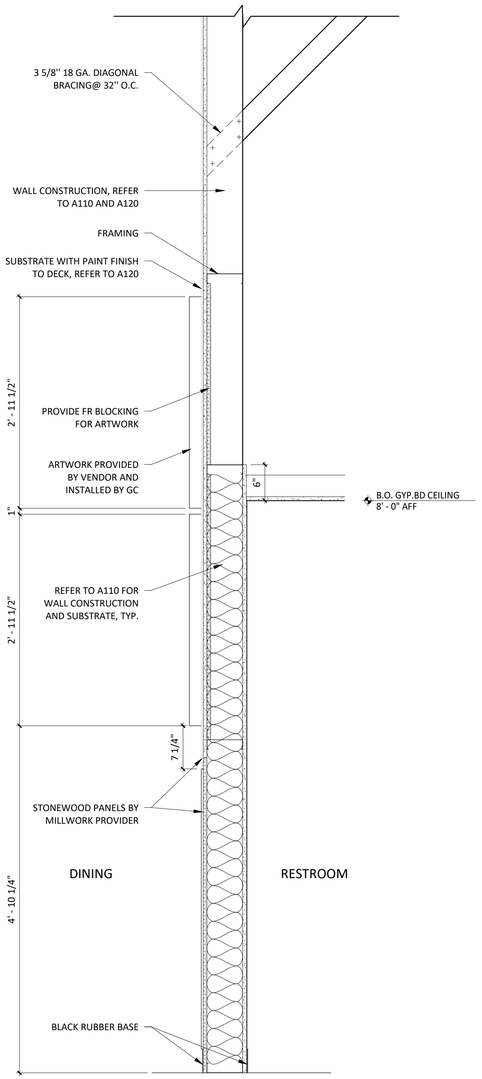
Project No. 24026

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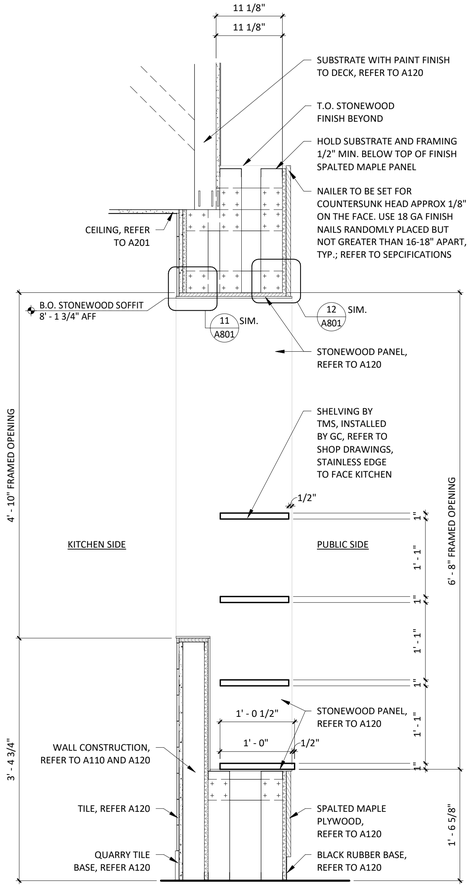
ARCHITECTURAL WALL TYPES

A501.00

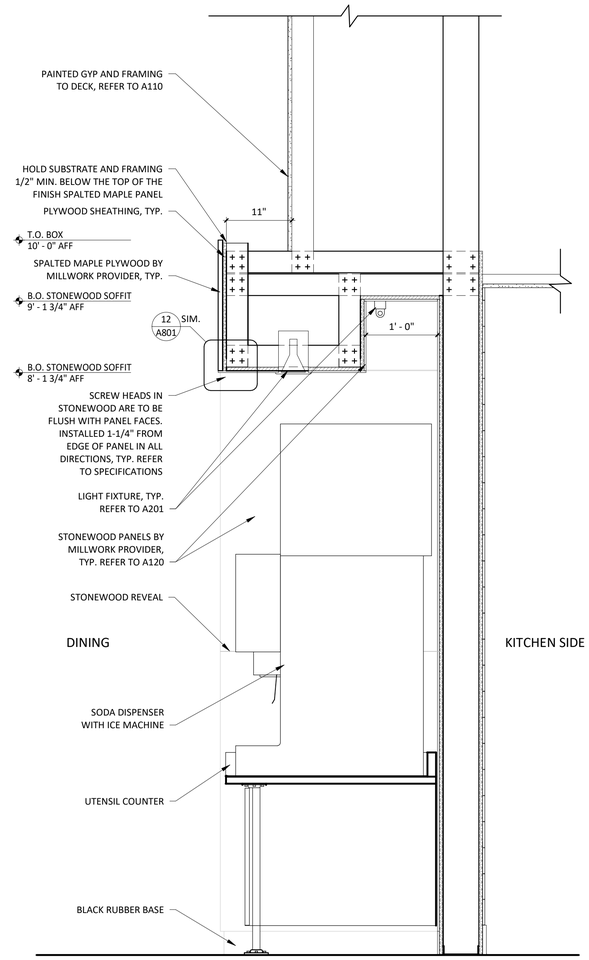
DOB JOB#: S01113212-I1



3 A502 **ARTWORK SECTION @ STONEWOOD WAINSCOT**
1" = 1'-0"



2 A502 **MOPUS SECTION - PASS THRU**
1" = 1'-0"



1 A502 **UTENSIL SECTION**
1" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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Drawn:	Checked:
M.T.W.	J.C.C.

Project No.
24026

Contents:

INTERIOR SECTIONS & DETAILS

A502.00

DOB JOB#: S01113212-I1

DOOR SCHEDULE

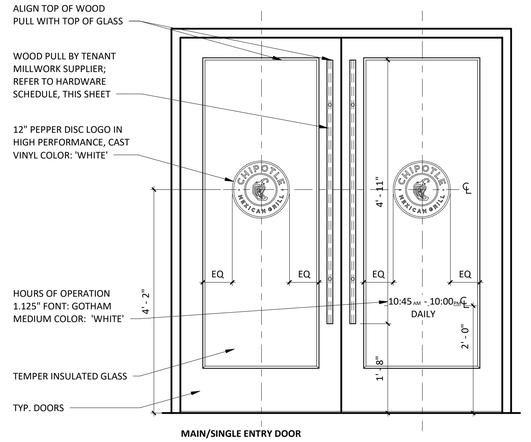
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	NEW		DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1			1,2,4,5
2	DINING ROOM	EXISTING		SINGLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	3' - 0"	7' - 3 1/2"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2B			1,3,4,5
3	UNISEX 1	NEW		UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6			
4	UNISEX 2	NEW		UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5			
5	OFFICE	NEW		MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4			
6	KITCHEN	NEW		HM REAR KITCHEN (STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3			1,4,6

REMARK NOTES

1.	DOORS WITH REMARK #1 TO BE KEYED THE SAME
2.	EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS.
3.	THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER
4.	USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5.	BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6.	REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.

*IF STATUS IS "EXISTING" G.C TO DETERMINE CONDITION OF EXISTING HADWARE. IF HARDWARE IS IN POOR CONDITION, PROVIDE HARDWARE IN HARDWARE SCHEDULE. CONFIRM REPLACEMENT WITH CHIPOTLE CM.

TYPICAL EXTERIOR DOOR TYPES



MAIN/SINGLE ENTRY DOOR

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-1B
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 2B - ENTRY - SINGLE - WOOD PULL/PUSH

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(1)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS.
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL D575C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	EXIT ALARM	TRINE, MODEL 206-3
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

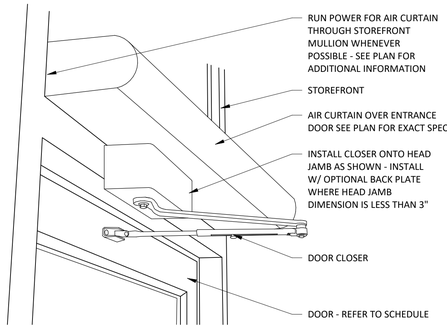
SET 5 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

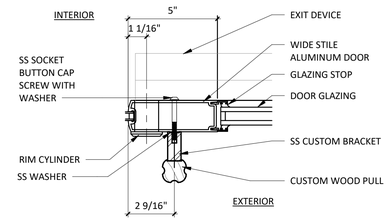
(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

DOOR CLOSER W/ AIR CURTAIN



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

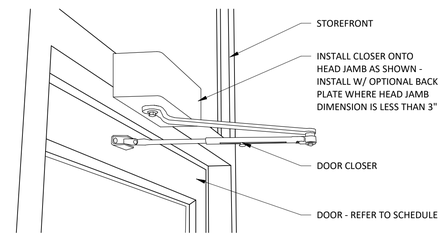
CUSTOM WOOD PULL



DOOR NOTES

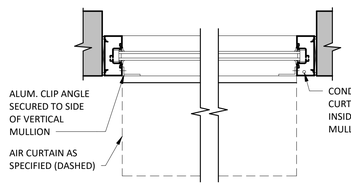
1.	ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2.	LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3.	THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4.	ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5.	SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6.	MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7.	ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8.	THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9.	ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10.	ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11.	ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

DOOR CLOSER

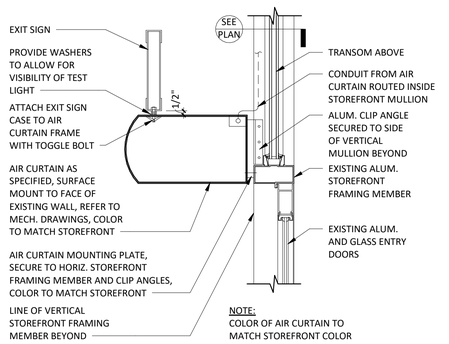


TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

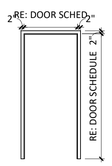
AIR CURTAIN DETAIL



TRANSOM PLAN DETAIL

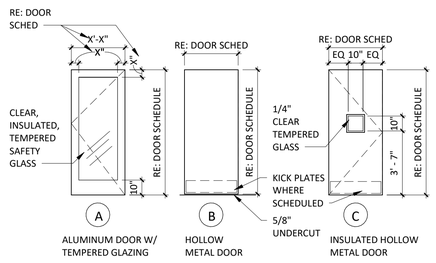


DOOR FRAMES



NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

DOOR TYPES



Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
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185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 24026

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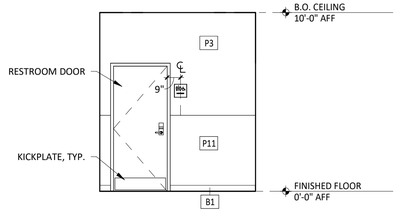
DOOR & HARDWARE SCHEDULE

A601.00

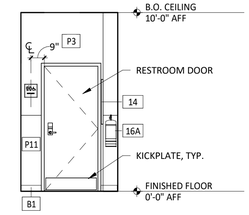
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GENERAL NOTES

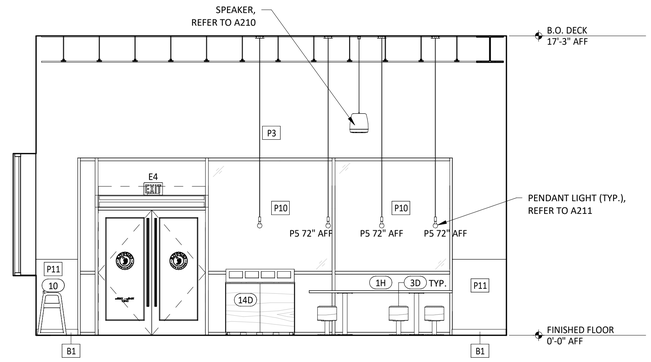
1.	REFER TO EXTERIOR ELEVATIONS THIS SHEET FOR EXTERIOR SIGNAGE LOCATIONS, SIZES & DESCRIPTIONS.
2.	EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.



7 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"

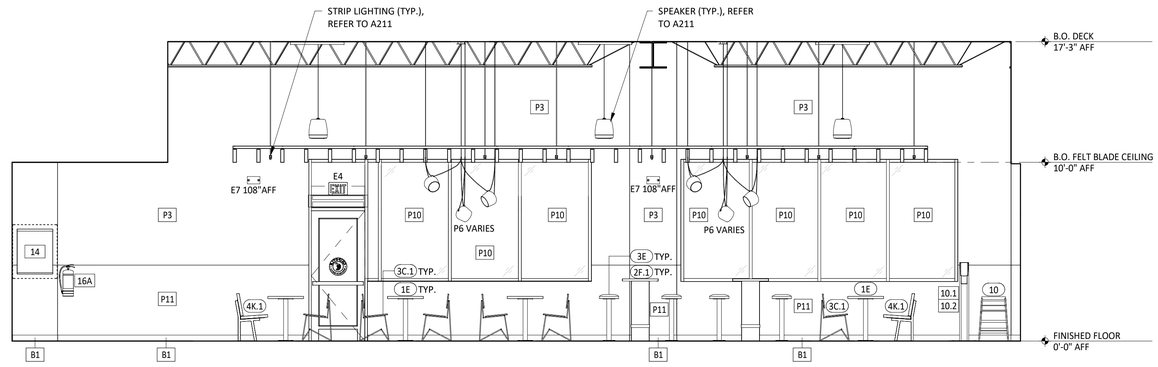


6 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"

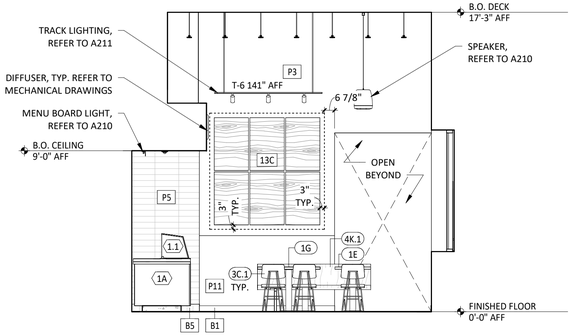


5 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"

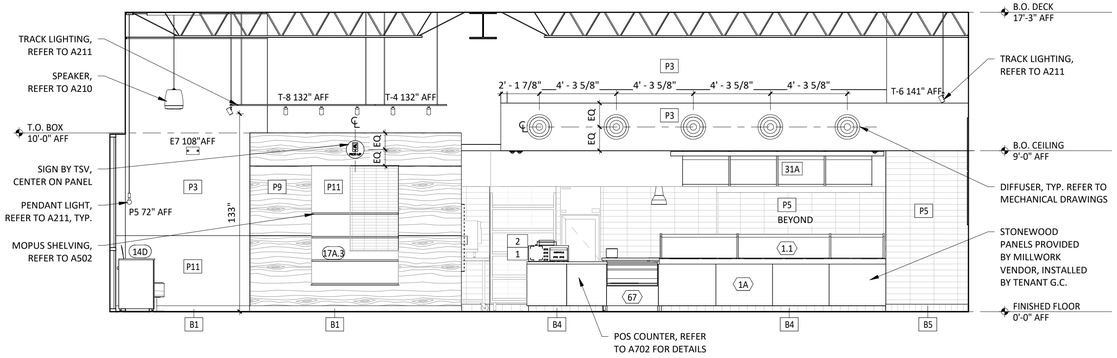
4 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"



3 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"



2 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"



1 / A701 **INT. ELEV. - DINING**
1/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
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Drawn: M.T.W.
Checked: J.C.C.

Project No.
24026

Contents:

ELEVATIONS - INTERIOR DINING

A701.00

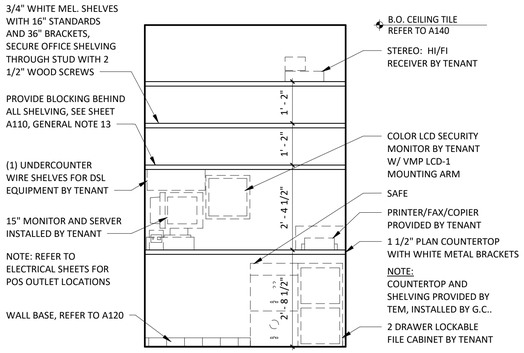
DOB JOB#: S01113212-I1

ELEVATION LEGEND

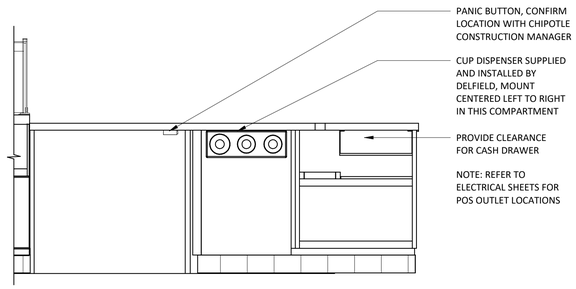
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

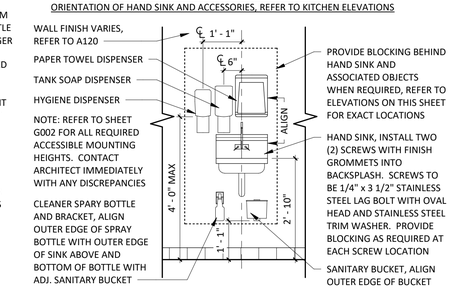


11 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"

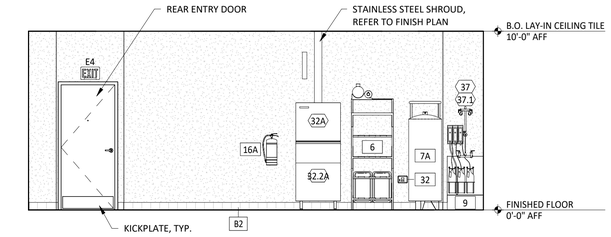


10 A702 **TYP. ELEV - POS**
3/4" = 1'-0"

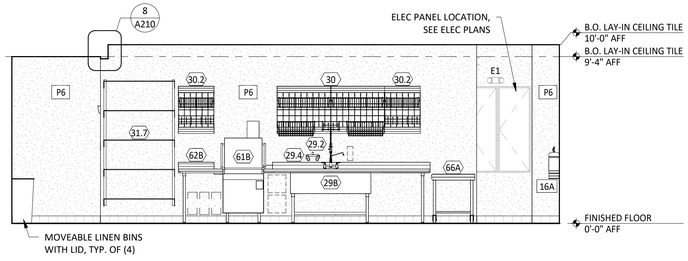
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



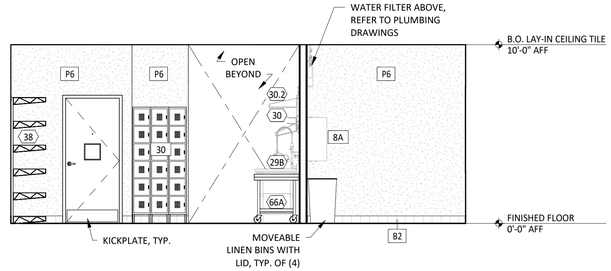
9 A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



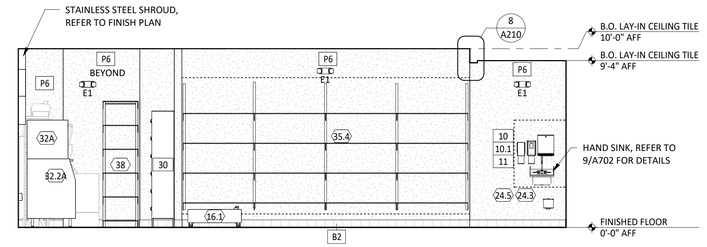
8 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



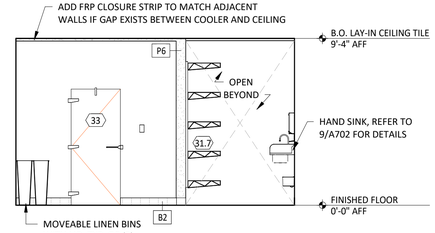
7 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



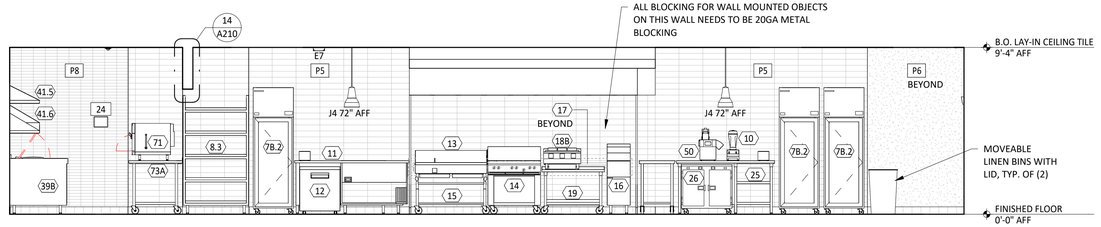
6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



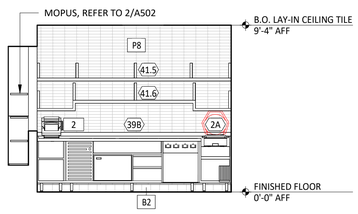
5 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



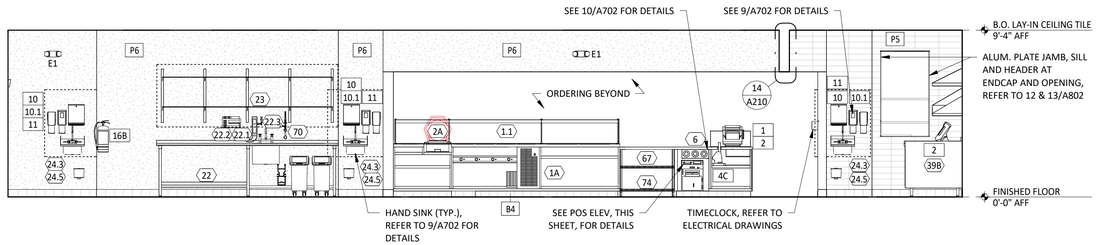
4 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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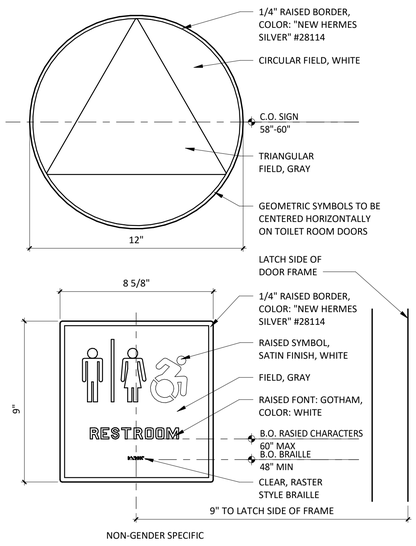
Project No.: 24026

Contents:

ELEVATIONS - INTERIOR KITCHEN

A702.00

DOB JOB#: S01113212-I1



10 / A710 **TYPICAL WASHROOM SIGNAGE**
3" = 1'-0"

RESTROOM ACCESSORY SCHEDULE

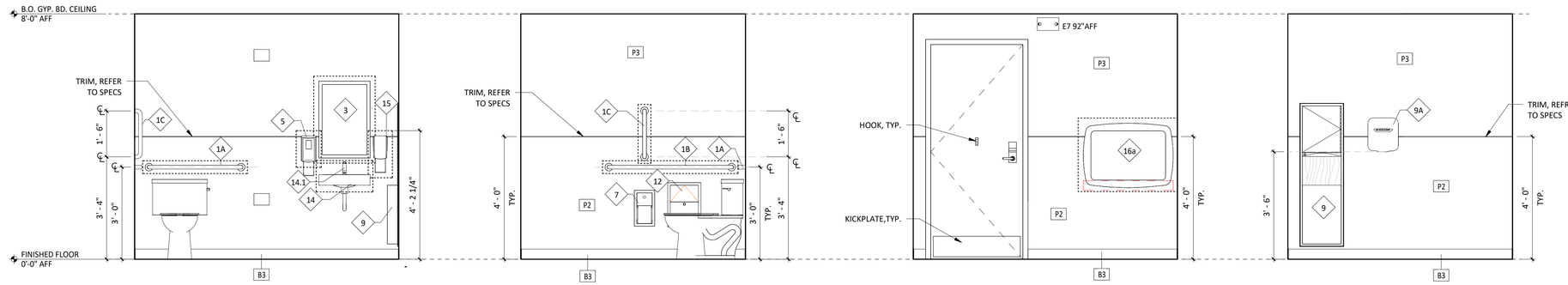
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY ELEC	UTILITY GAS	UTILITY WATER	UTILITY SEWER	MOUNTING HEIGHT	REMARKS
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1B	Grab Bar - 42in	ASI	3501-42	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
3	Vandal Proof Mirror	Sentry Mirror	20" x 30" Vandal Proof Mirror	2	TS	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
9A	Hand Dryer	Excel Dryer	Wall Guard White	2			•					
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
14	Restroom Hand Sink	Kohler	K-2084	2	GC	GC				•	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC			•			To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	ES8	3	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16a	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB200-05	2	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

GENERAL NOTES

1.	ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
2.	REFER TO A802 FOR TILE NOTES.
3.	ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4.	REFER TO A120 FOR FINISH SCHEDULE.
5	REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

ELEVATION LEGEND

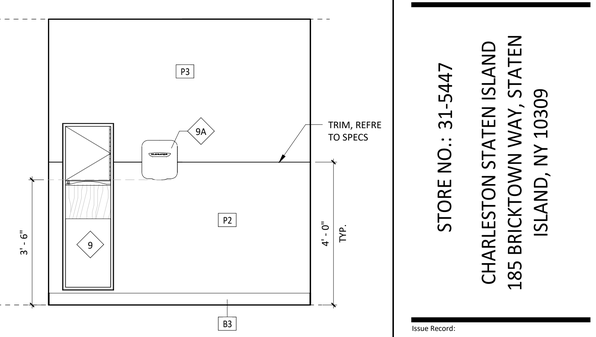
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



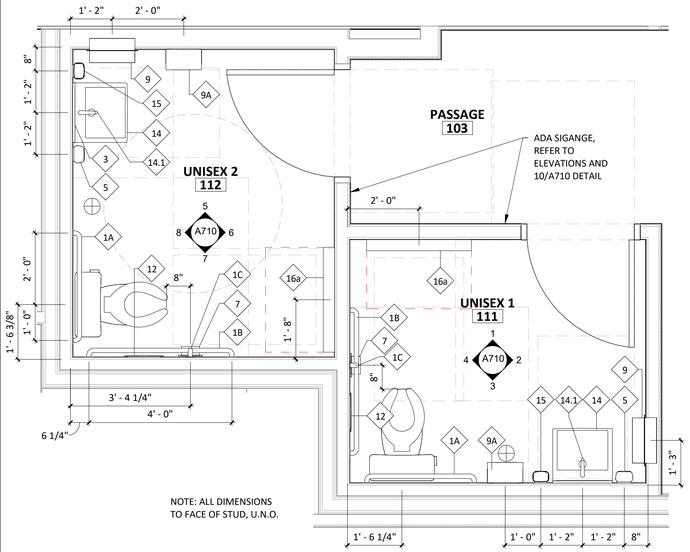
8 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"

7 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"

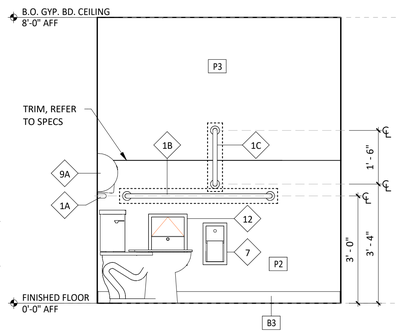
6 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"



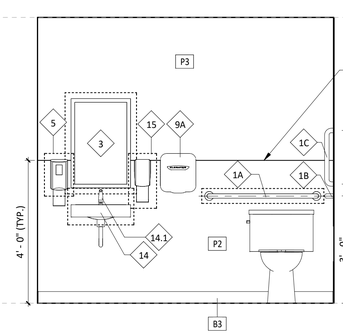
5 / A710 **UNISEX 2 RESTROOM - ELEV**
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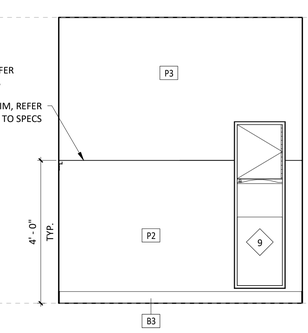
9 / A710 **ARCHITECTURAL FLOOR PLAN**
1/2" = 1'-0"



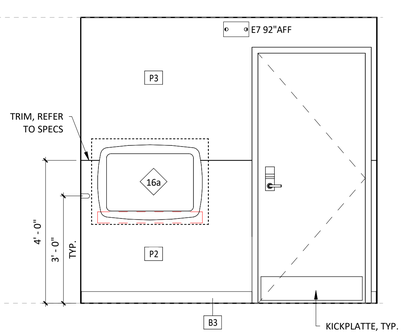
4 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



3 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



2 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



1 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"

Consultant:

HBC

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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 24026

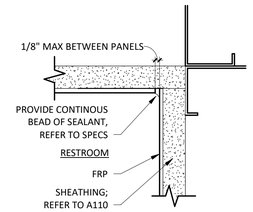
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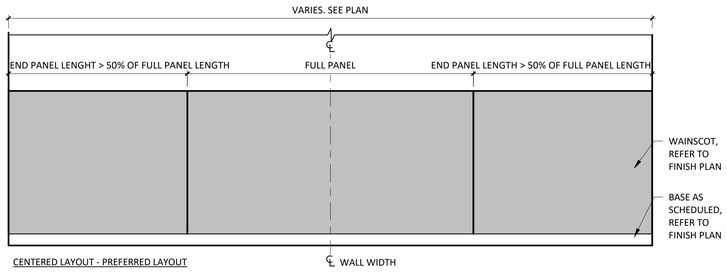
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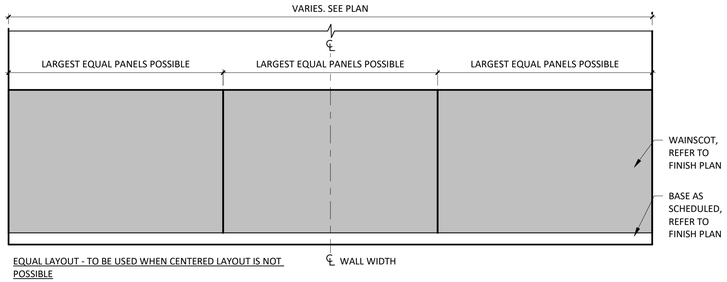
DOB JOB#: S01113212-I1

NOTE: ALL CONCEALED WOOD TO BE FRT RATED

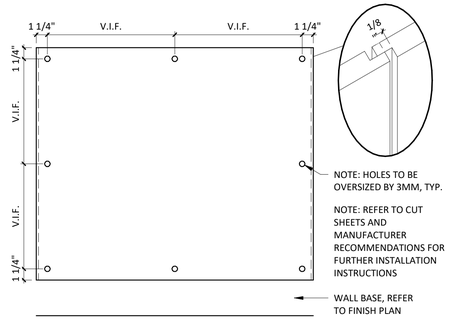


20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"

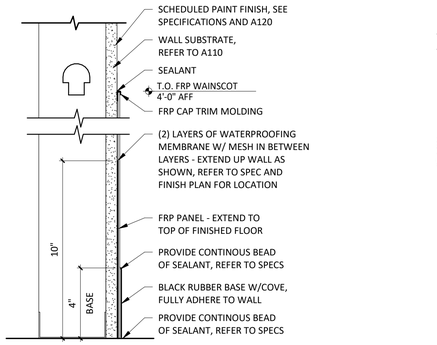




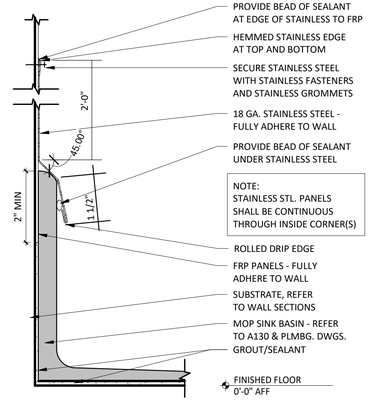
16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"



19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"

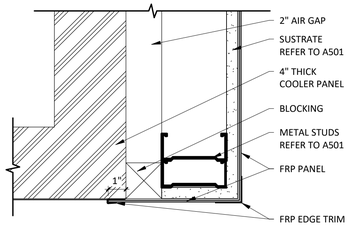


18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"

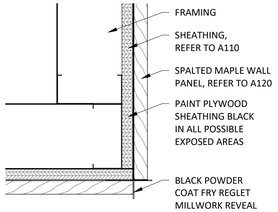


17 A801 **SECTION @ MOP SINK**
6" = 1'-0"

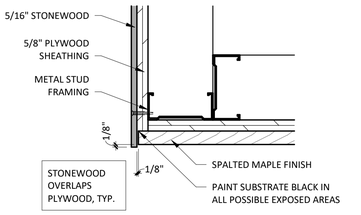
15 A801 **NOT USED**
N.T.S.



