REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	CITY OF WESTLAKE PLANNING & ZONING DEPT. 4001 SEMINOLE PRATT WHITNEY WESTLAKE, FL 33470 CONTACT: OSNIEL LEON E: oleon@chenmoore.com T: (561) 437-0837	BUILDING DEPARTMENT:	CITY OF WESTLAKE BUILDING DEPT. 4001 SEMINOLE PRATT WHITNEY WESTLAKE, FL 33470 CONTACT: DURRANI GUY E: dguy@usanova.com T: (561) 530-5880 x201	HEALTH DEPARTMENT:	FLORIDA DBPR HOTEL & RESTAURANT DIV. PLAN REVIEW OFFICE 2601 BLAIR STONE RD TALLAHASSEE, FL 32399 T: 850-487-1395
FIRE DEPARTMENT:	PALM BEACH COUNTY FIRE RESCUE COMMUNITY RISK REDUCTION 405 PKE ROAD WEST PALM BEACH, FL 33411 CONTACT:JEFFREY MILLER E: jsmiller@pbcgov.org T: (561) 753-6014	WATER & SEWER UTILITY:	SEMINOLE IMPROVEMENT DISTRICT 4001 SEMINOLE PRATT WHITNEY ROAD WESTLAKE, FL 33470 E: PublicRecords@inframark.com T: (561) 790-1742		
NATURAL GAS UTILITY:	FLORIDA PUBLIC UTILITIES 450 S. CHARLES RICHARD BEALL BLVD DEBARY, FL 32713 CONTACT: MAURO RUINI E: mruini@chpk.com T: (800) 427-7712	ELECTRICAL UTILITY:	FLORIDA POWER & LIGHT FPL GENERAL MAIL FACILITY MIAMI, FL 33188 T: (561) 742-2000	TELEPHONE UTILITY:	PENDING

PROJECT INFORMATION

LANDLORD:	DKC WESTLAKE LANDINGS, LLC. 431 FAIRWAY DRIVE DEERFIELD BEACH, FL 33441 CONTACT: PATRICK CHRISTIE E: pchristie@konoversouth.com T: (440) 317-0685	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: HEATHER CONLEY E: heather.conley@chipotle.com T: 380-222-7248	ARCHITECT:	STEFANO De LUCA & ASSOC., INC. 4501 PIERCE STREET HOLLYWOOD, FL 33021 CONTACT: ANDREW LINHARES E: andrew.linhares@sdlainc.com T: 954-927-2690 F: 954-367-3494
MECHANICAL ELECTRICAL PLUMBING ENGINEER:	NATIONAL ENGINEERING 4635 TRUEMAN BLVD, SUITE 250 HILLIARD, OH 43026 CONTACT: JOE JONES E: jjones@nationalengineering.com T: 614-328-2024 F: 614-552-5240	STRUCTURAL ENGINEER:	ONM&J 1655 PALM BEACH LAKES BLVD SUITE 204 WEST PALM BEACH, FL 33401 CONTACT: PHIL RIZZO E: prizzo@onmj.net T: 561-835-9994 F: 561-835-8255		

UTILITY COORDINATOR

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

HDGROUP, INC
295 LUNA LANE
ERIE, CO 80516
CONTACT: MELISSA BALCERAK
MBALCERAK@HDGROUPINC.COM
T: (972) 396-8409
F: (214) 291-5597

SIGN VENDOR

ADCON
3725 CANAL DRIVE
FORT COLLINS, CO 80524
CONTACT: KRISTI MARRIOTT
E: kmarriott@adcon-signs.com
T: 970-472-2152

GRAPHIC SYMBOLS

- EXTERIOR ELEVATION MARKER (1 / A101 / 1)
- INTERIOR ELEVATION MARKER (1 / A101 / 1)
- SECTION MARKER (SIM / 1 / A101)
- SECTION / DETAIL (SIM / 1 / A101)
- VIEW LABEL — **View Name** / View Scale (1 / A101)
- 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	TENANT 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: 5377

WESTLAKE FL

4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

SCOPE OF WORK

1

TENANT IMPROVEMENT OF A NEWLY CONSTRUCTED COMMERCIAL BUILDING SHELL (BY OTHERS). THE CHIPOTLE SCOPE INCLUDES THE FOLLOWING WORK:

EXTERIOR: NEW ROOF TOP EQUIPMENT, RELOCATED STOREFRONT DOORS, NEW PICK-UP WINDOW, RELOCATED REAR HOLLOW METAL DOOR, NEW CLEARANCE BAR, PAVEMENT MARKINGS, PARKING STALL STRIPING, NEW PATIO LIGHTING, NEW CONCRETE PATIO, NEW PATIO RAILING AND TOUCH-UP PAINTING. SEE LANDLORD SCOPE BELOW FOR THE PATIO.

INTERIOR: NEW MECHANICAL EQUIPMENT, NEW PLUMBING AND ELECTRICAL SYSTEMS, A NEW CONCRETE FLOOR SLAB, NEW INTERIOR PARTITIONS AND FINISHES, AND NEW FURNITURE AND KITCHEN EQUIPMENT.

LANDLORD WORK: THE LANDLORD HAS PROVIDED UTILITIES STUBBED INTO SPACE, EXTERIOR FINISHES, SITE WORK, ACCESSIBILTY TO THE BUILDING ENTRANCE. THE LANDLORD IS ALSO RESPONSIBLE TO DESIGN AND PERMIT THE NEW PATIO WHICH WILL INCLUDE IRRIGATION, LANDSCAPING, PARKING STALL STRIPING AND NEW CURBS. ALL OF THE LANDLORD WORK IS NOT PART OF THIS PERMIT.

SEE SHEET G002 FOR "LEVEL OF ALTERATION" AND "REHABILITATION CLASSIFICATION".

TERMINOLOGY NOTE

THROUGHOUT THIS SET OF PERMIT DRAWINGS, THE TERM "EXISTING" IS USED TO REFER TO CONSTRUCTION WHICH THE LANDLORD HAS AGREED TO PROVIDE UNDER HIS SITE AND/OR BUILDING SHELL PERMITS. WHILE THESE ITEMS MAY NOT YET BE COMPLETE AT THE TIME THESE PLANS ARE REVIEWED BY THE AUTHORITY HAVING JURISDICTION, THEY ARE REQUIRED TO PROVIDE A COMPLETED BUILDING SHELL IN WHICH CHIPOTLE CAN PERFORM THE TENANT IMPROVEMENT WORK DESCRIBED IN THESE DRAWINGS.

DEFERRED SUBMITTALS

DEFERRED SUBMITTALS WILL BE MADE AFTER THE MASTER PERMIT HAS BEEN ISSUED AND INCLUDE, IF REQUIRED: REFRIGERATION, WALK-IN COOLER, LOW VOLTAGE, HOOD FIRE SUPPRESSION, GAS WORK. G.C. SHALL COORDINATE WITH ALL SUB-CONTRACTORS AND CHIPOTLE VENDORS TO INSURE THE REQUIRED DOCUMENTATION IS SUBMITTED IN TIME TO MEET ALL CONSTRUCTION SCHEDULES. IF RADIO ENHANCEMENT IS REQUIRED, THE WORK WILL BE PERFORMED UNDER A SEPARATE PERMIT.

LANDLORD REQUIRED SUB-CONTRACTOR LIST

NOTE: THE FOLLOWING SUBCONTRACTORS ARE REQUIRED BY THE LANDLORD TO BE USED BY THE TENANT G.C. VERIFY ALL REQUIRED LANDLORD SUB-CONTRACTORS WITH LANDLORD PRIOR TO BIDDING PROJECT.

ROOFING SUBCONTRACTOR	TRANS COASTAL CONSTRUCTION 1425 WILKINS AVE. WEST PALM BEACH, FL 33401 CONTACT: DUANE BURGARD T: (561) 835-9522	FIRE ALARM SUBCONTRACTOR	ADVANCED ALARM SERVICES, INC. 1253 OKEECHOBEE ROAD, SUITE B1 WEST PALM BEACH, FL 33401 CONTACT: MARK SACHAROW T: (561) 833-7099	SPRINKLER SUBCONTRACTOR	HARRIS FIRE PROTECTION, INC. CONTACT: TOM HARRIS T: (561) 284-6749

1

BUILDING CODE & ZONING DATA

SEE SHEET G001

PERMIT INFORMATION

CHIPOTLE'S TENANT IMPROVEMENT PERMIT # PRAD202400792

SHELL/LANDLORD DRAWINGS: PRNR202400053

LANDLORD'S MASTER SITE PLAN AMENDMENT APPROVAL # MPA-2023-04

VICINITY MAP



1 / G000 **VICINITY MAP** N.T.S.

DRAWING INDEX AND REVISIONS

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G002	LIFE SAFETY PLAN															
G003	ACCESSIBILITY REQUIREMENTS															
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G010	ARCHITECTURAL SPECIFICATIONS															
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G013	ARCHITECTURAL SPECIFICATIONS															
G014	ARCHITECTURAL SPECIFICATIONS															
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G017	ARCHITECTURAL SPECIFICATIONS															
G018	ARCHITECTURAL SPECIFICATIONS															
DEMOLITION																
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M700	HVAC DETAILS	•														
PLUMBING																
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P110	PLUMBING PLAN WASTE & VENT	•														
P600	PLUMBING SCHEDULES															
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ELECTRICAL																
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ONLY FIRST SHEET ON PRODUCT APPROVALS DRAWINGS SHOWN IN INDEX

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · REGISTERED ARCHITECT · AR0014815

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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TELEPHONE: (614) 318-2400
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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

1	06.24.24	LL REVIEW REVISIONS
2	09.18.24	PLAN REVIEW REVISION

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents: COVER SHEET

G000

PRODUCT APPROVAL SUMMARY

PRODUCT APPROVAL DOCUMENTATION IS BEING SUPPLIED TO THE A.H.J. WITH THESE PERMIT DRAWINGS. THE G.C. SHALL MAINTAIN A COPY OF THEM ON-SITE DURING CONSTRUCTION AND VERIFY THAT INSTALLATION OF ALL COMPONENTS IS DONE IN COMPLIANCE WITH THEM.

MANUFACTURER / DESCRIPTION	APPROVAL AUTHORITY	APPROVAL #	EXPIRATION	COMMENTS
MIAMI TECH, INC. ALUMINUM ROOF STAND	MIAMI-DADE COUNTY	24-0117.04	4-18-29	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A820-A822
CAPTIVE AIRE SYSTEMS, INC. ALUMINUM ROOFTOP FANS	MIAMI-DADE COUNTY	24-0104.05	3-4-29	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A830-A833
CAPTIVE AIRE SYSTEMS, INC. A SERIES STEEL SUPPLY FAN	MIAMI-DADE COUNTY	24-0104.06	3-4-29	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A840-A842
-	-	-	-	-
YKK AP AMERICA, INC YHS 50 TU ALUMINUM STOREFRONT SYSTEM	STATE OF FLORIDA	FL14218-R14	12-31-26	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A860-A863
YKK AP AMERICA, INC SERIES 35H OUTSWING STOREFRONT DOORS	STATE OF FLORIDA	FL16554-R13	12-31-26	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A870-A875
SCHLAGE LOCK COMPANY H.M. DOOR	MIAMI-DADE COUNTY	22-0427.01	05-05-28	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A880-A884
QUIKSERV CORP. PICK-UP WINDOW	MIAMI-DADE COUNTY	23-0816.26	11-28-28	APPROVED FOR USE IN THE HVHZ - SEE SHEETS A890-A894

CODE COMPLIANCE NOTES

NOTE: THE CURRENTLY ADOPTED EDITIONS OF NFPA DOCUMENTS LISTED BELOW HAVE BEEN TAKEN FROM FFPC **8th EDITION** (NFPA 1) ANNEX F & (NFPA 101) ANNEX D.

A. ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF FFPC **8th EDITION** (FLORIDA EDITION OF NFPA 1 & NFPA 101 **2021**) - EFFECTIVE DATE DECEMBER 31, **2023** AND WITH THE REQUIREMENTS OF FBC **8th EDITION** (2023) - EFFECTIVE DATE DECEMBER 31, **2023**.

B. FIRE EXTINGUISHERS SHALL MEET THE REQUIREMENTS OF FFPC (NFPA 1) AND NFPA 10 (**2018**) AND THE FOLLOWING:

PROVIDE 2 TYPE ABC (CLASSIFICATION 2A-10B:C) AND 1 TYPE K FIRE EXTINGUISHERS MINIMUM.

FIRE EXTINGUISHERS SHALL BE MOUNTED AT A HEIGHT NOT TO EXCEED 5'-0" ABOVE FINISH FLOOR IN LOCATIONS SPECIFIED BY THE FIRE MARSHALL.

FIRE EXTINGUISHERS SHALL BE LOCATED SUCH THAT TRAVEL DISTANCE TO ANY EXTINGUISHER DOES NOT EXCEED 75 FEET.

FINAL QUANTITY, TYPE AND LOCATIONS AS DIRECTED BY THE FIRE MARSHAL.

C. EMERGENCY LIGHTING SHALL COMPLY WITH FFPC AND FBCB 1008.

D. FIRE SPRINKLER SYSTEM, IF INSTALLED, SHALL BE DESIGNED AND INSTALLED ACCORDING TO NFPA 13, **2019**. SUBCONTRACTOR SHALL SUBMIT FULLY ENGINEERED DRAWINGS FOR INSTALLATION, OR FOR MODIFICATION OF ANY EXISTING FIRE SPRINKLER SYSTEM.

E. FIRE ALARM SYSTEM, IF REQUIRED, SHALL COMPLY WITH NFPA 70 (**2020**) & NFPA 72 (**2019**) AND MUST BE UL LISTED.

F. BUILDING ADDRESS SHALL BE POSTED IN CONTRASTING COLOR, MIN. 6" HIGH NUMERALS, VISIBLE FROM THE STREET; OR AS DIRECTED BY THE FIRE MARSHAL AND BUILDING OFFICIAL.

G. ALL DOORS IN A MEANS OF EGRESS SHALL COMPLY WITH FFPC 7.2.1 AND FBCB 1010.

H. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, PROPER NFPA 704 SIGNAGE SHALL BE SUPPLIED AND INSTALLED BY THE G.C. THE G.C. SHALL COORDINATE WITH FIRE INSPECTOR FOR MOUNTING HEIGHTS AND LOCATIONS.

I. ALL INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 450 PER FBCB 720.

J. THE G.C. SHALL PERMANENTLY LABEL THE EXISTING DEMISING PARTITION IN ACCESSIBLE CONCEALED CEILING SPACES WITH LETTERING AT LEAST 3" IN HEIGHT, LOCATED WITHIN 15' OF THE END OF EACH WALL AND SPACED NO MORE THAN 30' ON CENTER WITH THE WORDING, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" (FBCB 703.7).

K. DURING CONSTRUCTION, THE G.C. SHALL BE RESPONSIBLE FOR COMPLYING, AT HIS EXPENSE, WITH ALL APPLICABLE REQUIREMENTS OF FFPC (NFPA 1) CHAPTER 16. THESE INCLUDE, BUT ARE NOT LIMITED TO, PROVIDING AND MAINTAINING FIRE EXTINGUISHERS ON SITE OF THE TYPE, SIZE AND QUANTITY AS DIRECTED BY THE LOCAL FIRE MARSHAL, PROERLY STORING AND HANDLING FLAMMABLE MATERIALS, AND REMOVING DEBRIS, etc.

L. CONTRACTOR SHALL MEET WITH THE FIRE INSPECTOR PRIOR TO COMMENCING WORK TO COORDINATE HIS COMPLIANCE WITH THESE REQUIREMENTS.

M. INTERIOR FINISH RATINGS "NEW ASSEMBLY OCCUPANCY"

INTERIOR WALL & CEILING FINISH MATERIALS: SHALL BE CLASS C OR BETTER IN ASSEMBLY AREAS HAVING OCCUPANT LOADS OF 300 OR FEWER (FFPC 12.3.3.3 AND FBCB TABLE 803.11, FOOTNOTE E)

INTERIOR FLOOR FINISH MATERIALS: SHALL BE CLASS II OR BETTER (FFPC 12.3.3.5 AND FBCB 804.4.2)

AUTOMATIC SPRINKLER SYSTEM (IF PRESENT): UNLESS SPECIFICALLY PROHIBITED ELSEWHERE: WHERE AN APPROVED AUTOMATIC SPRINKLER SYSTEM IS INSTALLED IN ACCORDANCE WITH FFPC SECTION 9.7, CLASS C INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE PERMITTED IN ANY LOCATION WHERE CLASS B IS REQUIRED, AND CLASS B MATERIALS SHALL BE PERMITTED WHERE CLASS A IS REQUIRED (FFPC 10.2.8.1 AND FBCB TABLE 803.11) WHERE AN APPROVED AUTOMATIC SPRINKLER SYSTEM IS INSTALLED IN ACCORDANCE WITH FFPC SECTION 9.7, CLASS II MATERIALS ARE PERMITTED IN AREAS WHERE CLASS I MATERIALS ARE REQUIRED (FFPC 10.2.8.2 AND FBCB 804.4.2).

N. G.C. SHALL PROVIDE MAXIMUM OCCUPANCY SIGN - SEE SHEET A003 FOR "OCCUPANT LOAD ANALYSIS". COORDINATE SIGN REQUIREMENTS AND FINAL LOCATION WITH FIRE MARSHAL PRIOR TO PURCHASE AND INSTALLATION.

O. G.C. SHALL INSPECT EXISTING DEMISING PARTITIONS TO INSURE THAT ALL PERIMETER EDGES AND ANY OPENINGS AND PENETRATIONS ARE PROPERLY SEALED AND FIRE CAULKED TO MAINTAIN THE EXISTING FIRE RATING. PROVIDE NEW FIRE CAULKING AS REQUIRED PER THE FIRE PROTECTION DETAILS.

P. ALL INTERIOR PARTITIONS IN TYPE I AND TYPE II CONSTRUCTION SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED AS REQUIRED BY FBCB SECTIONS 603 AND 718.

PROJECT DATA

BUILDING INFORMATION		
OCCUPANCY	ASSEMBLY (RESTAURANT)	FBCB 302 FFPC CHAPTER 12
GROUP	A-2	FBCB 303.3
HAZARD CLASSIFICATION	ORDINARY	FFPC 12.1.5 & 6.2.2.3
TYPE OF CONSTRUCTION	TYPE II-B SPRINKLERED	FBCB TABLE 504.3, 504.4 & 506.2 AND IN SECTION 602
SEISMIC ZONE	N/A	
FINISH FLOOR ELEVATION	22.30' (N.A.V.D.)	
FLOOD ZONE	ZONE AE	
MAP #	FIRM MAP #12099CO345F	
COUNTY	PALM BEACH	
WIND ZONE	HIGH VELOCITY HURRICANE ZONE	
WIND SPEED	165 MPH	
BUILDING RISK CATEGORY	II	
MEAN ROOF HEIGHT	18'-0" ±	

SURFACE ROUGHNESS/EXPOSURE CATEGORY (FBCB 1609.4)		
WIND DIRECTION	SURFACE ROUGHNESS	EXPOSURE CATEGORY
NORTH	C	C
EAST	C	C
SOUTH	C	C
WEST	C	C

NOTES:

SURFACE ROUGHNESS:
- B: URBAN/SUBURBAN W/ CLOSELY SPACED OBSTRUCTIONS THE SIZE OF SINGLE FAMILY HOMES OR LARGER, OR WOODED AREAS.
- C: OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS
- D: WATER, MUDFLATS AND UNBROKEN ICE

EXPOSURE CATEGORY:
- B: WHERE SURFACE ROUGHNESS B PREVAILS WITHIN 1500 FEET
- C: WHERE B AND D DO NOT APPLY & IN THE HVHZ
- D: WHERE SURFACE ROUGHNESS D PREVAILS WITHIN 5000 FEET, OR SITES WITHIN 600 FEET OF THE SHORELINE

ZONING/PROPERTY INFORMATION	
DESIGNATION	MU - MIXED USE
DEVELOPMENT NAME	SHOPPES OF WESTLAKE LANDINGS
SITE PLAN APPROVAL #	PENDING
PERMITTED USE	YES
PARCEL ID #	77-40-43-01-17-000-0022

CODE SUMMARY

CODE EDITIONS	
BUILDING	FLORIDA BUILDING CODE - BUILDING **8th ED. (2023)**
PLUMBING	FLORIDA BUILDING CODE - PLUMBING **8th ED. (2023)**
MECHANICAL	FLORIDA BUILDING CODE - MECHANICAL **8th ED. (2023)**
ELECTRICAL	NATIONAL ELECTRIC CODE **2020** (NFPA 70)
ENERGY	FBC - ENERGY CONSERVATION **8th ED. (2023)**
FIRE	FLORIDA FIRE PREVENTION CODE **8th ED.** (NFPA 1 & 101, **2021**)
ACCESSIBILITY	FBC - ACCESSIBILITY **8th ED. (2023)**
FUEL GAS	FBC - FUEL GAS **8th ED. (2023)**
EXISTING	FBC - EXISTING **8th ED. (2023)**

INTERIOR FINISH NOTE

THE BUILDING IS EQUIPPED WITH A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM.
ALL WALL AND CEILING FINISHES SHALL BE CLASS C OR BETTER.
THE SPECIFIED FINISHES MEET THIS REQUIREMENT.
ALL FLOOR FINISHES SHALL BE CLASS II OR BETTER.
THE SPECIFIED FINISHES MEET THIS REQUIREMENT.

FLOOR LEVEL NOTE

PER FLORIDA BUILDING CODE - ACCESSIBILITY SECTION 302, ALL FLOOR FINISHES SHALL BE SLIP RESISTANT. VERTICAL CHANGES IN LEVEL UP TO 1/4" SHALL BE PERMITTED, CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED AT 1:2, AND THERE SHALL BE NO CHANGE IN LEVEL GREATER THAN 1/2" VERTICAL. NO FLOOR SLOPES ARE PERMITTED TO EXCEED 2% IN ANY DIRECTION.

BUILDING REQUIREMENTS

TABLE 403.1
MINIMUM NUMBER OF PLUMBING FIXTURES REQUIRED
(FBC - PLUMBING)

OCCUPANT LOAD = 96 PERSONS + 28 OUTDOOR SEATS = 124

ASSEMBLY	FIXTURES					NOTES
	WC	LAV	UR	DF	SERVICE SINK	
REQUIRED	1/75	1/200	-	-	1	1
PROVIDED	2	2	-	-	1	2

NOTES:

1. UNISEX TOILET ROOMS ARE PERMITTED PER FBC-P SECTIONS 403.1.2 & 403.2.
2. DRINKING FOUNTAIN NOT REQUIRED PER FBCP SECTION 410.4.
3. FOR PURPOSES OF MINIMUM PLUMBING FIXTURE COUNT, THE OCCUPANCY CONTENT OF A BUILDING SHALL BE THAT DETERMINED PER THE FBCB TABLE 1004.5. OUTDOOR SEATING AREAS SHALL HAVE THE ACTUAL NUMBER OF SEATS ADDED TO THE OCCUPANT LOAD OF THE SPACE (FBCP 403.1.4)

ALLOWABLE BUILDING HEIGHTS AND BUILDING AREAS — FBC BUILDING TABLE 504.3, 504.4 & 506.2

	CATEGORY	DESIGNATION	ALLOWABLE	ACTUAL	NOTES
GROUP A-2 ASSEMBLY OCCUPANCY	TYPE CONSTRUCTION	II-B, SPRINKLERED	-	-	-
	MAX. HEIGHT IN FEET	-	75'	27'-0" +/-	-
	MAX. NO. OF STORIES	-	3	1	-
	AREA: SINGLE STORY	-	38,000 S.F.	9,450 S.F.	1, 2

NOTES:

1. PER THE BUILDING SHELL DRAWINGS, THE BUILDING IS 9,450 S.F.
   THE CHIPOTLE SPACE (BAY 5) = 2,572 S.F.
   BAY 1 = 2,782 S.F.
   BAY 2 = 1,190 S.F.
   BAY 3 = 1,506 S.F.
   BAY 4 = 1,400 S.F
2. THIS BUILDING CAN BE CONSIDERED SEPARATED OCCUPANCY PER FBCB 508.4.
   THE BUILDING AREA SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATED OCCUPANCY SHALL NOT EXCEED 1.
   A-2 OCCUPANCY = 2,572 ACTUAL, 38,000 ALLOWABLE = 0.07 RATIO
   M OCCUPANCY = 6,878 ACTUAL, 50,000 ALLOWABLE = 0.14 RATIO
   SUM = 0.21 IS LESS THAN 1
   BUILDING COMPLIES WITH ALLOWABLE AREA.

TABLE 601
FIRE RESISTANCE RATINGS — (FBC BUILDING)

EXISTING STRUCTURAL ELEMENT	TYPE II-B		NOTES
	REQUIRED	PROVIDED	
PRIMARY STRUCTURAL FRAME	0	0	-
BEARING WALLS - EXTERIOR	0	2	1
BEARING WALLS - INTERIOR	0	N/A	-
NON-BEARING WALLS/PARTITIONS - EXTERIOR	SEE TABLE 705.5		
NON-BEARING WALLS/PARTITIONS - INTERIOR	0	0	-
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0	N/A	-
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0	0	-

NOTES:

1. EXISTING EXTERIOR MASONRY WALLS = 8" CMU = 4.0" EQUIVALENT THICKNESS = 2 HR RATED PER FBCB TABLE 722.3.2

TABLE 705.5
FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
(FBC BUILDING)

FIRE SEPARATION DISTANCE (FEET)	TYPE OF CONSTRUCTION	GROUP A-2		NOTES
		REQUIRED	ACTUAL	
X < 5	II-B	1	N/A	1
5 ≤ X < 10		1	N/A	1
10 ≤ X < 30		0	N/A	1
X ≥ 30		0	2	2

NOTES:

1. THERE ARE NO OTHER BUILDINGS WITHIN 30 FEET OF THE EXTERIOR WALLS.
2. EXISTING EXTERIOR MASONRY WALLS = 8" CMU = 4.0" EQUIVALENT THICKNESS = 2 HR RATED PER FBCB TABLE 722.3.2

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Contents: CODE COMPLIANCE NOTES

G001

EGRESS DATA

NEW ASSEMBLY OCCUPANCY:
SPRINKLERED

NUMBER OF SEPARATE EXITS (FFPC 7.4.1.1; FBCB 1006.3.2 & 1022.2)
REQUIRED: 2
PROVIDED: 2

EGRESS CAPACITY

A. MINIMUM WIDTH OF MEANS OF EGRESS COMPONENTS (FFPC, SECTION 7.3.4.1 & 12.2.3.8; FBCB 1029.9)
REQUIRED: 36" (UNDER 50 OCCUPANTS) / 44" (50 OR MORE OCCUPANTS)
PROVIDED: 36" MIN. (KITCHEN) / 44" MIN. (DINING EGRESS PATH)

B. MINIMUM CLEAR OPENING AT EGRESS DOOR (FFPC, 7.2.1.2.3.2; FBCB 1010.1.1)
REQUIRED: 32"
PROVIDED: 68" DOOR A, 33" DOOR B, 39" DOOR C

C. MINIMUM EGRESS CAPACITY (FFPC 7.3.3.1; FBCB 1005.3.2)
REQUIRED: 20" (96 PERSONS x 0.2"/PERSON)
PROVIDED: 107" (68" + 39")

EGRESS SUMMARY

EXIT	CLEAR WIDTH	OCCUPANT LOAD FACTOR (INCHES / PERSON)	EGRESS CAPACITY (PERSONS)
A	68"	0.2	340
B	39"	0.2	195

ARRANGEMENT OF EXITS

A. **SEPARATION DISTANCE** (FFPC 7.5.1.3.2; FBCB 1005.5)
AT LEAST TWO EXITS SHALL HAVE A MIN. SEPARATION NOT LESS THAN ONE-HALF THE OVERALL DIAGONAL LENGTH OF THE AREA BEING SERVED (**SPRINKLERED**)
REQUIRED: 25'-10" MIN. (77'-6" OVERALL DIAGONAL LENGTH / 3)
PROVIDED: 71'-6" ACTUAL (SEPARATION FROM EXIT A TO EXIT B)

TRAVEL DISTANCES FOR NEW ASSEMBLY OCCUPANCY: (**SPRINKLERED**)

A. **COMMON PATH** (FFPC 12.2.5.2; FBCB 1029.8)
PERMITTED: 75' MAX. FROM AREAS WITH OCCUPANT LOAD OF 50 OR LESS, AND 20' MAX FROM AREAS WITH OCCUPANT LOAD OVER 50
ACTUAL: SEE LIFE SAFETY PLAN

B. **DEAD END** (FFPC 12.2.5.3; FBCB 1029.9.5)
PERMITTED: 20' MAX.
ACTUAL: SEE LIFE SAFETY PLAN

C. **TRAVEL DISTANCE** TO AT LEAST ONE EXIT (FFPC 12.2.6.2; FBCB 1017.2)
PERMITTED: 250' MAX. (**SPRINKLERED**)
ACTUAL: SEE LIFE SAFETY PLAN

FIRE PROTECTION NOTES

1. THE G.C. SHALL PROVIDE INSTALLATION DRAWINGS TO THE A.H.J. FOR THE HOOD FIRE SUPPRESSION SYSTEM.
2. THE OCCUPANT LOAD IS UNDER 300, SO NO INDEPENDENT FIRE ALARM SYSTEM IS REQUIRED.
3. THE BUILDING IS SPRINKLERED.
4. THE EXHAUST HOOD ANSUL FIRE SUPPRESSION SYSTEM INCLUDES AN AUDIBLE / VISUAL ALARM INDICATOR. COORDINATE LOCATION WITH THE FIRE INSPECTOR.
5. 3 FIRE EXTINGUISHERS ARE REQUIRED, TWO TYPE ABC AND ONE TYPE K. SUGGESTED FIRE EXTINGUISHER LOCATIONS ARE SHOWN ON THIS PLAN, BUT THE FINAL LOCATION OF EACH TYPE SHALL BE AS DIRECTED BY THE FIRE INSPECTOR. SEE SHEET G001 FOR ADDITIONAL INFORMATION.
6. ALL WORK SHALL CONFORM TO THE FLORICA BUILDING CODE 8th ED. (2023), THE FLORIDA FIRE PREVENTION CODE 8th ED. (2023 - WHICH IS COMPOSED OF THE FLORIDA EDITIONS OF NFPA 1 AND NFPA 101 2021), NFPA 13 (2019), AND NFPA 72 (2019).
7. THE WALK IN COOLER IS CONSTRUCTED OF 4" MAX THICK FOAMED PLASTIC WITH A FLAME SPREAD OF 20, IS LESS THAN 400, AND IS CLAD IN 0.032" GALVALUME WITH BASE METAL THICKNESS NOT LESS THAN 0.016" AT ANY POINT; THUS MEETING ALL THE REQUIREMENTS OF FBCB 2603.4.1.3 TO BE INSTALLED IN A NON-SPRINKLERED BUILDING.

REHABILITATION CLASSIFICATION

THIS PERMIT REPRESENTS THE FIRST USE OF A TENANT SPACE IN A BUILDING SHELL CREATED BY THE LANDLORD UNDER HIS SEPARATE BUILDING SHELL CONSTRUCTION PERMIT. THE SPACE WAS PERMITTED AS A-2 OCCUPANCY, SO THIS PERMIT REPRESENTS A MODIFICATION (FFPC 43.2.2.1.3) FOR THE FIRST USE OF THE PREMISES WITHOUT CHANGE IN OCCUPANCY CLASSIFICATION (43.2.2.1.6) , WITHIN THE SAME HAZARD CATEGORY (CATEGORY 3). PER FFPC SECTION 43.5.1 ALL WORK SHALL COMPLY (AT A MINIMUM) WITH SECTIONS 43.4 AND 43.5 AND ALL NEWLY CONSTRUCTED ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 12 FOR NEW ASSEMBLY.

LEVEL OF ALTERATION

WORK UNDER THIS PERMIT REPRESENTS A LEVEL 2 ALTERATION (FBC-EB 603) WITHOUT A CHANGE OF OCCUPANCY. ALL WORK COMPLIES WITH FBC-EB CHAPTERS 7 AND 8 FOR LEVEL 1 AND 2 ALTERATIONS AND CHAPTER 9, AS WELL AS ALL APPLICABLE SECTIONS OF THE FBC AND THE FFPC.

TACTILE EXIT SIGN

1. PER FFPC (NFPA 101) 7.10.1.3., TACTILE SIGNAGE SHALL BE PROVIDED AT EACH DOOR REQUIRING AN EXIT SIGN.
2. TACTILE SIGNAGE SHALL READ, "EXIT".
3. TACTILE SIGNAGE SHALL COMPLY WITH ICC/ANSI A117.1.
4. TACTILE SIGNAGE SHALL MEET ALL REQUIREMENTS OF THE FLORIDA BUILDING CODE - ACCESSIBILITY, SECTION 703.
5. WHERE TACTILE EXIT SIGNS ARE REQUIRED ON STOREFRONT MULLIONS, THEY SHALL BE THE VERTICAL VERSIONS DESIGNED FOR THAT APPLICATION.
6. TACTILE EXIT SIGN SHALL HAVE AN 18" X 18" CLEAR FLOOR SPACE CENTERED ON THE TACTILE CHARACTERS.

OCCUPANT LOAD

FFPC, TABLE 7.3.1.2 & SEC 3.3.22
FBCB, TABLE 1004.5 & SEC 1004.6

NEW ASSEMBLY OCCUPANCY

ROOM	AREA (S.F.)	SQ. FT. / PERSON GROSS OR NET	OCCUPANT LOAD (FIXED SEAT BASED)
DINING	910	FIXED SEATING POSITIONS	54 **
QUEUE/ORDERING	183	7 NET	27
KITCHEN / COOKING	1139	100 GROSS	12
WALK-IN COOLER	117	-	A.U.A.
MEN	70	-	1
WOMEN	65	-	1
PASSAGE	220	-	A.U.A.
OFFICE	51	150 GROSS	1
TOTAL AREA *	2572	TOTAL OCCUPANT LOAD	96

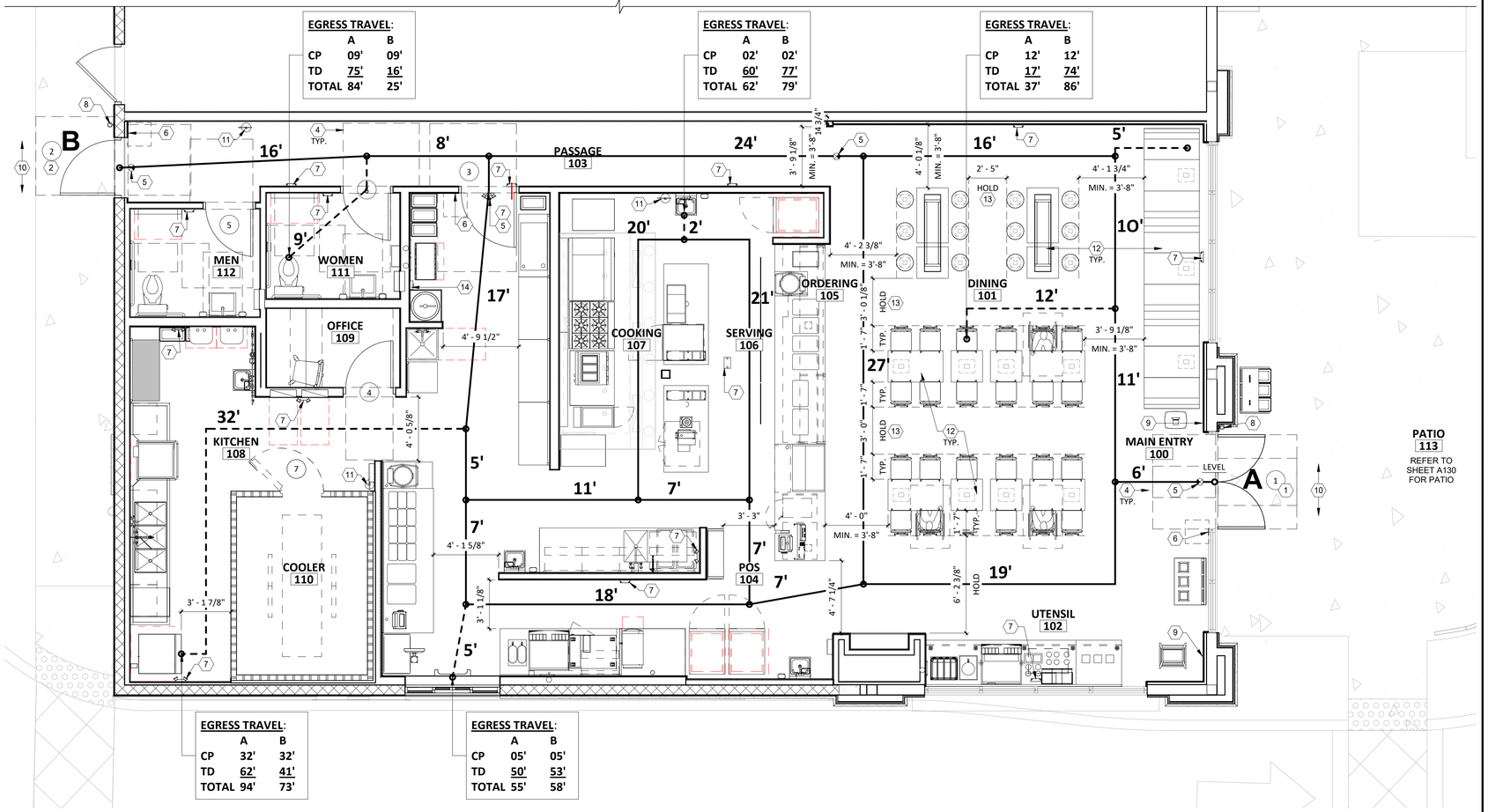
A.U.A. = ACCESSORY USE AREA
* - TOTAL SQUARE FOOTAGE OF DEMISED PREMISES
** - INCLUDES BENCH SEATING AT 18" PER PERSON (FFPC TABLE 7.3.1.2)

LEGEND

X' — THE LINE REPRESENTS THE PATH OF EGRESS TRAVEL. THE CIRCLES REPRESENT THE BEGINNING AND END POINT FOR EACH SEGMENT. THE NUMBER REPRESENTS THE TRAVEL DISTANCE FOR EACH SEGMENT. A DASHED LINE REPRESENTS COMMON PATH OF TRAVEL

EGRESS TRAVEL: THE SCHEDULE PROVIDES A TABULATION OF TOTAL TRAVEL DISTANCE BY ADDING THE COMMON PATH (CP) AND THE TRAVEL DISTANCE (TD). THE EXIT DOOR DESIGNATION REFERS TO THE MEANS OF EGRESS.

	A	B
CP	00'	00'
TD	00'	00'
TOTAL	00'	00'



LIFE SAFETY PLAN

1/4" = 1'-0"

KEYNOTES

1. NEW PAIR OF STOREFRONT ENTRY / EXIT DOORS. DOORS SHALL REMAIN UNLOCKED DURING BUSINESS HOURS. THE DOORS SHALL BE EQUIPPED WITH PANIC DEVICES AND ALWAYS AVAILABLE FOR EGRESS - SEE DOOR SCHEDULE. G.C. SHALL VERIFY THAT THE DOOR THRESHOLD DOES NOT EXCEED 1/2" IN HEIGHT NOR EXCEED A SLOPE OF 1:2 AND SHALL VERIFY THAT THE EXISTING FLOOR SLAB IS FLUSH WITH THE EXISTING SIDEWALK.

2. NEW H.M. EGRESS/SERVICE DOOR. DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS. THE DOOR SHALL BE EQUIPPED WITH AN EXIT DEVICE - SEE DOOR SCHEDULE. G.C. SHALL VERIFY THAT THE DOOR THRESHOLD DOES NOT EXCEED 1/2" IN HEIGHT NOR EXCEED A SLOPE OF 1:2 AND SHALL VERIFY THAT THE EXISTING FLOOR SLAB IS FLUSH WITH THE EXISTING SIDEWALK.

3. NOT USED

4. DASHED RECTANGLES REPRESENT REQUIRED CLEAR FLOOR SPACE PER FBC - ACCESSIBILITY - TYPICAL

5. ILLUMINATED EXIT SIGN WITH BATTERY BACK-UP -- SEE ELECTRICAL DRAWINGS. NOTE: EXIT SIGNS HAVE INTEGRAL BATTERY BACKUP EMERGENCY LIGHT FIXTURES.

6. TACTILE EXIT SIGN - SEE NOTE ON THIS SHEET.

7. EMERGENCY LIGHTING FIXTURE. SEE THE ELECTRICAL LIGHTING PLAN FOR MORE INFORMATION. EMERGENCY LIGHTS MUST PROVIDE A MINIMUM OF 1 F.C. ILLUMINATION ALONG THE EGRESS PATHS PER **FFPC 7.8.1.3.**

8. NEW REMOTE EXTERIOR EMERGENCY LIGHT FIXTURE - G.C. TO V.I.F. - SEE ELECTRICAL DRAWINGS

9. MAXIMUM OCCUPANCY SIGN (SEE SHEET A701). SIGN SHALL STATE, **MAXIMUM OCCUPANCY 96.** MOUNT SIGN @ 5'-0" ABOVE SLAB. VERIFY FINAL SIGN STYLE AND LOCATION WITH FIRE INSPECTOR AND CHIPOTLE CONSTRUCTION MANAGER.

10. EXISTING CONCRETE SIDEWALK - SEE SITE PLAN ON SP100 FOR CONTINUATION

11. FIRE EXTINGUISHERS SHALL BE MOUNTED AT 5' A.F.F. MAX, CONSPICUOUSLY VISIBLE AND READILY ACCESSIBLE. SEE NOTE B UNDER "CODE COMPLIANCE NOTES" ON SHEET G001. EXTINGUISHER NEAREST THE COOKING AREA, OR AS DIRECTED BY THE FIRE MARSHAL, SHALL BE TYPE "K". FINAL LOCATIONS OF **ALL** EXTINGUISHERS SHALL BE AS DIRECTED IN THE FIELD BY THE FIRE INSPECTOR

12. ALL INTERIOR BENCHES, STOOLS AND TABLES ARE PERMANENTLY AFFIXED TO THE FLOOR ESTABLISHING FIXED SEATING POSITIONS AND DEFINED ACCESS AISLES TO THE MEANS OF EGRESS.

13. PER **FFPC 12.2.5.7.5.1** THE MINIMUM AISLE ACCESSWAY WIDTH SERVING SEATING AT TABLES IS 12" FOR THE FIRST 12'-0" OF TRAVEL, INCREASING BY 0.3" FOR EVERY SEAT OVER 14. ALL AISLE ACCESSWAYS COMPLY.

14. THE CO2 BULK TANK COMPLIES WITH THE REQUIREMENTS OF FFPC (NFPA 1) CHAPTER 63.3.1 FOR CARBON DIOXIDE BEVERAGE SYSTEMS: THE EQUIPMENT COMPLIES WITH CHAPTERS 1 THRU 7 & 13 OF NFPA 55; THE TANK IS LOCATED AWAY FROM TRAFFIC PATHS, IS LOCATED ON A RAISED CONCRETE PAD AND SECURED TO THE WALL WITH A CHAIN (63.3.1.9.5); AND HAS AN EMERGENCY ALARM SYSTEM THAT MEETS THE REQUIREMENTS OF 63.3.9.3.4.3.2(B) (SEE SHEETS A130 AND A132 FOR MISC. EQUIPMENT ITEM # 32 AND SEE ALSO DETAILS IN THE ELECTRICAL DRAWINGS.

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Contents:

LIFE SAFETY PLAN

G002

ACCESSIBILITY GUIDELINES - FLORIDA BUILDING CODE 8th EDITION (2023) - ACCESSIBILITY

(BASED ON THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, ADOPTED PURSUANT TO SECTION 553.503, FLORIDA STATUTES AND INCORPORATED INTO THE FLORIDA BUILDING CODE, REFERRED TO HEREIN AS THE "FLORIDA ACCESSIBILITY CODE" OR "FAC") CODE REFERENCES GIVEN BELOW ARE FOR THE FLORIDA ACCESSIBILITY CODE, BUT MATCH THOSE IN THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

EMPLOYEE AREAS

FAC 203.9: SPACES & ELEMENTS WITHIN EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO HAVE COMMON USE CIRCULATION AREAS ON AN ACCESSIBLE ROUTE AND TO BE ON AN ACCESSIBLE MEANS OF EGRESS, DESIGNED TO ALLOW INDIVIDUALS WITH DISABILITIES TO APPROACH, ENTER, AND EXIT THE EMPLOYEE WORK AREA.

WHEREVER POSSIBLE, HOWEVER, ALL EMPLOYEE WORK AREAS ARE BEING MADE FULLY ACCESSIBLE.

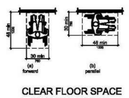
OPERABLE PARTS

FAC 205: OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH FAC 309.

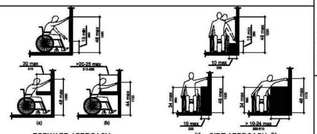
FAC 309.2: CLEAR FLOOR SPACE PER FAC 305 SHALL BE PROVIDED.

FAC 309.3: OPERABLE PARTS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN FAC 308.

FAC 309.4: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.



CLEAR FLOOR SPACE
(FAC 305.3 & 305.5)



FORWARD APPROACH

SIDE APPROACH

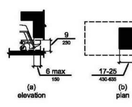
REACH RANGES (FAC 308)

TABLE SEATING

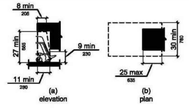
FAC 226: WHERE DINING SURFACES ARE PROVIDED, AT LEAST 5 % OF THE SEATING SPACES AND STANDING SPACES SHALL COMPLY WITH FAC 902.

FAC 902.2: CLEAR FLOOR PER FAC 305 FOR FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE PER FAC 306 SHALL BE PROVIDED.

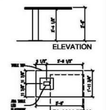
FAC 902.3: THE TOPS OF DINING SURFACES SHALL BE 28" MIN AND 34" MAX A.F.F.



TOE CLEARANCE
(FAC 306.2)



KNEE CLEARANCE
(FAC 306.3)



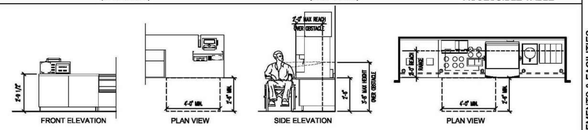
CHIPOTLE
ACCESSIBLE TABLE

SERVICE & TABLEWARE

FAC 227.3: AT LEAST ONE SALES/SERVICE COUNTER SHALL COMPLY WITH FAC 904.4

FAC 904.4: THE ACCESSIBLE PORTION MUST EXTEND THE DEPTH OF THE REST OF THE COUNTER, SHALL BE 36" MIN. LONG AND 36" MAX A.F.F. WHERE THE COUNTER IS LESS THAN 36" LONG, THE ENTIRE COUNTER SURFACE SHALL BE 36" AFF MAX. CLEAR FLOOR SPACE FOR PARALLEL APPROACH SHALL BE PROVIDED PER FAC 305.

FAC 904.5: SELF-SERVICE SHELVES & DISPENSING DEVICES SHALL COMPLY WITH THE REACH RANGES GIVEN IN FAC 308.



CHIPOTLE SALES COUNTER

CHIPOTLE UTENSIL COUNTER

DOORS

FAC 404: ALL DOORS ON AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE. AT LEAST ONE LEAF OF AN ACCESSIBLE DOUBLE DOOR SHALL COMPLY. THE CLEAR WIDTH OF AN ACCESSIBLE DOOR SHALL BE 32" MEASURED FROM THE FACE OF THE DOOR TO THE DOOR STOP WHEN OPEN 90 DEGREES. OPENING SPEED AND OPENING FORCE SHALL MEET THE REQUIREMENTS OF THE FAC (EXCEPT FIRE RATED DOORS SHALL HAVE A MIN. OPENING FORCE ALLOWABLE BY THE FFPC AND EXTERIOR DOORS HAVE A MINIMUM OPENING FORCE OF 8.5 POUNDS PER FLORIDA LAW FS s.553.504(6)).

FAC 404.2.4: MANEUVERING CLEARANCES SHALL BE AS SHOWN AT RIGHT.

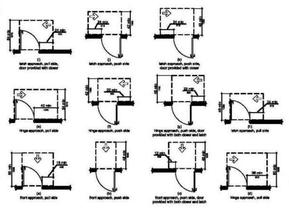
FAC 404.2.5: THRESHOLDS SHALL MEET THE REQUIREMENTS OF FAC 303, NOT TO EXCEED 1/2".

FAC 404.2.6: DOORS IN SERIES SHALL PROVIDE A MINIMUM OF 48" CLEAR AS SHOWN AT RIGHT.

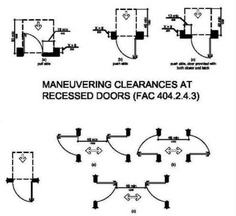
FAC 404.2.7: HARDWARE SHALL MEET THE REQUIREMENTS OF FAC 309 FOR OPERABLE CONTROLS.

FAC 404.2.10: DOOR SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE, EXTENDING THE WIDTH OF THE DOOR. ANY PARTS CREATING A HORIZONTAL OR VERTICAL JOINT SHALL BE WITHIN 1/16 INCH OF THE PLANE OF THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

FAC 404.2.11: AN ACCESSIBLE DOOR WITH A VIEWING PANEL SHALL HAVE THE BOTTOM OF THE PANEL LOCATED 43 INCHES MAX A.F.F.



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS (FAC 404.2.4.1)



MANEUVERING CLEARANCES AT RECESSED DOORS (FAC 404.2.4.3)

DOORS IN SERIES (FAC 404.2.6)

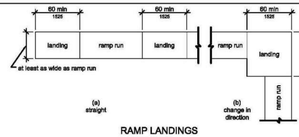
RAMPS

FAC 405: RAMPS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12, AND A CROSS SLOPE NOT STEEPER THAN 1:48. THE SURFACE OF THE RAMP SHALL HAVE NO OTHER CHANGES IN LEVEL.

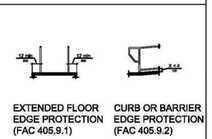
FAC 405.5: THE MINIMUM CLEAR WIDTH OF A RAMP RUN SHALL BE 36" (CLEAR DISTANCE BETWEEN HANDRAILS, IF PROVIDED). THE MAXIMUM RISE FOR ANY RAMP IS 30" MAX. A LANDING SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP LEADING TO IT AND 60" MIN IN LENGTH AS SHOWN AT RIGHT.

FAC 405.8: RAMPS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS ON BOTH SIDES THAT COMPLY WITH FAC 505.

FAC 405.9: EDGE PROTECTION SHALL BE PROVIDED BY 12" MIN. EXTENDED SURFACE, OR A CURB OR BARRIER DESIGNED TO PREVENT THE PASSAGE OF A 4" SPHERE AS SHOWN AT RIGHT.



RAMP LANDINGS
(FAC 405.7)



EXTENDED FLOOR EDGE PROTECTION (FAC 405.9.1)

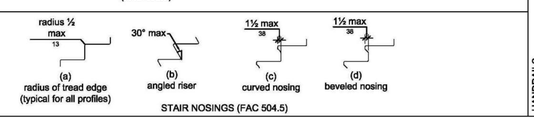
CURB OR BARRIER EDGE PROTECTION (FAC 405.9.2)

STAIRS

FAC 504.2: ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE A UNIFORM RISER HEIGHT AND TREAD DEPTH. RISERS SHALL BE 4" MIN AND 7" MAX HEIGHT. TREADS SHALL BE 11" DEEP MINIMUM. OPEN RISERS ARE NOT PERMITTED.

FAC 504.5: STAIR NOSINGS SHALL BE AS SHOWN AT RIGHT.

FAC 504.6: STAIRS SHALL HAVE HANDRAILS ON BOTH SIDES THAT COMPLY WITH FAC 505.



STAIR NOSINGS (FAC 504.5)

ACCESSIBLE ROUTE

FAC 206: ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH CHAPTER 4 OF THE FAC.

FAC 206.4.1: AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

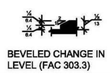
FAC 403.3: THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT BE STEEPER THAN 1:20 AND THE CROSS SLOPE SHALL NOT EXCEED 1:48. IF RUNNING SLOPE EXCEEDS 1:20 THE WALKWAY IS A RAMP AND MUST MEET ALL REQUIREMENTS OF FAC 405.

FAC 403.4: CHANGES IN LEVEL ALONG AN ACCESSIBLE ROUTE SHALL COMPLY WITH FAC 303, AS SHOWN AT RIGHT.

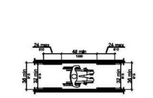
FAC 403.5: CLEAR WIDTHS SHALL BE PROVIDED AS SHOWN AT RIGHT. THE CLEAR WIDTH OF THE WALKING SURFACE ALONG AN ACCESSIBLE ROUTE SHALL BE 36 INCHES MINIMUM, EXCEPT WHERE NOTED.



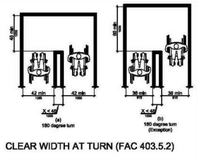
VERTICAL CHANGE IN LEVEL (FAC 303.2)



BEVELED CHANGE IN LEVEL (FAC 303.3)



CLEAR WIDTH OF AN ACCESSIBLE ROUTE (FAC 403.5.1)



CLEAR WIDTH AT TURN (FAC 403.5.2)

PLUMBING ELEMENTS & FACILITIES

FAC CHAPTER 6: PLUMBING ELEMENTS & FACILITIES

FAC 602: DRINKING FOUNTAINS, IF REQUIRED, SHALL PROVIDE CLEAR FLOOR SPACE PER FAC 305, KNEE AND TOE CLEARANCE PER FAC 306. AN ACCESSIBLE D.F. WITH SPOUT AT 36" MAX A.F.F. AND A STANDING D.F. WITH SPOUT AT 38" MIN TO 43" MAX SHALL BOTH BE PROVIDED.

FAC 603: TOILET ROOMS SHALL PROVIDE TURNING SPACE PER FAC 304, EITHER 60" DIAMETER CIRCLE OR T-SPACE AS SHOWN AT RIGHT. THE REQUIRED CLEAR FLOOR SPACE, CLEARANCE AT FIXTURES AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP. THE DOOR SHALL NOT OPEN INTO THE REQUIRED CLEAR FLOOR OF ANY FIXTURE EXCEPT: WHEN THE TOILET ROOM IS FOR INDIVIDUAL USE AND CLEAR FLOOR SPACE PER FAC 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING.

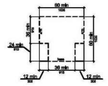
FAC 603.3: MIRRORS LOCATED OVER LAVATORIES OR COUNTER SHALL HAVE THE BOTTOM OF THE REFLECTING SURFACE AT 40" MAX A.F.F. MIRRORS NOT LOCATED OVER LAVS SHALL HAVE THE BOTTOM OF THE REFLECTING SURFACE AT 35" MAX A.F.F.

FAC 604: WATER CLOSETS SHALL BE LOCATED AS SHOWN AT RIGHT, WITH THE CLEARANCES SHOWN. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, GRAB BARS, DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE FOR OTHER FIXTURES AND TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE PERMITTED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. FLUSH CONTROLS MAY BE MANUAL OR AUTOMATIC; IF MANUAL THEY MUST BE ON THE OPEN SIDE OF THE W.C. AND COMPLY WITH THE REACH RANGES SPECIFIED IN FAC 308.

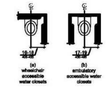
FAC 604.5: GRAB BARS SHALL BE LOCATED AS SHOWN AT RIGHT. GRAB BARS WITH CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MIN AND 2" MAX AND THE MOUNTING HEIGHT SHALL BE 33" MIN AND 36" MAX A.F.F. MEASURED TO THE TOP OF THE GRIPPING SURFACE.

FAC 604.7: TOILET PAPER DISPENSER SHALL BE LOCATED AS SHOWN AT RIGHT.

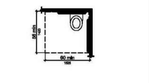
FAC 606: LAVATORIES SHALL BE PROVIDED WITH CLEAR FLOOR SPACE PER FAC 305 FOR FORWARD APPROACH AND MEET THE KNEE AND TOE CLEARANCE REQUIREMENTS OF FAC 306. THE TOP OF THE LAV SHALL BE 34" MAX A.F.F. FAUCETS MAY BE MANUAL OR AUTOMATIC; IF MANUAL THEY MUST COMPLY WITH THE REACH RANGES SPECIFIED IN FAC 308. ALL PIPING UNDER THE LAV SHALL BE INSULATED OR CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS.



T-SHAPED TURNING SPACE (FAC 304.3.2)



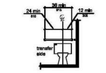
WATER CLOSET LOCATION (FAC 604.2)



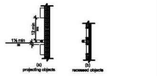
CLEARANCE AT WATER CLOSET (FAC 604.3.1)



SIDE WALL GRAB BAR (FAC 604.5.1)



REAR WALL GRAB BAR (FAC 604.5.2)



SPACING OF GRAB BARS (FAC 609.3)



DISPENSER OUTLET LOCATION (FAC 604.7)

HANDRAILS

FAC 505.2: HANDRAILS, WHEN REQUIRED, SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. HANDRAILS ARE NOT REQUIRED ON WALKING SURFACES WHERE THE RUNNING SLOPE IS NOT STEEPER THAN 1:20, BUT IF THEY ARE PROVIDED THEY MUST MEET ALL THE REQUIREMENTS OF FAC 505.

FAC 505.3: HANDRAILS SHALL BE CONTINUOUS WITH THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON DOGLEG OR SWITCHBACK STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

FAC 505.4: TOP OF GRIPPING SURFACE OF HANDRAILS SHALL BE 34" MIN AND 38" MAX VERTICALLY ABOVE WALKING SURFACE, STAIR NOSING, AND RAMP SURFACE AS SHOWN AT RIGHT. HANDRAILS SHALL BE KEPT AT A CONSISTENT HEIGHT FOR ANY WALK, FLIGHT OF STAIRS, OR RUN OF RAMP.

FAC 505.5: CLEARANCE BETWEEN HANDRAIL AND ADJACENT SURFACE SHALL BE 1 1/2" MIN. AS SHOWN AT RIGHT.

FAC 505.6: HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS AND UNOBSTRUCTED ALONG THE TOP AND SIDES. THE BOTTOMS SHALL NOT BE OBSTRUCTED FOR MORE THAN 20% OF THEIR LENGTH. HORIZONTAL PROJECTS SHALL OCCUR 1 1/2" BELOW THE BOTTOM OF THE HANDRAIL AS SHOWN AT RIGHT.

FAC 505.7: HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MIN TO 2" MAX. NON-CIRCULAR HANDRAILS SHALL COMPLY AS SHOWN AT RIGHT.

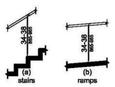
FAC 505.8: HANDRAIL GRIPPING SURFACES AND ALL ADJACENT SURFACES SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

FAC 505.9: HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

FAC 505.10.1: RAMP HANDRAILS SHALL EXTEND HORIZONTALLY FOR 12" MIN BEYOND THE TOP AND BOTTOM OF RAMP RUNS. THEY SHALL RETURN TO A WALL, GUARD, THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RUN.

FAC 505.10.2: AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY FOR 12" MIN BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. THEY SHALL RETURN TO A WALL, GUARD, THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT FLIGHT.

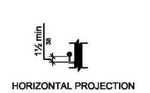
FAC 505.10.3: AT THE BOTTOM OF A FLIGHT OF STAIRS, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THEY SHALL RETURN TO A WALL, GUARD, THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT FLIGHT.



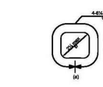
HANDRAIL HEIGHT (FAC 505.4)



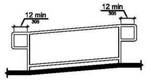
HANDRAIL CLEARANCE (FFPC FIFTH EDITION, SECTION 7.2.2.4.4.5)



HORIZONTAL PROJECTION BELOW (FAC 505.6)



NON-CIRCULAR CROSS SECTION (FAC 505.7.2)



HANDRAIL EXTENSIONS AT RAMPS (FAC 505.10.1)



TOP HANDRAIL EXTENSION AT STAIRS (FAC 505.10.2)



BOTTOM HANDRAIL EXTENSION AT STAIRS (FAC 505.10.3)

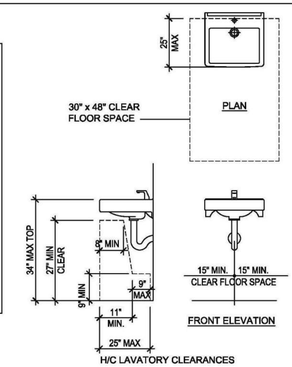
TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS

NOTES:

1. FOR ACCESSORY PRODUCT INFORMATION SEE SHEET A710.

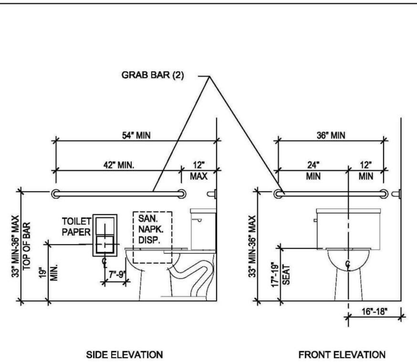
2. ALL ACCESSORIES PURCHASED AND INSTALLED BY G.C. UNLESS OTHERWISE NOTED.

3. ALL WOOD FRAMING, BLOCKING, ETC. SHALL BE FIRE RETARDANT TREATED LUMBER. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE WOOD BLOCKING AS REQUIRED FOR THE INSTALLATION OF ALL MILLWORK, PLUMBING FIXTURES, TOILET ACCESSORIES, ETC.

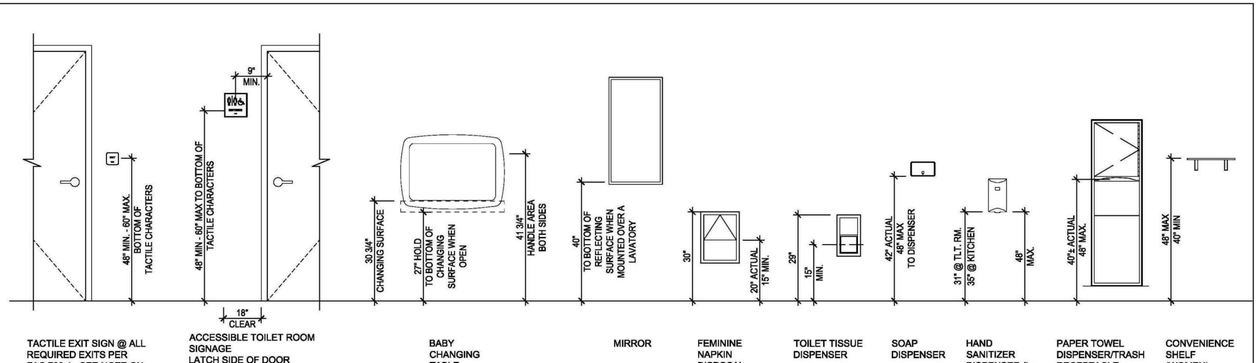


H/C LAVATORY CLEARANCES

NOTE:
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.



H/C WATER CLOSET CLEARANCES



Consultant:

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Stefano De Luca
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STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

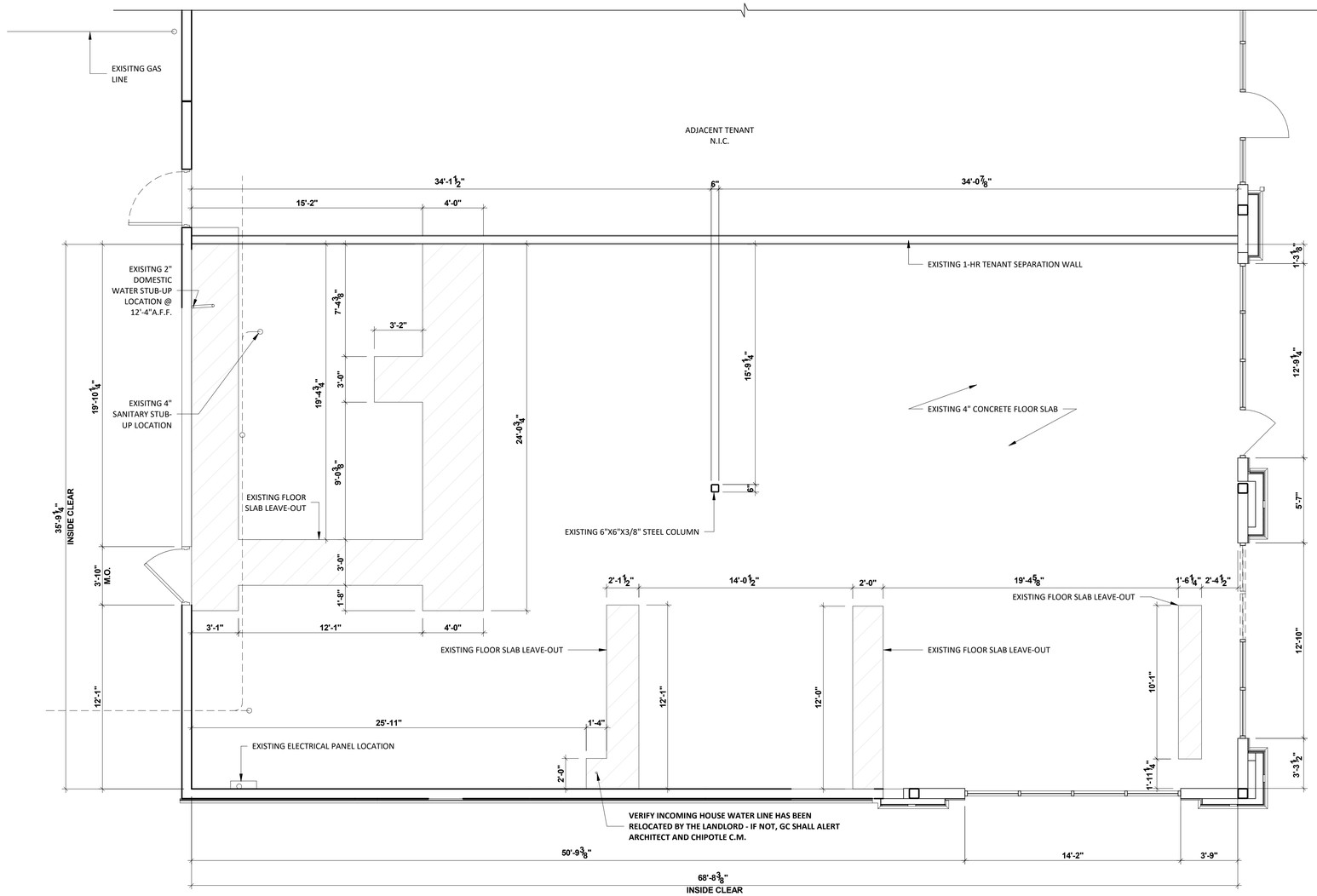
Contents:
ACCESSIBILITY REQUIREMENTS

G003

NOTE:
G.C. SHALL TAKE DIGITAL PHOTOS OF THE INTERIOR PERIMETER OF THE DEMISED SPACE IMMEDIATELY AFTER DEMOLITION, PRIOR TO THE START OF CONSTRUCTION AND SEND TO THE ARCHITECT FOR REVIEW. ANY STRUCTURE, PIPING, CONDUIT ETC. THAT MAY IMPACT CONSTRUCTION OF THE SPACE OR BE UNSIGHTLY IF EXPOSED IS OF PARTICULAR INTEREST.

NOTE:
G.C. SHALL IMMEDIATELY FIELD MEASURE TENANT SPACE @ THE START OF CONSTRUCTION TO CONFIRM OVERALL DIMENSIONS MATCH THIS PLAN - NOTIFY ARCHITECT IMMEDIATELY IF DIFFERENT.