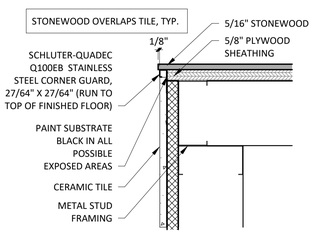
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"

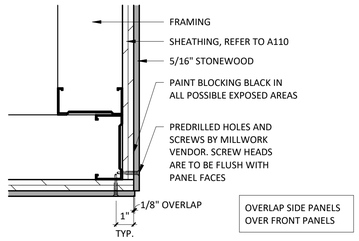


12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"

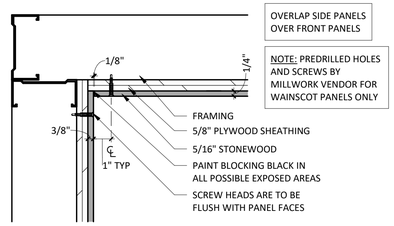


11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"

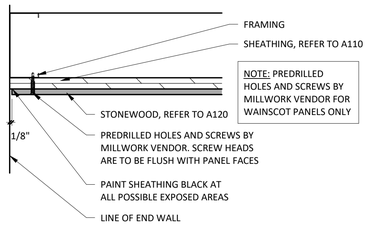
10 A801 **NOT USED**
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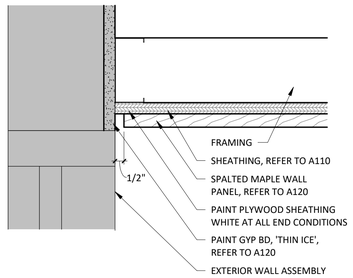
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



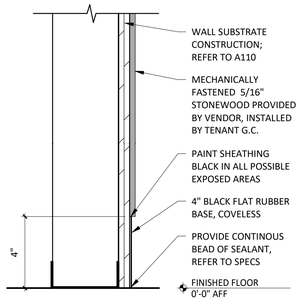
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



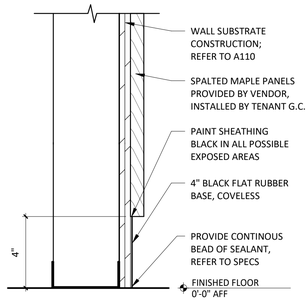
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



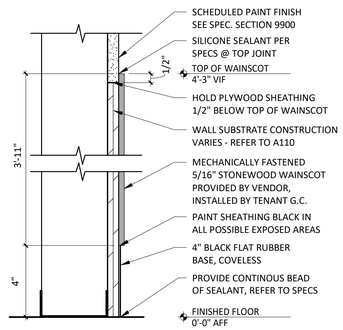
6 A801 **PLAN - WOOD END CONDITION**
3" = 1'-0"



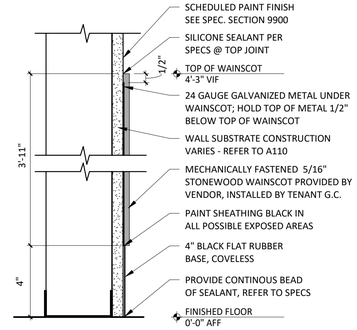
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



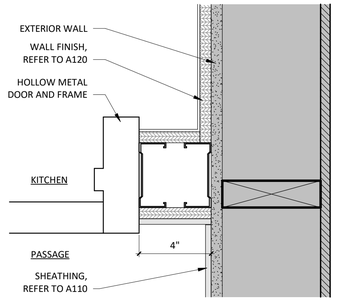
4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



1 A801 **PLAN - DOOR JAMB**
3" = 1'-0"

Consultant:

HBC

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Revisions:

Drawn: M.T.W. Checked: J.C.C.

Project No.: 24026

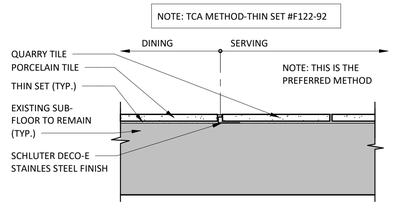
Contents: FINISH DETAILS

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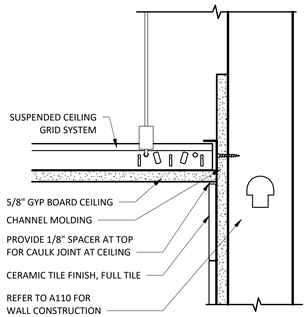
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GENERAL NOTES

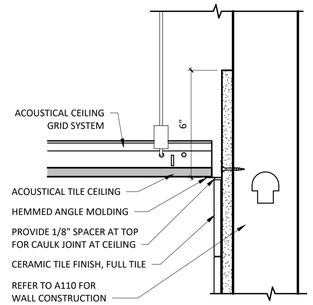
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



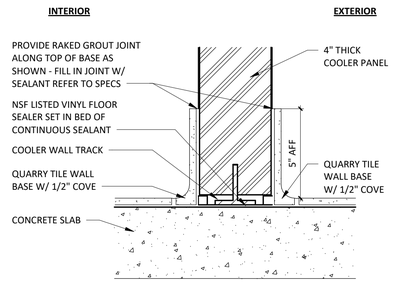
22 A802 **SMOOTH FLOOR TRANSITION**
3" = 1'-0"



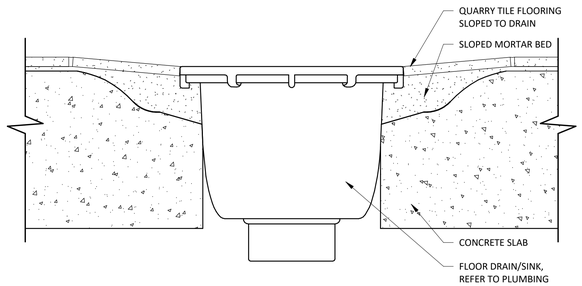
21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"



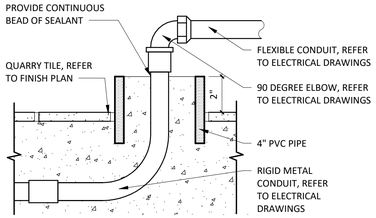
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



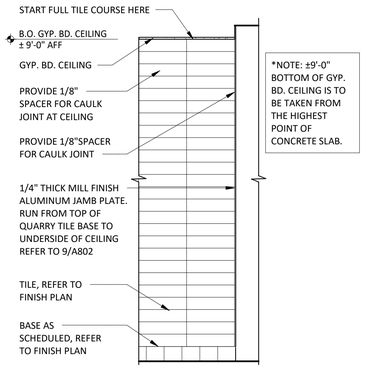
19 A802 **COOLER WALL @ QT**
3" = 1'-0"



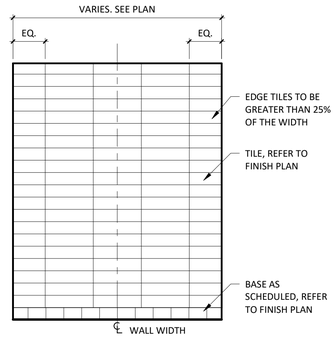
18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"



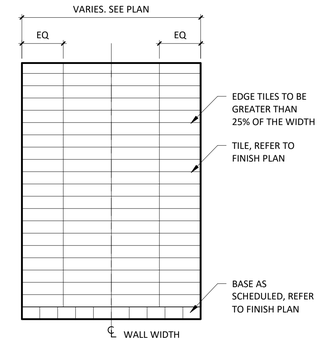
17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"



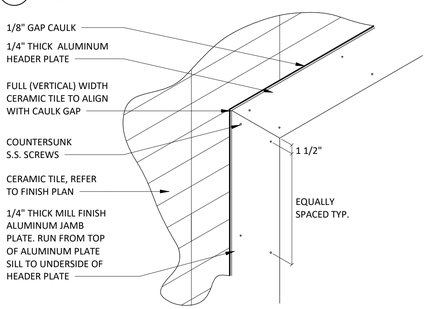
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



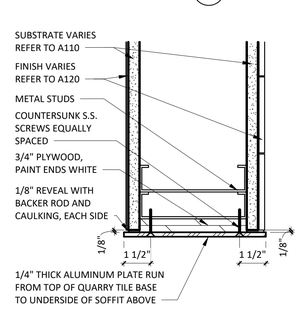
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



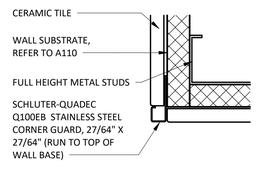
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



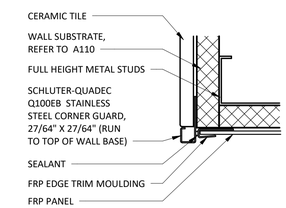
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



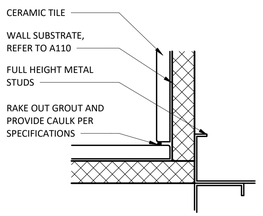
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



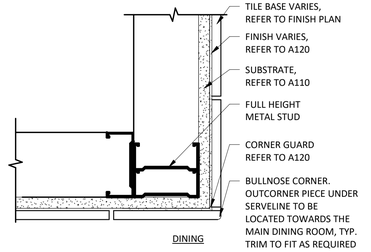
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



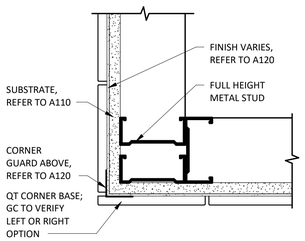
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



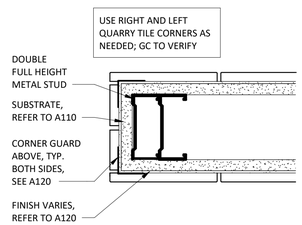
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



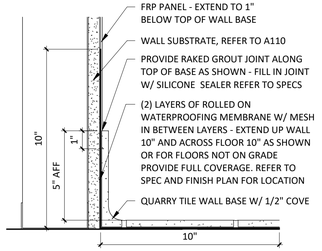
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



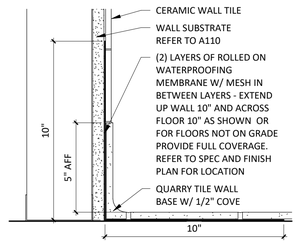
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



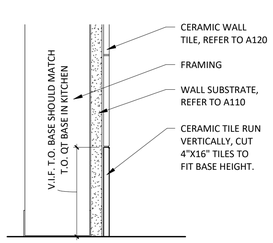
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



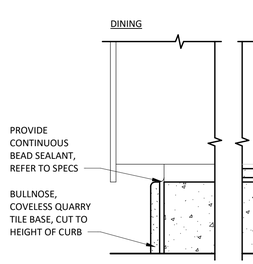
5 A802 **QT BASE @ FRP**
3" = 1'-0"



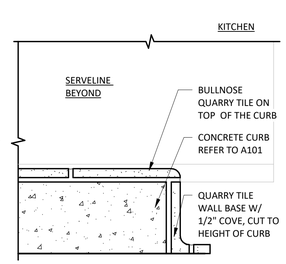
4 A802 **QT BASE @ CERAMIC TILE**
3" = 1'-0"



3 A802 **CERAMIC TILE BASE**
3" = 1'-0"



2 A802 **QT @ CURB**
3" = 1'-0"



1 A802 **QT @ CURB**
3" = 1'-0"

Consultant:

HBC

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CHARLESTON STATEN ISLAND
185 BRICKTOWN WAY, STATEN ISLAND, NY 10309

Issue Record:

08/30/2024	LLD REVIEW SET
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06/21/2023	BID SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.
24026

Contents:
TILE DETAILS

A802.00

DOB JOB#: S01113212-I1

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 24023_Chipotle_Charleston_Staten Island, NY
Project Type: Alteration

Construction Site:
185 Bricktown Way
Staten Island, New York 10309

Owner/Agent:

Designer/Contractor:
Michael Wilson
Polaris Consulting Engineers
214 W. Main Street
Moorestown, New Jersey 08057
856-778-5400

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Entire Space (Dining: Cafeteria/Fast Food)	2350	0.66	1551
		Total Allowed Watts =	1551

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entire Space (Dining: Cafeteria/Fast Food, 2350 sq.ft.)				
LED: A1: 2x2: Other:	1	10	30	300
LED: B1: 6" Recessed: Other:	1	7	17	119
LED: B2: 6" Recessed: Other:	1	26	17	442
LED: B3: 6" Recessed: Other:	1	2	12	24
LED: C0: 1' Linear: Other:	1	2	5	10
LED: C2: 3' Linear: Other:	1	18	12	216
LED: C3: 4' Linear: Other:	1	5	15	75
LED: H1: Hood Light: Other: Exemption:Lighting integral to equipment	1	8	15	Exempt
LED: C1: 2' Linear: Other:	1	9	9	81
LED: J4: Decorative Pendant: Other:	1	2	9	18
LED: P5: Pendant: Other:	1	4	5	20
LED: P6: Decorative Pendant: Other:	1	2	30	60
LED: W1: WIC Light: Other: Exemption:Lighting integral to equipment	1	4	29	Exempt
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	120	120
			Total Proposed Watts =	1545

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

ENERGY COMPLIANCE STATEMENT:
"TO THE BEST OF MY KNOWLEDGE AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH CHAPTER C4 OF THE 2020 NYCECC"

Consultant:

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ENERGY COMPLIANCE FORMS

EN101.00

DOB JOB#: S01113212-I1

ALL ARM-OVERS TO SPRINKLERS ARE 1" DIAMETER

SHEET LIST

SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK

SP-100.00 FIRE SPRINKLER PLAN - NEW WORK

SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM

SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS

SP-300.00 FEMA MAP

FIRE SPRINKLER REMOVAL NOTES

1. FIRE SPRINKLER CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE:
   - SHUT DOWN AND DRAINING OF EXISTING SYSTEM.
   - REMOVAL OF EXISTING PIPING, HANGERS, ETC. WHERE INDICATED ON THE PLANS.
2. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPE OR FITTINGS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THEIR WORK AT NO COST TO THE OWNER.

FIRE SPRINKLER COUNT

REMOVED FIRE SPRINKLERS - 29
NEW FIRE SPRINKLERS - 34

DOB/ FDNY PERMIT APPLICATION PROCESS NOTE

1. OWNER SHALL NOTIFY FDNY OF SPRINKLER DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

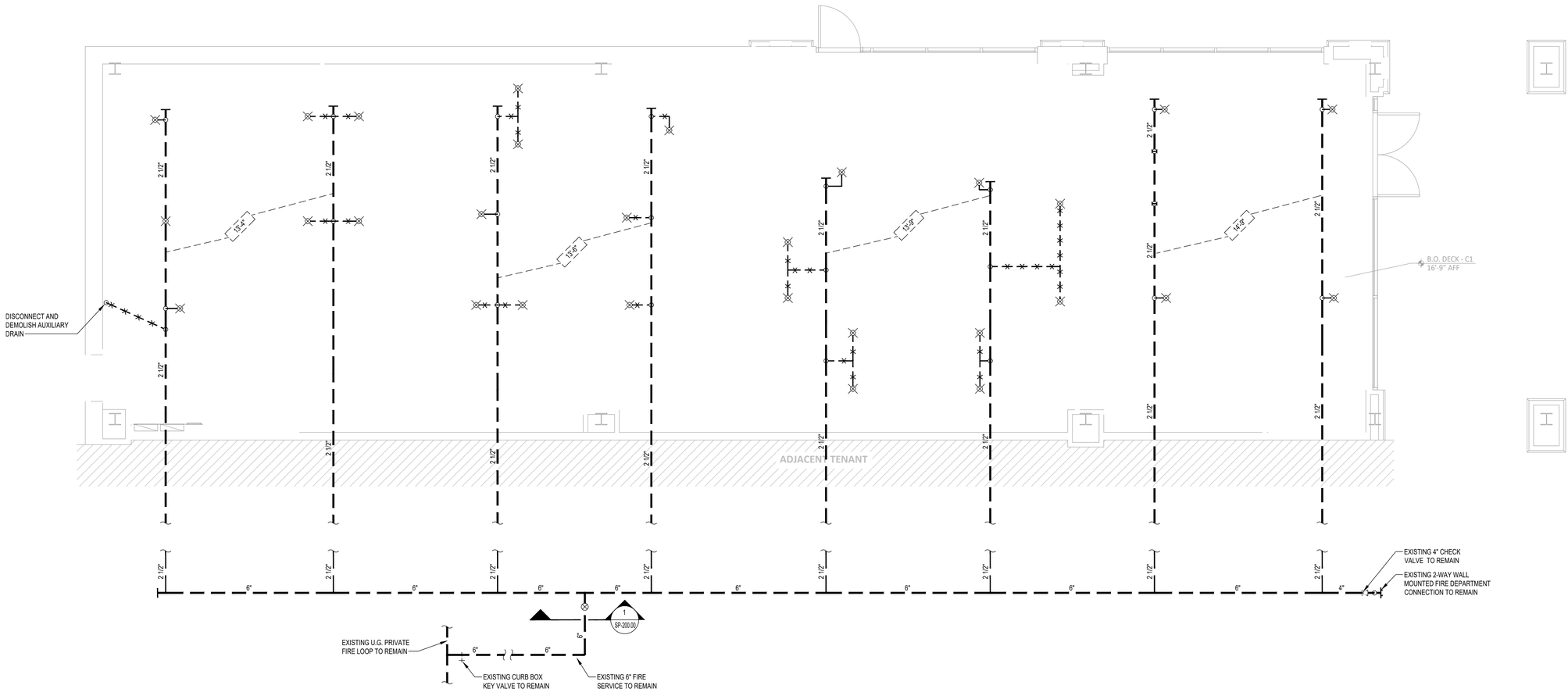
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CONSTRUCTION NOTES

1. DURING CONSTRUCTION, FIRE SPRINKLER CONTRACTOR SHALL KEEP FIRE SPRINKLER SYSTEM OUT OF CONSTRUCTION AREA FULLY CHARGED AND OPERATIONAL DURING BUSINESS HOURS.
2. COORDINATE REQUIRED SHUT-DOWNS OF THE EXISTING SYSTEM WITH THE OWNER, INSURANCE UNDERWRITER, AND FIRE DEPARTMENT.
3. PROVIDE TEMPORARY VALVES, PIPING AND FITTINGS AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT TENANT'S FIRE SPRINKLER SYSTEM DURING CONSTRUCTION.

SYMBOL KEY

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- NEW PIPING
- CONNECT TO EXISTING PIPE AND/OR FITTING
- EXISTING SPRINKLER AND ARM-OVER TO BE REMOVED BACK TO OUTLET ON BRANCH LINE UNLESS SHOWN OTHERWISE
- NEW BRASS UPRIGHT — ORD/5.6/QR
- NEW CONCEALED WITH WHITE COVERPLATE — ORD/5.6/QR
- NEW CHROME RECESSED — INT/5.6/QR
- NEW DRY CHROME PENDENT ON 2-PIECE TELESCOPING ESCUTCHEON WITH FREEZER BOOT — INT/5.6/QR
- CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
- 104 — APPROXIMATE CENTER LINE ELEVATION OF EXISTING PIPE ABOVE THE FINISHED FLOOR
- 100 — APPROXIMATE CENTER LINE ELEVATION OF NEW PIPE ABOVE THE FINISHED FLOOR
- RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
- NOT IN SCOPE



FIRE SPRINKLER PLAN - REMOVAL WORK

SCALE: 1/4" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

DOB NOW APPLICATION #S01113212-S3

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NEW YORK, NEW YORK 10018
212-216-9596
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ENGINEER OF RECORD:
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CORPORATE CERTIFICATE OF AUTHORITY NO. 41955

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12-09-2025
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SC	WMA

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SPD-100.00

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SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS

SP-300.00 FEMA MAP

HYDRAULIC NOTE

THE PROPOSED HYDRAULIC DEMAND OF THE SYSTEM IS EQUAL TO, OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM.

FIRE SPRINKLER COUNT

REMOVED FIRE SPRINKLERS - 29
NEW FIRE SPRINKLERS - 34

DOB/ FDNY PERMIT APPLICATION PROCESS NOTE

1. OWNER SHALL NOTIFY FDNY OF SPRINKLER DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

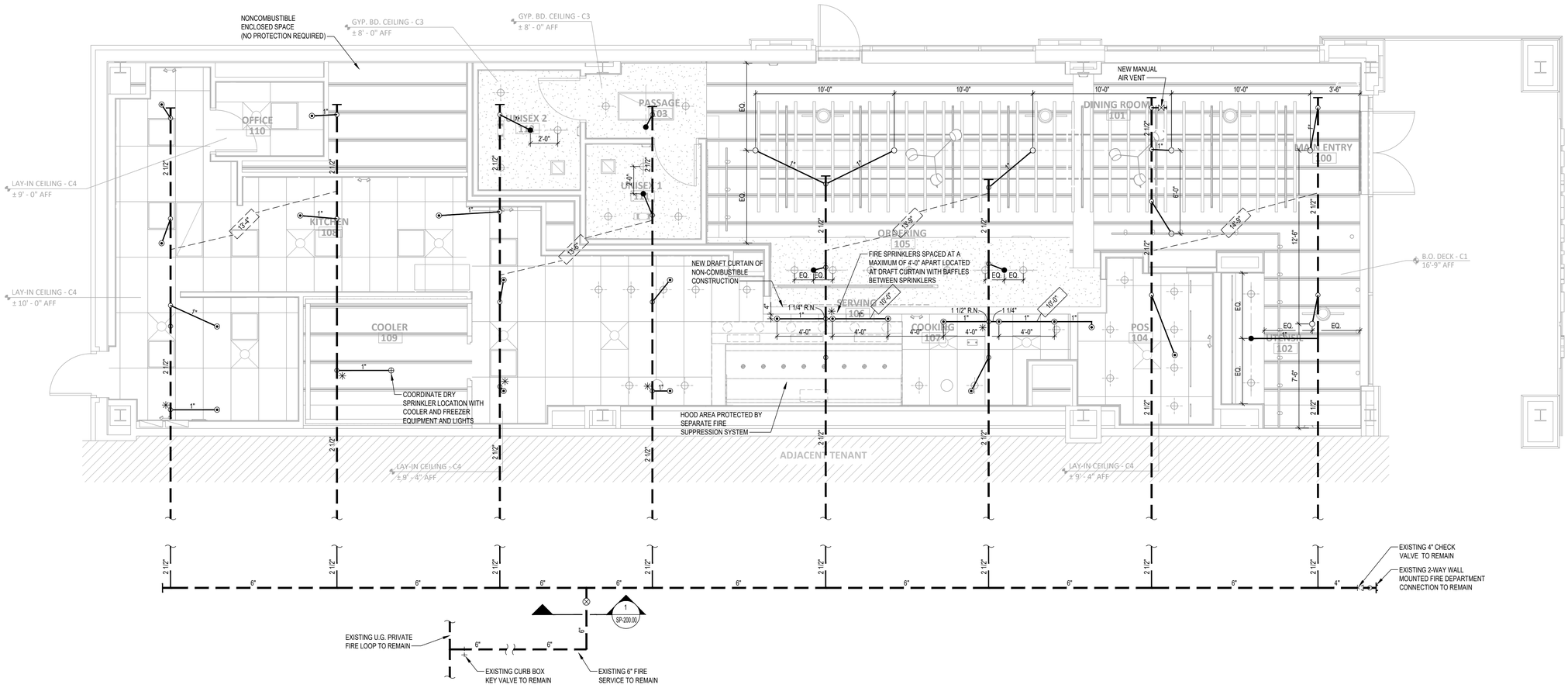
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3. PROVIDE TEMPORARY VALVES, PIPING AND FITTINGS AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT TENANT'S FIRE SPRINKLER SYSTEM DURING CONSTRUCTION.

SYMBOL KEY

	EXISTING PIPING TO REMAIN	
	EXISTING PIPING TO BE REMOVED	
	NEW PIPING	
	CONNECT TO EXISTING PIPE AND/OR FITTING	
	EXISTING SPRINKLER AND ARM-OVER TO BE REMOVED BACK TO OUTLET ON BRANCH LINE UNLESS SHOWN OTHERWISE	
○	NEW BRASS UPRIGHT	ORD/5.6/QR
●	NEW CONCEALED WITH WHITE COVERPLATE	ORD/5.6/QR
◉	NEW CHROME RECESSED	INT/5.6/QR
⊕	NEW DRY CHROME PENDENT ON 2-PIECE TELESCOPING ESCUTCHEON WITH FREEZER BOOT	INT/5.6/QR
	CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.	
104'	APPROXIMATE CENTER LINE ELEVATION OF EXISTING PIPE ABOVE THE FINISHED FLOOR	
105'	APPROXIMATE CENTER LINE ELEVATION OF NEW PIPE ABOVE THE FINISHED FLOOR	
	RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT	
	NOT IN SCOPE	



FIRE SPRINKLER PLAN - NEW WORK

SCALE: 1/4" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

DOB NOW APPLICATION #S01113212-S3

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24026

Contents:

FIRE SPRINKLER PLAN - NEW WORK

SP-100.00

FIRE SPRINKLER SPECIFICATION

SECTION 15300 - FIRE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. RELATED DOCUMENTS: CONDITIONS OF THE CONTRACT, DIVISION 1 - GENERAL REQUIREMENTS AND DRAWINGS APPLY TO THE WORK OF THIS SECTION.

1.02 DESCRIPTION OF WORK

A. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TESTING AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL REMODELED FIRE PROTECTION SYSTEM FOR THE PROPOSED CHIPOTLE SPACE. AS HEREINAFTER DESCRIBED AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL BEGIN AT THE EXISTING FIRE SPRINKLER SYSTEM AND SHALL INCLUDE THE FOLLOWING:

1. REMODELED WET PIPE FIRE SPRINKLER SYSTEM FOR PROPOSED CHIPOTLE.

2. COORDINATION OF WORK AND SCHEDULES WITH OTHER TRADES.

C. INTERIOR WORK - PROVIDE THE FOLLOWING:

1. OVERHEAD PIPE, FITTINGS, HANGERS AND SPRINKLERS.

2. TEST CONNECTION, MAIN DRAIN AND AUXILIARY DRAIN.

3. AIR VENT.

D. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATION SHALL DESCRIBE AND PROVIDE FOR A WORKING INSTALLATION COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

1.03 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS:

1. NEW YORK CITY BUILDING CODE - 2022 EDITION
2. NEW YORK CITY FIRE CODE - 2022 EDITION
3. NFPA 13, SPRINKLER SYSTEMS - 2016 EDITION

1.04 SYSTEM DESCRIPTION

A. REMODELED FIRE SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE STRICTLY PER THIS SPECIFICATION.

B. REMODELED FIRE SPRINKLER SYSTEM TO PROVIDE FIRE PROTECTION FOR THE AREAS INDICATED ON THE ENGINEERING DRAWINGS.

C. INTERFACE REMODELED FIRE SPRINKLER SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEMS.

D. RESTAURANT SEATING AREAS, RESTROOMS AND OFFICE AREAS (LIGHT HAZARD WET PIPE FIRE SPRINKLER SYSTEM):

- TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 5.6 / QR

E. RESTAURANT SERVICE AREAS, WATER CURTAIN, ELECTRICAL ROOMS, MECHANICAL ROOMS, AND STORAGE AREAS (ORDINARY HAZARD GROUP 2 WET PIPE FIRE SPRINKLER SYSTEM):

- TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - VARIES / 5.6 / QR

F. SPRINKLER SPACING SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS.

1. ACOUSTICAL TILE - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. NOT MORE THAN A 3 IN. RADIUS TOLERANCE ABOUT THE POINT IDENTIFIED BY DIMENSION WILL BE ACCEPTED. WHERE ROWS OF SPRINKLERS ARE PROVIDED WITHIN THE SAME CEILING PLANE, ANY PART OF THE TOLERANCE USED FOR ONE SPRINKLER SHALL BE THE SAME FOR ALL OTHERS IN THAT SAME ROW.

2. HARD CEILINGS - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. SPRINKLERS SHALL BE IN LINE WITH LIGHT FIXTURES AND OTHER SPRINKLERS WHERE INDICATED ON THE DRAWINGS. COORDINATE CLOSELY WITH THE ELECTRICAL CONTRACTOR.

3. EXPOSED CEILING AREAS - LOCATED SPRINKLERS WHERE SHOWN ON THE DRAWINGS.

G. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.

H. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN MAIN OR BRANCH LINE PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE ENGINEERING DRAWINGS.

I. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.

J. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE ENGINEERING DRAWINGS WILL BE USED.

1.05 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS:

1. INSTALLER'S RESPONSIBILITIES INCLUDE PREPARING SHOP DRAWING SUBMITTAL, FABRICATING AND INSTALLING SPRINKLER SYSTEMS. BASE CALCULATIONS ON WATER SUPPLY COORDINATES PROVIDED HEREIN.

B. INSTALLER SHALL BE STATE AND LOCALLY LICENSED.

C. EQUIPMENT AND COMPONENTS NOT SPECIFICALLY SPECIFIED SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. FOR FIRE PROTECTION SYSTEMS INSTALLATION.

D. ALL FIRE SPRINKLER SYSTEM COMPONENTS SHALL BE INSTALLED FREE OF ANY RUST, CORROSION OR VISIBLE DAMAGE. ALL ITEMS NOT COMPLYING WITH THIS REQUIREMENT SHALL BE REPLACED WITHOUT COST TO THE OWNER.

1.06 PROJECT CONDITIONS

A. INTERRUPTION OF EXISTING SPRINKLER SERVICE: DO NOT INTERRUPT SPRINKLER SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SPRINKLER SERVICE ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY CONSTRUCTION MANAGER IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE.

2. DO NOT PROCEED WITH INTERRUPTION OF SPRINKLER SERVICE WITHOUT CONSTRUCTION MANAGER'S WRITTEN PERMISSION.

FIRE SPRINKLER SPECIFICATION (CONT.)

3. PROVIDE TEMPORARY PIPING, FITTINGS AND VALVES AS REQUIRED TO MAINTAIN SPRINKLER SERVICE.

1.07 REGULATORY REQUIREMENTS

A. ALL WORK SHALL MEET THE REQUIREMENTS OF SECTION 1.03.

B. THE FIRE SPRINKLER CONTRACTOR SHALL NOT PURSUE ANY APPROVALS OR INTERPRETATIONS OF CCI'S CONSTRUCTION DOCUMENTS EXCEPT THROUGH CCI.

C. SPRINKLER PIPING SHALL NOT BE CONCEALED WHERE IT IS INACCESSIBLE UNLESS IT IS FIRST INSPECTED AND ACCEPTED BY A REPRESENTATIVE OF THE AUTHORITY HAVING JURISDICTION.

D. ANY WORK PERFORMED PRIOR TO THE SATISFACTORY REVIEW BY CCI AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER WILL BE SOLELY AT THE FIRE SPRINKLER CONTRACTOR'S RISK.

E. THE SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE HAS BEEN OBTAINED.

1.08 SUBMITTALS

A. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE ENGINEERING DRAWINGS ARE 100% CAD. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY. UTILIZATION OF THESE DOCUMENTS FOR THE DEVELOPMENT OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE FIRE SPRINKLER CONTRACTOR FROM ANY OF HIS RESPONSIBILITIES REQUIRED HEREIN.

B. SUBMIT THE FOLLOWING:

1. SHOP DRAWINGS. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF EACH DRAWING. DRAWINGS WILL BE RETURNED IN THE SAME FORMAT RECEIVED. SUBMITTAL MUST BE COMPREHENSIVE OF ENTIRE PROJECT, COMPLETE IN ALL DETAIL AND THE SAME SCALE AS THE ENGINEERING DRAWINGS.

2. MANUFACTURER'S LITERATURE ON ALL SYSTEM EQUIPMENT. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF THE LITERATURE. LITERATURE WILL BE RETURN IN THE SAME FORMAT AS RECEIVED. LITERATURE SHALL CLEARLY IDENTIFY EXACTLY WHAT COMPONENTS ARE BEING PROVIDED WHICH SHALL INCLUDE: FINISH, SIZE, TYPE, OPTIONS, ETC. LITERATURE WHICH IS NOT CLEARLY IDENTIFIED WILL BE REJECTED.

C. CCI WILL REVIEW THIS SUBMITTAL FOR CONSISTENCY WITH CCI'S CONSTRUCTION DOCUMENTS.

D. AFTER THE SATISFACTORY REVIEW BY CCI, PROVIDE SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER FOR APPROVAL.

E. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING, IN WRITING, TO ANY COMMENTS FROM THE AUTHORITY HAVING JURISDICTION OR THE INSURANCE UNDERWRITER WITHIN TEN (10) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS. COPIES OF THE RESPONSE SHALL BE SENT TO THE GENERAL CONTRACTOR AND CCI.

1.09 AS-BUILT DRAWINGS

A. PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.10 OPERATION AND MAINTENANCE DATA

A. PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS TO THE OWNER IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.11 WARRANTY

A. REPAIR ALL DEFECTIVE WORKMANSHIP OR REPLACE ALL DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. WORKMANSHIP OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.

PART 2 - PRODUCTS

2.01 PIPING

A. UNDERGROUND PIPING: NONE.

B. OVERHEAD PIPE: PER LOCAL REQUIREMENTS AND NFPA 13. ALL PIPE SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) EQUAL TO OR GREATER THAN 1.00. REFER TO THE CURRENT UL FIRE PROTECTION EQUIPMENT DIRECTORY - STEEL SPRINKLER PIPE FOR ACCEPTABLE MANUFACTURERS, SIZES, AND JOINING METHODS.

C. ALL NEW ARM-OVERS SHALL HAVE HYDRAULIC CHARACTERISTICS EQUAL TO OR GREATER THAN SCHEDULE 40 PIPE.

2.02 JOINING OF PIPE AND FITTINGS

A. ALL PIPE SHALL BE JOINED IN ACCORDANCE WITH NFPA 13 AND MANUFACTURER'S RECOMMENDATIONS.

B. FITTINGS SHALL BE 175 PSI SCREWED OR FLANGED BLACK CAST IRON OR APPROVED EQUAL SUCH AS MECHANICAL GROOVED, PLAIN END OR WELDED CONNECTIONS. WHERE GROOVED FITTINGS AND COUPLINGS ARE USED TOGETHER, THEY SHALL BE OF THE SAME MANUFACTURER.

C. BUSHINGS SHALL NOT BE USED.

D. FLEXIBLE COUPLINGS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS.

2.03 HANGERS AND SLEEVES

A. SLEEVES SHALL BE SET FOR ALL PIPES PASSING THROUGH CONCRETE FLOORS, FOUNDATIONS AND MASONRY WALLS.

B. PROVIDE PRIMED ESCUTCHEON PLATES AT ALL WALL PENETRATIONS WHERE THE HOLE WOULD OTHERWISE BE EXPOSED TO VIEW.

C. ALL HANGERS TO BE OF APPROVED MATERIALS AND SPACED IN ACCORDANCE WITH NFPA 13 AND THE PIPING MANUFACTURER'S SPECIFICATIONS.

2.04 VALVES

A. INTERIOR VALVES:

1. GLOBE VALVE: BRONZE THREADED; RENEWABLE COMPOSITION DISC; 175 PSI RATED WORKING PRESSURE.

a. ACCEPTABLE MANUFACTURERS: CRANE, MILWAUKEE, NIBCO, STOCKHAM OR APPROVED EQUAL.

FIRE SPRINKLER SPECIFICATION (CONT.)

2.05 SPRINKLERS

A. TYPES:

1. CHROME RECESSED - GLASS BULB QUICK RESPONSE RECESSED SPRINKLER WITH POLISHED CHROME 2-PIECE ESCUTCHEON.

2. WHITE CONCEALED PENDENT - GLASS BULB QUICK RESPONSE CONCEALED SPRINKLER WITH WHITE ESCUTCHEON.

3. BRASS UPRIGHT - GLASS BULB QUICK RESPONSE UPRIGHT SPRINKLER.

4. CHROME DRY PENDENT - GLASS BULB QUICK RESPONSE DRY PENDENT SPRINKLER WITH POLISHED CHROME 2-PIECE TELESCOPING ESCUTCHEON WITH FREEZER BOOT.

B. ACCEPTABLE MANUFACTURERS: GLOBE, RELIABLE, TYCO, VICTAULIC AND VIKING.

C. ONLY SPRINKLERS MANUFACTURED AFTER JANUARY 1, 2024 WILL BE ACCEPTED FOR USE.

D. ONLY SPRINKLERS MANUFACTURED UTILIZING BELLEVILLE SPRING SEALS WILL BE ACCEPTABLE FOR USE.

E. PROVIDE AT THE FIRE SPRINKLER ROOM SIX (6) HEADS IN THE SPARE SPRINKLER CABINET STOCKED WITH SPRINKLERS AND ESCUTCHEON ASSEMBLIES PROPORTIONATE TO THOSE PROVIDED IN THE BUILDING AND ALL NECESSARY SPRINKLER WRENCHES.

F. IF FLEXHEAD, OR A SIMILAR PRODUCT, IS USED, HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO INCLUDE THE ADDITIONAL FRICTION LOSS, AND PIPE SIZES ADJUSTED IF REQUIRED AT NO ADDITIONAL COST.

G. THE DRY PENDENT SPRINKLERS PROTECTING THE WALK-IN COOLER AND FREEZER SHALL USE THE TYCO DRY SPRINKLER BOOT (DSB-2).

2.06 SIGNS

A. APPROVED ENAMELED METAL SIGNS SHALL BE SECURELY ATTACHED AT MAIN DRAIN, AUXILIARY DRAIN ALARM TEST CONNECTION AND CONTROL VALVES.

B. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING HYDRAULIC DESIGN INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACE IN THE FIRE SPRINKLER ROOM. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

C. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING GENERAL INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACED IN THE FIRE SPRINKLER ROOM. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

PART 3 - EXECUTION

3.01 COORDINATION WITH OTHER TRADES

A. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCE.

3.02 PAINTING AND PATCHING

A. PAINTING OF SPRINKLER PIPING IS NOT INCLUDED IN THIS CONTRACT. ALL SPRINKLER PIPING SHALL BE THOROUGHLY CLEANED, REMOVING ALL DIRT, OIL, ETC. AND MADE READY TO RECEIVE PAINT IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT.

B. HOLES IN WALLS OR FLOORS CUT DURING THE PERFORMANCE OF THIS WORK SHALL BE PATCHED IF THE HOLES CANNOT BE COVERED BY STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE CUTS WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

C. FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES.

3.03 SYSTEM TESTS

A. HYDROSTATICALLY TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13.

B. TEST SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION AND OWNER'S AUTHORIZED AGENT.

C. PRELIMINARY TESTING PROCEDURES SHALL BE CONDUCTED AS MENTIONED ABOVE TO ASSURE PROPER OPERATION WHEN THE FINAL TESTING IS PERFORMED.

D. THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES AS SHOWN IN NFPA 13 MUST BE COMPLETED AND SUBMITTED TO THE ENGINEER BEFORE FINAL ACCEPTANCE MAY BE GIVEN.

E. WHEN THE SYSTEMS ARE INITIALLY COMMISSIONED (FILLED WITH WATER), USE THE MANUAL AIR VENT AND HOSE END ADAPTER AT THE END OF THE SYSTEM, ATTACH A HOSE TO THE EXTERIOR AND OPEN THE VALVE UNTIL WATER IS DISCHARGED THROUGH THE HOSE.

END OF SECTION

SHEET LIST

SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK

SP-100.00 FIRE SPRINKLER PLAN - NEW WORK

SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM

SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS

SP-300.00 FEMA MAP

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

1 SP-200.00 REMODELED FIRE SPRINKLER RISER DIAGRAM

NOT TO SCALE

FIN. FLOOR = 100'-0"

DOB NOW APPLICATION #S01113212-S3

CCI

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09-09-2025

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08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn: SC

Checked: WMA

Project No.
24026

Contents:
FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM

SP-200.00

N.Y.C. DEPARTMENT OF BUILDINGS SPRINKLER NOTES

1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903 &APPENDIX Q OF NYC BUILDING CODE & NFPA 13-2016.
2. CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEM SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 903.1.2 OF NYC BUILDING CODE.
3. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF NYC BUILDING CODE.
4. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.7 OF NYC BUILDING CODE.
5. WHERE THE PROVISIONS OF NYC BUILDING CODE REQUIRE THAT A BUILDING OR PORTION THERE OF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SEC. 903.3.1.1, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q EXCEPT AS PROVIDED IN SEC. 903.3.1.1.1 OF NEW YORK CITY BUILDING CODE.
6. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF NYC BUILDING CODE AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 904.
7. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT. AS PER SECTION 903.1.1.1 OF NEW YORK CITY BUILDING CODE.
8. WHERE ALLOWED IN BUILDINGS OF GROUP R, UP TO & INCLUDING SIX STORIES IN HEIGHT, AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q 903.3.1.2 OF N.Y.C. BUILDING CODE.
9. WHERE AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY NYC BUILDING CODE, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED SEC. 903.3.2 OF NYC BUILDING CODE.
10. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS &TOP OF PILES OF COMBUSTIBLE FIBERS SEC. 903.3.3 OF NYC BUILDING CODE.
11. WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF NYC BUILDING CODE AND SEC. 903.3.1 THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 903.3.5 THE NYC PLUMBING CODE, AND RULES OF THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION.
12. A SECONDARY ON-SITE WATER SUPPLY EQUAL TO THE HYDRAULICALLY CALCULATED SPRINKLER DEMAND, INCLUDING THE HOSE STREAM REQUIREMENT, SHALL BE PROVIDED FOR HIGH-RISE BUILDINGS IN SEISMIC DESIGN CATEGORY "C" OR "D" AS DETERMINED BY THIS CODE, AND IN ANY HIGH-RISE BUILDING GREATER THAN 300 FEET IN HEIGHT. THE SECONDARY WATER SUPPLY SHALL HAVE A DURATION NOT LESS THAN 30 MINUTES AS DETERMINED BY THE OCCUPANCY HAZARD CLASSIFICATION IN ACCORDANCE WITH NFPA 13-2016. AS PER SECTION 903.3.5.2 OF N.Y.C. BUILDING CODE.
13. FIRE HOSE THREADS USED IN CONNECTION WITH AUTOMATIC SPRINKLER SYSTEMS SHALL BE APPROVED AND COMPATIBLE WITH FIRE DEPARTMENT HOSE THREADS. AS PER SECTION 903.3.6 OF N.Y.C. BUILDING CODE.
14. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEM, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEM SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM AS PER SECTION 903.4 OF N.Y.C. BUILDING CODE.
15. APPROVED SUPERVISED INDICATING CONTROL VALVES SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE RISER ON EACH FLOOR IN HIGH-RISE BUILDINGS. AS PER SECTION 903.4.3 OF N.Y.C. BUILDING CODE.
16. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2016 ARE REFERENCED WITHIN NFPA-13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
17. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2016.
18. PROTECTION REQUIREMENTS FOR MIXED COMMODITIES SHALL BE IN ACCORDANCE WITH SEC. 5.6.1.2 OF NFPA 13-2016.
19. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 6 OF NFPA 13-2016.
20. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH TABLE 6.2.3.1 OF NFPA 13-2016.
21. LARGE DROP & ESFR SPRINKLERS SHALL HAVE A MINIMUM NOMINAL K-FACTOR OF 11.2. PER SECTION 6.2.3.5 OF NFPA 13-2016.
22. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1 OF NFPA 13-2016.
23. LISTED CORROSION RESISTANT SPRINKLER SHALL BE INSTALLED IN LOCATIONS WHERE CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES EXIST WITH SECTION 6.2.6.1 OF NFPA 13-2016.
24. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. SEC. 6.6.4.3.1 OF NFPA 13-2016.
25. FIRE DEPARTMENT CONNECTIONS SHALL BE EQUIPPED WITH LISTED PLUGS OR CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY THE FIRE DEPARTMENT. SEC. 6.7.2 OF NFPA 13-2016.
26. REQUIREMENTS OF DRY PIPE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.2 OF NFPA 13-2016.
27. REQUIREMENTS OF PREACTION &DELUGE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.3 OF NFPA 13-2016.

N.Y.C. DEPARTMENT OF BUILDINGS SPRINKLER NOTES (CONT.)

28. OUTSIDE SPRINKLERS FOR PROTECTION AGAINST EXPOSURE FIRE SHALL COMPLY WITH SEC. 7.7 OF NFPA 13-2016.
29. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2016.
30. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED SEC. 8.3.3 OF NFPA 13-2016.
31. WHEN EXISTING LIGHT HAZARD SYSTEMS ARE CONVERTED TO USE QUICK-RESPONSE OR RESIDENTIAL SPRINKLERS ALL SPRINKLERS IN A COMPARTMENTED SPACE SHALL BE CHANGED. SEC. 8.3.3.6 OF NFPA 13-2016.
32. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 8.3.2 OF NFPA 13-2016.
33. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.5 OF NFPA 13-2016.
34. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1 (a) (b) (c) (d) OF NFPA 13-2016.
35. REQUIREMENTS OF DWELLING UNITS PROTECTION SHALL COMPLY WITH SEC. 8.15.8 OF NFPA 13-2016.
36. REQUIREMENTS OF STAGES AREA PROTECTION SHALL COMPLY WITH SEC. 8.15.17 OF NFPA 13-2016.
37. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.16.2.4.2 OF APPENDIX Q-NYC BUILDING CODE.
38. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1 OF NFPA 13-2016.
39. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 9.2.2.1 OF NFPA 13-2016.
40. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY WITH TABLE 11.2.3.1.2 OF NFPA 13-2016.
41. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE, FIGURE 11.2.3.1.1 OF NFPA 13-2016.
42. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2016.
43. CALCULATIONS FOR DRY SYSTEM WATER DELIVERY SHALL BE BASED ON THE HAZARD SHOWN IN TABLE 7.2.3.6 OF NFPA 13-2016.
44. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 11.3.3 OF NFPA 13-2016.
45. TYPE OF SPRINKLER HEAD IN GENERAL STORAGE SHALL COMPLY WITH SEC. 12.6 OF NFPA 13-2016.

MAXIMUM HANGER SPACING

1" - 1 1/4" BLACK STEEL PIPE - 12 FT MAXIMUM HANGER SPACING

1 1/2" - 8" BLACK STEEL PIPE - 15 FT MAXIMUM HANGER SPACING

SPRINKLER NOTES

1. ALL SPRINKLERS ARE 5.6 K-FACTOR.
2. SPRINKLER SPACING IN ORDINARY HAZARD AREAS - MAXIMUM 130 SQ FT PER SPRINKLER AND MAXIMUM 15 FT BETWEEN SPRINKLERS.

OCCUPANCY CLASSIFICATION

1. BUILDING CODE: BUSINESS
2. NFPA 13: LIGHT AND ORDINARY HAZARD GROUP I

PIPE PAINTING NOTE

1. DEDICATED FIRE SPRINKLER PIPE SHALL BE PAINTED IN ACCORDANCE WITH LOCAL LAW 58 OF 2009

INSPECTION AND TEST NOTES FOR SPRINKLER SYSTEM

1. AS PER NYC BUILDING CODE, NFPA 13-2007 CHAPTER 24, SYSTEM SHALL BE TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS.

SPECIAL INSPECTIONS

SPECIAL INSPECTOR'S ARE REQUIRED FOR THE FOLLOWING:

1. SPRINKLER SYSTEMS (PER NYCBC 1704.23)
2. FINAL - SPRINKLER (PER NYCBC 109.5/ DIR 14)

NFPA REFERENCED STANDARDS

1. NFPA 13 - 2016 EDITION

HYDRAULIC NOTE

THE PROPOSED HYDRAULIC DEMAND OF THE SYSTEM IS EQUAL TO, OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DOB/ FDNY PERMIT APPLICATION PROCESS NOTE

1. OWNER SHALL NOTIFY FDNY OF SPRINKLER DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

FIRE SPRINKLER HAZARD CLASSIFICATION

1. LIGHT HAZARD: RESTROOMS, OFFICE, AND RESTAURANT SEATING AREA
2. ORDINARY HAZARD GROUP 2: STORAGE AREAS, ELECTRICAL ROOMS, MECHANICAL ROOMS AND RESTAURANT SERVICE AREA

CONSTRUCTION NOTES

1. DURING CONSTRUCTION, FIRE SPRINKLER CONTRACTOR SHALL KEEP FIRE SPRINKLER SYSTEM OUT OF CONSTRUCTION AREA FULLY CHARGED AND OPERATIONAL DURING BUSINESS HOURS.
2. COORDINATE REQUIRED SHUT-DOWNS OF THE EXISTING SYSTEMS WITH THE OWNER, INSURANCE UNDERWRITER, AND FIRE DEPARTMENT.
3. PROVIDE TEMPORARY VALVES, PIPING AND FITTINGS AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT TENANT'S FIRE SPRINKLER SYSTEM DURING CONSTRUCTION.

HANGER NOTE

1. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE STRUCTURAL ENGINEER OF RECORD.

SPRINKLER BELOW DUCT NOTE

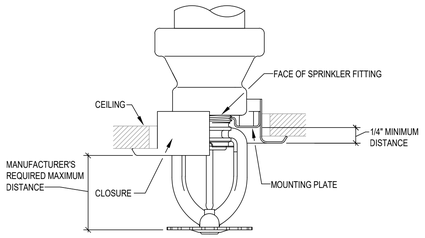
PROVIDE SPRINKLER PROTECTION BELOW DUCTS IN EXPOSED STRUCTURE AREAS PER NFPA 13.

GENERAL NOTES

1. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE DRAWINGS.
2. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.
3. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
4. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE DRAWINGS ARE 100% CAD. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY.
5. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE BID DOCUMENTS WILL BE USED.
6. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPING OR FITTINGS DAMAGED AS A RESULT OF HIS WORK AT NO COST TO THE OWNER.
7. ALL UNUSED OUTLETS ON EXISTING BRANCH LINES SHALL BE PLUGGED.

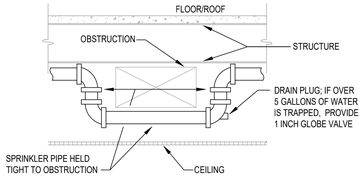
ALL NEW ARM-OVERS TO SPRINKLERS ARE 1" DIAMETER

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE NYCECC. THE SCOPE OF WORK DOES NOT AFFECT THE ENERGY USE OF THE BUILDING.



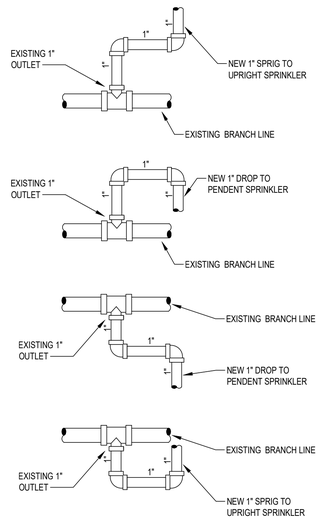
VERTICAL TOLERANCE FOR RECESSED SPRINKLERS

NOT TO SCALE



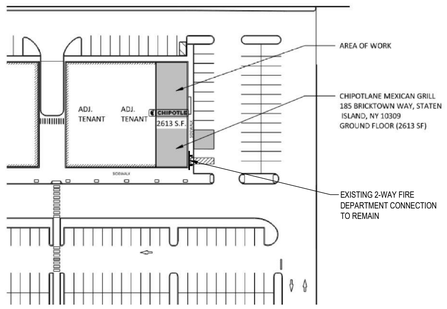
TYPICAL OFFSET AT OBSTRUCTION

NOT TO SCALE



TYPICAL BRANCH LINE OUTLET DETAIL

NOT TO SCALE



PLOT PLAN

NOT TO SCALE

SHEET LIST
SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK
SP-100.00 FIRE SPRINKLER PLAN - NEW WORK
SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM
SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS
SP-300.00 FEMA MAP

DOB NOW APPLICATION #S01113212-S3

CCI
215 WEST 40TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-216-9596
www.codeconsultants.com

ENGINEER OF RECORD:
WILLIAM B. SMITH, PE
LICENSE NO. 086187
CODE CONSULTANTS PROFESSIONAL ENGINEERS, PC
215 WEST 40TH ST., 10TH FLOOR
NEW YORK, NY 10018
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CORPORATE CERTIFICATE OF AUTHORITY NO. 41955

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8/30/2024

STATE OF NEW YORK · WILLIAM B. SMITH · LICENSED PROFESSIONAL ENGINEER · 086187

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185 BRICKTOWN WAY, STATEN ISLAND, NY

Issue Record:	
08/30/2024	LLD REVIEW SET
10/01/2024	PERMIT SET
12/23/2024	CONSTRUCTION SET

Revisions:

Drawn:	Checked:
SC	WMA

Project No.: 24026

Contents:
FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS

SP-201.00

National Flood Hazard Layer FIRMette

74°14'10"W 40°32'4"N



74°13'33"W 40°31'37"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/26/2024 at 1:18 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FEMA MAP
NOT TO SCALE

SHEET LIST

SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK
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SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS
SP-300.00 FEMA MAP

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DOB NOW APPLICATION #S01113212-S3

CCI
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ENGINEER OF RECORD:
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Consultant:

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12-09-2025

STATE OF NEW YORK · WILLIAM B. SMITH · 086187 · LICENSED PROFESSIONAL ENGINEER

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SC	WMA

Project No.
24026

Contents:
FEMA MAP

SP-201.00

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 24023_Chipotle_Charleston_Staten Island, NY
Project Type: Alteration

Construction Site:
185 Bricktown Way
Staten Island, New York 10309

Owner/Agent:

Designer/Contractor:
Michael Wilson
Polaris Consulting Engineers
214 W. Main Street
Moorestown, New Jersey 08057
856-778-5400

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Entire Space (Dining: Cafeteria/Fast Food)	2350	0.66	1551
		Total Allowed Watts =	1551

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entire Space (Dining: Cafeteria/Fast Food, 2350 sq.ft.)				
LED: A1: 2x2: Other:	1	10	30	300
LED: B1: 6" Recessed: Other:	1	7	17	119
LED: B2: 6" Recessed: Other:	1	26	17	442
LED: B3: 6" Recessed: Other:	1	2	12	24
LED: C0: 1' Linear: Other:	1	2	5	10
LED: C2: 3' Linear: Other:	1	18	12	216
LED: C3: 4' Linear: Other:	1	5	15	75
LED: H1: Hood Light: Other: Exemption:Lighting integral to equipment	1	8	15	Exempt
LED: C1: 2' Linear: Other:	1	9	9	81
LED: J4: Decorative Pendant: Other:	1	2	9	18
LED: P5: Pendant: Other:	1	4	5	20
LED: P6: Decorative Pendant: Other:	1	2	30	60
LED: W1: WIC Light: Other: Exemption:Lighting integral to equipment	1	4	29	Exempt
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	120	120
			Total Proposed Watts =	1545

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

NOTE: COMMISSIONING IS REQUIRED BY THE NYCECC FOR THIS PROJECT. THE OWNER'S PROJECT REQUIREMENTS AND THE BASIS OF DESIGN HAVE BEEN PREVIOUSLY ESTABLISHED IN COLLABORATION WITH MULTIPLE INTERESTED PARTIES, AND ARE REFLECTED IN THE OWNER'S PROTOTYPE DOCUMENTS. THE DESIGN TEAM HAS DETERMINED A SET OF RELATED REQUIREMENTS BASED ON THE CHIPOTLE FACILITY DESIGN. COORDINATE WITH THE OWNER'S SPECIAL INSPECTOR FOR SCHEDULING AND COMPLETION OF ALL REQUIREMENTS. CONSTRUCTION DOCUMENTS, O&M MANUALS, AND SYSTEM BALANCING REPORT SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION. IN ADDITION, THE FINAL COMMISSIONING REPORT SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT AS OUTLINED IN NYCECC SECTION C408.2.5.4.

ENERGY COMPLIANCE STATEMENT:
"TO THE BEST OF MY KNOWLEDGE AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH CHAPTER C4 OF THE 2020 NYCECC"

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 24023_Chipotle_Charleston_Staten Island, NY
Location: New York, New York
Climate Zone: 4a
Project Type: Alteration

Construction Site:
185 Bricktown Way
Staten Island, New York 10309

Owner/Agent:

Designer/Contractor:
Michael Wilson
Polaris Consulting Engineers
214 W. Main Street
Moorestown, New Jersey 08057
856-778-5400

Mechanical Systems List

Quantity System Type & Description

1 AHU / ACC-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 9 kBtu/h,
Proposed Efficiency = 10.50 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 9 kBtu/h,
Proposed Efficiency = 23.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 89 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.20 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.80 IEER, Required Part Load Efficiency = 12.70 IEER

1 RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 89 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.20 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.80 IEER, Required Part Load Efficiency = 12.70 IEER

1 MAU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 89 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in *COMcheck* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

2024-DB#6/P#1

Consultant:
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214 W. Main Street, Suite 208
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(856) 778-5400

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STORE NO.: 31-5447
CHARLESTON STATEN ISLAND
185 BRICKTOWN WAY
STATEN ISLAND, NY 10309

REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L. WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
ENERGY COMPLIANCE FORMS

SHEET NUMBER:
EN-100.00
1 OF 1

DOB NOW Filing #: S01113212-S1

HVAC ABBREVIATIONS

ACC	AIR COOLED CONDENSING UNIT (HVAC)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CU	CONDENSING UNIT (COOLER)
EF	EXHAUST FAN
ER	EXHAUST REGISTER
(E)/EXT'G	EXISTING
HD	HOOD
MAU	MAKEUP AIR UNIT
OBD	BLADE DAMPER
RG	RETURN GRILL
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED GEN. EXHAUST	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN REGISTER
- CEILING-MOUNTED EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- W x H — DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH x HEIGHT)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- M — MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- T — GRIDPOINT THERMOSTAT
- S — GRIDPOINT ZONE SENSOR MODULE
- S — GRIDPOINT SUPPLY PROBE
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- XXX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-600 FOR EQUIPMENT INFORMATION
- A/V — AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- M — MOTORIZED DAMPER
- FD/AD — FIRE DAMPER W/ ACCESS DOOR
- CD-1 / 12" ROUND / 550 CFM — GRILL, REGISTER, OR DIFFUSER TAG / NECK SIZE / AIRFLOW

HVAC GENERAL NOTES

A. GENERAL NOTES APPLY TO HVAC SHEETS.

B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET G-001 FOR THE PREVAILING CODES.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE, RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J. REPLACE AIR FILTERS WITH NEW, CLEAN, MERV 7 AIR FILTERS AT TURNOVER.

K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNITRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCETABLE.