NOTE:
ALL DIMENSIONS TO INTERIOR FACE OF EXISTING WALLS



CONTRACTOR VERIFICATION PLAN

2 / G004

1/4" = 1'-0"

Consultant:

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Checked: SDL

Project No.: CMG2321

Contents:
CONTRACTOR VERIFICATION PLAN

G004

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: AlFlooring TerraQuartz (color: salt & pepper) -or- AlFlooring 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:

STEFANO De LUCA & ASSOCIATES, INC.
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Project No.: CMG2321

Contents:

ARCHITECTURAL SPECIFICATIONS

G010

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 Velour" 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

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ARCHITECTURAL SPECIFICATIONS

G011

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 unsplliced 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 07211 - REFLECTIVE INSULATION

PART 1 GENERAL

1.1 Section includes:
A. Reflective insulation

1.2 Related Requirements:
A. Section 05400 Cold-Formed Metal Framing

1.3 Reference Standards:
A. ASTM C 727 - Standard Practice for Installation and Use of Reflective Insulation in Building Constructions.
B. ASTM C 1224 - Standard Specification for Reflective Insulation for Building Applications
C. ASTM C 1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings
D. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus.
E. ASTM C 1371 - Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers
F. ASTM D 3310 - Standard Test Method for Determining Corrosivity of Adhesive Materials
G. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials
H. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials
I. ASTM STP 1116 - Insulation Materials: Testing and Applications
J. ICC-ES ac 02 - Acceptance Criteria for Reflective Insulation.

1.4 Quality Assurance:
A. Manufacturer's Qualifications: Manufacturer regularly engaged, for a minimum of 10 years, in the manufacturing of reflective insulation of similar type to that specified.

1.5 Delivery, Storage, and Handling:
A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying material name and manufacturer
B. Storage & Handling Requirements:
1. Store and handle materials in accordance with manufacturer's instructions.
2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
3. Store materials in clean, dry area indoors.
4. Protect materials during storage, handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 Manufacturer:
A. Fi-Foil Company, PO Box 800, Auburndale, FL 33823. Toll Free 800-448-3401. Phone 863-965-1846. Fax 863-967-0137.
Web site: www.fifoil.com. E-mail: info@fifoil.com.

2.2 Reflective Insulation:
A. Reflective Insulation: Fi-Foil "VR Plus Shield Hi-Perm" with tape tabs for metal framing.

B. Description
1. Triple-layer reflective insulation.
2. Outer layer: 35 pound white kraft paper coated with polyethylene
3. Middle layer: Minimum 0.00035 inch aluminum foil
4. Inner layer: 30 pound natural kraft paper laminated to minimum 0.00025 inch aluminum foil
5. Upon Installation: Layers open using internal expanders that form internal airspaces ranging between 1/4 inch and 1/2 inch.
6. Thickness of Third Airspace: Dependent upon thickness of framing.

C. Compliance and Approvals:
1. Compliance: ASTM C 1224
2. Evaluated: ICC-ES AC 02.
3. Uniform Evaluation Report: IAPMO ES UER 0291.

D. Recycled Content, by weight:
1. Reflective insulation, 16 inch width:
a. Total: Has more than 35 percent recycle content, with at least 32 percent Post-Consumer Content.

E. Testing Perforated Hi-Perm Reflective Insulation without Vapor Retarder:
1 R-value, Nominal, Heat Flow Horizontal, ASTM C 1363:
a. 7/8 inch Cavity: 5.0
b. 1-1/2 inch to 1-5/8 inch Cavity: 7.0
2. Water Vapor Permeance, ASTM E 96: 0.26 Perms
3. Surface Burning Characteristics, ASTM E 84:
a. Flame Spread Index: 20
b. Smoke Developed Index: 10
c. NFPA Rating: Class A
4. Corrosivity, ASTM D 3310: None
5. Adhesive Performance, ASTM C 1224: Section 9:
a. Bleeding: None
b. Delamination: None
c. Pliability: No signs of cracking.
6. Mold and Mildew Resistance, ASTM C 1338: Pass.
7. Foil Emittance, ASTM C 1371: 0.034.

2.3 Accessories
A. Fi-Foil Aluminum Foil Tape: 2-mil aluminum foil coated with cold weather acrylic adhesive, UL Classified facing, 3 inches width, 3.5 mils total thickness, adhesion is 96 oz/inch of width, elongation is 4.4 percent, tensile strength is 27 lbs/inch of width.
B. Fi-Foil double sided tape: 0.5 mil polyester film coated on both sides with 3-mil acrylic adhesive, 3/4 inch wide, temperature resistance of minus 40 degrees F to 200 degrees F.

PART 3 EXECUTION
3.1 Examination:
A. Examine areas to receive reflective insulation. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions are corrected.

3.2 Installation:
A. Install reflective insulation in accordance with manufacturer's instructions and ASTM C 727 at locations indicated on the drawings.
B. Splice reflective insulation in wall cavitities in accordance with manufacturer's instructions to avoid gaps. Tape seams if gaps appear where splice has been butted.
C. Cut material to fit snugly around electrical wall outlets and other cutouts. Tape edges of material to oulets and cutouts if wall can be seen.
D. Tape tears in material.
E. Replace damaged material as directed by Architect.

3.3 Protection:
A. Protect installed reflective insulation from damage during construction.

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/ft³ 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/yd² fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd² flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd² 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.

Consultant:

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CMG2321

Contents:
ARCHITECTURAL SPECIFICATIONS

G012

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.

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 and recommended by the roofing 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.

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

NOT USED

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

A. Manufacturer: Duro-Last Roofing, Inc, (614) 370-5569, Mike Suman, 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.
3. Alternate roof system requests must be accompanied by the current Miami-Dade County NOA or Florida Product Approval marked up to demonstrate that the installed system and components have been tested to withstand the wind pressures noted in these drawings

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 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 Silprul 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.

Consultant:

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Contents:
ARCHITECTURAL SPECIFICATIONS

G013

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).

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

MATCH EXISTING - REFER TO NOA SHEETS

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

A. 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. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM. Requests for alternate systems must be accompanied by a Miami-Dade County N.O.A or State of Florida Product Approval which shall be marked up to demonstrate that the system, when installed, is able to meet or exceed the wind pressures noted in the drawings. See section 2.1 for acceptable manufacturers.

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 G001
   b. Importance Factor: (1.00)
   c. Exposure Category (A, B, C, D): Determine to meet local codes listed on G001

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 G001.
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, and shall be accompanied by Product Approval documentation.

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 elastomertic extrusions or a thermoplastic elastomer.
   d. Provide adjustable glass jacks to help center the glass in the door opening.

B. Alternate Storefront Manufacturers only when approved by Arch PM and Chipotle DM.
1. YKK
2. Oldcastle
3. US Aluminum
4. EFCO
5. Wausau

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, and as specified in the Product Approval.

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 and as specifiec in the Product Approval.

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.
8. As specified in the Product Approval documentation.

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 and as specified in the Product Approval documentation.

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.

Consultant:

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Contents:
ARCHITECTURAL SPECIFICATIONS

G014

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/

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.

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. 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 #23-0816.26

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. Ambient Air Curtain for 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.

3.1 Installation

A. Install in accordance with manufacturer's instructions and per the N.O.A.
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

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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: 1/3 running bond.
   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.

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).

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" QT03
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.

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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:

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Project No.
CMG2321

Contents:
ARCHITECTURAL SPECIFICATIONS

G017

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 V52-90 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 6-4110XI 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 - EXTERIOR SUN CONTROL DEVICES

NOT USED

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:

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Stefano De Luca
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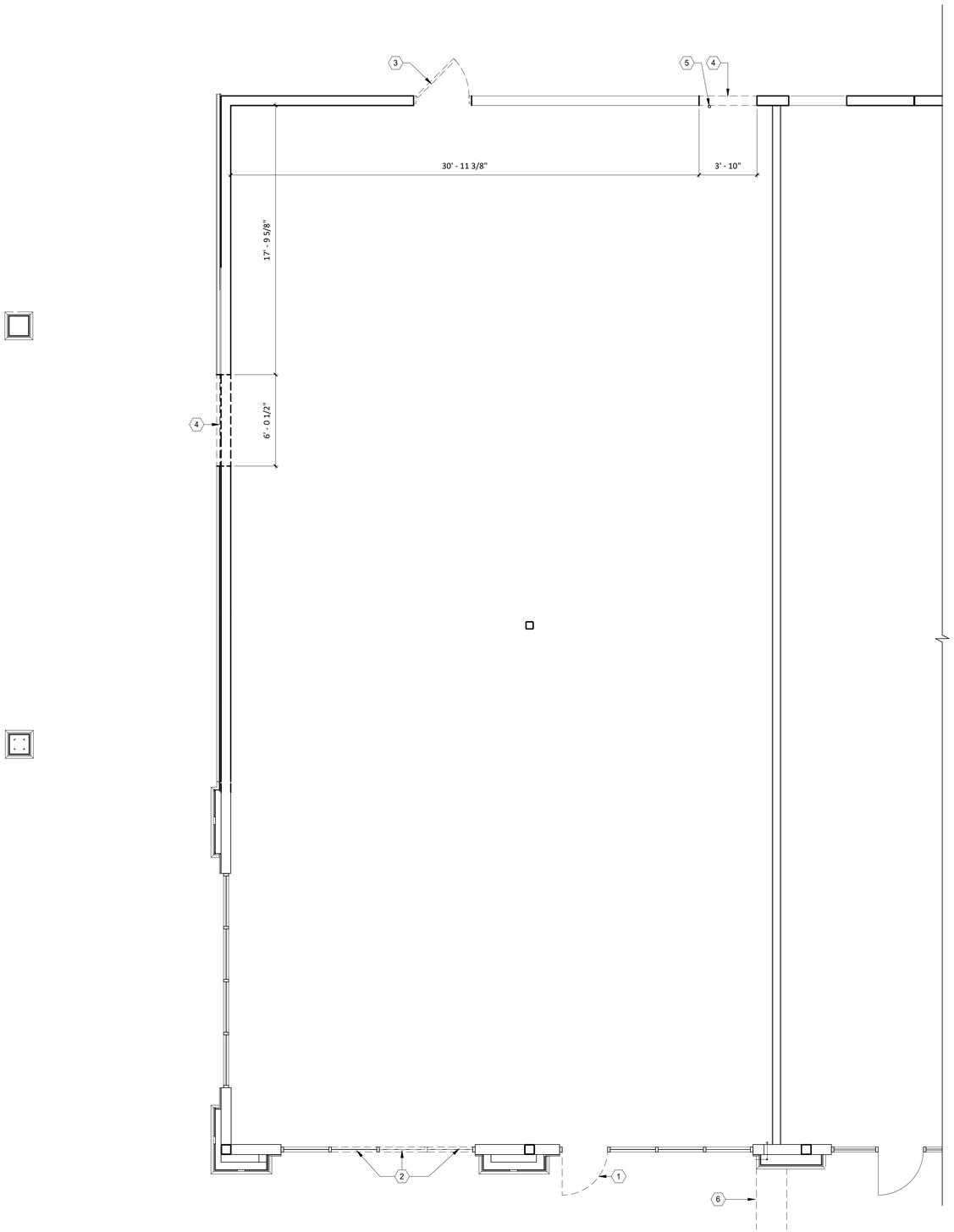
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Checked: SDL

Project No.: CMG2321

Contents:

ARCHITECTURAL SPECIFICATIONS

G018



DEMO FLOOR
2 D101
1/4" = 1'-0"

GENERAL PLAN NOTES

1.	UPON REMOVAL OF ALL EXISITNG FLOOR FINISHES SURVEY EXISTING SLAB AND PROVIDE PATCHING AND/OR FIRESTROPPING AS REQUIRED FOR PROPER SEAL AND AS REQUIRED BY CODE.
2.	UPON REMOVAL OF ALL EXISTING CEILING FINISHES, SOFFITS, ETC. SURVEY EXISING DECK FOR PENETRATIONS AND PATCH AND/OR FIRESTOP FOR PROPER SEAL AND AS REQUIRED BY CODE.
3.	GENERAL CONTRACTOR TO SCOPE EXISTING SANITARY LINES PRIOR TO PREPARING FOR NEW CONNECTIONS.

DEMOLITION LEGEND

EXISTING CONSTRUCTION TO REMAIN	———————
EXISTING CONSTRUCTION TO BE DEMOLISHED	— — — — — — — — — — — — — — — —

GENERAL DEMOLITION NOTES

1.	DEMOLISHED MATERIALS SHALL BECOME THE GENERAL CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AND RECYCLED BY THE GENERAL CONTRACTOR'S OPTION, UNLESS NOTED OTHERWISE.
2.	SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE DEMOLITION.
3.	PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM SELECTIVE DEMOLITION ACTIVITIES.
4.	MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
5.	CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. REMOVE & TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. PROMPTLY DISPOSE OF DEMOLISHED AMTERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE.
6.	PROVIDE TEMPORARY WEATHER PROTECTION, DURING INTERVAL BETWEEN DEMOLITION, REMOVAL OF EXISTING EXTERIOR CONSTRUCTION AND NEW CONSTRUCTION TO ENSURE THAT NO WATER DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS.
7.	TOTAL SCOPE OF DEMOLITION MAY NOT BE COVERED ON THIS SHEET. REVIEW ALL SHEETS IN THIS DRAWING SET TO DETERMINE TOTAL SCOPE OF DEMOLITION.
8.	REMOVE & TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
9.	TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
10.	CLEAN ALL HORIZONTAL SURFACES OF ACCUMULATED DUST AND DEBRIS.
11.	ALL DEMOLITION ITEMS ON THIS SHEET TO BE PERFORMED BY CHIPOTLE'S GENERAL CONTRACTOR, UNLESS NOTED OTHERWISE.
12.	COORDINATE ALL DEMOLITION ACTIIVTY WITH BUILDING OWNER'S REPRESETATIVE. SOME DEMOLITION ACTIVIITES MAY BE REQUIRED TO BE PERFORMED ON PREMIUM TIME.
13.	CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL ADJACENT AND REMAINING BUIDLING COMPONENTS.
14.	EXISTING FOUNDATIONS TO BE PROTECTED AND UNDISTURBED. UNLESS OTHERWISE NOTED.
15.	ALL SALVAGED ITEMS, INCLUDING BUT NOT LIMITED TO LINES, ELECTRICAL PANELS, MAIN COPPER CONDUIT, ETC. SHALL BE CAREFULLY DISASSEMBLED/DISCONNECTED AND STORED IN A SECURE LOCATION FOR POSSIBLE REUSE.
16.	IDENTIFIED SELECTIVE DEMOLITION IS FOR REFERENCE ONLY. ADDITIONAL DEMOLITION MAY BE REQUIRED TO ACCOMMODATE NEW LAYOUT; REFER TO NEW WORK PLANS AND ELEVATIONS. ALL DIMENSIONS SHOWN SHOULD BE VERIFIED IN THE FIELD.
17.	MAINTAIN EXISTING SPRAY-ON FIREPROOFING OF EXISTING STRUCTURE AND FIRE RATED ASSEMBLIES. ANY COMPROMISE OF EXISTING FIRE RATING SHALL BE PATCHED AND REPAIRED TO ORIGINAL CONDITION.
18.	ANY EXISTING FINISHED SURFACES TO REMAIN THAT ARE AFFECTED BY SELECTIVE DEMOLITION SHALL BE PATCHED TO MATCH EXISITNG ADJACENT SURFACES UNLESS CONCEALED BY NEW CONSTRUCTION.
19.	UTILITIES ABANDONED SHALL BE REMOVED AND CAPPED BEHIND FINISHED SURFACES.
20.	IN SHARED SPACES WITH OTHER TENANTS, SEAL ALL INTAKE AND EXHAUST AIR PRIOR TO DEMOLITION.
21.	ALL EXISTING EXTERIOR DOORS, FRAMES AND STOREFRONT TO REMAIN, UNLESS OTHERWISE NOTED.

(#) KEYNOTES

1 REMOVE EXISTING STOREFRONT DOOR - REMOVE ALL ANCHORS AND THRESHOLDS - PREPARE EXISTING STOREFRONT FRAMING TO RECEIVE NEW GLAZING PER SHEET A602

2. REMOVE EXISTING GLAZING AND FRAMING AS NEEDED TO RECEIVE NEW STOREFRONT DOORS - SEE SHEETS A601 & A602

3. REMOVE EXISTING H.M. DOOR AND FRAME - PREPARE EXISTING MASONRY OPENING AS REQUIRED TO RECEIVE NEW INFILL WORK - COORDINATE WITH STRUCTURAL DRAWINGS

4. REMOVE EXISTING CMU WALL PORTION AS NOTED AND AS REQUIRED FOR NEW WORK - SEE ALSO SHEETS D104, A110, A602 AND COORDINATE WITH THE STRUCTURAL DRAWINGS

5. G.C. SHALL RELOCATE INCOMING DOMESTIC WATER SERVICE PER THE PLUMBING DRAWINGS FOR NEW SERVICE DOOR LOCATION

6. G.C. SHALL USE CARE NOT TO DISTURB THE MINIMAL AMOUNT OF SOIL AS POSSIBLE. G.C. SHALL FILL IN TRENCH & COMPACT PER THE LANDLORD'S GEOTECH REPORT REFER TO 1/SP101

Consultant:

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Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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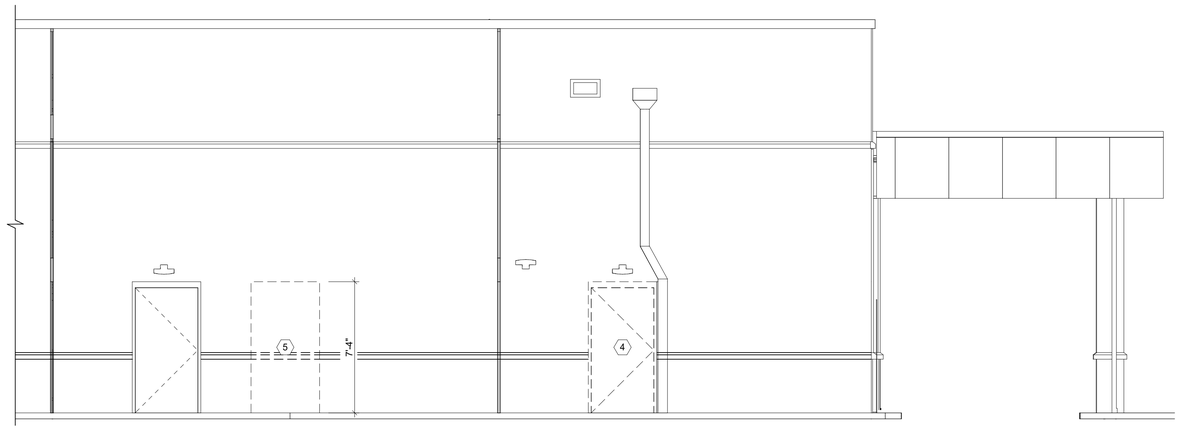
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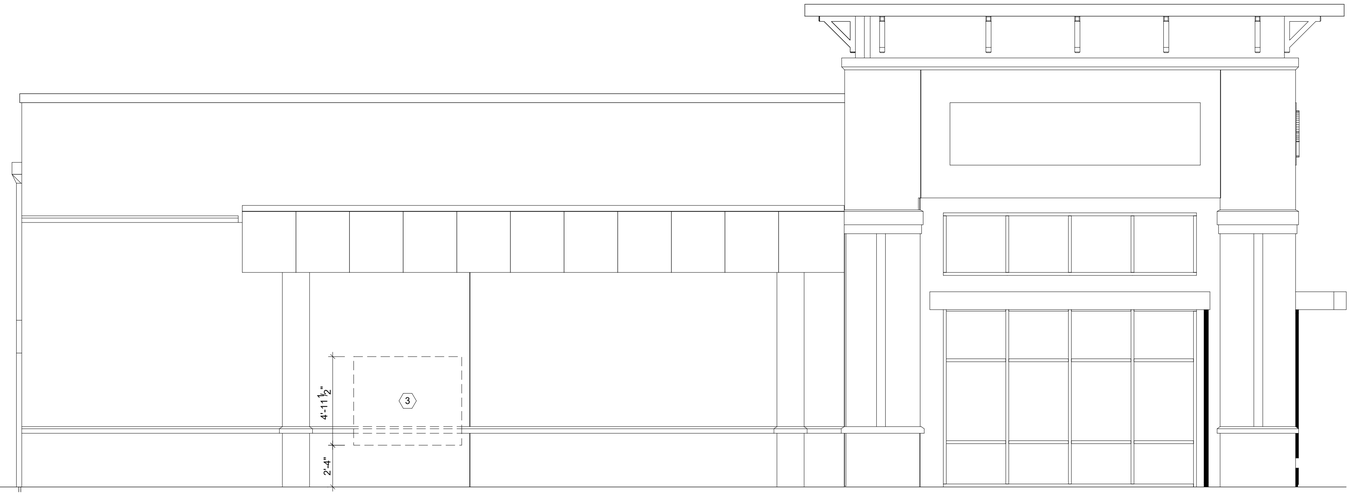
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CMG2321

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DEMOLITION FLOOR PLAN

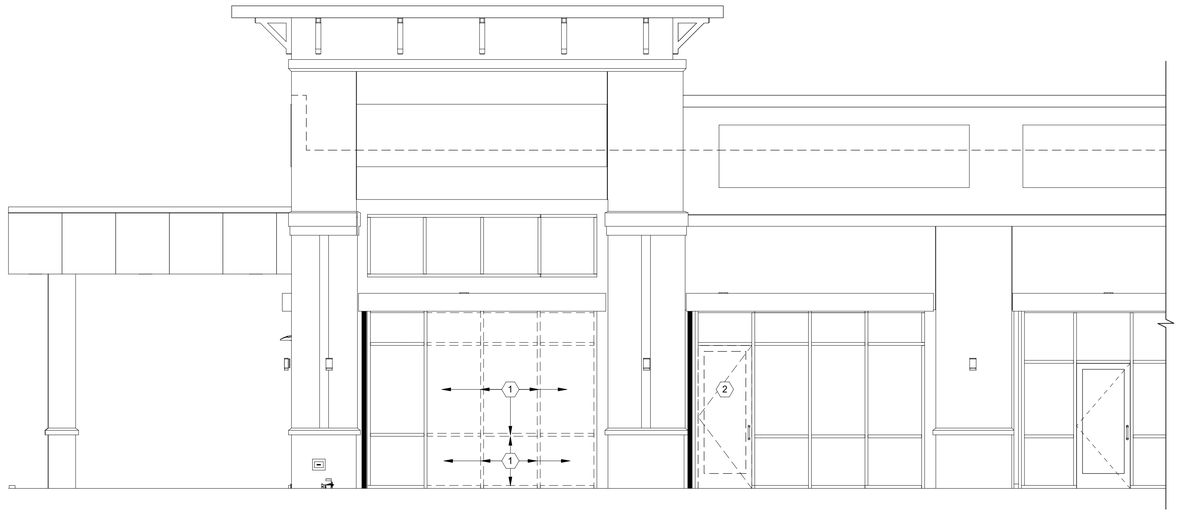
D101



3 D102 **WEST ELEVATION - DEMOLITION**
1/4" = 1'-0"



2 D102 **SOUTH ELEVATION - DEMOLITION**
1/4" = 1'-0"



1 D102 **EAST ELEVATION - DEMOLITION**
1/4" = 1'-0"

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(#) KEYNOTES

NOTE: WHERE NOT AFFECTED BY DEMOLITION WORK INDICATED ON THIS SHEET, OR BY NEW WORK NOTED ELSEWHERE IN THESE DRAWINGS, THE EXISTING FINISHES ARE TO REMAIN. CARE IS TO BE TAKEN NOT TO DAMAGE THE EXISTING FINISH MATERIALS.

1. REMOVE EXISTING STOREFRONT GLAZING, FRAMING AND ALL ASSOCIATED ANCHORS AND FASTENERS AS NEEDED - PREPARE OPENING AS REQUIRED FOR NEW STOREFRONT DOORS, GLAZING, AND FRAMING WORK

2. REMOVE EXISTING STOREFRONT DOOR - PREPARE OPENING AS REQUIRED FOR NEW GLAZING/FRAMING WORK

3. REMOVE EXISTING MASONRY WALL AS REQUIRED FOR NEW PICK-UP WINDOW (SEE SHEETS D101, A110, A601, A602 AND THE STRUCTURAL DRAWINGS) - PREPARE ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW WORK

4. REMOVE EXISTING HOLLOW METAL DOOR, FRAME & THRESHOLD AND ALL ANCHORS AND FASTENERS AND ASSOCIATED HARDWARE - PREPARE ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW INFILL WORK

5. REMOVE EXISTING MASONRY WALL AS REQUIRED FOR NEW H.M. DOOR (SEE SHEETS D101, A110, A601, A602 AND THE STRUCTURAL DRAWINGS) - PREPARE ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW WORK

Consultant:

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ARCHITECTURE & DESIGN

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Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
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Revisions:

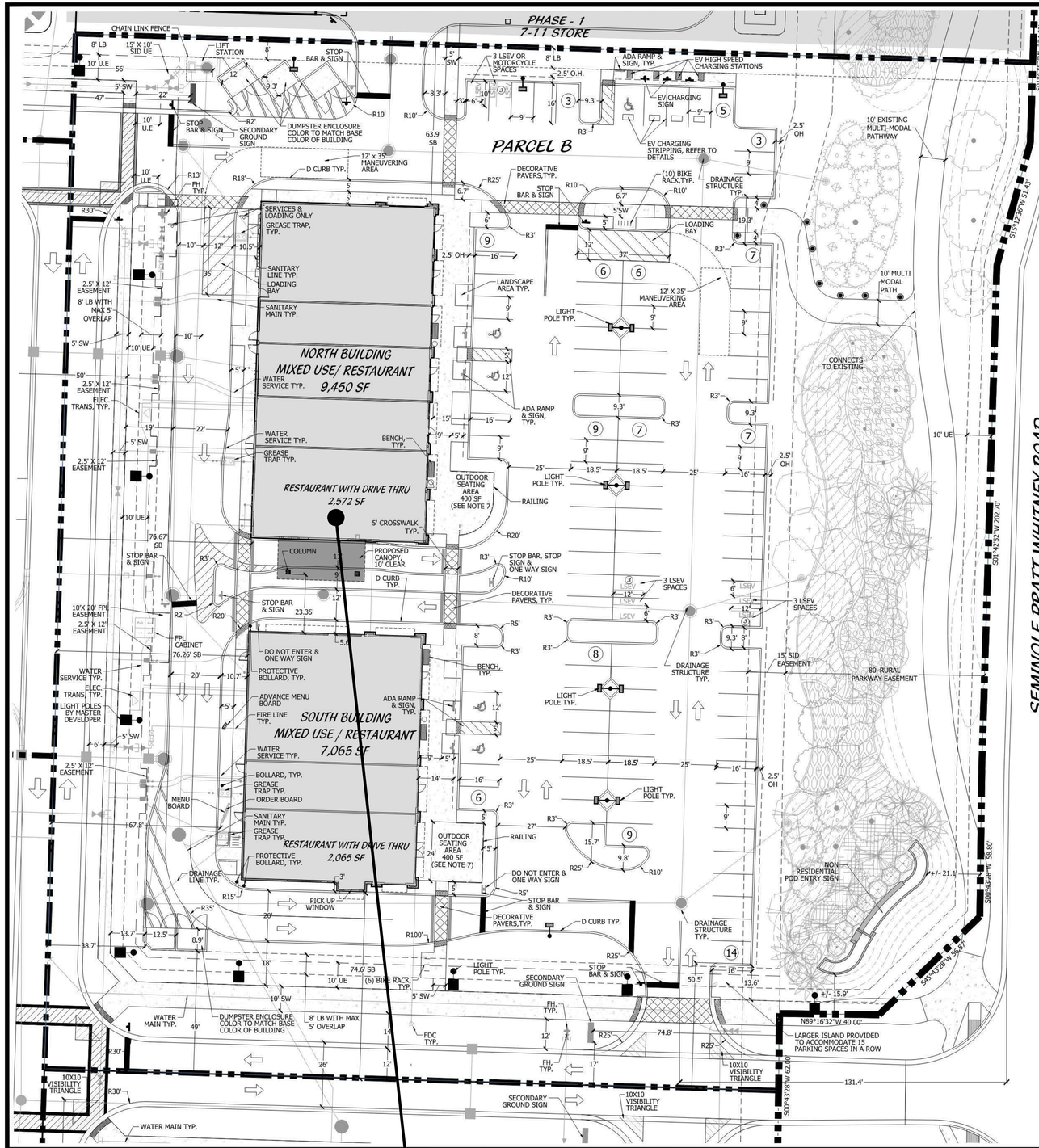
Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:

DEMOLITION ELEVATIONS

D102



SITE DATA

NAME OF APPLICATION	WESTLAKE POD H PARCEL B - SHOPPES OF WESTLAKE LANDINGS
APPLICATION NUMBER	SPM-2023-14
PROJECT NUMBER	CH 13-0518.60.08
LAST BCC APPROVAL DATE	10/29/2014
LAST CITY OF WL "MASTER PLAN" APPROVAL DATE	12.15.2020
CITY OF WL "ISITE PLAN" APPROVAL DATE	06.06.2023
RESOLUTION NUMBERS	TTDR-2014-1646, R-2014-1647, R-2014-1648, ORDINANCE 2014-030, MPA-2016-01, MPA-2017-01,MPA-2018-01, MPA-2018-02, MPA 2020-01 MPA 2020-04, MPA 2020-05 R-2021-08, MPA 2021-01, MPA 2021-03
FUTURE LAND USE DESIGNATION	DOWNTOWN MIXED USE
EXISTING ZONING DISTRICT	MIXED USE
SECTION/ TOWNSHIP/ RANGE	51 52 40
PROPERTY CONTROL NUMBER(S)	77-40-43-01-17-000-3022
EXISTING USE	COMMERCIAL, USE
APPROVED USE	COMMERCIAL, (MIXED USE **Note: 2**)
PROPOSED USE	COMMERCIAL (MIXED USE **Note: 3**)

BUILDING HEIGHT	
NORTH BUILDING	1 STORY 27'
SOUTH BUILDING	1 STORY 27'

SITE DATA	**SF**	**AC.**	**%**
TOTAL SITE AREA	152,569	3.50	100
TOTAL BUILDING LOT COVERAGE	17,466	0.40	11% ***Note 4**

BUILDING DATA	**SF**
NORTH BUILDING	
BAY 1 - SHOPPING CENTER MIXED USE	2,762
BAY 2 - SHOPPING CENTER MIXED USE	1,190
BAY 3 - SHOPPING CENTER MIXED USE	1,506
BAY 4 - SHOPPING CENTER MIXED USE	1,400
BAY 5 - RESTAURANT W DRIVE THRU (FAST FOOD)	2,572
TOTAL	**9,450**
SOUTH BUILDING	
BAY 1 - SHOPPING CENTER MIXED USE	3,710
BAY 2 - SHOPPING CENTER MIXED USE	1,290
BAY 3 - RESTAURANT W DRIVE THRU (FAST FOOD)	2,065
TOTAL	**7,065**

PARKING DATA	**REQ**	**PROV**	
NORTH BUILDING			
SHOPPING CENTER - MIXED USE (1/225)	30.6		
RESTAURANT W DRIVE THRU (FAST FOOD) (1/150 SF - 1/250 SF)	23.4		
OUTDOOR SEATING (400 SF @ 1/150 SF - 1/250 SF)	4.3		
SOUTH BUILDING			
SHOPPING CENTER - MIXED USE (1/225)	22.2		
RESTAURANT W DRIVE THRU (FAST FOOD) (1/150 SF - 1/250 SF)	22.0		
OUTDOOR SEATING (400 SF @ 1/150 SF - 1/250 SF)	4.0		
SUB TOTAL	**106**	**95**	STANDARD + ADA SPACES
TOTAL		**112**	(INCLUDES LSEV) **Note: 6**
STANDARD PARKING SPACES		94	
ADA PARKING SPACES	4	5	
LOW SPEED ELECTRIC VEHICLES SPACES		6	
LOW SPEED ELECTRIC VEHICLES SPACES OR MOTORCYCLES		3	
QUEING SPACE PER CODE 8.9(2) B)(2) (MAX 25% OF REQUIRED)		4	
LOADING (12' x 35')	2	2	(NOT INCLUDED IN TOTAL)

AREA CALCULATIONS	**SF**	**AC.**	**%**
BUILDING FOOTPRINT	16,515	0.38	10.82%
VEHICULAR USE AREA	65,739	1.51	43.09%
SIDEWALKS & PLAZAS	15,074	0.35	9.88%
GREEN SPACE / PERVIOUS	55,241	1.27	36.21%
TOTAL	**152,569**	**3.50**	**100.00%**

SITE AMENITIES	**REQ**	**PROV**
BENCHES		4
BIKE RACK (5 SPACES PER BUILDING)	10	16
HIGH SPEED ELECTRIC VEHICLE CHARGING STATIONS		4

1. NOTE: SITE PLAN BASED ON SURVEY, SIGNED AND SEALED BY GEOPOINT INC.
2. NOTE: USE APPROVED PER PCD (+MPA 2020-05)
3. NOTE: ALL CANOPIES AND ROOF OVERHANGS EXCEEDING 24" ARE INCLUDED IN THE BUILDING LOT COVER CALCULATIONS
4. NOTE: RESTAURANT >50% FOOD SALES, WITH ANCILLARY BAR
5. NOTE: ADDITIONAL PARKING AVAILABLE ON PARCEL C BUT NOT REQUIRED TO MEET MINIMUM CODE REQUIREMENTS
6. NOTE: ADDITIONAL LOCATIONS TO BE PROVIDED ON PARCEL B ALONG NORTH SIDE OF EASTWEST DRIVE AISLE AS DESIGN SITE WITH THIS DEVELOPMENT PLAN
7. NOTE: OUTDOOR SEATING AREA TO SEAT SERVICE ONLY, NO WAITER SERVICE

PDR CHART

TABLE 3-12: MU District Non- Residential Standards

Non-Residential Use Type	Minimum Parcel Size (Square Feet)	Minimum Front Setback (Feet)	Minimum Side Setback (Feet)	Minimum Rear Setback (Feet)	Minimum Building Separation (Feet)	Maximum Lot Coverage	Minimum Pervious Percentage of Parcel
Commercial Uses		20	10	10	20	45%	25%

1. Buildings separated from residential zoning districts by a road or canal are not considered adjacent to residential zoning districts.

SETBACK CHART

Non-Residential Use Type	Front Setback (Feet)	Side - North Setback (Feet)	Side - South Setback (Feet)	Rear Setback (Feet)	Building Separation (Feet)
North Building	226.11	63.9	197.9	76.67	23.35
South Building	226.61	234.78	74.60	76.26	23.35

LEGEND

ADA	AMERICANS WITH DISABILITIES
LB	LANDSCAPE BUFFER
DE	DRAINAGE EASEMENT
R	RADIUS
OH	OVER HANG
SB	SETBACK
SW	SIDEWALK
EV	ELECTRIC VEHICLE
TYP	TYPICAL
LSEV	LOW SPEED ELECTRIC VEHICLE
ELEC TRANS	ELECTRONIC TRANSFORMER

ADA SIGN
STOP SIGN
DO NOT ENTER
GREASE TRAP
TRANSFORMER

LEGAL DESCRIPTION

DESCRIPTION:

BEING A PORTION OF LOT 2, WESTLAKE - POD H, AS RECORDED IN PLAT BOOK 129, PAGES 135 THROUGH 137, INCLUSIVE, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, LYING IN A PORTION OF SECTION 12, TOWNSHIP 43 SOUTH, RANGE 40 EAST, CITY OF WESTLAKE, PALM BEACH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF LOT 1, WESTLAKE - POD H, AS RECORDED IN PLAT BOOK 129, PAGES 135 THROUGH 137, INCLUSIVE, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE S.88°17'15"E., ALONG THE SOUTH LINE OF SAID LOT 1, A DISTANCE OF 384.78 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF PARCEL 101, AS RECORDED IN OFFICIAL RECORDS BOOK 28479, PAGE 822, OF SAID PUBLIC RECORDS; THENCE THE FOLLOWING SEVEN (7) COURSES BEING ALONG SAID WEST RIGHT-OF-WAY: 1) THENCE S.01°42'52"W., A DISTANCE OF 32.12 FEET; 2) THENCE S.15°12'36"W., A DISTANCE OF 51.43 FEET; 3) THENCE S.01°42'52"W., A DISTANCE OF 202.70 FEET; 4) THENCE S.00°43'28"W., A DISTANCE OF 58.80 FEET; 5) THENCE S.45°43'28"W., A DISTANCE OF 56.57 FEET; 6) THENCE N.89°16'32"W., A DISTANCE OF 40.00 FEET; 7) THENCE S.00°43'28"W., A DISTANCE OF 31.00 FEET; THENCE N.88°17'15"W., A DISTANCE OF 295.02 FEET; THENCE N.01°42'45"E., A DISTANCE OF 415.99 FEET TO THE POINT OF BEGINNING.

CONTAINING: 152,570 SQUARE FEET OR **3.502 ACRES**, MORE OR LESS.

PROJECT TEAM

PROPERTY OWNER:
MINTO PBLH, LLC
16604 TOWN CENTER PKWY.
NO., SUITE B
WESTLAKE, FL 33470
PHONE: 954-973-4490

DEVELOPER:
KONOVER SOUTH, LLC
431 FAIRWAY DR SUITE 201
DEERFIELD BEACH, FL 33441
PHONE: (954) 354-8282

SITE PLANNER/LANDSCAPE ARCHITECT:
COTLEUR & HEARING
1934 COMMERCE LANE,
SUITE 1
JUPITER, FL 33458
PHONE : 561-747-6336

ARCHITECT:
CUHACI & PETERSON
2600 MAITLAND CENTER PARKWAY,
SUITE 200
MAITLAND, FL 32751
PHONE: (407) 661-9100

CIVIL ENGINEER:
THOMAS ENGINEERING GROUP
6300 NW 31ST AVENUE
FORT LAUDERDALE, FL 33309
PHONE: 954-202-7000

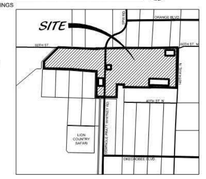
SURVEYOR:
GEOPOINT SURVEYING, INC
4152 WEST BLUE HERON BLVD,
SUITE 105
RIVIERA BEACH, FLORIDA 33404
PHONE: 561-444-2720

TRAFFIC ENGINEER:
PINDER TROUTMAN CONSULTING, INC.
2005 VISTA PARKWAY,
SUITE 111
WEST PALM BEACH, FL 33411-6700
PHONE: 561-296-9698

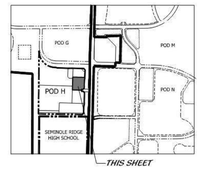
SEMINOLE IMPROVEMENT DISTRICT – ENGINEER :
CAULFIELD & WHEELER, INC.
7900 GLADES ROAD, SUITE 100
BOCA RATON, FL 33434
PHONE: 561-392-1991

SITE PLAN

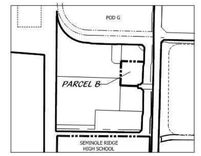
LOCATION MAP



KEY MAP



THIS SHEET



APPROVED SITE PLAN - FOR REFERENCE ONLY
N.T.S.

1 SP010

1 NEW SHEET ADDED 09/18/24

Cotleur & Hearing
Landscape Architects
Land Planners
Environmental Consultants
1934 Commerce Lane
Suite 1
Jupiter, Florida 33458
561.747.6336 · Fax 747.1377
www.cotleurhearing.com
Lic# LC-C000239

Donaldson E Hearing A01098 — Digitally signed by Donaldson E Hearing:A01098000000 — Date: 2024.03.14 16:26:52 -04'00'

3286A00016979

DONALDSON E. HEARING — LANDSCAPE ARCHITECT — LA 0009943 — STATE OF FLORIDA

DESIGNED	DEH
DRAWN	RNK
APPROVED	DEH
JOB NUMBER	13-0518.60.01
DATE	07-15-21
REVISIONS	09-10-21
01-03-24	10-04-21
01-29-24	10-15-21
03-08-24	07-11-22
	03-20-23
	04-26-23

Scale: 1" = 20'

March 08, 2024 1:19:34 p.m.
Drawing: 13-0518.60.01 SP.DWG

SHEET 1 OF 2

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Stefano De Luca
Florida Registered Architect
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SHOPPES AT WESTLAKE LANDINGS

POD H - PARCEL B
PALM BEACH COUNTY, FL

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

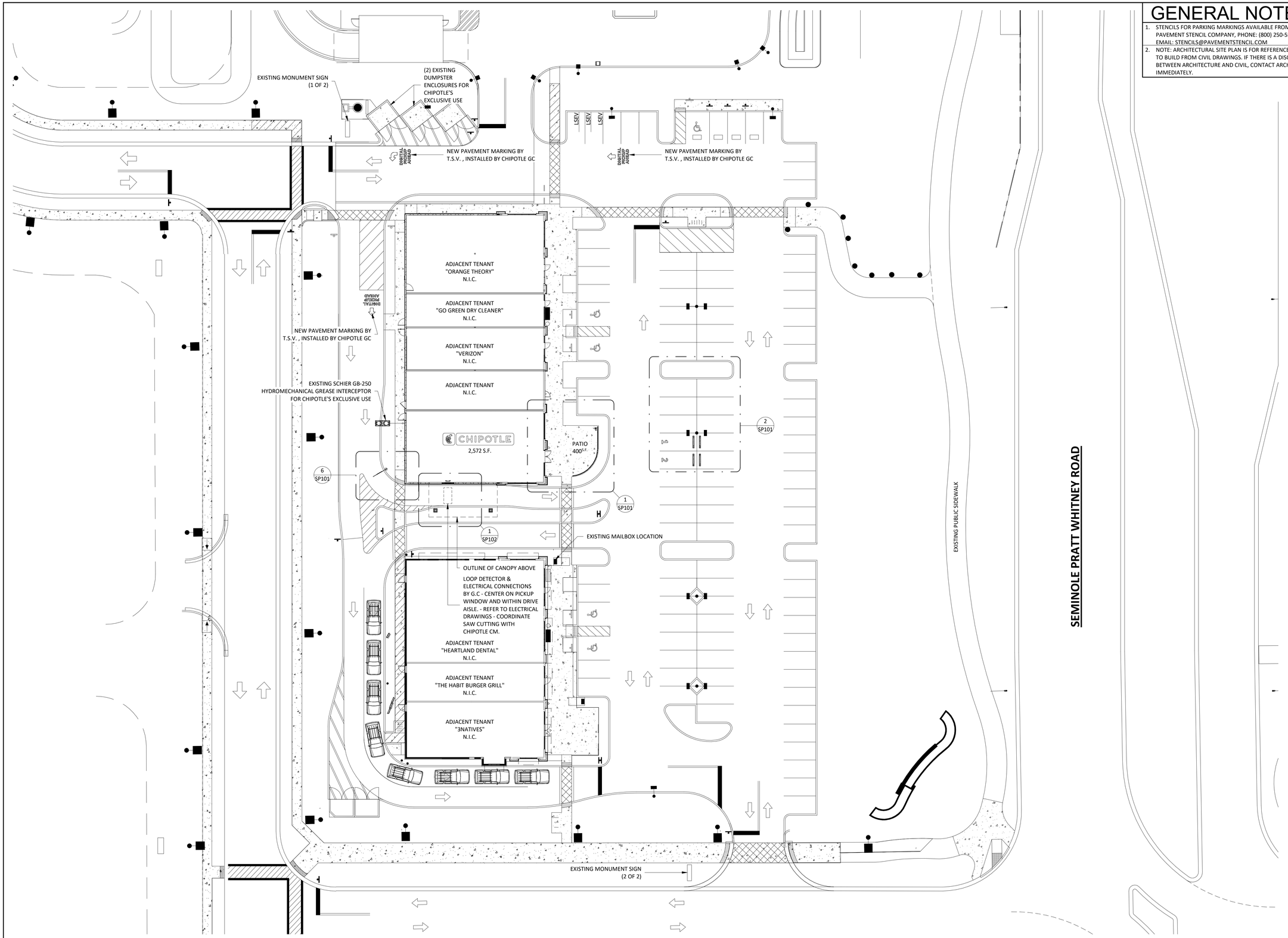
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06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET
1 Revisions:	
1 09.18.24	PLAN REVIEW REVISION

Drawn: ARL — Checked: SDL

Project No. CMG2321

Contents: APPROVED SITE PLAN - FOR REFERENCE ONLY

SP010



1 SP100 **ARCHITECTURAL SITE PLAN**
3/64" = 1'-0"

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.

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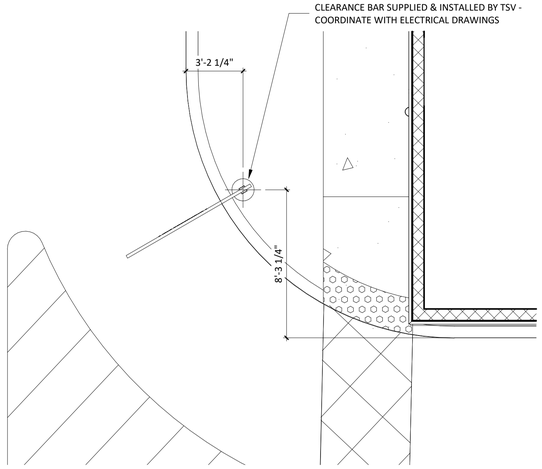
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Checked: SDL

Project No.: CMG2321

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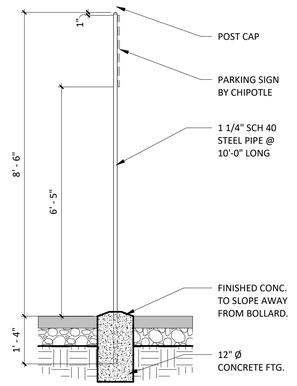
ARCHITECTURAL SITE PLAN

SP100



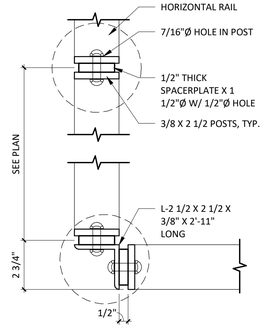
6 SP101 PLAN DETAIL @ CLEARANCE BAR

1/4" = 1'-0"



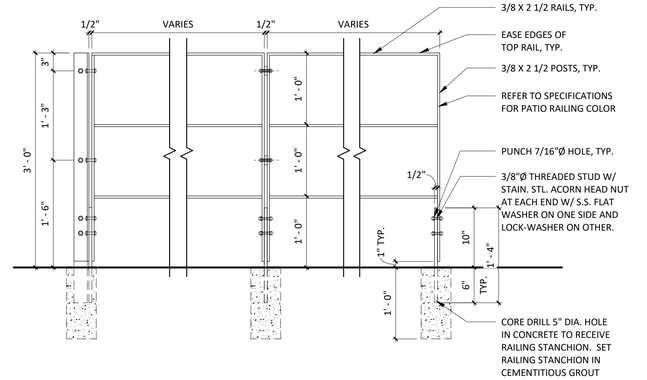
5 SP101 TYP. SIGN POST DETAIL

1/2" = 1'-0"



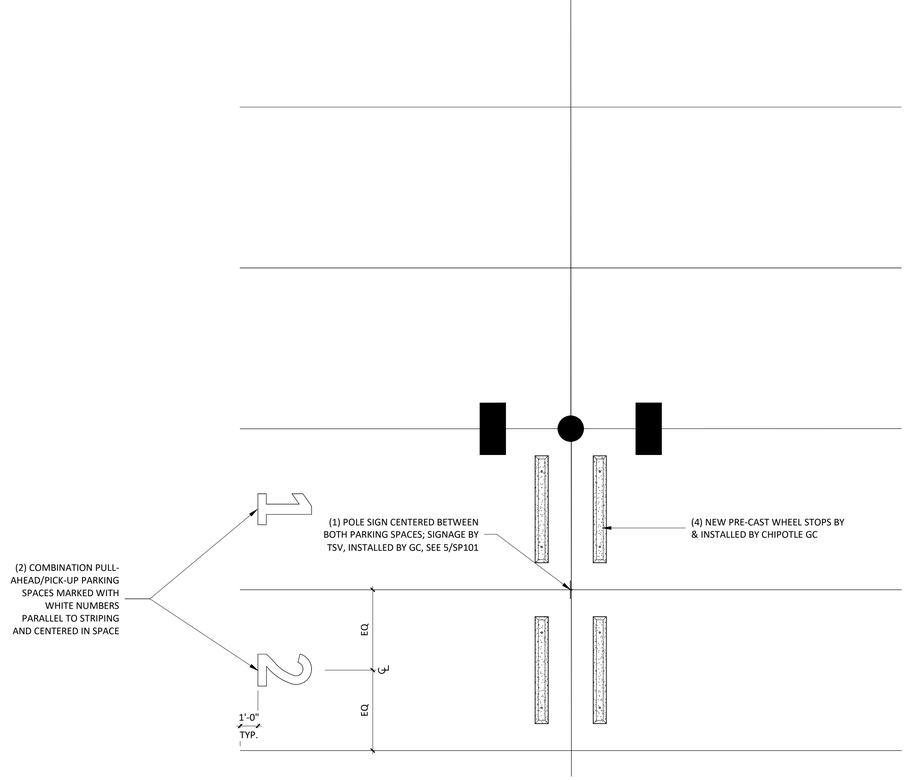
4 SP101 RAILING PLAN DETAIL

3" = 1'-0"



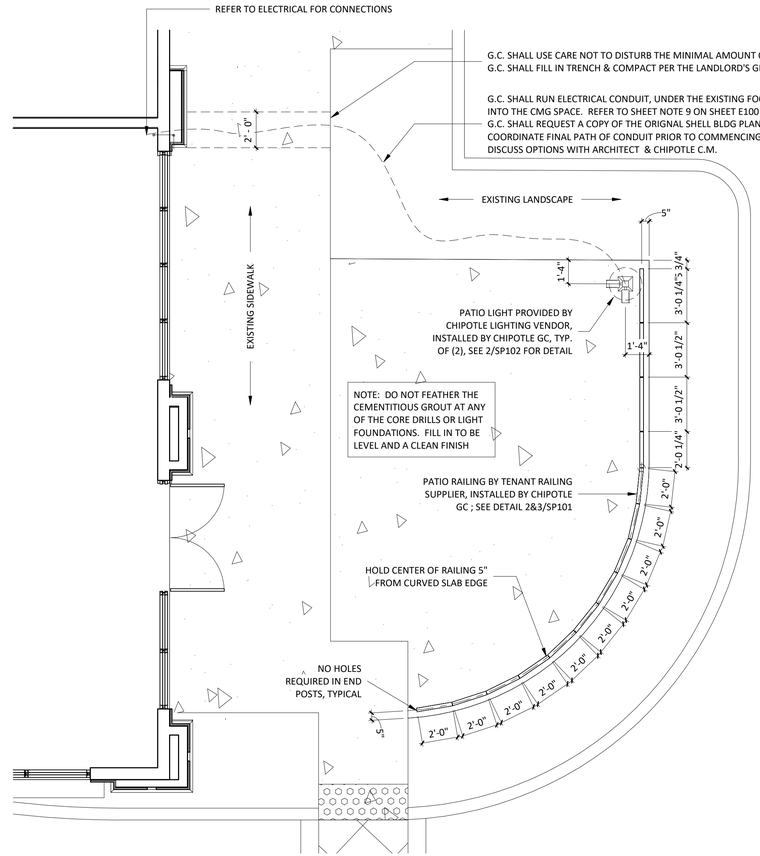
3 SP101 RAILING MOUNTING DETAIL

1" = 1'-0"



2 SP101 PLAN DETAIL @ TAKE-OUT PARKING

1/4" = 1'-0"



1 SP101 PLAN DETAIL @ PATIO

1/4" = 1'-0"

Consultant:

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4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:

ARCHITECTURAL SITE DETAILS

SP101

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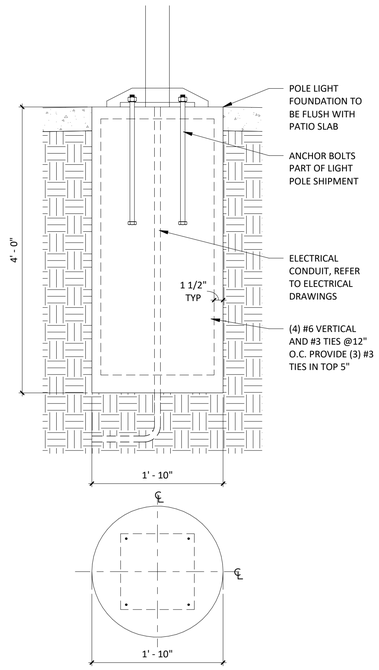
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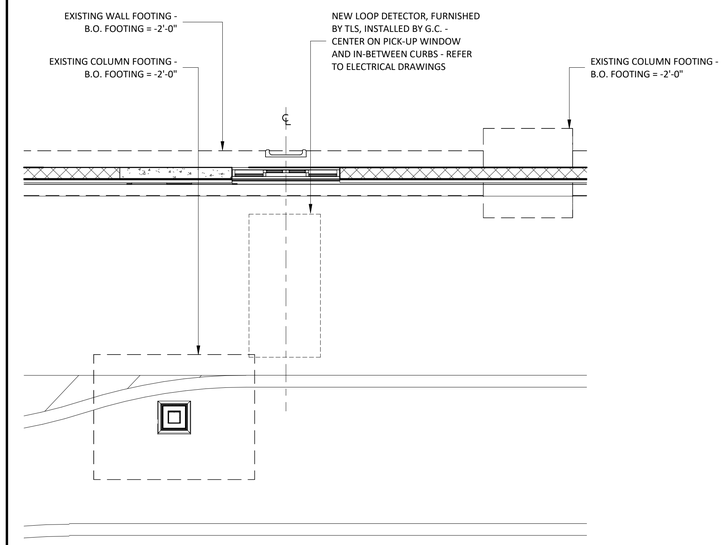
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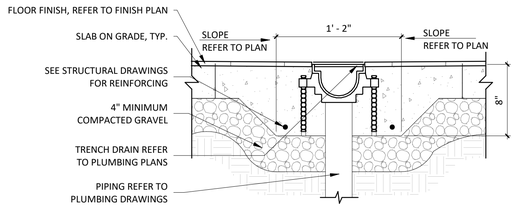
SP102



2 SP102 **PATIO POLE LIGHT FOUNDATION DETAIL**
1" = 1'-0"

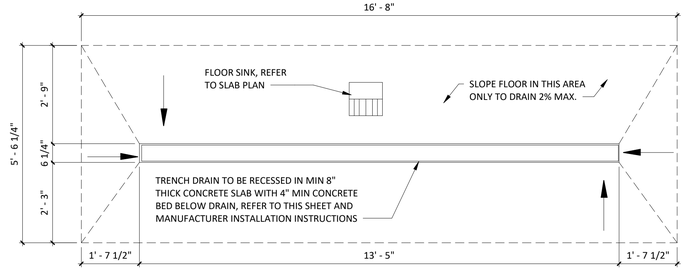


1 SP102 **PLAN DETAIL @ PICK-UP WINDOW**
1/4" = 1'-0"



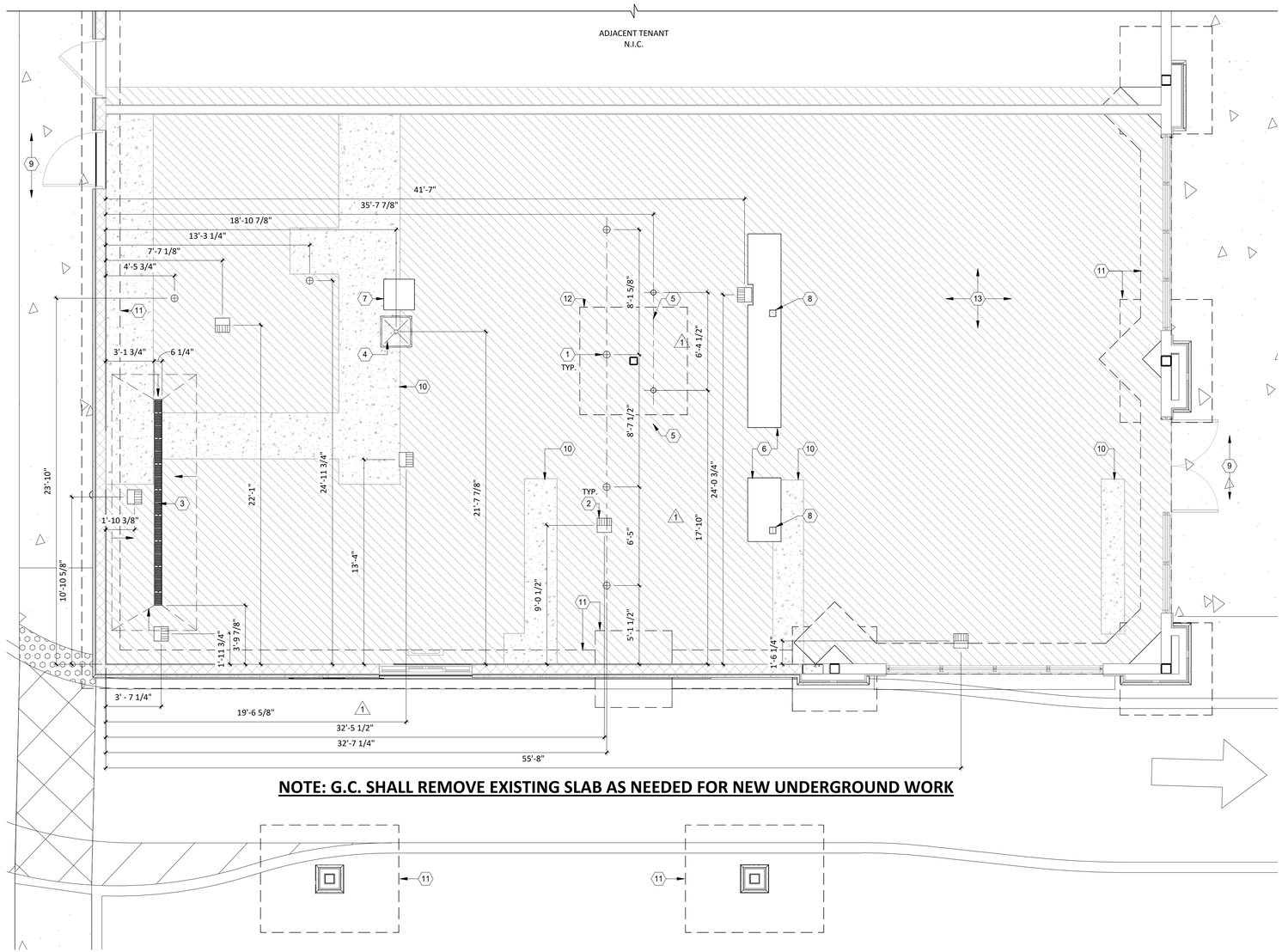
5 A101 **TRENCH DRAIN DETAIL**

1 1/2" = 1'-0"



4 A101 **TRENCH DRAIN PLAN DETAIL**

1/2" = 1'-0"



NOTE: G.C. SHALL REMOVE EXISTING SLAB AS NEEDED FOR NEW UNDERGROUND WORK

1 A101 **SLAB WORK PLAN**

1/4" = 1'-0"

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. 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.

PLUMBING LEGEND

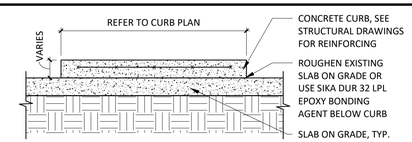
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

TERMITE TREATMENT NOTE

SOIL TREATMENT SHALL COMPLY WITH FBCB, SECTIONS 1816.1.1 THRU 1816.1.6 AND SECTION 1816.2 INCLUDING TREATMENT UNDER ALL CONCRETE OR GRADE WITHIN 12" OF THE OUTSIDE OF THE BUILDING WALLS, AND A VERTICAL CHEMICAL BARRIER APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED. ANY SOIL DISTURBED AFTER THE VERTICAL CHEMICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED. THE LICENSED PEST CONTROL COMPANY DOING THE WORK SHALL ISSUE A CERTIFICATE OF COMPLIANCE TO THE BUILDING DEPARTMENT PER FBC, SECTION 1816.1. TREATMENT SHALL BE WITH A REGISTERED TERMATICIDE LABELED FOR USE IN NEW CONSTRUCTION AS DEFINED IN FBCB, SECTION 202.

(#) KEYNOTES

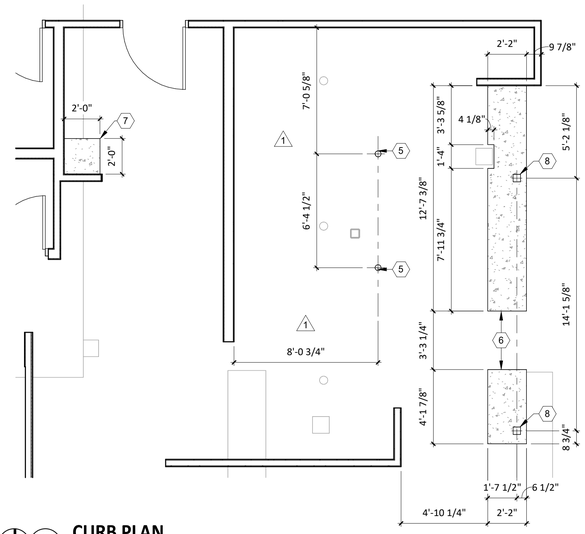
1. FLOOR DRAIN (TYP.) - SEE PLUMBING DRAWINGS
2. FLOOR SINK (TYP.) - SEE PLUMBING DRAWINGS AND COORDINATE SINK ELEVATION WITH A.H.J.
3. TRENCH DRAIN TO BE RECESSED IN MIN. 8" THICK CONCRETE SLAB WITH 4" MIN. CONCRETE BELOW DRAIN - SEE DETAIL 4 & 5/A101, STRUCTURAL DRAWINGS AND COORDINATE WITH PLUMBING DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. GC SHALL COORDINATE WITH PLUMBER TO INSURE THE DRAIN SOCK IS INSTALLED PER THE PLUMBING DRAWINGS. SLOPE FLOOR SLAB AS SHOWN TO TRENCH DRAIN, 2% MAX.
4. MOP SINK LOCATION - COORDINATE EXACT DRAIN LOCATION WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. 2" TALL CONCRETE CURB FOR POWER FEED - SEE 17/A802 AND COORDINATE WITH ELECTRICAL DRAWINGS.
6. 4" RAISED CONCRETE PAD (SECOND POUR). SEE SHEET A102 HEIGHTS, SIZES AND DETAILS, AND COORDINATE WITH STRUCTURAL DRAWINGS, AND WITH THE FLOOR PLAN FOR PARTITION SHEATHING LOCATIONS.
7. 5" RAISED CONCRETE PAD (SECOND POUR). SEE SHEET A102 HEIGHTS, SIZES AND DETAILS, AND COORDINATE WITH STRUCTURAL DRAWINGS, AND WITH THE FLOOR PLAN FOR PARTITION SHEATHING LOCATIONS.
8. 5" x 5" ELECTRICAL STUB UP FOR SERVELINE - REFER TO 2/A101 - COORDINATE WITH ELECTRICAL DRAWINGS
9. CONCRETE SIDEWALK - G.C. SHALL INSURE IT IS FLUSH WITH THE INTERIOR FLOOR SLAB AT ALL DOOR LOCATIONS.
10. NEW CONCRETE FLOOR SLAB ON VAPOR BARRIER ON WELL COMPACTED TERMITE TREATED FILL - SEE TERMITE TREATMENT NOTE ON THIS SHEET. SEE STRUCTURAL DRAWINGS FOR CONCRETE SPECIFICATIONS, THICKNESS, REINFORCING AND CONTROL JOINT LOCATIONS. NEW SLAB SHALL BE POURED FLUSH AND LEVEL WITH SURFACE OF EXISTING SLAB AT ALL DOORS. AFTER POURING THE NEW SLAB, THE GC SHALL GRIND THE JUNCTION TO INSURE THE SURFACES OF BOTH NEW AND EXISTING CONCRETE FLOORS ARE FLUSH AND EVEN. CAULK JOINT WITH CONTINUOUS BEAD OF TREMCO DYMERIC SEALANT PER THE SPECIFICATIONS.
11. EXISTING FOOTINGS - TOP OF FOOTING @ 24" BELOW FINISH FLOOR - GC TO FIELD VERIFY
12. EXISTING FOOTING - TOP OF FOOTING @ 36" BELOW FINISH FLOOR - GC TO FIELD VERIFY
13. EXISTING 4" CONCRETE SLAB - REMOVE AS NEEDED FOR CONSTRUCTION OF NEW PLUMBING



3 A101 **CONCRETE CURB DETAIL**

3/4" = 1'-0"

NOTE: ALL DIMENSION ON THIS PLAN TAKEN FROM FACE OF WALL SHEATHING



2 A101 **CURB PLAN**

1/4" = 1'-0"

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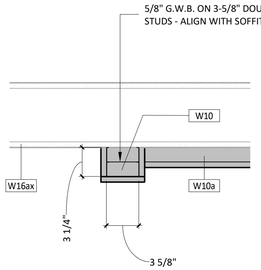
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Checked: SDL

Project No.: CMG2321

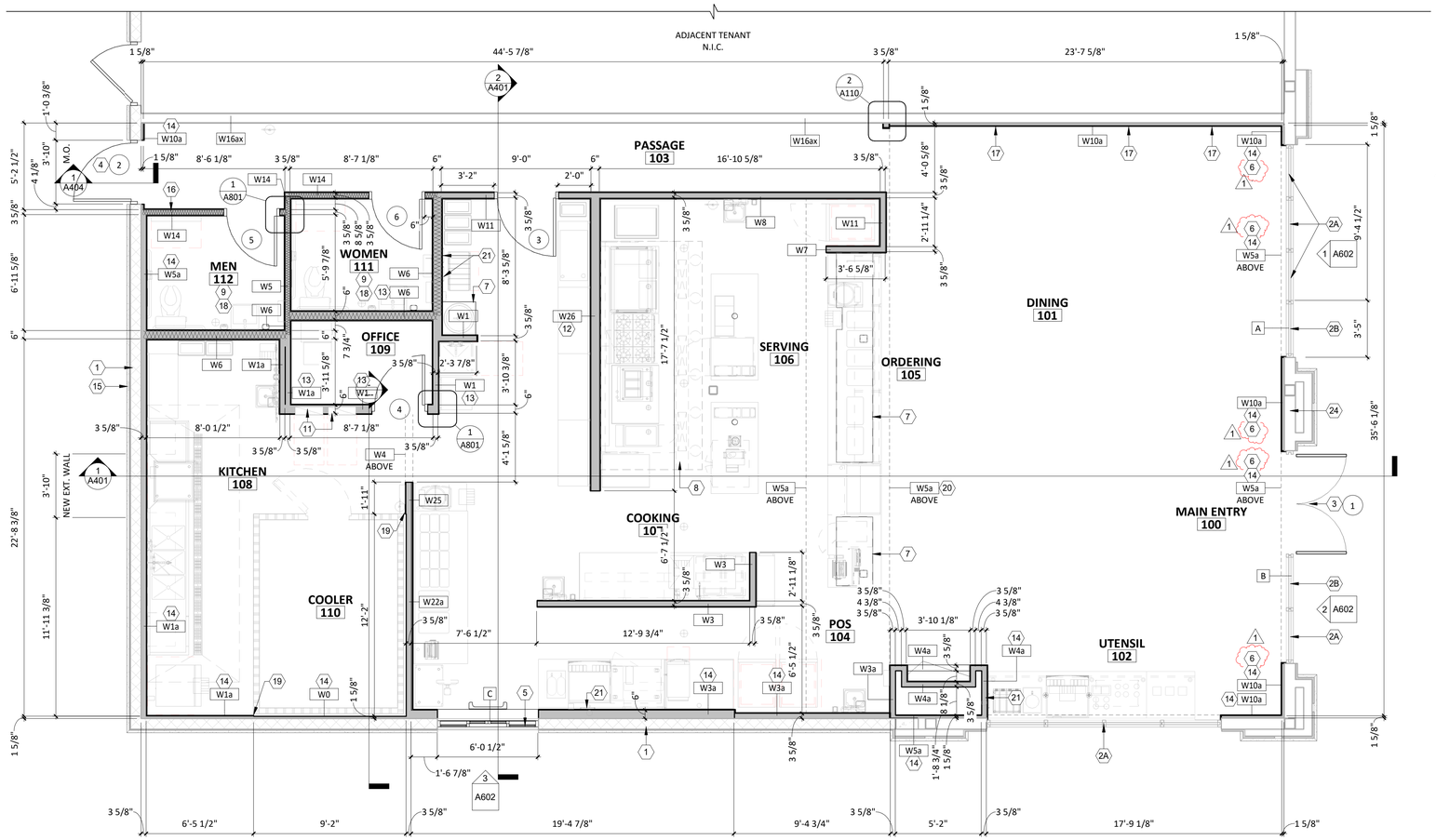
Contents: SLAB WORK PLAN

A101



FLOOR PLAN DETAIL @ PASSAGE ENTRANCE

2 / A110 — 1 1/2" = 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	

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/A501
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.