HVAC SPECIFICATIONS

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Shop Drawings.
B. Comply with ASHRAE 15.
C. EER: Equal to or greater than prescribed by NYCECC2020.
D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.
PART 2 - PRODUCTS
2.1 PACKAGED UNITS, 5 TO 20 TONS
A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
8. Economizer controls (Comparative Enthalpy, 100% capacity).
9. Low ambient controls.
10. Smoke Detectors: Photoelectric - In supply and/or return as called for on teh schedule on M-600.
11. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.
12. Roof curb.
13. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
14. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install units level and plumb and firmly anchored.
B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.
D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.
E. Connect units to wiring systems and to ground.
END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft.
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," Chapter 3, "Duct System," for range hood ducts, except single family residential usage, unless otherwise indicated.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified.
PART 2 - PRODUCTS
2.1 DUCTS
A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 6.3.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
2.2 ACCESSORIES
A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner on all supply and return duct.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.
3.2 TESTING, ADJUSTING, AND BALANCING
A. The owner will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The general contactor is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the owner, engineer and general contractor for review.
END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 OUTLETS AND INLETS
A. Diffusers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.
B. Wall and Ceiling Registers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As Scheduled.
5. Mounting: Countersunk screw.
C. Wall and Ceiling Grilles:
6. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
7. Manufacturer: As scheduled (NO SUBSTITUTIONS)
8. Material: As scheduled.
9. Finish: As Scheduled.
10. Mounting: Countersunk screw or lay in depending location.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on general construction "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.
END OF SECTION 15855

SECTION 15900 - HVAC INSTRUMENTATION AND CONTROLS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Electric/electronic control sequences for HVAC systems and equipment.
B. Submittals: Shop Drawings detailing operating control sequences of each item of HVAC equipment and system and Product Data for controllers, sensors, operators, control panels, thermostats, humidistats, actuators, control valves and dampers.
C. System Description: Control systems consists of sensors, indicators, actuators, final control elements, interface equipment, and other apparatus, accessories, required to operate mechanical systems according to sequences of operation indicated and specified.
D. Operation Sequence:
1. Unoccupied Cycle: During unoccupied hours, as set by the Energy Management System, the outside air and return dampers for the HVAC unit close, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the HVAC unit energizes.
2. Occupied Cycle: During occupied hours, as set by the Energy Management System, the outside air and return dampers open to a minimum set point. The furnace and exhaust fans run continuously. Upon a call for heating, the furnace heating energizes. Upon a call for cooling, the condensing unit energizes.
PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install control wiring concealed, except in mechanical rooms, and according to requirements specified in Division 16 Sections.
END OF SECTION 15900

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
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12/11/2024
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NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
MECHANICAL SPECIFICATIONS, SYMBOLS, & GENERAL INFORMATION

SHEET NUMBER:
M-010.00
1 OF 12

DOB NOW Filing #: S01113212-S1

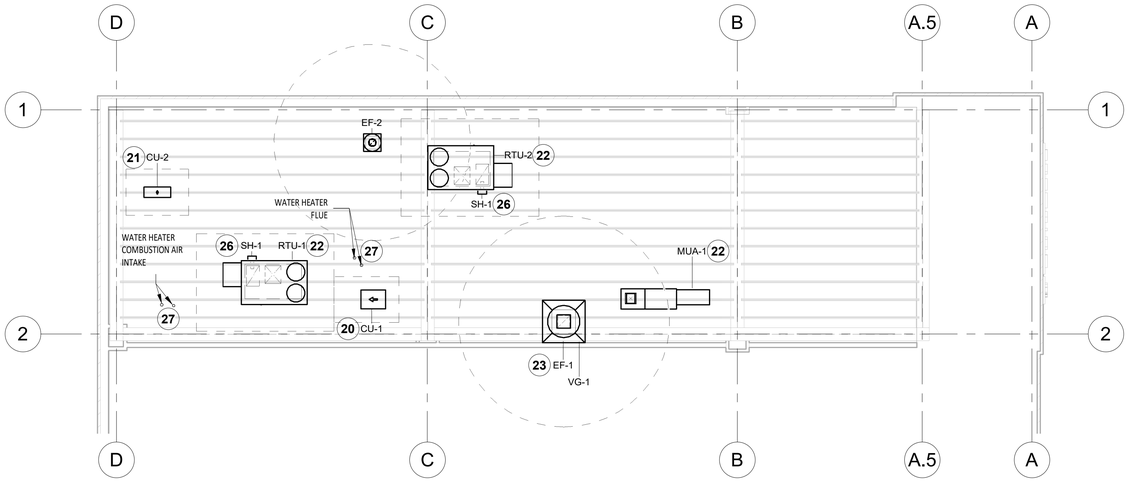
2024-DB#6/P#1

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2	PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3	INSTALL FIRE DAMPER AT PENETRATION THROUGH DRAFT CURTAIN.
4	28/18 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5	28/18 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6	24/21 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
7	22/22 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-2 SUPPLY CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
8	14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9	16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT. PROVIDE DUCT CLEANOUT ACCESS DOOR AT ALL CHANGES IN DIRECTION AND AT ALL LINEAR INTERVALS PER LOCAL CODE.
10	8/8 DUCT UP THROUGH ROOF TO EF-2. SEE DETAIL 6/M-701.
11	28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
12	8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
13	INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 7/E710. LABEL THERMOSTAT WITH CORRESPONDING UNIT.
14	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION AT 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 7/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
15	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION AT 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 7/E710. LABEL SENSOR WITH CORRESPONDING UNIT.

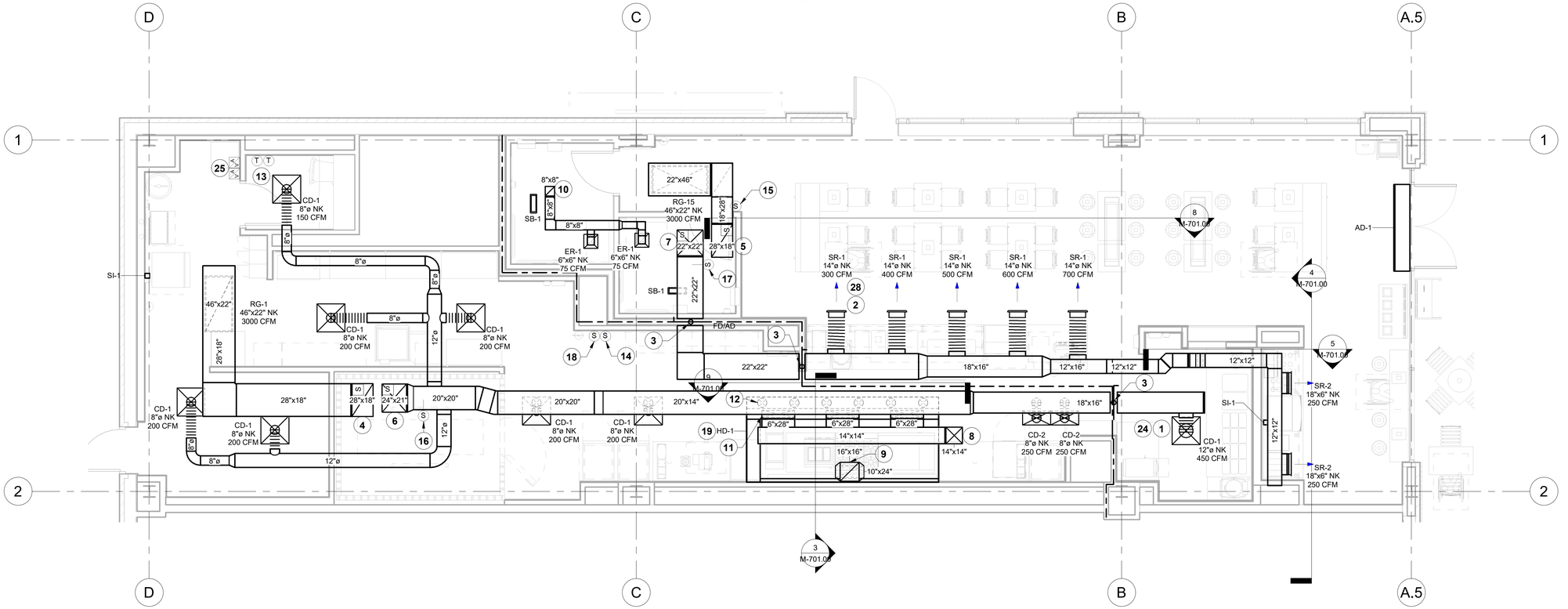
KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
16	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 7/E710.
17	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 7/E710.
18	INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION AT 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL. LABEL SENSOR "HD-1".
19	INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 4/M-700, AND 2, 3, & 9/M-701. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20	INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
21	INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MACHINE IS EXPOSED TO PUBLIC VIEW, CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
22	INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23	INSTALL EXHAUST FAN EF-1 PER DETAIL 8/M-700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN EF-1.
24	PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 6/M-700. TYPICAL.
25	PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. LABEL ANNUNCIATOR WITH CORRESPONDING UNIT. TYPICAL.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
26	INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 5/M-700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27	MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28	ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



2 HVAC ROOF PLAN
1/8" = 1'-0"



1 HVAC PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
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PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
HVAC PLAN

SHEET NUMBER:
M-100.00
2 OF 12

DOB NOW Filing #: S01113212-S1

HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#6991332

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	12' 9"	600 DEG	I	HEAVY	200	2550	10"	24"	4"		2550	1530	-0.966"	1300	696	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1213 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	165"	19"	6"	MUA	6"	28"		432	0.127"
						MUA	6"	28"		432	0.127"
						MUA	6"	28"		432	0.127"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

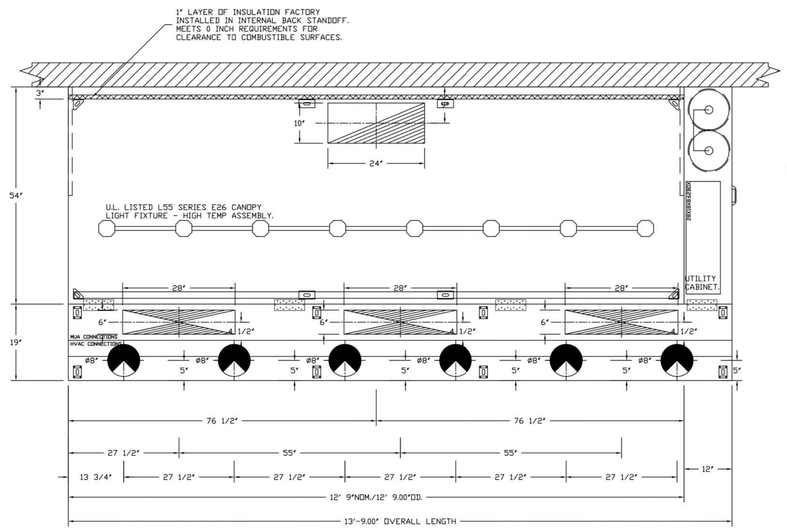
- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

FIRE SYSTEM INFORMATION - JOB#6991332

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET RIGHT	RIGHT, HOOD 1

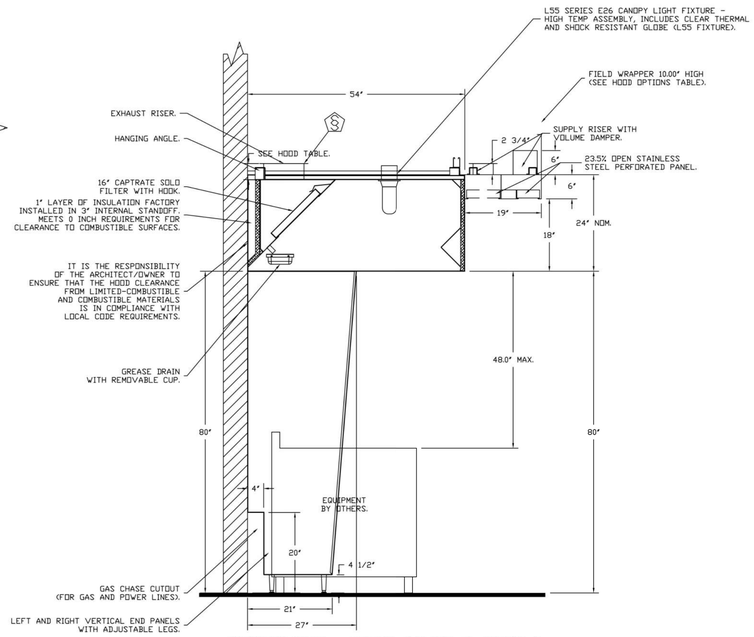
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



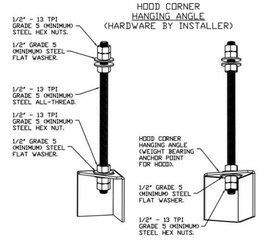
PLAN VIEW - HOOD #1
12' 9.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



SECTION VIEW - MODEL 5424ND-2-ACPSP-F HOOD - #1

HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

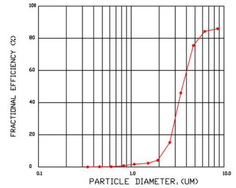
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

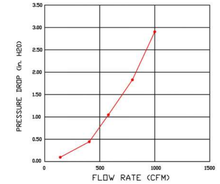
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

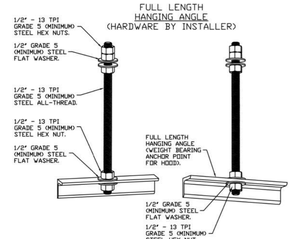


PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

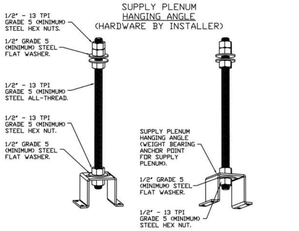
FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS

	DESCRIPTION	DATE:
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185 Bricktown Way,
Staten Island, NY, 10309

DATE: 9/3/2024
DWG.#: 6991332
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

Consultant:

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1	12.23.2024	CONSTRUCTION SET

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER: 24023

SHEET TITLE: CAPTIVEAIRE DRAWINGS

SHEET NUMBER: M-401.00
3 OF 12

DOB NOW Filing #: S01113212-S1

2024-DB#6/P#1

HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

EXHAUST FAN INFORMATION – JOB#6991332

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU180HFA	CAPTIVEAIRE	2550	1.450	1220	TEFC,PREMIUM	2.000	1.2800	3	208	7.3	589 FPM	200	16.6
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1282	TEAO-ECM	0.250	0.0940	1	115	2.9		50	6.1

MUA FAN INFORMATION – JOB#6991332

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
3	MAU-1	1	A1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1300	0.500	1546	ODP,PREMIUM	1.000	0.5680	3	208	3.1	3.9A	15A	500	12.1

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU-1	88971	81853	59°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	EXHAUST FAN HEAT BAFFLE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

FAN ACCESSORIES

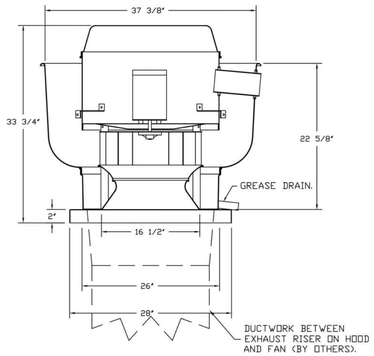
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					
3	MAU-1						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

FAN #1 DU180HFA - EXHAUST FAN (EF-1)



FEATURES:

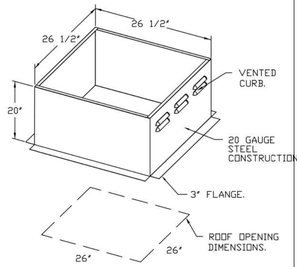
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

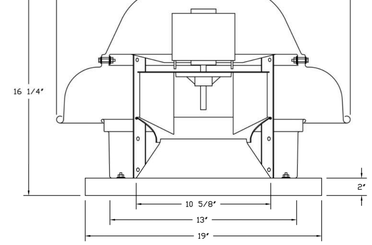
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- EXHAUST FAN HEAT BAFFLE.
- 2 YEAR PARTS WARRANTY.



FAN #2 DR12HFA - EXHAUST FAN (CF-2)

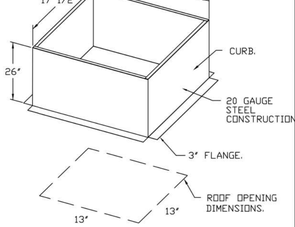


FEATURES:

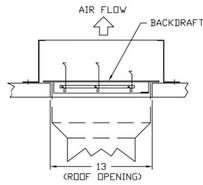
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

- I 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



REVISIONS

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1		
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SCALE: 3/4" = 1'-0"

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SHEET NO. 2

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CHECKED BY: AJS

PROJECT NUMBER:
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M-402.00
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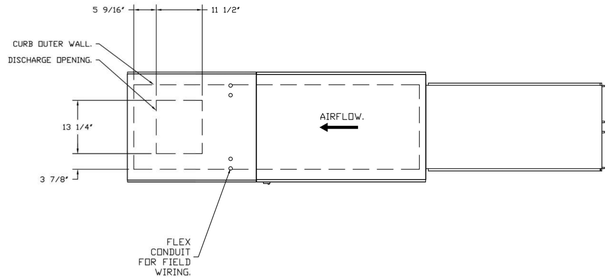
HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

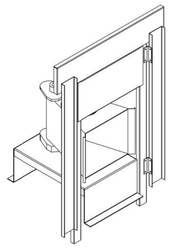
FAN #3 A1-D250-15D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
7. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 3/4" CONNECTION.
8. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TF81205 ACTUATOR INCLUDED.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
12. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 16°F. TEMP. RISE = 59°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 81942.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 89067.
OUTPUT BTUs AT ALTITUDE OF 30 FT. = 81853.
INPUT BTUs AT ALTITUDE OF 30 FT. = 88971.





DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

OPTIONS:
- FULL BOTTOM CORNERS.

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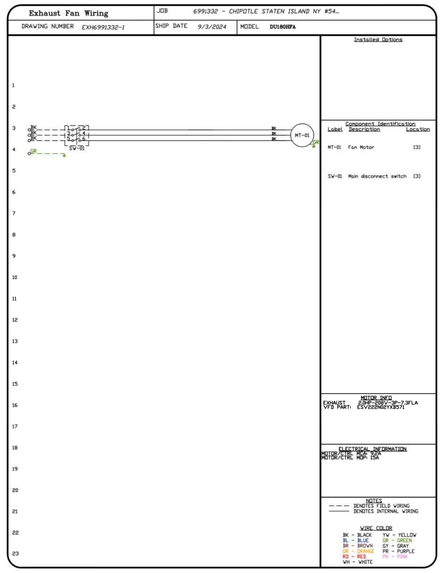
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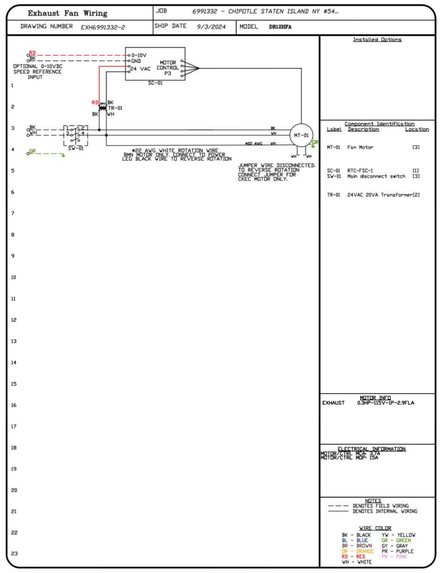
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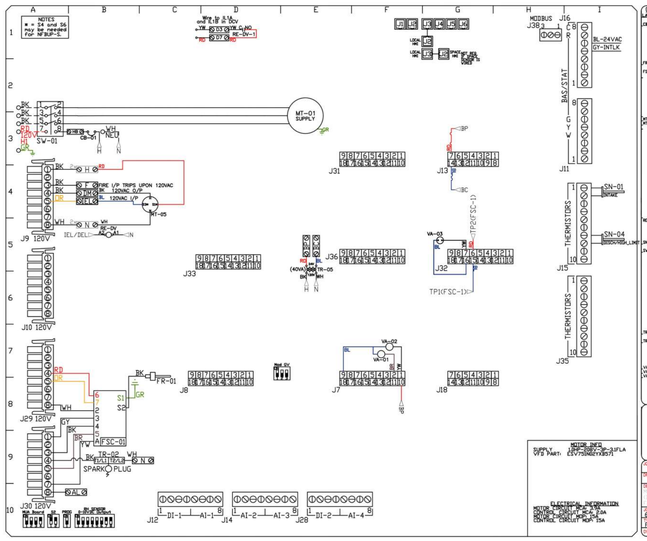
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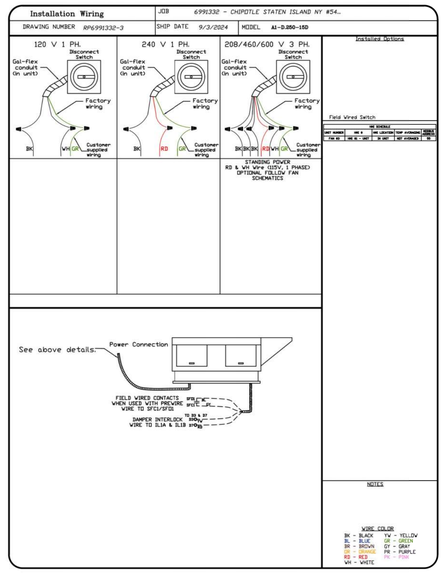
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ELECTRICAL PACKAGE – JOB#6991332

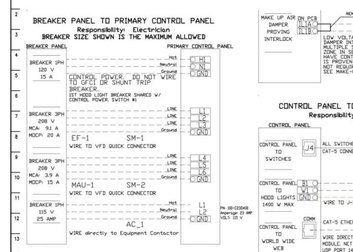
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	7.3
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	1.000	208	3.1

JOB NO 6991332 | MODEL NUMBER SC-311110MA | JOB NAME CHIPOTLE STATEN ISLAND NY #54.. | DRAWN BY | DATE 9/3/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

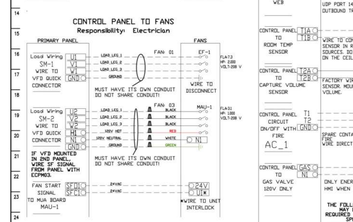
DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Smart Controls Thermostatic Control, Exhaust Fan Temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD

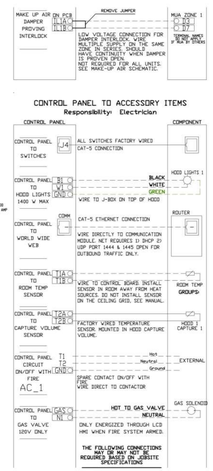
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician

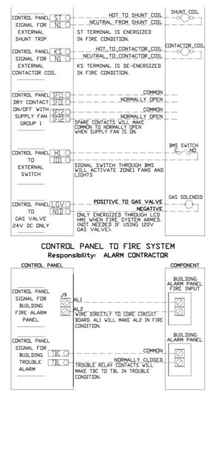
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



CONTROL PANEL TO FANS
Responsibility: Electrician



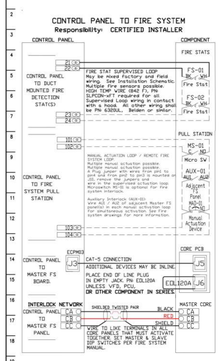




JOB NO 6991332 | MODEL NUMBER SC-311110MA | JOB NAME CHIPOTLE STATEN ISLAND NY #54.. | DRAWN BY | DATE 9/3/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Smart Controls Thermostatic Control, Exhaust Fan Temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 6991332 | MODEL NUMBER SC-311110MA | JOB NAME CHIPOTLE STATEN ISLAND NY #54.. | DRAWN BY | DATE 9/3/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 7600 FS - 48/48.

TANK PROTECTION ELECTRICAL DETAIL

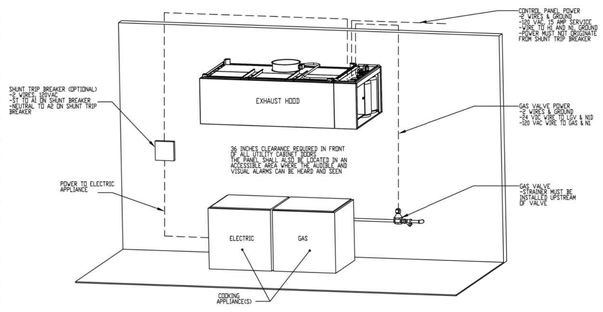
02/10/2021 Rev. 2

FS-1: MASTER

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE GAS APPLIANCE KILL SWITCH IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AUI2	SOLENOID	120 VAC	< 6 AMPS	120V TO AUI, AUI2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	10V & N1 (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC - 2 WIRES & GROUND, NOT TO RED 10V OR RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, NO TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 6991332 | MODEL NUMBER SC-311110MA | JOB NAME CHIPOTLE STATEN ISLAND NY #54.. | DRAWN BY | DATE 9/3/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 7600 FS - 48/48.

TANK PROTECTION LOW-VOLTAGE DETAIL

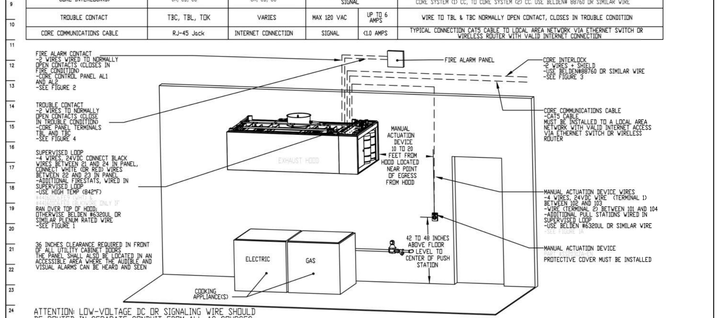
02/02/2021 Rev. 1

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER PROTECTIVE COVER MUST BE INSTALLED
REMOTE FIRESTAT SENSOR(S)	21 AND 24 23 AND 23	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE SENSOR BLACK WIRE BETWEEN CORE PANEL TERMINALS 23 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842F) RATED WIRE (ART 1 RATED) MUST BE USED ON THIS DC 24V T WIRE OF LESS RESISTANCE SUCH AS 18AWG SOLID, OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	ALI, ALI2	VARIES	50V MAX DC/DC	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL.
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM #1 CA, TO CORE SYSTEM #2 CA, CORE SYSTEM #1 CB, TO CORE SYSTEM #2 CB, CORE SYSTEM #1 CC, TO CORE SYSTEM #2 CC. USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

2024-DB#6/P#1

REVISIONS

	DESCRIPTION	DATE:
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2		
3		
4		

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CHIPOTLE STATEN ISLAND NY #5447
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DATE: 9/3/2024

DWG.#: 6991332

DRAWN BY:

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 5

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER: 24023

SHEET TITLE:
CAPTIVEAIRE DRAWINGS

SHEET NUMBER:
M-405.00
7 OF 12

DOB NOW Filing #: S01113212-S1

HOOD SHOP DRAWING PRODUCED BY
MANUFACTURER - FOR REFERENCE ONLY

JOB NO 6991332 | MODEL NUMBER SC-311110MA | DRAWN BY | SCHEMATIC TYPE INSTALL | DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 48x48.
JOB NAME CHIPOTLE STATEN ISLAND NY #54... | DATE 9/3/2024 | DWG NO ECP #1-5

TANK PROTECTION LOW-VOLTAGE FIGURES

10/01/2023 Rev. 17

FS-1: MASTER

USE BELDEN #6300UL OR SIMILAR WIRE

FIRE STAT-1 — BREAK WIRE BETWEEN INDENTING TERMINALS — FIRE STAT-2 — JUMPER — END OF LINE DEVICE

WIRING CONNECTIONS FOR FIRE STAT LOOP FIGURE 1

MICROSWITCH MANUAL ACTUATION DEVICE — BREAK WIRE BETWEEN INDENTING TERMINALS — MANUAL ACTUATION DEVICE — JUMPER — END OF LINE DEVICE

WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP FIGURE 3A

BUILDING FIRE ALARM — CORE CONTROL PANEL FIRE ALARM CONTACT — ALARM INPUT — NO NC C — END OF LINE DEVICE

WIRING CONNECTIONS FOR FIRE ALARM CONTACT FIGURE 2

SHIELDED TWISTED PAIR — JUMPER

WIRING CONNECTIONS FOR CORE INTERLOCK FIGURE 5

BUILDING FIRE ALARM — TROUBLE INPUT — CORE CONTROL PANEL TROUBLE CONTACT — SUPERVISION SWITCH — SUPERVISION SWITCH — SUPERVISION SWITCH — TDK — TBL — NO — C — NC — END OF LINE DEVICE

WIRING CONNECTIONS FOR TROUBLE CONTACT FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.

J9 120V — CONTROL INPUT 120V HI=LINE, NI=NEUTRAL; 15A BREAKER. DO NOT USE GFCI OR SHUNT TRIP BREAKER. SEE INSTALLATION SCHEMATIC FOR ADDITIONAL REQ. TERMINAL GAS USED FOR 120V POWERED GAS VALVES ONLY.

24 VAC — PS-01 — TRANSFORMER

SCADA — Wired to Hyster/Core: Common and Signal. Use shielded wire

NOTE: All Home or ECP#01 J3 link to be daisy chained from the previous unit. Place a jumper on J3 at end of line. Place PN 310L100A in empty RJ45 port.

ECP#03/DAISY CHAIN — ECP#03 or Previous EOL — NOTE: Configure ECP#03 for CORE MASTER CORE

J7 120V — PANEL LID — EF1 — EF2 — JUMPER

MOTOR POWER CIRCUIT — 3 PH 208 V 20 A — 3 PH 208 V 15 A — SM-1 — SM-2 — MTR-EF-1 FLA-7.3 HP-2.000 — P326A/A P326D/B P326A/A P326D/B — P326A/A P326D/B P326A/A P326D/B — P326A/A P326D/B P326A/A P326D/B

EXHAUST FAN SCHEDULE

Tag	Manufacturer	Model	Type	Drive	CFM	E.S.P. IN. W.C.	Motor H.P.	Volts	PH.	Hz.	RPM	Sone Level	Weight lbs.	Furnished By	Installed By	Comments
EF-1	Captive-Aire	DU180HFA	Roof	Direct	2550	1.45	2	208	3	60	1220	16.6	200	HS	GC	See Captive-Aire drawings for options & accessories.
EF-2	Captive-Aire	DR12HFA	Roof	Direct	150	0.6	.250	115	1	60	1282	6.10	50	HS	GC	See Captive-Aire drawings for options & accessories.

OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE

Unit ID	Nominal Cooling Capacity (Tons)	Manuf.	Model	Description	Refrig. Type	Refrig. Charge	Unit Electrical Data Voltage	Phase	Hz.	FLA	MOCP	Unit Installed Weight lbs.	Furnished By	Installed By	Comments
CU-1	-	Manitowoc (Harford)	PC98MZOP-3	Walk-in Cooler Remote CU	R-404A	10.4	208	3	60	9	15	250	WCS	GC	Furnished with walk-in cooler
CU-2	-	Hoshizaki	URC-9FZ	Ice Maker Remote CU	R-404A	11.46	120	1	60	-	-	100	KES	GC	Furnished with ice maker

AIR DOOR SCHEDULE

ID	Manufacturer	Model	Airflow Max FPM	Avg FPM	CFM	Electrical KW	V/P/H	MCA	MOCP	Furnished By	Installed By	Remarks
AD-1	Berner	AI081072E	2149	1582	1780	11.2	208/3/60	32.8	45.0	GC	GC	Supplied and installed by GC

MAKE-UP AIR UNIT SCHEDULE

Unit ID	Manuf.	Model	Orientation	Fan Performance Design Supply (CFM)	Min Supply CFM	Total E.S.P. in. w.c.	Motor Nominal HP	RPM	Heating Performance Type	Input MBH	Output MBH	Temperature Rise °F D.B.	Efficiency AFUE %	Unit Electrical Data Voltage	Phase	Hz.	MCA	MOCP	Unit Installed Weight lbs.	Furnished By	Installed By	Comments
MAU-1	Captive-Aire	A1-D.250-15D	Downflow	1300	-	0.50	1	1169	Nat.Gas	88.971	81.853	59.0	92	208	3	60	3.9	15	650	HS	GC	See Captive-Aire drawings for options & accessories.