KEYNOTES

1. EXISTING 8" CMU WALL

2A. EXISTING STOREFRONT SYSTEM

2B. NEW STOREFRONT SYSTEM - REFER DEMOLITION SHEETS, ELEVATION SHEETS, AND PRODUCT APPROVAL SHEETS

3. NEW STOREFRONT DOORS IN MODIFIED STOREFRONT SYSTEM - REFER TO SHEETS A601, A602, AND A870-A875. VERIFY ALSO THAT THE THRESHOLD WILL NOT EXCEED 1/2" IN HEIGHT AND THAT THE EXISTING FLOOR SLAB IS FLUSH WITH THE EXISTING SIDEWALK.

4. NEW 3'-6" WIDE INSULATED HOLLOW METAL DOOR WITH EXIT DEVICE. GC SHALL VERIFY THAT THE THRESHOLD WILL NOT EXCEED 1/2" IN HEIGHT AND THAT THE EXISTING FLOOR SLAB IS FLUSH WITH THE EXISTING SIDEWALK. REFER TO SHEET A601 & PRODUCT APPROVAL SHEETS A880-A884

5. NEW IMPACT RATED PICKUP WINDOW IN NEW MASONRY OPENING PROVIDED BY CHIPOTLE / INSTALLED BY G.C. - **QUIKSERV -** MODEL: BP-7241E-IP-CHIPOTLE - SEE SHEET A602, PRODUCT APPROVAL SHEETS A890-A894, AND COORDINATE WITH THE STRUCTURAL & ELECTRICAL DRAWINGS

6. INTERIOR METAL FRAMING SHALL BE 1-5/8" THICK BELOW 10'-0 AFF AND 2-1/2" THICK ABOVE 10'-0" AFF AT EAST EXTERIOR WALL ONLY

7. RAISED CONCRETE PAD FOR KITCHEN EQUIPMENT/SERVELINE - SEE SHEET A101 & COORDINATE WITH STRUCTURAL DRAWINGS.

8. KITCHEN EXHAUST HOOD SUSPENDED FROM STRUCTURE ABOVE - SEE DETAIL 3/A141 FOR HOOD SUPPORT LOCATIONS.

9. G.C. SHALL INSTALL WOOD BLOCKING AS REQUIRED FOR ALL TOILET ROOM FIXTURES AND ACCESSORIES. SEE SHEET A710 FOR FIXTURE LOCATIONS AND REQUIRED CLEARANCES, AND SHEET G003 FOR ACCESSIBILITY MOUNTING HEIGHTS.

10. NEW ELECTRICAL PANELS - SEE ELECTRICAL DRAWINGS

11. DOOR BUZZER PUSH BUTTON - SEE HARDWARE SCHEDULE & ELECTRICAL DRAWINGS.

12. G.C. SHALL SUPPLY & INSTALL 24 GA. GALVANIZED STEEL UNDER THE SHEATHING BEHIND THE EXHAUST HOOD, AND EXTENDING 18" BEYOND THE HOOD IN ALL DIRECTIONS (WALL TYPE W26).

13. EXTEND **ALL** PARTITIONS AT THE OFFICE (BOTH STUDS AND SHEATHING) TO THE UNDERSIDE OF THE ROOF DECK

14. ALL EXISTING EXTERIOR WALLS SHALL HAVE NEW METAL FRAMING INSTALLED FROM SLAB TO UNDERSIDE OF THE ROOF DECK FOR INSTALLATION OF NEW MULTI-LAYER REFLECTIVE INSULATION. INSULATION TO BE "VR PLUS SHIELD HI-PERM" AS MANUFACTURED BY FI-FOIL COMPANY (800-448-3401). INSULATION SHALL BE TAPE TAB TYPE FOR APPLICATION ON METAL FRAMING AND SHALL BE INSTALLED AT ALL EXTERIOR WALLS. INSTALL PER SPECIFICATION SECTION 07210 AND PER ALL MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. SEE DETAIL 4/A502.

15. NEW CO2 REMOTE FILL PORT SUPPLIED AND INSTALLED BY CHIPOTLE'S CO2 SUPPLIER. CONTACT CHIPOTLE'S CO2 VENDOR FOR SCHEDULING AND REQUIREMENTS & COORDINATE FINAL LOCATION & ROUTING. G.C. SHALL COORDINATE WITH THE CHIPOTLE CONSTRUCTION MANAGER AND THE CO2 VENDOR TO INSURE THAT THE FILL PORT AND ALL REQUIRED TUBING IS INSTALLED PRIOR TO INSTALLATION OF THE WALL SHEATHING.

16. G.C. SHALL INSTALL BLOCKING AS REQUIRED FOR LICENSE FRAME - SEE SHEET A130 FOR LOCATION AND SHEET A701 FOR MOUNTING HEIGHT.

17. G.C. SHALL INSTALL BLOCKING AS REQUIRED FOR ART PANELS - SEE SHEET A701

18. GC SHALL SUPPLY AND INSTALL SOUND ATTENUATION BATT INSULATION @ ALL TOILET ROOM PERIMETER PARTITIONS AND CEILINGS.

19. ALIGN FACE OF NEW SHEATHING WITH FACE OF COOLER - SEE DETAIL 14/A801

20. SEE 2/A202 FOR LOCATION OF SERVELINE SOFFIT FRAMING

21. 4" PVC PIPE STUBBED ABOVE CEILING FOR SODA BUNDLE. 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 PLUMBING DRAWING

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Project No.: CMG2321

Contents: ARCHITECTURAL FLOOR PLAN

A110

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	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, PAINT "VICTORIAN PEWTER"	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)			D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C2	STONEWOOD		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C3	GYP BD; PAINT "MOONLIT SNOW"		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE	C4	2X4 VINYL-FACED LAY-IN		
F6	PORCELAIN TILE			P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)	C5	FELT BAFFLES		
				P7	NOT USED				
				P8	NOT USED				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT				
				P11	STONEWOOD WALL PANEL				
				P12	NOT USED				

ROOM FINISH SCHEDULE

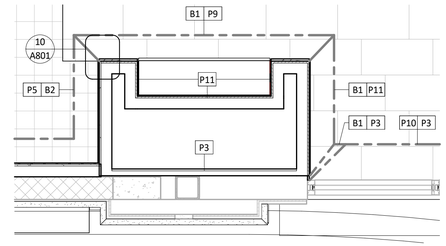
ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY	F1	B1	REFER TO PLAN FOR WALL FINISHES	C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1		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	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	WOMEN	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	MEN	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
113	PATIO	F3	-		-	-	-

KEY NOTES

1. 1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5' AFF WITH FPR CORNER TRIM ABOVE - TYPICAL AT ALL OUTSIDE FRP CORNERS
2. SCHLUTER QUADEC METAL CORNER TRIM - SEE 11/A802 - TYPICAL AT ALL OUTSIDE TILE CORNERS
3. ALUMINUM TRIM - SEE DETAIL 12/A802. FOR FRAMING AT THE WINDOW, SEE 12 & 13/A802. NOTE: AT ALL SILL CONDITIONS, THE ALUMINUM PLATE SHALL BE ADHESIVELY ADHERED - NO SCREW HOLES.
4. COOLER WALL PANELS, AS PROVIDED BY THE COOLER MANUFACTURER, HAVE 26 GAUGE COATED AND EMBOSSED STEEL FINISH - INSIDE AND OUTSIDE - COMPLYING WITH FBCB 2603.4.1.2.
5. HEADER ABOVE - SEE 12/A210.
6. GC SHALL PROVIDE AND INSTALL 18 GA. STAINLESS STEEL AROUND EXISTING STEEL COLUMN.
7. NOT USED
8. GC TO SUPPLY AND INSTALL 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, SEE 17/A801
9. THE G.C. SHALL APPLY QUARRY TILE TO THE TOP OF THE RAISED CONCRETE SERVELINE PAD AS SHOWN FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE - SEE DETAIL 1/A802. GC SHALL COORDINATE THE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10. THE G.C. SHALL APPLY QUARRY TILE TO THE TOP AND EXPOSED EDGES OF THIS RAISED CONCRETE EQUIPMENT PAD. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE - SEE DETAIL 1/A802 - SIM.
11. IN TOILET ROOMS, GC SHALL INSTALL FRP SHEETS HORIZONTALLY, WITH TRIM LOCATED AS DETAILED ON 18/A801
12. FRP CLOSURE AS REQUIRED @ COOLER AIR GAP - SEE DETAIL 14/A801
13. NOT USED
14. PROVIDE WATER PROOFING MEMBRANE, SEE DETAILS 4 & 5/A802. AT TOILET ROOMS, SEE DETAIL 18/A801. TYPICAL AT ALL SERVING, COOKING, KITCHEN, OFFICE, COOLER AND TOILET ROOM PARTITIONS.
15. INSTALL BULLNOSE QUARRY TILE CORNERS AT ALL EXPOSED BASE OUTSIDE CORNERS - SEE SPECIFICATIONS
16. GC SHALL PROVIDE AND INSTALL 18 GA. STAINLESS STEEL AROUND EXPOSED REFRIGERANT LINES AT THE ICE MAKER.

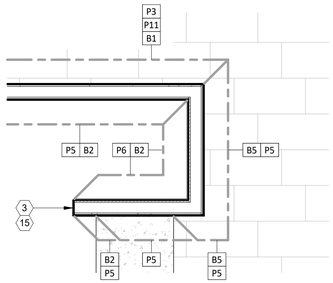
GENERAL NOTES

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).



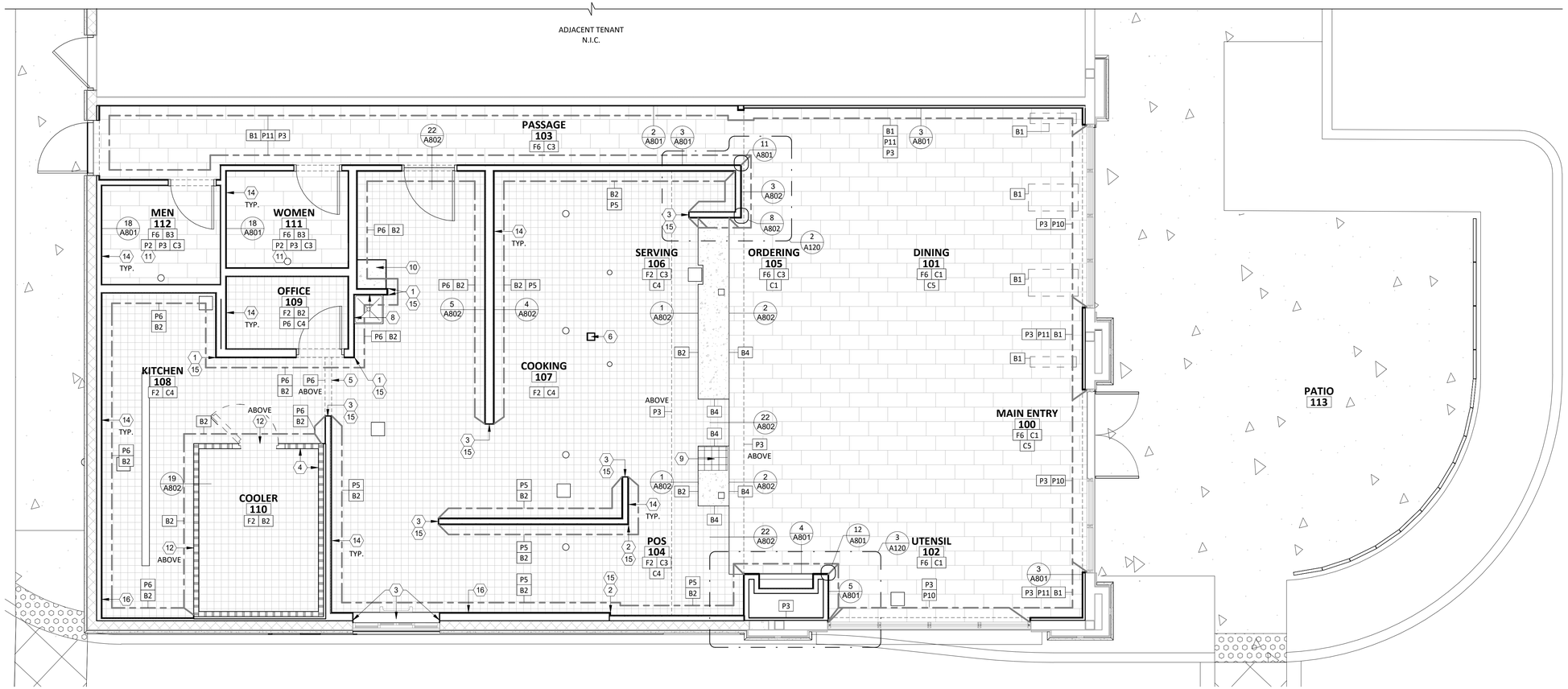
3 A120 **FINISH PLAN DETAIL**

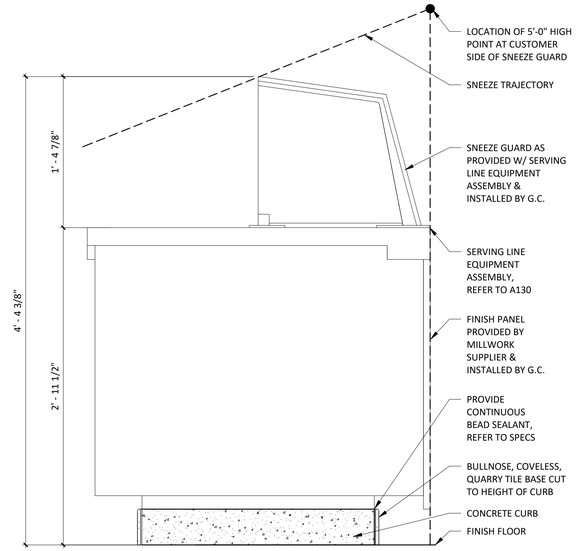
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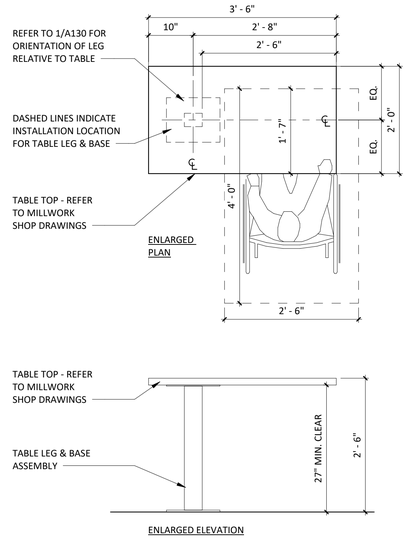
2 A120 **FINISH PLAN DETAIL**

1/2" = 1'-0"


ADJACENT TENANT
N.I.C.
PASSAGE 103 F6 C3
MEN 112 F6 B3 P2 P3 C3
WOMEN 111 F6 B3 P2 P3 C3
OFFICE 109 F2 B2 P6 C4
KITCHEN 108 F2 C4
COOLER 110 F2 B2
COOKING 107 F2 C4
SERVING 106 F2 C3 C4
ORDERING 105 F6 C3 C1
DINING 101 F6 C1 C5
POS 104 F2 C3 C4
UTENSIL 102 F6 C1
MAIN ENTRY 100 F6 C1 C5
PATIO 113
B1 P11 P3
B1 P11 P3
B1
P3 P10
B1
P3 P11 B1
B1
P3 P10
P3 P11 B1
P3
P10
ABOVE
P3
ABOVE
P3
ABOVE
B2
ABOVE
B4
P5 B2
P6 B2
P6 ABOVE
B2 P5
P5 B2
P5 B2
P5 B2



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



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

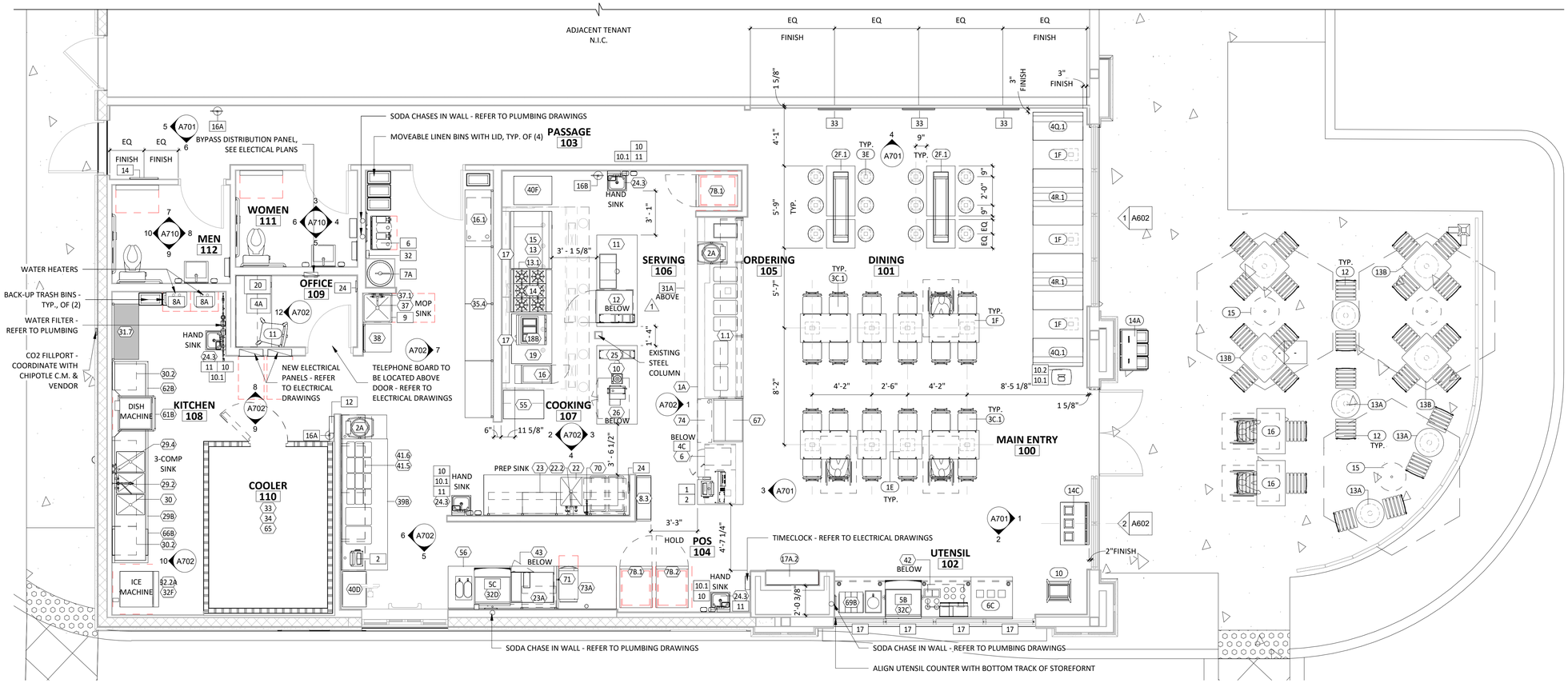
GENERAL NOTES - FF&E

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

SEATING SUMMARY

SPACE	AREA	CUSTOMERS*
DEMISED PREMISES	2572 SF	48
PATIO	400 SF	28
TOTAL	**2972 SF**	**76**

* CUSTOMER COUNT IS INCLUDED FOR REFERENCE: USED BY CHIPOTLE FOR INTERNAL MARKETING AND PLANNING PURPOSES



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

Consultant:

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Project No.
CMG2321

Contents:
FF&E PLAN

A130

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.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	2	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	1	KES	KES	●				
8.3	CUSTOM SIZE M4.5 Chip Shelf 3'-2" WIDE	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
1 11	Carving Station - 77x34in - Horizontal Well - Left	Delfield	77x34in Carving Station - LT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
1 13	Grill 48in - Natural Gas - Divider Right	Woodstone	WS-PL-48-36-4-CT-Right	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		●			
1 15	Woodstone Grill Stand 48x31in - Divider Right	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	Varies	Chipotle Grease Caddy - RH	1	KES	KES					
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-72WS-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
1 19	Rice Cooker Stand	Nationwide Fab; Marlo Mfg	Custom	1	KES	KES					
1 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.
23A	2 Shelves - 30in	Amco	Custom	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	4	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	4	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 21x48x85in - With Vented Aluminum Covers	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1A	Ice Maker - Remote Condenser	Hoshizaki	URC-5FZ	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	3	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	3	KES	KES			●		
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.
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshisaki	KMD-530MRJZ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32F	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MAJ	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 6in - Standard	Manitowoc/Norlake	CHP912SR-RS	1	WC$	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 - 9x12x9	Cambro (Camshelving)	CHP912ER	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					
40D	Holding Shelf - Custom 35'	Trimark	TGS-39X20X80-B	1	KES	KES	●				
40F	M4.5 - Filler Stand At Range	Select Stainless	24x32x36	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
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	Trimark	TS-36x92.5x36	1	KES	GC	●			●	
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
66B	Drop-Off Table - 22x30in	Trimark	TS-22x30x31-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					
CU-2	Ice Maker - Remote Condenser	Hoshizaki	URC-14F	1	KES	KES	●				
CU-3	Ice Maker - Remote Condenser	Hoshizaki	URC-14F	1	KES	KES	●				

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Contents:

EQUIPMENT SCHEDULE

A131

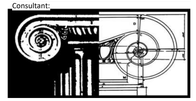
MISC EQUIPMENT LIST

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					Install in Office, Bolt to Office Floor Slab
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
5C	Soda Dispenser - With Remote 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	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	4	WA	GC					
10.1	Hand Sanitizer Dispenser	5	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	4	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
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.
16	Fire Extinguisher Package	1	GC	GC					Fire Extinguisher Package includes (2) Type 'ABC' and (1) Type 'K' Fire Extinguishers to be mounted in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16A	Fire Extinguisher Type ABC - B456	2	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	4	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	2	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
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33	Framed Photograph	3	T	GC					Provide Plywood Backing In Wall At Picture Frame Location, Refer To Arch. Floor Plans And Elevations For Picture Frame Location.
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)	7	TMS	GC					See Detail On A130
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	24	TMS	GC					
3E	M4.0 - Bar Stool - Fixed	12	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4Q.1	M4.0 - Booth - Single - 42"	2	TMS	GC					
4R.1	M4.0 - Booth - Double - 42"	2	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				●	Coordinate Floor Drain Installation with Utensil Counter Installation, Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	28	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	4	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	4	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
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	3	KES	GC					
16	Accessible Patio Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

Consultant:



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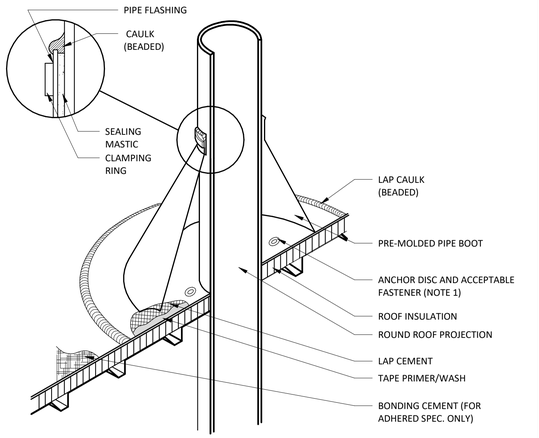
EQUIP. & FURNITURE SCHEDULE

A132

HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

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

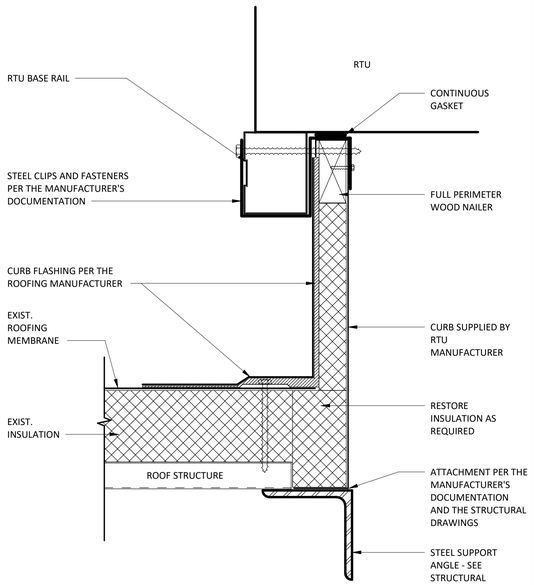


NOTE:

1. MEMBRANE MUST BE ATTACHED AS SPECIFIED BY THE ROOFING MANUFACTURER, FOR THE INSTALLED SYSTEM, IN ORDER TO MAINTAIN THE ROOF WARRANTEE.
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 AS SPECIFIED BY THE ROOFING MANUFACTUER, FOR THE INSTALLED SYSTEM, IN ORDER TO MAINTAIN THE ROOF WARRANTEE.
5. ALL MATERIALS USED MUST BE AS SPECIFIED BY THE ROOFING MANUFACTURER, FOR THE INSTALLED SYSTEM, IN ORDER TO MAINTAIN THE ROOF WARRANTEE.

3 / A140 TYPICAL PIPE FLASHING DETAIL

1/2" = 1'-0"



2 / A140 CURB ATTACHMENT & FLASHING DETAIL @ CLIP

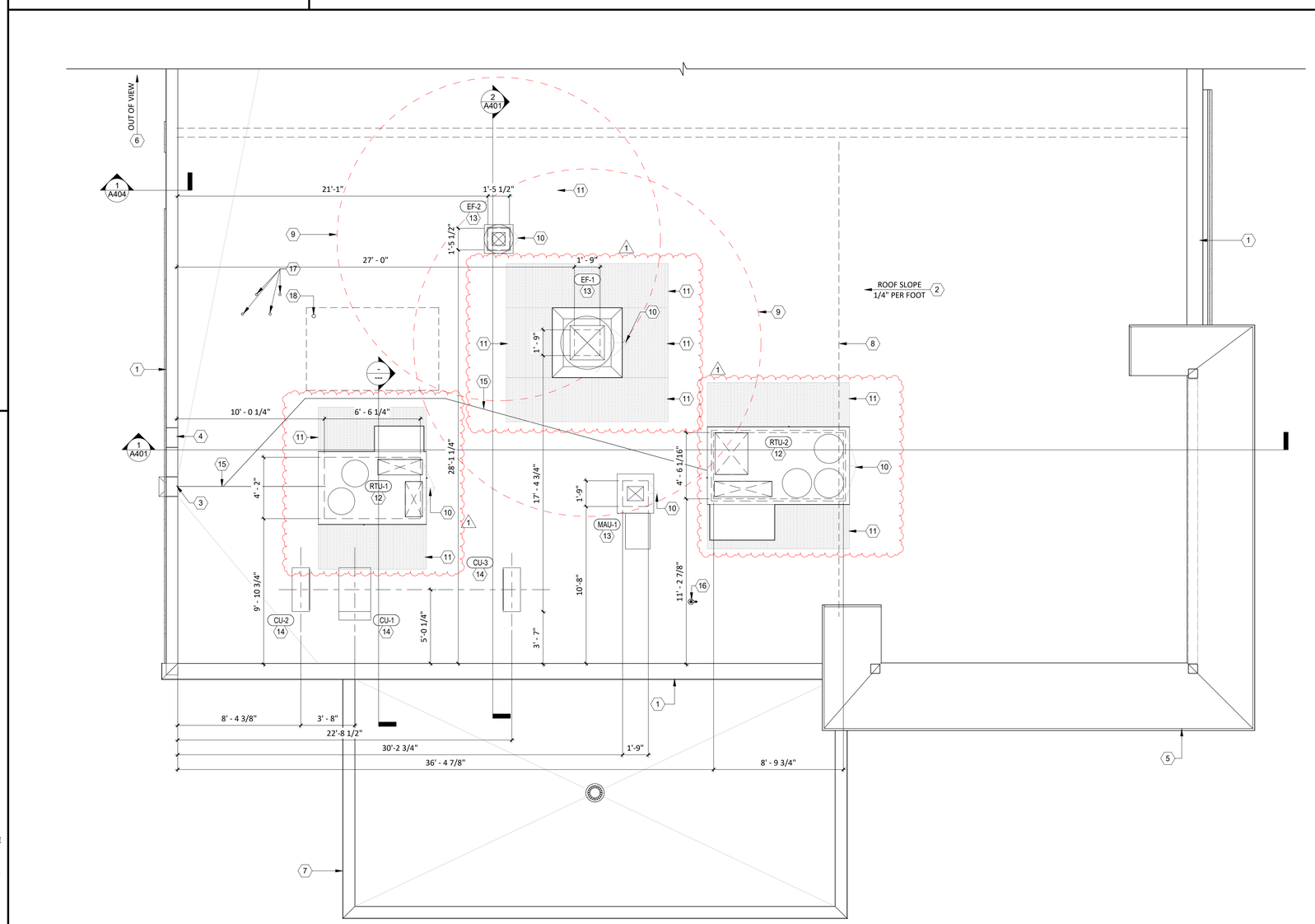
3" = 1'-0"

GENERAL ROOF 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 ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. 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. PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8. PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
9. LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.

KEYNOTES

1. EXISTING PARAPET WALL WITH METAL COPING
2. EXISTING SINGLE-PLY ROOF ON RIGID INSULATION (R-25) ON METAL DECK - G.C. SHALL CONTRACT WITH THE LANDLORD'S ROOFER FOR ANY ROOF REPAIR, FLASHING AND ALL NEW PENETRATIONS, AS WELL AS ANY OTHER NEW ROOFING WORK. SEE COVER SHEET FOR ROOFER'S CONTACT INFORMATION. GC TO FIELD VERIFY ALL EXISTING CONDITIONS.
3. EXISTING PRIMARY ROOF DRAIN - FIELD VERIFY
4. EXISTING OVERFLOW ROOF DRAIN - FIELD VERIFY
5. EXISTING FRAMED TOWER ELEMENT
6. EXISTING ROOF ACCESS LADDER
7. EXISTING FRAMED PICK-UP LANE CANOPY
8. GWB SOFFIT BELOW
9. MINIMUM 10' CLEARANCE BETWEEN ANY EXHAUST SOURCE AND ANY AIR INTAKE.
10. NEW TAPERED INSULATION CRICKET @ ALL CURB MOUNTED EQUIPMENT - 1/2" SLOPE MIN. G.C. SHALL FIELD VERIFY ALL ROOF SLOPES AND INSTALL CRICKETS AS REQUIRED TO MAINTAIN DRAINAGE AWAY FROM ROOFTOP EQUIPMENT AND TOWARD ROOF DRAINS. GC SHALL COORDINATE TO INSURE CRICKETS ARE INSTALLED BY THE ROOFER.
11. NEW WALK PADS AROUND ALL ROOFTOP EQUIPMENT. PRODUCT SHALL BE AS APPROVED BY THE ROOFING SYSTEM MANUFACTURER. GC SHALL COORDINATE TO INSURE WALK PADS ARE INSTALLED BY THE ROOFER.
12. NEW RTU ON ROOF CURB - CURBS MUST BE INSTALLED PER THE MANUFACTURER'S DOCUMENTATION AND THE STRUCTURAL DRAWINGS. CURBS SHALL BE TALL ENOUGH SUCH THAT THERE IS A MINIMUM OF 8" BETWEEN THE ROOF SURFACE AND THE UNDERSIDE OF THE EQUIPMENT PER FBCB SECTION 1510.10. G.C. SHALL VERIFY DEPTH OF INSULATION AROUND THE PERIMETER OF EACH CURB AND SHALL INSTALL SUPPORT PER THE ALTERNATE STRUCTURAL DETAIL IF GREATER HEIGHT IS REQUIRED. **NOTE: ALL CLIPS AND FASTENERS SHALL BE INSTALLED PER THE MANUFACTURER'S DOCUMENTATION ON SHEET A142 - COORDINATE WITH THE STRUCTURAL DRAWINGS.** THE ROOFING SUBCONTRACTOR SHALL FLASH THE RTU CURBS AS REQUIRED BY THE ROOFING SYSTEM MANUFACTURER TO MAINTAIN THE ROOF WARRANTY.
13. NEW FAN ON ROOF CURB - CURBS MUST BE INSTALLED PER THE N.O.A. CURBS SHALL BE TALL ENOUGH SUCH THAT THERE IS A MINIMUM OF 8" BETWEEN THE ROOF SURFACE AND THE UNDERSIDE OF THE EQUIPMENT PER FBCB SECTION 1510.10 (18" @ EF-1 GREASE EXHAUST PER FBCM 506.3.6). G.C. SHALL VERIFY DEPTH OF INSULATION AROUND THE PERIMETER OF EACH CURB AND SHALL INSTALL SUPPORT PER THE ALTERNATE STRUCTURAL DETAIL IF GREATER HEIGHT IS REQUIRED. **NOTE: ALL FASTENERS SHALL BE INSTALLED PER THE N.O.A. (SEE SHEETS A830 & A840).** THE ROOFING SUBCONTRACTOR SHALL FLASH THE RTU CURBS AS REQUIRED BY THE ROOFING SYSTEM MANUFACTURER TO MAINTAIN THE ROOF WARRANTY.
14. NEW REMOTE CONDENSER (SEE MECHANICAL DRAWINGS) ON EQUIPMENT STANDS THAT ARE SUPPLIED & INSTALLED BY THE G.C. STAND SHALL PROVIDE A MINIMUM OF 16" CLEARANCE ABOVE THE ROOF SURFACE PER FBCB TABLE 1510.10. G.C. SHALL VERIFY THE DEPTH OF INSULATION AT EACH LEG AND INSURE THE REQUIRED CLEARANCE IS MAINTAINED. FLASH EACH LEG PER DETAIL 3/A140 OR AS REQUIRED BY THE ROOFING MANUFACTURER TO MAINTAIN THE ROOF WARRANTY. THE EQUIPMENT STANDS SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE MIAMI-DADE COUNTY NOA AND IN COORDINATION WITH THE STRUCTURAL DRAWINGS. SEE SHEET A141 FOR CONDENSER INFORMATION. **NOTE: ALL FASTENERS SHALL BE INSTALLED PER THE N.O.A. (SEE SHEET A820).**
15. NEW CONDENSATE LINE ON PIPE STANDS - EXTEND CONDENSATE LINES TO THE PRIMARY ROOF DRAIN. **CONDENSATE MUST NOT DISCHARGE INTO THE OVERFLOW DRAIN - GC TO FIELD VERIFY.** COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS.
16. G.C. SHALL VERIFY IF THERE IS AN EXISTING ROOF HYDRANT - PROVIDE NEW ROOF HYDRANT IF NOT EXISTING - SEE PLUMBING DRAWINGS
17. COORDINATE VTR, GAS FLUE, AND ALL OTHER PENETRATIONS WITH MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS. ALL PENETRATIONS SHALL BE FLASHED AS REQUIRED TO MAINTAIN THE ROOF WARRANTY (SEE TYPICAL DETAIL ON THIS SHEET).
18. THROUGH-ROOF CONDUIT FOR CELL BOOSTER, REFER TO ELECTRICAL DRAWINGS - FLASH AS REQUIRED TO MAINTAIN THE ROOF WARRANTY



1 / A140 ROOF PLAN

1/4" = 1'-0"

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1	10.10.24	CB-2

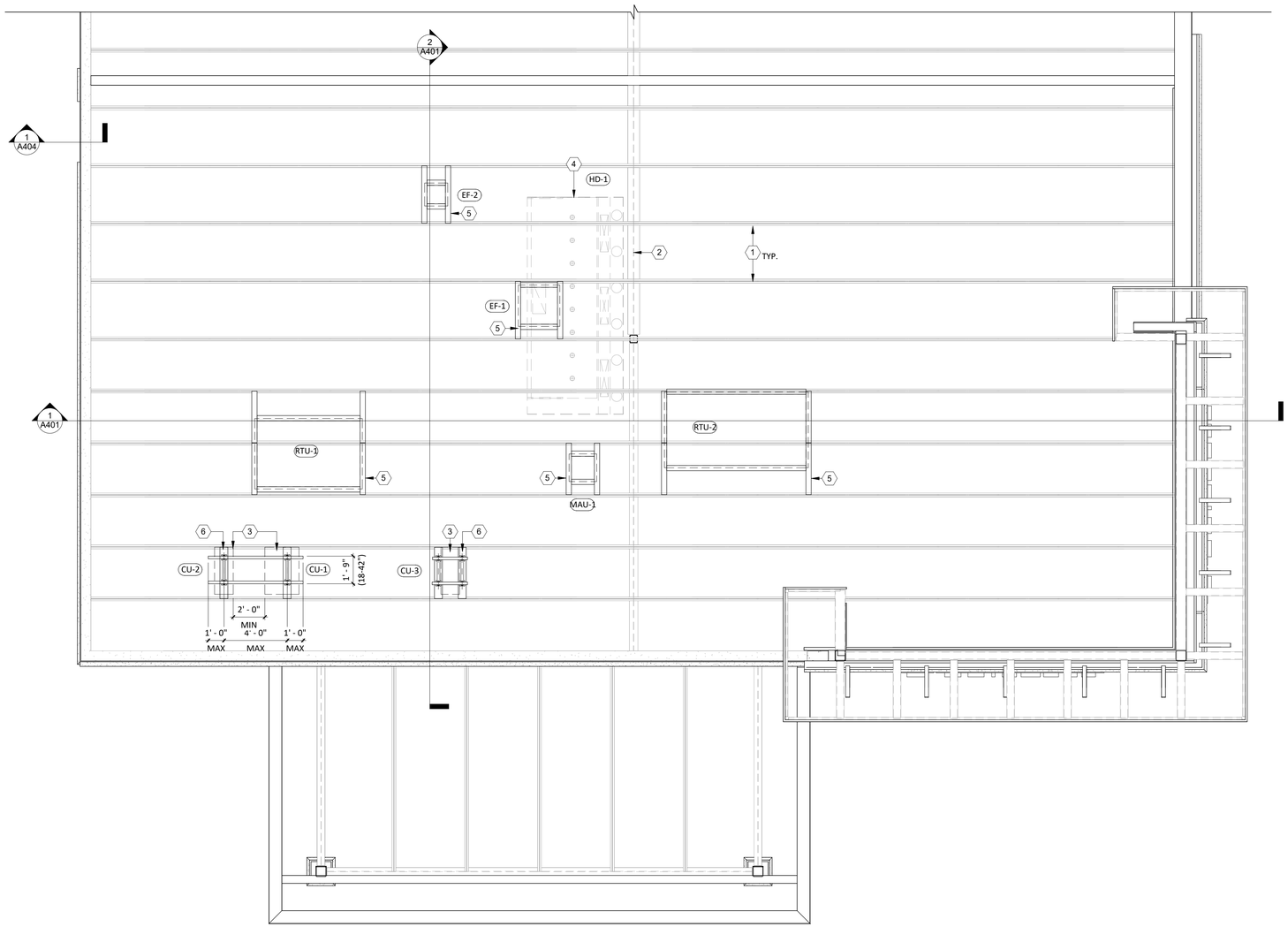
Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:

ARCHITECTURAL ROOF PLAN

A140



ROOF FRAMING PLAN

1/4" = 1'-0"

KEYNOTES

1. EXISTING STEEL JOISTS
2. EXISTING W BEAM
3. CU-1:
   19" H x 23" W x 33" L
   APPROX. WEIGHT = 200 LBS

   CU-2
   22" H x 14" W x 36" L
   APPROX. WEIGHT = 100 LBS

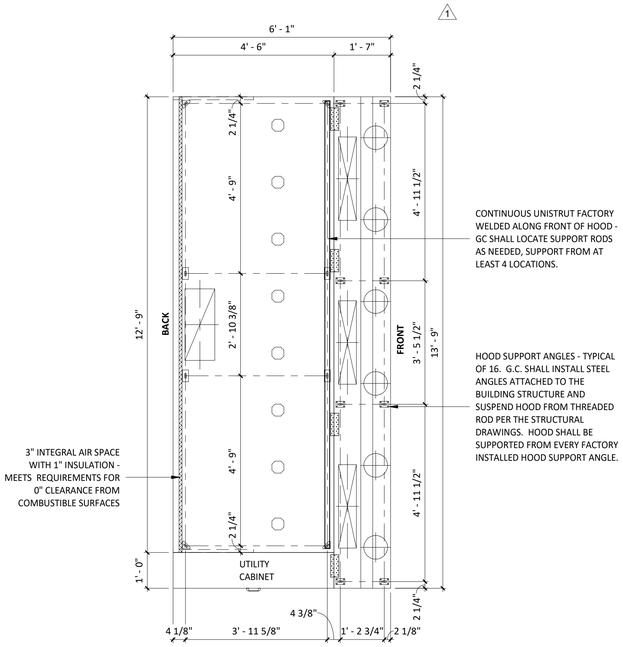
   CU-3
   18" H x 14" W x 22" L
   APPROX. WEIGHT = 100 LBS

   THE CONDENSING UNITS SHALL BE MOUNTED ON ALUMINUM STANDS AS MANUFACTURED BY MIAMI TECH, INC. (PH: 305-693-7054).

   STAND MOUNTED EQUIPMENT IS SUBJECT TO **110 PSF** LATERAL WIND PRESSURE (SEE STRUCTURAL DRAWINGS).

   CONNECTION OF THE STAND TO BUILDING STRUCTURE, AND OF THE CONDENSER UNIT TO THE STAND MUST COMPLY WITH THE MIAMI-DADE COUNTY NOA - SEE SHEETS A820-A821.

   STEEL ANGLES FOR SUPPORT OF THE STANDS SHALL BE INSTALLED AS DETAILED ON THE STRUCTURAL DRAWINGS. FINAL LOCATIONS OF THE STEEL TUBE S UPPORTS FOR THE STAND BASE PLATES SHALL BE COORDINATED BY THE G.C. WITH THE STAND MANUFACTURER'S SHOP DRAWINGS.
4. KITCHEN EXHAUST HOOD SUSPENDED FROM BOTTOM CHORD OF THE STEEL JOISTS WITH THREADED ROD - SEE 2/A141 FOR HOOD SUPPORT LOCATIONS AND STRUCTURAL DRAWINGS FOR DETAILS. COORDINATE LOCATIONS WITH EQUIPMENT MANUFACTURER'S INSTALLATION RECOMMENDATIONS. NOTE: THE GC SHALL TRAPEZE THE THREADED ROD AS REQUIRED TO AVOID CONFLICTS WITH EXISTING STRUCTURAL ELEMENTS, DUCTWORK, OR WITH THE WORK OF ANY OTHER TRADE.
5. NEW STEEL ANGLE SUPPORT FOR ROOFTOP EQUIPMENT CURBS - SEE SHEET A142, THE STRUCTURAL DRAWINGS, AND COORDINATE LOCATIONS WITH EQUIPMENT MANUFACTURER'S INSTALLATION RECOMMENDATIONS, AND WITH THE CURBS SUPPLIED BY THE EQUIPMENT MANUFACTURER. G.C. SHALL FIELD VERIFY.
6. NEW STEEL ANGLE SUPPORTS FOR CONDENSER STANDS. COORDINATE WITH THE STRUCTURAL DRAWINGS, MANUFACTURER'S DRAWINGS, AND THE N.O.A. ON SHEET A820



NOTE: THE HOOD SUPPORT LOCATIONS ARE BASED ON THE LATEST INFORMATION PROVIDED BY THE MANUFACTURER. GC SHALL FIELD VERIFY ALL SUPPORT POINTS WITH THE ACTUAL HOOD.

HOOD SUPPORT PLAN

1/2" = 1'-0"

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Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
ROOF FRAMING PLAN

A141

GC SHALL PURCHASE AND INSTALL Z-BRACKETS AS REQUIRED BY THE ENGINEERED DRAWINGS

CARRIER AND BRYANT CHASSIS SIZE 3 & 4 MODELS:

Chassis Size 3 & 4										
Carrier 48FC / 48FE & 50FC / 50FE		Carrier 50FCQ & 50FEQ		Carrier 48GC & 48GE & 50GC / 50GE		Carrier 50GQD & 50GEQ		Carrier 48LC / 48LE & 50LC / 50LE	
Bryant 580K / 580L & 559K / 559L		Bryant 547K & 547L		Bryant 581K / 581L & 551K / 551L		Bryant 549K & 549L			
Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons
08	7.5	08	7.5	07	6	09	6	07	6
09	8.5	09	8.5	08	7.5	08	7.5		
12	10	12	10	09	8.5	09	8.5		
14	12			12	10				

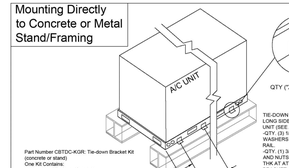
Each package unit air conditioner listed above conforms to the Florida Building Code, 8th Edition (2023) requirements for installation including High Velocity Hurricane Zone (HVHZ), Risk Category III (V = 186 MPH), exposure category "D", and installation on a roof height of up to and including 60 feet above grade (i.e., 65' to mid-height of unit). Worst case is -09 (Chassis 4a) 88-1/8" x 59-1/2" x 49-3/8" tall.

ALLOWABLE DESIGN PRESSURES (ASD) FOR THE UNIT ITSELF:

Design Lateral Pressure = 114.1 lb/ft^2
Design Uplift Pressure = 90.1 lb/ft^2

Unit itself will withstand wind loads imposed by 114.1 PSF lateral and 90.1 PSF uplift design pressures provided the 16 gage galvanized base rails are properly fastened to a suitable slab, curb (18 Ga min.), curb adapter (18 Ga min.), or other suitable mounting arrangement and all factory supplied assembly fasteners are in place. See Drawing 24007-2A for Miami-Dade BORA 2018 equipment analysis details if unit is installed in Miami-Dade.

Mounting Directly to Concrete or Metal Stand/Framing



Part Number CBTDC-KGR: Tie-down Bracket Kit (concrete or stand)
One Kit Contains:
Qty. (2) - Tie-Down Brackets
Qty. (6) - 1/4" Dia. x 3/4" long, self-drilling screws (SDS) with washers
Qty. (2) - 3/8" Dia. x 2-1/4" long, Simpson Wedge-All concrete anchors
Qty. (1) - Instructions
Qty. (2) - 3/8" Dia. x 1" Bolts, washers, and nuts (steel)

Qty. ("X") Kits required per unit

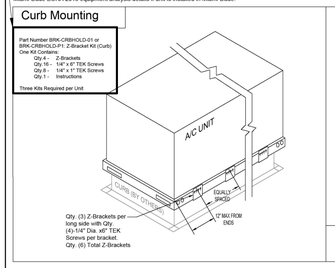
ANCHOR TABLE:

Anchor Specs	X, # ANCHORS PER LONG SIDE	Y, # TOTAL ANCHORS
KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 2.25" LONG WITH MIN EMBED OF 1.75" IN 2500PSI MIN. CONCRETE	8	16
KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 2.25" LONG WITH MIN EMBED OF 1.75" IN 2500PSI MIN. CONCRETE. **FOR GROUND LEVEL MOUNT ONLY**	3	6
KIT ANCHOR, 3/8" DIA. BOLT SAE GRS MIN., WASHERS, AND NUT	4	8
NON- KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 3.5" LONG WITH MIN EMBED OF 2.625" IN 2500PSI MIN. CONCRETE	4	8

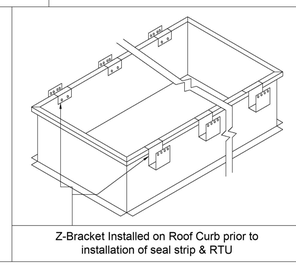
Curb Mounting

Part Number BRK-CRBHOLD-01 or BRK-CRBHOLD-PT: Z-Bracket Kit (Curb)
One Kit Contains:
Qty 4 - Z-Brackets
Qty 16 - 1/4" x 6" TEK Screws
Qty 8 - 1/4" x 1" TEK Screws
Qty 1 - Instructions

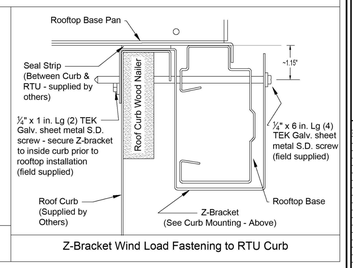
Three Kits Required per Unit



Qty. (3) Z-Brackets per long side with Qty. (4)-1/4" Dia. x6" TEK Screws per bracket. Qty. (6) Total Z-Brackets



Z-Bracket Installed on Roof Curb prior to installation of seal strip & RTU



Z-Bracket Wind Load Fastening to RTU Curb

Tie-down Calculations (Direction A is normal to length of unit):

Wind Direction A, equipment (excluding curb)

H	49.375 in	f_{z-lb} ft*(GC$_p$-GC$_{pi}$)*	1.9 Eq 29.4-2
L	94.125 in	A_f	30.2 SQ FT
W	59.5 in		
Weight	907 lbs	f_{y-lb} ft*GC$_p$ ft	196.2 lb/sq ft
		f min (lb/sq ft)	16 ASCE7, section 29.8
		f_{y-lb} ft*GC$_p$ ft*A$_f$ =	5746 lb
V_{ult}	186 mph	f_{y-lb} ft*GC$_p$ ft*A$_f$ =	
V_{ASD}	144.5 mph	GC$_p$ =	1.5 Eq 29.4-3
Risk Category	III	A_f =	36.4 SQ FT
Exposure	D		
K_d =	1.33 Table 26.6-1	f_{y-lb} ft*GC$_p$ ft	150.2 lb/sq ft
K_e ff	0.85 ASCE7, table 26.6-1	f min (lb/sq ft)	16 ASCE7, section 29.8
K_z ft =	1	f_{y-lb} ft*GC$_p$ ft*A$_f$ =	5468.7 lb

$q_z = 0.00256K_zK_{zt}K_dV^2$ = 100.12 lb/ft^2
q_h = 100.1 psf

Calculation Results
Totals at Base of Equip:

2-clips:
screws on upwind side: 12
screws per short side: 0

0.69in^0.5D: 25.7 (3 sqft/ft²)/screw

1/4" SWL w 3Bpi steel against head and nut against: 153 / 191

ANCHOR ALLOWABLE TENSION: 153 / 191
ANCHOR ALLOWABLE SHEAR: 351 / 191

Anchor Installed horizontally (uplift loads hardware in shear)
Anchor Combined loading value: 0.58 must be less than or = to 1
Anchor is OK

Totals at Base of clip:

Concrete anchor:
anchors on upwind side: 8
anchors per short side: 0

0.69in^0.5D: 359 (8 sqft/ft²)/anchor

Shear at base
anchors: 10
215.5 (8 shear)/anchor

Simpson Wedge-all Anchor, 2500psi
3/8" anchors, 1.75" embed
ANCHOR ALLOWABLE TENSION: 472.5 LBS
ANCHOR ALLOWABLE SHEAR: 570 LBS

Anchor installed vertically (uplift loads hardware in tension)
Anchor Combined loading value: 0.83 must be less than or = to 1
Anchor is OK

Totals at Base of clip:

Concrete anchor:
anchors on upwind side: 4
anchors per short side: 0

0.69in^0.5D: 718 (8 sqft/ft²)/anchor

Shear at base
anchors: 8
431.1 (8 shear)/anchor

Simpson Wedge-all Anchor, 2500 psi
3/8" anchors, 2.625" embed
ANCHOR ALLOWABLE TENSION: 970 LBS
ANCHOR ALLOWABLE SHEAR: 970 LBS

Anchor installed vertically (uplift loads hardware in tension)
Anchor Combined loading value: 0.60 must be less than or = to 1
Anchor is OK

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REVISION HISTORY:

NO.	DATE	DESCRIPTION

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PROJECT NAME: CARRIER AND BRYANT ROOFTOP UNITS - CHASSIS 3&4

DRAWING TITLE: MODEL LIST AND TIE-DOWN DETAILS

DATE	PROJECT
4/07/2024	
DRAWING SCALE	SHEET #
NTS	24007-2
DRAWING NUMBER	1 OF 1
REV.	0
REV. NO.	0

For Access Panel (48TM500388):
45.33" x 42.95" draw formed 22 ga. panel anchored with2 screws through face each vertical side, 3 screws through face at bottom edge into 16 ga. base rail, and top edge fits inside top panel (trapped).

A= 45.33(42.95)/12)/12 = 13.02 ft^2
Load= 13.52(114.1) = 1543 lbs
Screw Load= 1543/2(3) = 128.6 lbs
Safety Factor= 684/128.6 = 5.3
OK for Components and Cladding

For Filter Panel (50DK500970):
If panel does not have factory hinged door (min. qty 2 hinges) and latch (min. qty 3 latches) option, the BRK-PANEL-KIT Panel Fastener Kit must be installed per detail below.

Remaining panels are trivial cases of the above due to greater fastener quantity or having openings that limit negative pressure effects.

For connection of upper frame and panels to base rails:
12 screws each long side fasten frame columns and panels to the long base rails. 6 screws fasten inside panel to short base rail at air handler end. Opposite end is louvered and has a large opening in the top and mesh over cooling coils. Screws fasten 22 ga. (min) panels and columns to 16 ga baserails.

Lateral Wind Area =A_f = 87.32(45.63)/12)/12 = 27.67ft^2
Lateral Design Load = 27.67(114.1) = 3157 lbs
Overturning Moment = 3157(45.63)/2 = 72027 in-lb

Uplift Wind Area =A_f = 87.32(57.68)/12)/12 = 34.98 ft^2
Uplift Design Load = 34.98(90.1)= 3152 lbs
Uplift Moment= 3152(57.68)/2 = 90894 in-lb

ScrewLoad = (72027 + 90894)/12(57.68) = 131.3 lbs (shear)
Safety Factor = 684/131.3 = 5.2
OK

With the necessary modifications shown on this drawing, the unit itself will withstand wind loads imposed by 114.1 psf lateral and 90.1 psf uplift design pressures provided the 16 gage galvanized base rails are properly fastened to a suitable slab, stand, curb, curb adapter, or other suitable mounting arrangement and all factory supplied assembly fasteners are in place. Unit has not been analyzed with hood(s) or other accessories.

For connection of unit base rails to properly designed curb, metal stand, or structural concrete (by others):

See Drawing 24007-2 for calculation of loads and tie-down details.

Rational Analysis: Worst case is -09 (Chassis 4a) 88-1/8" x 59-1/2" x 49-3/8" tall
Design Pressures complying to FBC Building 1620.6 (HVHZ):
V = 186 mph (Risk Cat. III), For Exp.Cat. "D" and Z = 65 ft, K_z = 1.33, K_{zt} = 1.0, K_d = 0.85
$q_z = .00256K_zK_{zt}K_dV^2$ = 100.12 lb/ft^2
Using 1620.6,
Lateral Wind Pressure= $W_f = q_z(1.9)$ = 190.2 lb/ft^2
Uplift Wind Pressure= $U_f = q_z(1.5)$ = 150.2 lb/ft^2

Factoring in the required Load Combination factor (0.6):
Design Lateral Pressure (ASD) = $W_f(0.6)$ = 114.1 lb/ft^2
Design Uplift Pressure (ASD) = $U_f(0.6)$ = 90.1 lb/ft^2

Positive pressure acts toward the surface being considered and negative pressure acts away, only the negative pressure will remove a panel from the machine.

22 ga. panels and columns are fastened together and to 16 ga. base rails using #10 serrated washer head self piercing screws having 0.425" head diameter, 0.19" nominal diameter, and 0.14" minor diameter. These screws are expected to exhibit the following properties based upon ICC-ES Report ESR-2196:

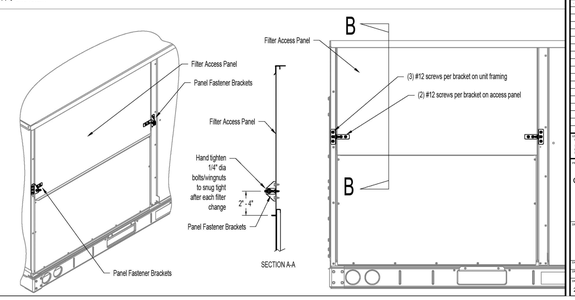
Pullout Strength in 22 ga. = 306 lbs (ultimate)	Pullout Strength in 20 ga. = 351 lbs (ultimate)
Pullover Strength of 22 ga. = 828 lbs (ultimate)	Pullover Strength of 20 ga. = 993 lbs (ultimate)
Shear Strength in 22 ga. = 684 lbs (ultimate)	Shear Strength in 20 ga. = 684 lbs (ultimate)
Pullout Strength in 18 ga. = 450 lbs (ultimate)	
Shear Strength in 16 ga. = 927 lbs (ultimate)	

For Top Panel (50HJ501228):
87.32" x 57.88" draw formed 20 ga. panel anchored at edges and through top to 18 ga. center panel and 20 ga. control box. Worst case portion is over air handler section since condenser section has two larges hole in the top causing internal and external pressure to be equal. For portion tributary to air handling section:

A= 42.86(57.68)/12)/12 = 17.17 ft^2
Load= 17.17 (90.1) = 1547 lbs
For outside edge (8 screws, all in shear through 20 ga. top panel into 22 ga. indoor panel and corner posts),
Screw load= 1547/2(8) = 96.7 lbs
Safety Factor= 684/96.7 = 7.1
OK
For inside edge (5 screws in tension through 20 ga. top panel into 18 ga. center panel and 4 screws in shear through top panel into 22 ga. center posts),
Screw load= 1547/2(9) = 85.9 lbs
Safety Factor= 684/85.9 = 8.0
OK

For Inside Panel (50DK500689):
57.56" x 45.49" draw formed panel anchored at edges with 6 screws through top panel into face at top, 5 screws each vertical edge through flange perpendicular to face, and 6 screws at one inch above bottom edge through panel into base rail, and 4 screws between supply and return openings into stiffener (50DK502637) fastened to condensing coil.
A= 57.56(45.49)/ 12)/12 = 18.18 ft^2
Load = 18.18(114.1) = 2074 lbs
Screw Load= 2074/2(5+6) = 94.3 lbs
Safety Factor= 306/94.3 = 3.24
OK

GC SHALL PURCHASE AND INSTALL BRK-PANEL-KIT AS REQUIRED



DIGITAL SEAL EMBLEM ON PAGE 1. NOT NEEDED HERE FOR MULTIPAGE PDF FILE.
Samuel Martin, PE, State of Florida, Professional Engineer, License No. 69293.
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REVISION HISTORY:

NO.	DATE	DESCRIPTION

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PROJECT NAME: CARRIER AND BRYANT ROOFTOP UNITS - CHASSIS 3&4

DRAWING TITLE: MIAMI-DADE BORA 2018 EQUIPMENT ANALYSIS DETAILS

DATE	PROJECT
4/07/2024	
DRAWING SCALE	SHEET #
NTS	24007-2A
DRAWING NUMBER	1 OF 1
REV.	0
REV. NO.	0

1 A142 **ATTACHMENT TO CURB - RTU-1 MANUFACTURER'S DOCUMENTATION**
N.T.S.

GC SHALL PURCHASE AND INSTALL Z-BRACKETS AS REQUIRED BY THE ENGINEERED DRAWINGS

CARRIER AND BRYANT CHASSIS 5 MODELS:

Chassis Size 5										
Carrier 48FC / 48FE & 50FC / 50FE		Carrier 50FCQ & 50FEQ		Carrier 48GC & 48GE & 50GC / 50GE		Carrier 50GQD & 50GEQ		Carrier 48LC & 48LE & 50LC / 50LE	
Bryant 580K / 580L & 559K / 559L		Bryant 547K & 547L		Bryant 581K / 581L & 551K / 551L		Bryant 549K & 549L			
Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons	Model Size	Rated Tons
16	15	14	12.5	14	12.5	12	10	09	7.5
								08	8.5
								12	10

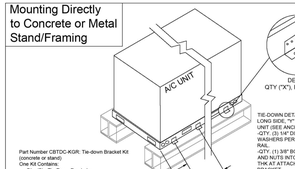
Each package unit air conditioner listed above conforms to the Florida Building Code, 8th Edition (2023) requirements for installation including High Velocity Hurricane Zone (HVHZ), Risk Category III (V = 186 MPH), exposure category "D", and installation on a roof height of up to and including 60 feet above grade (i.e., 65' to mid-height of unit). Worst case is -16 (Chassis 5) 115-7/8" x 63-3/8" x 57-3/8" tall.

ALLOWABLE DESIGN PRESSURES (ASD) FOR THE UNIT ITSELF:

Design Lateral Pressure = 114.1 lb/ft^2
Design Uplift Pressure = 90.1 lb/ft^2

Unit itself will withstand wind loads imposed by 114.1 PSF lateral and 90.1 PSF uplift design pressures provided the 16 gage galvanized base rails are properly fastened to a suitable slab, curb (18 Ga min.), curb adapter (18 Ga min.), or other suitable mounting arrangement and all factory supplied assembly fasteners are in place. See Drawing 24007-3A for Miami-Dade BORA 2018 equipment analysis details if unit is installed in Miami-Dade.

Mounting Directly to Concrete or Metal Stand/Framing



Part Number CBTDC-KGR: Tie-down Bracket Kit (concrete or stand)
One Kit Contains:
Qty. (2) - Tie-Down Brackets
Qty. (6) - 1/4" Dia. x 3/4" long, self-drilling screws (SDS) with washers
Qty. (2) - 3/8" Dia. x 2-1/4" long, Simpson Wedge-All concrete anchors
Qty. (1) - Instructions
Qty. (2) - 3/8" Dia. x 1" Bolts, washers, and nuts (steel)

Qty. ("X") Kits required per unit

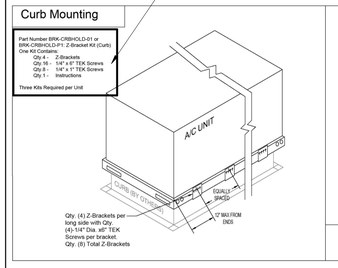
ANCHOR TABLE:

Anchor Specs	X, # ANCHORS PER LONG SIDE	Y, # TOTAL ANCHORS
KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 2.25" LONG WITH MIN EMBED OF 1.75" IN 2500PSI MIN. CONCRETE	11	22
KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 2.25" LONG WITH MIN EMBED OF 1.75" IN 2500PSI MIN. CONCRETE. **FOR GROUND LEVEL MOUNT ONLY**	4	8
KIT ANCHOR, 3/8" DIA. BOLT SAE GRS MIN., WASHERS, AND NUT	5	10
NON- KIT ANCHOR, 3/8" DIA. SIMPSON WEDGE-ALL ANCHOR, 3.5" LONG WITH MIN EMBED OF 2.625" IN 2500PSI MIN. CONCRETE	6	12

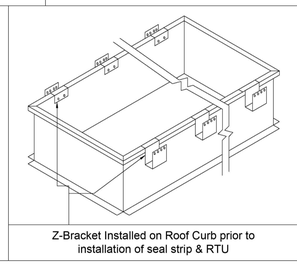
Curb Mounting

Part Number BRK-CRBHOLD-01 or BRK-CRBHOLD-PT: Z-Bracket Kit (Curb)
One Kit Contains:
Qty 4 - Z-Brackets
Qty 16 - 1/4" x 6" TEK Screws
Qty 8 - 1/4" x 1" TEK Screws
Qty 1 - Instructions

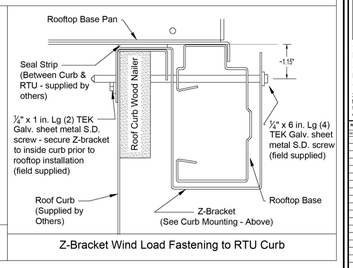
Three Kits Required per Unit



Qty. (4) Z-Brackets per long side with Qty. (4)-1/4" Dia. x6" TEK Screws per bracket. Qty. (8) Total Z-Brackets



Z-Bracket Installed on Roof Curb prior to installation of seal strip & RTU



Z-Bracket Wind Load Fastening to RTU Curb

Tie-down Calculations (Direction A is normal to length of unit):

Wind Direction A, equipment (excluding curb)

H	57.375 in	f_{z-lb} ft*(GC$_p$-GC$_{pi}$)*	1.9 Eq 29.4-2
L	101.875 in	A_f	40.2 SQ FT
W	63.375 in		
Weight	1305 lbs	f_{y-lb} ft*GC$_p$ ft	196.2 lb/sq ft
		f min (lb/sq ft)	16 ASCE7, section 29.8
		f_{y-lb} ft*GC$_p$ ft*A$_f$ =	8781 lb
V_{ult}	186 mph	f_{y-lb} ft*GC$_p$ ft*A$_f$ =	
V_{ASD}	144.5 mph	GC$_p$ =	1.5 Eq 29.4-3
Risk Category	III	A_f =	51.0 SQ FT
Exposure	D		
K_d =	1.33 Table 26.6-1	f_{y-lb} ft*GC$_p$ ft	150.2 lb/sq ft
K_e ff	0.85 ASCE7, table 26.6-1	f min (lb/sq ft)	16 ASCE7, section 29.8
K_z ft =	1	f_{y-lb} ft*GC$_p$ ft*A$_f$ =	7659.3 lb

$q_z = 0.00256K_zK_{zt}K_dV^2$ = 100.12 lb/ft^2
q_h = 100.1 psf

Calculation Results
Totals at Base of Equip:

2-clips:
screws on upwind side: 16
screws per short side: 0

0.69in^0.5D: 281.6 (3 sqft/ft²)/screw

1/4" SWL w 3Bpi steel against head and nut against: 153 / 191

ANCHOR ALLOWABLE TENSION: 153 / 191
ANCHOR ALLOWABLE SHEAR: 351 / 191

Anchor Installed horizontally (uplift loads hardware in shear)
Anchor Combined loading value: 0.73 must be less than or = to 1
Anchor is OK

Totals at Base of clip into concrete:

Concrete anchor:
anchors on upwind side: 11
anchors per short side: 0

0.69in^0.5D: 388 (3 sqft/ft²)/anchor

Shear at base
anchors: 22
239.1 (3 shear)/anchor

Simpson Wedge-all Anchor, 2500psi
3/8" anchors, 1.75" embed
ANCHOR ALLOWABLE TENSION: 472.5 LBS
ANCHOR ALLOWABLE SHEAR: 570 LBS

Anchor installed vertically (uplift loads hardware in tension)
Anchor Combined loading value: 0.95 must be less than or = to 1
Anchor is OK

Totals at Base of clip into concrete:

Concrete anchor:
anchors on upwind side: 6
anchors per short side: 0

0.69in^0.5D: 711 (3 sqft/ft²)/anchor

Shear at base
anchors: 12
409.1 (3 shear)/anchor

Simpson Wedge-all Anchor, 2500 psi
3/8" anchors, 2.625" embed
ANCHOR ALLOWABLE TENSION: 970 LBS
ANCHOR ALLOWABLE SHEAR: 1293 LBS

Anchor installed vertically (uplift loads hardware in tension)
Anchor Combined loading value: 0.60 must be less than or = to 1
Anchor is OK

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REVISION HISTORY:

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PROJECT NAME: CARRIER AND BRYANT ROOFTOP UNITS - CHASSIS 5

DRAWING TITLE: MODEL LIST AND TIE-DOWN DETAILS

DATE	PROJECT
4/07/2024	
DRAWING SCALE	SHEET #
NTS	24007-3
DRAWING NUMBER	1 OF 1
REV.	0
REV. NO.	0

Rational Analysis: Worst case is -16 (Chassis 5) 115-7/8" x 63-3/8" x 57-3/8" tall.
Design Pressures complying to FBC Building 1620.6 (HVHZ):
V = 186 mph (Risk Cat. III), For Exp.Cat."D" and Z = 65 ft, K_z = 1.33, K_{zt} = 1.0, K_d = 0.85
$q_z = .00256K_zK_{zt}K_dV^2$ = 100.12 lb/ft^2
Using 1620.6,
Lateral Wind Pressure= $W_f = q_z(1.9)$ = 190.2 lb/ft^2
Uplift Wind Pressure= $U_f = q_z(1.5)$ = 150.2 lb/ft^2

Factoring in the required Load Combination factor (0.6):
Design Lateral Pressure (ASD) = $W_f(0.6)$ = 114.1 lb/ft^2
Design Uplift Pressure (ASD) = $U_f(0.6)$ = 90.1 lb/ft^2

Positive pressure acts toward the surface being considered and negative pressure acts away, only the negative pressure will remove a panel from the machine.