VENTILATION SCHEDULE

Space Served Name	Area (SQ.FT.)	Calculation of Minimum Outside Air (OA) Per NYC MC 2022 Classification	Based on Occupancy Persons Per 1000 SQ.FT.	Estimated Max. Occupant Load	Design Occupant Load	CFM Per Person	Total OA CFM	Based on CFM / SQ.FT. CFM Per SQ.FT.	Total OA CFM	Based on Exhaust Fixture Quantity	CFM Per Fixture	CFM Per SQ.FT.	Total Exhaust CFM	OA CFM Required	OA CFM Provided	Ventilation System	Comments
101-Dining	540	Food and beverage service: Cafeteria, fast food	100	54	42	7.5	315	0.18	97					412	685	RTU-2	See Note 1
102-Ordering	56	Food and beverage service: Cafeteria, fast food	100	6	6	7.5	42	0.18	10					52	87	RTU-2	See Note 1
103-Utensil	48	Public spaces, Corridors and utilities						0.06	3					3	5	RTU-2	
104-Passage	39	Public spaces, Corridors and utilities						0.06	2					2	4	RTU-2	
105-Unisex 1	52	Public spaces: Toilet rooms - public							0	1	70		70	0	0	EF-2	
106-Unisex 2	53	Public spaces: Toilet rooms - public							0	1	70		70	0	0	EF-2	
Totals:	788				48									470	780	RTU-2	
107-Serving	55	Food and beverage service: Cafeteria, fast food	100	6	4	7.5	30	0.18	10					40	140	RTU-1	See Note 1
108-DML	76	Food and beverage service: Cafeteria, fast food	100	8	2	7.5	15	0.18	14					29	100	RTU-1	See Note 1
109-Cooking	398	Food and beverage service: Kitchens (cooking)	20	8	2	7.5	15	0.12	48			0.7	279	63	220	EF-1	
110-Kitchen	289	Food and beverage service: Cafeteria, fast food	100	29	4	7.5	30	0.18	52					82	287	RTU-1	See Note 1
111-Office	40	Offices: Office spaces	5	0	1	5	5	0.06	2					7	26	RTU-1	
113-Trash Room	37	Public spaces, Corridors and utilities						0.06	2					2	8	RTU-1	
Totals:	895				13									223	780	RTU-1	Via EF-3

Notes:
1. Classification of "Food and beverage service, Cafeteria, fast food" results in an estimated quantity of people on a square footage basis that is unrealistic with regard to the actual use of the space. The calculated number of people has been noted in the above calculation, but an alternative, reasonably conservative actual maximum occupancy (which is supported by the Owner's historical data) is utilized in the calculation for the Total Outside Air CFM required for the respective Zones. The code-mandated value of 7.5 cfm/person for "Food and beverage service, Cafeteria, fast food" is used in the calculation.

ROOFTOP UNIT SCHEDULE

Unit ID	Nominal Cooling Capacity Tons	Manuf.	Model	Area Served	Orientation	Fan Performance Air Balance Supply CFM	Air Balance Outdoor CFM	Motor Hp	Total E.S.P. in. w.c.	Cooling Capacity Net Capacity Total MBH	Net Capacity Sensible MBH	Efficiency (S)EER	Efficiency IEER	EAT (Deg. F) DB	EAT (Deg. F) WB	Cond. EAT (Def. F)	Heating Performance Type	Input MBH	Output MBH	Efficiency AFUE %	Unit Electrical Data Voltage	Phase	Hz.	MCA	MOCP	Unit Installed Weight lbs.	Furnished By	Installed By	Accessories, Features & Options 1	2	3	4	5	6	7	8	9	10	11	12	13	14	Comments
RTU-1	7.5	York	KJ090N18R2BELAB2A1	Kitchen	Downflow	3000	780	3	1.0	88.7	61.9	12.2	15.8	80.0	67.0	95.0	Nat.Gas	180	146	81	208	3	60	47.7	60	1245	HES	GC	X	X	X	X	X	X	X	X	X	X	X	X	
RTU-2	7.5	York	KJ090N18R2BELAB2A1	Dining Room	Downflow	3000	780	3	1.0	88.7	61.9	12.2	15.8	80.0	67.0	95.0	Nat.Gas	180	146	81	208	3	60	47.7	60	1245	HES	GC	X	X	X	X	X	X	X	X	X	X	X	X	

Notes that apply to all units:
1. Static pressure indicated above is the external static pressure which excludes any pressure drops within the unit.
2. Unit shall be complete with side outlet drain and access doors. Outside air dampers shall be equipped with blade and jamb seals.
3. Contractor to ensure that outdoor air intakes are a minimum of 10'-0" away from any exhaust fan discharge, plumbing vent or other contaminant source.
4. Maximum air velocity through cooling coil shall not exceed 500 feet per min.
5. Provide 4 sided factory roof curb suitable for seismic conditions of project location.
6. Perform testing and balancing and submit reports to the engineer in accordance with specification.
7. Refer to roof framing plan for exact location of rooftop units.
8. Mechanical subcontractor shall affix unit designation decal on unit.
9. Unit to operate at 7 in. w.g. natural gas pressure. See Manufacturer's specifications for final connection size to unit.
10. Provide alternate bid to supply all rooftop units with coastal package (coated coils, painted rails, etc.) when site is located within 5 miles of the coast.

Accessories, Features & Options:
1. MERV-8 filters.
2. Roof curb - 14" high.
3. M.O.D.
4. Hail guard.
5. Unit mounted convenience receptacle.
6. R.A. & S.A. smoke detectors w/ remote keyed annunciator/reset.
7. Comp. enthalpy econ.
8. Barometric relief.
9. Toolless hinged access panels.
10. Unit shall be charged with refrigerant type R-410A
11. Disconnect.
12. Hi-static motor
13. Coastal Package
14. Refrigerant Detection System (RDS)

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

Tag	Description	Face Size / Neck Size	Material	Finish	Mounting	Furnished By	Installed By	Manufacturer	Model	Notes
CD-1	Perforated ceiling diffuser	Face: 24"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBD
CD-2	Perforated ceiling diffuser	Face: 24"x12" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBP Remove 4-way deflectors
ER-1	Perforated ceiling exhaust	Face: 12"x12" Neck: Varies	Aluminum	White	Surface mount	GC	GC	Nailor	4330R Type S	Provide with integral OBD
RG-1	Perforated ceiling return	Face: 48"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4330R Type L	
RG-2	Perforated ceiling return	Face: 48"x24" Neck: Varies	Aluminum	White	Surface mount	GC	GC	Nailor	4330R Type S	
SR-1	Adjustable turbo nozzle	Neck: Varies	Aluminum	White	Wall	GC	GC	Air Concepts	ANR-14	Provide with concealed mounting and face-accessible OBD
SR-2	Double-deflection supply register	Neck: Varies	Aluminum	White	Wall	GC	GC	Nailor	51DH	Provide with integral OBD

AIR BALANCE CALCULATIONS

System	Supply Air CFM	Return Air CFM	Outdoor Air CFM	Exhaust Air CFM	Pressure CFM
RTU-1	3000	2220	780		780
RTU-2	3000	2220	780		780
MAU-1	1300	0	1300		1300
EF-1				2550	-2550
EF-2				150	-150
Total	7300	4440	2860	2700	160

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 5/M-700 FOR INSTALLATION INFORMATION
SI-1	1	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION

VIROGUARD SCHEDULE

TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSYTEM	16"x16"	Captive-Aire DU180HFA	TDC	GC	ENVIROMATIC

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.

C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M-600.00
9 OF 12

DOB NOW Filing #: S01113212-S1

2024-DB#6/P#1

NYCECC 2020 - TABLE C403.2.10: MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (in.)				
	CONDUCTIVITY Btu-in / (hr-ft2-°F)	MEAN RATING TEMPERATURE (°F)	< 1.0	1.0 < 1.5	1.5 < 4.0	4.0 to < 8.0	8.0 and up
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

NOTE: COMMISSIONING IS REQUIRED BY THE NYCECC FOR THIS PROJECT. THE OWNER'S PROJECT REQUIREMENTS AND THE BASIS OF DESIGN HAVE BEEN PREVIOUSLY ESTABLISHED IN COLLABORATION WITH MULTIPLE INTERESTED PARTIES, AND ARE REFLECTED IN THE OWNER'S PROTOTYPE DOCUMENTS. THE DESIGN TEAM HAS DETERMINED A SET OF RELATED REQUIREMENTS BASED ON THE CHIPOTLE FACILITY DESIGN. COORDINATE WITH THE OWNER'S SPECIAL INSPECTOR FOR SCHEDULING AND COMPLETION OF ALL REQUIREMENTS. CONSTRUCTION DOCUMENTS, O&M MANUALS, AND SYSTEM BALANCING REPORT SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION. IN ADDITION, THE FINAL COMMISSIONING REPORT SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT AS OUTLINED IN NYCECC SECTION C408.2.5.4.

DUCT INSULATION

PER SECTION C403.11.1 OF THE 2020 NYC ENERGY CONSERVATION CODE, ALL SUPPLY & RETURN DUCTS & PLENUMS SHALL BE INSULATED IN THE FOLLOWING MANNER:

- LOCATED IN UNCONDITIONED SPACES: MINIMUM OF R-6 INSULATION
- LOCATED OUTSIDE THE BUILDING: MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)
- LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY: SEPARATED FROM THE BUILDING EXTERIOR, UNCONDITIONED, OR EXEMPT SPACE BY A MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)

DUCTWORK INSULATION SPEC

6. DUCTWORK INSULATION

a. ALL NEW AND EXISTING CONCEALED SHEET METAL SUPPLY DUCTWORK (AND RETURN DUCTWORK IN UNCONDITIONED SPACES) SHALL BE INSULATED WITH 2" THICK FLEXIBLE DUCT INSULATION, WITH A MINIMUM R VALUE OF 6, WITH REINFORCED FOIL FACED, FLAME RESISTANT, ALUMINUM FOIL VAPOR BARRIER SIMILAR TO KNAUF FRIENDLY FEEL DUCT WRAP WITH ECOSE. THE DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. THE SHEET METAL SIZE SHALL BE INCREASED TO ACCOMMODATE THE LINER INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. ALL INSULATION SHALL BE SECURED WITH DUCT ADHESIVE AND SEEMS SEALED BY TWO-INCH SEALING LIP WITH ADHESIVE AND FASTENED WITH 16 GAUGE RUST RESISTANT WIRE OR FIBERGLASS CORD ON 12" CENTERS. ON DUCTS OVER 24" WIDE, WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE FOR FASTENING INSULATION.

b. FRESH AIR INTAKE, MIXED AIR DUCTWORK AND LOUVER BLANK-OFF PANELS SHALL BE INSULATED WITH RIGID DUCT INSULATION 2" THICK WITH A MINIMUM R VALUE OF 8, WITH WHITE VINYL FOIL BARRIER FACING SIMILAR TO KNAUF ECLIPSE DUCTBOARD WITH ECOSE. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSULATION SHALL BE IMPALED OVER WELDED PINS WITH CLIPS FIRMLY EMBEDDED INTO INSULATION. ALL JOINTS AND CLIPS SHALL BE SEALED WITH MATCHING STRIPS OF VINYL COATED VAPOR BARRIER LAMINATE SIMILAR TO OWENS CORNING 24 ASJ FOR DUCTS.

c. ALL SEALING TAPE SHALL CONFORM TO UL181A OR UL181B WHEN USED AS PRIMARY SEALANT.

ENERGY ANALYSIS (DUCTWORK INSULATION) CLIMATE ZONE 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE
ALL SUPPLY & RETURN DUCTWORK INSIDE BUILDING	R-VALUE > 6	R-VALUE > 6
FRESH AIR INTAKE DUCTWORK	R-VALUE > 8	R-VALUE > 8
NOTES: ALL SEALING TAPE SHALL CONFORM TO UL-181A OR UL-181B WHEN USED AS A PRIMARY SEALANT.		

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.

REQUIRED INSPECTIONS

SPECIAL INSPECTIONS SHALL BE MADE BY A "SPECIAL INSPECTOR", AN ENGINEER, OR ARCHITECT LICENSED IN NEW YORK STATE WORKING FOR AN APPROVED SPECIAL INSPECTION AGENCY. THE SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS REQUIREMENTS AS DEFINED BY THE NYC BUILDING CODE AND ALL RELEVANT MEMORANDA AND DIRECTIVES THAT APPLY TO THIS WORK. ALL INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH CHAPTER 17 OF THE 2022 NYC BUILDING CODE AND THE DEPARTMENT'S SPECIAL INSPECTIONS RULE.

THE SELECTED CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR AND PERFORMING THE REQUIRED NEW YORK CITY DEPARTMENT OF BUILDINGS SPECIAL INSPECTIONS WITH THE SELECTED EXPEDITOR OF RECORD.

SPECIAL INSPECTIONS ARE REQUIRED FOR:
a) MECHANICAL SYSTEMS (BC 1704.16)
b) FINAL INSPECTION UNDER DIRECTIVE 14
c) ENERGY CODE INSPECTIONS (NYC AND 1RCNYS000)
d) HVAC-R AND SERVICE HEATING EQUIPMENT
e) HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS
f) HVAC-R AND SERVICE WATER PIPING DESIGN & INSULATION

BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE NOVEMBER 7, 2022 AND ALL AMENDMENTS TO DATE, MATERIALS AND EQUIPMENT SUBJECT TO CONTROLLED INSPECTION.

2. MECHANICAL VENTILATION AIR CONDITIONING AND REFRIGERATION: INSPECTION AND TESTS OF THE REQUIRED VENTILATION SYSTEMS AND NOISE CONTROL AS CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE AND CHAPTER 1 OF THE NEW YORK CITY MECHANICAL CODE.

3. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC., SHALL COMPLY WITH THE FOLLOWING CODE REFERENCE.
   3.1. DUCT CONSTRUCTION AND SUPPLY INTAKES, EXHAUST AND RELIEF FILTERS AS PER CHAPTER 6 OF THE 2022 NEW YORK CITY MECHANICAL CODE.
   3.2. NOISE CRITERIA LEVELS AND TEST PROCEDURE FOR SOUND POWER LEVELS AS PER CHAPTER 9, SECTION 928 OF THE 2022 NEW YORK CITY MECHANICAL CODE.
   3.3. ELECTRIC WIRING EQUIPMENT, FIRE CONTROL AND CONTROLS MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON AS PER NEC.
   3.4. 70 DEGREE F WHEN 5 DEGREE OUTSIDE (WITH 15 MPH WIND) AS PER ASHRAE.

4. REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.

5. THE VENTILATION REQUIREMENTS FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS OF CHAPTER 4 (VENTILATION) OF THE NEW YORK CITY MECHANICAL CODE. THE VENTILATION REQUIREMENTS ARE MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND/OR OPENING IN AIR CONDITIONED AREAS.

6. UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR HAVING NOT LESS THAN FIVE (5) YEARS OF EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE WITH THE CERTIFICATION, A REPORT OF THE TEST, THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE. BASE BUILDING PLANS ARE FILED FOR SINGLE TENANT OCCUPANCY. ALL TENANT PLANS WILL BE FILED UNDER SEPARATE APPLICATIONS.

7. DETAIL OF DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE 2022 NEW YORK CITY MECHANICAL CODE. UNLESS OTHERWISE NOTED, ALL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED IRON. SEE DETAIL FOR METHOD USED FOR HANGING DUCT.

8. ALL VENTILATING AND HANGING DUCTWORK, BOTH HIGH AND LOW VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, LATEST EDITION.

9. ALL FIRE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY BOARD OF STANDARDS AND APPEALS AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFU PAMPHLETS 90A AND 90B). FIRE DAMPERS SHALL BE AIR BALANCE AND TESTING CO., B.S.A. CATALOG NO. 100-6-SM OR IF DIFFERENT MANUFACTURED, NUMBER SHALL BE FILED AT THE COMPLETION OF THE INSTALLATION.

10. THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

11. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE.

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

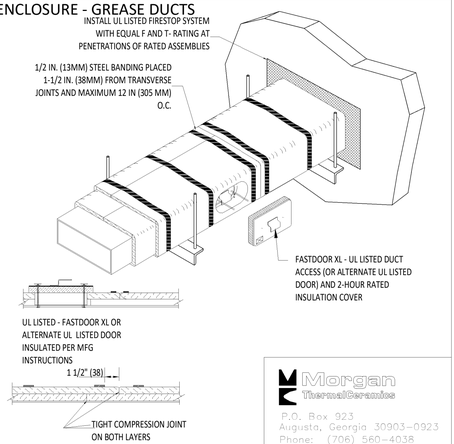
SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M-601.00
10 OF 12

DOB NOW Filing #: S01113212-S1

FIRE RATED ENCLOSURE - GREASE DUCTS

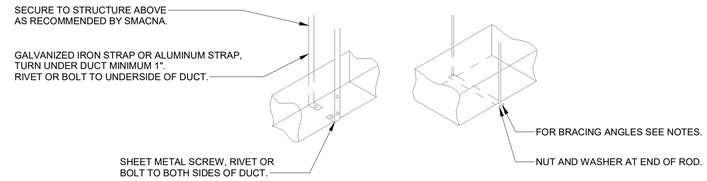
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2- HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   - NFPA 96
   - INTERNATIONAL MECHANICAL CODES
   - UNIFORM MECHANICAL CODE
   - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 12 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



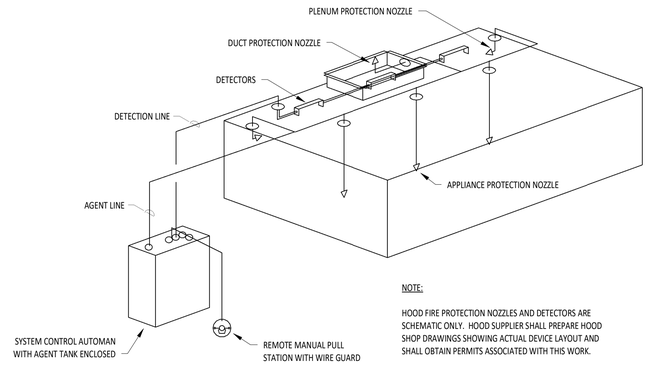
Morgan Thermal Ceramics
P.O. Box 923
Augusta, Georgia 30903-0923
Phone: (706) 560-4038

1 FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)								
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30'	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	12 GA. (0.106")	1"X22 GA.	12 GA. (0.106")
P/2<72"	1"X18 GA.	3/8"	1"X20 GA.	1/4"	1"X22 GA.	1/4"	1"X22 GA.	1/4"
P/2<96"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	3/8"	1"X22 GA.	1/4"
P/2<120"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	1/4"
P/2<168"	1-1/2"X16 GA.	1/2"	1"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"
P/2<192"	-	1/2"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X16 GA.	3/8"



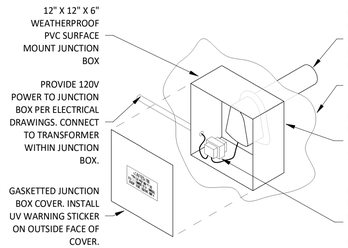
3 HVAC - DUCT HANGER DETAILS
NOT TO SCALE



NOTE:

HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4 HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE

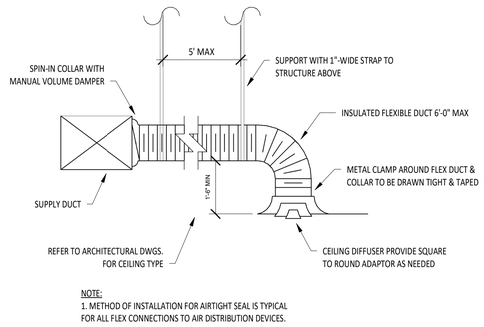


INSTALLATION LOCATION

INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

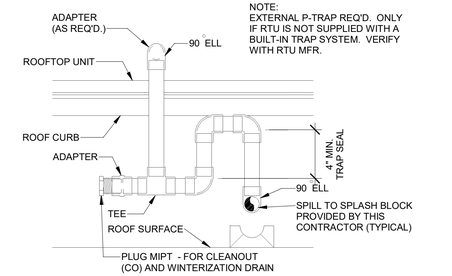
- **TRANE:** INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
- **YORK:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.
- **CARRIER:** INSTALL DOWNSTREAM FROM THE EVAPORATOR, AWAY FROM THE HEAT EXCHANGER. OBTAIN INSTALLATION INSTRUCTIONS FROM CHIPOTLE CM

5 UV AIR PURIFIER INSTALLATION
NOT TO SCALE

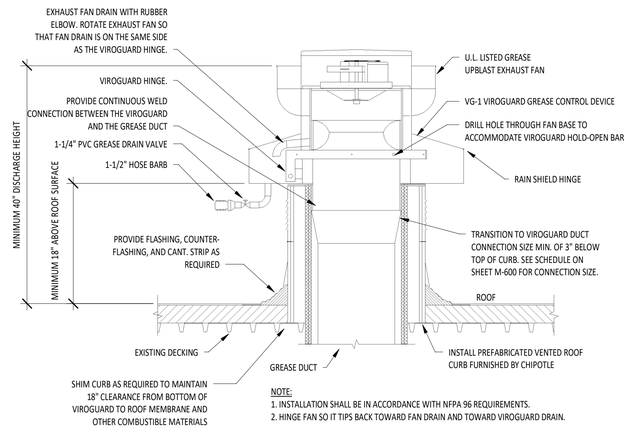


NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

6 HVAC - DIFFUSER CONNECTION
NOT TO SCALE

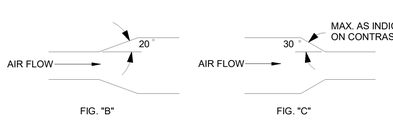


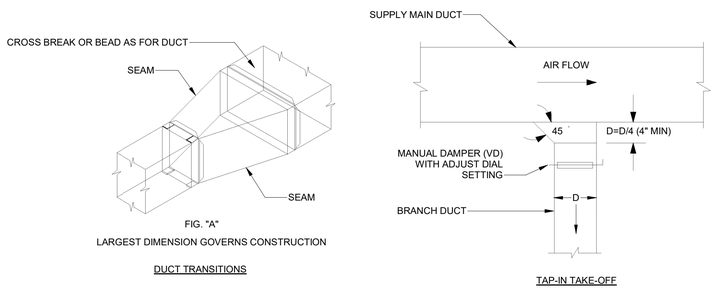
7 HVAC - CONDENSATE PIPING FROM RTU
NOT TO SCALE



NOTE:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

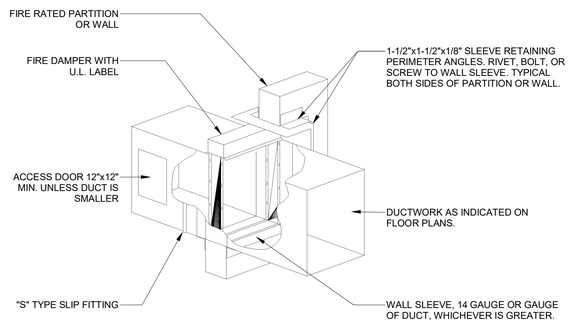
8 GREASE EXHAUST FAN
NOT TO SCALE





NOTE:
1. DUCT TRANSITIONS TYPICAL AFTER EACH TAKE-OFF(S) WHERE CHANGE IN DUCT SIZE IS INDICATED.

9 HVAC - DUCT TRANSITION DETAILS
NOT TO SCALE



NOTES:
1. FIRE DAMPER INSTALLATION FOR VERTICAL AIRFLOW SHALL BE SIMILAR WITH S.S. NEGATOR SPRINGS FOR CLOSURE.

10 HVAC - FIRE DAMPER DETAIL
NOT TO SCALE

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
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12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

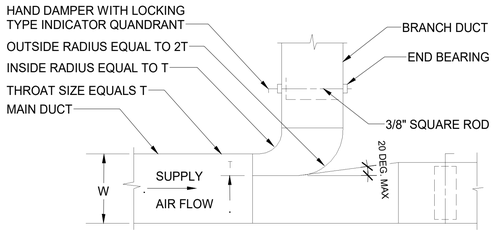
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24023

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M-700.00
11 OF 12

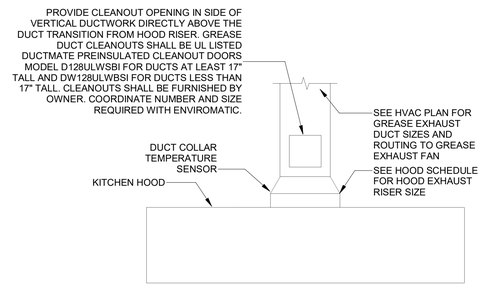
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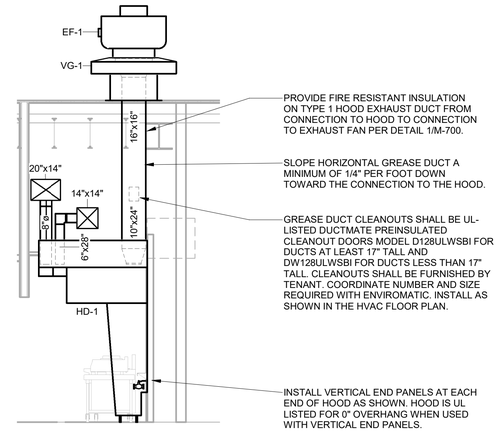


NOTES:
1. FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM.
2. MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
3. MINIMUM T = 4".

1 HVAC - RECTANGULAR DUCT BRANCH
NOT TO SCALE



2 HVAC - GREASE EXHAUST DUCT AT HOOD
NOT TO SCALE

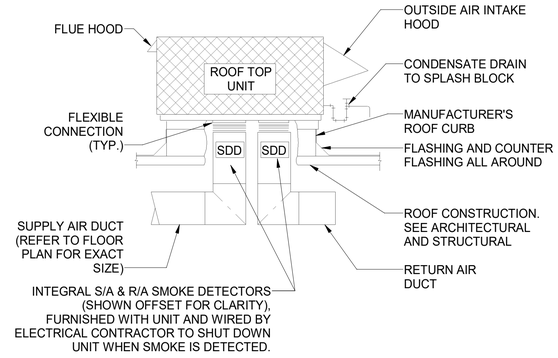


3 HVAC - HOOD DUCTWORK SECTION
1/4" = 1'-0"

4 HVAC - UTENSIL COUNTER DUCTWORK SECTION 'A'
1/4" = 1'-0"

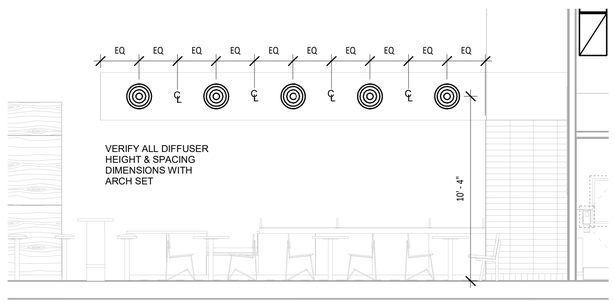
5 HVAC - UTENSIL COUNTER DUCTWORK SECTION ' B'
1/4" = 1'-0"

6 HVAC - ROOF MOUNTED EXHAUST FAN
NOT TO SCALE

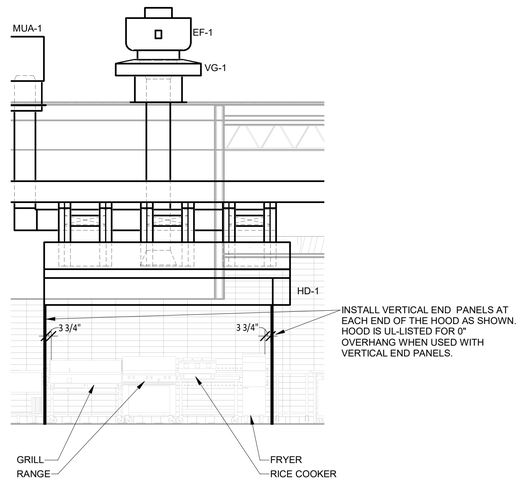


NOTES:
1. THIS DETAIL SHALL SERVE AS A STANDARD FOR INSTALLATION FOR ALL ROOFTOP UNITS. REFER TO FLOOR PLANS FOR EXACT REQUIREMENTS FOR EACH UNIT.
2. ALL ROOF PENETRATIONS ARE BASED ON MANUFACTURERS EQUIPMENT S/A TO R/A OPENING SIZE UNLESS NOTED OTHERWISE. EXTEND FULL SIZE DUCT DOWN TO ABOVE CEILING AND TRANSITION AS SHOWN ON PLANS.

7 HVAC - ROOFTOP UNIT MOUNTING DETAIL
NOT TO SCALE



8 HVAC - DINING ROOM DUCTWORK SECTION 'A'
1/4" = 1'-0"



9 HVAC - HOOD ELEVATION
1/4" = 1'-0"

2024-DB#6/P#1

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M-701.00
12 OF 12

DOB NOW Filing #: S01113212-S1

PLUMBING SPECIFICATIONS

:NYC BUILDING CODE NOTES:

1. ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT WATER DISTRIBUTION AND GAS PIPING SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 N.Y. CITY PLUMBING CODE (NYCPC).

2. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 702.2.

3. PROTECTION OF PIPING PASSING UNDER OR THROUGH FOUNDATION WALLS AS PER SECTION PC 305.

4. TRENCHING, EXCAVATION AND BACKFILL AS PER SECTION PC 306.

5. RAT PROOFING AS PER PC 304.

6. MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 303, PC 605, PC 702, PC 902,PC 1102.

7. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTERS 4, 5, 6, 7 AND 9.

8. DEEP SEAL TRAPS FOR FLOOR DRAINS SHALL BE PROVIDED AS PER PC 1002. & CLEAN-OUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 708.

9. BUILDING HOUSE TRAPS SHALL BE PROVIDED AS PER SECTION PC 1002.

10. DRAINAGE PIPE CLEANOUTS AS PER SECTION PC 708.

11. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 308.

12. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 SECTION PC 601-603, 604, 606, 607, 608, 610.

13. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 7 SECTION PC 701, 704, 705, 706, 707, 708. 711.

14. VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 9 SECTIONS PS 901 THROUGH PC 912 THROUGH PC 917.

15. THE STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 11 SECTION PC 1101 THROUGH 1113.

16. INSPECTION AND TESTING OF PLUMBING AND GAS PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC 107, 312.

17. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC311.

18. GAS PIPING AND EQUIPMENT SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE NEW YORK CITY FUEL GAS CODE.

NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH NEW YORK CITY CODE SECTION RS15 AND DIRECTIVE LOCAL LAW 58/87.

2. ALL PLUMBING WORK SHALL COMPLY WITH THE WATER CONSERVATION LOCAL LAW 29/89.

3. PRIOR TO DISCONNECTING AND CONNECTING NEW WORK TO EXISTING SYSTEMS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE PROPERTY MANAGER, AND OFFER A SCHEDULE OF WORK. SHUT DOWNS AND DRAIN DOWNS MAY BE PERFORMED BY THE PLUMBING CONTRACTOR ONLY AFTER RECEIVING AUTHORIZATION.

4. CONNECTION TO EXISTING SYSTEMS MAY HAVE TO BE MADE AFTER REGULAR WORKING HOURS.

5. ALL WORK SHALL CONFORM TO THE BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET WITH BUILDING CONSTRUCTION MANAGER IN ORDER TO BECOME TOTALLY FAMILIAR WITH BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER.

PIPING INSULATION SCHEDULE

DOMESTIC COLD WATER INSULATION SCHEDULE		DOMESTIC HOT WATER INSULATION SCHEDULE			
PIPE SIZE	MIN. THICKNESS	PIPE SIZE	MIN. THICKNESS	PIPE SIZE	MIN. THICKNESS
LESS THAN 1-1/2"	1/2"	LESS THAN 1-1/2"	1"	ALL SIZES	1"
1-1/2" AND LARGER	1"	1-1/2" AND LARGER	1-1/2"		
BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F		BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F		BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F	

NOTE:
ALL PLUMBING INSULATION MUST MEET THE REQUIREMENTS OF THE 2020 NYC ENERGY CONSERVATION CONSTRUCTION CODE.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE

SECTION 15055 - COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping free of sags and bends.
B. Install fittings for changes in direction and branch connections.
C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install unions adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic hot and cold water.
2. Exposed sanitary drains of fixtures for the disabled.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.
2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.
END OF SECTION 15080

SECTION 15110 - VALVES
PART 1 - GENERAL (Not Applicable)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shutoff duty and ball for throttling duty.
B. Locate valves for easy access and provide separate support where necessary.
C. Install valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
1. Service Entrance Piping: 100 peig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 61 "Drinking Water System Components -- Health Effects."

PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.

2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads complying with ASME B 1.20.1.

2.3 JOINING MATERIALS
A. Solder Filler Metal: ASTM B 32, lead free.
B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.

PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
D. Install swing check valve on discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating loop and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.

PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. Cast Iron Pipe: ASTM A 74, service weight, hub and spigot, hubless.
2.2 FITTINGS
A. Cast Iron: Shall conform to CISPI 301 and ASTM A 888. Gaskets shall conform to ASTM C564. Couplings shall conform to CISPI 310.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15198 - NATURAL GAS PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.
B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: AGA certified, bronze-body, plug type with bronze plug, for 2-psig
E. or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.
F. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, straightaway pattern, square head, tapered-plug type.
G. Gas Pressure Regulators: ANSI Z21.18, single stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensator. Regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated.
1. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
H. Flexible Connectors: ANSI Z21.24, copper alloy.
I. Strainers: Bronze body, Y-pattern, full size of connecting piping. Include stainless-steel screens with 3/64 inch perforations and a pressure rating of 125-psig- minimum, WOG working pressure.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.
C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply.
D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters. Locate where readily accessible to permit cleaning and emptying. Do not install where condensate would be subject to freezing.
E. Install gas piping at uniform slope of 0.1 percent upward toward risers.
F. Use eccentric reducer fittings to make reductions in pipe sizes. Install fittings with level side down.
G. Connect branch piping from top or side of horizontal piping.
H. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
I. Install valves in accessible locations, protected from damage. Tag valves with metal tag indicating piping supplied. Attach tag to valve with metal chain.
J. Install gas valve upstream from each gas pressure regulator. Where two gas-pressure regulators are installed in series, valve is not required at second regulator.
K. Connect gas piping to equipment and appliances with shutoff valves and unions. nstall gas valve upstream from and within 72 inches of each appliance using gas. Install union or flanged connection downstream from valve.
L. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging", and requirements of authorities having jurisdiction.
END OF SECTION 15198

SECTION 15410 - PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
C. Comply with applicable standards below:
1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
2. National Sanitation Foundation Construction: NFS2.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P200
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fitting insulation kits on fixtures for the disabled.
B. Install fixtures with flanges and gasket seals.
C. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.
D. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
E. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
F. Fasten wall mounted fittings to reinforcement built into walls.
G. Fasten counter mounted plumbing fixtures to casework.
H. Secure supplies to supports or substrate within pipe space behind fixture.
I. Set shower receptors and mop basins in leveling bed of cement grout.
J. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
K. Install water supply stop valves in accessible locations.
L. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated.
M. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
N. Seal joints between fixtures and walls, floors, and counters using sanitary type, one part, mildew resistant, silicone sealant. Match sealant color to fixture color.
O. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
P. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15425 - PLUMBING SPECIALTIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Working Pressure Rating for Products:
1. Water Distribution Piping: 80 psig.
B. Submittals: Product Data.
PART 2 - PRODUCTS
2.1 Refer to fixture schedule on drawing P200.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install backflow preventers at each water-supply connection to mechanical equipment and where required by authorities having jurisdiction.
B. Install hose bibbs with integral or field-installed vacuum breaker.
C. Install floor drains at low points of surface areas and where indicated. Set tops of drains flush with finished floor.
1. Trap drains connected to sanitary building drain.
2. Install drain flashing collar or flange so no leakage occurs between drain and adjoining flooring. Maintain integrity of waterproof membranes.
END OF SECTION 15425

SECTION 15554 FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.

PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Size per manufacturer's recommendation.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent pipe straight sections.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.

END OF SECTION 15554

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(E)/EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

2024-DB#6/P#1

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

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PROJECT NUMBER:
24023

SHEET TITLE:
PLUMBING SPECIFICATIONS

SHEET NUMBER:
P-010.00
1 OF 7

DOB NOW Filing #: S01113212-S2

GENERAL NOTES:

A. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

B. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.

C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE HEALTH, GOVERNMENTAL AND LOCAL CODE REQUIREMENTS. SEE SHEET G-001 FOR THE PREVAILING CODES.

D. PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES. COORDINATE LOCATIONS WITH ARCHITECT.

E. COORDINATE ALL SLAB PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.

F. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.

G. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.

H. NOT USED.

I. ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANSI/ASSE 1016 OR 1017.

J. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY LOCAL BARRIER FREE CODE REQUIREMENTS.

K. THE PLUMBING CONTRACTOR SHALL PROVIDE HEAT TRACING TAPE AND INSULATION AS REQUIRED FOR ALL PIPING INSTALLED WITHIN WALK-IN FREEZERS TO PREVENT PIPING FROM FREEZING. THE HEAT TRACING SHALL BE THERMON 10-FLX-1 OR EQUAL. COORDINATE THE INSTALLATION OF THE HEAT TRACING WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

L. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL EQUIPMENT NOT REUSED AS PART OF THE NEW WORK. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS ON ALL MATERIALS AND EQUIPMENT.

M. THE EQUIPMENT LOCATIONS INDICATED ON THIS DRAWING ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE FINAL INTENDED LOCATION OF ALL FLOOR MOUNTED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN.

N. PROVIDE STOP VALVES AT FIXTURES. IN ADDITION, PROVIDE SHUT OFF VALVES FOR ISOLATION OF FIXTURE GROUPS

O. INSULATE THE HOT AND COLD WATER AND CONDENSATE DRAINAGE PER THE SPECIFICATIONS AND DETAIL 2/P-400.

P. PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.

Q. CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON WARM SIDE OF INSULATION.

R. WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DRAWINGS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE SHOWN TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.

S. ALL WATER PIPING SHALL BE COPPER. NO PVC ALLOWED.

T. PERFORM FLOW TEST ON THE INCOMING WATER PRESSURE ON THE DOMESTIC WATER SYSTEM AT POSSESSION. IF WATER PRESSURE IS OVER 80 PSI THEN COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER TO PROVIDE A PRESSURE REGULATOR (WATTS LFU5B-Z3 OR EQUAL). PROVIDE RESULTS OF FLOW TEST TO THE ENGINEER FOR CONFIRMATION OF ADEQUATE CAPACITY.

U. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.

V. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

w. INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILINGS.

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
NATURAL GAS PIPE	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED

PLUMBING SYMBOLS

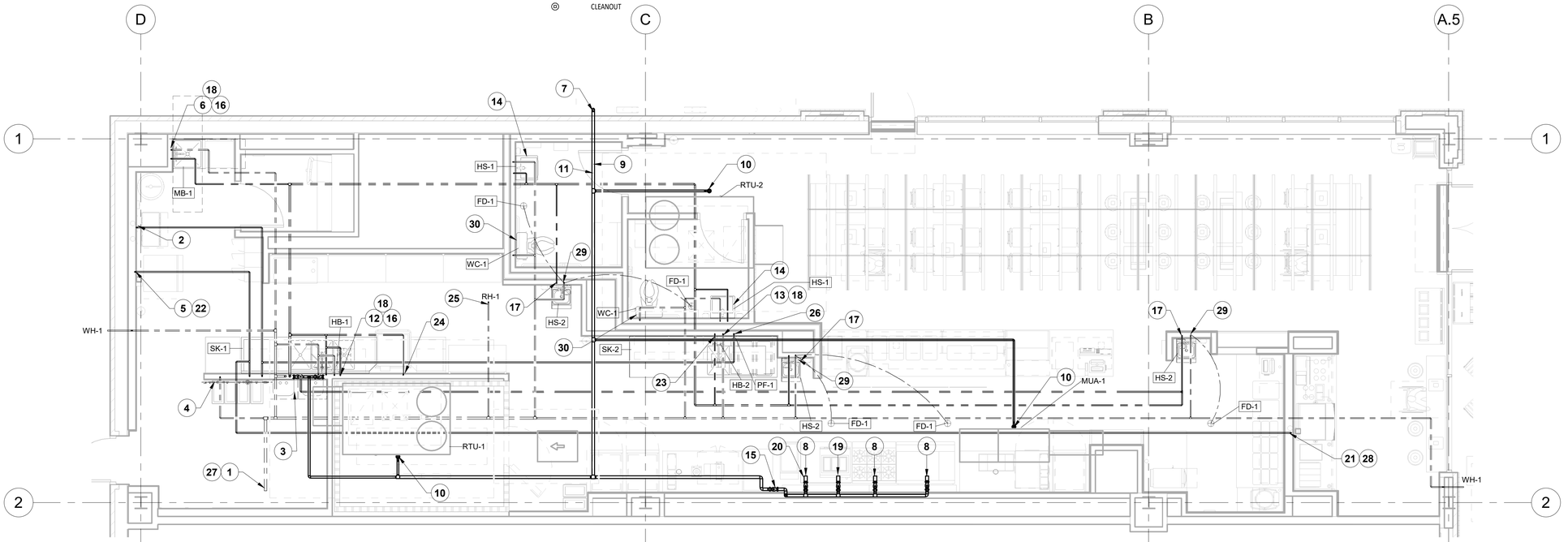
- ELBOW UP
- ELBOW DOWN
- DOMESTIC COLD WATER
- DOMESTIC FILTERED COLD WATER
- DOMESTIC SOFTENED COLD WATER
- DOMESTIC HOT WATER (110 DEGREES)
- DOMESTIC HOT WATER RECIRC.
- GAS
- GAS (ON ROOF)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WATER METER
- GAS METER
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID-OPERATED VALVE
- WALL HYDRANT/ROOF HYDRANT
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- FLOOR DRAIN
- FLOOR SINK
- CLEANOUT

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

1	CONNECT TO EXISTING 2" DOMESTIC WATER SERVICE IN THIS AREA PROVIDED BY LANDLORD. DO NOT RUN PIPING ABOVE ELECTRIC PANELS.
2	PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
3	PROVIDE WATER HEATERS DWH-1 & DWH-2 PER DETAIL 5/P-200. OFFSET FLUE VENTS TO BE 10'0" MINIMUM FROM ANY AIR INTAKES.
4	PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 1/P-401. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5	PROVIDE 1/2" FILTERED WATER TO ICE MAKER AT 56" AFF. PROVIDE 6'-0" LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
6	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
7	CONNECT TO THE EXISTING GAS SERVICE PIPING PROVIDED BY LANDLORD IN THIS AREA.
8	PROVIDE GAS CONNECTION TO THE COOKING EQUIPMENT PER DETAIL 3/P-400.
9	SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 3/P-401. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
10	PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
11	REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF EXPOSED INTERIOR AND EXTERIOR GAS PIPE.
12	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14	PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 4/P-200.
15	PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 5/P-400.
16	CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 11/P-400.
17	PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
18	PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

19	PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 2/P-401.
20	PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
21	PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24"AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
22	INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23	PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
24	PROVIDE 1/2" HOT WATER AT 66" AFF ABOVE LEFT SIDE OF DISH MACHINE, MAKING FINAL CONNECTION USING CONNECTION HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE.
25	PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
26	PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40"AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27	PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE WALL ABOVE THE MAIN DOMESTIC WATER SHUTOFF VALVE.
28	INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29	PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S).
30	REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE-OPERATED HANDLE (FLUSHMATE AP300503 OR AP300504 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).



1 PLUMBING SUPPLY PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L. WILSON · 073765 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
PLUMBING SUPPLY PLAN

SHEET NUMBER:
P-100.00
2 OF 7

DOB NOW Filing #: S01113212-S2

GENERAL NOTES:

A. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

B. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.

C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE HEALTH, GOVERNMENTAL AND LOCAL CODE REQUIREMENTS. SEE SHEET G-001 FOR THE PREVAILING CODES.

D. PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES. COORDINATE LOCATIONS WITH ARCHITECT.

E. ALL SANITARY LINES AND PLUMBING FIXTURES ON THE PROJECT SHALL HAVE AN APPROVED MEANS OF SEWAGE BACKFLOW PREVENTION. FIXTURE SPECIFIC BACKFLOW PREVENTION INCLUDING AIR GAPS AND VACUUM BREAKERS ARE AN ACCEPTABLE MEANS OF BACKFLOW PREVENTION.

F. COORDINATE ALL SLAB PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.

G. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.

H. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.

I. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.

J. PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.

K. ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2" OR IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

L. SANITARY TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN, WASTE, AND VENT (DWV) SYSTEMS.

M. INSTALL SANITARY PIPING 2" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING LARGER THAN 2" AT A SLOPE OF 1/8" PER FOOT.

N. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY LOCAL BARRIER FREE REQUIREMENTS.

O. THE PLUMBING CONTRACTOR SHALL PROVIDE HEAT TRACING TAPE AND INSULATION AS REQUIRED FOR ALL PIPING INSTALLED WITHIN WALK-IN FREEZERS TO PREVENT PIPING FROM FREEZING. THE HEAT TRACING SHALL BE THERMON 10-FLX-1 OR EQUAL. COORDINATE THE INSTALLATION OF THE HEAT TRACING WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

P. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL EQUIPMENT NOT REUSED AS PART OF THE NEW WORK. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS ON ALL MATERIALS AND EQUIPMENT.

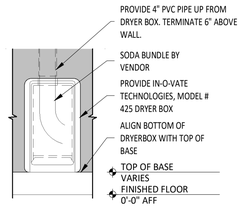
Q. THE EQUIPMENT LOCATIONS INDICATED ON THIS DRAWING ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE FINAL INTENDED LOCATION OF ALL FLOOR MOUNTED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN.

R. PRIOR TO TURNOVER, PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.

S. PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.

T. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.

U. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.



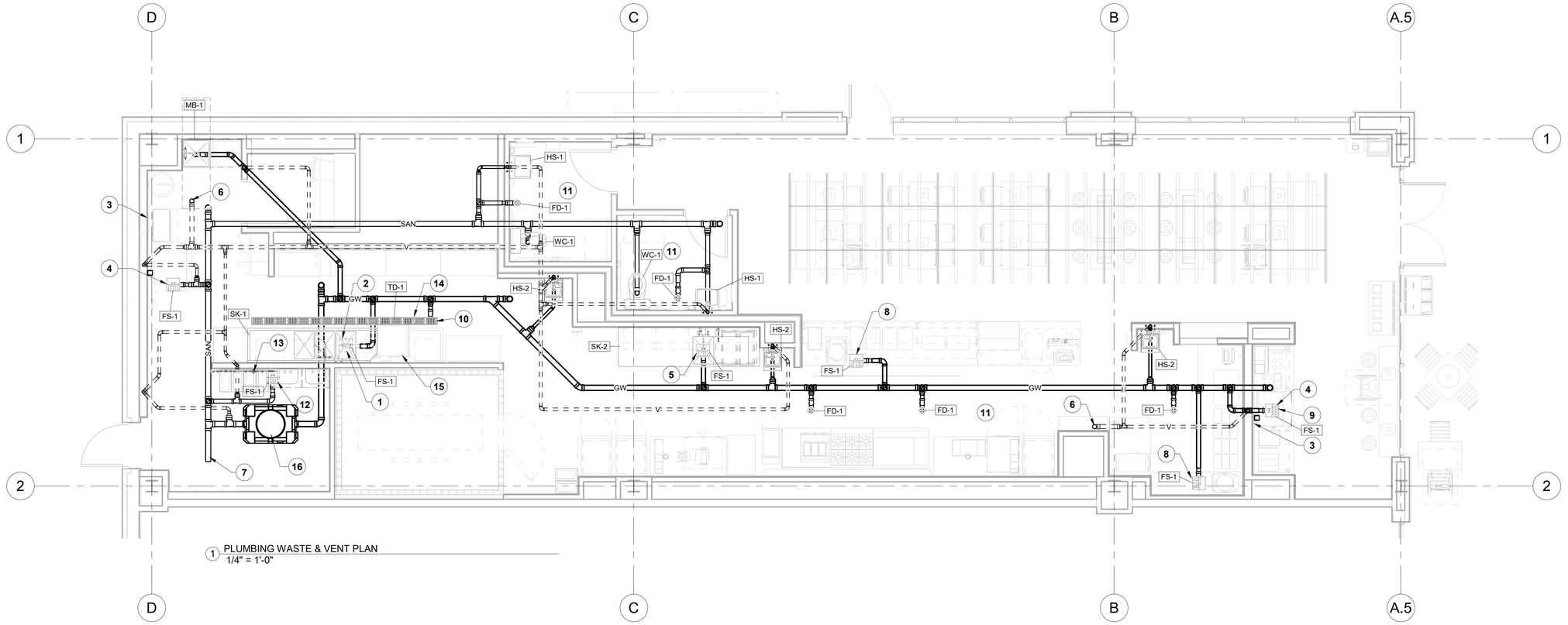
3 SODA TERMINATION DETAIL
NOT TO SCALE

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SANITARY WASTE AND VENT PIPE	ABOVE GROUND, CONCEALED	CAST IRON PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	CAST IRON OR COPPER PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	CAST IRON PIPE AND FITTINGS

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

1	PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE 3-COMP SINK AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.
2	PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 4/P-400.
3	COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL THIS SHEET.
4	PROVIDE DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
5	PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6	PROVIDE 4" VENT THROUGH THE ROOF. SEE DETAIL 1/P-400.
7	CONNECT TO EXISTING 4" SANITARY SEWER PROVIDED BY LANDLORD.
8	PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
9	PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.
10	TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.
11	DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACES COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
12	PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 6/P-400.
13	PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK, CONCEALED IN WALL AS SHOWN IN DETAIL 6/P-400.
14	PROVIDE TRENCH DRAIN PER DETAIL 8/P-400.
15	INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
16	NEW GREASE INTERCEPTOR FLUSH-IN-FLOOR. GREASE INTERCEPTOR PROVIDED BY LANDLORD.



1 PLUMBING WASTE & VENT PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

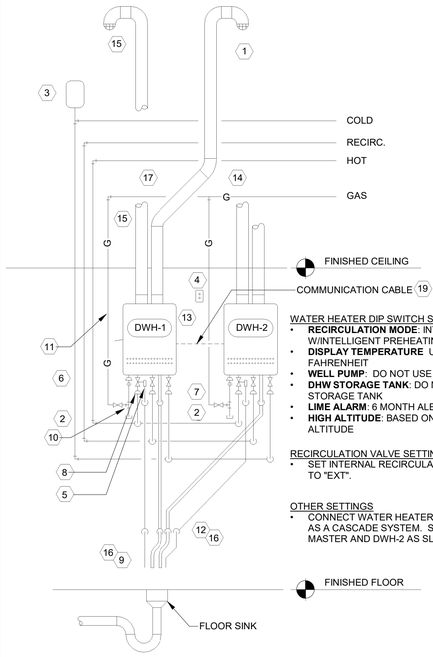
PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
PLUMBING WASTE AND VENT PLAN

SHEET NUMBER:
P-102.00
3 OF 7

DOB NOW Filing #: S01113212-S2



WATER HEATER INSTALLATION NOTES

A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE OWNER.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIALS.
D. SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
E. ADJUST WATER HEATER TO A SETPOINT OF 120° F.

WATER HEATER DIP SWITCH SETTINGS

- **RECIRCULATION MODE**: INTERNAL W/INTELLIGENT PREHEATING.
- **DISPLAY TEMPERATURE** UNIT: FAHRENHEIT
- **WELL PUMP**: DO NOT USE WELL PUMP
- **DHW STORAGE TANK**: DO NOT USE STORAGE TANK
- **LIME ALARM**: 6 MONTH ALERT
- **HIGH ALTITUDE**: BASED ON PROJECT ALTITUDE

RECIRCULATION VALVE SETTING

- SET INTERNAL RECIRCULATION VALVE TO "EXT".

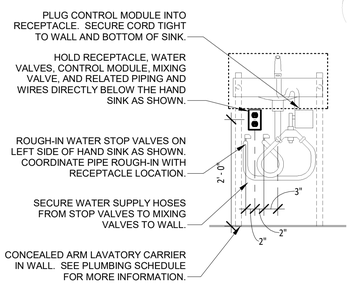
OTHER SETTINGS

- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.

WATER HEATER DETAIL NOTES (TYPICAL EACH UNIT)

1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ROUGH IN COLD, HOT, AND RECIRC WATER PIPES AT 64" AND GAS AT 61" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING, FASTEN CORD TIGHT TO THE WALL.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO FLOOR DRAIN OR MOP BASIN.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE CONCEALED WATER PIPING. DO NOT PROVIDE INSULATION ON EXPOSED WATER PIPING AT WATER HEATERS.
7. INSTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS ARE LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE FLOOR DRAIN OR MOP BASIN. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZED GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" PVC FROM THE FLUE CONDENSATE CONNECTION TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER BETWEEN 9" & 12" OF THE FINISHED CEILING.
14. PROVIDE A 3" Ø PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE DRAIN TEE.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF LINE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 6/P-400.
17. OFFSET FLUE VENT AS REQUIRED TO MAINTAIN 10'-0" BETWEEN FLUE TERMINATION AND ANY OUTDOOR AIR INTAKES.
18. IF WATER HEATERS ARE INSTALLED WITH A COMMON VENT SYSTEM THEN PROVIDE THE NAVIEN COMMON VENT COLLAR KIT WITH BACK-DRAFT DAMPER PER THE MANUFACTURER'S INSTALLATION MANUAL.
19. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.

5 WATER HEATER HOOK-UP
NOT TO SCALE



4 RESTROOM HAND SINK DETAIL
NOT TO SCALE

PLUMBING FIXTURE / EQUIPMENT SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONNECTION SIZES			FIXTURE UNITS (EACH)		
					HW	CW	WASTE	CW	HW	SAN
WC-1	WATER CLOSET	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.1 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD RA TO THE MODEL # FOR RIGHT HAND TRIP LEVER).	--	1/2"	3"	10	--	6
HS-1A	RESTROOM HAND SINK	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. PROVIDE TRUEBRO 103 E-Z PIPE INSULATION, PROVIDE OFFSET GRID DRAIN. APPROVED ALTERNATE: KOHLER K-2084.	1/2"	1/2"	1 1/4"	1.5	1.5	1
HS-1B	RESTROOM HAND SINK FAUCET	FURNISHED BY KES	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	1/2"	1/2"	0"	1.5	1.5	0
HS-2	KITCHEN HAND SINK	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET, T&S BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK.	1/2"	1/2"	1 1/2"	3.0	3.0	2
MB-1	MOP BASIN	FIAT	MSB2424	PROVIDE 24" X 24" X 10" MOLDED STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	--	--	3"	--	--	5
MB-1A	MOP BASIN FAUCET	KES	--	INSTALL SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE FURNISHED BY KES.	1/2"	1/2"	--	2.25	2.25	0
FD-1	FLOOR DRAIN	SIOUX CHIEF	842-2-PNR	ADJUSTABLE CAST IRON FLOOR DRAIN WITH DECK FLANGE, ROUND POLISHED METAL RING AND STRAINER. TRAP PRIMER CONNECTION	--	--	SEE PLANS	--	--	5
FS-1	FLOOR SINK	SIOUX CHIEF	861-23-D	HEAVY DUTY CAST IRON FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF CAST IRON GRATE	--	--	SEE PLANS	--	--	5
SK-1	THREE COMPARTMENT SINK	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD ON FAUCET.	1/2"	1/2"	TO FS	1.5	1.5	--
SK-2	PREP SINK	FURNISHED BY KES	--	STAINLESS STEEL CHEF'S TABLE WITH INTEGRAL PREP SINK. FAUCET T&S MODEL #B-0293 WITH B-0199-01 AERATOR AT 2.2 GPM.	3/4"	3/4"	TO FS	1.5	1.5	--
ET-1	EXPANSION TANK	AMTROL	ST-5	2 GALLON CAPACITY	--	1/2"	--	--	--	--
P-1	RECIRCULATING PUMP	TACO	003-BC4-PNP	DOMESTIC HOT WATER CARTRIDGE-TYPE CIRCULATOR WITH INTEGRAL TIMER. PROVIDE WITH AQUASTAT 115 VOLTS, 1 PH, 60 HZ, 1 GPM SET AT 100°F.	1/2"	--	--	--	--	--
HB-1	HOSE BIBB	FURNISHED BY KES	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT WITH AN INTEGRAL VACUUM BREAKER. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	3/4"	3/4"	--	1.87	1.87	--
HB-2	HOSE BIBB	FURNISHED BY KES	--	SILL FAUCET WITH 1/2"NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET		1/2"	--	1.5	1.5	--
WCO	WALL CLEANOUT	ZURN	Z1446	WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. MOUTING HEIGHT SET AT 24" A.F.F.	--	--	--	--	--	--
FCO	FLOOR CLEANOUT	SIOUX CHIEF	852-3PNR (3") 852-4PNR (4")	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	--	--	--	--	--	
WH1	FREEZE PROOF WALL HYDRANT	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER.		3/4"				
RH1	FREEZE PROOF ROOF HYDRANT	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.		3/4"				
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	--	1/2"	--	--	--	--
~~FNL-1~~	~~FUNNEL DRAIN~~	~~J. R. SMITH~~	~~3823T~~	~~FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET~~			2"			
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	--	1/2"	--	--	--	--
GI	GREASE INTERCEPTOR	SCHIER	GB-75	75 GPM, 861 LBS GREASE CAPACITY. PROVIDE WITH FIELD CUT COLLAR RISERS TO MATCH FINISHED FLOOR ELEVATION.			4"			
TD-1	TRENCH DRAIN	ZURN	Z886 8601 8602	6" x 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL 8/P400 FOR REDUCTION TO 2" DRAIN CONNECTION.	--	--	2"	--	--	2
PF-1	POT FILLER	FURNISHED BY KES	--	WALL-MOUNTED POT FILLER WITH SELF CLOSING FILLER VALVE AND 3/8" NPT FEMAILE INLET	--	1/2"	--	1.5	--	--

GAS WATER HEATER SCHEDULE - INSTANTANEOUS

MARK	DESCRIPTION	MANUFACTURER AND MODEL NO.	INPUT MBH	DELIVERY	NOTES
DWH-1 & 2	DIRECT VENT GAS FIRED INSTANTANEOUS WATER HEATER	NAVIEN NPE-240A2	199	5.6 GPM @ 65° RISE	PROVIDE WITH REMOTE CONTROLLER AND LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

VALVE SCHEDULE

TYPE	MANUFACTURER	THREADED/FLANGED PIPING		SOLDERED/BRAZED PIPING
		2" AND SMALLER	2-1/2" AND LARGER	3" AND SMALLER
BALL	JENKINS	901A	---	902A
	MILWAUKEE	BA100	---	BA150
	STOCKHAM	S-216-BR1-R-T	---	S-216-BR1-R-S
CHECK	JENKINS	4092	624-C	4093
	MILWAUKEE	509	F2974	1509
	STOCKHAM	B-319	G-931	B-309
AUTOMATIC BALANCING	HAYS	43-45-2510-0.50-P/T	N.A.	N.A.

NOTES:
1. VALVES MATERIAL (BODIES, DISC, GASKETS, LININGS, PACKINGS, ETC.) SHALL BE APPROVED FOR THE SERVICE IN WHICH THEY ARE INSTALLED.
2. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE INDICATED.
3. VALVES SHALL BE EQUIPPED WITH ACCESSORIES AS REQUIRED.