22, 20, and 18 ga. panels and columns are fastened together and to 16 ga. base rails using #10 serrated washer head self tapping screws having a 0.425" head diameter, 0.19" nominal diameter, and 0.14 minor diameter. These screws are expected to exhibit the following properties based upon ICC-ES Report ESR-2196:

Pullout Strength in 22 ga. = 306 lbs (ultimate)	Pullout Strength in 20 ga. = 351 lbs (ultimate)
Pullover Strength of 22 ga. = 828 lbs (ultimate)	Pullover Strength of 20 ga. = 993 lbs (ultimate)
Shear Strength in 22 ga. = 684 lbs (ultimate)	Shear Strength in 20 ga. = 684 lbs (ultimate)
Pullout Strength in 18 ga. = 450 lbs (ultimate)	
Shear Strength in 16 ga. = 927 lbs (ultimate)	

For Top Panel Assembly (50TM500066 and 50TM500065 joined using 50TM500359 and 12 screws):
114.35" x 61.61" draw formed 20 ga. assembly anchored at edges and through top to 16 ga. center panel and 18 ga. control box. Worst case portion is over air handler section since condenser section has three large holes in the top causing internal and external pressure to be equal. For portion tributary to air handling section:
A = 61.61(55.41)/12)/12 = 23.70 ft^2
Load = 23.70 (90.1) = 2135.37 lbs
For outside edge (9 screws, all in shear through 20 ga. top panel into 22 ga. indoor panel and corner posts), Screw Load = 2135.37/2(9) = 118.63 lbs
Safety Factor = 684/118.63 = 5.77
OK
For inside edge (6 screws in tension through 20 ga. top panel into 16 ga. center panel and 4 screws in shear through top panel into 22 ga. center posts),
Screw Load = 2135.37/2(12) = 88.97 lbs
Safety Factor = 684/88.97 = 7.69
OK

For Inside Panel (50TM500063):
61.5" x 53.42" draw formed 22 ga. panel anchored at edges with 7 screws through top panel into face at top, 6 screws each vertical edge through flange perpendicular to face, and 6 screws at 7/16 inch above bottom edge through panel into base rail, and 5 screws between supply and return openings into stiffener (50TM500058) fastened to condensing coil.

A = 61.5(53.42)/12)/12 = 22.81 ft^2
Load = 22.81(114.1) = 2602.6 lbs
Screw Load = 2602.6 /2(6+6) = 108.4 lbs
Safety Factor = 450/108.4 = 4.1
OK

GC SHALL PURCHASE AND INSTALL BRK-PANEL-KIT AS REQUIRED

For Access Panels (50TM500062):
53.30" x 25.61" draw formed 22 ga. panel anchored with 3 screws through face each vertical side, 2 screws through face at bottom edge into 16 ga. base rail, and top edge fits inside top panel (trapped).

A = 53.30(25.61)/12)/12) = 9.48 ft^2
Load = 9.48(114.1) = 1081.7 lbs
Screw Load = 1081.7/2(2 + 3) = 108.2 lbs
Safety Factor = 306/58.25 = 2.83
OK for Components and Cladding

For Access Panel Assembly(50TM500086 and 50TM500061):
53.0" x 53.30" assembly of draw formed 20 ga. panels anchored with 3 screws through face each vertical side, 5 screws through face at bottom edge intp 16 ga. base rail, and top edge fits inside top panel (trapped).

A = 53.0(53.30)/12)/12) = 19.62 ft^2
Load = 19.62(114.1) = 2238.6 lbs
Screw Load = 2238.6/2(5+2) = 140.0 lbs
Safety Factor = 306/140.0 = 2.2
OK for Components and Cladding

For Filter Access Panel:
If panel does not have factory hinged door (min. qty 2 hinges) and latch (min. qty 3 latches) option, the BRK-PANEL-KIT Panel Fastener Kit must be installed per detail below.

Remaining panels are trivial cases of the above due to greater fastener quantity or having openings that limit negative pressure effects.

For connection of upper frame and panels to base rails:
16 screws each long side fasten frame posts and 22 ga. (min) panels to the long 16 ga. base rails. 6 screws fasten inside panel to short base rail at air handler end. Opposite end is louvered and has a large opening in the top and mesh over cooling coils.

Lateral Wind Area = A_f = 114.35(53.625)/12)/12 = 42.58 ft^2
Lateral Design Load = 42.58(114.1) = 4858.38 lbs
Overturning Moment = 4858.38(53.625)/2 = 130265.26 in-lb

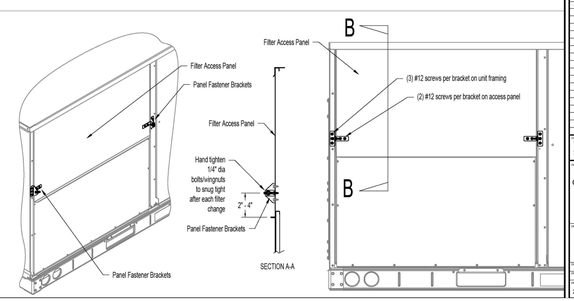
Uplift Wind Area = A_f = 114.35(61.61)/12)/12 = 48.92 ft^2.
Uplift Design Load = 48.92(90.1) = 4407.69 lbs
Uplift Moment = 4407.69(61.61)/2 = 135778.95 in-lb

Screw Load = (130265.26+135778.95)/16(61.61) = 269.89 lbs (shear)
Safety Factor = 927/269.89 = 3.43
OK

With the necessary modifications shown on this drawing, the unit itself will withstand wind loads imposed by 114.1 psf lateral and 90.1 psf uplift design pressures provided the 16 gage galvanized base rails are properly fastened to a suitable slab, stand, curb, curb adapter, or other suitable mounting arrangement and all factory supplied assembly fasteners are in place. Unit has not been analyzed with hood(s) or other accessories.

For connection of unit base rails to properly designed curb, metal stand, or structural concrete (by others):

See Drawing 24007-3 for calculation of loads and tie-down details.



LIGHT FIXTURE SCHEDULE

A1	12	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	41	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	14	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	6	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
E1	5	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	2	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	4	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	10	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
EX-1	6	CEILING	EXISTING CAN LIGHT	SEE SHEET E100
G4	1	FLOOR	PATIO LIGHT POLE	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P3	3	WALL	ACCENT LIGHT - ARTWORK LIGHT FIXTURE	SEE SHEET E100
P5	7	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
T1	3	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-6	1	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

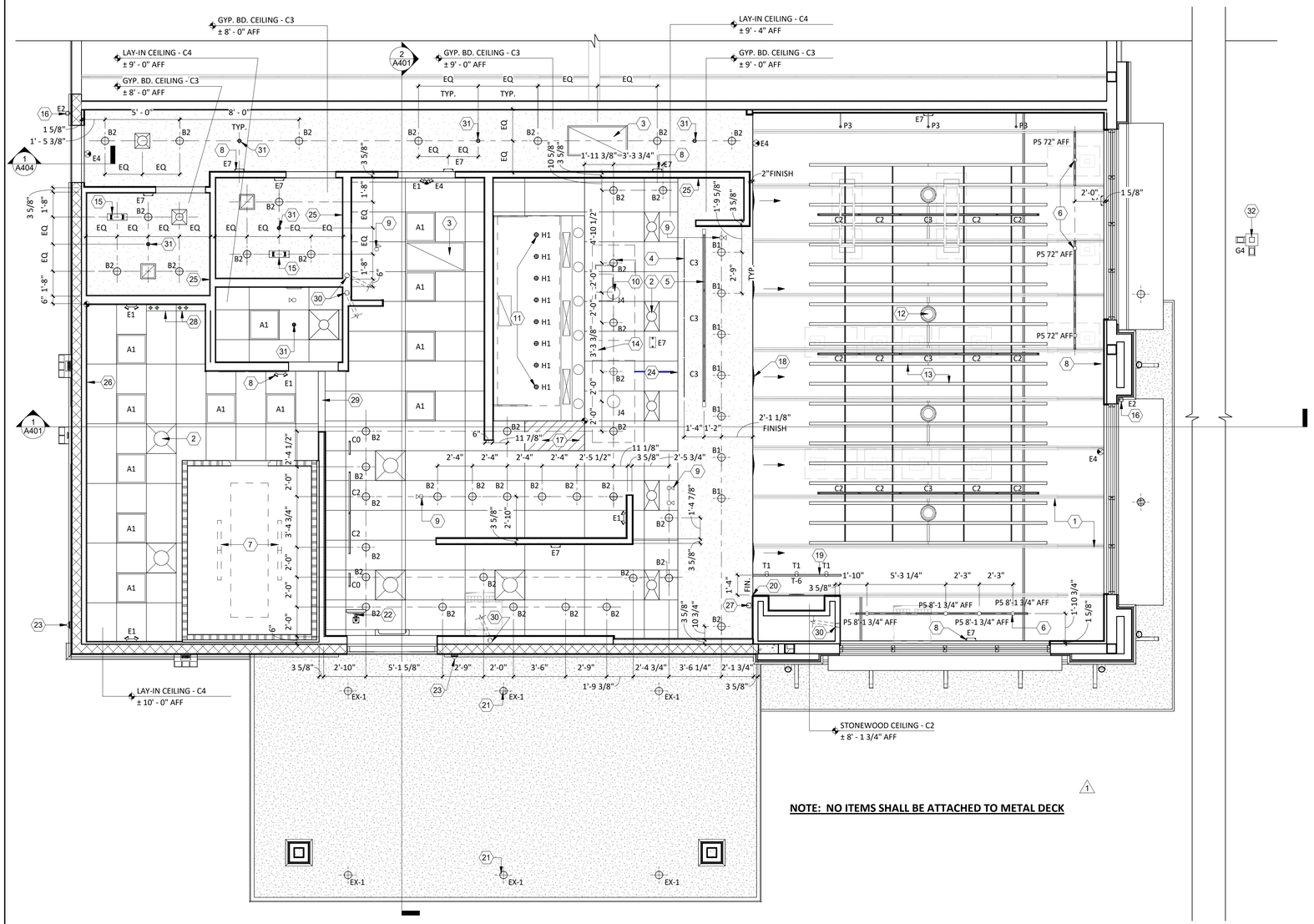
SECURITY MONITOR	1	SSS	SSS	●					
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●					GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●					
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●					INSTALL AT 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

SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS



NOTE: NO ITEMS SHALL BE ATTACHED TO METAL DECK

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

RCP 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 TIGHT TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PVC SHALL BE INSTALLED IN TRUSS SPACE 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 4/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

KEYNOTES

1. EXISTING STEEL JOISTS - PAINT ALL EXPOSED ROOF STRUCTURE IN DINING ROOM "VICTORIAN PEWTER" PER SPECS - SEE STRUCTURAL DRAWINGS
2. SUPPLY AIR DIFFUSER (TYP) - COORDINATE WITH MECHANICAL DRAWINGS
3. RETURN AIR GRILLE - COORDINATE WITH MECHANICAL DRAWINGS
4. MENU BOARD SUPPLIED BY TMB & INSTALLED BY G.C. - SEE DETAILS ON SHEET A210.
5. MENU BOARD LIGHT FIXTURE - SEE DETAILS ON SHEET A210.
6. LOCATE LIGHT FIXTURES AS INDICATED (SEE ALSO SHEETS A202 & A701) AND MOUNT PER DETAILS ON SHEET A211. G.C. SHALL SUPPLY AND INSTALL ALL UNISTRUT AND ELECTRICAL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
7. LIGHTING IS PROVIDED BY COOLER MANUFACTURER. G.C. SHALL PROVIDE ELECTRICAL ROUGH-IN.
8. EMERGENCY LIGHT FIXTURE - TYPICAL - SEE ELECTRICAL DRAWINGS.
9. SECURITY CAMERA - TYPICAL. COORDINATE WITH CHIPOTLE'S SECURITY VENDOR. LOCATE IN CENTER OF LAY-IN CEILING PANELS IN KITCHEN AND OFFICE AREAS.
10. THESE LIGHT FIXTURES TO BE CENTERED OVER THE ISLAND TABLES
11. LIGHT FIXTURES BY HOOD MANUFACTURER - TYPICAL
12. SPEAKER SUSPENDED FROM UNISTRUT (TYP OF 4) - SEE 1/A202 & 7/A210
13. SUSPENDED FELT BAFFLE CEILING SYSTEM - SEE DETAILS ON A202, A210 & THE SPECIFICATIONS
14. EXISTING STEEL COLUMN
15. AIR PURIFIER - SEE ELECTRICAL & MECHANICAL DRAWINGS
16. REMOTE EMERGENCY BATTERY BACKUP LIGHT FIXTURE - COORDINATE WITH ELECTRICAL DRAWINGS
17. CEILING IN HATCHED AREA SHALL REMAIN FREE OF ALL OBSTRUCTIONS FOR HOOD SERVICE ACCESS - GC TO COORDINATE THE WORK OF ALL TRADES
18. SUPPLY AIR TURBO NOZZLES - COORDINATE WITH SHEETS A202, A701, AND THE MECHANICAL DRAWINGS - TYP.
19. CENTER TRACK LIGHTING FIXTURES ON PICKUP SHELVES
20. ALIGN FACE OF SOFFIT SHEATHING WITH FACE OF WALL SHEATHING
21. EXISTING CEILING MOUNTED CAN LIGHT FIXTURES @ PICKUP CANOPY TO BE CIRCUITED FROM CHIPOTLE'S ELECTRICAL PANEL - TYP.
22. MONITOR BY CHIPOTLE'S VENDOR
23. EXTERIOR CAMERA - COORDINATE LOCATION WITH CHIPOTLE'S VENDOR
24. SEE 13/A210 FOR CEILING TRANSITION DETAIL
25. SEE 21/A802 FOR GWB CEILING PERIMETER DETAIL
26. SEE 20/A802 FOR S.A.T. CEILING PERIMETER DETAIL
27. CHIME/STROBE - SEE ELECTRICAL DRAWINGS
28. SEE 9/A210 FOR CEILING DETAIL AT PIPE PENETRATION
29. SEE 12/A210 FOR CEILING TRANSITION DETAIL
30. 4" PVC PIPE STUBBED ABOVE CEILING FOR SODA BUNDLE - TYP - SEE PLUMBING DRAWINGS
31. G.C. SHALL CENTER FIRE SPRINKLER AS SHOWN FOR THIS LOCATION
32. REFER TO SHEET SP101 FOR NEW PATIO LIGHT LOCATION

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UNIT 1000
WESTLAKE, FL 33470

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07.11.24	BID SET
09.26.24	CONSTRUCTION SET

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1	06.24.24	LL REVIEW REVISIONS
2	09.17.24	BA-2

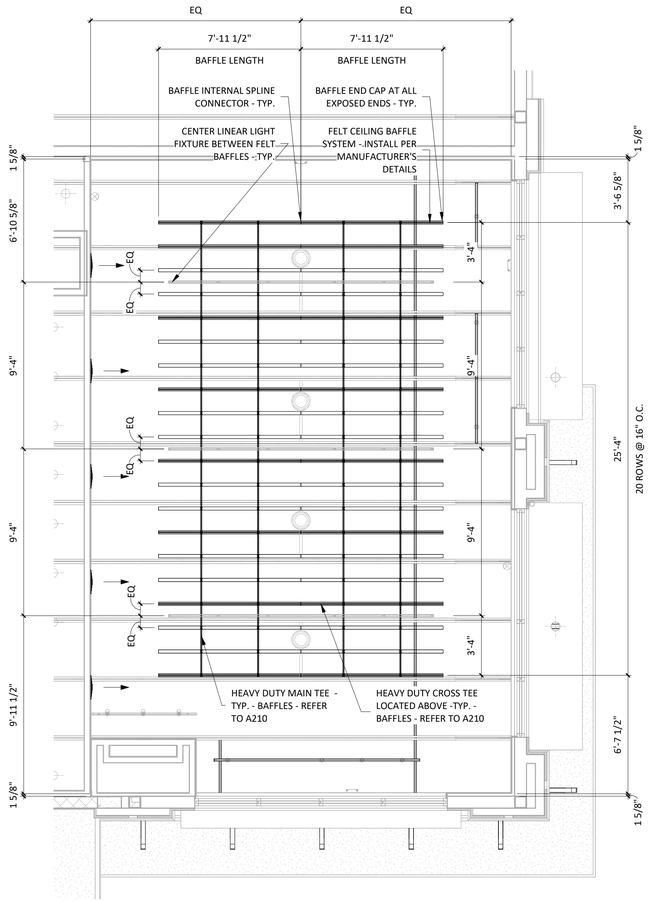
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Checked: SDL

Project No.: CMG2321

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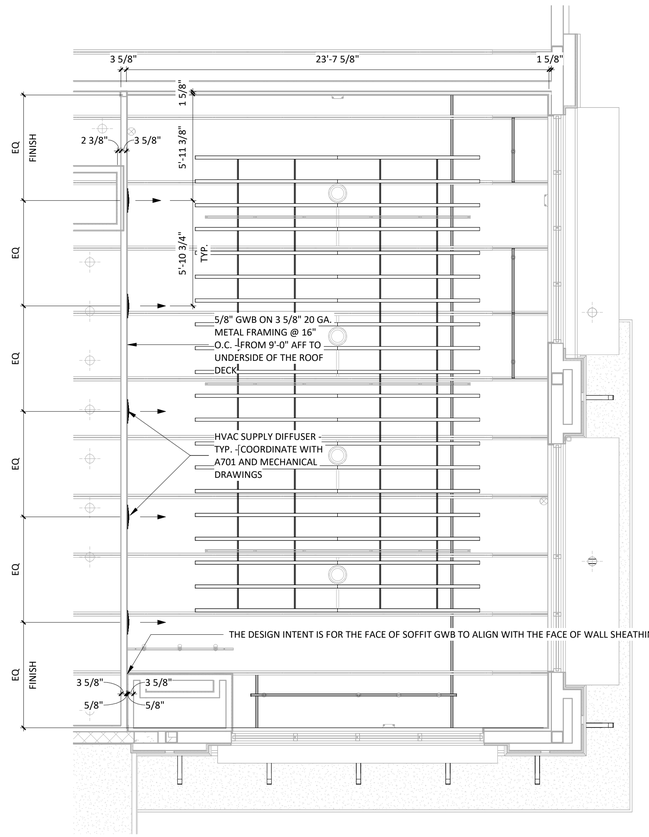
REFLECTED CEILING PLAN

A201



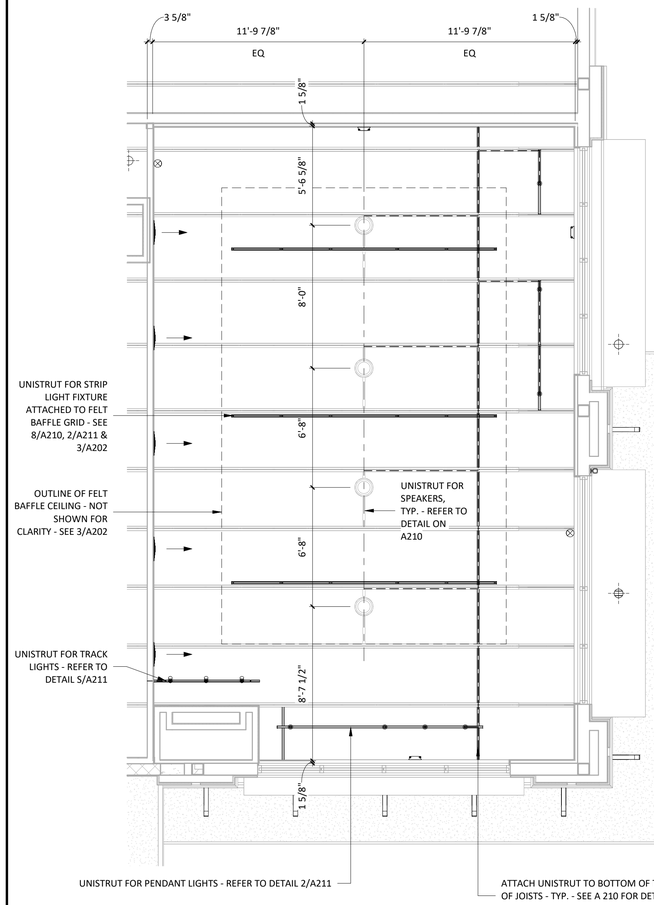
3 A202 **FELT BAFFLE CEILING PLAN**

1/4" = 1'-0"



2 A202 **SOFFIT PLAN**

1/4" = 1'-0"



1 A202 **UNISTRUT PLAN**

1/4" = 1'-0"

REFER TO A201 FOR GENERAL NOTES

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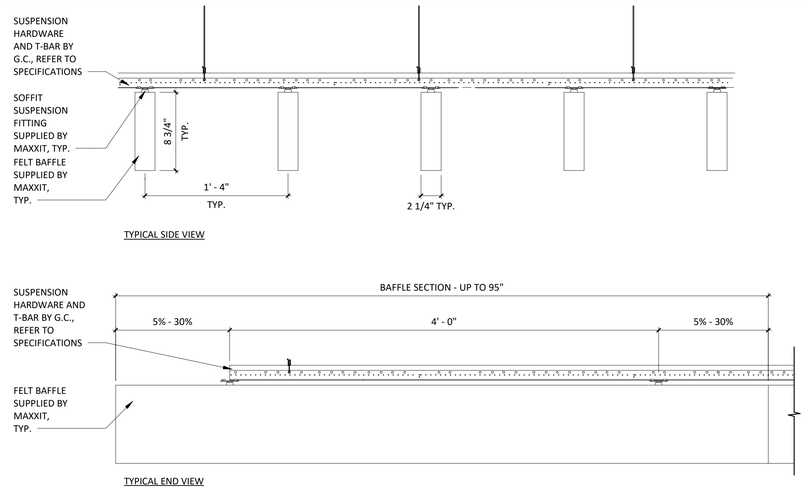
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Drawn:	Checked:
ARL	SDL

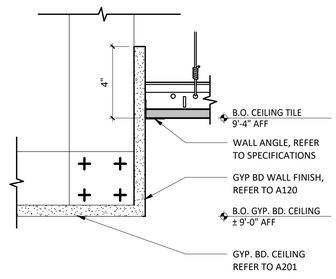
Project No.
CMG2321

Contents:
REFLECTED CEILING & UNISTRUT PLAN

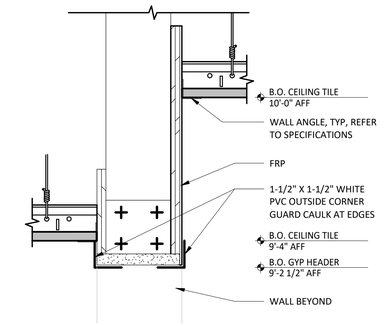
A202



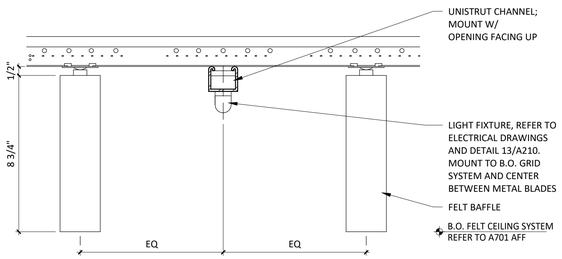
11 A210 **FELT BLADE LAYOUT**
1 1/2" = 1'-0"



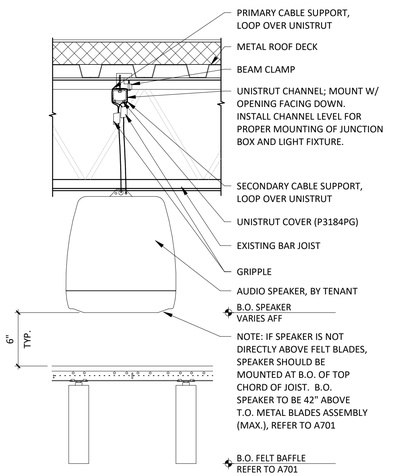
10 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



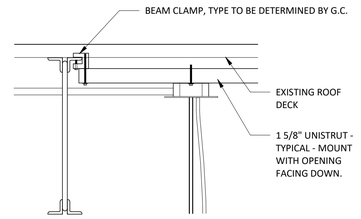
9 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



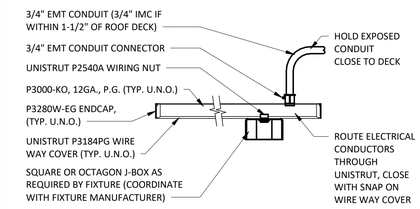
8 A210 **SUSPENDED LIGHT @ FELT BLADE**
3" = 1'-0"



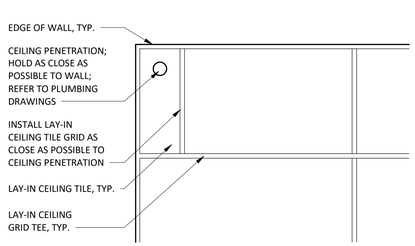
7 A210 **SUSPENDED SPEAKER DETAIL**
1 1/2" = 1'-0"



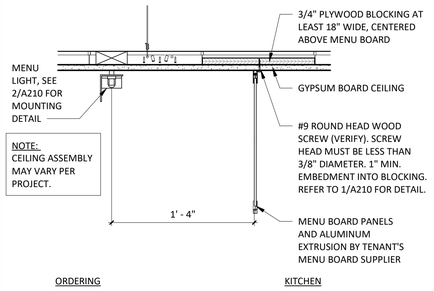
6 A210 **TYP. UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



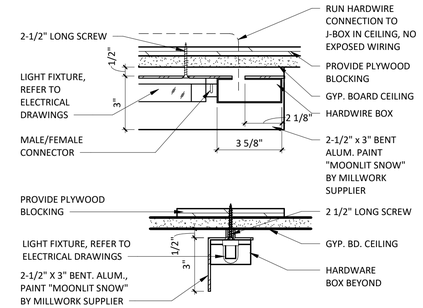
5 A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



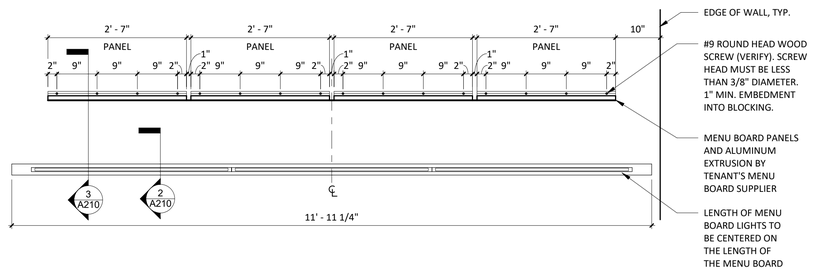
4 A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



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"

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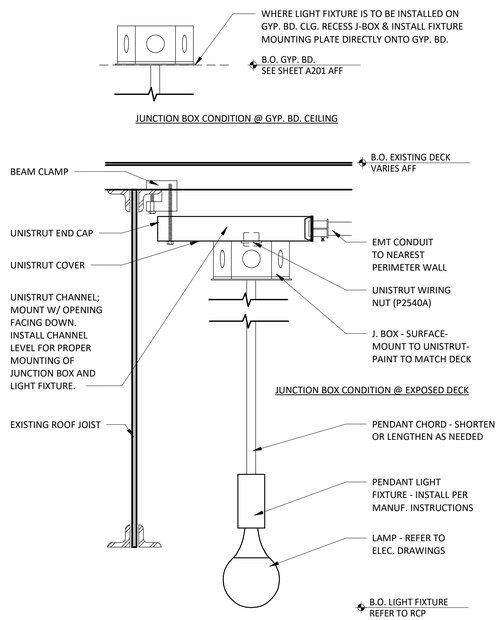
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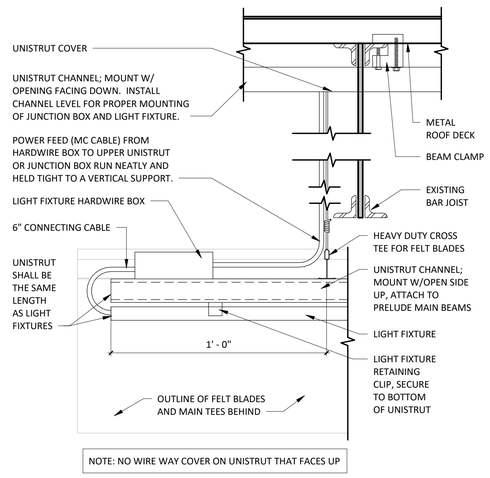
Contents:

CEILING DETAILS

A210

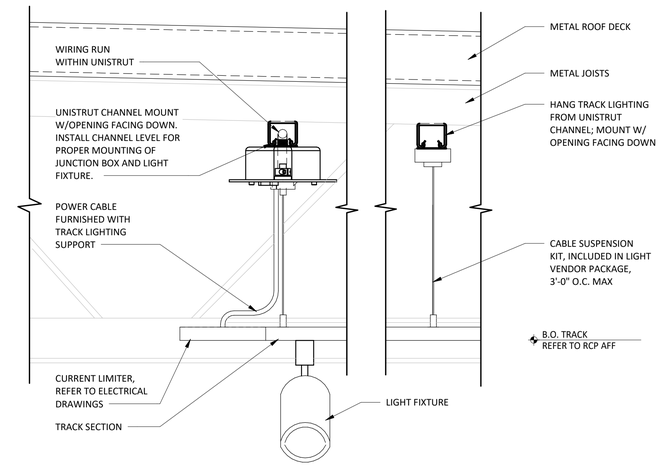


3 A211 **PENDANT LIGHT**
3" = 1'-0"



NOTE: NO WIRE WAY COVER ON UNISTRUT THAT FACES UP

2 A211 **SUSPENDED STRIP LIGHT CONNECTION DETAIL @ FELT BLADE**
3" = 1'-0"



1 A211 **TRACK LIGHT**
3" = 1'-0"

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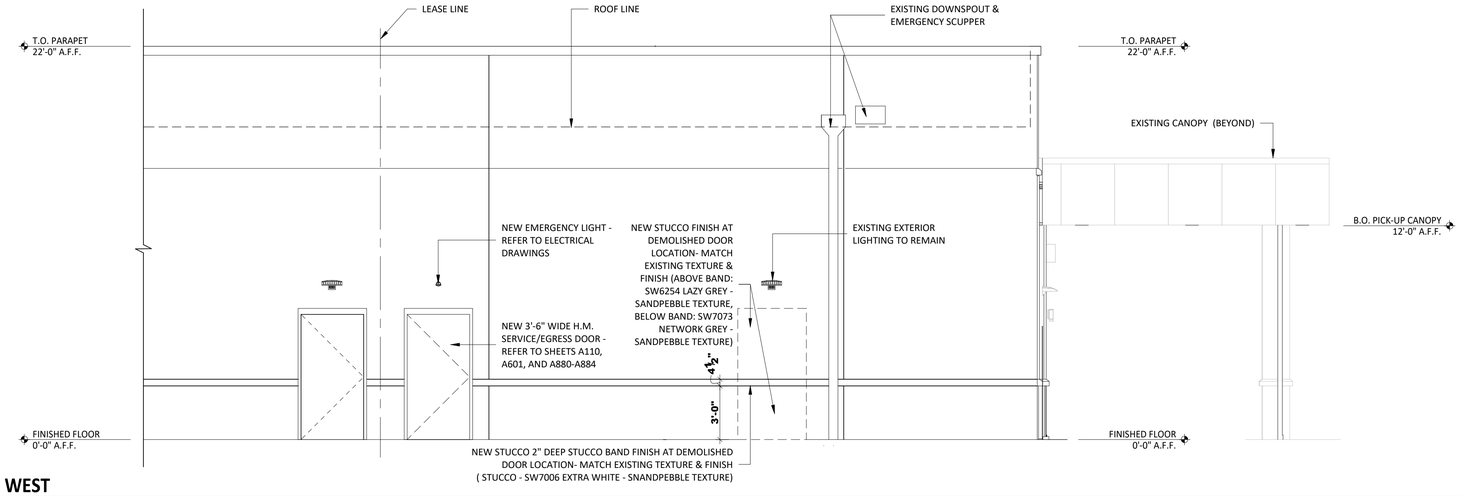
Contents:

LIGHTING DETAILS

A211

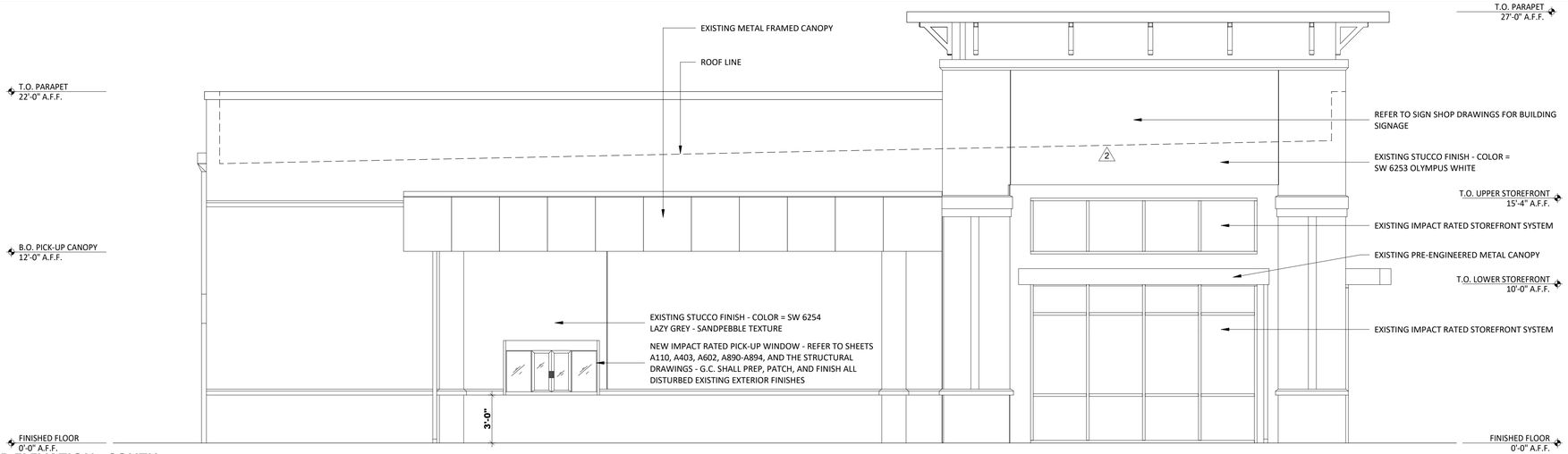
EXT ELEV GENERAL NOTES

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.



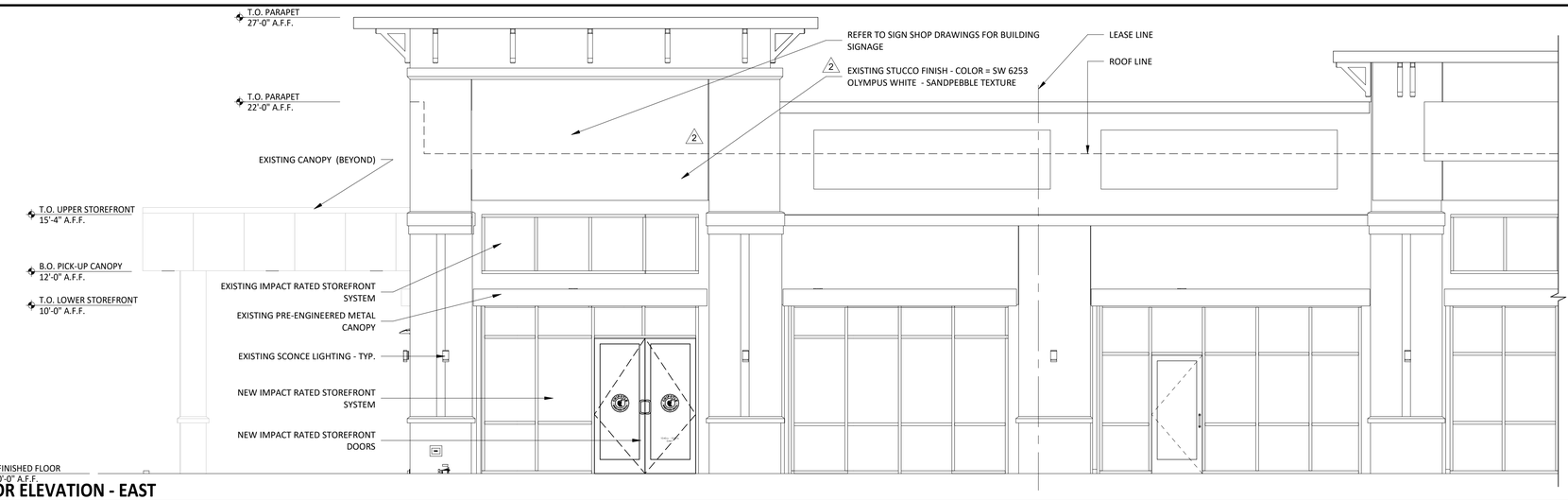
3 / A301 **EXTERIOR ELEVATION - WEST**

1/4" = 1'-0"



2 / A301 **EXTERIOR ELEVATION - SOUTH**

1/4" = 1'-0"



1 / A301 **EXTERIOR ELEVATION - EAST**

1/4" = 1'-0"

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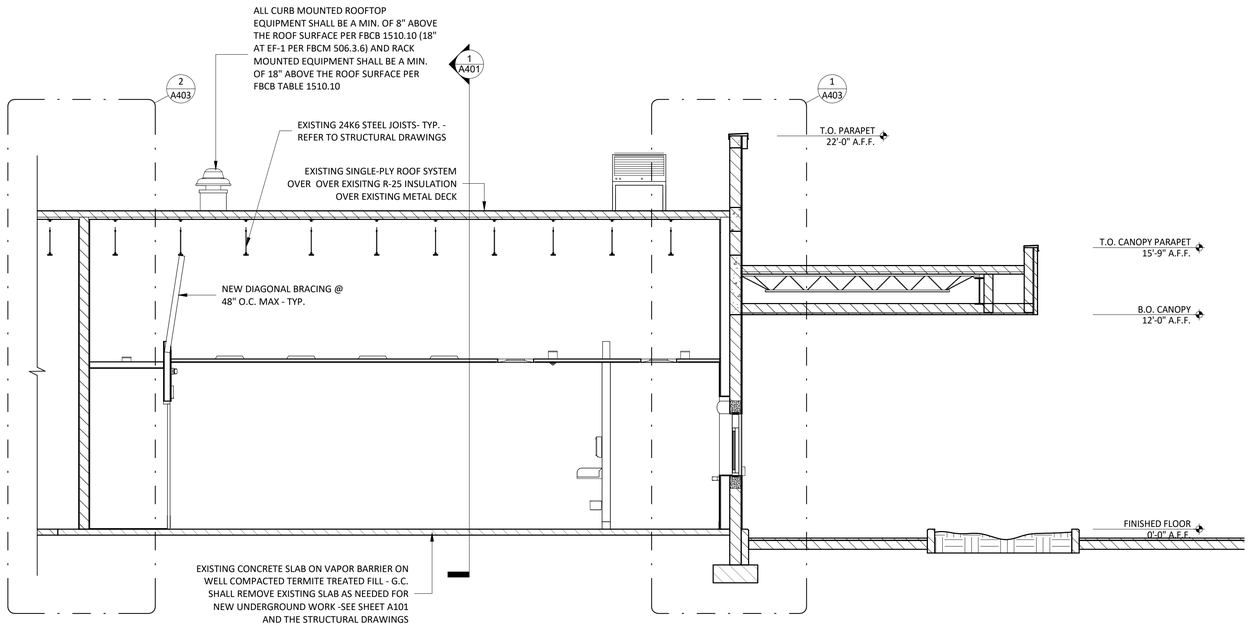
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2	08.05.24	PLAN REVIEW COMMENTS

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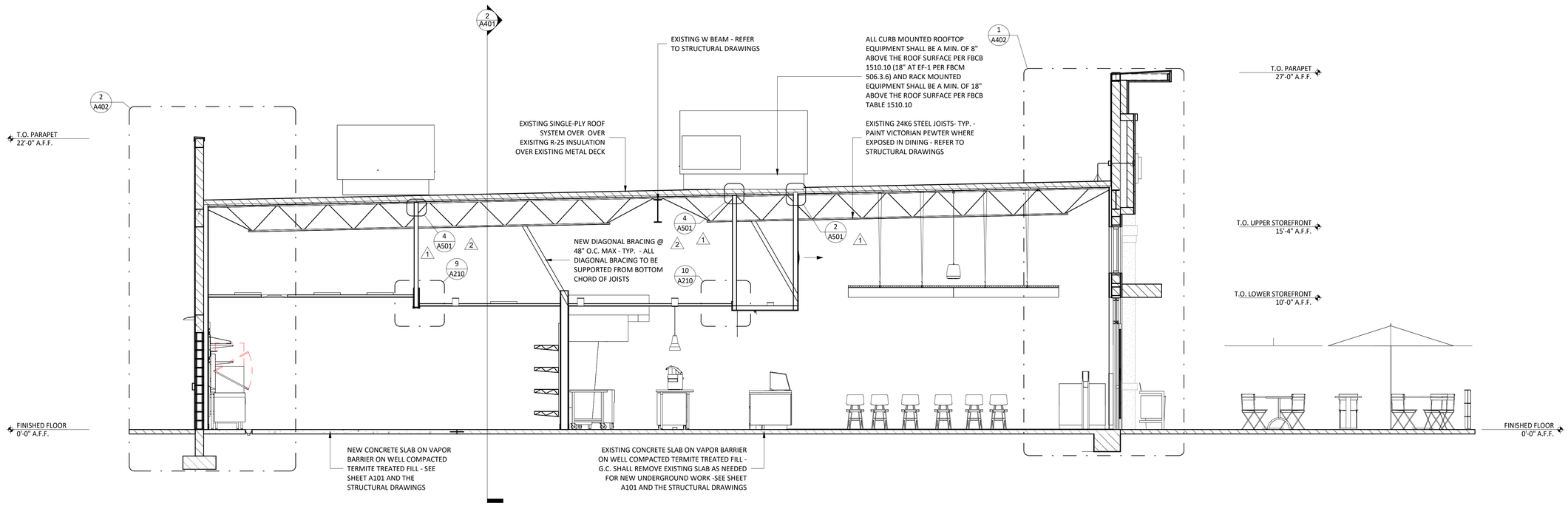
Contents: EXTERIOR ELEVATIONS

A301



2 A401 **BUILDING SECTION - TRANSVERSE**

1/4" = 1'-0"



1 A401 **BUILDING SECTION - LONGITUDINAL**

1/4" = 1'-0"

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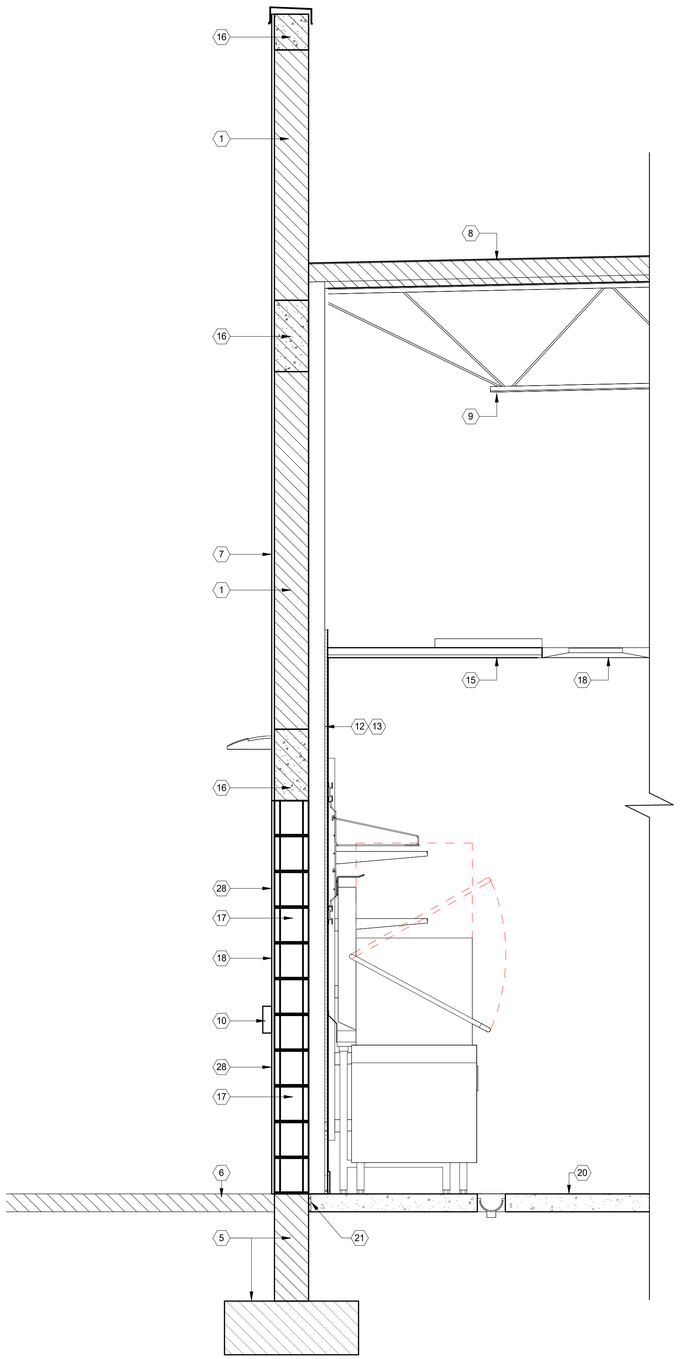
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2	07.15.24	BA-1

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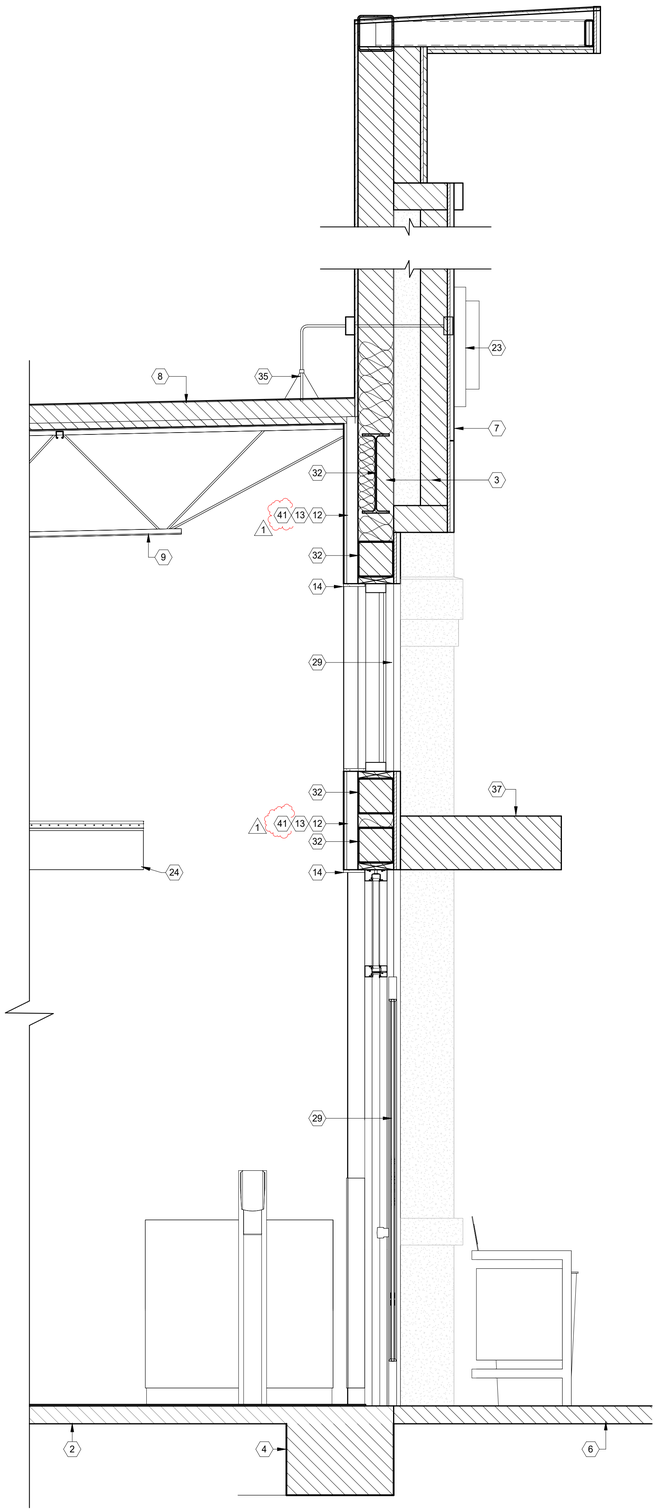
Project No.
CMG2321

Contents:
BUILDING SECTIONS

A401



2 A402 **WALL SECTION @ REAR/WEST EXTERIOR WALL**
3/4" = 1'-0"



1 A402 **WALL SECTION @ FRONT/EAST EXTERIOR WALL**
3/4" = 1'-0"

KEYNOTES

NOTE: EVERY KEYNOTE MAY NOT BE USED ON EACH SECTION

1. EXISTING 8" CMU WALL
2. EXISTING 4" CONCRETE FLOOR SLAB
3. EXISTING METAL FRAMED WALL
4. EXISTING WALL FOOTING
5. EXISTING STEM WALL AND FOOTING
6. EXISTING SIDEWALK - G.C. SHALL FIELD VERIFY THAT THE SIDEWALKS ARE LEVEL AND FLUSH WITH THE TOP OF SLAB AT ALL DOOR LOCATIONS. IMMEDIATELY NOTIFY THE CHIPOTLE CONSTRUCTION MANAGER AND ARCHITECT IF NOT
7. AT ALL EXISTING EXTERIOR FINISHES THE G.C. SHALL PATCH/REPAIR/REPLACE ANY FINISHES THAT ARE DAMAGED OR ARE AFFECTED BY WORK UNDER THIS PERMIT TO MAKE THEM INDISTINGUISHABLE FROM THE ADJACENT SURFACES
8. EXISTING SINGLE-PLY ROOF ON RIGID INSULATION (R-25) ON METAL DECK - G.C. SHALL CONTRACT WITH THE LANDLORD'S ROOFER FOR ANY ROOF REPAIR, FLASHING AND ALL NEW PENETRATIONS, AS WELL AS ANY OTHER NEW ROOFING WORK. SEE COVER SHEET FOR ROOFER'S CONTACT INFORMATION. GC TO FIELD VERIFY ALL EXISTING CONDITIONS.
9. EXISTING STEEL JOIST
10. NEW STUCCO 2" DEEP STUCCO BAND FINISH AT DEMOLISHED DOOR LOCATION- MATCH EXISTING TEXTURE & FINISH (STUCCO - SW7006 EXTRA WHITE - SNANDPEBBLE TEXTURE)
11. EXISTING CONCRETE CURB AND ASPHALT DRIVE AISLE
12. NEW WALL FINISH (SEE A120, A701, A702 & A703) ON NEW SHEATHING (SEE A110 & A501 FOR TYPES) ON NEW 20 GAUGE GALVANIZED METAL FRAMING @ 16" O.C. MAX (SEE A110 FOR SIZES). PROVIDE LATERAL BRACING AT ALL PARTITIONS AS NOTED ON SHEET A501 OR SECURE TO EXISTING WALL WITH CLIP ANGLES AT 1/3 POINTS. EXTEND FRAMING A MIN. 4" ABOVE SCHEDULED CEILINGS (FULL HEIGHT IN THE DINING AREAS AND ALL EXTERIOR WALLS)
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40. NEW 3'-6" WIDE H.M. SERVICE DOOR - COORDINATE WITH STRUCTURAL DRAWINGS AND SHEETS D101-102, A601, AND A880-A884
41. INTERIOR METAL FRAMING SHALL BE 1-5/8" THICK BELOW 10'-0 AFF AND 2-1/2" THICK ABOVE 10'-0" AFF AT EAST EXTERIOR WALL ONLY

1

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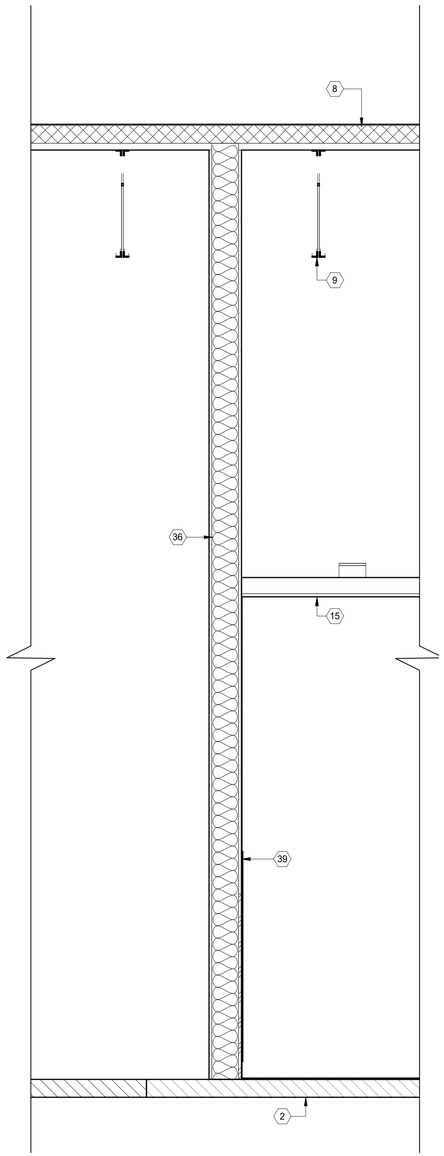
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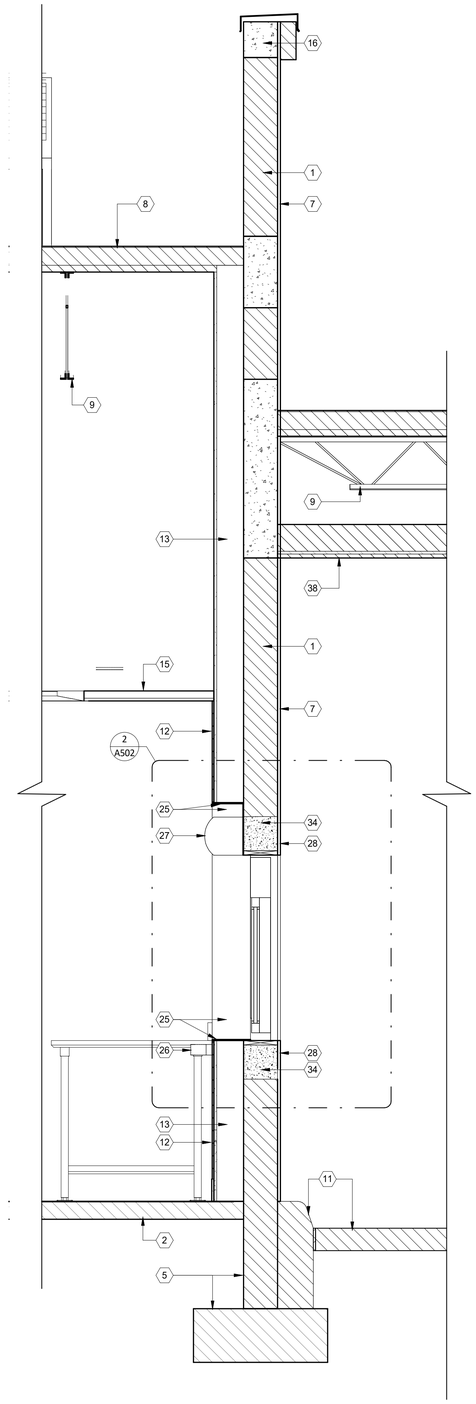
Contents:
WALL SECTIONS

A402



2 A403 **WALL SECTION@ TENANT SEPARATION WALL / NORTH**

3/4" = 1'-0"



1 A403 **WALL SECTION @ PICK-UP WINDOW/SOUTH EXTERIOR WALL**

3/4" = 1'-0"

KEYNOTES

NOTE: EVERY KEYNOTE MAY NOT BE USED ON EACH SECTION

1. EXISTING 8" CMU WALL
2. EXISTING 4" CONCRETE FLOOR SLAB
3. EXISTING METAL FRAMED WALL
4. EXISTING WALL FOOTING
5. EXISTING STEM WALL AND FOOTING
6. EXISTING SIDEWALK - G.C. SHALL FIELD VERIFY THAT THE SIDEWALKS ARE LEVEL AND FLUSH WITH THE TOP OF SLAB AT ALL DOOR LOCATIONS. IMMEDIATELY NOTIFY THE CHIPOTLE CONSTRUCTION MANAGER AND ARCHITECT IF NOT
7. AT ALL EXISTING EXTERIOR FINISHES THE G.C. SHALL PATCH/REPAIR/REPLACE ANY FINISHES THAT ARE DAMAGED OR ARE AFFECTED BY WORK UNDER THIS PERMIT TO MAKE THEM INDISTINGUISHABLE FROM THE ADJACENT SURFACES
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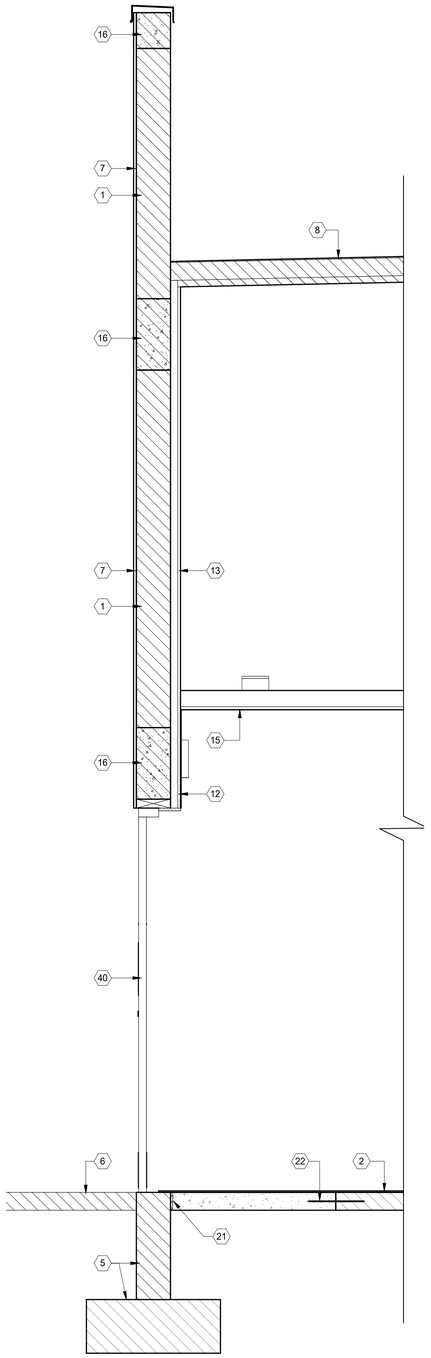
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Contents:

WALL SECTIONS

A403



1 A404 **WALL SECTION - NEW H.M. DOOR**
3/4" = 1'-0"

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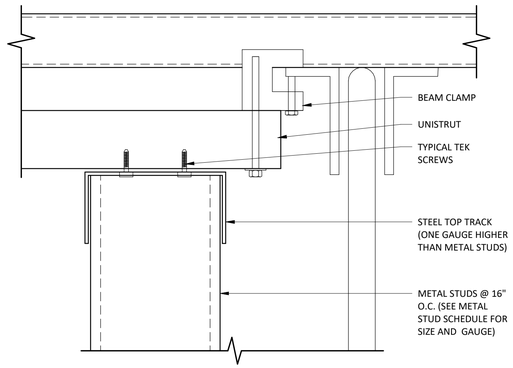
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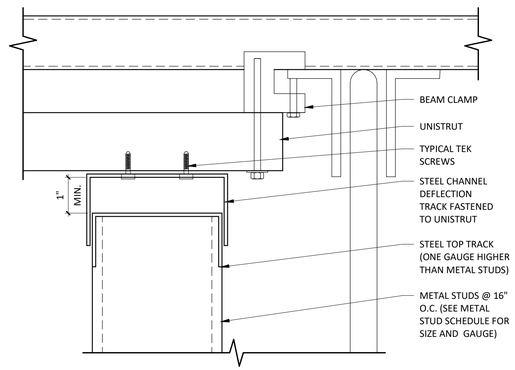
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A404



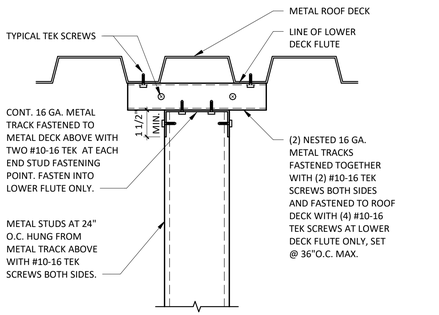
4 / A501 **SOFFIT HANGING DETAIL** 2

6" = 1'-0"



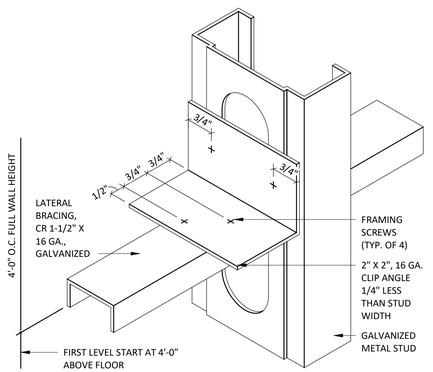
3 / A501 **DEFLECTION TRACK DETAIL @ PARTITION**

6" = 1'-0"



2 / A501 **SOFFIT HANGING DETAIL ABOVE SERVELINE ONLY** 2

3" = 1'-0"



1 / A501 **LATERAL BRACING DETAIL @ PARTITION**

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

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. 1
4. TOP TRACK TO BE ONE GAUGE HIGHER, WITH EXCEPTION AT HANGING SOFFITS , WHERE THEY ARE TO BE 16 GAUGE

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

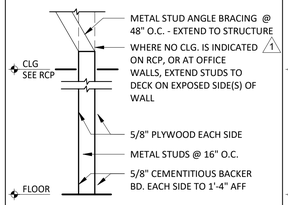
B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

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.

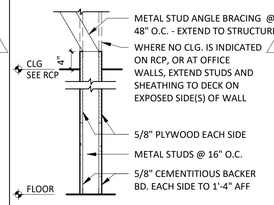
D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

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.

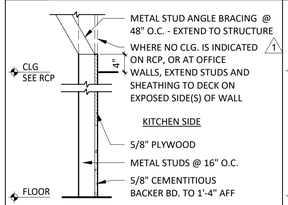
F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.