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L. WILSON · 073765 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

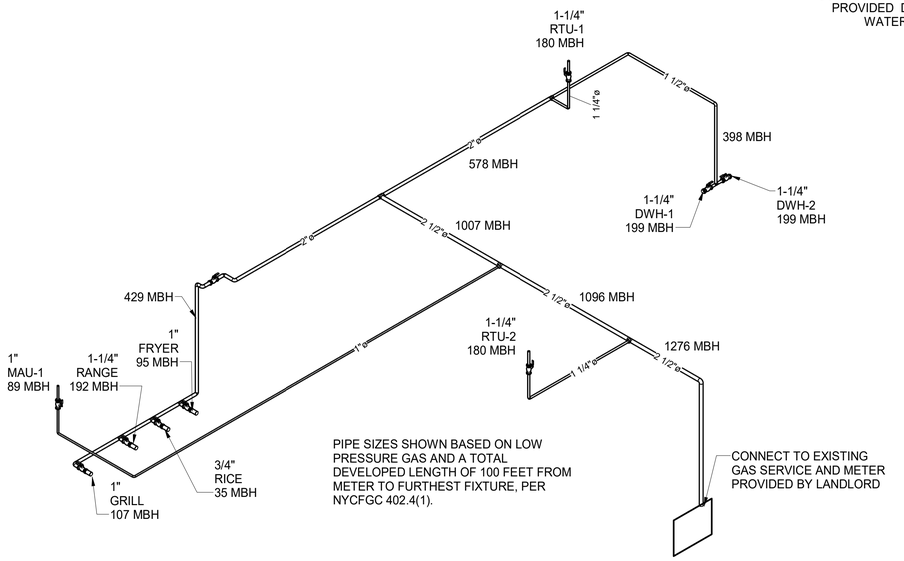
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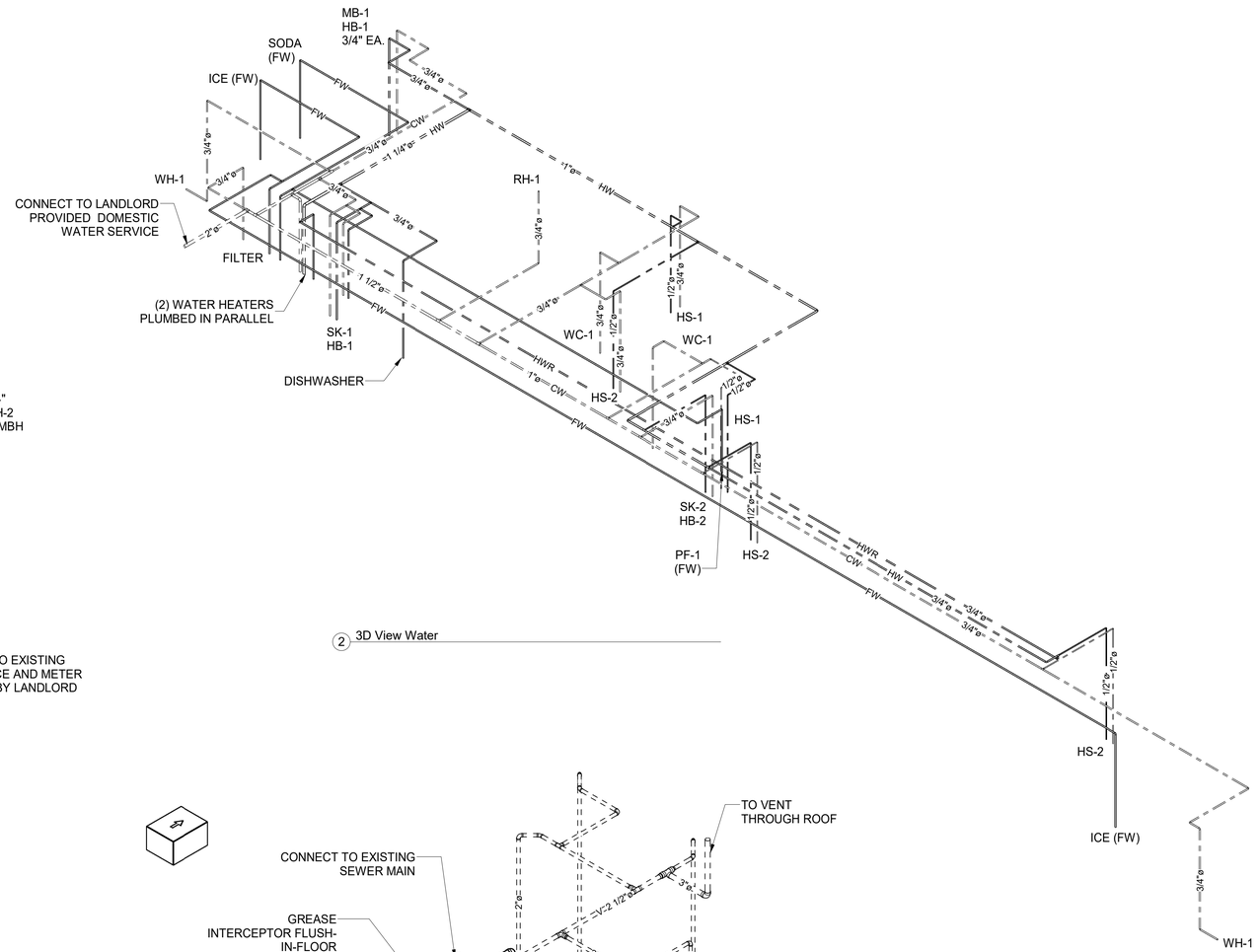
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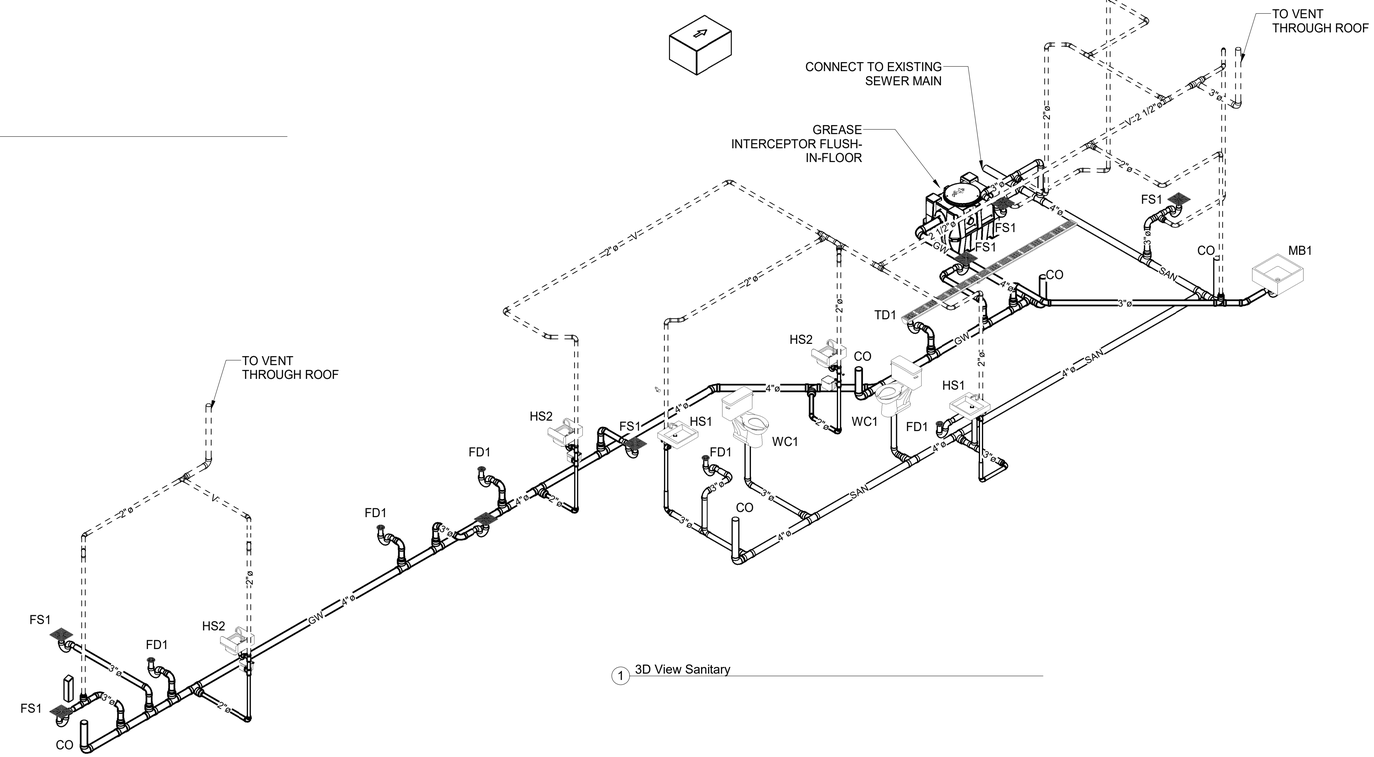
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3 3D View Gas



2 3D View Water



1 3D View Sanitary

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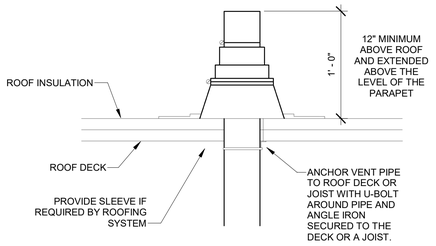
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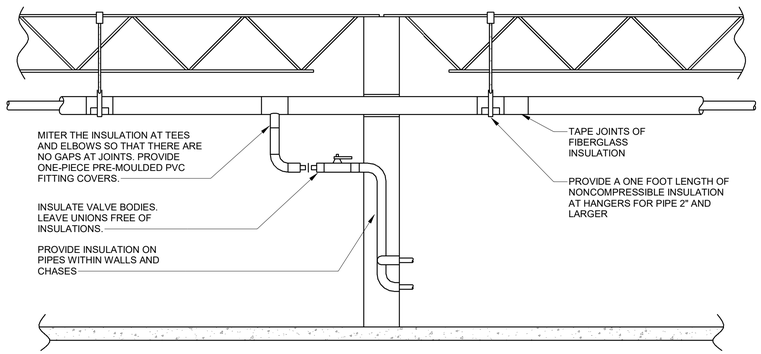
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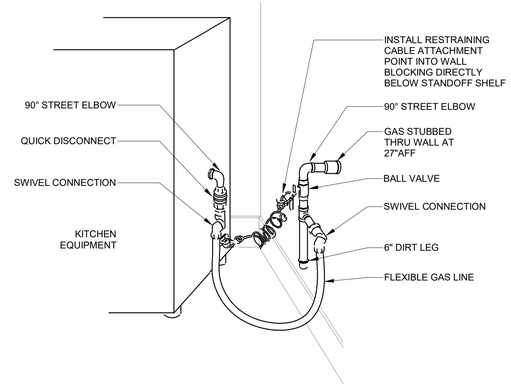
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTALY OR THREE FEET VERTICALLY ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

1 VENT THROUGH ROOF
NOT TO SCALE



PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. UNLESS NOTED OTHERWISE PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

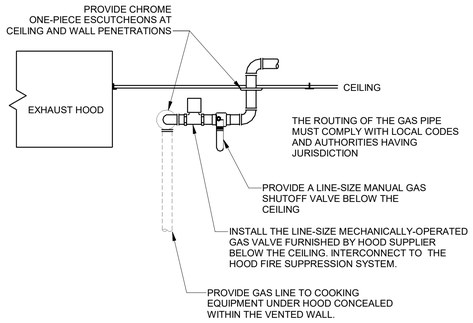
2 PIPE INSULATION DETAIL
NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

3 KITCHEN GAS EQUIPMENT DETAIL
NOT TO SCALE

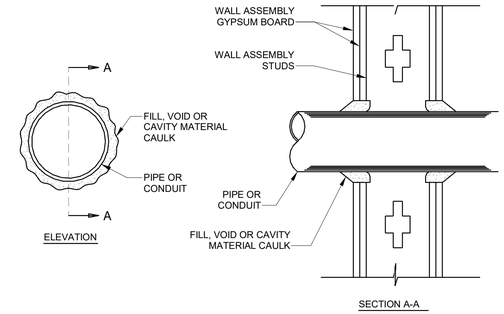
4 WARE-WASHING SINK DETAIL
NOT TO SCALE



SEQUENCE OF OPERATIONS
NORMAL MODE:
DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.
EMERGENCY MODE:
UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

5 KITCHEN GAS SHUTOFF DETAIL
NOT TO SCALE

6 INDIRECT WASTE PIPING DETAIL
NOT TO SCALE



NOTE:
DETAIL FOR THROUGH PENETRATION OF A GYPSUM WALL WITH A FIRE RATING OF1, 2, 3, OR 4 HOURS BY METAL PIPE OR CONDUIT WITH SIZES OF 12" OR LESS FOR STEEL PIPE, 12" OR LESS FOR CAST IRON SOIL PIPE, 12" OR LESS FOR DUCTILE IRON PRESSURE PIPE, 6" OR LESS FOR STEEL CONDUIT, 4" OR LESS FOR STEEL ELECTRICAL METALLIC TUBING, 6" OR LESS FOR COPPER TUBING AND 1" OR LESS FOR FLEXIBLE STEEL CONDUIT.

7 THROUGH PENETRATION DETAIL W-L-1001
NOT TO SCALE

8 TRENCH DRAIN DETAIL
NOT TO SCALE

PROVIDE FLOOR CLEANOUTS WHERE SHOWN ON PLANS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. PROVIDE ROUND SECURED ADJUSTABLE TOP WITH "CO" ON COVER THAT IS SUITABLE FOR THE FLOOR FINISH (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS).

9 FLOOR CLEANOUT DETAIL
NOT TO SCALE

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

10 PIPE INSULATION/HANGER DETAIL
NOT TO SCALE

11 CHEMICAL DISPENSER DETAIL
NOT TO SCALE

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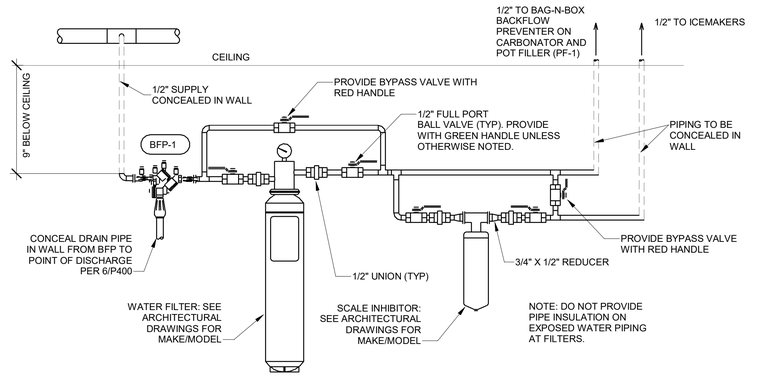
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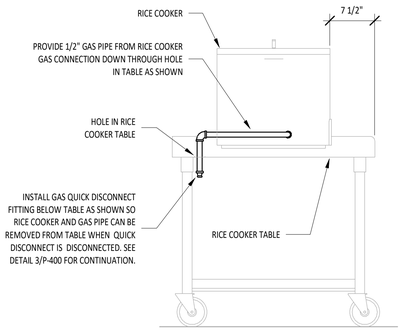
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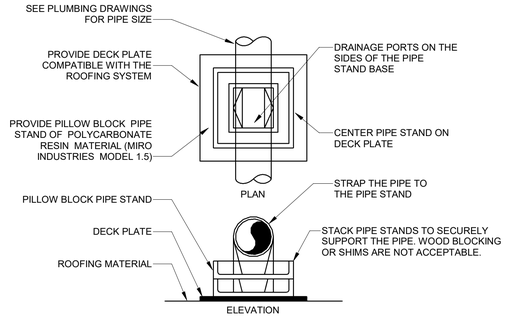
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1 WATER FILTRATION
NOT TO SCALE



2 RICE COOKER GAS CONNECTION DETAIL
NOT TO SCALE



PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"=6', 3/4"-1"=8'; 1 1/4" AND LARGER=10'. PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

3 ROOFTOP PIPING SUPPORT
NOT TO SCALE

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L. WILSON · 073765-1 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P-401.00
7 OF 7

DOB NOW Filing #: S01113212-S2

ELECTRICAL SPECIFICATIONS

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
1.2 SUMMARY
A. This section includes temporary lighting and power with luminaries, panelboards, circuit breakers. and enclosures.
B. Related sections include the following:
1. Division 16 Section "Grounding".
2. Division 16 Section "Wiring Devices"
3. Division 16 Section "Circuit Breakers"
4. Division 16 Section "Panel boards"
1.3 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.4 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Owner, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
1. Owner's construction forces.
2. Occupants of Project.
3. Architect.
4. Engineer.
5. Testing agencies.
6. Personnel of authorities having jurisdiction.
B. Permanent Service: Coordinate with building owner and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.
1.5 NOTIFICATION
A. Coordinate with owner to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.6 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6, NECA's 'Temporary Electrical Facilities," and NFPA 241.
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
2. Electric Service; Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Comply with OSHA standards and regulations.
PART 2 PRODUCTS
2.1 MATERIALS
A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
C. Main panelboard with disconnect.
D. Temporary lighting.
E. 120 volt receptacles with overcurrent protection.
F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
1. Outdoor Locations: NEMA 250, Type 3R.
PART 3 EXECUTION
3.1 INSTALLATION
A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
3. Provide metal conduit enclosures or boxes for wiring devices.
4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Provide one 100-W incandescent lamp every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.
4. Install lighting for Project identification sign.
END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
1. Comply with UL 467.
PART 2 - PRODUCTS
2.1 GROUNDING CONDUCTORS
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
B. Material: Copper.
C. Equipment Grounding Conductors: Insulated with green-colored insulation.
D. Grounding Electrode Conductors: Stranded cable.
E. Bare Copper Conductors: Comply with the following:
1. Solid Conductors: ASTM B 3.
2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTOR PRODUCTS
A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
A. Use only copper conductors.
B. In raceways, use insulated equipment grounding conductors.
C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
3.2 EQUIPMENT GROUNDING CONDUCTORS
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3.3 INSTALLATION
A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
3.4 CONNECTIONS
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
END OF SECTION 16060

SECTION 16100 - WIRING METHODS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
PART 2 - PRODUCTS
2.1 WIRES AND CABLES
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.
2.2 RACEWAYS
A. Wireways: Screwed cover type, with manufacturers standard finish.
B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.
2.3 ENCLOSURES
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation.
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
K. Stub-up Connections for Equipment: Extend conductors to equipment with intermediate metal conduit; flexible metal conduit may be used 6 inches above the floor.
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.
3.2 IDENTIFICATION MATERIALS AND DEVICES
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
C. Identify raceways and cables with color banding as follows:
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
a. Telecommunication System: Green and yellow.
D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:
120/208V
1. Phase A: Black
2. Phase B: Red
3. Phase C: Blue
4. Neutral: White
5. Ground: Green
END OF SECTION 16100

SECTION 16140 - WIRING DEVICES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NEMA WD 1.
C. Comply with NFPA 70.
PART 2 - PRODUCTS
2.1 DEVICES
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
B. Color: Per Material Schedule on sheet E010.
C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
E. Isolated-Ground Receptacles: to the green grounding screw isolation from mounting strap. Equipment grounding contacts connected only terminal of the device with inherent electrical
F. Snap Switches: Heavy-duty, quiet type.
G. Wall Plate: Per Material Schedule on sheet E010.
H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush, with long dimension vertical, of receptacles on top unless otherwise indicated. under single, multigang wall plates.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete.
END OF SECTION 16140

SECTION 16410 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS
PART 1 GENERAL (Not Applicable)
PART 2 PRODUCTS
2.1 SWITCHES
A. Enclosed, Nonfusible Switch: NEMA KS 1, Type HD, with lockable handle.
2.2 CIRCUIT BREAKERS
B. Enclosed, Molded-Case Circuit Breaker: NEMA AB 1, with thermal-magnetic trip unless otherwise indicated.
1. Characteristics: Frame size, trip rating, number of poles, and auxiliary devices as indicated.
2. Interrupting Rating: PER DRAWINGS
3. Thermal-Magnetic Circuit Breakers, 225 A and Larger: Trip units fixed
4. Current-Limiting Trips: Let-through ratings less than NEMA FU 1, Class RK-5.
5. Enclosure: NEMA AB 1, Type 1, unless otherwise specified or required to meet environmental conditions of installed location.
PART 3 - EXECUTION
3.1 TESTING
C. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.
END OF SECTION 16410

SECTION 16442 - PANELBOARDS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1.
PART 2 - PRODUCTS
2.1 PANELBOARDS AND LOAD CENTERS
A. A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
a. Square D Co.
b. Eaton Corp.; Cutler-Hammer Products.
c. General Electric Co.; Electrical Distribution & Control Div.
d. Siemens Energy & Automation.
B. Recessed, NEMA PB 1, Type 1.
1. Load Center Capacity: as shown on drawings.
2. Front: Secured to box with concealed trim clamps.
3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
4. Bus: Hard drawn copper of 98 percent conductivity.
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
D. Contactors: NEMA ICS 2, Class A combination contactors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Indicate installed circuit loads in English and Spanish on a typed circuit directory after balancing panelboard loads.
B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.
END OF SECTION 16442

SECTION 16500 - LIGHTING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals:
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Set units level, plumb, and square with ceiling and walls, and secure.
B. Support for Recessed and Semirecessed Grid-Type Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.
END OF SECTION 16500

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
(E)/EXT'G	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEM SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- X/Y/Z — DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
- JUNCTION BOX
- ELECTRIC PANELBOARD
- $ — GENERAL PURPOSE 1-POLE SWITCH
- $ M — MANUAL STARTER WITH PILOT LIGHT
- $ WP — WEATHER-PROOF SWITCH
- $ D — WALL MOUNTED DIMMER SWITCH
- $ OC — OCCUPANCY SENSOR ACTIVATED WALL SWITCH
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- IG/GFI — NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRGRY(GRAY)
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUITS WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.
- DC — SECURITY SYSTEM DOOR CONTACT: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.
- CO — CARBON MONOXIDE DETECTOR

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIALS
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	FIELD-MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CORD WITH CU CONDUCTORS
CONDUIT	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT, EXPOSED WET OR DAMP LOCATIONS	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT, (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	LOW VOLTAGE, INDOOR ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (PVC SCH.40)
WIRING DEVICES	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACE	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON RICHLITE, HOT ROLLED STEEL, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE
	IG OR IG/GFCI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE

2024-DB#6/P#1

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET NUMBER:
E-010.00
1 OF 8

GENERAL LIGHTING NOTES:

A. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH 2011 NYC ELECTRICAL CODE WITH LOCAL AMENDMENT AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G-001 FOR THE PREVAILING CODES.

B. WIRING SHALL BE TWO #12, #12 GROUND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

C. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.

D. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.

E. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.

F. ALL EXPOSED CONDUITS SHALL BE INSTALLED 1/2" FROM THE WALL.

G. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

H. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.

I. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.

J. RECESSED BOXES AND CONDUITS CONCEALED WITHIN WALLS OR FLOORS THAT ARE TO REMAIN ARE PERMITTED TO BE ABANDONED IN PLACE ONLY IF THE OPENINGS ARE PATCHED AND THE CONDUCTORS ARE REMOVED.

K. THE OWNER SHALL HAVE FIRST SALVAGE RIGHT ON ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS THE OWNER REJECTS.

L. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.

M. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.

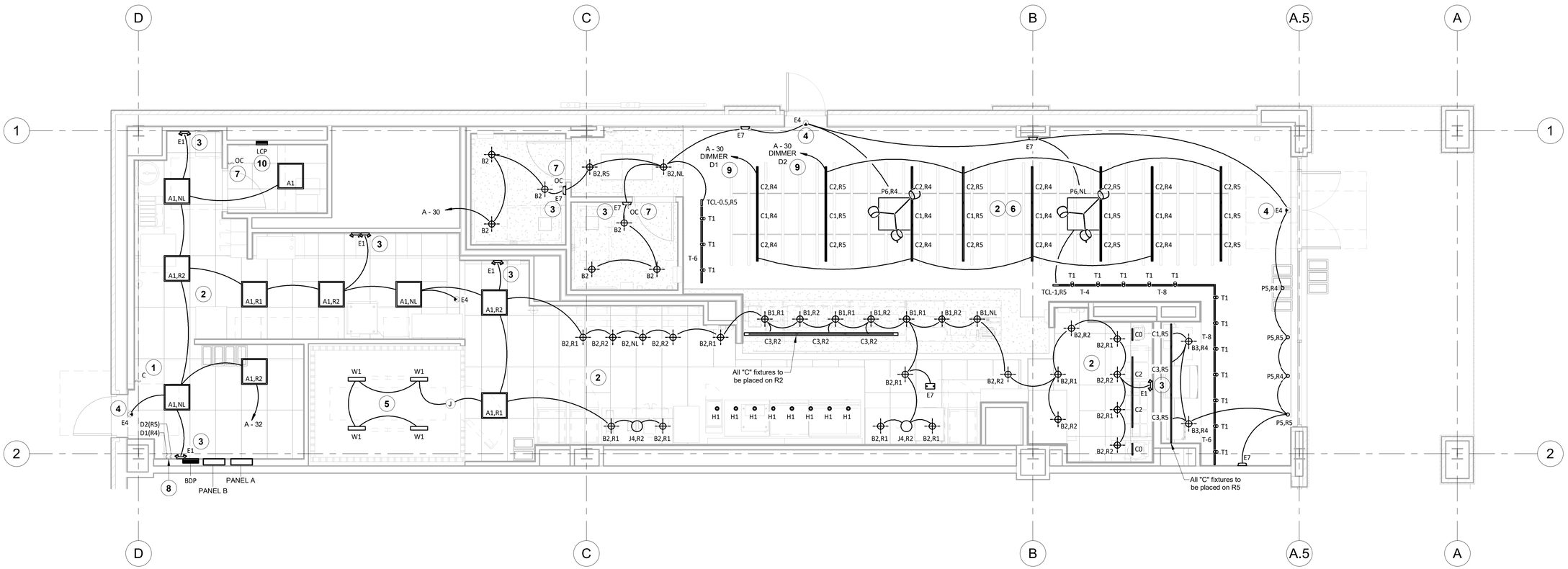
N. LUMINAIRES MARKED "EX" ARE EXISTING LUMINAIRES THAT ARE TO REMAIN IN PLACE. ALL EXISTING LUMINAIRES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE-NEW CONDITION, THOROUGHLY CLEANED, AND RELAMPED. ANY EXISTING LUMINAIRES THAT ARE DAMAGED BEYOND REPAIR SHALL BE REPLACED WITH AN IDENTICAL LUMINAIRE.

O. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL PLANS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

P. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

Q. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS AND NIGHTLIGHTS AHEAD OF LOCAL SWITCHES.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	INSTALL WALL MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP. SEE SHEET E-101.
2	CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3	WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
4	VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5	INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
6	PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
7	INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42"AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIME OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
8	INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
9	CONNECT DINING ROOM (RELAY CIRCUITS R4 & R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
10	INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 1/E-101.



1 LIGHTING PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

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STATE OF NEW YORK · MICHAEL L. WILSON · 073765 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
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PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
E-100.00
2 OF 8

LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	BASIS FOR DESIGN			REMARKS
						MANUFACTURER	MODEL	LAMP	
A1	10	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	NORA LIGHTING	NPDBL-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27K-25 D LED (25°-2700K) W/ GU 24 BASE	
B2	26	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	2	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C1	9	LOW PROFILE LED - 2 FT	SURFACE	120 V	9 W	HERA LIGHTING	EL/LED/22/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	18	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	5	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	5	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E4	4	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	EXITRONIX	CLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	6	EMERGENCY LIGHT	VARIOUS	120 V	2 W	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
H1	8	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	BARNLIGHT	BLE-C-8RN-100-ASH-SBK-10 0-NA-GU24	GREEN CREATIVE 9A19DIM/927/GU24/R	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P5	4	PENDANT	PENDANT	120 V	5 W	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	2	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
T1	15	TRACK HEAD	TRACK	120 V	10 W	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-4	1	TRACK (4 FT)	SURFACE	120 V	0 W	JUNO	T 4FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-6	2	TRACK (6 FT)	SURFACE	120 V	0 W	JUNO	T 6FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-8	2	TRACK (8 FT)	SURFACE	120 V	0 W	JUNO	T 8FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	1	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
TCL-1	1	TRACK CURRENT LIMITER (120W)	SURFACE	120 V	0 W	JUNO	TCLFM11 BL W/ TCLCB 1A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE GENERAL NOTES

A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR LIGHT FIXTURE CONSTRUCTION DETAILS.

LIGHTING CONTROL PANEL SCHEDULE: LCP

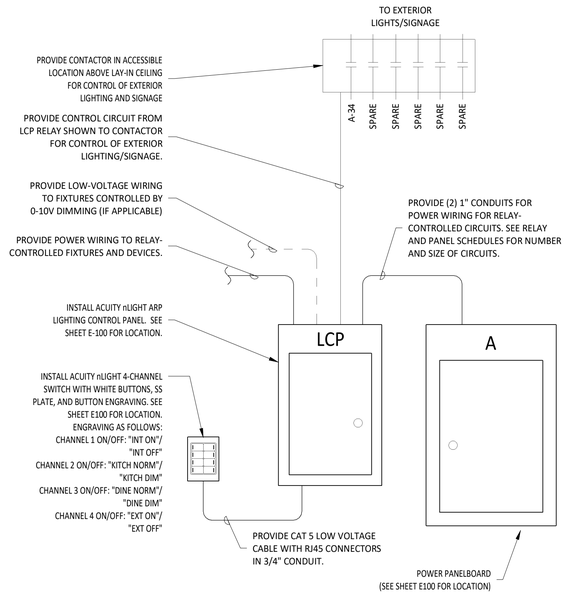
RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE				N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6			SPARE				N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES

A. DUPLICATE PANEL SCHEDULE AND PERMANENTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8SPR MVOLT FM DTC	8 RELAY PANEL FOR ON/OFF CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	1	TLS	GC	ACUITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING



1 ELEC-LIGHTING CONTROL DIAGRAM
NOT TO SCALE

SEQUENCE OF OPERATIONS

A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4 & R5) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM ONE HOUR BEFORE SUNSET UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITON. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KTICHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAYS R1 & R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAY R4 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R8 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
K. VERIFY THAT TIME, TIME ZONE AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
LIGHTING CONTROLS

SHEET NUMBER:
E-101.00
3 OF 8

2024-DB#6/P#1

GENERAL POWER AND SYSTEMS NOTES:

A. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH 2011 NYC ELECTRICAL CODE (2011 NYCEC) WITH LOCAL AMENDMENTS AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G-001 FOR THE PREVAILING CODES.

B. WIRING SHALL BE TWO #12, #12 GROUND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

C. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.

D. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.

E. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.

F. ALL EXPOSED CONDUITS SHALL BE INSTALLED 1/2" FROM THE WALL.

G. COORDINATE ALL KITCHEN EQUIPMENT REQUIREMENTS AND DEVICE LOCATIONS WITH THE FOODSERVICE CONTRACTOR PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.

H. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

I. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.

J. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.

K. RECESSED BOXES AND CONDUITS CONCEALED WITHIN WALLS OR FLOORS THAT ARE TO REMAIN ARE PERMITTED TO BE ABANDONED IN PLACE ONLY IF THE OPENINGS ARE PATCHED AND THE CONDUCTORS ARE REMOVED.

L. THE OWNER SHALL HAVE FIRST SALVAGE RIGHT ON ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS THE OWNER REJECTS.

M. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.

N. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.

O. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL PLANS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES (WHITE WITH BLACK LETTERING).

P. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

Q. PROVIDE 1" CONDUIT WITH PULLSTRING FROM EACH JUNCTION BOX FOR TELEPHONE OR DATA JACK TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE ON E-010 FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE ABOVE OFFICE CEILING WITH CONDUIT BUSHING.

R. IF THERE ARE RATED ASSEMBLIES WITHIN CHIPOTLE'S SPACE COORDINATE ANY REQUIRED CONDUIT RUNS WITH SECURITY VENDOR.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

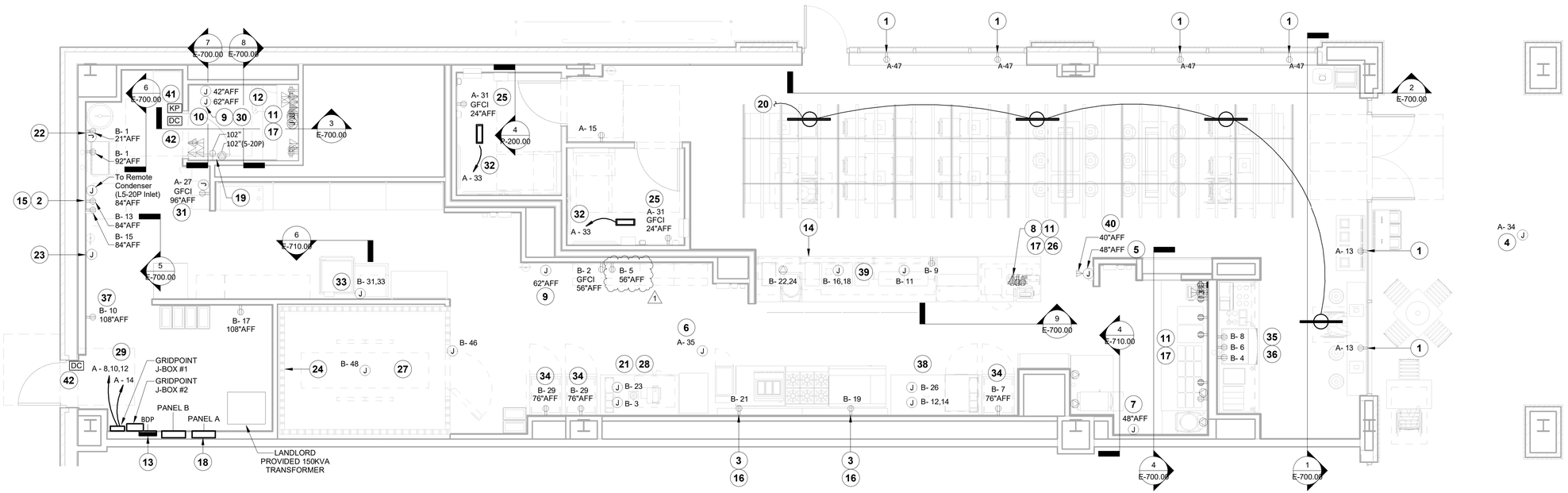
1	SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AS SHOWN ON THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E-700.
2	ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
3	CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTERLOCK TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
4	JUNCTION BOX FOR EXTERIOR SIGN LIGHTING, COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 1/E-101.
5	PROVIDE A SINGLE-GANG VERTICAL JUNCTION BOX FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHAL PRIOR TO ROUGH-IN.
6	HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
7	PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3'-0" OF SLACK AT EACH END.
8	COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
9	PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.
10	PROVIDE (2) EMPTY 2" CONDUIT WITH PULL STRING FROM EXISTING TELEPHONE SERVICE STUB IN TO THE SPACE ABOVE OFFICE CEILING.
11	AFTER THE DML, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE DML, POS, AND OFFICE.
12	PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD EVEN WITH TOP OF PARAPET FOR FUTURE CELL BOOSTER. SECURE CONDUIT TO STRUCTURE TO SUPPORT FUTURE ANTENNA INSTALLATION. PROVIDE 1/4" X 2" X 10" 16-HOLE GROUNDING BUS BAR (BURNDY BBB14210A OR EQUAL) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #2 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING CONDUCTOR.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

13	INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAILS 1 AND 2/E-710.
14	ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
15	ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
16	PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
17	LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP"
18	LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
19	PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND SINGLE NEMA 5-20R RECEPTACLE IN OFFICE AT 102"AFF FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
20	INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.
21	PROVIDE POWER CONNECTIONS TO PREP TABLE PER DETAIL 3/E-710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO (2) J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.
22	PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2 ALARM VENDOR AS SHOWN IN DETAIL 6/E-700.
23	PROVIDE J-BOX AND INSTALL C02 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2 ALARM VENDOR AS SHOWN IN DETAILS 5/E-700 AND 6/E-700.
24	INSTALL WALK-IN COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.
25	PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 4/P-200.
26	PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
27	SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
28	PROVIDE PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.