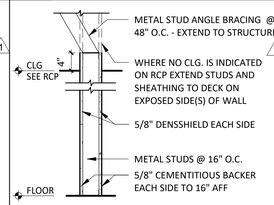
W0 INTERIOR PARTITION



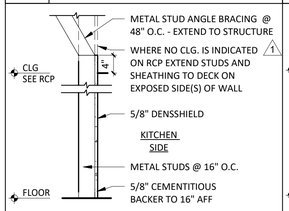
W1 INTERIOR PARTITION



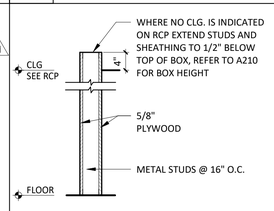
W1a INTERIOR PARTITION



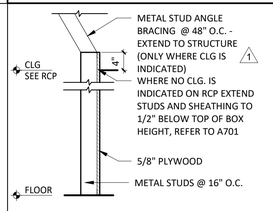
W3 INTERIOR PARTITION



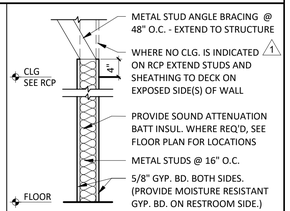
W3a INTERIOR PARTITION



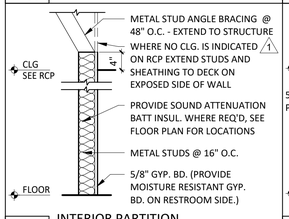
W4 INTERIOR PARTITION



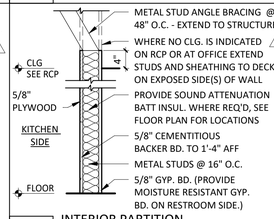
W4a INTERIOR PARTITION



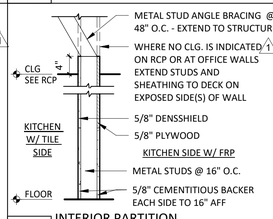
W5 INTERIOR PARTITION



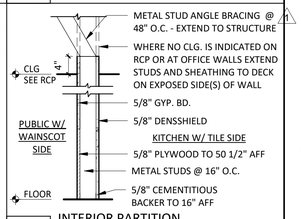
W5a INTERIOR PARTITION



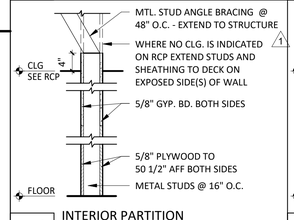
W6 INTERIOR PARTITION



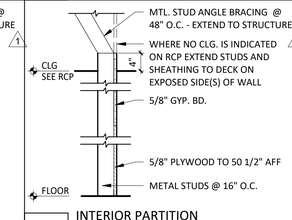
W7 INTERIOR PARTITION



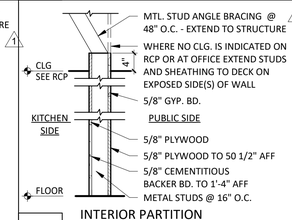
W8 INTERIOR PARTITION



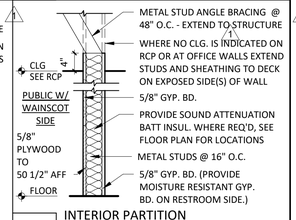
W10 INTERIOR PARTITION



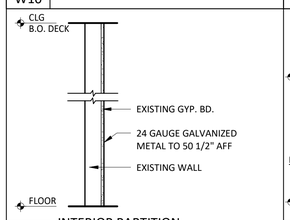
W10a INTERIOR PARTITION



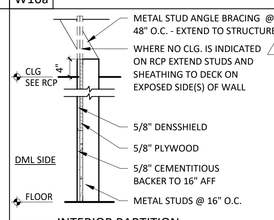
W11 INTERIOR PARTITION



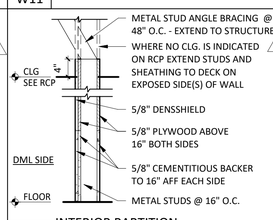
W14 INTERIOR PARTITION



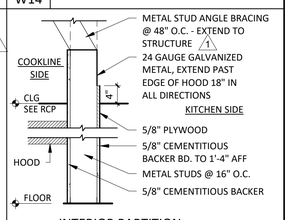
W16ax INTERIOR PARTITION



W22a INTERIOR PARTITION



W25 INTERIOR PARTITION



W26 INTERIOR PARTITION

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AR0014815

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WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

1 Revisions:

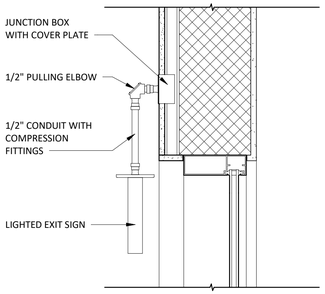
1	06.24.24	LL REVIEW REVISIONS
2	07.15.24	BA-1

Drawn: ARL
Checked: SDL

Project No.
CMG2321

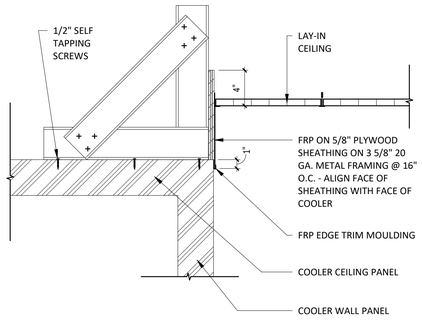
Contents:
ARCHITECTURAL WALL TYPES

A501



6 A502 EXIT SIGN MOUNTING DETAIL

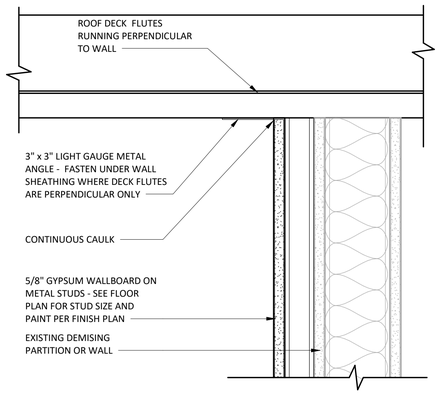
1 1/2" = 1'-0"



NOTE: THIS DETAIL WILL ONLY BE REQUIRED IF THE WALK IN COOLER IS LOWER THAN THE CEILING

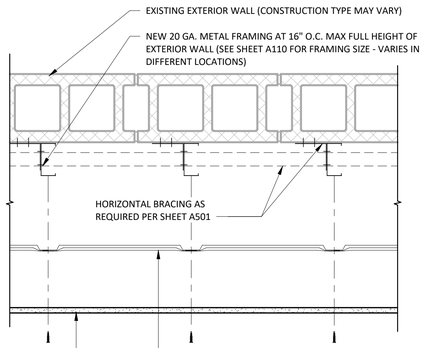
5 A502 FRP CLOSURE @ CEILING ABOVE COOLER

1 1/2" = 1'-0"



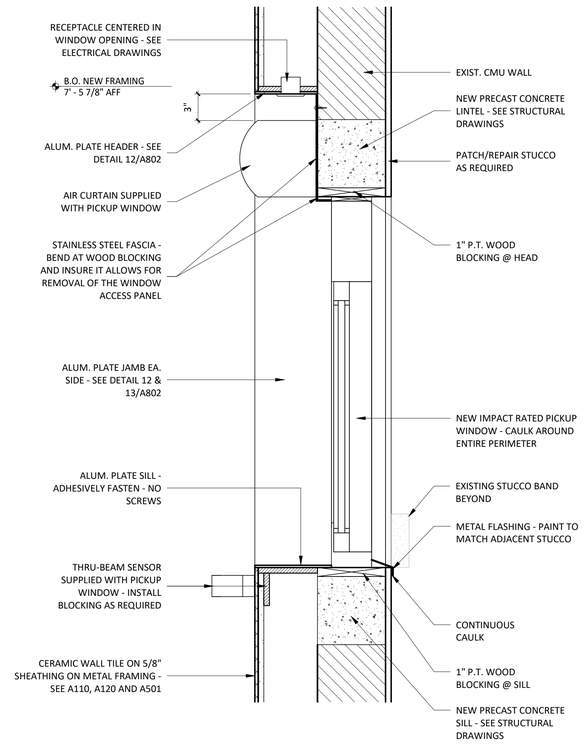
4 A502 ANGLE AT ROOF DECK

3" = 1'-0"



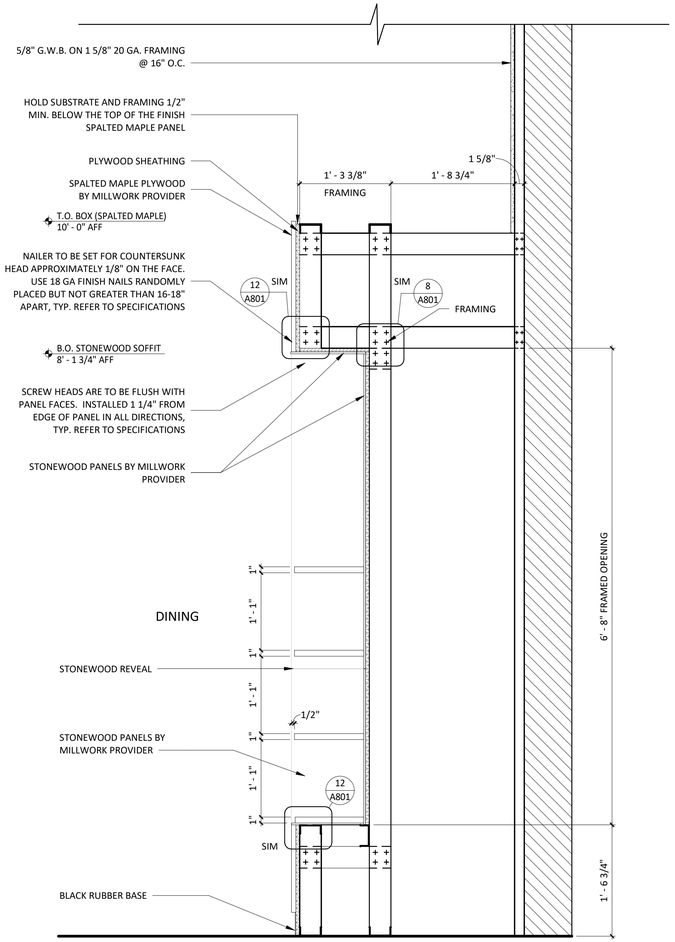
3 A502 FI-FOIL INSULATION INSTALLATION DTL. (EXPLODED VIEW)

1 1/2" = 1'-0"



2 A502 SECTIONAL DETAIL @ PICK-UP WINDOW

1 1/2" = 1'-0"



1 A502 MOPUS SECTION - NO PASS-THRU

1" = 1'-0"

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Revisions:

Drawn: ARL
Checked: SDL

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Contents:
INTERIOR SECTIONS

A502

DOOR SCHEDULE

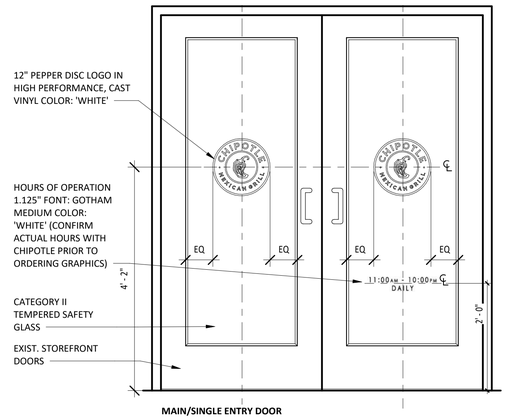
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	NEW	NEW	DOUBLE STOREFRONT (MEDIUM STILE, NON-OFFSET, PANIC)	6' - 0"	8' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	MEDIUM (4")	1A	NEW		1,2,4,5
2	PASSAGE	NEW	NEW	HM REAR KITCHEN (MASONRY)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6
3	PASSAGE	NEW	NEW	KITCHEN/PASSAGE ACCESS DOOR	3' - 6"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	9	NEW		1
4	KITCHEN	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	NEW		
5	PASSAGE	NEW	NEW	MENS RESTROOM (SINGLE-OCCUPANT, PUSH LOCK)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6A	NEW		
6	PASSAGE	NEW	NEW	WOMEN RESTROOM (SINGLE-OCCUPANT, PUSH LOCK)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5A	NEW		
7	COOLER	NEW	-	WALK-IN COOLER DOOR	3' - 0"	6' - 6"	-	-	-	-	GALVALUME	-	-	-	-	7

REMARK NOTES

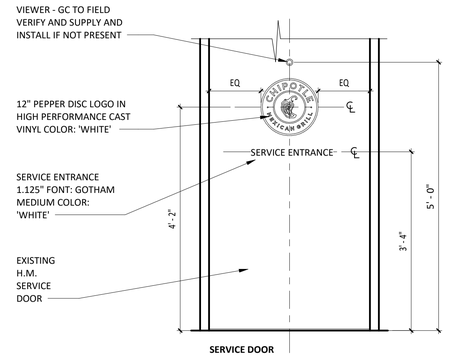
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE 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.
7. DOOR & HARDWARE SUPPLIED BY COOLER MANUFACTURER

*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



SERVICE DOOR

HARDWARE SETS

SET 1A - ENTRY/EGRESS - PAIR - OFFSET - PANIC HARDWARE (YKK SERIES 35H - FL# 16554-R13 - REFER TO SHEETS A870-A875)

(2)	CONTINUOUS HINGE	AS SPECIFIED IN THE PRODUCT APPROVAL
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	EXIT DEVICE	VON DUPRIN 3347 CVR LOCK PER THE PRODUCT APPROVAL (SATIN ALUMINUM)
(2)	PULL HARDWARE	HAGER 12G (8" CTC) OFFSET PULL (US32D) CENTER ON DOOR STILE
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM) - COORDINATE WITH THE CHIPOTLE C.M.
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(1)	THRESHOLD	YKK E9-0487 (SIZE 72") PER THE PRODUCT APPROVAL
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), LIGHT GRAY, OWNER FURNISHED
(2)	SMOKE SEAL	REESE, MODEL 797B-21

SET 3 - REAR EGRESS/SERVICE DOOR - SINGLE - PANIC HARDWARE (SCHLAGE STEELCRAFT H SERIES - MIAMI-DADE NOA# 22-0427.01) - REFER TO SHEETS A880-A884

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR PER THE PRODUCT APPROVAL
(1)	EXIT DEVICE	VON DUPRIN 98/99-US28 (SIZE 42") PER THE PRODUCT APPROVAL
(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	PER THE PRODUCT APPROVAL - CANNOT EXCEED 1/2" IN HEIGHT
(1)	WEATHERSTRIP	PER THE PRODUCT APPROVAL
(1)	DOOR SWEEP	PER THE PRODUCT APPROVAL (BLACK)
(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
(1)	RAIN DRIP	NGP, MODEL 16DKB (AT DOOR HEAD)

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 5A - WOMEN - SINGLE OCCUPANT - KEYPAD LOCK

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26D (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL CO-100-CY-70-KP-RHO-626-PD
(1)	INDICATOR DEADBOLT	SCHLAGE, MODEL B571-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-US32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6A - MEN RESTROOM - SINGLE OCCUPANT - KEYPAD LOCK

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26D (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL CO-100-CY-70-KP-RHO-626-PD
(1)	INDICATOR DEADBOLT	SCHLAGE, MODEL B571-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-US32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

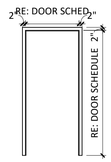
SET 9 - KITCHEN/PASSAGE - KEYPAD LOCK

(3)	HINGE	STANLEY, MODEL FBB179-26D (SIZE 4-1/2" x 4-1/2")
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL CO-100-CY-70-KP-RHO-626-PD
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR STOP	DON-JO, 1407-630 - COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER
(2)	KICK PLATE	HIAWATHA, MODEL KP834-32D

DOOR NOTES

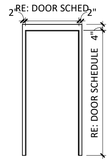
1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE 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 FRAMES



1

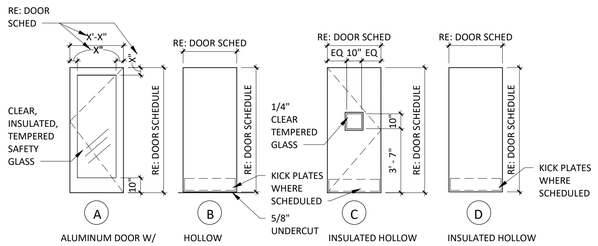
NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.



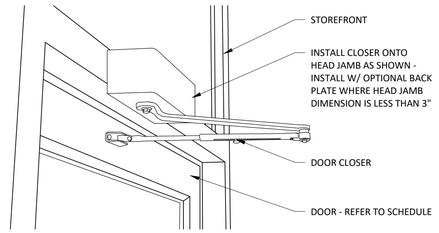
2

NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

DOOR TYPES



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.

Consultant:

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

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07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:

DOOR & HARDWARE SCHEDULE

A601

STOREFRONT DETAILS

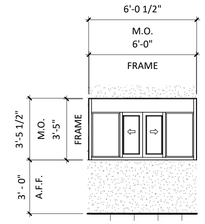
PER PRODUCT APPROVAL & SHOP DRAWIINGS - REFER TO SHEETS A860-A863

GENERAL NOTES

1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "*".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. MATCH EXISTING STOREFRONT GLAZING PER THE PRODUCT APPROVAL. REFER TO SHEETS A860-A863
5. STOREFRONT SYSTEM IS PER THE PRODUCT APPROVAL
6. ALL STOREFRONT FRAMING TO BE CLEAR ANODIZED

STOREFRONT TYPES

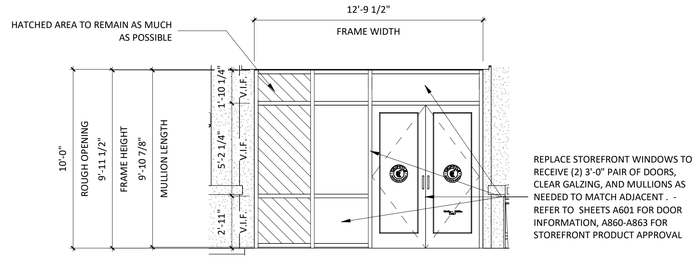
NOTE: ALL VIEWS FROM THE EXTERIOR



QUIKSERV - MODEL: BP-7241E-IP-CHIPOTLE

3 / A602 **WINDOW C**

1/4" = 1'-0"

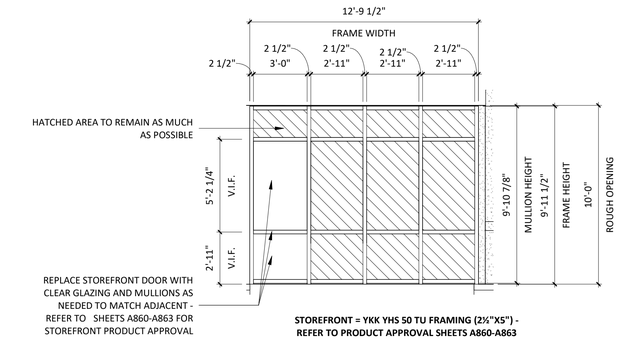


STOREFRONT = YKK YHS 50 TU FRAMING (2½"X5") - REFER TO PRODUCT APPROVAL SHEETS A860-A863

STOREFRONT DOORS = YKK 35H -REFER TO PRODUCT APPROVAL SHEETS A870-A875

2 / A602 **STOREFRONT B**

1/4" = 1'-0"



STOREFRONT = YKK YHS 50 TU FRAMING (2½"X5") - REFER TO PRODUCT APPROVAL SHEETS A860-A863

1 / A602 **STOREFRONT A**

1/4" = 1'-0"

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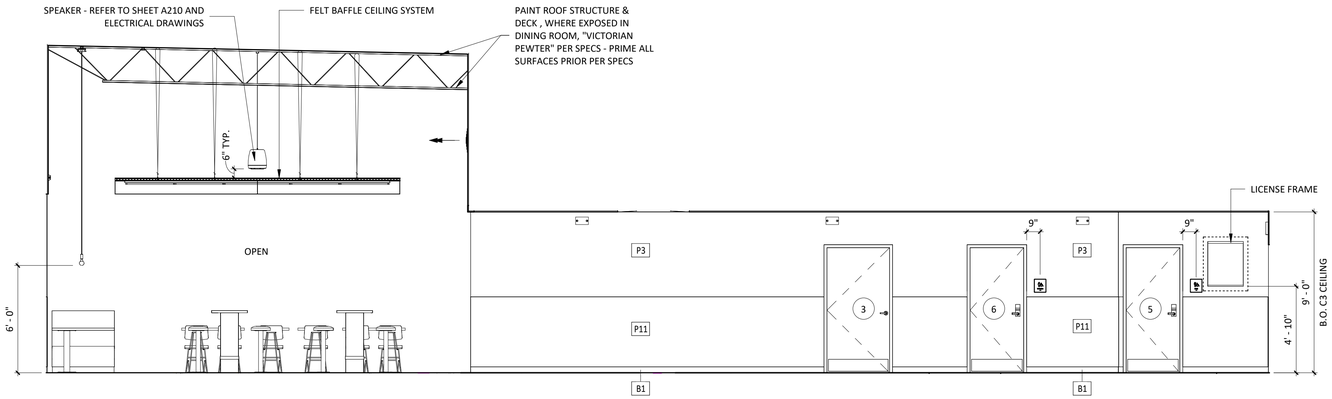
Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:

STOREFRONT DETAILS

A602



6 A701 **INT. ELEV. @ PASSAGE SOUTH**
1/4" = 1'-0"

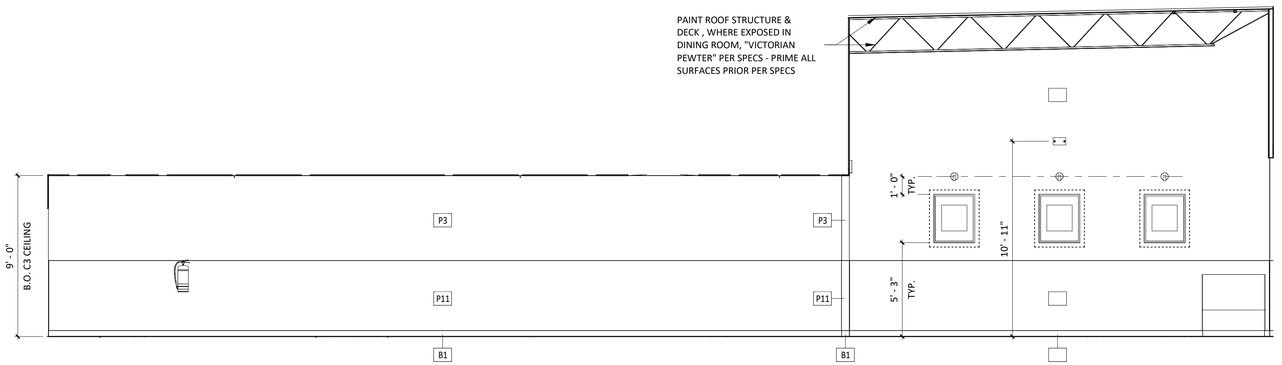
INT ELEV GENERAL NOTES

1	REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2	REFER TO A120 FOR FINISH SCHEDULE.
3	REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

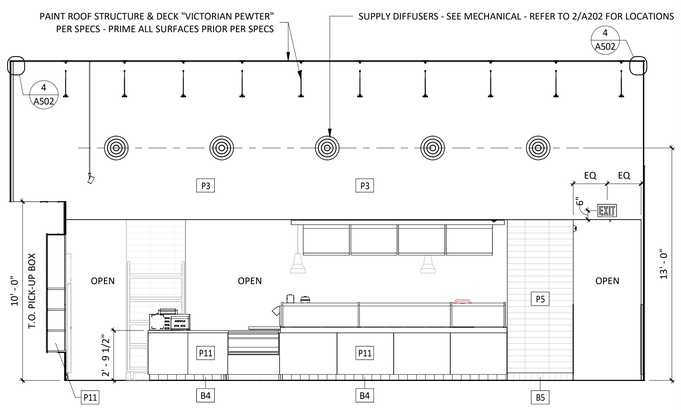
ELEVATION LEGEND

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

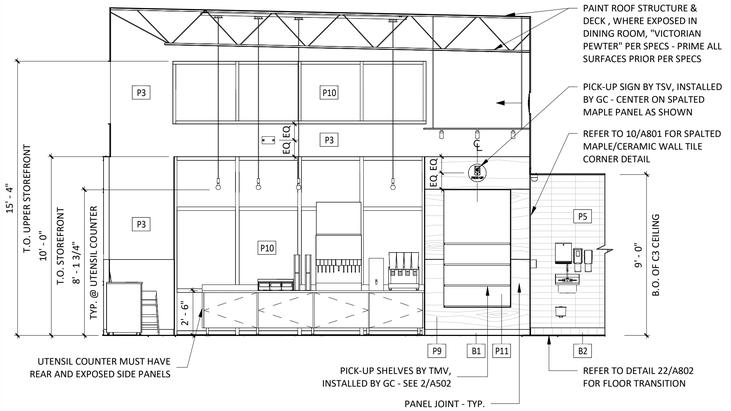
5 A701 **INT. ELEV. @ PASSAGE WEST**
1/4" = 1'-0"



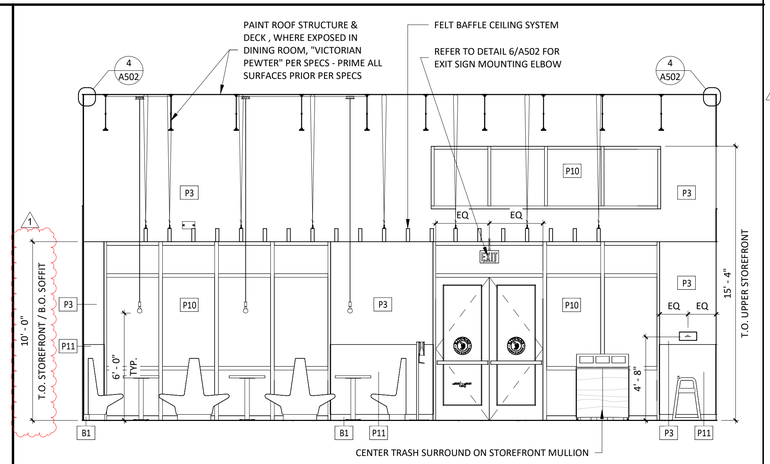
4 A701 **INT. ELEV. @ DINING/PASSAGE NORTH**
1/4" = 1'-0"



3 A701 **INT. ELEV. @ DINING WEST**
1/4" = 1'-0"



2 A701 **INT. ELEV. @ DINING SOUTH**
1/4" = 1'-0"



1 A701 **INT. ELEV. @ DINING EAST**
1/4" = 1'-0"

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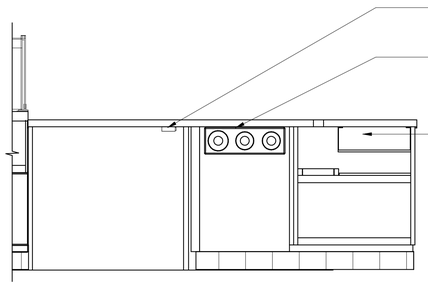
1	10.10.24	CB-2

Drawn: ARL
Checked: SDL

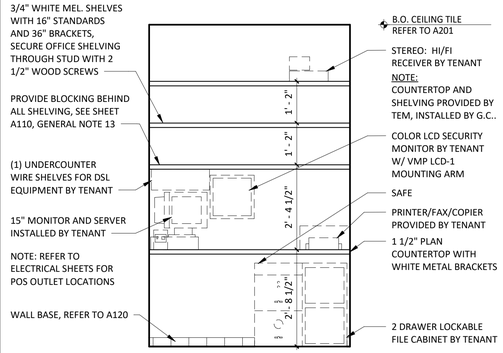
Project No.
CMG2321

Contents:
ELEVATIONS - INTERIOR DINING

A701



13 A702 **TYP. ELEV - POS**
3/4" = 1'-0"



12 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"

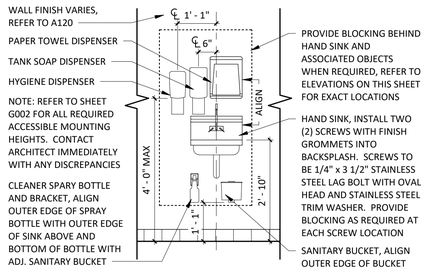
ELEVATION LEGEND

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

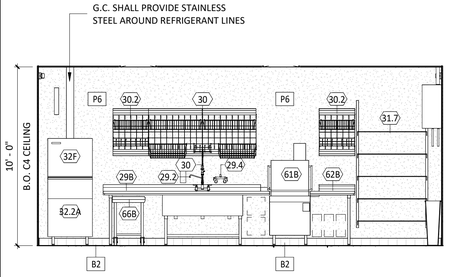
GENERAL NOTES

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.

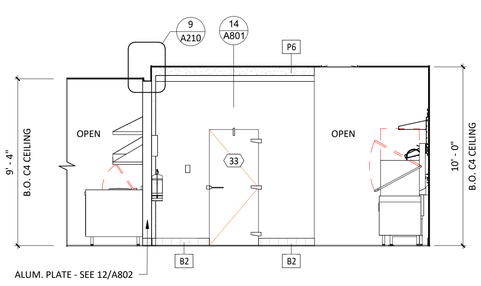
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



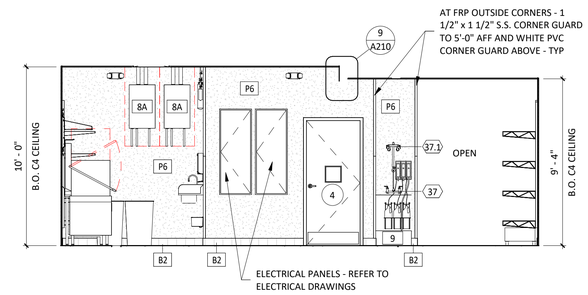
11 A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



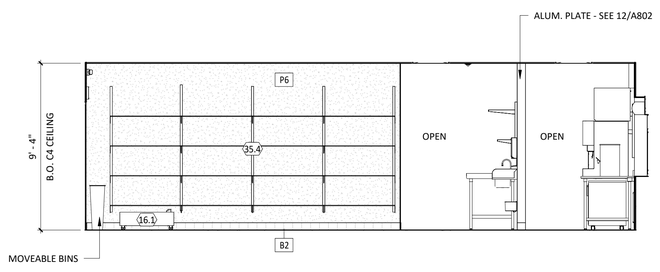
10 A702 **INT. ELEV. @ WAREWASHING**
1/4" = 1'-0"



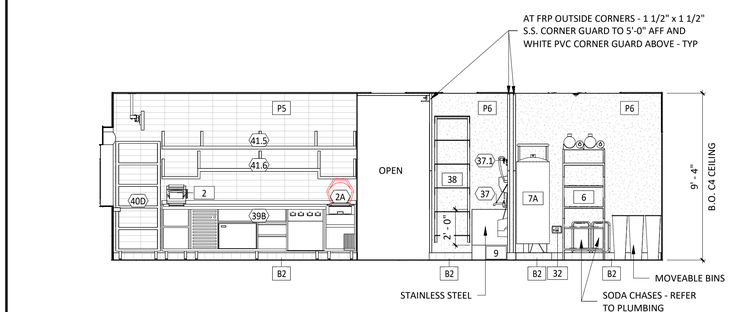
9 A702 **INT. ELEV. @ WALK-IN-COOLER**
1/4" = 1'-0"



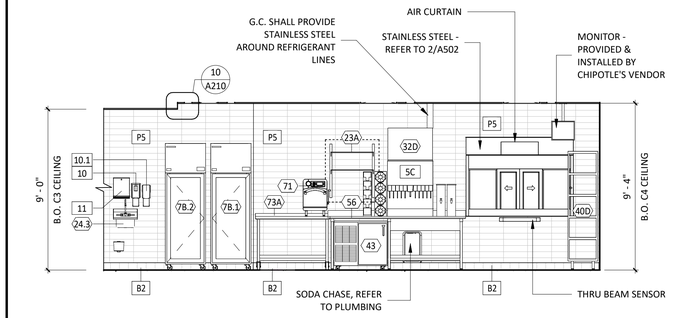
8 A702 **INT. ELEV. @ OFFICE**
1/4" = 1'-0"



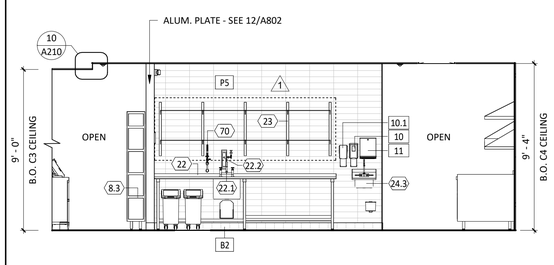
7 A702 **INT. ELEV. @ DRY STORAGE**
1/4" = 1'-0"



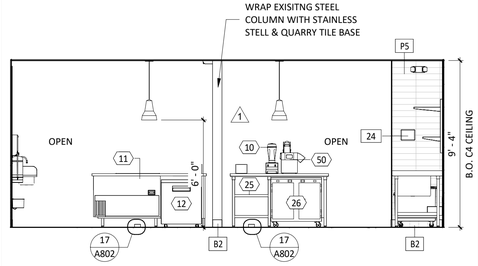
6 A702 **INT. ELEV. @ DML / MOP SINK /Co2**
1/4" = 1'-0"



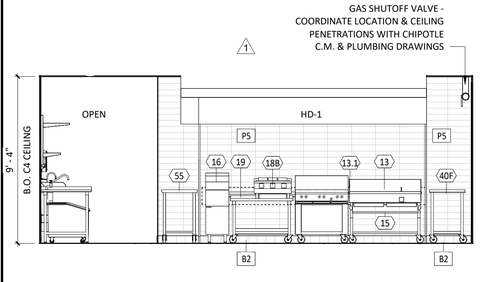
5 A702 **INT. ELEV. @ PICK-UP WINDOW**
1/4" = 1'-0"



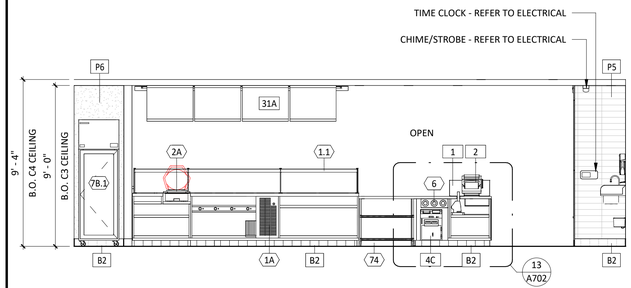
4 A702 **INT. ELEV. @ PREP SINK/DML**
1/4" = 1'-0"



3 A702 **INT. ELEV. @ ISLAND TABLES**
1/4" = 1'-0"



2 A702 **INT. ELEV. @ COOKLINE**
1/4" = 1'-0"



1 A702 **INT. ELEV. @ SERVELINE**
1/4" = 1'-0"

Consultant:

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1	09.17.24	BA-2

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
ELEVATIONS - INTERIOR KITCHEN

A702

RESTROOM ACCESSORY SCHEDULE

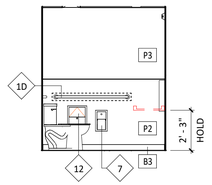
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC					36" AFF to Top of Grasping Surface	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
8	Utility Shelf	ASI	0692	1	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
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
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	SEE MEP	SEE MEP	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	2	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB300-05	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

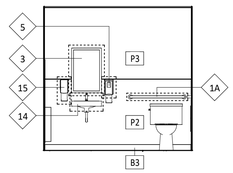
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S 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.



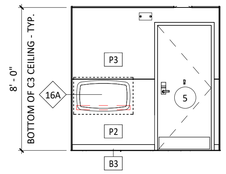
10 A710 **INT. ELEV. - MEN - WEST**
1/4" = 1'-0"



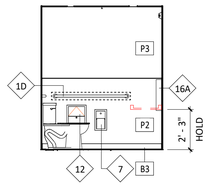
9 A710 **INT. ELEV. - MEN - SOUTH**
1/4" = 1'-0"



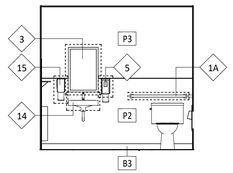
8 A710 **INT. ELEV. - MEN - EAST**
1/4" = 1'-0"



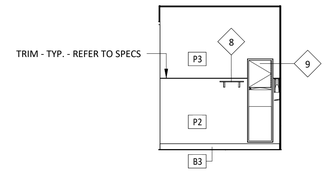
7 A710 **INT. ELEV - MEN - NORTH**
1/4" = 1'-0"



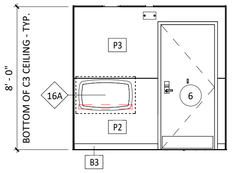
6 A710 **INT. ELEV. - WOMEN - WEST**
1/4" = 1'-0"



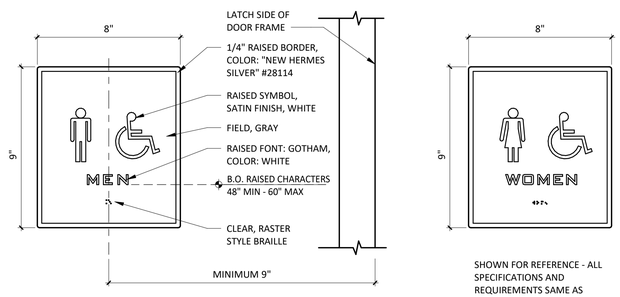
5 A710 **INT. ELEV. - WOMEN - SOUTH**
1/4" = 1'-0"



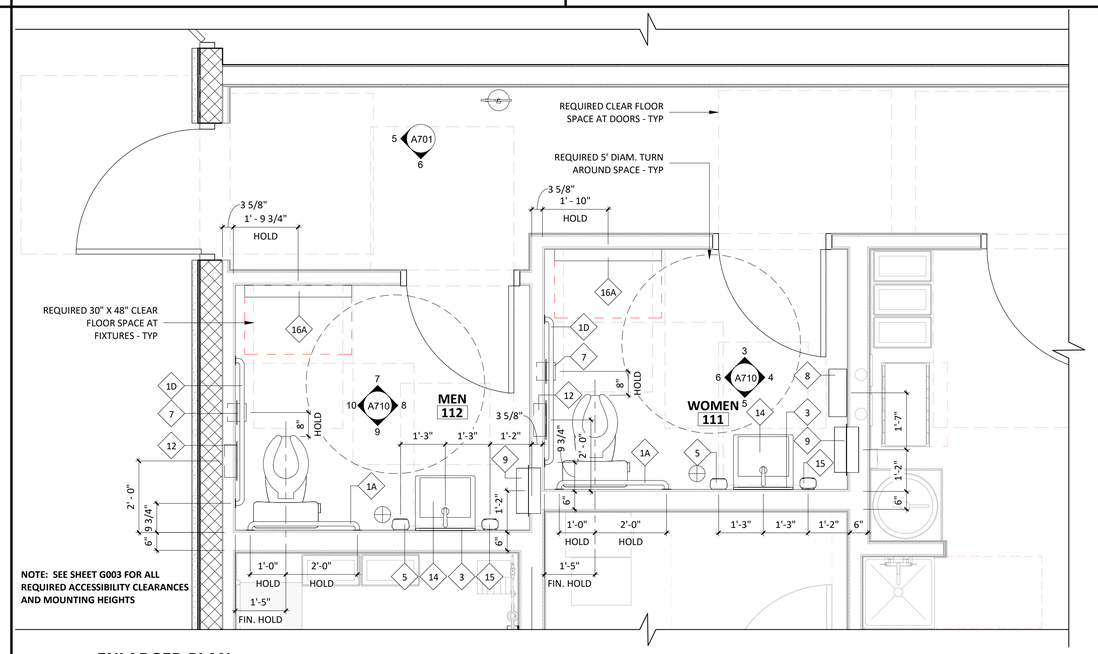
4 A710 **INT. ELEV. - WOMEN - EAST**
1/4" = 1'-0"



3 A710 **INT. ELEV. - WOMEN - NORTH**
1/4" = 1'-0"



2 A710 **TYP WASHROOM SIGN**
3" = 1'-0"



1 A710 **ENLARGED PLAN**
1/2" = 1'-0"

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Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

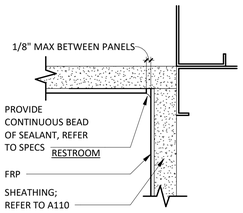
Drawn: ARL
Checked: SDL

Project No.: CMG2321

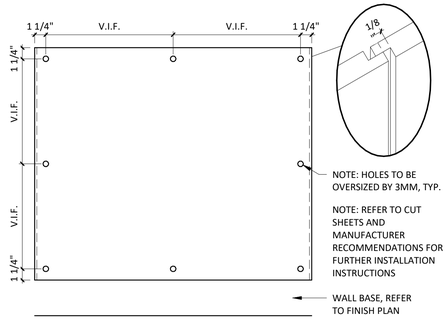
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RESTROOM DETAILS

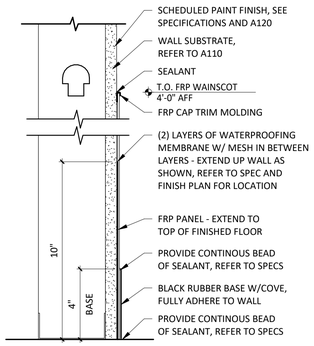
A710



20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"

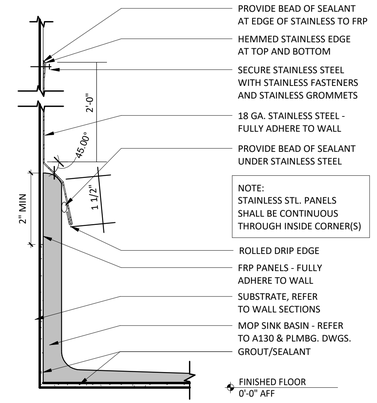


19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"

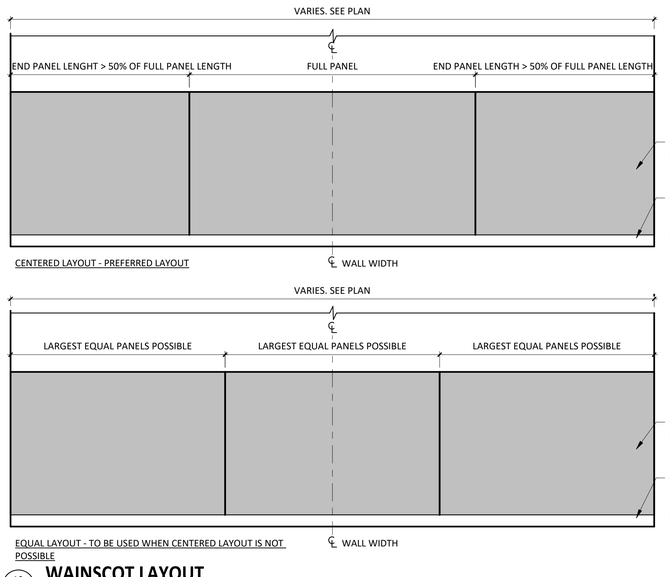


18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"

NOTE: ALL CONCEALED WOOD TO BE FRT RATED

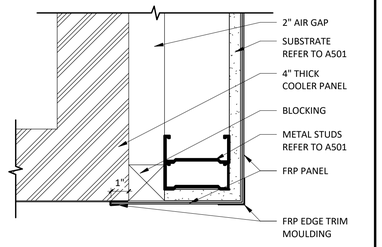


17 A801 **SECTION @ MOP SINK**
6" = 1'-0"

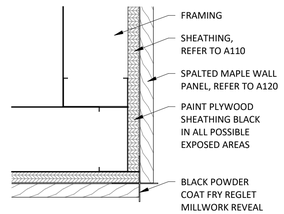


16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"

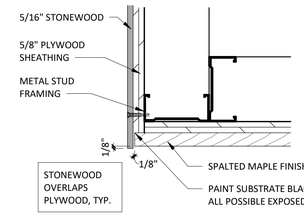
15 A801 **NOT USED**
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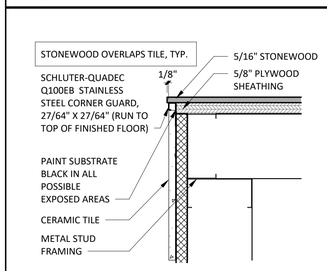
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



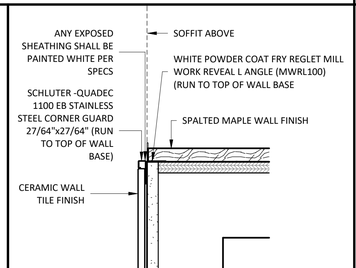
13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"



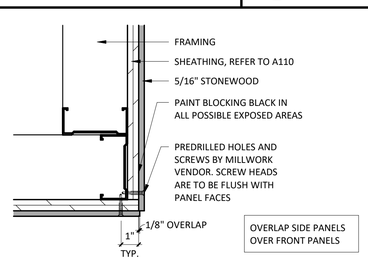
12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"



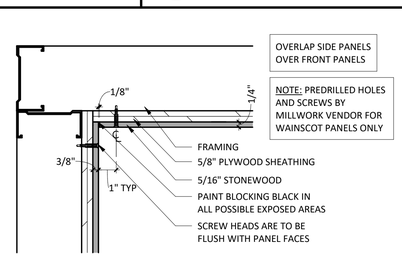
11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"



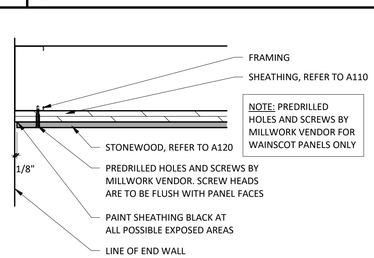
10 A801 **PICK-UP SHELF CORNER DETAIL**
3" = 1'-0"



9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"

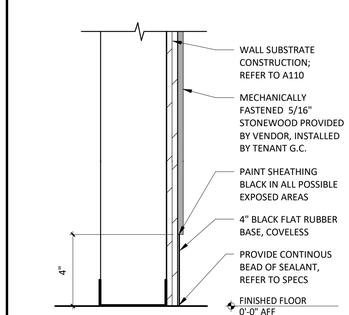


8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"

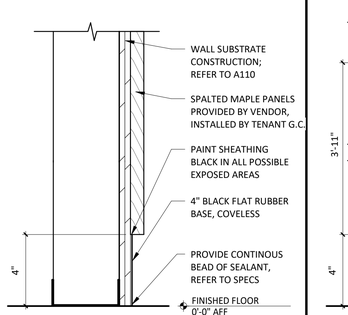


7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"

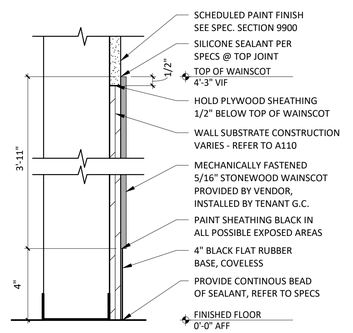
6 A801 **NOT USED**
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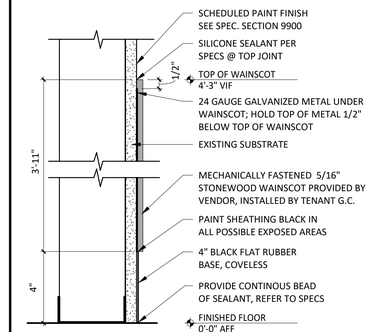
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



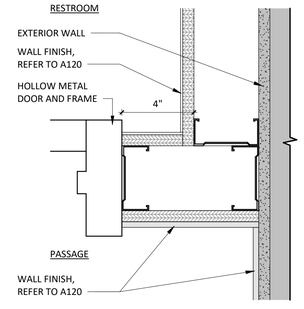
4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



1 A801 **PLAN - DOOR JAMB**
3" = 1'-0"

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Checked: SDL

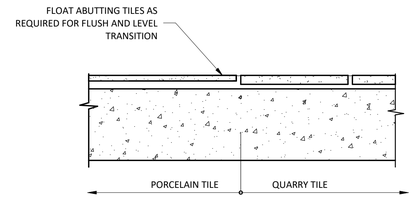
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Contents: FINISH DETAILS

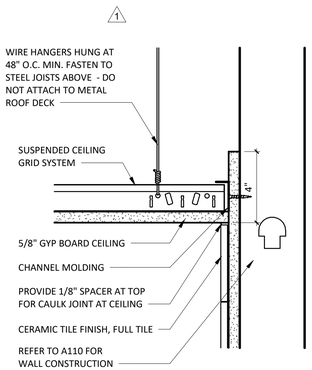
A801

GENERAL NOTES

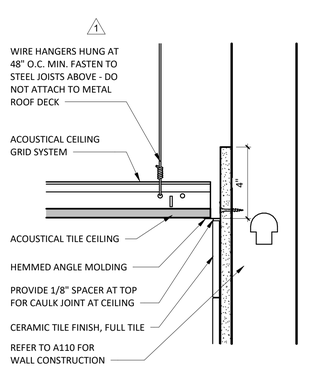
1. TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. 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.



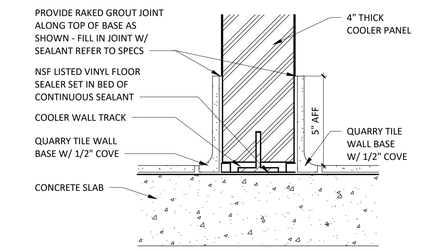
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"



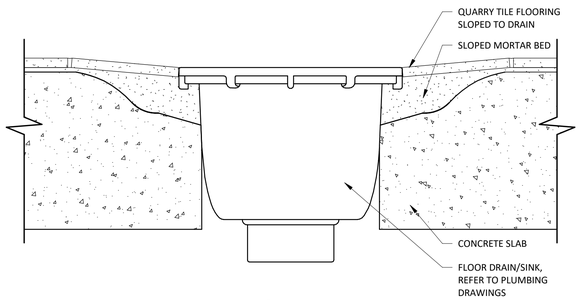
21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"



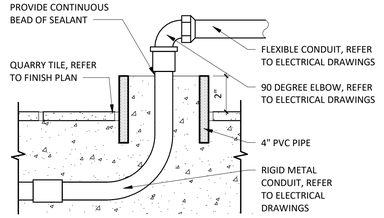
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



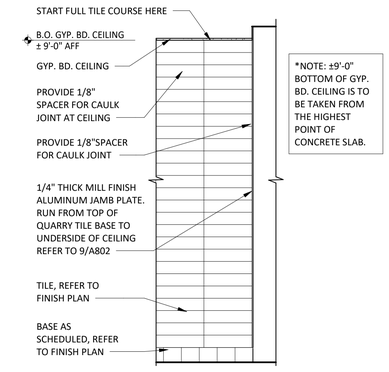
19 A802 **COOLER WALL @ QT**
3" = 1'-0"



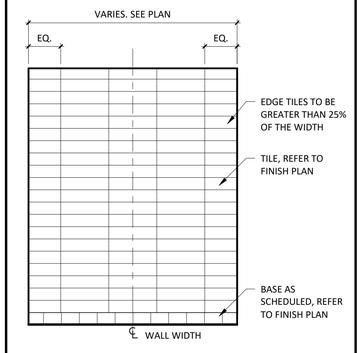
18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"



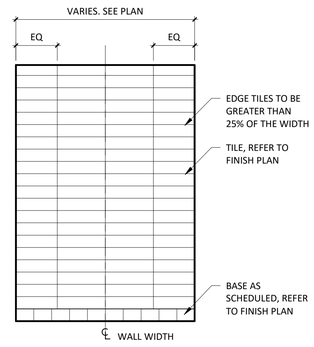
17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"



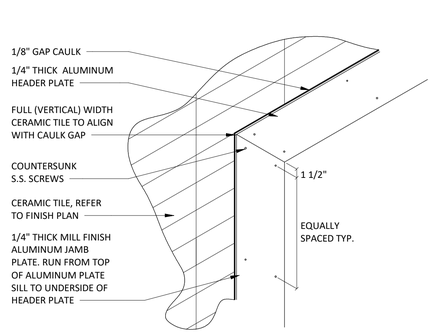
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



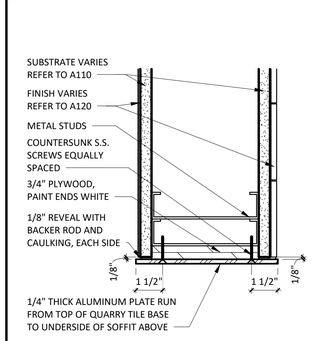
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



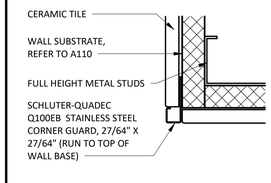
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



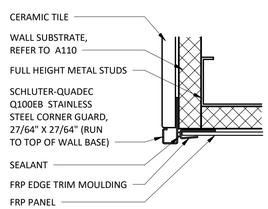
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



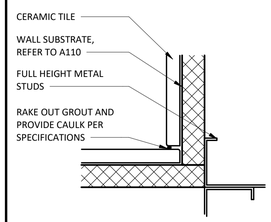
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



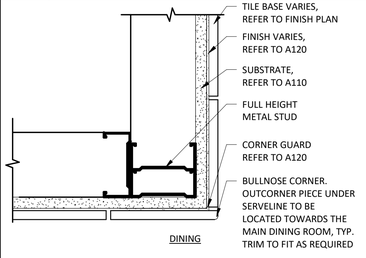
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



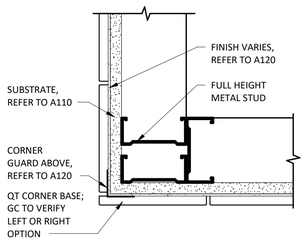
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



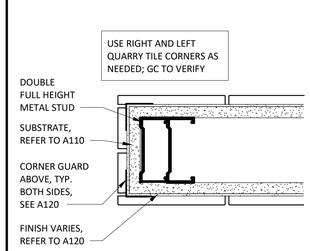
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



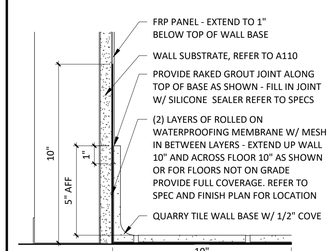
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



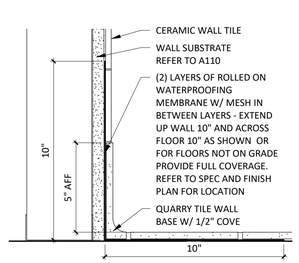
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



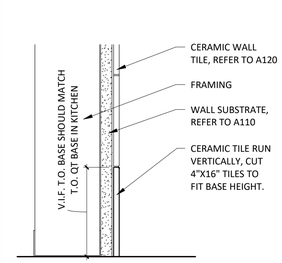
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



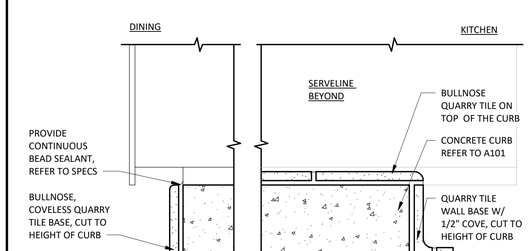
5 A802 **QT BASE @ FRP**
3" = 1'-0"



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:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

1	06.24.24	LL REVIEW REVISIONS

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
TILE DETAILS

A802

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, FL 33175
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Miami Tech, Inc.
3611 NW 74 Street
Miami, FL 33147

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Aluminum Stands for Mechanical Units

APPROVAL DOCUMENT: Drawing No. **23-63451**, titled "Aluminum Stands for Mechanical Units", sheets 1 through 5 of 5, dated 06/20/2023, , prepared by Engineering Express, signed and sealed by Richard Neet, P.E on 03/07/2024, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number & expiration date by Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

04/09/24

NOA No. 24-0117.04
Expiration Date: April 18, 2029
Approval Date: April 18, 2024
Page 1

Miami Tech, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS
1. Drawing No. **23-63451**, titled "Aluminum Stands for Mechanical Units", sheets 1 through 5 of 5, dated 06/20/2023, , prepared by Engineering Express, signed and sealed by Richard Neet, P.E on 03/07/2024.

B. TESTS
1. None.

C. CALCULATIONS
1. Engineering design calculations, prepared by Engineering Express, dated 11/13/2023, signed and sealed by Richard Neet, P.E.

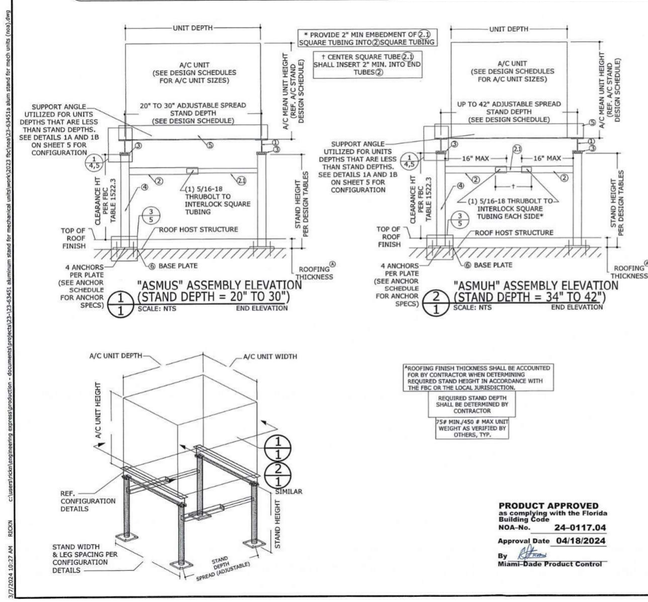
D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Engineering Express, dated 01/11/2024, signed & sealed by Richard Neet, P.E.
2. Statement letter of no financial interest, issued by Engineering Express, dated 01/11/2024, signed & sealed by Richard Neet, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0117.04
Expiration Date: April 18, 2029
Approval Date: April 18, 2024

ALUMINUM STANDS FOR MECHANICAL UNITS (ASMU)



PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0117.04
Approval Date 04/18/2024
By
Miami-Dade Product Control

RICHARD NEET, P.E. PE# 86468 CA# 9085 — MARCH 7, 2024 — FL

MAXIMUM ALLOWABLE DESIGN PRESSURES:

AS NOTED IN DESIGN SCHEDULES

DESIGN NOTES:

DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND THE GOVERNING CODE (FBC 8TH EDITION (2023) BUILDING CODE 10TH EDITION (2022)) SHALL BE LESS THAN OR EQUAL TO THE ULTIMATE AND LRFD/LSD PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND THE 2020 ALUMINUM DESIGN MANUAL.
2. MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 75LB OR MAXIMUM AS LISTED HEREIN.
3. THE ARCHITECT/ENGINEER OF RECORD FOR THE STRUCTURE/STRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
4. REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
5. ALL FASTENERS TO BE #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH CHAPTER 3, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION,INC., & APPLICABLE FEDERAL,STATE, AND LOCAL CODES. PROVIDE (3) FITCHES MIN PAST THREAD PLANE.
6. ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR 6005-T5.
7. ALL 22GA DEFORMED STEEL STRAPS USED FOR UNIT TIE-DOWNS SHALL BE Fy = 36KSI MIN. STEEL, FABRICATION OF STEEL STRAPS SHALL BE BY STRAP MANUFACTURER ONLY.
8. ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM f'c COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS, U.N.O.
9. ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003.8.1 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE 3.2.1, SUGGESTED WELD FILLER: 5356 ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS ¼" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
11. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
12. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, ET. AL. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
13. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
15. AC STANDS SHALL LABELED PER MIAMI-DADE REQUIREMENTS FOR NON-MANDATORY PRODUCT APPROVALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

ENGINEERING EXPRESS
POSTAL ADDRESS: 2234 NORTH FEDERAL HWY #7664 BOCA RATON, FL 33431
ENGINEERING@EXPRESS.COM

Miami Tech, Inc.
3611 NW 74th St
Miami, FL 33147
(954) 367-3494
Aluminum Stand for Mechanical Units
MIAMI DADE NOTICE OF ACCEPTANCE (NOA)
Florida Building Code

REVISIONS	DATE
REMARKS	

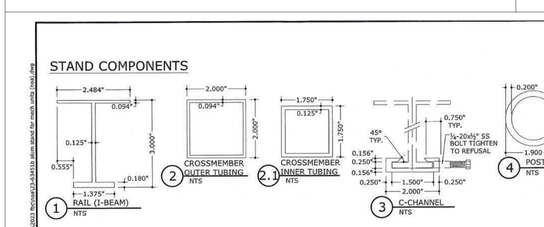
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23-63451

SCALE: NTS UNLESS NOTED

1 of 5

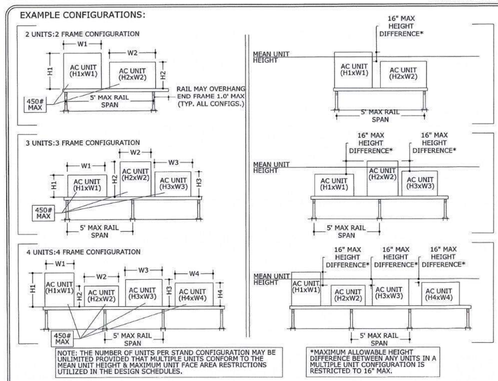
STAND COMPONENTS



MEAN UNIT HEIGHT & MAX FACE AREA CALCULATION DIRECTIVE:

THIS DIRECTIVE SHALL BE USED TO CALCULATE THE MEAN UNIT HEIGHT & MAXIMUM FACE AREA OF ANY MULTIPLE UNIT CONFIGURATION.

EXAMPLE CONFIGURATIONS:

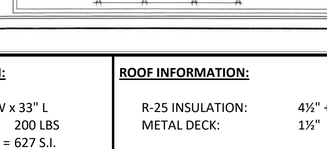


FORMULAS USED FOR DETERMINING MEAN UNIT HEIGHT & MAXIMUM UNIT FACE AREA:

1. CALCULATE THE MEAN UNIT HEIGHT BY THE FOLLOWING EQUATION:
   - TWO UNITS: $\frac{H1+H2}{2}$
   - THREE UNITS: $\frac{H1+H2+H3}{3}$
   - FOUR UNITS: $\frac{H1+H2+H3+H4}{4}$
   - "n" UNITS: $\frac{H1+H2+H3+\ldots Hn}{n}$
2. CALCULATE THE MAXIMUM UNIT FACE AREA BY THE FOLLOWING EQUATION:
   - TWO UNITS: (H1xW1)+(H2xW2)
   - THREE UNITS: (H1xW1)+(H2xW2)+(H3xW3)
   - FOUR UNITS: (H1xW1)+(H2xW2)+(H3xW3)+(H4xW4)
   - "n" UNITS: (H1xW1)+...(HnxWn)

EXAMPLE SCENARIO:

1. CONSIDER A FOUR UNIT CONFIGURATION WITH THE DIMENSIONS AS SHOWN BELOW.
2. CALCULATE THE MEAN UNIT HEIGHT.
   - FOUR UNITS: $\frac{H1+H2+H3+H4}{4} = \frac{20"+29"+22"+25"}{4} =$ 24" MEAN UNIT HEIGHT
3. CALCULATE THE MAXIMUM FACE AREA.
   - FOUR UNITS: (H1xW1)+(H2xW2)+(H3xW3)+(H4xW4) = (20"x21")+(29"x25")+(22"x22")+(25"x27")
   = 2304 in² = 16 ft²



PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0117.04
Approval Date 04/18/2024
By
Miami-Dade Product Control

RICHARD NEET, P.E. PE# 86468 CA# 9085 — MARCH 7, 2024 — FL

ALUMINUM STAND DESIGN SCHEDULE

STAND FOR CU-1 & CU-2

STAND FOR CU-3

STAND DESIGN SCHEDULE (MAXIMUM ALLOWABLE LATERAL/UPLIFT PRESSURES)

MAX UNIT HEIGHT	MAX FACE AREA	MAX POST HEIGHT	2 FRAMES		3 FRAMES		4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		9 FRAMES		10 FRAMES	
			LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT
24.0 in	576.0 in² (= 4.0 sqft)	18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
30.0 in	900.0 in² (= 6.3 sqft)	18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	1008.0 in² (= 7.0 sqft)	18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	179 psf	142 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	1152.0 in² (= 8.0 sqft)	18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	188 psf	148 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	157 psf	124 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	1440.0 in² (= 10.0 sqft)	18 in	161 psf	151 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	150 psf	119 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	125 psf	99 psf	188 psf	149 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	1728.0 in² (= 12.0 sqft)	18 in	159 psf	126 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	125 psf	99 psf	188 psf	148 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	105 psf	83 psf	157 psf	124 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	2160.0 in² (= 15.0 sqft)	18 in	128 psf	101 psf	191 psf	151 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	100 psf	79 psf	150 psf	119 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		30 in	84 psf	66 psf	125 psf	99 psf	167 psf	132 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
40.0 in	3200.0 in² (= 22.2 sqft)	18 in	86 psf	68 psf	129 psf	102 psf	172 psf	136 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
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		30 in	56 psf	45 psf	85 psf	67 psf	113 psf	89 psf	141 psf	111 psf	169 psf	134 psf	198 psf	156 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
48.0 in	3840.0 in² (= 26.7 sqft)	18 in	72 psf	57 psf	108 psf	85 psf	143 psf	113 psf	179 psf	142 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
		24 in	56 psf	44 psf	84 psf	67 psf	113 psf	89 psf	141 psf	111 psf	169 psf	133 psf	197 psf	156 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
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48.0 in	4800.0 in² (= 33.3 sqft)	18 in	57 psf	45 psf	86 psf	68 psf	115 psf	91 psf	143 psf	113 psf	172 psf	136 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
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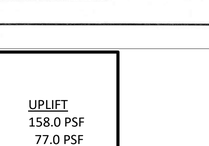
DESIGN SCHEDULE NOTES:
1. MAXIMUM FRAME-TO-FRAME SPACING SHALL NOT EXCEED 5'-0" O.C. (SEE FRAME SPACING DIRECTIVE)
2. ALLOWABLE STAND DEPTH SHALL BE 20" MINIMUM UP TO 42" MAXIMUM.
3. A "FRAME" CONSISTS OF (2) POSTS CONNECTED WITH (1) CROSS MEMBER. FOR EXAMPLE, A "2 FRAME" STAND WILL HAVE 4 POSTS TOTAL.
4. REFERENCE STAND DETAILS HEREIN FOR STAND COMPONENTS AND INSTALLATION OPTIONS.
5. SEE TIEDOWN DIRECTIVE FOR UNIT TIEDOWN REQUIREMENTS AND LIMITATIONS.
6. UNIT OR STAND DIMENSIONS OUTSIDE THE PARAMETERS LISTED IN THIS SCHEDULE WILL REQUIRE SEPARATE SITE SPECIFIC ENGINEERING.
7. REQUIRED DESIGN PRESSURES FOR INSTALLATION SHALL BE CALCULATED ON A SITE SPECIFIC BASIS AND BE LESS THAN OR EQUAL TO THE MAX ALLOWABLE PRESSURES LISTED IN THIS DRAWING.
8. INTERPOLATION BETWEEN UNIT HEIGHTS, FACE AREA OR POST HEIGHT IS **NOT** PERMITTED.
9. THE UNIT DEPTH SHALL NOT EXCEED THE MAX UNIT HEIGHT LISTED. SEE THE TIEDOWN STRAP SCHEDULE FOR MINIMUM ALLOWABLE UNIT DEPTHS.

IF TOTAL UNIT WIDTH REQUIRES FRAME SPACING GREATER THAN 5', AN ADDITIONAL FRAME SHALL BE ADDED AT MID SPAN TO MEET THE 5' MAX SPACING REQUIREMENT (EVEN IF DESIGN SCHEDULE ALLOWS FOR LESSER FRAMES)



FRAME SPACING DIRECTIVE

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0117.04
Approval Date 04/18/2024
By
Miami-Dade Product Control



1/3 BASE PLATE REACTIONS
NTS

ENGINEER OF RECORD TO VERIFY THAT THE HOST STRUCTURE CAN SUPPORT THE SERVICE LOAD REACTIONS LISTED BELOW:
M = 5 KIP-IN
V = 0.5 KIPS
T = C = 0.8 KIPS

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Miami Tech, Inc.
3611 NW 74th St
Miami, FL 33147
(954) 367-3494
Aluminum Stand for Mechanical Units
MIAMI DADE NOTICE OF ACCEPTANCE (NOA)
Florida Building Code

REVISIONS	DATE
REMARKS	

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23-63451

SCALE: NTS UNLESS NOTED

3 of 5

EQUIPMENT INFORMATION:

CU-1 19" H x 23" W x 33" L
WEIGHT = 200 LBS
FRONT AREA = 627 S.I.

CU-2 22" H x 14" W x 36" L
WEIGHT = 100 LBS
FRONT AREA = 308 S.I.

CU-3 18" H x 14" W x 22" L
WEIGHT = 100 LBS
FRONT AREA = 252 S.I.

ROOF INFORMATION:

R-25 INSULATION: 4½" +/-
METAL DECK: 1½"

HGT. FROM TOP OF STRUCTURE TO ROOF SURFACE APPROXIMATELY 6"

STAND HEIGHT REQUIRED: (FBCB TABLE 1509.6.5)

2 UNIT STAND FOR CU-1 & CU-2
MEAN UNIT HEIGHT 20½"
MAX FACE AREA 935
MIN. STAND HEIGHT NEEDED 30"

SINGLE UNIT STAND FOR CU-3
MEAN UNIT HEIGHT 18"
MAX FACE AREA 252
MIN. STAND HEIGHT NEEDED 30"

NOTE: G.C. SHALL FIELD VERIFY INSULATION THICKNESS PRIOR TO ORDERING STANDS TO INSURE THEY ARE TALL ENOUGH

WIND PRESSURE: (ZONE 2)

	LATERAL	UPLIFT
MAX. DESIGN	200.0 PSF	158.0 PSF
CALCULATED	110.0 PSF	77.0 PSF

1/A820 **CONDENSER STAND NOA #24-0117.04**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
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AR0014815



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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

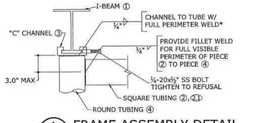
Project No.
CMG2321

Contents:

PRODUCT APPROVAL - CONDENSER STAND

A820

FRAME ASSEMBLY & UNIT TIE-DOWN DETAILS:



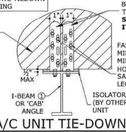
1/4 FRAME ASSEMBLY DETAIL
NTS

TIEDOWN STRAP SCHEDULE

MAX UNIT HEIGHT (in)	MIN UNIT DEPTH (in)	MAX LATERAL PRESSURE (psf)	NO. OF STRAPS REQUIRED (PER UNIT)
UP TO 24	12-19	UP TO 80	0
		UP TO 120	0
		UP TO 200	2
	20	UP TO 80	0
		UP TO 120	0
		UP TO 200	0
UP TO 30	12-19	UP TO 80	0
		UP TO 120	2
		UP TO 200	2
	20	UP TO 80	0
		UP TO 120	0
		UP TO 200	0
UP TO 36	12-19	UP TO 80	0
		UP TO 120	2
		UP TO 200	3
	20	UP TO 80	0
		UP TO 120	2
		UP TO 200	3
UP TO 40	16-23	UP TO 80	0
		UP TO 120	2
		UP TO 200	3
	24	UP TO 80	0
		UP TO 120	2
		UP TO 200	3
UP TO 48	16-23	UP TO 80	3
		UP TO 120	4
		UP TO 200	5
	24	UP TO 80	2
		UP TO 120	2
		UP TO 200	4
UP TO 54	16-23	UP TO 80	4
		UP TO 120	5
		UP TO 200	5
	24	UP TO 80	2
		UP TO 120	4
		UP TO 200	5
UP TO 60	SITE SPECIFIC DESIGN REQUIRED		

TIEDOWN SCHEDULE NOTES:
1. THE TIEDOWN CLIP AND STRAP REQUIREMENTS ON THIS SHEET DO NOT ACCOUNT FOR INTEGRATED FEET OR RAILS ON THE MECHANICAL UNITS. IF INTEGRATED TIEDOWN FEET OR RAILS EXIST ON THE UNIT, SEPARATE ENGINEERING IS REQUIRED.
2. THE TIEDOWN REQUIREMENTS ON THIS SHEET ACCOUNT FOR RECTANGULAR SHAPED UNITS ONLY. CIRCULAR OR OTHER SHAPED MECHANICAL EQUIPMENT (FANS, DUCTWORK, PIPES, ETC.) SHALL BE CERTIFIED SEPARATELY.

THIS DETAIL IS APPLICABLE FOR UNITS UP TO 54" TALL MAX. UNITS TALLER THAN 54" REQUIRE SITE SPECIFIC OR SEPARATE TIEDOWN ENGINEERING



(2) 1" WIDE x 14GA (0.070") OR x 12GA (0.105") ASTM A-653 GRADE 33 GALV STEEL ANGLE (CUTD-1 BY MIAMI TECH). UTILIZE (2) MIN. PER CORNER (8 TOTAL). **NOTE: IF UNIT MANUFACTURER HAS SEPARATE APPROVED TIEDOWN ENGINEERING IT MAY BE USED IN LIEU OF THIS DIRECTIVE.**

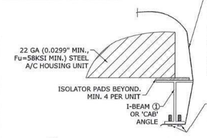
FASTEN CLIP VERTICAL LEG TO 22 GA (0.0299" MIN.) STEEL HOUSING WITH (5) #10 SAE GRADE 2 MIN. SHEET METAL SCREWS PER CLIP. FASTEN CLIP HORIZONTAL LEG TO I-BEAM RAIL WITH (1) ½"Ø SAE GRADE 2 MIN. THRU BOLT CENTERED ABOUT LEG.

NOTE: UNIT TIEDOWN DETAILS MAY ALSO BE USED TO ANCHOR THE UNIT TO THE SUPPORT ANGLE SHOWN ON NEXT SHEET (I.E. I-BEAM CAN BE SUBSTITUTED WITH ANGLE SUPPORT AS BASE MATERIAL)

2/4 A/C UNIT TIE-DOWN DETAIL
NTS (SEE TIEDOWN STRAP SCHED. FOR STRAP REQUIREMENTS)

*C-CHANNEL TO POST WELD NOTE:
IN AREAS WHERE ¼" WELD DIAMETER CANNOT BE ACHIEVED, CONTINUE WELD AROUND FULL PERIMETER OF POST TO PREVENT WATER INFILTRATION. WELD DIAMETER WILL DECREASE TO 0.05" ALONG C-CHANNEL EDGE. SEE DETAIL BELOW.





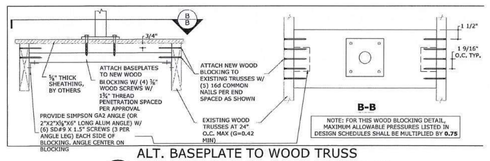
1"x 22ga CONTINUOUS GALV. STEEL STRAP (Fy = 36 KSI MIN.) SHALL PASS OVER UNIT TO I-BEAM ON OPPOSITE SIDE TIGHTENED SNUG AGAINST UNIT. STRAPS SHALL BE SPACED SYMMETRICALLY OVER UNITS NO CLOSER THAN 2" FROM UNIT EDGES, TYP.

SEE TIEDOWN STRAP SCHEDULE FOR REQUIRED NUMBER OF STRAPS PER UNIT

(2) #14 SAE GR 2 MIN. SMS WITH WASHERS AT EACH STRAP END TO UNDERSIDE OF I-BEAM OR SIDE OF 'CAP' ANGLE

3/4 TIE-DOWN STRAP DETAIL**
NTS *SHALL BE USED **IN COMBINATION** WITH ANY A/C UNIT TIE-DOWN DETAIL ON THIS SHEET

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0117.04
Approval Date 04/18/2024
By
Miami-Dade Product Control



NOTE: FOR THIS WOOD BLOCKING DETAIL, MAXIMUM ALLOWABLE PRESSURES LISTED IN DESIGN SCHEDULES SHALL BE MULTIPLIED BY **0.75**

4/4 ALT. BASEPLATE TO WOOD TRUSS ATTACHMENT (2X10 WOOD BLOCKING)
SCALE: NTS WOOD (G=0.55 MIN.)

RICHARD HEET, P.E. FE# 86488 CA# 9885 MARCH 7, 2024 FL

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Miami Tech, Inc.
3611 NW 74th St
Miami, FL 33147
(305) 693-7054
Aluminum Stand for Mechanical Units
Miami-Dade Product Control Approval (NOA)
Florida Building Code

DATE	DESCRIPTION
8/20/2024	

REMARKS
BID SET

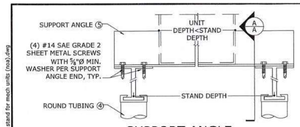
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SCALE: NTS UNLESS NOTED

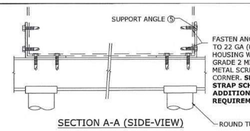
23-63451

4/5

3/7/2024 10:27 AM ESCN C:\Users\rickh\engineering express\production - documents\projects\23-23-63451 aluminum stand for mechanical units\sheets\23-23-63451 aluminum stand for mechanical units (nocb).dwg



1A/5 SUPPORT ANGLE ATTACHMENT DETAIL
NTS



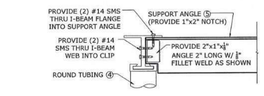
SECTION A-A (SIDE-VIEW)

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 24-0117.04
Approval Date 04/18/2024
By
Miami-Dade Product Control

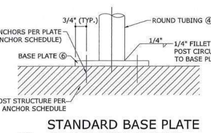
RICHARD HEET, P.E. FE# 86488 CA# 9885 MARCH 7, 2024 FL

ANCHOR SCHEDULE

ANCHOR TYPE	HOST STRUCTURE	ANCHOR DESCRIPTION
1	STEEL	3/8"Ø SAE GRADE 5 SHEET METAL SCREWS WITH 1"Ø MIN. WASHER, TO STRUCTURAL A36 STEEL MEMBERS (⅝" MIN HOST THICKNESS)
2A	CONCRETE (3.0 KSI MIN)	3/8"Ø DEWALT CARBON STEEL SCREWBOLT CONCRETE ANCHOR WITH 1"Ø MIN. WASHER, 2-1/2" EMBEDMENT & 6" MIN EDGE DISTANCE. SEE BASE PLATE COMPONENT #6 (ON SHEET 2) FOR TYPICAL ANCHOR SPACING.
2B	CONCRETE (5.0 KSI MIN)	1/2"Ø DEWALT MINI-DROPIN ANCHOR WITH 1.0" EMBEDMENT & 4" MIN EDGE DISTANCE, SEE BASE PLATE COMPONENT #6 (ON SHEET 2) FOR TYPICAL ANCHOR SPACING. **NOTE: MAX ALLOWABLE PRESSURES LISTED IN THE STAND DESIGN SCHEDULE SHALL BE MULTIPLIED BY 0.5 WHEN USING THIS ANCHOR OPTION**
3	WOOD*	***SEE DETAIL 4/4 ON SITE SPECIFIC ENGINEERING IS REQUIRED**
4	STEEL	3/8"Ø SAE GRADE 5 THRUBOLT WITH 1"Ø MIN. WASHER & NUT, TO STRUCTURAL A36 STEEL MEMBERS (⅝" MIN HOST THICKNESS)



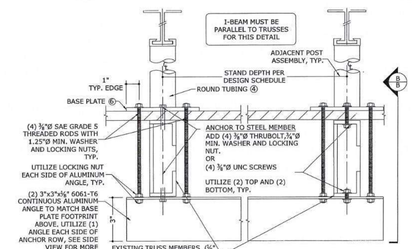
1B/5 SUPPORT ANGLE ATTACHMENT DETAIL
NTS



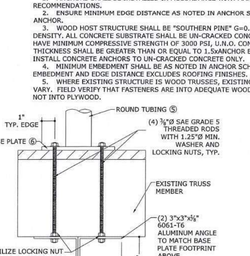
3/5 STANDARD BASE PLATE ATTACHMENT DETAIL
NTS

ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
3. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. ALL CONCRETE SUBSTRATE SHALL BE UN-CRACKED CONCRETE AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, U.N.O. CONCRETE SUBSTRATE THICKNESS SHALL BE GREATER THAN OR EQUAL TO 1.5xANCHOR EMBEDMENT. INSTALL CONCRETE ANCHORS TO UN-CRACKED CONCRETE ONLY.
4. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.
5. WHERE EXISTING STRUCTURE IS WOOD TRUSSES, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD TRUSS MEMBERS, NOT INTO PLYWOOD.



4/5 ALTERNATE BASE PLATE ATTACHMENT AT STEEL TRUSS MEMBERS
NTS DETAIL



SECTION B-B (SIDE-VIEW)

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Miami, FL 33147
(305) 693-7054
Aluminum Stand for Mechanical Units
Miami-Dade Product Control Approval (NOA)
Florida Building Code

DATE	DESCRIPTION
8/20/2024	

REMARKS
BID SET

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23-63451

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Consultant:

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Stefano De Luca
Florida Registered Architect
AR0014815



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UNIT 1000
WESTLAKE, FL 33470

Issue Record:

	PERMIT SET
	BID SET
	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:

PRODUCT APPROVAL - CONDENSER STAND

A821

1/A821 **CONDENSER STAND NOA #24-0117.04**
N.T.S.

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

CaptiveAire Systems, Inc.
4641 Paragon Park Road
Raleigh, NC 27616

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series DU, NCA, DR, DD, DDAR and DMUA Aluminum Rooftop Fans

APPROVAL DOCUMENT: Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 13 of 13, dated 08/25/2008, with revision 9 dated 07/14/2023, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 03/07/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, one of the following manufacturing locations: Youngsville, NC; Muskogee, OK; Redding, CA; West Union, IA; Bedford, PA; Groveland, FL; Indianapolis, IN, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: 1) These fans cannot be installed within the ridge area FBC 1523.6.5.2.13.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **renews and revises NOA # 21-0318.09** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

03/27/24

NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS ***"Submitted under NOA # 14-0722.16"***
1. Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 12 of 12, dated 08/25/2008, with revision **5** dated 05/06/2015, prepared by CaptiveAire Systems, Inc, signed and sealed by L. David Rice, P.E.

B. TESTS ***"Submitted under NOA # 14-0722.16"***
1. Test reports on Uniform Static Air Pressure Test, loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of Centrifugal Upblast Roof Mounted Exhaust Fans (Model NCA36FA), prepared by Intertek/Architectural Testing, Inc., Test Report No. **E6374.01-109-18**, dated 04/16/2015, signed and sealed by Michael D. Stremmel, P.E.
2. Test reports on Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of Centrifugal Downblast Roof Mounted Exhaust Fans (Model DD36FA), prepared by Intertek/Architectural Testing, Inc., Test Report No. **E6373.01-109-18**, dated 04/16/2015, signed and sealed by Michael D. Stremmel, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Motorized Exhaust Vent (Model DU10), prepared by Architectural Testing, Inc., Test Report No. **E1562.01-109-18**, dated 11/13/2014, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA # 08-1124.09"
4. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series/Model HRE-24, high velocity roof fan, BI-36CARM, roof mounted exhaust fan and A5-925, modular down discharge blower, prepared by Architectural Testing, Inc., Test Report No. **83747.01-109-18**, dated 10/15/2008, with Revision 1 dated 01/06/2009, signed and sealed by Michael D. Stremmel, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS ***"Submitted under NOA # 14-0722.16"***
1. Anchor verification calculations prepared by Rice Engineering, dated 08/07/2015, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 14-0110.04"
2. Anchor verification calculations, prepared by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 08-1124.09"
3. Anchor verification calculations, prepared by Rice Engineering, dated 11/12/2008, with revision dated 01/20/2008, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS ***"Submitted under NOA # 14-0722.16"***
1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 08/07/2015, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 13-0219.01"
2. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.
3. Statement letter of no financial interest issued by Rice Engineering, dated 07/04/2012, signed and sealed by L. David Rice, P.E.

2. Evidence submitted under NOA # 18-0118.09

A. DRAWINGS
1. Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 12 of 12, dated 08/25/2008, with revision **7** dated 11/27/2017, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS
1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0118.09 (Continued)

C. CALCULATIONS
1. Anchor verification calculations prepared by Rice Engineering, dated 12/15/2017, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to the 6th edition (2017) FBC, dated December 12, 2017, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

3. Evidence submitted under NOA # 19-0130.11

A. DRAWINGS
1. Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 12 of 12, dated 08/25/2008, with revision **7** dated 11/27/2017, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E. on 01/11/2019.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 19-0130.11 (Continued)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to the 6th edition (2017) FBC, dated 01/11/2019, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

4. Evidence submitted under previous approval

A. DRAWINGS
1. Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 13 of 13, dated 08/25/2008, with revision 8 dated 03/26/2019, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 06/06/2019.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Evidence submitted under NOA # 21-0318.09 and new

A. DRAWINGS
1. Drawing No. **EXHAUST**, titled "Upblast/ Downblast/ Curb", sheets 1 through 13 of 13, dated 08/25/2008, with revision 9 dated 07/14/2023, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 03/07/2024.

B. TESTS
1. None.

C. CALCULATIONS ***"Submitted under NOA # 21-0318.09"***
1. Anchor verification calculations prepared by Rice Engineering, dated 03/10/2021, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

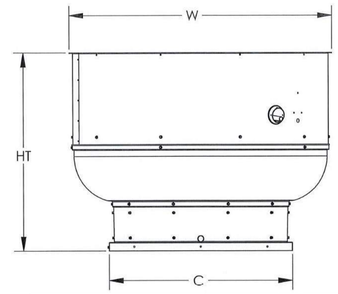
E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to the 8th Edition (2023) of the FBC, issued by Rice Engineering, dated 11/14/2023, signed and sealed by Wayne K. Helmila, P.E.

"Submitted under NOA # 21-0318.09"
2. Statement letter of code conformance to the 7th Edition (2020) of the FBC, dated March 10, 2021, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.05
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

Dimensional Data - Upblast Aluminum Fans



#	Description	Revised by	ECN#	Date
3	Added DU/DR Models	J Hess	2661	6/24/14
4	Increased Design Pressure +/- 150 PSF	WBG	2763	9/9/14
5	Added Curb Heights	JJH	2740	5/4/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 / Cracked Concrete Calcs	J Hess	2977	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Added Multiple Brands	CAG	3189	7/14/23

General Notes:

1. This approval is for the structural capacity and impact rating of the exterior housing only; it does not include any interior mechanism or electrical part.
2. These fans have not been wind tested for Wind Driven Rain Test per Florida Building code, TAS100 (A)-95.

FAN MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
DU10	14-1/2	17-3/4	19	30
DU12	18	22	19	40
DU25	25-1/4	25-1/2	21	50
DU30	25-1/4	25-1/2	21	50
DU33	25-1/4	25-1/2	21	50
DU50	27-1/4	28-7/8	21	55
DU75	30-1/2	31-7/8	24-3/4	60
DU85	30-1/2	31-7/8	24-3/4	60
DU180	33-3/4	39-3/8	28	190
DU200	33-3/4	38-7/8	28	195
DU240	37-1/2	43 3/8	33	270
DU300	40	52-3/4	40	410
DU360	45-9/16	63-7/16	44	470
NCA08	25-1/4	27-1/4	21	105
NCA10	27-1/4	30-1/4	21	120
NCA14	30-1/2	33-3/4	24-3/4	140
NCA16	33-3/4	39-3/8	28	190
NCA18	33-3/4	38-7/8	28	195
NCA24	37-1/2	43 3/8	33	270
NCA30	40	52-3/4	40	410
NCA36	45-9/16	63-7/16	44	470

SEE PAGE 13 FOR ALTERNATE BRANDS

EF-1

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DESIGN PRESSURE: +150.0 / -150.0 PSF
LARGE MISSILE IMPACT RESISTANT

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

STATE OF FLORIDA — WAYNE K. HELMILA — LICENSE — No. 59092 — PROFESSIONAL ENGINEER

MAR 0 7 2024

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: UPBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST01	
	Sheet: 1 of 13	

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.9251 | F 919.227.5994

CAPTIVEAIRE THE PERFORMANCE COMPANY

WIND PRESSURE:
DESIGN = + 150.0 / - 150.0 PSF
CALCULATED = + 15.0 / - 59.0 PSF (ZONE 1)

FOR EF-1 SEE SHEET A830
FOR EF-2 SEE SHEET A831

1 A830 **EXHAUST FAN NOA #24-0104.05**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA — STEFANO De LUCA — AR0014815 — REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

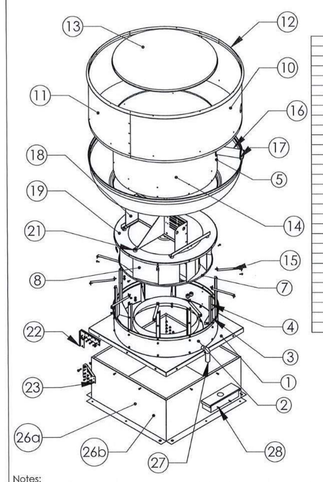
Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents: PRODUCT APPROVAL - EF

A830

Exploded Material View - Upblast Aluminum Fans



Item Number	Description	Material
1	Base	16 Ga Galvanized G90
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized G90
4	Vertical Support	12 Ga Galvanized G90
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top (Not Shown)	14 Ga Galvanized G90
7	Wheel Blade Bottom	.100 Aluminum 3003-0
8	Wheel Primary Blade	.125 Aluminum 5052-H32
9	Wheel Secondary Blade (Not Shown)	.064 Aluminum 5052-H32
10	Top Skirt A	.080 Aluminum 1100-H14
11	Top Skirt B	.080 Aluminum 1100-H14
12	Angle Ring	1/8 X 1 X 1 Aluminum Angle Ring
13	Hood	.064 Aluminum 1100-H14
14	Shaft Wrapper	.080 Aluminum 1100-H14
15	Horizontal Braces	.125 Aluminum 5052-H32
16	Cooling Tube	.080 Aluminum Extrusion
17	Cooling Tube Grommet	Black Rubber
18	Motor Plate Assembly	10 Ga Galvanized G90
19	Top Plate	14 Ga Galvanized G90
20	Shaft (Not Shown)	1018 Steel
21	Vibration Isolators	Black Rubber
22	Fan Plate Left (Hinge Kit)	10 Ga Galvanized G90
23	Curb Plate Left (Hinge Kit)	10 Ga Galvanized G90
24	Fan Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized G90
25	Curb Plate Right (Hinge Kit Not Shown)	10 Ga Galvanized G90
26a	Curb (Up to 20" Height)	20 Ga. Steel
26b	Curb (Above 20", Max of 42" Height)	18 Ga. Steel
27	Grease Down Spout	Aluminum Colored Vinyl
28	Grease Box	18 Ga Galvanized G90

Revision History				
#	Description	Revised by	ECN#	Date
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Changed 16GA Curb to 18GA	JJH	--	3/8/21
10	Added Multiple Brands	CAG	3189	7/14/23

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

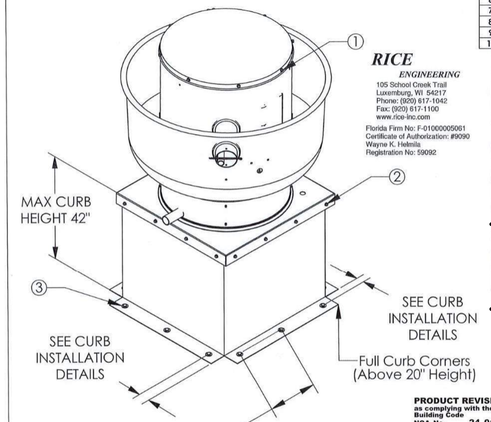
Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: UPBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST02	
	Sheet: 2 of 13	

CAPTIVEAIRE THE PERFORMANCE COMPANY

Installation - Upblast Aluminum Fans



Revision History				
#	Description	Revised by	ECN#	Date
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Changed to Full Curb Corners	JJH	--	3/8/21
10	Added Multiple Brands	CAG	3189	7/14/23

1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.

2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (A307 OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE A ON PAGE 7 THRU 12 FOR QTY).

3. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE PAGES 7 THRU 12 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: UPBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST03	
	Sheet: 3 of 13	

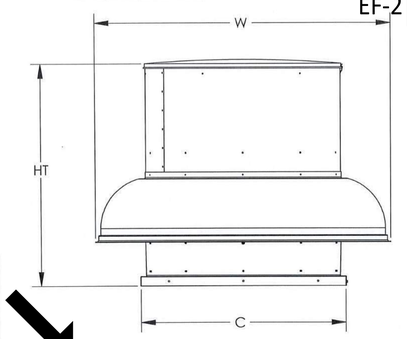
CAPTIVEAIRE THE PERFORMANCE COMPANY

Dimensional Data - Downblast Aluminum Fans

General Notes:

1. This approval is for the structural capacity and impact rating of the exterior housing only; it does not include any interior mechanism or electrical part.
2. These fans have not been wind tested for Wind Driven Rain Test per Florida Building code, TAS100 (A)-95.

EF-2



DESIGN PRESSURE: +150.0 / -150.0 PSF
LARGE MISSILE IMPACT RESISTANT

FAN MODEL	HT (in)	W (in)	C (in)	WEIGHT (lbs)
DR10	14 1/2	20 3/4	19	30
DR12	16 1/4	23 3/4	19	35
DR25	15 1/8	29 1/4	22	45
DR30	19/1/8	26 1/4	21	45
DR33	19 1/8	26 1/4	21	45
DR50	21 3/4	29 3/4	21	50
DR75	23 3/8	33 1/4	24 3/4	60
DR85	23 3/8	33 1/4	24 3/4	60
DR180	32 3/4	38 1/4	28	190
DR200	32 3/4	38 1/4	28	195
DR240	37 3/4	42 1/2	33	215
DR300	40	52	40	380
DR360	45 9/16	63 7/16	44	470
DD7	25 1/2	26 1/4	21	90
DD8	25 1/2	26 1/4	21	90
DD9	25 1/2	26 1/4	21	90
DD11	25 1/2	26 1/4	21	105
DD13	27 1/4	29 5/8	21	105
DD15	30 5/8	33 1/4	24 3/4	130
DD18	32 3/4	38 1/4	28	190
DD20	32 3/4	38 1/4	28	195
DD24	37 3/4	42 1/2	33	215
DD30	40	52	40	380
DD36	45 9/16	63 7/16	44	470
DDAR10	9 3/4	18 5/16	19	24
DDAR12	10 1/4	20 5/16	19	32
DDAR14	12 5/8	27 5/16	21	45
DDAR18	14 3/8	33 9/16	26	67
DMUA14	12 5/8	27 5/16	21	45
DMUA18	14 3/8	33 9/16	26	67

SEE PAGE 13 FOR ALTERNATE BRANDS

Revision History				
#	Description	Revised by	ECN#	Date
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Changed 16GA Curb to 18GA	JJH	--	3/8/21
10	Added Multiple Brands	CAG	3189	7/14/23

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www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

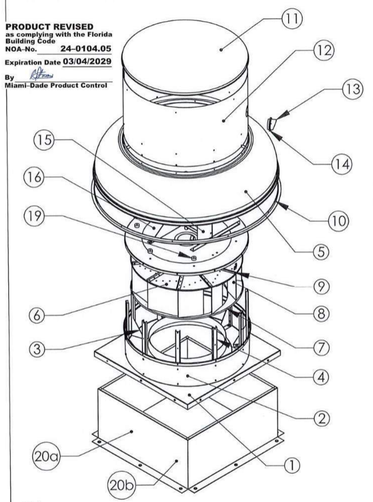
CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: DOWNBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST04	
	Sheet: 4 of 13	

CAPTIVEAIRE THE PERFORMANCE COMPANY

Exploded Material View - Downblast Aluminum Fans

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control



Item Number	Description Of Part	Material
1	Base	16 Ga Galvanized G90
2	Baffle	.080 Aluminum 1100-0
3	Gusset	12 Ga Galvanized G90
4	Vertical Support	12 Ga Galvanized G90
5	Bottom Skirt	.090 Aluminum 1100-0
6	Wheel Blade Top	14 Ga Galvanized G90
7	Wheel Blade Bottom	.100 aluminum 3003-0
8	Wheel Primary Blade	.125 Aluminum 5052-H32
9	Wheel Secondary Blade	.064 Aluminum 5052-H32
10	Ring	1/8 X 1 X 1 Aluminum Angle Ring
11	Hood	.064 Aluminum 1100-H14
12	Shaft Wrapper	.080 Aluminum 1100-H14
13	Cooling Tube	.080 Aluminum Extrusion
14	Cooling Tube Grommet	Black Rubber
15	Motor Plate Assembly	10 Ga Galvanized G90
16	Top Plate	14 Ga Galvanized G90
17	Shaft (Not Shown)	1018 Steel
18	Bearings (Not Sown)	Case Steel/ Steel Ball
19	Vibration Isolators	Black Rubber
20a	Curb (Up to 20" Height)	20 Ga. Steel
20b	Curb (Above 20", Max of 42" Height)	18 Ga. Steel

Revision History				
#	Description	Revised by	ECN#	Date
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Changed 16GA Curb to 18GA	JJH	--	3/8/21
10	Added Multiple Brands	CAG	3189	7/14/23

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024

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Wayne K. Helmila
Registration No: 59092

Notes:
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3. Tested under Miami-Dade County Notification number ATI 08033.

CaptiveAire, Inc. commercial kitchen ventilation
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Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: DOWNBLAST	
	Drawn By: N Perry	
	Drawing Number: EXHAUST05	
	Sheet: 5 of 13	

CAPTIVEAIRE THE PERFORMANCE COMPANY

1 A831 **EXHAUST FAN NOA #24-0104.05**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

	PERMIT SET
	BID SET
	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

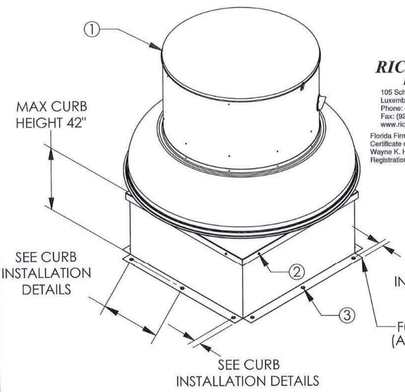
Project No.
CMG2321

Contents:
PRODUCT APPROVAL - EF

A831

Installation - Downblast Aluminum Fans

Revision History				
#	Description	Revised by	ECN#	Date
4	Increased Design Pressure +/- 150 PSF	WBG	2753	9/9/14
5	Added Curb Heights	JJH	2740	5/6/15
6	Changed Notes On Curb Installation	N Perry	2846	10/22/15
7	FBC 2017 /Cracked Concrete Calcs	J Hess	2997	11/27/17
8	Added Alternate Brand to Drawings	JJH	3061	3/26/19
9	Changed to Full Curb Corners	JJH	--	3/8/21
10	Added Multiple Brands	CAG	3189	7/14/23



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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.

2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (A307 OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE A ON PAGE 7 THRU 12 FOR QTY).

3. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE PAGES 7 THRU 12 FOR FASTENER TYPE. USE TABLE B FOR FASTENER QTY.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024

Notes:
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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: XX±.05 XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: DOWNBLAST		
	Drawn By: N Perry		
	Drawing Number: EXHAUST06		
	Sheet: 6 of 13		

Miami-Dade County - Roof Curb Installation Guide For Wood Substrate

CaptiveAire, Inc. commercial kitchen ventilation
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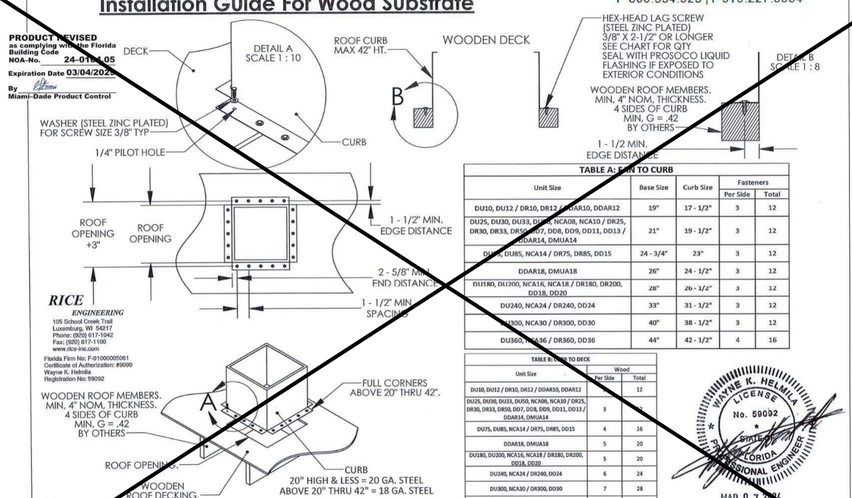


TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

TABLE B: CURB TO DECK

Unit Size	Wood	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	7	28
DU360, NCA36 / DR360, DD36	10	40

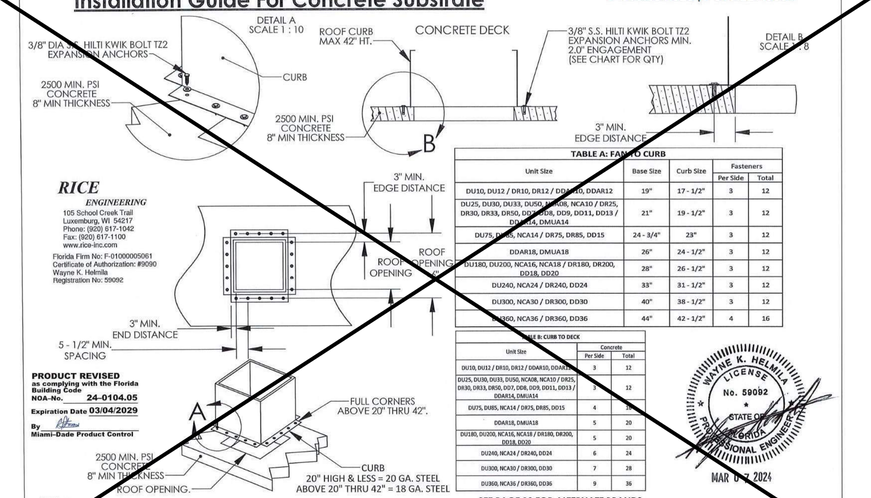
SEE PAGE 13 FOR ALTERNATE BRANDS

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2. Tested for areas including high velocity hurricane zones.
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Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: XX±.05 XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST07		
	Sheet: 7 of 13		

Miami-Dade County - Roof Curb Installation Guide For Concrete Substrate

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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

TABLE B: CURB TO DECK

Unit Size	Concrete	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	7	28
DU360, NCA36 / DR360, DD36	9	36

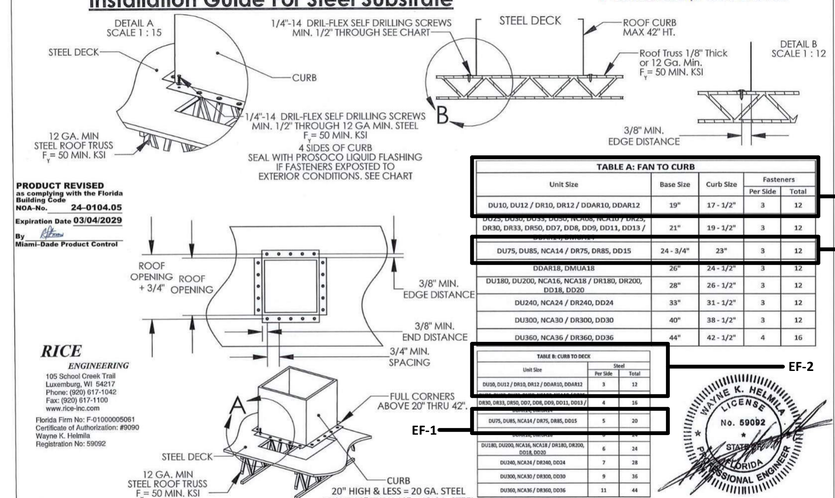
SEE PAGE 13 FOR ALTERNATE BRANDS

Notes:
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3. Tested under Miami-Dade County Notification number ATI 08033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: XX±.05 XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST08		
	Sheet: 8 of 13		

Miami-Dade County - Roof Curb Installation Guide For Steel Substrate

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Wayne K. Helmila
Registration No: 59092

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners	
			Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	40"	38 - 1/2"	3	12
DU360, NCA36 / DR360, DD36	44"	42 - 1/2"	4	16

EF-2
EF-1

TABLE B: CURB TO DECK

Unit Size	Steel	
	Per Side	Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	4	16
DU75, DU85, NCA14 / DR75, DR85, DD15	5	20
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	6	24
DU240, NCA24 / DR240, DD24	7	28
DU300, NCA30 / DR300, DD30	9	36
DU360, NCA36 / DR360, DD36	11	44

EF-2
EF-1

SEE PAGE 13 FOR ALTERNATE BRANDS

Notes:
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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: XX±.05 XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST09		
	Sheet: 9 of 13		

1 / A832 **EXHAUST FAN NOA #24-0104.05**
N.T.S.

Consultant:

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Florida Registered Architect
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UNIT 1000
WESTLAKE, FL 33470

Issue Record:

	PERMIT SET
	BID SET
	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - EF

A832

Miami-Dade County - Wall Curb
Installation Guide For Wood Construction

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
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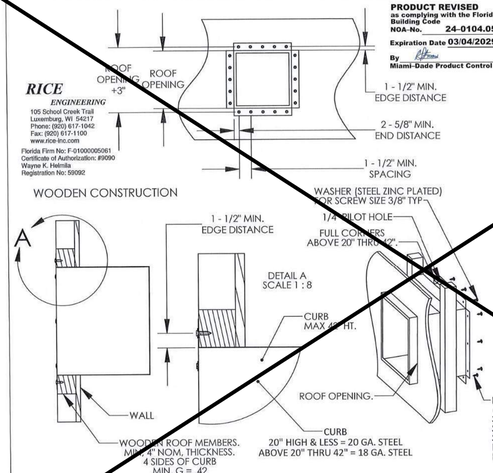


TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners Per Side	Fasteners Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL

Unit Size	Wood Per Side	Wood Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

SEE PAGE 13 FOR ALTERNATE BRANDS

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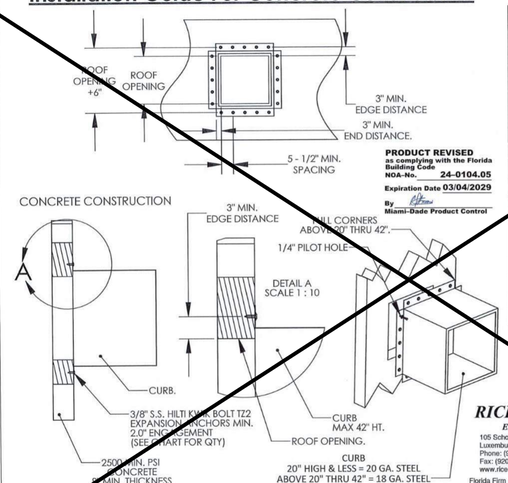
WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 0 7 2024

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 18033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST10		
	Sheet: 10 of 13		

Miami-Dade County - Wall Curb
Installation Guide For Concrete Construction

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners Per Side	Fasteners Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL

Unit Size	Concrete Per Side	Concrete Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	4	16
DDAR18, DMUA18	5	20
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	5	20
DU240, NCA24 / DR240, DD24	6	24
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

SEE PAGE 13 FOR ALTERNATE BRANDS

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 0 7 2024

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 18033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST11		
	Sheet: 11 of 13		

Miami-Dade County - Wall Curb
Installation Guide For Steel Construction

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

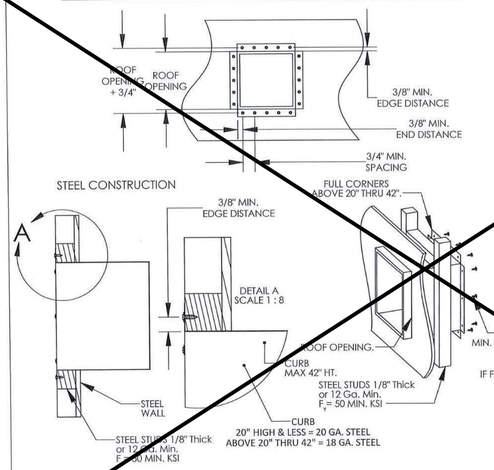


TABLE A: FAN TO CURB

Unit Size	Base Size	Curb Size	Fasteners Per Side	Fasteners Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	19"	17 - 1/2"	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	21"	19 - 1/2"	3	12
DU75, DU85, NCA14 / DR75, DR85, DD15	24 - 3/4"	23"	3	12
DDAR18, DMUA18	26"	24 - 1/2"	3	12
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	28"	26 - 1/2"	3	12
DU240, NCA24 / DR240, DD24	33"	31 - 1/2"	3	12
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT			
DU360, NCA36 / DR360, DD36				

TABLE B: CURB TO WALL

Unit Size	Steel Per Side	Steel Total
DU10, DU12 / DR10, DR12 / DDAR10, DDAR12	3	12
DU25, DU30, DU33, DU50, NCA08, NCA10 / DR25, DR30, DR33, DR50, DD7, DD8, DD9, DD11, DD13 / DDAR14, DMUA14	4	16
DU75, DU85, NCA14 / DR75, DR85, DD15	5	20
DDAR18, DMUA18	6	24
DU180, DU200, NCA16, NCA18 / DR180, DR200, DD18, DD20	6	24
DU240, NCA24 / DR240, DD24	7	28
DU300, NCA30 / DR300, DD30	DO NOT WALL MOUNT	
DU360, NCA36 / DR360, DD36		

SEE PAGE 13 FOR ALTERNATE BRANDS

1/4" ø DRIL-FLEX SELF DRILLING SCREWS MIN. 1/2" THROUGH 12 GA MIN. STEEL. F_y = 50 MIN. KSI
SIDES OF CURB
SEAL WITH PROSOCO LIQUID IF FASTENERS EXPOSED TO EXTERIOR CONDITIONS

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 0 7 2024

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 18033.

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB		
	Drawn By: N Perry		
	Drawing Number: EXHAUST12		
	Sheet: 12 of 13		

ALTERNATE BRANDS

UPBLAST ALUMINUM FANS CAS FAN MODEL	DOWNBLAST ALUMINUM FANS CAS FAN MODEL
DU10	DR10
DU12	DR12
DU25	DR25
DU30	DR30
DU33	DR33
DU50	DR50
DU75	DR75
DU85	DR85
DU180	DR180
DU200	DR200
DU240	DR240
DU300	DR300
DU360	DR360
NCA08	DD7
NCA10	DD8
NCA16	DD11
NCA18	DD13
NCA24	DD15
NCA30	DD18
NCA36	DD20
N/A	DD24
N/A	DD30
N/A	DD36
N/A	DDDAR10
N/A	DDDAR12
N/A	DDDAR14
N/A	DDDAR18
N/A	DMUA14
N/A	DMUA18

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MAR 0 7 2024

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 24-0104.05
Expiration Date 03/04/2029
By Miami-Dade Product Control

NOTE: THE DETAILED UNITS CAN BE LISTED UNDER THE FOLLOWING ALTERNATE BRANDS: ADVANCED HOOD SYSTEMS (AH-), AEROLATOR (AR-), AQUAMATIC (AM), ECON AIR (EA) FLOAIRE (H), GREASEMASTER (GM), K-TECH (K), LDI (LA-), RUPP AIR (RA), STRATOVENT (SV-), SUNAIR (SA-), THERMOTEK (TH), AND VENTILATION DIRECT (VX).

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A	Drawing Name: ALTERNATE BRANDS		
	Drawn By: CAG		
	Drawing Number: EXHAUST13		
	Sheet: 13 of 13		

1 / A833 **EXHAUST FAN NOA #24-0104.05**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

	PERMIT SET
	BID SET
	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - EF

A833

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

CaptiveAire Systems, Inc.
4641 Paragon Park Road
Raleigh, NC 27616

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Utility Set Exhaust and A Series Supply Steel Rooftop Fans

APPROVAL DOCUMENT: Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 30 of 30, dated 08/25/2008, with revision 7 dated 07/14/2023, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 03/07/2024, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, one of the following manufacturing locations: Youngsville, NC; Muskogee, OK; Redding, CA; West Union, IA; Bedford, PA; Groveland, FL; Indianapolis, IN, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: These fans cannot be installed within the ridge area, FBC 1523.6.5.2.13.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **renews and revises NOA # 21-0318.10** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

03/27/24

NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024
Page 1

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS ***"Submitted under NOA # 16-0407.02"***
1. Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 16 of 16, dated 08/25/2008, with revision **4** dated 10/14/2013, prepared by CaptiveAire Systems, Inc., signed and sealed by L. David Rice, P.E. on 03/22/2016.

B. TESTS ***"Submitted under NOA # 14-0317.04"***
1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series/Model USBI 11and USBI 36 roof mounted exhaust fans, prepared by Architectural Testing, Inc., Test Report No. **D2865.01-109-18**, dated 12/12/2013, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA No. 12-0724.02"
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series/Model CASRE roof mounted exhaust fan, prepared by Architectural Testing, Inc., Test Report No. **B9460.01-109-18**, dated 05/31/2012, signed and sealed by Michael D. Stremmel, P.E.

"Submitted under NOA No. 08-1124.08"
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series/Model HRE-24, high velocity roof fan, BI-36CARM, roof mounted exhaust fan and AS-925, modular down discharge blower, prepared by Architectural Testing, Inc., Test Report No. **83748.01-109-18**, dated 10/07/2008, with Revision 1 dated 01/06/2009, signed and sealed by Michael D. Stremmel, P.E.

C. CALCULATIONS ***"Submitted under NOA # 14-0317.04"***
1. Anchor verification calculations prepared by Rice Engineering, dated 02/21/2014, signed and sealed by L. David Rice, P.E.

"Submitted under NOA No. 12-0724.02"
2. Anchor verification calculations prepared by Rice Engineering, dated 07/05/2012, signed and sealed by L. David Rice, P.E.

"Submitted under NOA No. 08-1124.08"
3. Anchor verification calculations, prepared by Rice Engineering, dated 11/12/2008, with revision dated 01/20/2008, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS ***"Submitted under NOA # 16-0407.02"***
1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 02/18/2016, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 14-0317.04"
2. Statement letters of code conformance to 2010 FBC and of no financial interest issued by Rice Engineering, dated 01/17/2014, signed and sealed by L. David Rice, P.E.

"Submitted under NOA No. 08-1124.08"
3. Laboratory compliance letter issued by Architectural Testing, Inc., for Test Reports No. **83748.01-109-18**, dated 10/08/2008, signed and sealed by Michael D. Stremmel, P.E.

2. Evidence submitted under NOA # 18-0118.11

A. DRAWINGS
1. Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 21 of 21, dated 08/25/2008, with revision **5** dated 11/29/2017, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS
1. None.

C. CALCULATIONS
1. Anchor verification calculations prepared by Rice Engineering, dated 12/12/2017, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to 6th edition (2017) FBC, dated 12/12/2017, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA #19-0130.12

A. DRAWINGS
1. Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 21 of 21, dated 08/25/2008, with revision 5 dated 11/29/2017, prepared by CaptiveAire Systems, Inc., signed and sealed by Wayne K. Helmila, P.E. on 01/11/2019.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to 6th edition (2017) FBC, dated 01/11/2019, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under previous approval

A. DRAWINGS
1. Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 22 of 22, dated 08/25/2008, with revision 6 dated 03/26/2019, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 06/06/2019.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

CaptiveAire Systems, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Evidence submitted under NOA # 21-0318.10 and new

A. DRAWINGS
1. Drawing No. **NOA2**, titled "Steel Utility Set Exhaust and A Series Steel Supply Fans", sheets 1 through 30 of 30, dated 08/25/2008, with revision 7 dated 07/14/2023, prepared by CaptiveAire Systems, Inc, signed and sealed by Wayne K. Helmila, P.E. on 03/07/2024.

B. TESTS
1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of A5-36D, CASRE-24DD, and USBI-36DD Ventilators, prepared by Intertek, Test Report No. **P7484.01-109-18**, dated 08/25/2023, revised on 09/15/2023, signed and sealed by Tanya A. Dolby, P.E.

C. CALCULATIONS
1. Anchor verification calculations, prepared by Rice Engineering, dated 11/21/2023, signed and sealed by Wayne K. Helmila, P.E.
2. Anchor verification calculations, prepared by Rice Engineering, dated 03/10/2021, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of code conformance to the 8th Edition (2023) of the FBC , issued by Rice Engineering, dated 11/14/2023, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of code conformance to the 7th Edition (2020) of the FBC , issued by Rice Engineering, dated March 10, 2021, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0104.06
Expiration Date: March 4, 2029
Approval Date: April 4, 2024

Dimensional Data - A Series Steel Supply Fans

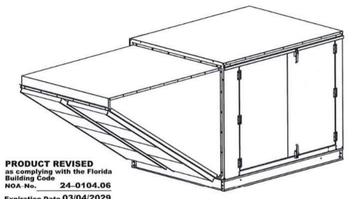
General Notes:

1. This approval is for the structural capacity and impact rating of the exterior housing only; it does not include any interior mechanism or electrical part.
2. These fans have not been wind tested for Wind Driven Rain Test per Florida Building code, TAS100 (A)-95.

Revision History			
#	Description	Revised by	ECN#	Date
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added RE Fan To NOA 2	N Perry	2152	4/27/12
4	Added USBI Fan To NOA 2	N Perry	2490	10/14/13
5	Updated Per FBC 2017	J Hess	2997	11/29/17
6	Added Alternate Brands to Drawings	JJH	3061	3/26/19
7	Updated Design Pressure Parameters	CAG	3189	7/14/23

HOUSING SIZE		A LENGTH (in)	B WIDTH (in)	C HEIGHT (in)	WEIGHT (lbs)
MODULAR	1	76 1/2	27 3/8	28	250
	2	93 3/4	37 3/8	33	425
	3	98 3/4	41 3/8	38	525
	4	140 9/16	48 7/16	46 1/8	945
	5	145 9/16	59 5/16	53 1/8	1330
DIRECT FIRED	1.D	118 3/4	27 3/8	28	595
	2.D	139	37 3/8	33	805
	3.D	139	41 3/8	38	975
	4.D	194 7/8	48 7/16	46 1/8	1635
	5.D	199 7/8	59 3/16	53 1/8	2160
ELECTRIC	1.E	118 3/4	27 3/8	28	550
	2.E	136	37 3/8	33	805
	3.E	139	41 3/8	38	975
	4.E	194 7/8	48 7/16	46 1/8	1665
	5.E	199 7/8	59 3/16	53 1/8	2170
INDIRECT	1.I	149 1/8	36 11/16	48 3/4	925
	2.I	172 3/8	52 11/16	52 3/4	1315
	3.I	210 7/8	52 11/16	54 3/8	1965
STANDARD	1	57 7/8	26	28	210
	2	69 1/4	36	35	290

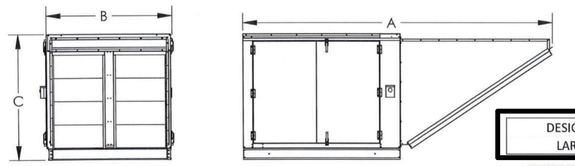
SEE PAGE 30 FOR ALTERNATE BRANDS



PRODUCT REVISED
as complying with the Florida Building Code
NOA No. 24-0104.06
Expiration Date 03/04/2029
By
Miami-Dade Product Control

WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAR 0 7 2024



Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification numbers ATI 08034 & 22081.

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DESIGN PRESSURE: +100.0 / -100.0 PSF
LARGE MISSILE IMPACT RESISTANT

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°
Weight: N/A lbs	Drawing Name: SUPPLY	
	Drawn By: N Perry	
	Drawing Number: NOA2-25	
	Sheet: 24 of 30	

CAPTIVEAIRE THE PERFORMANCE COMPANY

WIND PRESSURE:
DESIGN = + 100.0 / - 100.0 PSF
CALCULATED = + 25.0 / - 56.0 PSF (ZONE 2)

1 A840 **MAKEUP AIR UNIT NOA #24-0104.06**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
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Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL Checked: SDL

Project No.: CMG2321

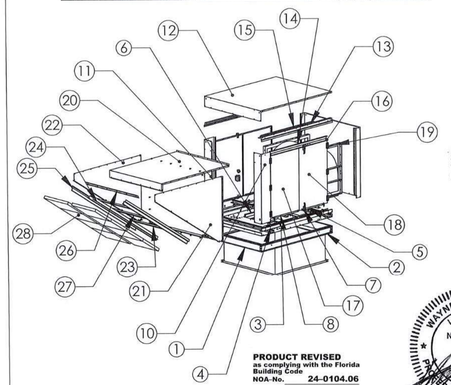
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PRODUCT APPROVAL - MAU-1

A840

Materials - A Series Steel Supply Fans

Revision History				
#	Description	Revised by	ECN#	Date
1	Changes Per Dade County	N Perry	1446	12/30/08
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added RE Fan To NOA 2	N Perry	2152	4/27/12
4	Added USBI Fan To NOA 2	N Perry	2490	10/14/13
5	Updated Per FBC 2017	J Hess	2997	11/29/17
6	Added Alternate Brands to Drawings	JJH	3061	3/26/19
7	Updated Design Pressure Parameters	CAG	3189	7/14/23



Item Number	Description	Material
1	End Flashing	18 Ga Galvanized G90
2	Main Rail	12 Ga Galvanized G90
3	Bottom	18 Ga Galvanized G90
4	Bottom Side	18 Ga Galvanized G90
5	Horizontal Support	10 Ga Galvanized G90
6	Discharge Cap	18 Ga Galvanized G90
7	Door Hook Back	18 Ga Galvanized G90
8	Door Hook Front	18 Ga Galvanized G90
9	Door Cup	18 Ga Galvanized G90
10	Right Front Post	18 Ga Galvanized G90
11	Left Front Post	18 Ga Galvanized G90
12	Lid	18 Ga Galvanized G90
13	Drip Rail	18 Ga Galvanized G90
14	Door Support	18 Ga Galvanized G90
15	Lid Support	14 Ga Galvanized G90
16	Back	18 Ga Galvanized G90
17	Door	18 Ga Galvanized G90
18	Back Door	18 Ga Galvanized G90
19	Blower	Steel
20	Awning Top	18 Ga Galvanized G90
21	Awning Right Side	18 Ga Galvanized G90
22	Awning Left Side	18 Ga Galvanized G90
23	Awning Bottom	18 Ga Galvanized G90
24	Awning Middle	18 Ga Galvanized G90
25	Awning Outside Rail	18 Ga Galvanized G90
26	Awning Rain Guard	18 Ga Galvanized G90
27	Awning Rail Spports	18 Ga Galvanized G90
28	20 X 25 X 2 Filters	Aluminum Mesh

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WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 0 7 2024

DESIGN PRESSURE: +100.0 / -100.0 PSF
LARGE MISSILE IMPACT RESISTANT

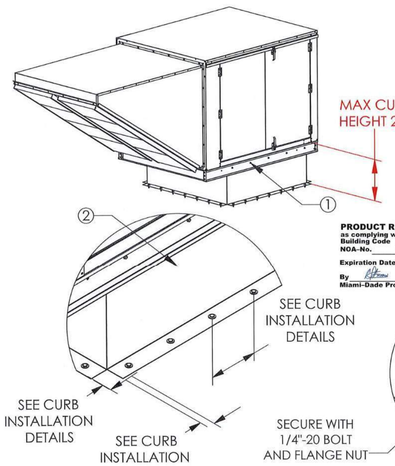
Notes:
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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification numbers ATI 08034 & 22081.

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: SUPPLY		
	Drawn By: N Perry		
	Drawing Number: NOA2-26		
	Sheet: 26 of 30		

Installation - A Series Steel Supply Fans

Revision History				
#	Description	Revised by	ECN#	Date
1	Changes Per Dade County	N Perry	1446	12/30/08
2	HRE Dim Changes	N Perry	2181	11/19/10
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4	Added USBI Fan To NOA 2	N Perry	2490	10/14/13
5	Updated Per FBC 2017	J Hess	2997	11/29/17
6	Added Alternate Brands to Drawings	JJH	3061	3/26/19
7	Updated Design Pressure Parameters	CAG	3189	7/14/23



1. SECURE FAN BASE TO TOP OF CURB USING 1/4"-14 X 1-1/2" ZINC PLATED STEEL SELF DRILLING SCREWS (A307 OR BETTER) THROUGH FAN RAILS. SEE PAGE 28 FOR QTY.

2. SECURE CURB TO ROOF FRAMING MEMBERS BY DRILLING 1/4" DIA PILOT HOLES IN CURB AT LOCATION SHOWN IN BOTTOM LEFT DIAGRAM. SEE PAGE 28 FOR FASTENER TYPE AND QTY.

3. SECURE DOOR HANDLES BY INSTALLING 1/4"-20 X 2" ZINC PLATED STEEL BOLT THROUGH EACH DOOR HANDLE. SECURE BOLT WITH 1/4"-20 ZINC PLATED FLANGE NUT. TIGHTEN WITH IMPACT WRENCH.

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WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER
MAR 0 7 2024

Notes:
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CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
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Material: N/A	Part Number: A5-36D	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: SUPPLY		
	Drawn By: N Perry		
	Drawing Number: NOA2-27		
	Sheet: 27 of 30		

Miami-Dade County - Roof Curb Installation Guide For Model A Series

Revision History				
#	Description	Revised by	ECN#	Date
2	HRE Dim Changes	N Perry	2181	11/19/10
3	Added RE Fan To NOA 2	N Perry	2152	4/27/12
4	Added USBI Fan To NOA 2	N Perry	2490	10/14/13
5	Updated Per FBC 2017	J Hess	2997	11/29/17
6	Added Alternate Brands to Drawings	JJH	3061	3/26/19
7	Changed T1 to T22 Anchor	JJH	---	3/8/21
8	Updated Design Pressure Parameters	CAG	3189	7/14/23

INSTALLATION FASTENER TYPES

Fastener	Fan To Curb	Wood (SG = 0.42 Min.)	Steel (12 Gauge Min.)	Concrete (2500 psi Min. Cracked Concrete)
	1/4"-14 x 1-1/2" Self Drilling Screw (A307 OR BETTER)	3/8" Dia. Zinc Plated Lag Bolt	1/4"-14 Dril-Flex Self Drilling Screw	3/8" Dia. SS Hilti Kwik Bolt TZ2 Expansion Anchor
Minimum Thread Penetration	N/A	2"	12 Gauge	2-1/2"
Minimum Edge Distance	N/A	1-1/2"	3/8"	3"
Minimum End Distance	N/A	2-5/8"	3/8"	4"
Minimum Spacing	N/A	1-1/2"	3/4"	6"

FASTENERS FOR WOOD & STEEL SUBSTRATES: SEAL WITH LIQUID PROSOCO FLASHING IF FASTENERS ARE EXPOSED TO EXTERIOR CONDITIONS. SEE NOTE 4.

INSTALLATION FASTENER QTY

Fan Model	Curb to Fan			Wood			Steel			Concrete		
	Long Side	Short Side	Total	Long Side	Short Side	Total	Long Side	Per Side	Total	Long Side	Short Side	Total
Modular 1	2	2	8	4	3	14	3	2	10	3	2	10
Modular 2	2	2	8	5	4	18	4	3	14	4	3	14
Modular 3	3	2	10	5	5	20	5	4	18	4	4	16
Modular 4	5	4	18	9	6	30	7	5	24	7	5	24
Modular 5	7	5	24	10	8	36	8	6	28	8	6	28
Direct Fired 1	5	2	14	8	3	22	6	2	16	6	2	16
Direct Fired 2	4	2	12	9	4	26	6	2	16	7	3	20
Direct Fired 3	5	2	14	10	5	30	7	3	20	8	4	24
Direct Fired 4	9	3	24	16	6	44	11	4	30	13	5	36
Direct Fired 5	10	4	28	18	8	52	11	5	32	14	6	40
Electric 1	5	2	14	8	3	22	6	2	16	6	2	16
Electric 2	4	2	12	9	4	26	6	2	16	8	3	22
Electric 3	5	2	14	10	5	30	7	3	20	8	4	24
Electric 4	9	3	24	16	6	44	10	4	28	13	5	36
Electric 5	10	4	28	18	8	52	11	5	32	14	6	40
Indirect 1	9	4	26	14	6	40	12	5	34	12	5	34
Indirect 2	9	5	28	15	8	46	10	5	30	11	6	34
Indirect 3	12	4	32	22	8	60	13	5	36	19	7	52
Standard 1	2	2	8	4	3	14	3	2	10	3	2	10
Standard 2	3	2	10	4	4	16	4	3	14	4	3	14

SEE PAGE 30 FOR ALTERNATE BRANDS

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MAR 0 7 2024

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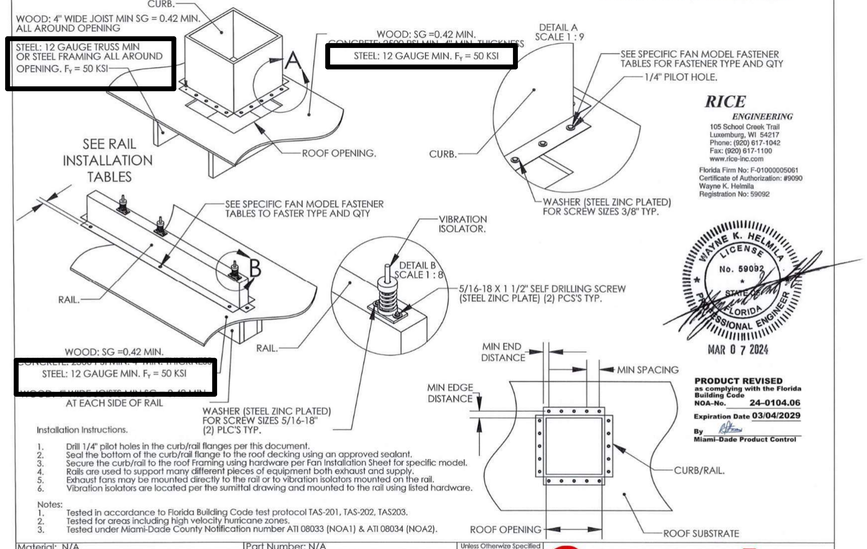
Notes:
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2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification numbers ATI 08034 & 22081.
4. Wood fastener penetration of 2" to be into wood framing below decking.

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: SUPPLY		
	Drawn By: N Perry		
	Drawing Number: NOA2-28		
	Sheet: 28 of 30		

Miami-Dade County - Curb / Rail Installation Guide

CaptiveAire, Inc. commercial kitchen ventilation
4641 Paragon Park Road, Raleigh, NC 27616
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Installation Instructions.
1. Drill 1/4" pilot holes in the curb/rail flanges per this document.
2. Seal the bottom of the curb/rail flange to the roof decking using an approved sealant.
3. Secure the curb/rail to the roof Framing using hardware per Fan Installation Sheet for specific model.
4. Rails are used to support many different pieces of equipment both exhaust and supply.
5. Exhaust fans may be mounted directly to the rail or to vibration isolators mounted on the rail.
6. Vibration isolators are located per the sumittal drawing and mounted to the rail using listed hardware.

Notes:
1. Tested in accordance to Florida Building Code test protocol TAS-201, TAS-202, TAS203.
2. Tested for areas including high velocity hurricane zones.
3. Tested under Miami-Dade County Notification number ATI 08033 (NOA1) & ATI 08034 (NOA2).

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4641 Paragon Park Road, Raleigh, NC 27616
P 800.334.925 | F 919.227.5994

Material: N/A	Part Number: N/A	Unless Otherwise Specified Dimensions are in Inches.	CAPTIVEAIRE THE PERFORMANCE COMPANY
Blank Size: N/A x N/A	MACOLA Number: N/A	Standard Tolerances are: Fractions: ±1/16 Decimal: .XX±.05 .XXX±.015 Angles: ±1°	
Weight: N/A lbs	Drawing Name: CURB/RAIL INSTALLATION		
	Drawn By: N Perry		
	Drawing Number: NOA2-29		
	Sheet: 29 of 30		

1 / A841 **MAKEUP AIR UNIT NOA #24-0104.06**
N.T.S.

Consultant:

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4501 Pierce Street
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Stefano De Luca
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AR0014815

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4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

03/08/2024	PERMIT SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:
PRODUCT APPROVAL - MAU-1

A841

ALTERNATE BRANDS

STEEL UTILITY SETS	A-SERIES STEEL SUPPLY FANS	
CAS FAN MODEL	CAS FAN MODEL	
HRE13	MODULAR	1
HRE16		2
HRE20		3
HRE24		4
RE13BD	DIRECT FIRED	5
RE13DD		3.D
RE15BD		2.D
RE15DD		3.D
RE18BD		4.D
RE18DD		5.D
RE20BD	ELECTRIC	1.E
RE20DD		2.E
RE24BD		3.E
RE24DD		4.E
BI30		5.E
BI12	INDIRECT	1.I
BI13		2.I
BI15		3.I
BI16	STANDARD	1
BI18		2
BI20	N/A	
BI22	N/A	
BI24	N/A	
BI27	N/A	
BI30	N/A	
BI33	N/A	
BI36	N/A	
CB10	N/A	
CB12	N/A	
CB15	N/A	
CB18	N/A	
CB20	N/A	
CB22	N/A	
CB24	N/A	
CB27	N/A	
CB30	N/A	
CB36	N/A	
USI137	N/A	
USI161	N/A	
USI200	N/A	
USI245	N/A	
USI270	N/A	
USI300	N/A	
USI330	N/A	
USI365	N/A	
USIB11	N/A	
USIB13	N/A	
USIB15	N/A	
USIB18	N/A	
USIB20	N/A	
USIB24	N/A	
USIB30	N/A	
USIB36	N/A	
USIBDUCTSLED11	N/A	
USIBPANSLED11	N/A	
USIBDUCTSLED13	N/A	
USIBPANSLED13	N/A	
USIBDUCTSLED15	N/A	
USIBPANSLED15	N/A	
USIBDUCTSLED18	N/A	
USIBPANSLED18	N/A	
USIBDUCTSLED20	N/A	
USIBPANSLED20	N/A	
USIBDUCTSLED24	N/A	
USIBPANSLED24	N/A	
USIBDUCTSLED30	N/A	
USIBPANSLED30	N/A	
USIBDUCTSLED36	N/A	
USIBPANSLED36	N/A	

NOTE: THE DETAILED UNITS CAN BE LISTED UNDER THE FOLLOWING ALTERNATE BRANDS: ADVANCED HOOD SYSTEMS (AH-), AEROLATOR (AR-), AQUAMTIC (AM-), ECON AIR (EA-), FLOAIRE (FA), GREASEMASTER (GM), K-TECH (K), LDI (LA-), RUPP AIR (RA), STRATOVENT (SV-), SUNAIR (SA-), THERMOTEK (T), AND VENTILATION DIRECT (VX).

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Weight: N/A	Drawing Name: ALTERNATE BRANDS	
	Drawn By: CAG	
	Drawing Number: NOA2-30	
	Sheet: 30 of 30	

CAPTIVEAIRE THE PERFORMANCE COMPANY

1 / A842 **MAKEUP AIR UNIT NOA #24-0104.06**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
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CMG2321

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A842

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

YKK AP AMERICA, INC

YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)

INSTALLATION NOTES:

1. SEE SHEET 10 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
2. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    - C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
    - D. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
    - E. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS.
    - F. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - TAS 201-94
    - TAS 202-94
    - TAS 203-94
    - AAMA 501-15
    - ASTM E1886-13a
    - ASTM E1996-17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEETS 3 & 4 FOR LMI AND SMI GLASS TYPES.
6. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5
7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 3 & 4 FOR GLAZING DETAILS.

INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2. SEE CHARTS ON SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
3. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 5 FOR STORE FRONT MULLION AND SHEETS 8 & 9 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
4. USING CHART ON SHEET 6, 7, & 7A SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
5. THE LOWEST VALUE RESULTING FROM STEP 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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12	COMPONENTS & BILL OF MATERIALS
13	COMPONENTS & BILL OF MATERIALS

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FAX: (954)594-4728
WEB: www.buildingdrops.com

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT) INSTALLATION & GENERAL NOTES

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

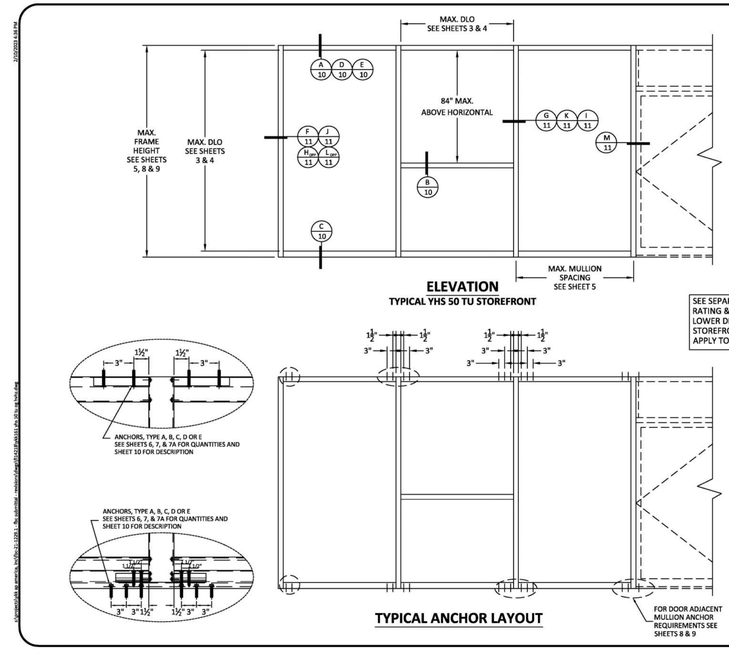
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.03.26 09:47:49 -04'00'

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FBPE CERT. OF AUTHORIZATION No. 29578

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DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK161
SHEET:	1

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ELEVATION
TYPICAL YHS 50 TU STOREFRONT

SEE SEPARATE DOOR APPROVAL FOR DOOR RATING & DETAILS.
LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT MULLION ANCHOR REQUIREMENTS SEE SHEETS 8 & 9

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SHEET: 2

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DRY GLAZED GLASS TYPES

LARGE & SMALL MISSILE IMPACT

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		INSUL. LAM. GLASS
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
27.5	54.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		70.0
69.5		68.4
27.5	60.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		70.0
69.5		70.0
27.5	66.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		63.4
69.5		63.5
27.5	72.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		63.4
69.5		57.9
27.5	78.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		63.4
69.5		57.9
27.5	84.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		63.4
69.5		57.9

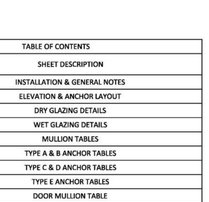
GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		INSUL. LAM. GLASS
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
27.5	90.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		63.4
69.5		63.5
27.5	96.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		70.0
69.5		70.0
27.5	102.375	70.0
33.5		70.0
39.5		70.0
45.5		70.0
51.5		70.0
57.5		70.0
63.5		70.0
69.5		70.0
27.5	108.375	50.0
33.5		50.0
39.5		50.0
45.5		50.0
51.5		50.0
57.5		50.0
63.5		50.0
69.5		50.0
27.5	114.375	50.0
33.5		50.0
39.5		50.0
45.5		50.0

DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH:
- NOMINAL PANEL WIDTH - 2.500"

DAYLITE OPENING HEIGHT:
- FRAME HEIGHT - 5.625"



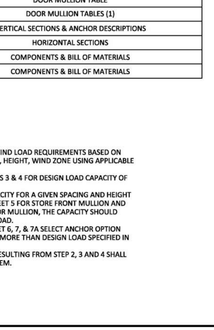
GLAZING DETAIL A
(DRY GLAZED)



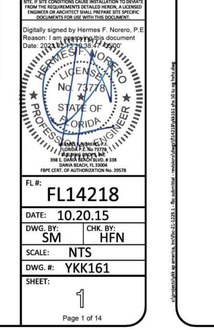
GLAZING DETAIL B
(DRY GLAZED)

DRY GLAZED GLASS TYPES

SMALL MISSILE IMPACT ONLY



GLAZING DETAIL C
(DRY GLAZED)



GLAZING DETAIL D
(DRY GLAZED)

* NOTE:
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

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TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT) DRY GLAZING DETAILS

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SHEET: 3

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WET GLAZED GLASS TYPES

LARGE & SMALL MISSILE IMPACT

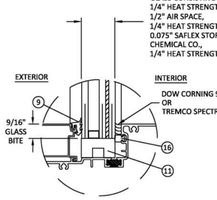
GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPE 'E'	GLASS TYPE 'F' & 'G'
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	44.2
63.5		70.0	48.7
69.5		68.4	41.8
27.5	60.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		70.0	39.6
69.5		70.0	43.4
27.5	66.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	35.8
69.5		63.5	35.9
27.5	72.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	35.8
69.5		57.9	
27.5	78.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	-
69.5		57.9	-
27.5	84.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	-
63.5		63.4	-
69.5		57.9	-

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPE 'E'	GLASS TYPE 'F' & 'G'
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	90.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	-
63.5		63.4	-
69.5		68.4	41.8
27.5	96.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	-
57.5		70.0	-
63.5		70.0	50.0
69.5		70.0	50.0
27.5	102.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	-
51.5		70.0	-
57.5		70.0	-
63.5		70.0	50.0
69.5		70.0	50.0
27.5	108.375	50.0	50.0
33.5		50.0	50.0
39.5		50.0	50.0
45.5		50.0	-
51.5		50.0	-
57.5		50.0	50.0
63.5		50.0	50.0
69.5		50.0	-
27.5	114.375	50.0	50.0
33.5		50.0	50.0
39.5		50.0	50.0
45.5		50.0	-

DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH:
- NOMINAL PANEL WIDTH - 2.500"

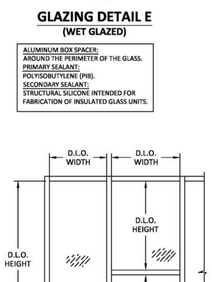
DAYLITE OPENING HEIGHT:
- FRAME HEIGHT - 5.625"

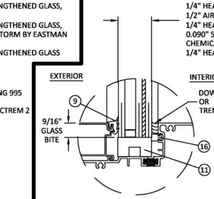
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3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



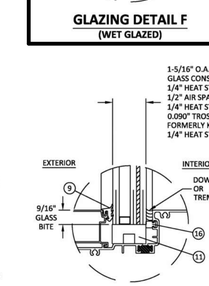
GLAZING DETAIL E
(WET GLAZED)

ALUMINUM BOX SPACER:
AROUND THE PERIMETER OF THE GLASS.
PRIMARY SEALANT:
POLYISOBUTYLENE (PIB).
SECONDARY SEALANT:
STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.