29	PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 7/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
30	PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 7/E710.
31	INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
32	CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
33	PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE AS SHOWN PER DETAIL 6/E-710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
34	PROVIDE RECEPTACLE FOR 1-DOOR REFRIGERATOR WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
35	PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
36	LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".
37	LABEL RECEPTACLE "UV INSECT TRAP".
38	PROVIDE POWER CONNECTIONS TO PREP TABLE PER DETAIL 3/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.
39	IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
40	PROVIDE HORIZONTAL SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.
41	PROVIDE A RECESSED J-BOX AT 56" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
42	PROVIDE A RECESSED SINGLE-GANG J-BOX ABOVE DOOR AND 3" IN FROM LATCH SIDE OF DOOR FOR THE INSTALLATION OF THE SECURITY SYSTEM DOOR CONTACT WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.



1 POWER PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
	12.11.2024	PERMIT SET
1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L WILSON · 073765 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

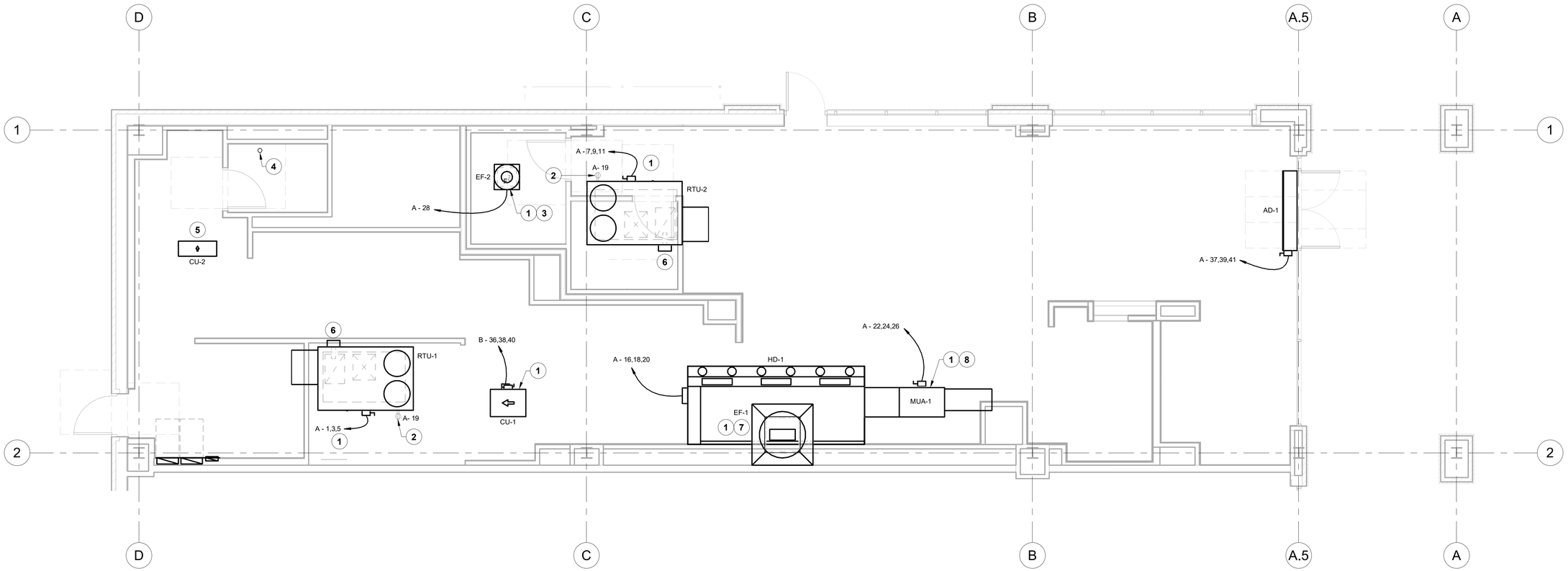
PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
POWER PLAN

SHEET NUMBER:
E-110.00
4 OF 8

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
2	ROOFTOP UNIT SHALL HAVE INTEGRAL UNIT MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
3	PROVIDE POWER TO RESTROOM EXHAUST FAN WITH LOCAL DISCONNECT SWITCH. VERIFY LOCATION IN FIELD. CONNECT EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP) IN THE OFFICE.
4	PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD EVEN WITH TOP OF PARAPET FOR FUTURE CELL BOOSTER. SECURE CONDUIT TO STRUCTURE TO SUPPORT FUTURE ANTENNA INSTALLATION. PROVIDE 1/4" X 2" X 10" 16-HOLE GROUNDING BUSBAR (BURNDY BBB14210A OR EQUAL) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #2 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING CONDUCTOR.
5	PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSER.
6	INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 5/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT THE REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
7	PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.
8	PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4"C AND (4)#12, #12N, #12G IN 1"C FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



1 HVAC POWER PLAN
1/4" = 1'-0"

2024-DB#6/P#1

Consultant:

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REV.	DATE	DESCRIPTION
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1	12.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL:
STATE OF NEW YORK · MICHAEL L. WILSON · 073765 · LICENSED PROFESSIONAL ENGINEER
12/11/2024
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
24023

SHEET TITLE:
HVAC POWER PLAN

SHEET NUMBER:
E-120.00
5 OF 8

Branch Panel: A

Location: KITCHEN 108
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 Series Rated
Mains Type:
Mains Rating: 600 A
MCB Rating: 500 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RTU-1 (HACR) (3#4,#10G,1-1/4"C)	50 A	3	5500 VA	0 VA					3	60 A	TVSS (4#4,#10G,1-1/4"C)	2
3	--	--	--			5500 VA	0 VA			--	--	--	4
5	--	--	--					5500 VA	0 VA	--	--	--	6
7	RTU-2 (HACR) (3#4,#10G,1-1/4"C)	50 A	3	5500 VA	0 VA					3	20 A	Gridpoint 3 Phase Meter (4-#12,#12G,3/4"C)	8
9	--	--	--			5500 VA	0 VA			--	--	--	10
11	--	--	--					5500 VA	0 VA	--	--	--	12
13	Show Window Receptacles Receptaculo	20 A	1	360 VA	180 VA					1	20 A	Gridpoint Transformer	14
15	General Receptacle - Dining	20 A	1			180 VA	1536 VA			3	30 A	EF-1 / HOOD (3#10,#10G,3/4"C) (HACR)	16
17	Panel BDP	20 A	1					1800 VA	1536 VA	--	--	--	18
19	RTU Receptacles Receptaculo	20 A	1	360 VA	1536 VA					--	--	--	20
21	Receptacles - POS General Receptaculo	20 A	1			720 VA	925 VA			3	15 A	MAU-1 (3#12, #12G, 3/4"C) (HACR)	22
23	Security/Audio Sistema de la Seguridad	20 A	1					360 VA	925 VA	--	--	--	24
25	Spare	20 A	1	0 VA	925 VA					--	--	--	26
27	Receptacle Office GFCI Receptaculo	20 A	1			900 VA	334 VA			1	20 A	Restroom Exhaust EF-2 (HACR)	28
29	Receptacle - DML GFCI Receptaculo	20 A	1					720 VA	557 VA	1	20 A	Lighting - Dining Room Illuminacion - Comedor	30
31	Receptacle Restrooms Receptaculo	20 A	1	360 VA	1234 VA					1	20 A	Lighting - Front of Kitchen Illuminacion - Cocina de en frente	32
33	Bathroom Sanitizer Sanitizante de bano	20 A	1			22 VA	1200 VA			1	20 A	Signage - Front Illuminacion para letreros	34
35	Hood Lights and Controls Luces	20 A	1					500 VA	0 VA	1	20 A	Spare	36
37	AD-1 (3#8, #10G, 1"C) (HACR)	45 A	3	3939 VA	0 VA					1	20 A	Spare	38
39	--	--	--			3939 VA	0 VA			1	20 A	Spare	40
41	--	--	--					3939 VA	48 VA	1	20 A	Lighting Control Panel	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Show Window Receptacles Receptaculo	20 A	1					720 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	17957 VA					3	0 A	FEED THRU - PANEL B (4#500KCMIL, #1/0G, 4"C)	50
51	Spare	20 A	1			0 VA	17453 VA			--	--	--	52
53	Spare	20 A	1					0 VA	18397 VA	--	--	--	54
				Total Load:	37851 VA		38209 VA		40502 VA				
				Total Amps:	315 A		319 A		338 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	334 VA	100.00%	334 VA		
Power	69847 VA	100.00%	69847 VA	**Total Conn. Load:**	116562 VA
Non-Continuous	25212 VA	100.00%	25212 VA	**Total Est. Demand:**	111858 VA
Kitchen Equip	12616 VA	65.00%	8200 VA	**Total Conn. Current:**	324 A
E	22 VA	100.00%	22 VA	**Total Est. Demand Current:**	310 A
G	1980 VA	100.00%	1980 VA		

Notes:

Panel Name: BDP
Mounting: Recessed
Enclosure: Type 1

Voltage: 120
Phases: 1
Wires: 2

Mains: Lugs
Amperage: 20

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLES	LOAD
1	POS	15A	1	0.2kVA
2	DML POS	15A	1	0.2kVA
3	DML ORDERING SYSTEM	15A	1	0.5kVA
4	OFFICE - NETWORK GEAR	15A	1	0.2kVA
5	OFFICE - COMPUTER	15A	1	0.4kVA
6	OFFICE - DVR/ISP	15A	1	0.4kVA
			Total Load:	1.1kVA
			Total Amps:	9A

Branch Panel: B

Location: KITCHEN 108
Supply From: A
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 Series Rated
Mains Type:
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Carbonator / CO2 Alarm #6 GFCI Sistema de carbonatacion y alarma de CO2	20 A	1	1308 VA	1356 VA					1	20 A	Food Prep Table Mesa para la preparacion de alimentos	2
3	Food Prep Table (Island) GFCI Mesa para la preparacion de alimentos (isla)	20 A	1			1356 VA	1116 VA			1	20 A	Soda System Dispenser GFCI Dispensador para el sistema de refrescos	4
1 5	Food Prep Table AFVT GFCI	20 A	1					180 VA	1440 VA	1	20 A	Ice Maker - Utensil Counter GFCI Maquina para hacer hielo	6
7	Reach-In Refrigerator GFCI (HACR) Cuarto frigorifico	20 A	1	600 VA	1020 VA					1	20 A	Bubbler GFCI	8
9	Ready to Drink Refrigerator GFCI	20 A	1			1056 VA	180 VA			1	20 A	UV Insect Light Trap GFCI	10
11	Cold Top (Serve Line) #1 GFCI Tabla fria (Linea de servicio)	20 A	1					1440 VA	1040 VA	2	20 A	Carving Station #11 GFCI (2#10,#10G,3/4"C) Estacion para cortar carnes	12
13	Ice Maker Sanitizer GFCI Desinfectante de la maquina para hacer hielo	20 A	1	180 VA	1040 VA					--	--	--	14
15	Ice Maker (BOH) GFCI Maquina para hacer hielo	20 A	1			1920 VA	2080 VA			2	30 A	Hot Food Server (ServeLine) GFCI (2#10,#10 N, #10G,3/4"C) Servidor Caliente del Alimento	16
17	Water Heater Controls GFCI Calentador de agua a gas	20 A	1					600 VA	2080 VA	--	--	--	18
19	Gas Griddle #13 GFCI Plancha de gas	20 A	1	180 VA	0 VA					1	20 A	Spare	20
21	Gas Fryer/Rice Cooker #16 GFCI Freidora de gas / Olla arrocera	20 A	1			180 VA	1352 VA			2	20 A	Tortilla Press (Serve Line) GFCI (2#10,#10G,3/4"C) Calentador de tortillas	22
23	Food Warmer (Rice Table) #26 GFCI Calentador de alimentos (mesa para el arroz)	20 A	1					180 VA	1352 VA	--	--	--	24
25	Tortilla Press (DML) GFCI (2#10,#10G,3/4"C) Calentador de tortillas	20 A	2	1352 VA	312 VA					1	20 A	Refrigerator (Cook Line) #12 GFCI Refrigerador (Linea Para Cocinar)	26
27	--	--	--			1352 VA	2080 VA			2	30 A	Hot Food Server (DML) GFCI (2#10,#10G,3/4"C) Servidor de alimentos calientes	28
29	Upright Refrigerator GFCI (HACR) Refrigerador vertical	20 A	1					1200 VA	2080 VA	--	--	--	30
31	Dish Machine (2#10,#10G,3/4"C) Lavavajillas	30 A	2	2600 VA	1404 VA					1	20 A	Foodwarmer (DML) GFCI Calentador de alimentos (linea de fax)	32
33	--	--	--			2600 VA	1200 VA			1	20 A	Cold Top (DML) #39 GFCI Tabla fria (linea de fax)	34
35	Quesadilla Maker GFCI (2#10,#10G,3/4"C)	30 A	2					2912 VA	781 VA	3	15 A	Walk-in Condensing Unit (CU-1)(3#10,#10G,3/4"C) (HACR)	36
37	--	--	--	2912 VA	781 VA					--	--	--	38
39	Spare	20 A	1			0 VA	781 VA			--	--	--	40
41	Quesadilla Maker GFCI (2#10,#10G,3/4"C)	30 A	2					2912 VA	0 VA	1	20 A	Spare	42
43	--	--	--	2912 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	200 VA			1	20 A	Walk-in Cooler - Door Section	46
47	Spare	20 A	1					0 VA	200 VA	1	20 A	Walk-in Cooler - Evaporator	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
				Total Load:	17957 VA		17453 VA		18397 VA				
				Total Amps:	150 A		145 A		154 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	17647 VA	100.00%	17647 VA		
Non-Continuous	23232 VA	100.00%	23232 VA	**Total Conn. Load:**	53807 VA
Kitchen Equip	10768 VA	65.00%	6999 VA	**Total Est. Demand:**	49345 VA
				Total Conn. Current:	149 A
				Total Est. Demand Current:	137 A

Notes:

2024-DB#6/P#1

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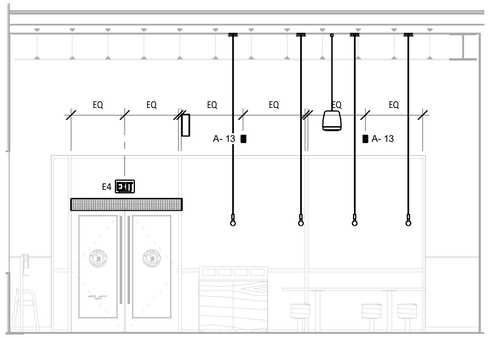
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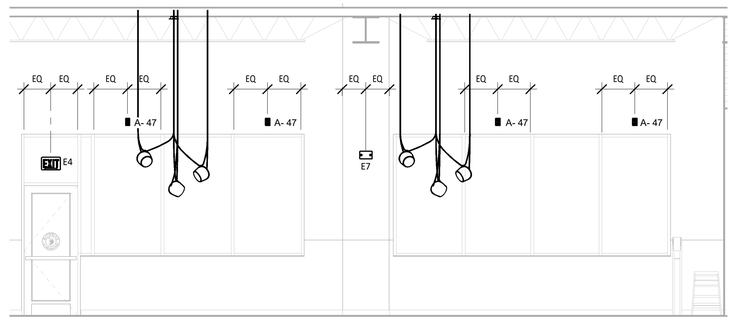
PROJECT NUMBER:
24023

SHEET TITLE:
PANEL SCHEDULES

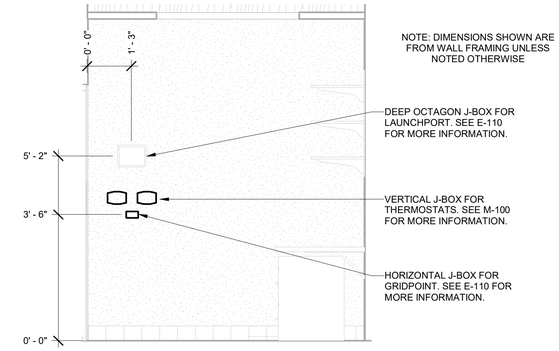
SHEET NUMBER:
E-600.00
6 OF 8



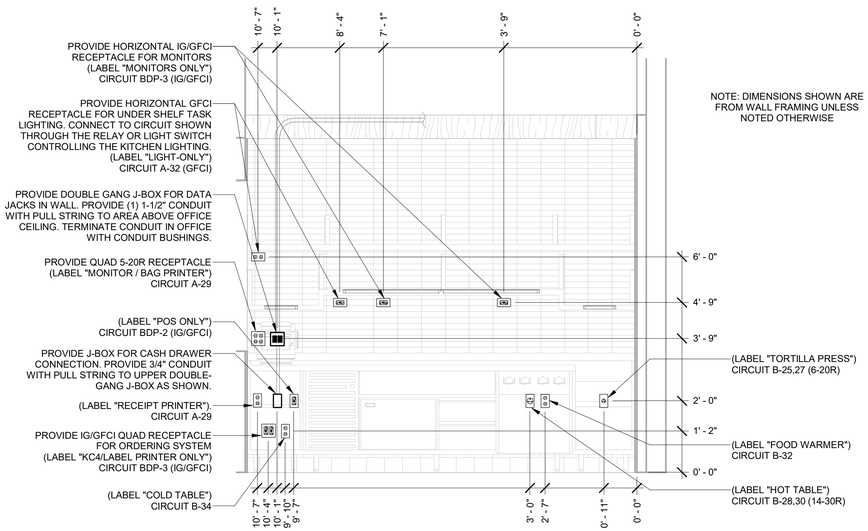
1 DINING ROOM ELECTRICAL ELEVATION
1/4" = 1'-0"



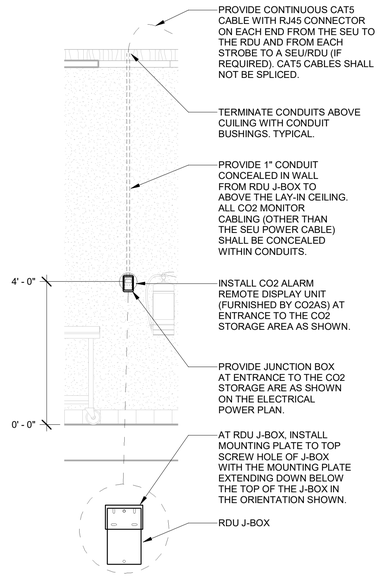
2 DINING ROOM ELECTRICAL ELEVATION 2
1/4" = 1'-0"



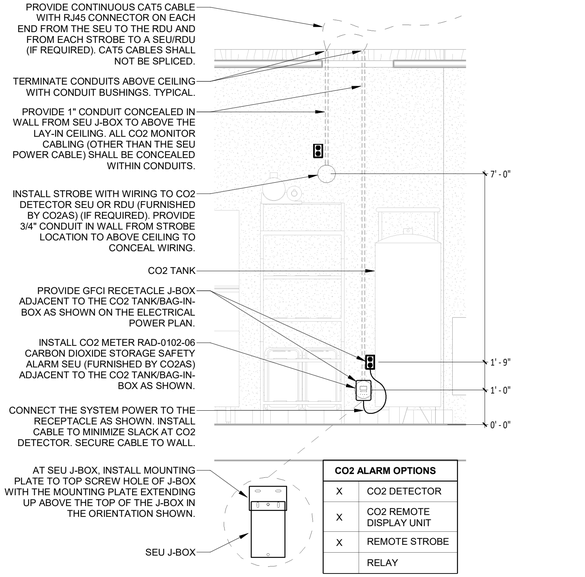
3 LAUNCHPORT ELECTRICAL DETAIL
1/2" = 1'-0"



4 DML ELEVATION
1/2" = 1'-0"

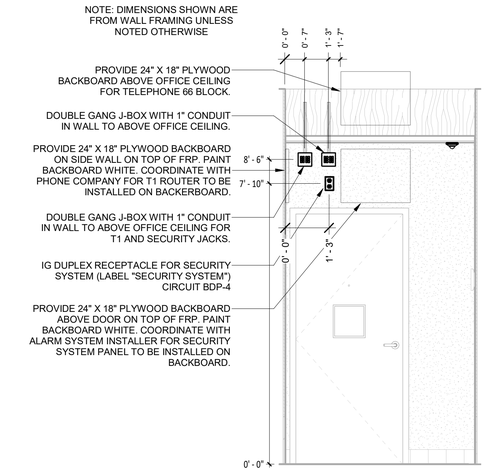


5 CO2 REMOTE DISPLAY DETAIL
1/2" = 1'-0"

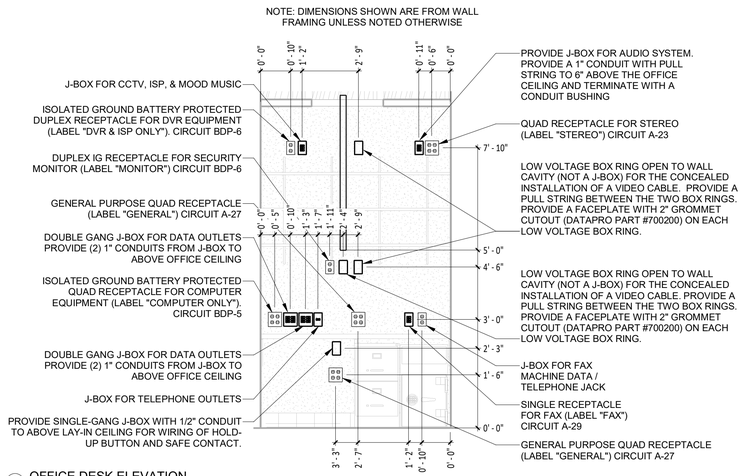


CO2 ALARM OPTIONS	
X	CO2 DETECTOR
X	CO2 REMOTE DISPLAY UNIT
X	REMOTE STROBE
	RELAY

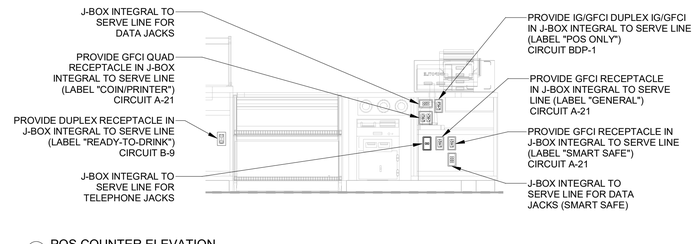
6 CO2 AREA ALARM DETAIL
1/2" = 1'-0"



7 OFFICE DOOR ELEVATION
1/2" = 1'-0"



8 OFFICE DESK ELEVATION
1/2" = 1'-0"



9 POS COUNTER ELEVATION
1/2" = 1'-0"

2024-DB#6/P#1

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1	12.23.2024	CONSTRUCTION SET

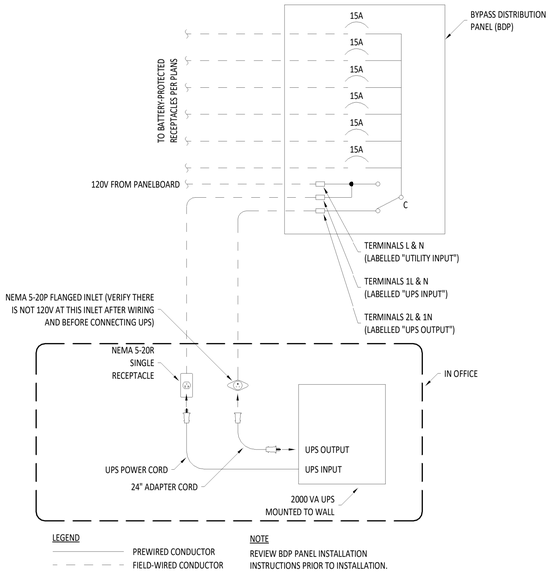
PROFESSIONAL SEAL:
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12/11/2024
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DRAWN BY: PCE
CHECKED BY: AJS

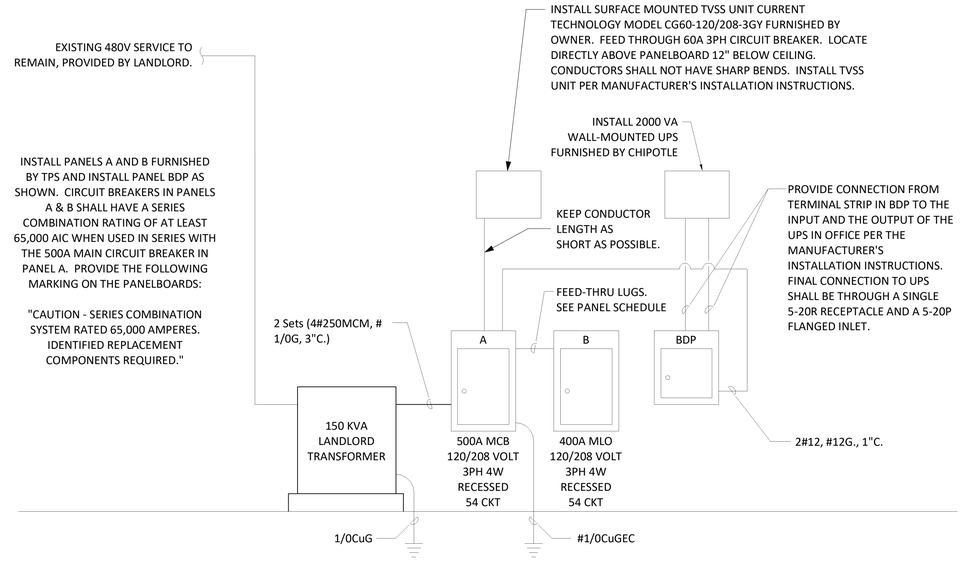
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SHEET TITLE:
ELECTRICAL INTERIOR ELEVATIONS

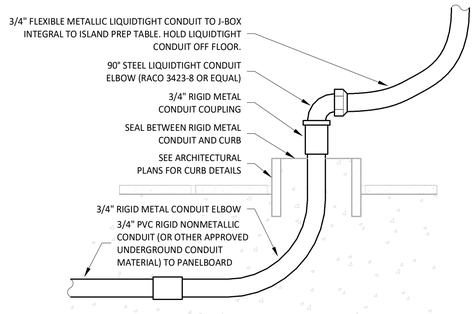
SHEET NUMBER:
E-700.00
7 OF 8



1 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
NOT TO SCALE

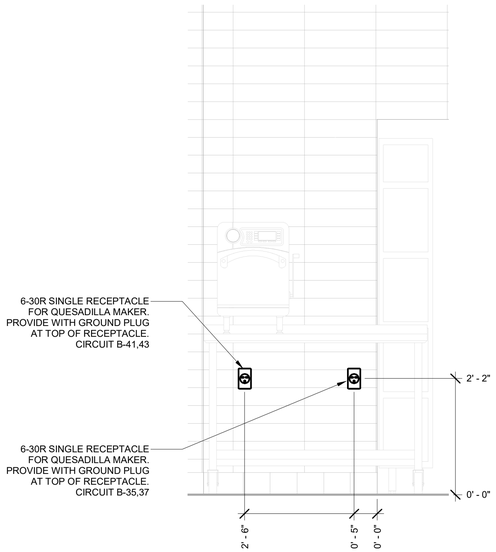


2 MAIN DISTRIBUTION DIAGRAM
NOT TO SCALE

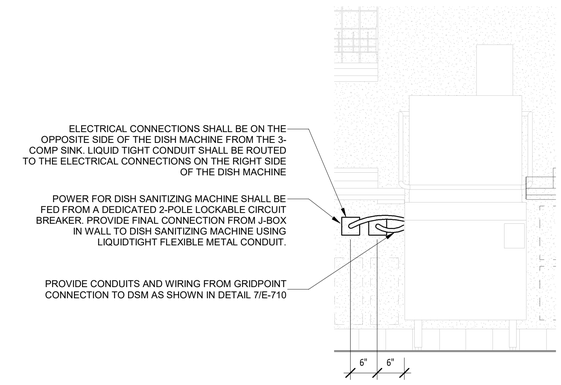


3 PEDESTAL OUTLET DETAIL
NOT TO SCALE

NOTE: DIMENSIONS SHOWN ARE FROM WALL FRAMING UNLESS NOTED OTHERWISE



4 COLD SML ELECTRICAL ELEVATION
3/4" = 1'-0"



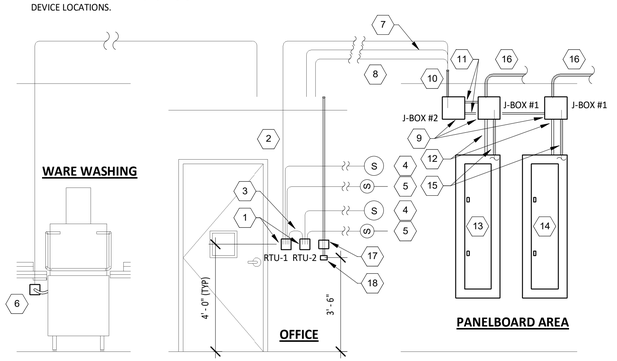
6 DISH SANITIZING MACHINE ELECTRICAL DETAIL
3/4" = 1'-0"

GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

7 ELEC-GRIDPOINT WIRING DIAGRAM
NOT TO SCALE

NOTE:
ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.



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PROJECT NUMBER:
24023

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-710.00
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