GLAZING DETAIL F
(WET GLAZED)



GLAZING DETAIL G
(WET GLAZED)

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SCALE: NTS
DWG. #: YKK161
SHEET: 4

Page 4 of 14

1 A860 **STOREFRONT PRODUCT APPROVAL - SHEET 1**
N.T.S.

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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CHIPOTLE · MEXICAN GRILL ·

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT

A860

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

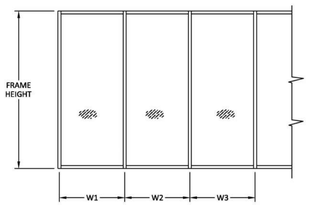
MULLION LOAD TABLES

JAMB/MULLION LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.	EXP. MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	60	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	66	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		50.0	70.0	70.0
30	72	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		50.0	70.0	70.0
72		50.0	70.0	70.0
30	78	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		50.0	70.0	70.0
66		50.0	70.0	70.0
72		--	70.0	70.0
30	84	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		50.0	70.0	70.0
66		--	70.0	70.0
72		--	70.0	70.0
30	90	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		50.0	70.0	70.0
60		--	70.0	70.0
66		--	70.0	70.0
72		--	70.0	70.0

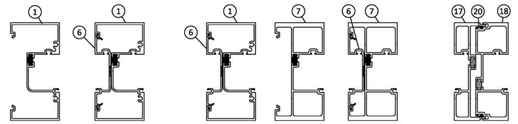
JAMB/MULLION LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.	EXP. MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	96	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		50.0	70.0	70.0
60		--	70.0	70.0
66		--	70.0	--
30	102	70.0	70.0	70.0
36		70.0	70.0	70.0
42		66.7	70.0	70.0
48		50.0	70.0	70.0
54		--	70.0	70.0
60		--	70.0	--
30	108	70.0	70.0	70.0
36		65.6	70.0	70.0
42		56.2	70.0	70.0
48		50.0	70.0	70.0
54		--	70.0	70.0
60		--	70.0	--
30	114	--	50.0	50.0
36		--	50.0	50.0
42		--	50.0	50.0
48		--	50.0	50.0
54		--	50.0	50.0
30	120	--	50.0	50.0
36		--	50.0	50.0
42		--	50.0	50.0
48		--	50.0	50.0
54		--	50.0	50.0



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)



STD. CONFIGURATION

HEAVY CONFIGURATION

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
MULLION TABLES

PREPARED BY: BUILDING DROPS, INC.
2661 S. Ocean Blvd. Suite 338
Dania Beach, FL 33004
PH#: (954)294-4728
FAX: (954)744-8758
Web: www.buildingdrops.com

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

JEROME F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jerome F. Norero, P.E.
Florida P.E. No. 73778
Building Drops, Inc.
FL Cert. of Authorization #: 8338
396 E. Dania Beach Blvd.
Dania Beach, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 5

ANCHOR TYPE 'A & B' TABLES

ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

NOMINAL DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
WIDTH (W)	FRAME HEIGHT	A2	B2
30	60	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	66	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	72	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	78	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	84	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0

ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

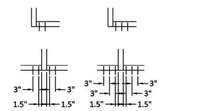
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	65.5	70.0
30	96	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	67.0	70.0
72		70.0	70.0	61.4	70.0
30	102	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	69.4	70.0
66		70.0	70.0	63.1	70.0
72		70.0	70.0	70.0	70.0
30	108	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	65.5	70.0
60		70.0	70.0	59.6	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0
30	114	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	69.0	70.0
48		70.0	70.0	62.1	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0
30	120	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	65.5	70.0
60		68.8	70.0	59.0	70.0

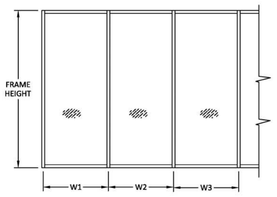
ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION





WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
TYPE A & B ANCHOR TABLES

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REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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JEROME F. NORERO
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PROFESSIONAL ENGINEER
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Dania Beach, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 6

ANCHOR TYPE 'C & D' TABLES

ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

NOMINAL DIMS.		ANCHOR TYPE 'C'		ANCHOR TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	D2	D3	D4
30	60	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0	70.0
60		70.0	70.0	64.0	70.0	70.0
66		70.0	70.0	58.2	70.0	70.0
72		70.0	70.0	53.3	70.0	70.0
30	66	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0
54		70.0	70.0	64.6	70.0	70.0
60		70.0	70.0	58.2	70.0	70.0
66		70.0	70.0	52.9	70.0	70.0
72		65.6	70.0	48.5	70.0	70.0
30	72	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	66.7	70.0	70.0
54		70.0	70.0	59.3	70.0	70.0
60		70.0	70.0	53.3	70.0	70.0
66		65.6	70.0	48.5	70.0	70.0
72		60.2	70.0	44.4	66.7	70.0
30	78	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	61.5	70.0	70.0
54		70.0	70.0	54.7	70.0	70.0
60		66.6	70.0	49.2	70.0	70.0
66		60.6	70.0	44.8	67.1	70.0
72		55.5	70.0	41.0	61.5	70.0
30	84	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	65.3	70.0	70.0
48		70.0	70.0	57.1	70.0	70.0
54		68.8	70.0	50.8	70.0	70.0
60		61.9	70.0	45.7	68.6	70.0
66		56.3	70.0	41.6	62.3	70.0
72		51.6	70.0	38.1	57.1	70.0

ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

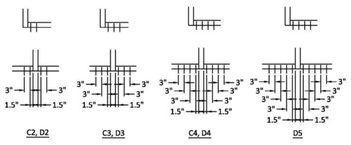
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'			
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5
30	90	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	61.0	70.0	70.0	70.0
48		70.0	70.0	70.0	53.3	70.0	70.0	70.0
54		64.2	70.0	70.0	47.4	70.0	70.0	70.0
60		57.8	70.0	70.0	42.7	64.0	70.0	70.0
66		52.5	70.0	70.0	38.8	58.2	70.0	70.0
72		48.1	70.0	70.0	35.6	53.3	70.0	70.0
30	96	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	66.7	70.0	70.0	70.0
42		70.0	70.0	70.0	57.1	70.0	70.0	70.0
48		67.7	70.0	70.0	50.0	70.0	70.0	70.0
54		60.2	70.0	70.0	44.4	66.7	70.0	70.0
60		54.2	70.0	70.0	40.0	60.0	70.0	70.0
66		49.2	70.0	70.0	36.4	54.5	70.0	70.0
72		45.1	67.7	70.0	33.3	50.0	66.7	70.0
30	102	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	62.7	70.0	70.0	70.0
42		70.0	70.0	70.0	53.8	70.0	70.0	70.0
48		63.7	70.0	70.0	47.1	70.0	70.0	70.0
54		56.6	70.0	70.0	41.8	62.7	70.0	70.0
60		51.0	70.0	70.0	37.6	56.5	70.0	70.0
66		46.3	69.5	70.0	34.2	51.3	68.4	70.0
30	108	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	59.3	70.0	70.0	70.0
42		68.8	70.0	70.0	50.8	70.0	70.0	70.0
48		60.2	70.0	70.0	44.4	66.7	70.0	70.0
54		53.5	70.0	70.0	39.5	59.3	70.0	70.0
60		48.1	70.0	70.0	35.6	53.3	70.0	70.0
66		43.8	65.6	70.0	32.3	48.5	64.6	70.0
72		40.1	60.2	70.0	29.6	44.4	59.3	70.0
30	114	70.0	70.0	70.0	67.4	70.0	70.0	70.0
36		70.0	70.0	70.0	56.1	70.0	70.0	70.0
42		65.1	70.0	70.0	48.1	70.0	70.0	70.0
48		57.0	70.0	70.0	42.1	63.2	70.0	70.0
54		50.7	70.0	70.0	37.4	56.1	70.0	70.0
60		45.6	68.4	70.0	33.7	50.5	67.4	70.0
66		41.5	62.3	70.0	30.6	45.9	61.2	70.0
72		38.0	57.0	70.0	28.1	42.1	56.1	70.0
30	120	70.0	70.0	70.0	64.0	70.0	70.0	70.0
36		70.0	70.0	70.0	53.3	70.0	70.0	70.0
42		61.9	70.0	70.0	45.7	68.6	70.0	70.0
48		54.2	70.0	70.0	40.0	60.0	70.0	70.0
54		48.1	70.0	70.0	35.6	53.3	70.0	70.0
60		43.3	65.0	70.0	32.0	48.0	64.0	70.0

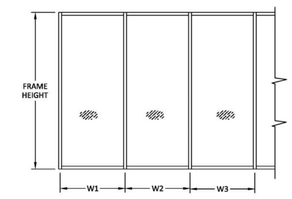
ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C4 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

D2 = (2) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
D3 = (3) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
D4 = (4) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
D5 = (5) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION





WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
TYPE C & D ANCHOR TABLES

PREPARED BY: BUILDING DROPS, INC.
2661 S. Ocean Blvd. Suite 338
Dania Beach, FL 33004
PH#: (954)294-4728
FAX: (954)744-8758
Web: www.buildingdrops.com

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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JEROME F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jerome F. Norero, P.E.
Florida P.E. No. 73778
Building Drops, Inc.
FL Cert. of Authorization #: 8338
396 E. Dania Beach Blvd.
Dania Beach, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 7

ANCHOR TYPE 'E' TABLES

ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

NOMINAL DIMS.		ANCHOR TYPE 'E'				
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	
30	60	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	
48		64.4	70.0	70.0	70.0	
54		57.2	70.0	70.0	70.0	
60		51.5	70.0	70.0	70.0	
66		46.8	70.0	70.0	70.0	
72		42.9	64.4	70.0	70.0	
30	66	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	
42		66.9	70.0	70.0	70.0	
48		58.5	70.0	70.0	70.0	
54		52.0	70.0	70.0	70.0	
60		46.8	70.0	70.0	70.0	
66		42.6	63.9	70.0	70.0	
72		39.0	58.5	70.0	70.0	
30	72	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	
42		61.3	70.0	70.0	70.0	
48		53.7	70.0	70.0	70.0	
54		47.7	70.0	70.0	70.0	
60		42.9	64.4	70.0	70.0	
66		39.0	58.5	70.0	70.0	
72		35.8	53.7	70.0	70.0	
30	78	70.0	70.0	70.0	70.0	
36		66.1	70.0	70.0	70.0	
42		56.6	70.0	70.0	70.0	
48		49.5	70.0	70.0	70.0	
54		44.0	66.1	70.0	70.0	
60		39.6	59.4	70.0	70.0	
66		36.0	54.0	70.0	70.0	
72		33.0	49.5	66.1	70.0	
30	84	70.0	70.0	70.0	70.0	
36		61.3	70.0	70.0	70.0	
42		52.6	70.0	70.0	70.0	
48		46.0	69.0	70.0	70.0	
54		40.9	61.3	70.0	70.0	
60		36.8	55.2	70.0	70.0	
66		33.5	50.2	66.9	70.0	
72		30.7	46.0	61.3	70.0	

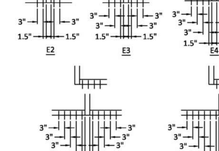
ANCHOR LOAD CAPACITY - PSF
EXT. (+) & INT (-)

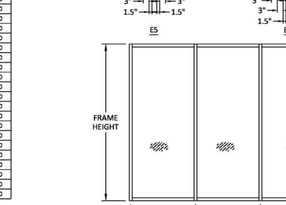
NOMINAL DIMS.		ANCHOR TYPE 'E'				
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6
30	90	68.7	70.0	70.0	70.0	70.0
36		57.2	70.0	70.0	70.0	70.0
42		49.1	70.0	70.0	70.0	70.0
48		42.9	64.4	70.0	70.0	70.0
54		38.2	57.2	70.0	70.0	70.0
60		34.3	51.5	68.7	70.0	70.0
66		31.2	46.8	62.4	70.0	70.0
72		28.6	42.9	57.2	70.0	70.0
30	96	64.4	70.0	70.0	70.0	70.0
36		53.7	70.0	70.0	70.0	70.0
42		46.0	69.0	70.0	70.0	70.0
48		40.3	60.4	70.0	70.0	70.0
54		35.8	53.7	70.0	70.0	70.0
60		32.2	48.3	64.4	70.0	70.0
66		29.3	43.9	58.5	70.0	70.0
72		26.8	40.3	53.7	67.1	70.0
30	102	60.6	70.0	70.0	70.0	70.0
36		50.5	70.0	70.0	70.0	70.0
42		43.3	64.9	70.0	70.0	70.0
48		37.9	56.8	70.0	70.0	70.0
54		33.7	50.5	67.3	70.0	70.0
60		30.3	45.5	60.6	70.0	70.0
66		27.6	41.3	55.1	68.9	70.0
30	108	57.2	70.0	70.0	70.0	70.0
36		47.7	70.0	70.0	70.0	70.0
42		40.9	61.3	70.0	70.0	70.0
48		35.8	53.7	70.0	70.0	70.0
54		31.8	47.7	63.6	70.0	70.0
60		28.6	42.9	57.2	70.0	70.0
66		26.0	39.0	52.0	65.1	70.0
30	114	54.2	70.0	70.0	70.0	70.0
36		45.2	67.8	70.0	70.0	70.0
42		38.7	58.1	70.0	70.0	70.0
48		33.9	50.8	67.8	70.0	70.0
54		30.1	45.2	60.3	70.0	70.0
60		27.1	40.7	54.2	67.8	70.0
30	120	51.5	70.0	70.0	70.0	70.0
36		42.9	64.4	70.0	70.0	70.0
42		36.8	55.2	70.0	70.0	70.0
48		32.2	48.3	64.4	70.0	70.0
54		28.6	42.9	57.2	70.0	70.0
60		25.8	38.6	51.5	64.4	70.0

ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

E2 = (2) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E3 = (3) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E4 = (4) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E5 = (5) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E6 = (6) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



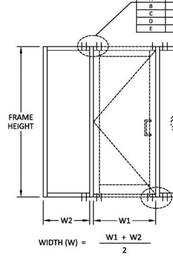

FRAME HEIGH

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

DOOR MULLION LOAD & ANCHOR TABLES

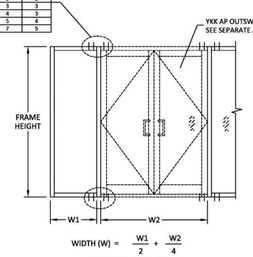
DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS.			WITHOUT STEEL REINF.		WITH STEEL REINF.
WIDTH (W)	FRAME HEIGHT		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102		70.0	70.0	70.0	90.0
30			70.0	70.0	70.0	90.0
36			70.0	70.0	70.0	90.0
42			70.0	70.0	70.0	90.0
48			70.0	70.0	70.0	90.0
54			70.0	70.0	70.0	90.0
60			70.0	70.0	70.0	90.0
24	108		70.0	70.0	70.0	90.0
30			70.0	70.0	70.0	90.0
36			70.0	70.0	70.0	90.0
42			70.0	70.0	70.0	90.0
48			70.0	70.0	70.0	90.0
54			70.0	70.0	70.0	90.0
60			70.0	70.0	70.0	90.0

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE				
	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	5	5	4	3	3
B	5	5	4	3	3
C	7	6	5	4	3
D	9	8	7	5	4
E	11	10	8	7	5



WIDTH (W) = $\frac{W1 + W2}{2}$

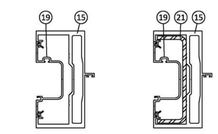
SINGLE DOOR



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

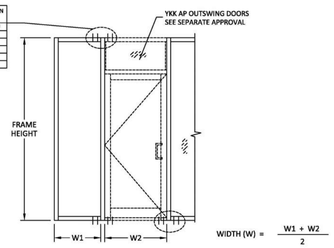
DOUBLE DOOR

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE				
	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	5	4	3	3	2
B	5	5	4	3	3
C	7	6	5	4	3
D	9	8	7	5	4
E	11	10	8	7	5



DOOR MULLION
WITHOUT STEEL REINFORCEMENT

DOOR MULLION
WITH STEEL REINFORCEMENT



WIDTH (W) = $\frac{W1 + W2}{2}$

SINGLE DOOR WITH TRANSOM

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
DOOR MULLION TABLE

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD, STE 338 DANIA BEACH, FL 33004 PH: (954)599-6478 FX: (954)599-6458 WEB: www.buildingdrops.com

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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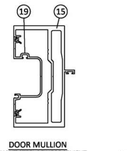
HERMES F. NORCIO LICENSED No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes Fabio Norcio, P.E.
Florida License No. 73778
Building Drops, Inc.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 8

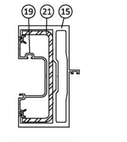
Page 9 of 14

DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS.				WITHOUT STEEL REINF.		WITH STEEL REINF.
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
96	36	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	42	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	48	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
102	36	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	42	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	48	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
108	36	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	42	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		70.0	70.0	70.0	90.0
	48	30		70.0	70.0	70.0	90.0
		36		70.0	70.0	70.0	90.0
		42		70.0	70.0	70.0	90.0
		48		57.1	57.1	70.0	90.0

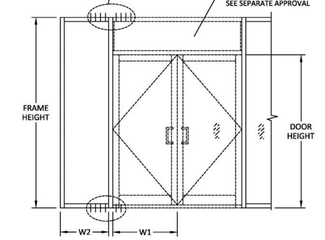


DOOR MULLION
WITHOUT STEEL REINFORCEMENT



DOOR MULLION
WITH STEEL REINFORCEMENT

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE				
	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	5	5	4	3	3
B	6	5	4	4	3
C	8	7	6	5	4
D	11	9	8	6	5
E	13	11	10	8	6



DOUBLE DOOR WITH TRANSOM

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
DOOR MULLION TABLES (1)

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD, STE 338 DANIA BEACH, FL 33004 PH: (954)599-6478 FX: (954)599-6458 WEB: www.buildingdrops.com

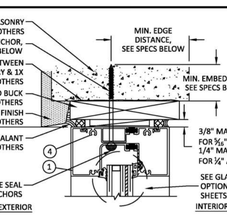
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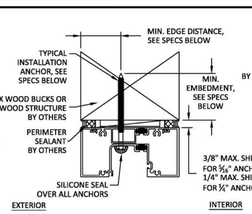
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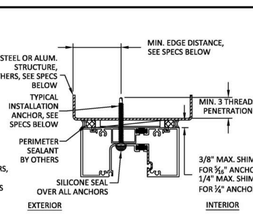
Page 10 of 14



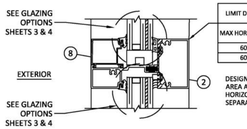
A 10 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK



D 10 VERTICAL SECTION
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



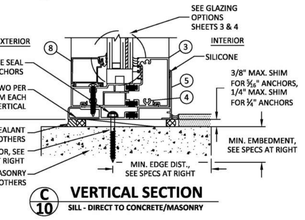
E 10 VERTICAL SECTION
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION



B 10 VERTICAL SECTION
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	54"	70 PSF
60"	84"	54 PSF

DESIGN LOADS SHOWN ABOVE ARE BASED ON MAX. GLASS AREA ABOVE HORIZONTAL FOR SMALLER GLASS ABOVE HORIZONTAL DESIGN LOADS TO BE CALCULATED SEPARATELY.



C 10 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY

YHS 50 TU ANCHOR TYPES				
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	1/4" DEWALT ULTRACON+	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	2-1/2"
	5/16" ITW TAPCON+		1-1/4"	2-3/16"
	5/16" DEWALT ULTRACON		2"	3-1/8"
	5/16" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 12 GA., MIN. Fy=36 KSI ALUM.: MIN. 1/8", MIN. 6063-T5	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"
B	1/4" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 18 GA., MIN. Fy=36 KSI, W/ OR W/O WOOD BACKING OR, ALUM.: MIN. 1/8", MIN. 6063-T5	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"
	5/16" DEWALT ULTRACON	MIN. S.G. = 0.55 WOOD	1-1/2"	1-9/16"
	5/16" ITW TAPCON+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-1/4"	3"
	5/16" DEWALT TAPPER+	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	2-1/2"
C	1/4" DEWALT TAPPER+		1-3/4"	2-1/2"
D	1/4" ITW TAPCON		1-1/2"	1-1/2"
	1/4" DEWALT ULTRACON+	MIN. S.G. = 0.55 WOOD	1-1/2"	1"
	1/4" DEWALT TAPPER+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-1/2"	3"
	5/16" DEWALT ULTRACON		1-3/4"	2-1/2"
E	1/4" ITW TAPCON		1"	2"
	1/4" DEWALT ULTRACON+		1-3/4"	2"

*NOTE: ANCHORS MAY BE EITHER HEX HEAD OR FLAT HEAD

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
VERTICAL SECTIONS & DESCRIPTIONS

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD, STE 338 DANIA BEACH, FL 33004 PH: (954)599-6478 FX: (954)599-6458 WEB: www.buildingdrops.com

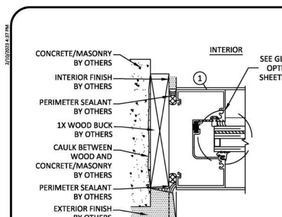
REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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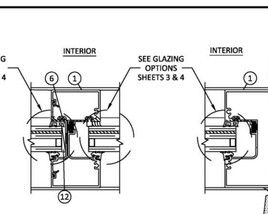
HERMES F. NORCIO LICENSED No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes Fabio Norcio, P.E.
Florida License No. 73778
Building Drops, Inc.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 10

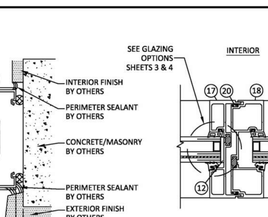
Page 11 of 14



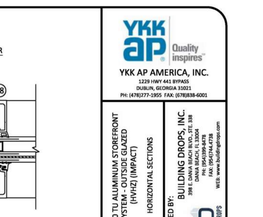
F 11 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
STANDARD CONFIGURATION



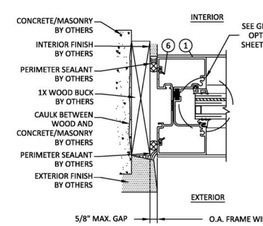
G 11 HORIZONTAL SECTION
VERTICAL MULLION
STANDARD CONFIGURATION



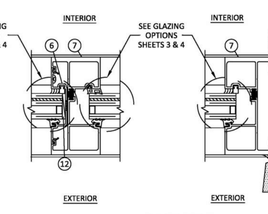
H 11 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY
STANDARD CONFIGURATION



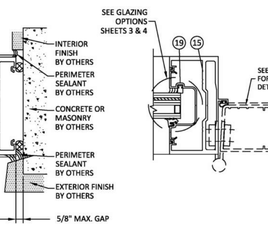
I 11 HORIZONTAL SECTION
VERTICAL EXPANSION MULLION



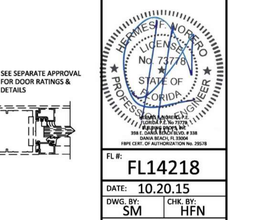
J 11 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION



K 11 HORIZONTAL SECTION
VERTICAL MULLION
HEAVY CONFIGURATION



L 11 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY
HEAVY CONFIGURATION



M 11 HORIZONTAL SECTION
DOOR JAMB MULLION

YKK AP AMERICA, INC.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD, STE 338 DANIA BEACH, FL 33004 PH: (954)599-6478 FX: (954)599-6458 WEB: www.buildingdrops.com

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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HERMES F. NORCIO LICENSED No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes Fabio Norcio, P.E.
Florida License No. 73778
Building Drops, Inc.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 11

Page 12 of 14

1 A862 **STOREFRONT PRODUCT APPROVAL - SHEET 3**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA STEFANO De LUCA AR0014815 REGISTERED ARCHITECT

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

Drawn: ARL
Checked: SDL

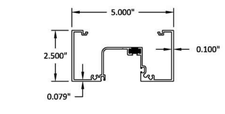
Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT

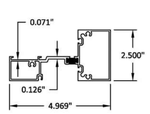
A862

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CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

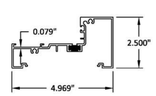
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	BE9-0681	HEAD / JAMB / VERTICAL	6063-T5
2	BE9-0683	HORIZONTAL	6063-T5
3	BE9-0682	SILL	6063-T5
4	E1-1060	ANCHOR FILLER	6063-T5
5	BE9-0687	SILL FLASHING	6063-T5
6	BE9-0655	SHALLOW POCKET FILLER	6063-T5
7	BE9-0684	HEAVY DUTY VERTICAL	6063-T5
8	E9-0658	GLASS STOP	6063-T5
9	E2-0083	EXTERIOR GLAZING GASKET	EPDM
10	E2-0088	INTERIOR GLAZING GASKET	EPDM
11	E2-0095	SETTING BLOCK	EPDM (85±5)
12	E2-0096	SIDE BLOCK	EPDM
13	PC-1220	#12 x 1-1/4" PHSMS Type AB	ZINC PLATED STEEL
14	PC-1424	#14 x 1-1/2" PHSMS Type AB	ZINC PLATED STEEL
15	E9-0504	DOOR JAMB O/P	6063-T6
16	E2-0084	INTERIOR SILICONE SPACER	SILICONE
17	BE9-0634	EXPANSION MULLION (MALE)	6063-T5
18	BE9-0635	EXPANSION MULLION (FEMALE)	6063-T5
19	E9-0656	DEEP POCKET FILLER	6063-T5
20	E2-0065	WEATHERING GASKET	EPDM
21	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL



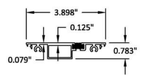
1 HEAD/JAMB/VERTICAL



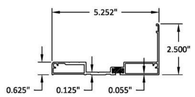
2 HORIZONTAL



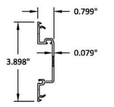
3 SILL



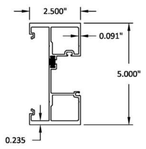
4 ANCHOR FILLER



5 SILL FLASHING



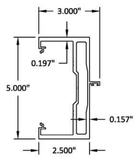
6 SHALLOW POCKET FILLER



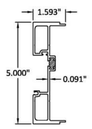
7 HEAVY DUTY VERTICAL



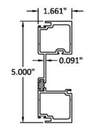
8 GLASS STOP



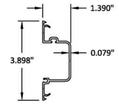
15 DOOR MULLION O/P



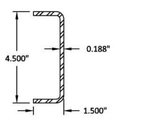
17 EXPANSION MULLION (MALE)



18 EXPANSION MULLION (FEMALE)



19 DEEP POCKET FILLER



21 DOOR MULLION REINFORCEMENT

YKK AP AMERICA, INC.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
COMPONENTS & BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
398 E. DAVIA BLVD. # 338, DANIA BEACH, FL 33004
PH: (954)744-4738 FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17
B-MISC. UPDATES	SH	12.15.22

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PREPARED BY: BUILDING DROPS, INC.
398 E. DAVIA BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 12
Page 13 of 14

YKK AP AMERICA, INC.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
398 E. DAVIA BLVD. # 338, DANIA BEACH, FL 33004
PH: (954)744-4738 FAX: (954)744-4738
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REMARKS | BY | DATE
A-FBC CODE UPDATE | RV | 07.12.17
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PREPARED BY: BUILDING DROPS, INC.
398 E. DAVIA BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL14218
DATE: 10.20.15
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK161
SHEET: 13
Page 14 of 14

1 A863 **STOREFRONT PRODUCT APPROVAL - SHEET 4**
N.T.S.

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815
STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT

A863

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

YKK AP America Inc.

SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FOR INSTALLATION INTO WOOD FRAMING USE *#14 WOOD SCREWS* OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE *1/4 INCH DIAMETER ITW TAPCONS* OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
7. FOR INSTALLATION THROUGH METAL FRAME USE *1/4 INCH DIAMETER SELF-TAPPING SCREW* OF SUFFICIENT LENGTH TO ACHIEVE *3 THREADS* MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
8. FOR INSTALLATION THROUGH ALUMINUM MULLION USE *1/4 INCH DIAMETER SELF-TAPPING SCREW* OF SUFFICIENT LENGTH TO ACHIEVE *3 THREADS* MINIMUM PENETRATION BEYOND ALUMINUM FRAME SUBSTRATE.
9. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
10. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
11. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
13. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
    - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
    - E. ALUMINUM - MINIMUM 1/16 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - TAS 201-94
    - TAS 202-94
    - TAS 203-94
    - ASTM E283-04(12)
    - ASTM E330-14
    - ASTM E1886-13a
    - ASTM E1996-14a/17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: ALUMINUM 6063-T5
7. ALL STRUCTURAL MATERIALS & DISSIMILIAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 14, 14.1, & 15 FOR GLAZING DETAILS.
9. DOOR CONFIGURATIONS MAY UTILIZE BUTT HINGES AS DESCRIBED HEREIN OR CONTINUOUS HINGES INTERCHANGEABLY.
10. ALLOWABLE CONFIGURATIONS: X (SINGLE DOOR) OR XX (DOUBLE DOOR) WITH OR WITHOUT TRANSOMS.

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4	ANCHOR LAYOUTS & QUALIFIED HINGE ASSEMBLIES
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7	VERTICAL SECTIONS 3 & THRESHOLD WATER & DP LIM.
8	HORIZONTAL SECTIONS 1
9	HORIZONTAL SECTIONS 2
10	HORIZONTAL/VERTICAL SECTIONS
11	SILL DETAIL WITH RAMP
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DESIGN PRESSURE TABLE

GLAZING TYPES	MAX. DOOR D.L.O. SIZE	MAX. DP	IMPACT RATING
A, B, C	38.44" X 83.50"	+90/-90 PSF	LMI & SMI
A1, B1, C1	38.06" X 82.44"	+70/-90 PSF	LMI & SMI
D, E	32.44" X 83.50"	+60/-60 PSF	LMI & SMI
D1, E1	32.06" X 82.44"	+50/-50 PSF	LMI & SMI
K, L, M	38.44" X 82.50"	+90/-90 PSF	SMI
K1, L1	38.06" X 82.44"	+70/-90 PSF	SMI
C, C1	32.44" X 100.81"	+90/-90 PSF	LMI & SMI
B1, C1	32.44" X 106.81"	+75/-75 PSF	LMI

NOTE:
1. LMI - LARGE MISSILE IMPACT RATED
2. SMI - SMALL MISSILE IMPACT RATED
3. SEE SHEETS 14, 14.1, & 15 FOR GLAZING DETAILS
4. SEE SHEETS 2-4 FOR LIMITATIONS ON DESIGN PRESSURE BASED ON SIZE AND LOCKING HARDWARE

YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT) — INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC. — 20041 E. DIXIE HIGHWAY, SUITE 108, AVENTURA, FL 33180; 3200 S. BEACH BLVD, SUITE 1, DANIA BEACH, FL 33004; TEL: (954)934-8378; FAX: (954)764-4728; WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

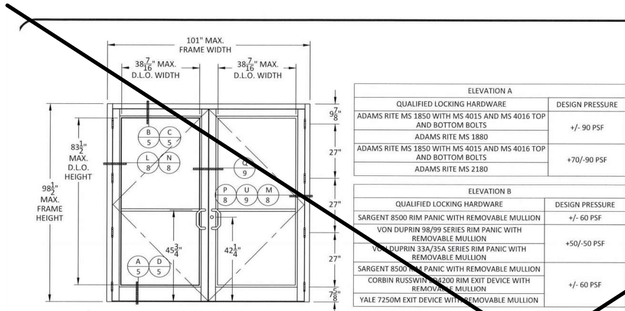
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.12.14 11:47:00 -05'00'

HERMES F. NORERO — LICENSE No. 73778 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION No. 29578
398 E. DANIA BEACH BLVD. # 338, DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
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SCALE: NTS
DWG. #: YKK020
SHEET: 1

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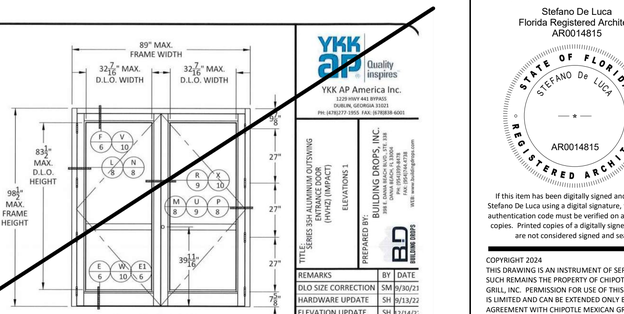


ELEVATION A
STANDARD 5-POINT LOCK

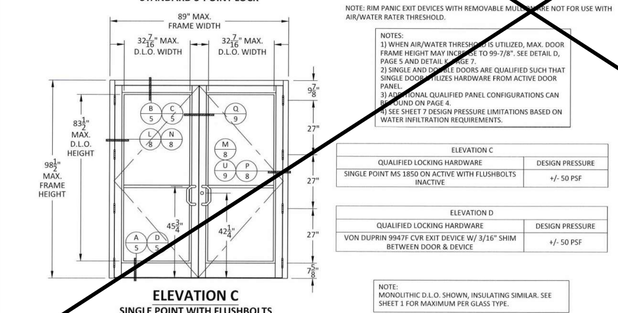
ELEVATION A	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
ADAMS RITE MS 1850 WITH MS 4015 AND MS 4016 TOP AND BOTTOM BOLTS ADAMS RITE MS 1880	+/- 90 PSF
ADAMS RITE MS 1850 WITH MS 4015 AND MS 4016 TOP AND BOTTOM BOLTS ADAMS RITE MS 2180	+70/-90 PSF

ELEVATION B	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SARGENT 8500 RIM PANIC WITH REMOVABLE MULLION	+/- 60 PSF
VON DUPRIN 98/99 SERIES RIM PANIC WITH REMOVABLE MULLION VON DUPRIN 33A/35A SERIES RIM PANIC WITH REMOVABLE MULLION	+50/-50 PSF
SARGENT 8500 RIM PANIC WITH REMOVABLE MULLION CORBIN RUSSWIN ED4200 RIM EXIT DEVICE WITH REMOVABLE MULLION YALE 7250M EXIT DEVICE WITH REMOVABLE MULLION	+/- 60 PSF

NOTE: RIM PANIC EXIT DEVICES WITH REMOVABLE MULLION ARE NOT FOR USE WITH AIR/WATER RATER THRESHOLD.



ELEVATION B
RIM PANIC WITH REMOVABLE MULLION



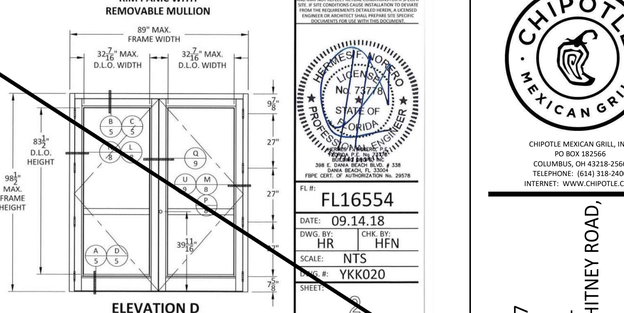
ELEVATION C
SINGLE POINT WITH FLUSHBOLTS

NOTES:
1) WHEN AIR/WATER THRESHOLD IS UTILIZED, MAX. DOOR FRAME HEIGHT MAY INCREASE TO 99-7/8". SEE DETAIL D, PAGE 5 AND DETAIL K, PAGE 7.
2) SINGLE AND DOUBLE DOORS ARE QUALIFIED SUCH THAT SINGLE DOOR UTILIZES HARDWARE FROM ACTIVE DOOR PANEL.
3) ADDITIONAL QUALIFIED PANEL CONFIGURATIONS CAN BE FOUND ON PAGE 4.
4) SEE SHEET 7 DESIGN PRESSURE LIMITATIONS BASED ON WATER INFILTRATION REQUIREMENTS.

ELEVATION C	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SINGLE POINT MS 1850 ON ACTIVE WITH FLUSHBOLTS INACTIVE	+/- 50 PSF

ELEVATION D	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
VON DUPRIN 9947F CVR EXIT DEVICE W/ 3/16" SHIM BETWEEN DOOR & DEVICE	+/- 50 PSF

NOTE:
MONOLITHIC D.L.O. SHOWN, INSULATING SIMILAR. SEE SHEET 1 FOR MAXIMUM PER GLASS TYPE.



ELEVATION D
CONCEALED VERTICAL ROD

YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT) — ELEVATIONS 1

PREPARED BY: BUILDING DROPS, INC. — 20041 E. DIXIE HIGHWAY, SUITE 108, AVENTURA, FL 33180; 3200 S. BEACH BLVD, SUITE 1, DANIA BEACH, FL 33004; TEL: (954)934-8378; FAX: (954)764-4728; WEB: www.buildingdrops.com

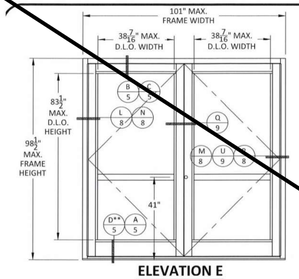
REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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HERMES F. NORERO — LICENSE No. 73778 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION No. 29578
398 E. DANIA BEACH BLVD. # 338, DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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DWG. #: YKK020
SHEET: 2

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ELEVATION E
CVR EXIT DEVICE

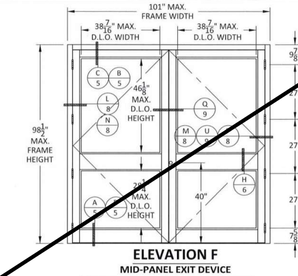
ELEVATION E	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SARGENT 8400 CVR EXIT DEVICE FIRST CHOICE FL8660 CVR EXIT DEVICE FIRST CHOICE FL3690 CVR EXIT DEVICE	+/- 90 PSF
FALCON DOR-O-MATIC 1490 CVR EXIT DEVICE FALCON DOR-O-MATIC 1690 CVR EXIT DEVICE	+70/- 90 PSF

ELEVATION F	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
FALCON DOR-O-MATIC 2390 MID-PANEL EXIT DEVICE	+ 70/- 90 PSF

NOTES:
1) WHEN AIR/WATER THRESHOLD IS UTILIZED, MAX. DOOR FRAME HEIGHT MAY INCREASE TO 99-7/8". SEE DETAIL D, PAGE 5 AND DETAIL K, PAGE 7.
2) SINGLE AND DOUBLE DOORS ARE QUALIFIED SUCH THAT SINGLE DOOR UTILIZES HARDWARE FROM ACTIVE DOOR PANEL.
3) ADDITIONAL QUALIFIED PANEL CONFIGURATIONS CAN BE FOUND ON PAGE 4.
4) SEE SHEET 7 DESIGN PRESSURE LIMITATIONS BASED ON WATER INFILTRATION REQUIREMENTS.

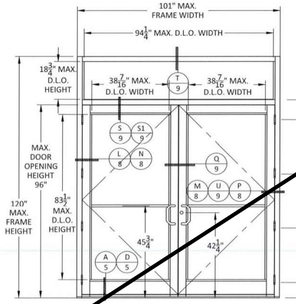
*NOTE: AIR TIGHT THRESHOLD (ITEM #13) MAY BE USED IN LIEU OF AIR/WATER THRESHOLD WHEN UTILIZED WITH CONCEALED VERTICAL ROD DEVICES

NOTE:
MONOLITHIC D.L.O. SHOWN, INSULATING SIMILAR. SEE SHEET 1 FOR MAXIMUM PER GLASS TYPE.



ELEVATION F
MID-PANEL EXIT DEVICE

NOTE: HARDWARE FABRICATION LOCATION ON ELEVATION F IS 40" FROM BOTTOM OF DOOR REGARDLESS OF WHICH THRESHOLD IS USED.

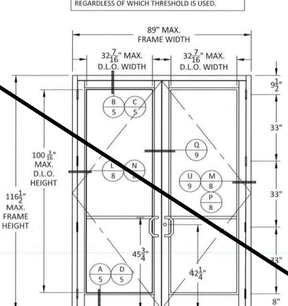


ELEVATION G
DOUBLE DOOR WITH TRANSOM

ELEVATION G	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SEE ELEVATIONS A-F & I FOR ALLOWABLE LOCKING HARDWARE SYSTEMS	*NOT TO EXCEED +70/-90 PSF

*ELEVATION G NOTES:
1. FOR TRANSOM MULLION DETAIL S1/9:
   A. MAX. DESIGN PRESSURE NOT TO EXCEED +70/-65 PSF WHEN MONO-LAMI GLAZINGS ARE UTILIZED (MULL ITEM# 51).
   B. DESIGN PRESSURE NOT TO EXCEED +70/-70 PSF WHEN INSULATED LAMINATED GLAZINGS ARE UTILIZED (MULL ITEM# 52).
   C. LESSER DESIGN PRESSURE OF THOSE STATED ABOVE (1.A & 1.B) OR THOSE FOUND ON SHEET 1 SHALL GOVERN.
2. FOR TRANSOM MULLION DETAIL S1/9.
   A. MAX. DESIGN PRESSURE NOT TO EXCEED +70/-70 PSF WHEN MONO-LAMI GLAZINGS ARE UTILIZED (MULL ITEM# 12).
   B. DESIGN PRESSURE NOT TO EXCEED +70/-90 PSF WHEN INSULATED LAMINATED GLAZINGS ARE UTILIZED (MULL ITEM# 62).
   C. LESSER DESIGN PRESSURE OF THOSE STATED ABOVE (2.A & 2.B) OR THOSE FOUND ON SHEET 1 SHALL GOVERN.
3. LESSER DESIGN PRESSURE OF THAT SHOWN IN TABLE ABOVE, OR THAT INDICATED IN CORRESPONDING TABLE FOR HARDWARE SHALL GOVERN.
4. MAX. DOOR SIZES FOR A GIVEN HARDWARE AS INDICATED IN ELEVATIONS A-F & I SHALL GOVERN MAX. SIZE OF ASSEMBLY. ASSEMBLY IS TO NOT EXCEED DIMENSIONS AS SHOWN IN ELEVATION G.

ELEVATION H	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
ADAMS RITE MS 1850 WITH MS 4015 AND MS 4016 TOP AND BOTTOM BOLTS.	+90/-90 PSF
ADAMS RITE MS 1880.	+90/-90 PSF



ELEVATION H
STANDARD 5-POINT LOCK

YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT) — ELEVATIONS 2

PREPARED BY: BUILDING DROPS, INC. — 20041 E. DIXIE HIGHWAY, SUITE 108, AVENTURA, FL 33180; 3200 S. BEACH BLVD, SUITE 1, DANIA BEACH, FL 33004; TEL: (954)934-8378; FAX: (954)764-4728; WEB: www.buildingdrops.com

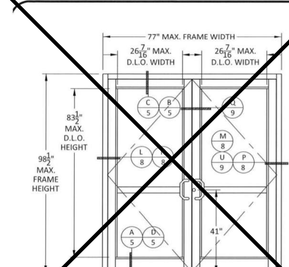
REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
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HERMES F. NORERO — LICENSE No. 73778 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION No. 29578
398 E. DANIA BEACH BLVD. # 338, DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 3

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ELEVATION I
CVR EXIT DEVICE

ELEVATION I	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
VON DUPRIN 3347 CONCEALED VERTICAL ROD	+70 / -48 PSF

ELEVATION J	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SEE ELEVATIONS A-F & I FOR ALLOWABLE LOCKING HARDWARE SYSTEMS	NOT TO EXCEED +70/-90 PSF

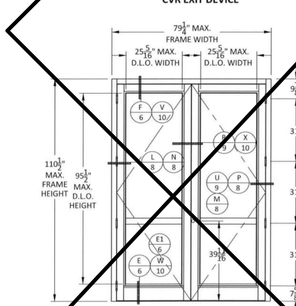
ELEVATION K	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SARGET 8500 RIM PANIC WITH REMOVABLE MULLION	+/- 47 PSF
VON DUPRIN 98 / 99 SERIES RIM PANIC WITH REMOVABLE MULLION VON DUPRIN 33A / 35A SERIES RIM PANIC WITH REMOVABLE MULLION	+/- 39.7 PSF
SARGENT 8500 RIM PANIC WITH REMOVABLE MULLION CORBIN RUSSWIN ED4200 RIM EXIT DEVICE WITH REMOVABLE MULLION YALE 7250M EXIT DEVICE WITH REMOVABLE MULLION	+/- 47.7 PSF

ELEVATION L	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
SARGET 8500 RIM PANIC WITH REMOVABLE MULLION	+/- 53.3 PSF
VON DUPRIN 98 / 99 SERIES RIM PANIC WITH REMOVABLE MULLION VON DUPRIN 33A / 35A SERIES RIM PANIC WITH REMOVABLE MULLION	+/- 44.4 PSF
SARGENT 8500 RIM PANIC WITH REMOVABLE MULLION CORBIN RUSSWIN ED4200 RIM EXIT DEVICE WITH REMOVABLE MULLION YALE 7250M EXIT DEVICE WITH REMOVABLE MULLION	+/- 53.3 PSF

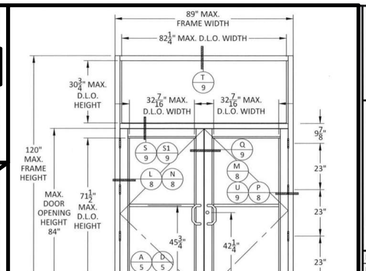
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2) SINGLE AND DOUBLE DOORS ARE QUALIFIED SUCH THAT SINGLE DOOR UTILIZES HARDWARE FROM ACTIVE DOOR PANEL.
3) ADDITIONAL QUALIFIED PANEL CONFIGURATIONS CAN BE FOUND ON PAGE 4.
4) SEE SHEET 7 DESIGN PRESSURE LIMITATIONS BASED ON WATER INFILTRATION REQUIREMENTS.

**NOTE: AIR TIGHT THRESHOLD (ITEM #13) MAY BE USED IN LIEU OF AIR/WATER THRESHOLD WHEN UTILIZED WITH CONCEALED VERTICAL ROD DEVICES

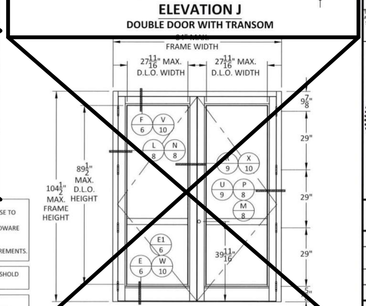
NOTE:
MONOLITHIC D.L.O. SHOWN, INSULATING SIMILAR. SEE SHEET 1 FOR MAXIMUM PER GLASS TYPE.



ELEVATION K
RIM PANIC WITH REMOVABLE MULLION



ELEVATION J
DOUBLE DOOR WITH TRANSOM



ELEVATION L
RIM PANIC WITH REMOVABLE MULLION

YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT) — ELEVATIONS 3

PREPARED BY: BUILDING DROPS, INC. — 20041 E. DIXIE HIGHWAY, SUITE 108, AVENTURA, FL 33180; 3200 S. BEACH BLVD, SUITE 1, DANIA BEACH, FL 33004; TEL: (954)934-8378; FAX: (954)764-4728; WEB: www.buildingdrops.com

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DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 3.1

Page 4 of 21

1 A870 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 1**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA — STEFANO De LUCA — AR0014815 — REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

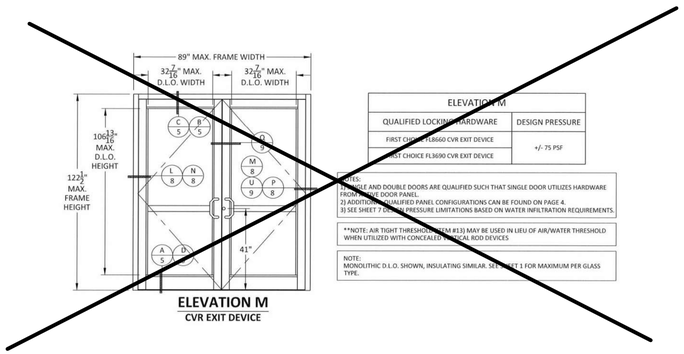
Drawn: ARL | Checked: SDL

Project No.: CMG2321

Contents: PRODUCT APPROVAL - STOREFRONT DOORS

A870

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF



ELEVATION M
CVR EXIT DEVICE

ELEVATION M	
QUALIFIED LOCKING HARDWARE	DESIGN PRESSURE
FIRST CHOICE FL8660 CVR EXIT DEVICE	+/- 75 PSF
FIRST CHOICE FL3690 CVR EXIT DEVICE	

NOTES:
1) SINGLE AND DOUBLE DOORS ARE QUALIFIED SUCH THAT SINGLE DOOR UTILIZES HARDWARE FROM ACTIVE DOOR PANEL.
2) ADDITIONAL QUALIFIED PANEL CONFIGURATIONS CAN BE FOUND ON PAGE 4.
3) SEE SHEET 7 FOR DESIGN PRESSURE LIMITATIONS BASED ON WATER INFILTRATION REQUIREMENTS.

**NOTE: AIR TIGHT THRESHOLD, ITEM #13) MAY BE USED IN LIEU OF AIR/WATER THRESHOLD WHEN UTILIZED WITH CONCEALED VERTICAL ROD DEVICES.

NOTE:
MONOLITHIC D.L.O. SHOWN, INSULATING SIMILAR. SEE SHEET 1 FOR MAXIMUM PER GLASS TYPE.

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
ELEVATIONS 4

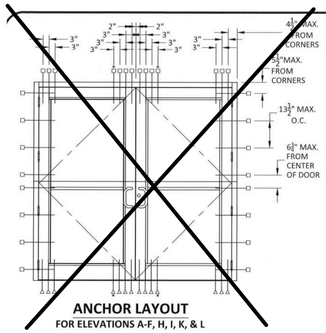
PREPARED BY: BUILDING DROPS, INC.
3581 E. SUNRISE BLVD. # 338
DANIA BEACH, FL 33004
PH: (954)704-4708
FAX: (954)704-4708
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

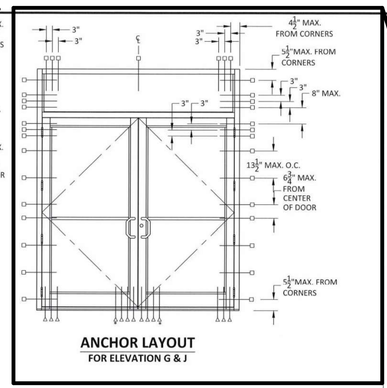
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HERMES F. NORIEGA LICENSED No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
ELECTRONICALLY SIGNED AND SEALED
12/14/22
ADDRESS OF AUTHORIZATION:
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 3.2
Page 5 of 21



ANCHOR LAYOUT
FOR ELEVATIONS A-F, H, I, K, & L



ANCHOR LAYOUT
FOR ELEVATION G & J

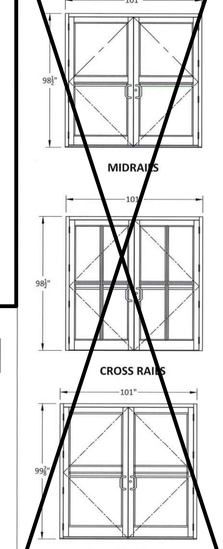
QUALIFIED HINGE ASSEMBLIES

HINGE TYPE	DESCRIPTION	MAX FRAME SIZE	DESIGN PRESSURE
BUTT HINGE	***FOUR (4) HAGER BB1191 BUTT HINGES PER DOOR LEAF	101" x 98 1/2"	+90/-90 PSF
BUTT HINGE	***FOUR (4) HAGER BB1191 BUTT HINGES PER DOOR LEAF	89" x 116 1/2"	+90/-90 PSF
BUTT HINGE	***FOUR (4) MCKINNEY TA2714 BUTT HINGES PER DOOR LEAF	101" x 98 1/2"	+90/-90 PSF
CONTINUOUS HINGE	ONE (1) ROTON 780-226HD CONTINUOUS GEARED HINGE PER DOOR LEAF	101" x 98 1/2"	+90/-90 PSF
CONTINUOUS HINGE	ONE (1) SELECT 27HD CONTINUOUS GEARED HINGE PER DOOR LEAF	101" x 98 1/2"	+90/-90 PSF
CONTINUOUS HINGE	ONE (1) PEMKO SLI HD CONTINUOUS GEARED HINGE PER DOOR LEAF	89" x 122 1/2"	+75/-75 PSF
PIVOT	ROTON PIVOT HINGES 180 AT TOP, MP1774 PIVOT ASSEMBLY AT BOTTOM	101" x 98 1/2"	+90/-90 PSF

***NOTE: IF DOOR HEIGHT IS LESS THAN 90" AND DOOR WIDTH IS EQUAL TO OR LESS THAN 36", THEN ONE INTERMEDIATE BUTT HINGE AT MIDSPAN IS REQUIRED BETWEEN TOP & BOTTOM BUTT HINGES

*TWO (2) LESS ANCHORS ARE REQUIRED AT HEAD AND SILL FOR DESIGN PRESSURES OF +/- 60 PSF OR LESS.

QUALIFIED PANEL CONFIGURATIONS



MIDRAILS WITH AIR/WATER THRESHOLD

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
ANCHOR LAYOUTS & QUALIFIED HINGE ASSEMBLIES

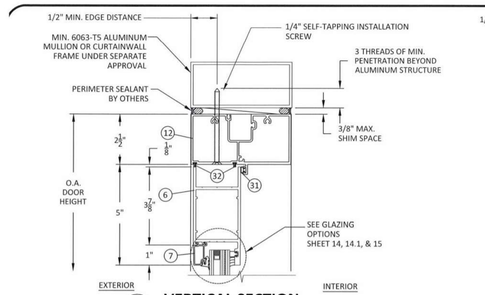
PREPARED BY: BUILDING DROPS, INC.
3581 E. SUNRISE BLVD. # 338
DANIA BEACH, FL 33004
PH: (954)704-4708
FAX: (954)704-4708
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

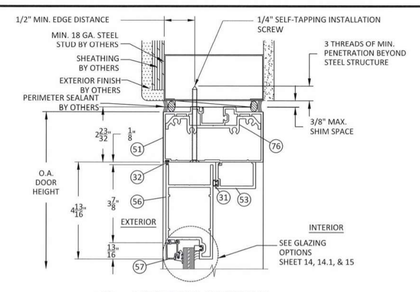
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ELECTRONICALLY SIGNED AND SEALED
12/14/22
ADDRESS OF AUTHORIZATION:
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

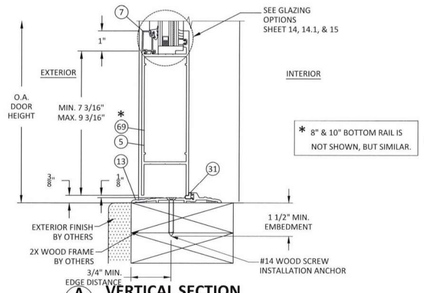
FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 4
Page 6 of 21



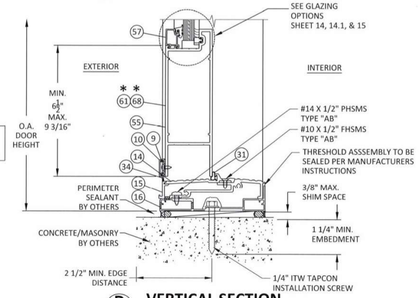
B 5 VERTICAL SECTION
HEAD - ALUMINUM MULLION



C 5 VERTICAL SECTION
OHCC HEAD (OPTIONAL) - STEEL STUD



A 5 VERTICAL SECTION
SILL - 2X WOOD FRAME
AIR RESISTANT THRESHOLD



D 5 VERTICAL SECTION
SILL - CONCRETE/MASONRY
AIR + WATER RESISTANT THRESHOLD

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
VERTICAL SECTIONS 1

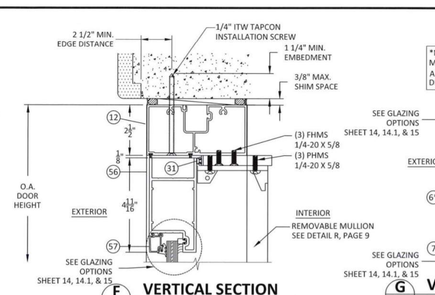
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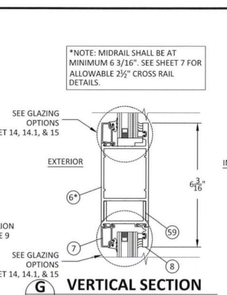
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SHEET: 5
Page 7 of 21

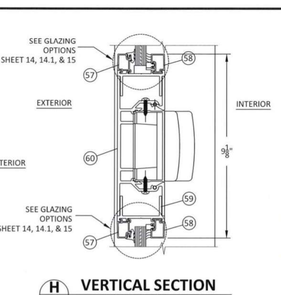


F 6 VERTICAL SECTION
HEAD - CONCRETE/MASONRY
REMOVABLE MULLION

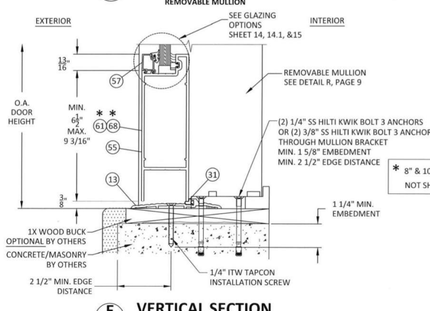
*NOTE: MIDRAIL SHALL BE AT MINIMUM 6 3/16". SEE SHEET 7 FOR ALLOWABLE 2½" CROSS RAIL DETAILS.



G 6 VERTICAL SECTION
6" MIDRAIL

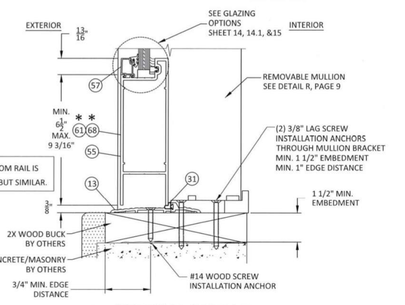


H 6 VERTICAL SECTION
MID-PANEL EXIT DEVICE
PANIC MIDRAIL



E 6 VERTICAL SECTION
SILL - CONCRETE/MASONRY
REMOVABLE MULLION

*8" & 10" BOTTOM RAIL IS NOT SHOWN, BUT SIMILAR.



E1 6 VERTICAL SECTION
SILL - 2X WOOD BUCK
REMOVABLE MULLION

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
VERTICAL SECTIONS 2

PREPARED BY: BUILDING DROPS, INC.
3581 E. SUNRISE BLVD. # 338
DANIA BEACH, FL 33004
PH: (954)704-4708
FAX: (954)704-4708
WEB: www.buildingdrops.com

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ELECTRONICALLY SIGNED AND SEALED
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ADDRESS OF AUTHORIZATION:
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 6
Page 8 of 21

1 A871 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 2**
N.T.S.

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

Drawn: ARL | Checked: SDL

Project No.: CMG2321

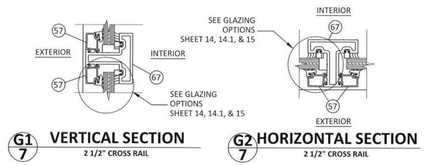
Contents:
PRODUCT APPROVAL - STOREFRONT DOORS

A871

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

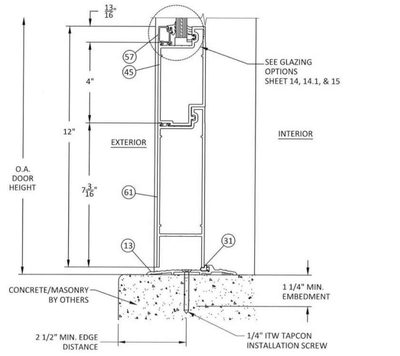
THRESHOLD WATER INFILTRATION AND DESIGN PRESSURE LIMITATIONS

THRESHOLD DESCRIPTION	ITEM #	TYP. DETAILS	WATER TEST PRESSURE	LIMITATIONS
4 1/2" AIR TIGHT THRESHOLD	ITEM # 13	SEE TYP. DETAILS A/5, E/6, E1/6, I/7 & W/10	0 PSF	THRESHOLD SHALL BE USED WHERE WATER INFILTRATION RATING IS NOT REQUIRED OR WHERE WATER INFILTRATION IS REQUIRED, A MINIMUM OVERHANG RATIO (OVERHANG PROJECTION:OVERHANG HEIGHT) SHALL BE EQUAL TO OR GREATER THAN 1. POSITIVE DESIGN LOAD NOT TO EXCEED +90 PSF.
AIR/WATER RESISTANT THRESHOLD	ITEMS #14, #15, & #16	SEE TYP. DETAILS D/5, K/7, Y/11 & Z/11	[illegible]	• WHERE WATER INFILTRATION IS REQUIRED, [illegible] SHALL NOT EXCEED +70 PSF. • WHERE WATER INFILTRATION IS REQUIRED, AND A MINIMUM OVERHANG RATIO (OVERHANG PROJECTION:OVERHANG HEIGHT) EQUAL TO OR GREATER THAN 1 IS PRESENT, POSITIVE DESIGN LOAD SHALL NOT EXCEED +90 PSF. • WHERE WATER INFILTRATION IS NOT REQUIRED, POSITIVE DESIGN LOAD NOT TO EXCEED +90 PSF.

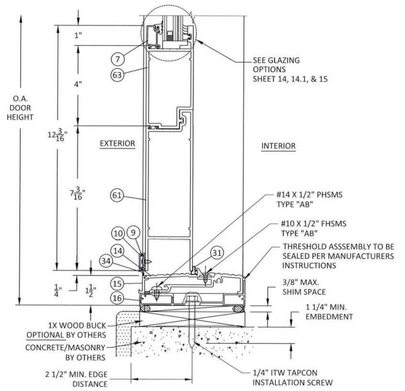


G1/7 VERTICAL SECTION — 2 1/2" CROSS RAIL

G2/7 HORIZONTAL SECTION — 2 1/2" CROSS RAIL



J7 VERTICAL SECTION
SILL - CONCRETE/MASONRY STACKED BOTTOM RAIL



K7 VERTICAL SECTION
SILL - 1X/CONCRETE/MASONRY STACKED BOTTOM RAIL

YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
VERTICAL SECTIONS 3 & THRESHOLD WATER & DP LIM.
PREPARED BY: BUILDING DROPS, INC.
3941 E. DANIA BEACH BLVD., STE 338, DANIA BEACH, FL 33004
PH: (954)934-8478
FAX: (305)749-4158
WEB: www.buildingdrops.com

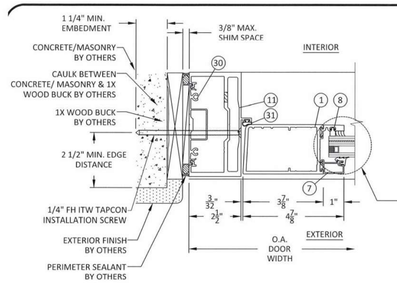
REMARKS	BY	DATE
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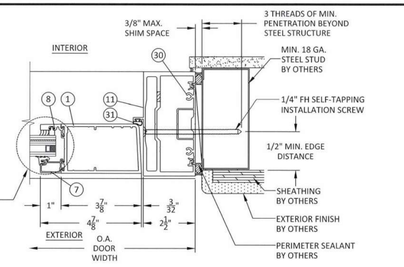
HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E. FL LICENSE No. 73778
398 E. DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 7

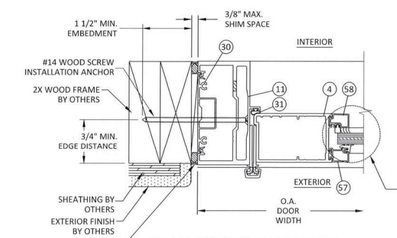
Page 9 of 21



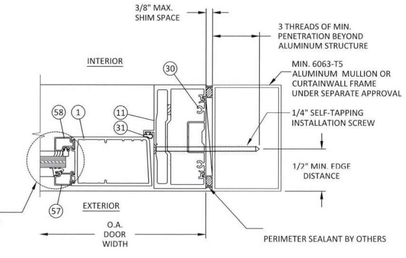
L8 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY



M8 HORIZONTAL SECTION
JAMB - STEEL STUD



N8 HORIZONTAL SECTION
JAMB -2XWOOD FRAME CONTINUOUS HINGE



P8 HORIZONTAL SECTION
JAMB - ALUMINUM STUD

YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
HORIZONTAL SECTIONS 1
PREPARED BY: BUILDING DROPS, INC.
3941 E. DANIA BEACH BLVD., STE 338, DANIA BEACH, FL 33004
PH: (954)934-8478
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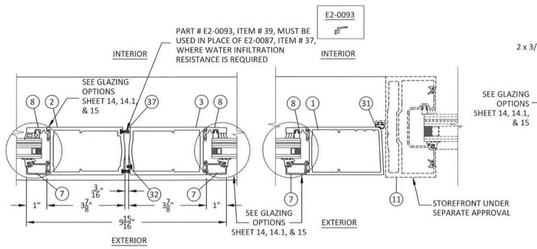
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HERMES F. NORERO, P.E. FL LICENSE No. 73778
398 E. DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

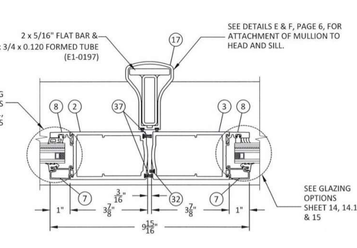
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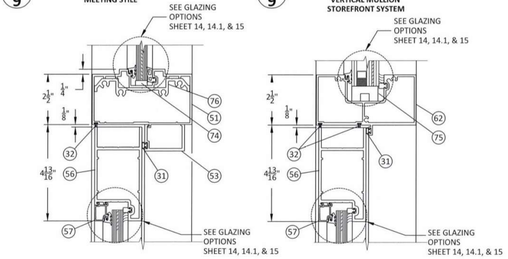


Q9 HORIZONTAL SECTION
MEETING STILE

U9 HORIZONTAL SECTION
VERTICAL MULLION STOREFRONT SYSTEM

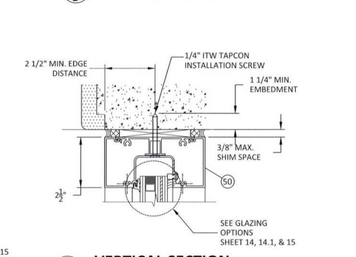


R9 HORIZONTAL SECTION
MEETING STILE W/REMOVABLE MULLION



S9 VERTICAL SECTION
OHCC MULLION
SEE SHEET 3 FOR DP LIMITATIONS

S1/9 VERTICAL SECTION
STANDARD TRANSOM MULLION
SEE SHEET 3 FOR DP LIMITATIONS



T9 VERTICAL SECTION
TRANSOM HEADER

YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
HORIZONTAL DETAILS 2
PREPARED BY: BUILDING DROPS, INC.
3941 E. DANIA BEACH BLVD., STE 338, DANIA BEACH, FL 33004
PH: (954)934-8478
FAX: (305)749-4158
WEB: www.buildingdrops.com

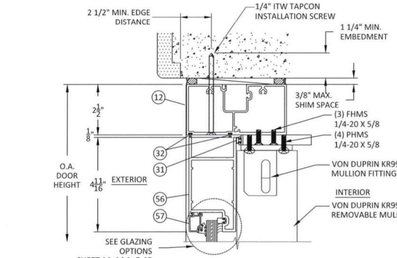
REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/2:

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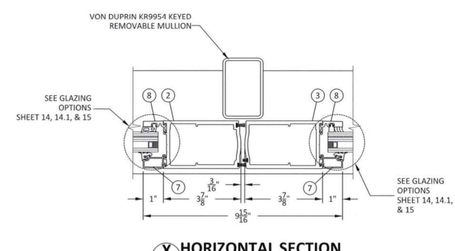
HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E. FL LICENSE No. 73778
398 E. DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 9

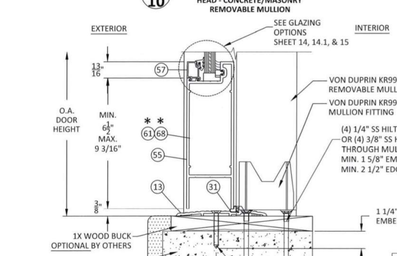
Page 11 of 21



V10 VERTICAL SECTION
HEAD - CONCRETE/MASONRY REMOVABLE MULLION

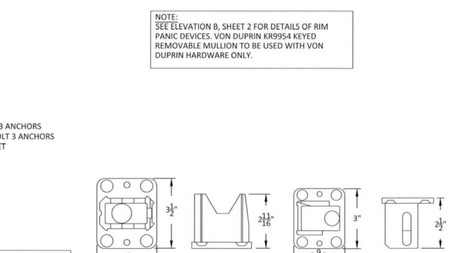


X10 HORIZONTAL SECTION
MEETING STILE W/REMOVABLE MULLION



W10 VERTICAL SECTION
SILL - CONCRETE/MASONRY REMOVABLE MULLION

* 8" & 10" BOTTOM RAIL IS NOT SHOWN, BUT SIMILAR.



NOTE:
SEE ELEVATION B, SHEET 2 FOR DETAILS OF RIM PANIC DEVICES. VON DUPRIN KR9954 KEYED REMOVABLE MULLION TO BE USED WITH VON DUPRIN HARDWARE ONLY.

YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT)
HORIZONTAL/VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
3941 E. DANIA BEACH BLVD., STE 338, DANIA BEACH, FL 33004
PH: (954)934-8478
FAX: (305)749-4158
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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HARDWARE UPDATE	SH	9/13/22
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DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 10

Page 12 of 21

1 A872 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 3**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA — STEFANO De LUCA — AR0014815 — REGISTERED ARCHITECT

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CHIPOTLE MEXICAN GRILL, INC.
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COLUMBUS, OH 43218-2566
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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

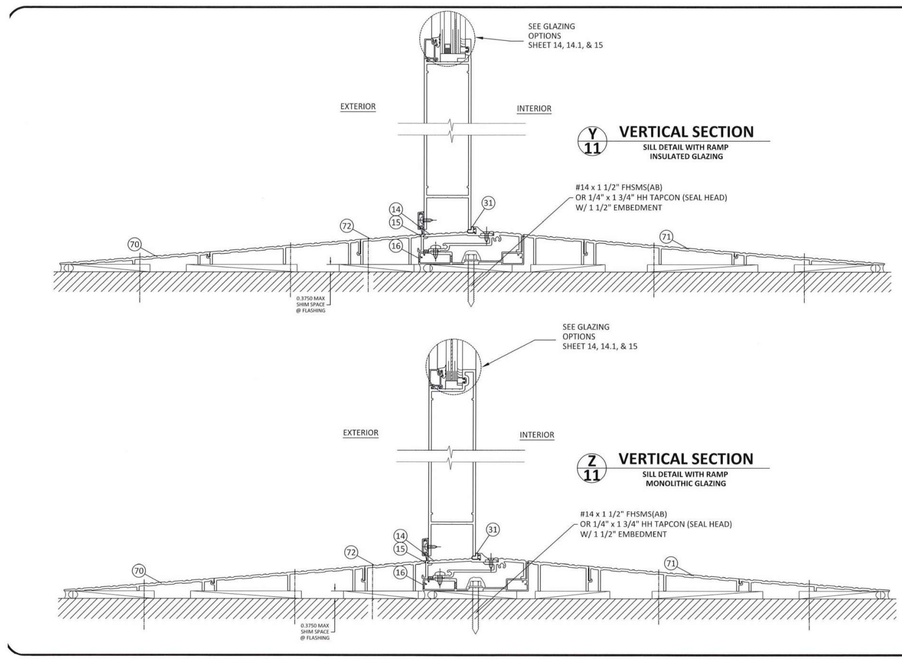
Drawn: ARL
Checked: SDL

Project No.: CMG2321

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PRODUCT APPROVAL - STOREFRONT DOORS

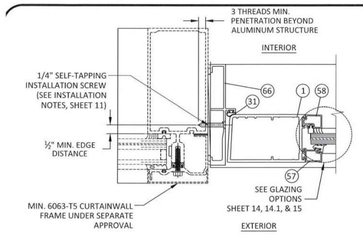
A872

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF



Y 11 VERTICAL SECTION
SILL DETAIL WITH RAMP
INSULATED GLAZING

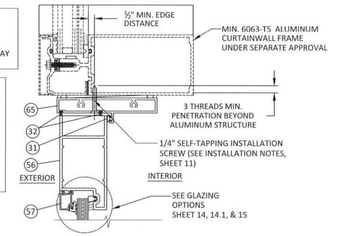
Z 11 VERTICAL SECTION
SILL DETAIL WITH RAMP
MONOLITHIC GLAZING



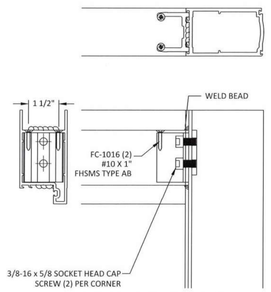
AA 12 HORIZONTAL SECTION
JAMB - SUBFRAME TO CURTAINWALL

NOTES:
A. CURTAINWALL SUBFRAME IS LIMITED TO A MAXIMUM SIZE OF 78 ½" X 98 ½" FOR ALL HARDWARE TYPES.
B. BUTT HINGE SHOWN, CONTINUOUS HINGES MAY ALSO BE USED.

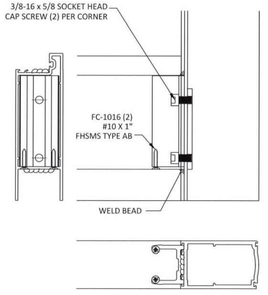
INSTALLATION NOTES:
A. AT HEAD, USE CLUSTERS OF (3) ANCHORS AT EACH CORNER, SPACED 4 ½" MAX. FROM CORNERS AND 3" O.C. THEREAFTER. (DOUBLE DOORS ONLY) AT HEAD, USE CLUSTER OF (8) ANCHORS AT MIDSPAN, SPACED 2" FROM EITHER SIDE OF MIDSPAN AND 3" O.C. THEREAFTER.
B. AT JAMBS, USE ANCHORS SPACED 5 ½" MAX. FROM CORNERS AND 9 ¾" MAX. O.C. THEREAFTER.
C.



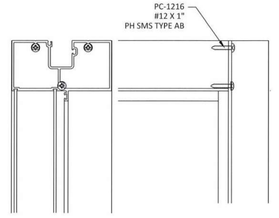
AB 12 VERTICAL SECTION
HEAD - SUBFRAME TO CURTAINWALL
OPTIONAL
(STANDARD IN 8/5)



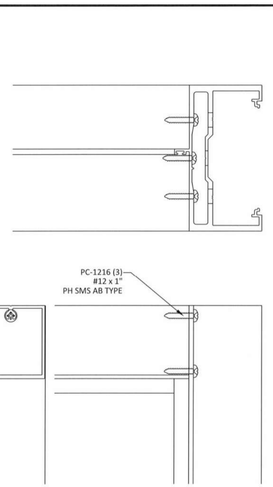
DOOR CORNER DETAIL 1
HEAD - TYPICAL



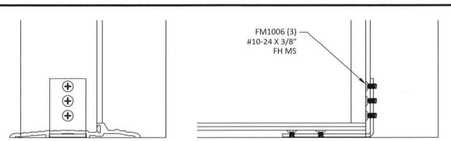
DOOR CORNER DETAIL 2
SILL - TYPICAL



CW WITH STANDARD TRANSOM DETAIL 3

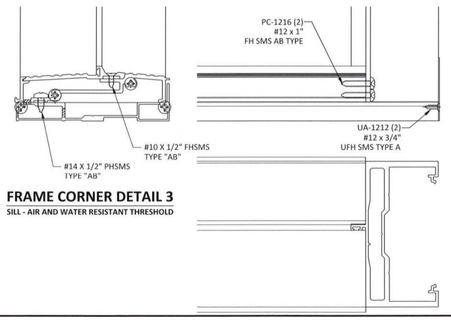


FRAME CORNER DETAIL 1
HEAD - TYPICAL



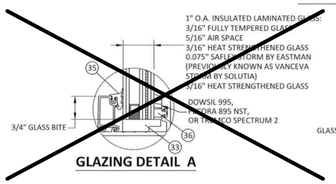
FRAME CORNER DETAIL 2
SILL - 4 ⅝" AIR TIGHT THRESHOLD

THRESHOLD CLIP PART NO. 29 (E1-1056) IS NOT REQUIRED IN APPLICATIONS WITH RIXSON PIVOTS OR SINGLE DOORS WITH THE VON DUPRIN 9947 DEVICES.

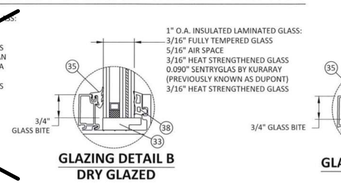


FRAME CORNER DETAIL 3
SILL - AIR AND WATER RESISTANT THRESHOLD

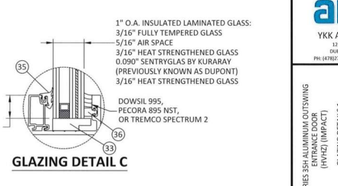
LARGE & SMALL MISSILE IMPACT



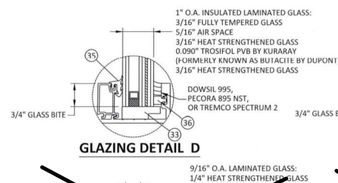
GLAZING DETAIL A



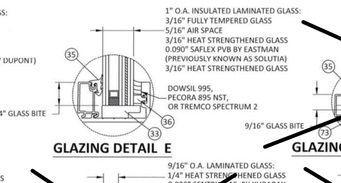
GLAZING DETAIL B
DRY GLAZED



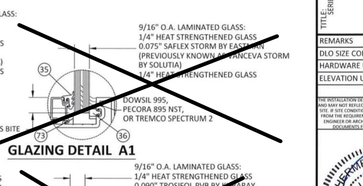
GLAZING DETAIL C



GLAZING DETAIL D



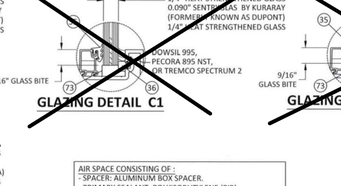
GLAZING DETAIL E



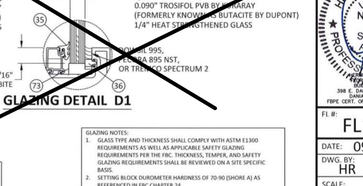
GLAZING DETAIL A1



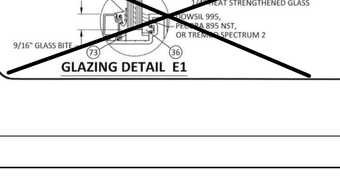
GLAZING DETAIL B1
DRY GLAZED



GLAZING DETAIL C1



GLAZING DETAIL D1



GLAZING DETAIL E1

AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.

GLAZING NOTES:
1. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. DOOR D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN ON SHEET 1. TRANSOM D.L.O. SHALL NOT EXCEED DIMENSIONS SHOWN ON SHEETS 2, 3, 3.1, & 3.2, AND DESIGN PRESSURES SHALL NOT EXCEED VALUES SHOWN ON SHEETS 14.1 & AND 15.

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR SYSTEM - SINGLE DOOR FRAME CORNER DETAILS

SILL DETAIL WITH RAMP

PREPARED BY: BUILDING DROPS, INC. 308 E. DANIA BEACH, FL 33004 PH: (954)914-4738 FAX: (954)914-4739 WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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JEROME ST. NORBERT LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Certificate of Authorization #27241 for LCC
308 E. DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 11

Page 13 of 21

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR SYSTEM (HVHZ) (IMPACT) CURTAINWALL INSTALLATION & DOOR CORNER DETAILS

PREPARED BY: BUILDING DROPS, INC. 308 E. DANIA BEACH, FL 33004 PH: (954)914-4738 FAX: (954)914-4739 WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
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Certificate of Authorization #27241 for LCC
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SCALE: NTS
DWG. #: YKK020
SHEET: 12

Page 14 of 21

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR SYSTEM (HVHZ) (IMPACT) GLAZING DETAILS 1

PREPARED BY: BUILDING DROPS, INC. 308 E. DANIA BEACH, FL 33004 PH: (954)914-4738 FAX: (954)914-4739 WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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308 E. DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004
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FL #: FL16554
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DWG. #: YKK020
SHEET: 13

Page 15 of 21

YKK AP America Inc.
1220 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING ENTRANCE DOOR SYSTEM (HVHZ) (IMPACT) GLAZING DETAILS 2

PREPARED BY: BUILDING DROPS, INC. 308 E. DANIA BEACH, FL 33004 PH: (954)914-4738 FAX: (954)914-4739 WEB: www.buildingdrops.com

REMARKS	BY	DATE
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SCALE: NTS
DWG. #: YKK020
SHEET: 14

Page 16 of 21

1 / A873 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 4**
1 : 5

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815



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PO BOX 182566
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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

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Checked: SDL

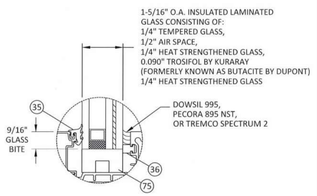
Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT DOORS

A873

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF

LARGE & SMALL MISSILE IMPACT CONTINUED

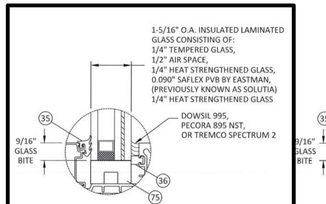


1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" TROSIFOL BY KURARAY (FORMERLY KNOWN AS BUTACITE BY DUPONT)
1/4" HEAT STRENGTHENED GLASS

DOWSIL 995, PECORA 895 NST, OR TREMCO SPECTRUM 2

GLAZING DETAIL F
TRANSOM

DP LIMIT	
+50	-50

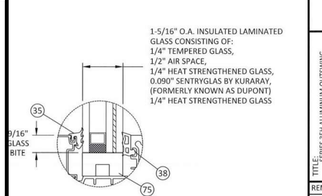


1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" SAFLEX PVB BY EASTMAN, (PREVIOUSLY KNOWN AS SOLUTIA)
1/4" HEAT STRENGTHENED GLASS

DOWSIL 995, PECORA 895 NST, OR TREMCO SPECTRUM 2

GLAZING DETAIL G
TRANSOM

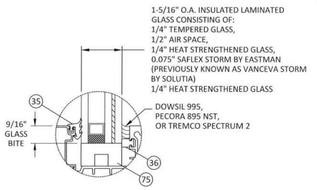
DP LIMIT	
+50	-50



1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" SENTRYGLAS BY KURARAY, (FORMERLY KNOWN AS DUPONT)
1/4" HEAT STRENGTHENED GLASS

GLAZING DETAIL H
DRY GLAZED
TRANSOM

DP LIMIT	
+70	-90

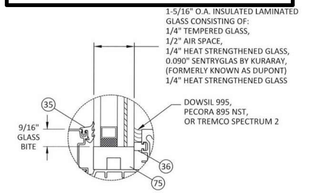


1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.075" SAFLEX STORM BY EASTMAN (PREVIOUSLY KNOWN AS VANCEVA STORM BY SOLUTIA)
1/4" HEAT STRENGTHENED GLASS

DOWSIL 995, PECORA 895 NST, OR TREMCO SPECTRUM 2

GLAZING DETAIL I
TRANSOM

DP LIMIT	
+70	-70



1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" SENTRYGLAS BY KURARAY, (FORMERLY KNOWN AS DUPONT)
1/4" HEAT STRENGTHENED GLASS

DOWSIL 995, PECORA 895 NST, OR TREMCO SPECTRUM 2

GLAZING DETAIL J
TRANSOM

DP LIMIT	
+70	-70

AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.

GLAZING NOTES:
1. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. DOOR D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN ON SHEET 1. TRANSOM D.L.O. SHALL NOT EXCED DIMENSIONS SHOWN ON SHEETS 2, 3, 3.1, & 3.2, AND DESIGN PRESSURES SHALL NOT EXCEED VALUES SHOWN ON SHEETS 14.1 & AND 15.

YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING STOREFRONT DOOR (HVHZ) (IMPACT) GLAZING DETAILS 1 CONTINUED

PREPARED BY: BUILDING DROPS, INC.
3841 E. DANA BEACH PL. STE. 338
DANIA BEACH, FL 33004
PH: (954)599-6478
FAX: (954)764-9738
WEB: www.buildingdrops.com

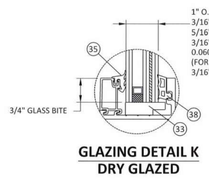
REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORCROSS LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOT VALID WITHOUT SIGNATURE AND SEAL
BUILDING DROPS, INC. CERT. OF AUTHORIZATION No. 29578
398 E. DANA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

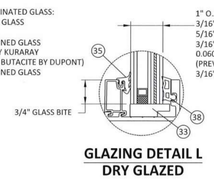
FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 14.1

SMALL MISSILE IMPACT ONLY



1" O.A. INSULATED LAMINATED GLASS:
3/16" FULLY TEMPERED GLASS
5/16" AIR SPACE
3/16" HEAT STRENGTHENED GLASS
0.060" TROSIFOL PVB BY KURARAY (FORMERLY KNOWN AS BUTACITE BY DUPONT)
3/16" HEAT STRENGTHENED GLASS

GLAZING DETAIL K
DRY GLAZED



1" O.A. INSULATED LAMINATED GLASS:
3/16" FULLY TEMPERED GLASS
5/16" AIR SPACE
3/16" HEAT STRENGTHENED GLASS
0.060" SAFLEX PVB BY EASTMAN (PREVIOUSLY KNOWN AS SOLUTIA)
3/16" HEAT STRENGTHENED GLASS

GLAZING DETAIL L
DRY GLAZED



1" O.A. INSULATED LAMINATED GLASS:
3/16" FULLY TEMPERED GLASS
5/16" AIR SPACE
3/16" HEAT STRENGTHENED GLASS
0.035" SENTRYGLAS BY KURARAY
FORMERLY KNOWN AS DUPONT)
3/16" HEAT STRENGTHENED GLASS

GLAZING DETAIL M
DRY GLAZED



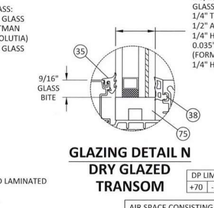
9/16" O.A. LAMINATED GLASS:
1/4" HEAT STRENGTHENED GLASS
0.060" TROSIFOL PVB BY KURARAY
(FORMERLY KNOWN AS BUTACITE BY DUPONT)
1/4" HEAT STRENGTHENED GLASS

GLAZING DETAIL K1
DRY GLAZED



9/16" O.A. LAMINATED GLASS:
1/4" HEAT STRENGTHENED GLASS
0.060" SAFLEX PVB BY EASTMAN
(PREVIOUSLY KNOWN AS SOLUTIA)
1/4" HEAT STRENGTHENED GLASS

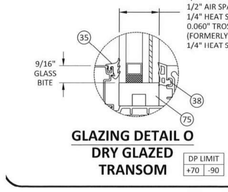
GLAZING DETAIL L1
DRY GLAZED



1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" SAFLEX PVB BY EASTMAN, (PREVIOUSLY KNOWN AS SOLUTIA)
1/4" HEAT STRENGTHENED GLASS

GLAZING DETAIL N
DRY GLAZED
TRANSOM

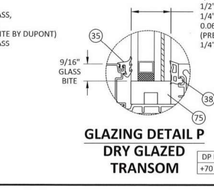
DP LIMIT	
+70	-90



1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" TROSIFOL BY KURARAY,
(FORMERLY KNOWN AS BUTACITE BY DUPONT)
1/4" HEAT STRENGTHENED GLASS

GLAZING DETAIL O
DRY GLAZED
TRANSOM

DP LIMIT	
+70	-90



1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" SAFLEX PVB BY EASTMAN, (PREVIOUSLY KNOWN AS SOLUTIA)
1/4" HEAT STRENGTHENED GLASS

GLAZING DETAIL P
DRY GLAZED
TRANSOM

DP LIMIT	
+70	-70

AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.

GLAZING NOTES:
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YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING STOREFRONT DOOR (HVHZ) (IMPACT) GLAZING DETAILS 2

PREPARED BY: BUILDING DROPS, INC.
3841 E. DANA BEACH PL. STE. 338
DANIA BEACH, FL 33004
PH: (954)599-6478
FAX: (954)764-9738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

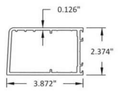
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BUILDING DROPS, INC. CERT. OF AUTHORIZATION No. 29578
398 E. DANA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 15

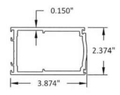
35H DOOR BILL OF MATERIAL

ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER
1	E9-0222	PIVOT STILE	6063-T5	YKK AP
2	E9-9130	MULLION 3-1/4	6063-T5	YKK AP
3	E9-0223	MEETING STILE	6063-T5	YKK AP
4	E9-0236	CONTINUOUS HINGE STILE	6063-T5	YKK AP
5	E9-0251	8" BOTTOM RAIL INS.	6063-T5	YKK AP
6	E9-0253	TOP RAIL INS.	6063-T5	YKK AP
7	E9-0255	EXTERIOR GLASS STOP INS.	6063-T5	YKK AP
8	E9-0254	INTERIOR GLASS STOP INS.	6063-T5	YKK AP
9	E9-0347	DOOR SWEEP BASE	6063-T5	YKK AP
10	E9-0348	DOOR SWEEP COVER	6063-T5	YKK AP
11	E9-9504	DOOR JAMB	6063-T6	YKK AP
12	E9-0501	MONO. TRANSOM MULL	6063-T5	YKK AP
13	E9-0487	4 1/2"AIRTIGHT THRESHOLD	6063-T5	YKK AP
14	E9-0503	THRESHOLD ATTACHMENT	6063-T5	YKK AP
15	E9-0502	THRESHOLD	6063-T5	YKK AP
16	E9-0619	SILL FLASHING	6063-T5	YKK AP
17	E9-0522	REMOVABLE MULLION	6063-T5	YKK AP
18	E9-0227	SHEAR CLIP	6063-T5	YKK AP
19	E9-0231	LOCK BASE	6063-T5	YKK AP
20	E9-0510	HINGE BACKER	6063-T5	YKK AP
21	E9-0657	FLAT FILLER	6063-T5	YKK AP
22	E1-0311	BACKER PLATE	STEEL	
23	E1-0312	BACKER PLATE	STEEL	
24	E1-0351	JOINT CLIP	6063-T5	YKK AP
25	E1-0353	LOCK BASE	6063-T5	YKK AP
26	E1-0357	HINGE BACK PLATE	6063-T5	YKK AP
27	E1-0381	JOINT CLIP	6063-T5	YKK AP
28	E1-1050	END DAM	6063-T5	YKK AP
29	E1-1056	THRESHOLD CLIP	STEEL	
30	E1-1068	FLAT FILLER	6063-T5	YKK AP
31	E2-0051	AIRTIGHT GASKET	PVC	
32	E-SWM-2	WEATHERSTRIP	POLYPROPYLENE	
33	E2-0063	SETTING BLOCK	EPDM	
34	E2-0067	DOOR SWEEP GASKET	EPDM	
35	E2-0083	EXTERIOR GASKET	EPDM	
36	E2-0085	SPACER GASKET	PC EPDM	
37	E2-0087	WEATHERSTRIP	POLYPROPYLENE	
38	E2-0088	INTERIOR GASKET	EPDM	
39	E2-0093	ASTRAGAL GASKET	SILICONE	
40	E3-0005	ADJUSTABLE CAP	NYLON	
41	E4-0001	STANDARD LABEL	ALUMINUM	
42	E4-0028	IMPACT LABEL	ALUMINUM	
43	FC-1016	FH SMS	STEEL	
44	SM-3810	SH CAP SCREW	STEEL	
45	E9-0238	BOTTOM RAIL EXT. MONO.	6063-T5	YKK AP
46	2760	CONTINUOUS HINGE		SELECT
47	780-226HD	CONTINUOUS HINGE		HAGAR-ROTON
48	BB1191	BUTT HINGES	STAINLESS STEEL	HAGAR
49	E9-0601	MONO TRANSOM HEADER	6063-T5	YKK AP
50	E9-0651	I.G. TRANSOM HEADER	6063-T5	YKK AP
51	E9-0520	MONO TRANSOM MULL	6063-T5	YKK AP
52	E9-0521	I.G. TRANSOM MULL	6063-T5	YKK AP
53	E9-0218	TRANSOM DOOR STOP	6063-T5	YKK AP
54	E1-1073	TRANSOM HEAD FILLER	6063-T5	YKK AP
55	E9-0221	7" BOTTOM RAIL MONO	6063-T5	YKK AP
56	E9-0220	TOP RAIL MONO	6063-T5	YKK AP
57	E9-0225	EXT. GLASS STOP MONO	6063-T5	YKK AP
58	E9-0226	INT. GLASS STOP MONO	6063-T5	YKK AP
59	E9-0217	MIDRAIL FILLER	6063-T5	YKK AP
60	E9-0237	PANIC MIDRAIL	6063-T5	YKK AP
61	E9-0235	8" BOTTOM RAIL MONO	6063-T5	YKK AP
62	E9-0517	I.G. TRANSOM MULL	6063-T5	YKK AP
63	E9-0245	I.G. BOTTOM RAIL EXT.	6063-T5	YKK AP
64	E1-0197	REIN. MULL REINF.	STEEL (MIN. A36)	YKK AP
65	E9-3181	CW SUBFRAME - HEAD	6063-T5	YKK AP
66	E9-3180	CW SUBFRAME - JAMBS	6063-T5	YKK AP
67	E9-8344	2 1/2" CROSS RAIL	6063-T5	YKK AP
68	E9-0233	10" BOTTOM RAIL MONO.	6063-T5	YKK AP
69	E9-0252	10" BOTTOM RAIL INS.	6063-T5	YKK AP
70	E9-0511	THRESHOLD RAMP	6063-T5	YKK AP
71	E9-0512	THRESHOLD RAMP	6063-T5	YKK AP
72	E9-0513	THRESHOLD RAMP	6063-T5	YKK AP
73	E2-0086	SETTING BLOCK	EPDM	
74	E2-0737	SETTING BLOCK	EPDM	
75	E2-0095	SETTING BLOCK	EPDM	
76	E1-0370	SHEAR BLOCK	6063-T5	YKK AP
77	BB-1199	HAGER BUTT HINGE	STAINLESS STEEL	HAGER

1 PIVOT STILE
6063-T5



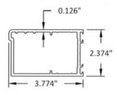
2 MEETING STILE
6063-T5



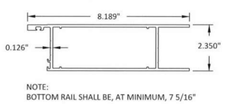
3 MEETING STILE
6063-T5



4 CONTINUOUS HINGE STILE
6063-T5

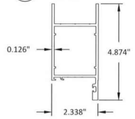


5 8" BOTTOM RAIL INS.
6063-T5

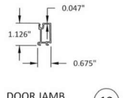


NOTE:
BOTTOM RAIL SHALL BE, AT MINIMUM, 7 5/16"

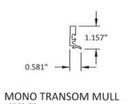
6 TOP RAIL INS
6063-T5



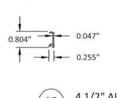
7 EXTERIOR GLASS STOP INS.
6063-T5



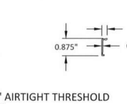
8 INT. GLASS STOP INS.
6063-T5



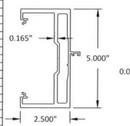
9 DOOR SWEEP BASE
6063-T5



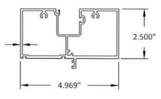
10 DOOR SWEEP COVER
6063-T5



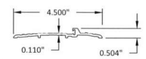
11 DOOR JAMB
6063-T6



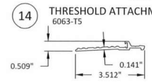
12 MONO TRANSOM MULL
6063-T5



13 4 1/2" AIRTIGHT THRESHOLD
6063-T5



14 THRESHOLD ATTACHMENT
6063-T5



YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING STOREFRONT DOOR (HVHZ) (IMPACT) COMPONENTS & BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
3841 E. DANA BEACH PL. STE. 338
DANIA BEACH, FL 33004
PH: (954)599-6478
FAX: (954)764-9738
WEB: www.buildingdrops.com

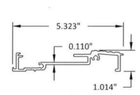
REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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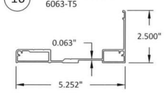
HERMES F. NORCROSS LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOT VALID WITHOUT SIGNATURE AND SEAL
BUILDING DROPS, INC. CERT. OF AUTHORIZATION No. 29578
398 E. DANA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 16

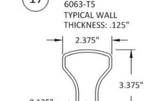
15 THRESHOLD
6063-T5



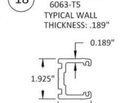
16 SILL FLASHING
6063-T5



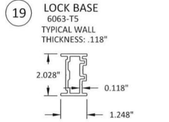
17 REMOVABLE MULLION
6063-T5
TYPICAL WALL THICKNESS: .125"



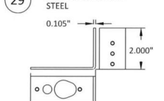
18 SHEAR CLIP
6063-T5
TYPICAL WALL THICKNESS: .189"



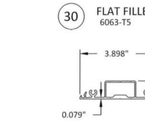
19 LOCK BASE
6063-T5
TYPICAL WALL THICKNESS: .118"



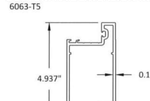
29 THRESHOLD CLIP
STEEL



30 FLAT FILLER
6063-T5



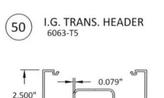
45 BOTTOM RAIL EXTENSION MONO.
6063-T5



49 MONO TRANS. HEADER
6063-T5



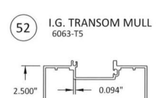
50 I.G. TRANS. HEADER
6063-T5



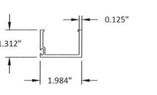
51 MONO TRANSOM MULL
6063-T5



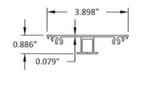
52 I.G. TRANSOM MULL
6063-T5



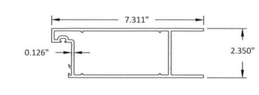
53 TRANSOM DOOR STOP
6063-T5



54 TRANSOM HEAD FILLER
6063-T5



55 7" BOTTOM RAIL MONO.
6063-T5



YKK AP Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 35H ALUMINUM OUTSWING STOREFRONT DOOR (HVHZ) (IMPACT) COMPONENTS (1)

PREPARED BY: BUILDING DROPS, INC.
3841 E. DANA BEACH PL. STE. 338
DANIA BEACH, FL 33004
PH: (954)599-6478
FAX: (954)764-9738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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HERMES F. NORCROSS LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOT VALID WITHOUT SIGNATURE AND SEAL
BUILDING DROPS, INC. CERT. OF AUTHORIZATION No. 29578
398 E. DANA BEACH BLVD. # 338 DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL16554
DATE: 09.14.18
DWG. BY: HR | CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 17

1 / A874 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 5**
N.T.S.

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815
STATE OF FLORIDA · STEFANO De LUCA · REGISTERED ARCHITECT · AR0014815

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

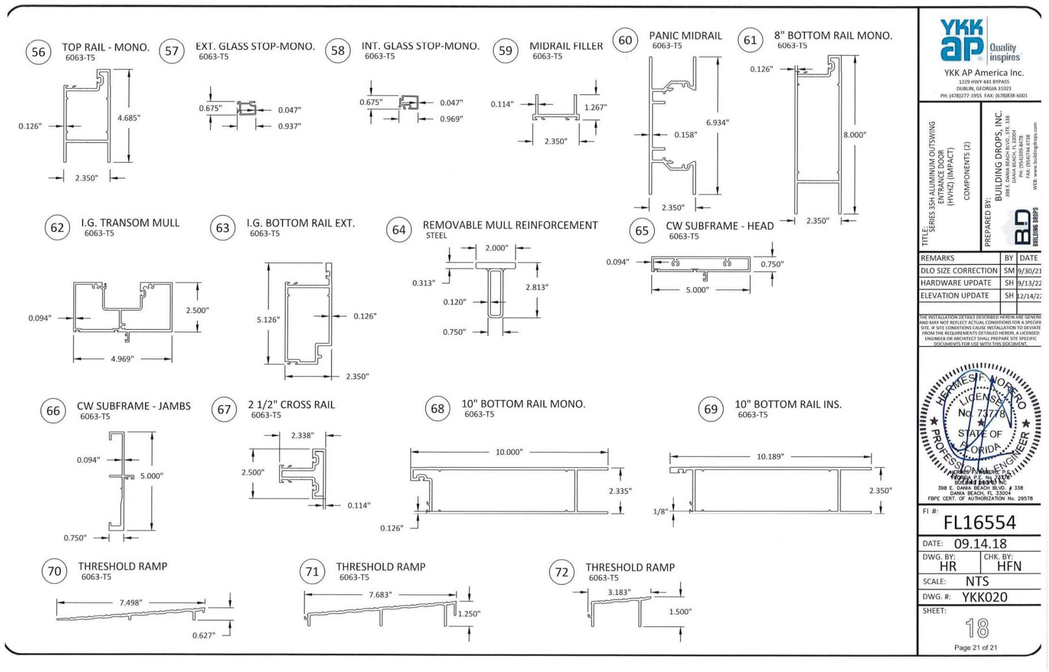
Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT DOORS

A874

ALLOWABLE DESIGN PRESURE = +/- 65.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-45 PSF



YKK ap Quality inspires
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 33SH ALUMINUM OUTSWING ENTRANCE DOOR (HVHZ) (IMPACT) COMPONENTS (2)

PREPARED BY: BUILDING DROPS, INC.
3661 DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33312
PH: (954)558-8328
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DLO SIZE CORRECTION	SM	9/30/21
HARDWARE UPDATE	SH	9/13/22
ELEVATION UPDATE	SH	12/14/22

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HERMES F. NORIEGA V
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SIGNATURE DATE
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER
368 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FI #: FL16554
DATE: 09.14.18
DWG. BY: HR
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK020
SHEET: 18
Page 21 of 21

1 A875 **STOREFRONT DOORS PRODUCT APPROVAL - SHEET 6**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - STOREFRONT DOORS

A875

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Schlage Lock Company
11819 N. Pennsylvania Street
Carmel, IN 46032

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: SteelCraft H Series Single Flush Outswing Commercial Steel Door w/no Panic Exit-LMI

APPROVAL DOCUMENT: Drawing No **IRFS07 Rev P**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 14 of 14, prepared by the manufacturer, dated 05-20-07 and last revised on 07/18/2022, signed and sealed by Hermes F. Norero, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact
Limitations:

1. See sheets **1** & **2** for Design Pressures, Sizes and Hardware. See sheets **5** and **6** for door sizes VS threshold types, brand and water infiltration limitations. Lower design Pressure shall control the entire assembly.
2. Use of Ives viewers (model U696/U698) is limited to +/-75 PSF.
3. The top strike plates **338** and **4188** can be used w/wo roller option for Concealed Rod Panic devices (CVR) shown in sheet **9.**
4. Electrical/Electronic functions and Fire ratings are **not** part of this approval, such functions to be reviewed and approved by AHJ.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises** & **renews NOA #20-1005.18** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5, E-6 and E-7, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022
Page 1

Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS: (continue)
4. Department of State Certification of Reinstatement for **SCHLAGE LOCK COMPANY, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/17/06 and filed with the Secretary of State
5. Certification of Formation dated 12-08-2003 of Schlage Lock Company, LLC, issued by Secretary of State of Delaware.
6. Statement letter dated Nov. 26, 2013 issued by Ingersoll-Rand for name change, signed by Jim Donlan, Compliance Engineer.
7. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.
8. Addendum letters dated Feb 20, 2009 for test reports Test report CTLA-1035W, issued by Certified Testing lab, signed and sealed by Ramesh Patel, P.E
9. Addendum letter dated DEC 19, 2011, issued by Certified Testing Lab verifying wire anchors, strength of grout, stud anchor, Strike plate and MA series Mortise Lock, supplemented w/ marked-up drawings, signed and sealed by Ramesh Patel, P.E.

G. OTHER
1. This NOA **revises** & **renews NOA #17-0326.06,** expiring on 05/05/23.
2. Test proposals # **14-0252**, -**0254**, #**14-1086**, #**14-0254-R1** and #**12-0797R** approved by RER.
3. Consolidation Test proposal # **06-2468**, dated 04/27/07 approved by BCCO.
4. Technical brochures of butt Hinges, continuous Hinges, Schlage & Falcon Mortise Locks, Supplied by Schlage Company (former Ingersoll-Rand).

3. Evidence submitted in previous NOA

A. DRAWINGS
1. Drawing No **IRFS07 Rev M**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 14 of 14, prepared by the manufacturer, dated 05-20-07 and last revised on 03/29/18, signed and sealed by Hermes F. Norero, P.E.

B. TEST
1. Test report on
   1) Uniform Static Air Pressure Test, Loading per TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with manufacturer's parts and section drawings of Single outswing Flush steel doors w/ SVR and top Strike #338 w/roller, issued by UL Testing Lab, Test Reports No(s). **SV31245-20190521** dated SEP 03, 2019, signed and sealed by Alex Spyrou, P.E.

Along with manufacturer's parts and section drawings of Single outswing glazed steel doors w/ SVR and top Strike #338 w/roller, issued by UL Testing Lab, Test Reports No(s). **SV31245-20190624** dated SEP 03, 2019, signed and sealed by Alex Spyrou, P.E.

C. CALCULATIONS
1. None

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -4

Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. **Evidence submitted under previous approvals**

A. DRAWINGS
1. Manufacturer's parts and sections drawings (Submitted under file as below).
2. Drawing No **IRFS07 Rev L**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 15 of 15, prepared by the manufacturer, dated 05-20-07 and last revised on 08/11/15, signed and sealed by Thomas Gordon, P.E.

B. TESTS (Submitted under files #**15-0826.23**/#**13-1217.16**/#**12-0305.14/ #10-0209.07/#07-0829.04**)
1. Test report on
   1) Air Infiltration Test, per TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per TAS 202-94
   3) Large Missile Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of Single outswing steel doors w/ Stainless steel continuous Hinges & modified Hat stiffeners, marked by Certified Testing Lab, Test Reports No(s). **CTLA-3045W** dated February 16, 2015, signed and sealed by Ramesh Patel, P.E.

Along with manufacturer's parts and section drawings of double outswing steel doors w/CVC panic exit and Peep hole, marked by Element Material Technology, Test Reports No(s). **ESP011623P** dated May 14, 2013, signed and sealed by Jason Sheen, P.E.

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by National Certified Testing Lab, Test Reports No. **NCTL-210- 3580-2,** dated March 25, 2009, signed and sealed by Gerry Ferrara, P. E.

2. Test reports
   1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
   2) Water Resistance Test per FBC TAS 202-94

Along with marked-up drawings and installation diagram of double steel commercial doors, prepared by National Certified Testing Laboratories Inc., Test Report No. **NCTL- 210-03-0514-11**, dated August 31, 2004, **NCTL 210- 03-3511-1** dated 04/09/08 and **NCTL 210- 03-3549-1** dated 08/26/08, all signed and sealed by Gerry Ferrara, P. E.
Note: Test report No(s): NCTL210-3549-1 and NCTL-210-3511-1 have been revised by an addendum letter, issued by Lab, dated Feb. 04, 2009, signed & sealed by Gerard J. Ferrara, P. E

3. Test report on (submitted under file # **07-0829.04**)
   1) Air Infiltration Test, per TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per TAS 202-94
   3) Large Missile Impact Test per FBC, TAS 201-94
   4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of double-glazed outswing steel doors, marked by Certified Testing Lab, Test Reports No(s). **CTLA-776W** dated February 20, 2002, **CTLA-975W** dated Jan 23, 2003, **CTLA-882W** dated Aug 29, 2002, **CTLA-1035W** dated May 28, 2003 and, **CTLA-1086-W** dated Nov. 17, 2003 and **CTLA-1107W-3** dated June 30, 2004, all signed and sealed by Ramesh Patel, P.E. (this report has addendum letter dated Feb 20, 2009, signed and sealed by Ramesh Patel, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -1

Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. None

F. STATEMENTS (submitted under file **# 17-0426.02**)
1. Statement letter of conformance to FBC 2017(6th edition) dated 02-08-2018, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.
2. Statement letter of adopting another Engineer's work per Florida Rules 61G615-27 dated March 14, 2017, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.

G. OTHER
1. This NOA **revises NOA # 17-0426.02**, expiring 05/05/23.
2. Optional CVR top strikes #338 w/wo Roller (see below)





4. Evidence submitted previous approval

A. DRAWINGS
1. Drawing No **IRFS07 Rev N**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 14 of 14, prepared by the manufacturer, dated 05-20-07 and last revised on 03/04/2020, signed and sealed by Hermes F. Norero, P.E.

B. TEST
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS (submitted under file # **19-1016.03**)
1. Statement letter of conformance to FBC 2017(6th edition) dated 02-08-2018, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.
2. Application request of address change only by Schlage Lock company, signed by Donald James.

G. OTHER
1. This NOA **revises NOA # 19-1016.03**, expiring 05/05/23.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -5

Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS: (Submitted under file # **15-0826.23**)
1. Anchor verification calculation complying w/ FBC 2014(5th Edition) dated 08/10/15, prepared, signed & sealed by Thomas Gordon., P.E.
2. Hinge Load Evaluation report dtd 01/04/04, prepared, signed & sealed by Thomas Gordon, P.E. (Submitted under file # **10-0209.09**)

D. QUALITY ASSURANCE BY
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS (submitted under files #**12-0305.16/# 10-0209.09**)
1. Material composition & Flammability properties and Material Safety Data sheet of Pyrophobic P25C-60 core by Pyrophobic System LTD, dated DEC 05, 2010, issued by I. Zhvanetsky, chemical consultant.
2. Material composition & Flammability properties and Material Safety Data sheet of Calcium Silicate mineral block, issued by Marshfield Door Sys, Inc., Marshfield. WI 54449
3. Test Report No. **12-11177**, Nov 29, 2012, issued by Commercial Testing Co. for "Surface Flame spread & Smoke density Characteristics of Building material" per ASTME84-12 for "Elfoam P200", issued to Elliott Co. of Indianapolis Inc.
4. Test Report No. **16206-122543 (1015P200(3))**, dated November 29, 2004 for "Surface Burning Characteristics of Bldg material" per ASTME84 and self-Ignition per ASTM1929D for "Polyisocyanurate" issued by Omega Point Laboratories, Inc. to Elliot Co., Indianapolis, IN.
5. Tensile test report # CTLA-776W (0194H), dtd 02/25/02 prepared by CTL, Architectural Division, sheet samples, tested per ASTM E8, signed & sealed by Ramesh Patel, P.E.
6. Tensile Test report No: A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTME-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
7. Test Report No. **3094867SAT-001**, April 13, 2006, issued by Intertek for "Surface Burning Characteristics of Building material" per ASTME84 and self-Ignition per ASTM1929D for "EPS", issued to Falcon Foam, a Div of Atlas Roofing, re-named as "ATLAS EPS'.

F. STATEMENTS: Except items #1, balanced items submitted under files #**13-1217.16/ #10-0209.09** and
1. Letter of conformance to **FBC 2014** and **"**No financial interest**"**, dated 09/23/15, prepared, signed and sealed by Gordon Thomas, P.E.
2. Statement letter dated Nov. 26, 2013 issued by Ingersoll-Rand for name change, signed by Jim Donlan, Compliance Engineer.
3. Ingersoll–Rand press release, dated 12/10/12, integrating the brands of Ingersoll–Rand and Schlage among others.
4. Department of State Certification of Reinstatement for **SCHLAGE LOCK COMPANY, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/17/06 and filed with the Secretary of State
5. Certification of Formation dated 12-08-2003 of Schlage Lock Company, LLC, issued by Secretary of State of Delaware.
6. Laboratory Compliance Statements issued as part of above test reports.
7. Addendum letter dated DEC 19, 2011, issued by Certified Testing Lab verifying wire anchors, strength of grout, stud anchor, Strike plate and MA series Mortise Lock, supplemented w/ marked-up drawings, signed and sealed by Ramesh Patel, P.E.
8. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -2

Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Evidence submitted previous approval

A. DRAWINGS
1. Drawing No **IRFS07 Rev O**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 14 of 14, prepared by the manufacturer, dated 05-20-07 and last revised on 01/29/2021, signed and sealed by Hermes F. Norero, P.E.

B. TEST
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of conformance to **FBC 7th Edition (2020)** and of no financial interest, dated 09/02/20, issued by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.
2. Statement letter dated 09/02/20 issued by Allegion in reference to DWG. revision changes, signed by Donlan James, code compliance Engineer.

G. OTHER
1. This NOA **revises NOA # 20-0310.08**, expiring 05/05/23.

Ishaq I. Chanda

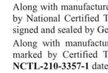
Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -6

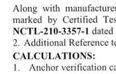
Schlage Lock Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA **revises** & **renews NOA # 20-1005.18**, expiring 05/05/28.
2. CVR Falcon 4188 (top strike) options w/wo Roller



4188 Top strike without Roller



4188 Top strike with Roller

6. New Evidence submitted

A. DRAWINGS
1. Drawing No **IRFS07 Rev P**, titled "Steelcraft H series Single Flush outswing", sheets 1 through 14 of 14, prepared by the manufacturer, dated 05-20-07 and last revised on 07/18/2022, signed and sealed by Hermes F. Norero, P.E.

B. TEST
1. Test report on
   1) Uniform Static Air Pressure Test, Loading per TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   4) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors w/ CVR Panic with Falcon 4188 w/Roller (top strike) & Falcon 2130 (bottom strike), marked by Under Writers (UL) Lab, LLC, Test Reports No. SV31245-20220217-R3, dated March 24, 2022, signed and sealed by Alexis Spyrou, P. E.

C. CALCULATIONS
1. Hilti's anchor verification calculation dated 05/04/2022, using Hilti's software prepared by Building drops, Inc, signed and sealed by Hermes F. Norero, P.E.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. None.

F. STATEMENTS
1. Statement letter of conformance to **FBC 7th Edition (2020)** and of no financial interest, dated 05-05-2022, issued by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.

G. OTHER
1. This NOA **revises** & **renews NOA # 20-1005.18**, expiring 05/05/28.
2. CVR Falcon 4188 (top strike) options w/wo Roller

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 22-0427.01
Expiration Date: May 05, 2028
Approval Date: August 04, 2022

E -7

ALLOWABLE DESIGN PRESURE = +/- 70.0 PSF
CALCULATED WIND PRESSURE (ZONE 4) = +34/-37 PSF

1 A880 **PRODUCT APPROVALS - H.M. SERVICE DOOR - SHEET 1**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

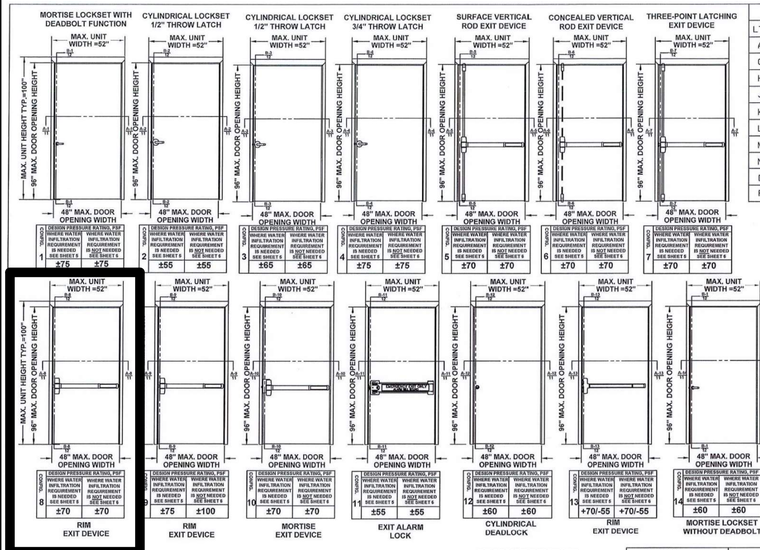
Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:
PRODUCT APPROVAL - H.M. DOOR

A880



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG YMF	05/20/07	
G	REVISED DWG YMF	01/20/10	
H	REVISED DWG YMF	04/07/10	
J	REVISED NAME JPD	11/01/13	
K	REVISED DWG JPD	02/01/15	
L	REVISED DWG JPD	05/05/15	
M	ENGINEER CHANGE LA	02/16/17	
N	ADDRESS UPDATE SM	02/27/20	
O	2020 FBC UPDATE NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE LL	04/06/22	

NOTE:
SEE SHEETS 5 & 6 FOR THRESHOLD TYPES, WEATHERSTRIP COMPONENTS, DOOR SIZE, AND DP LIMITATIONS.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishaq I. Check
Miami-Dade Product Control

HERMES L. NORERO JR. LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes L. Norero Jr. P.E. 73778
This item has been digitally signed and sealed by Hermes L. Norero Jr. P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
FBPE CERT. OF AUTHORIZATION No. 29378

COMPLIANCE STATEMENT:
1. THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202 & 203-94 AND COMPLY WITH THE 2020 (7TH EDITION) FLORIDA BUILDING CODE.

NOTES:
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS
2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS AND LIMITATIONS
3. SEE SHEETS 3 & 14 FOR HINGE REQUIREMENTS AND OPTIONS
4. SEE SHEET 4 FOR ANCHORING TYPES AND LIMITATIONS, SEE SHEETS 3, 5 AND 6 FOR SILL INSTALLATION DETAILS & CAULKING.
5. SEE SHEET 5 TABLES 3.1 AND 3.2 FOR WATER RATED THRESHOLD AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
6. SEE SHEET 5 TABLES 4.1 AND 4.2 FOR NON WATER RATED THRESHOLD AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
7. ALL CONFIGURATIONS MEET LARGE AND SMALL MISSILE IMPACT REQUIREMENTS - LARGE MISSILE IMPACT AT (50 F/S)

BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF 05/20/07	MIAMI-DADE COUNTY PRODUCT APPROVAL FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS COMMERCIAL DOOR OPENING SINGLE FLUSH DOORS.	
CHECKED		
APPROVED	SIZE FLAT DWG NO. IRFS07 REV P	
ENG. APPVL JPD 10/11/07	SCALE: NTS AUTOCAD SHEET 1 of 14	

Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, In.		Locking Hardware Description				Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	Brand	
1	75	75	48	96	Mortise Lock	L/LV9400/AD/CO MD	10-072	Schlage	Functions with deadbolt, 3/4" min. throw latch & 1" min. throw deadbolt
	75	75	48	96	Mortise Lock	MA	ANSI	Falcon	
2	55	55	48	96	Cylindrical Lock	AL	10-025	Schlage	1/2" throw latch
3	65	65	48	96	Cylindrical Lock	D/ND/AD/CO CYL	10-025	Schlage	1/2" throw latch
4	75	75	48	96	Cylindrical Lock	D/ND/AD/CO CYL	10-025	Schlage	3/4" throw latch
	75	75	48	96	Cylindrical Lock	T	ANSI	Falcon	3/4" throw latch
5	70	70	48	96	Surface Vertical Rod Exit Device	9827, 9927, 9827-F, 9927-F	299F/499F Top, 304L Bottom	Von Duprin	
	70	70	48	96	Surface Vertical Rod Exit Device	25-V, F-25-V	3788 Top, 2130 Bottom	Falcon	
6	70	70	48	96	Concealed Vertical Rod Exit Device	9847-F, 9947-F, HH9847, HH9947	338 Top, 304L Bottom	Von Duprin	HH98/9947 devices have a 2-3/4" backset
	70	70	48	96	Concealed Vertical Rod Exit Device	F-25-C	4188 Top, 2130 Bottom	Falcon	4188 for use with or without roller
7	70	70	48	96	Three-Point Latching Device	9857, 9957, 9857-F, 9957-F	299F/499F Top/Middle, 304L Bottom	Von Duprin	
8	70	70	48	96	Rim Exit Device	98, 99, 98-F, 99-F	299F/499F	Von Duprin	
	75/100 SEE NOTE 2.	75/100 SEE NOTE 2.	48	96	Rim Exit Device	XP98, XP99, XP98-F, XP99-F	909/954	Von Duprin	
10	70	70	48	96	Mortise Exit Device	9875, 9975, 9875-F, 8975-F	575	Von Duprin	
	70	70	48	96	Mortise Exit Device	8875, 8875-F	575	Von Duprin	
	70	70	48	96	Mortise Exit Device	25-M, F-25-M	1279	Falcon	
11	55	55	48	96	Exit Alarm Lock	2670 GUARD-X	267	Von Duprin	
12	60	60	48	96	Cyl. Deadlock	B600/700/800	10-055	Schlage	1" min. throw deadbolt
13	70	55	48	96	Rim Exit Device	25-R, F-25-R	299F/499F	Falcon	
14	60	60	48	96	Mortise Lock	L/LV9000/AD/CO MS	10-072	Schlage	Functions without deadbolt, 3/4" min. throw latch
	75	75	36	84	Mortise Lock	L/LV9000/AD/CO MS	10-072	Schlage	Functions without deadbolt, 3/4" min. throw latch
15	75	75	36	84	Mortise Lock	MA	ANSI	Falcon	
16	75	75	36	84	Cylindrical Lock	D/ND/AD/CO CYL	10-025	Schlage	1/2" throw latch
	75	75	36	84	Cylindrical Lock	T	ANSI	Falcon	

TABLE 1.

NOTES:
1. SEE SHEETS 8, 9 & 10 FOR LOCKING HARDWARE.
2. DOOR CONFIGURATION 9 IS RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 11A OR FOR DOOR OPENINGS UP TO 3'-0"X7'-0" WITH NGP THRESHOLD 11B AND ±50 PSF FOR DOOR OPENINGS UP TO 4'-0"X8'-0" WITH NGP THRESHOLD 11B WHEN WATER IN FILTRATION REQUIREMENT IS NEEDED. SEE SHEET 5.
2.1 DOOR CONFIGURATION 9 IS RATED FOR A MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD OPTIONS AND UP TO ±100 PSF WITH THE NGP THRESHOLD OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED. SEE SHEET 6
3. SCHLAGE AL-SERIES CYLINDRICAL LOCK, DOOR CONFIGURATION 2, IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishaq I. Check
Miami-Dade Product Control

HERMES L. NORERO JR. LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes L. Norero Jr. P.E. 73778
This item has been digitally signed and sealed by Hermes L. Norero Jr. P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
FBPE CERT. OF AUTHORIZATION No. 29378

BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF 05/20/07	MIAMI-DADE COUNTY PRODUCT APPROVAL FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS COMMERCIAL DOOR OPENING SINGLE FLUSH DOORS.	
CHECKED		
APPROVED	SIZE FLAT DWG NO. IRFS07 REV P	
ENG. APPVL JPD 10/11/07	SCALE: NTS AUTOCAD SHEET 2 of 14	

TABLE 2.

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 7 ASTM A366	.053" MIN. STL	MAX. 52"
2	1	STRIKE JAMB SEE SHT. 7 ASTM A366	.053" MIN. STL	MAX. 100"
3	1	HINGE JAMB SEE SHT 7 ASTM A366	.053" MIN. STL	MAX. 100"
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5	1	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
6	NOTE 3.	HINGE REINFORCEMENT DOOR ASTM A621	.167" MIN. STL.	1.23" X 919" MIN.
7	NOTE 3.	HINGE REINFORCEMENT FRAME ASTM A621	.167" MIN. STL.	1.5" X 1197" MIN.
8	NOTE 3.	4.5" x 4.5" BUTT HINGES OPTIONAL CONTINUOUS HINGE	.134" MIN. STL. .075" MIN. STL/.410 ALUM	(8) 312-24 MS PER HINGE MAX. 95"
9	1	CORE MATERIAL (SHT. 13A) (B) HONEYCOMB (C) STEEL STIFFENED A/71 POLYSTYRENE B/71 POLYURETHANE/POLYISOCYANURATE (D) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE – SEE SHEET 5, TABLE 1		
11	1	THRESHOLD SILL W/BUMPER GASKET 11A) 366 ZERO SEE SHT. 5 WATER RATED & & NON-WATER 11B) 950 NGP SEE SHT. 5 WATER RATED & & NON-WATER 11C) 65 ZERO SEE SHT. 6 NON-WATER RATED 11D) 568 ZERO SEE SHT. 6 NON-WATER RATED	.125" ALUM. 6063 T5 .078" ALUM. 6063 T5 .125" ALUM. 6063 T5 .125" ALUM. 6063 T5	5.0"X0.5"X48"MAX. 6.0"X0.5"X48"MAX.
12	NOTE 2.	JAMB ANCHOR ASTM A924	SEE SHEET 4	
13	SEE SHEET 6	19A) PS274 DOOR SEAL STEELCRAFT 19B)188S, 129CN175, 130N8144S, 129CN150S DOOR SEAL ZERO	TPE SILICONE	MAX. 20' MAX. 20'
14	1	FAS-SEAL DOOR SWEEP SEE SHEETS 3 & 6	TPE	MAX. 48"
15	2	END CHANNEL ASTM A924 (14 GA – INVERTED)	.067" MIN. STEEL	.69" X 1.66" X 48" MAX.
16	AS NEEDED	CAULK – BUTYL RUBBER OR 100% SILICONE	SEE SHEETS 5 & 6	
17	1	DOOR SLAB (16 OR 14 GA)	SEE SHEET 7	4' X 8' MAX.
18	1	18A) 188S DOOR SEAL BY ZERO INT'L 18B) PS074 DOOR SEAL BY STEELCRAFT	SILICONE SEE SHEET 5 TPE SEE SHEET 5	MAX. 20'
19	2	202N DOOR SEAL BY NGP	TPE SEE SHEET 5	MAX. 96"
20	1	20A) 139 DOOR SWEEP BY ZERO INT'L 20B) 328 DOOR SWEEP BY ZERO INT'L 20C) 200N DOOR SWEEP BY NGP	SEE SHEET 5	MAX. 48"
21	3	21A) 475 ADJUSTABLE SEAL BY ZERO INT'L	TPE SEE SHEET 5	MAX. 96"
	1	21B) 170N ADJUSTABLE SEAL BY NGP		
22	1	22A) 142 RAIN DRIP BY ZERO INT'L 22B) 11 RAIN DRIP BY ZERO INT'L 22C) 16A RAIN DRIP BY NGP	SEE SHEET 5	MAX. 52"
23	1	TDP CAP GALV. A60 ASTM A924	.020" MIN. STL	0.5" X 1.76" X 48" MAX.
24	1	IVES 698/698 DOOR VIEWER	BRASS	

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
C	REVISED DWGS. RAP	12/10/07	
E	REVISED DWGS. YMF	03/24/08	
F	REVISED DWGS. YMF	06/02/08	
G	REVISED DWGS. YMF	03/03/09	
H	REVISED DWGS. YMF	04/07/10	
J	REVISED NAME JPD	11/01/13	
K	REVISED DWG JPD	02/01/15	
L	REVISED DWG JPD	05/05/15	
M	ENGINEER CHANGE LA	02/16/17	
N	ADDRESS UPDATE SM	02/27/20	
O	2020 FBC UPDATE NUS	07/07/20	
P	STRIKE UPDATE LL	04/06/22	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishaq I. Check
Miami-Dade Product Control

HERMES L. NORERO JR. LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Hermes L. Norero Jr. P.E. 73778
This item has been digitally signed and sealed by Hermes L. Norero Jr. P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
FBPE CERT. OF AUTHORIZATION No. 29378

NOTES:
1. ANCHOR REQUIREMENTS:
SEE SHEET 4 FOR APPROVED ANCHORS AND INSTALLATION.
2. HINGE REQUIREMENTS: 4.5" STD WT. MIN.
FOR DOOR OPENING UP TO 90" HIGH – MIN (3) HINGES
FOR DOOR OPENING OVER 90" – 96" HIGH – MIN (4) HINGES
STD LOCATIONS: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE
10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED
IN BETWEEN. HINGE LOCATIONS MAY VARY, MAX SPACING DO NOT EXCEED 35.5" FOR 3 HINGES.
SEE SHEET 14 FOR APPROVED CONTINUOUS HINGE MODELS
3. SEE SHEETS 1, 2 & 3 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
4. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
5. 4" FACE FRAME HEAD IS AVAILABLE. SEE SHEET 4
6. APPLY CAULK TO FULL LENGTH OF SILL AND ENTIRE PERIMETER OF FRAME. SEE SHEETS 5 & 6
7. WEATHERSTRIPPING:
– WHEN WATER INFILTRATION IS REQUIRED INSTALL PER SHEET 5. (ZERO INTL 566 VS NGP 950)
– WHEN WATER INFILTRATION IS NOT REQUIRED – INSTALL PER SHEET 6. (ZERO INTL 566, 65 & 568 VS NGP 950)
8. SEE SHEET 11 FOR HORIZONTAL CROSS SECTION A–A, SEE SHEET 12 FOR VERTICAL CROSS SECTION B–B.
9. TYPICAL SILL INSTALLATION SHALL BE ANCHORED PER OVERHEAD AND SIDEVIEW VIEW TH DETAILS ON THIS SHEET.
10. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY.
11. OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE OR LOCK AND/OR INHIBIT EGRESS; TO BE REVIEWED BY THE BUILDING OFFICIAL.

BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF 05/20/07	MIAMI-DADE COUNTY PRODUCT APPROVAL H-SERIES FLUSH SINGLE DOORS (OUTSWING)	
CHECKED		
APPROVED	SIZE FLAT DWG NO. IRFS07 REV P	
ENG. APPVL JPD 10/11/07	SCALE: NTS AUTOCAD SHEET 3 of 14	

BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES	
DRAWN YMF 05/20/07	FRAME ANCHOR DETAILS & INSTALLATION CONDITIONS.	
CHECKED		
APPROVED	SIZE FLAT DWG NO. IRFS07 REV P	
ENG. APPVL JPD 10/11/07	SCALE: NTS AUTOCAD SHEET 4 of 14	

ALLOWABLE DESIGN PRESURE = +/- 70.0 PSF
CALCULATED WIND PRESSURE (ZONE 4) = +34/-37 PSF

1 A881 **PRODUCT APPROVALS - H.M. SERVICE DOOR - SHEET 2**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA STEFANO DE LUCA REGISTERED ARCHITECT AR0014815

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CHIPOTLE MEXICAN GRILL

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:
PRODUCT APPROVAL - H.M. DOOR

A881

TABLE 3.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11A	566 THRESHOLD	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
18A	188S DOOR SEAL	ZERO INT'L
20A	139 DOOR SWEEP	ZERO INT'L
20B	328 DOOR SWEEP	ZERO INT'L
21A	475 ADJUSTABLE SEAL	ZERO INT'L
22A	142 RAIN DRIP	ZERO INT'L
22B	11 RAIN DRIP	ZERO INT'L
23	DOOR TOP CAP	STEELCRAFT

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF - MAXIMUM DOOR SIZE 4'-0" X 8'-0" (SEE ELEVATIONS SHEET 1)

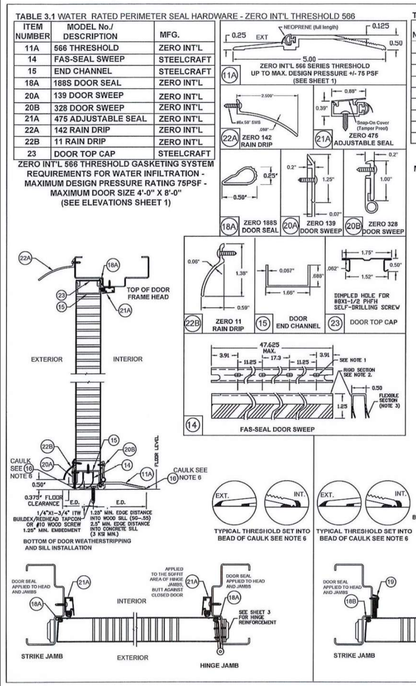
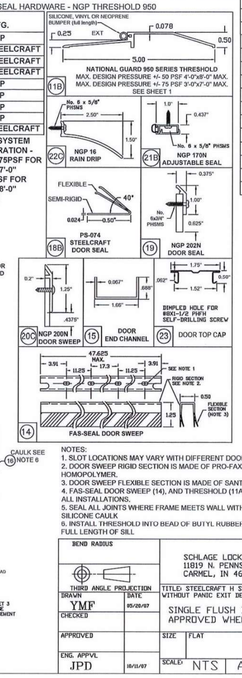


TABLE 3.2 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
18B	PS074 DOOR SEAL	STEELCRAFT
19	202N DOOR SEAL	NGP
20C	200N DOOR SWEEP	NGP
21B	170N ADJUSTABLE SEAL	NGP
22C	16A RAIN DRIP	NGP
23	DOOR TOP CAP	STEELCRAFT

NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 75PSF FOR MAXIMUM DOOR SIZE OF 3'-0" X 7'-0" MAXIMUM DESIGN PRESSURE 60 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" (SEE ELEVATIONS SHEET 1)



PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. **22-0427.01**
Expiration Date **05/05/2028**
By Ishuy I. Cheek
Miami-Dade Product Control

NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A OR 11B) ARE REQUIRED FOR ALL INSTALLATIONS.
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL

HERMES ANDRES MORERO LICENSE No. 73778 STATE OF FLORIDA 7-28-2022 PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION NO. 29578

BEND RADIUS			
THIRD ANGLE PROJECTION			
DRAWN	YMF	DATE	05/20/07
CHECKED			
APPROVED			
ENG. APPVL	JPD		10/11/07

SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

SINGLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS REQUIRED

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 5 of 14

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
B	REVISED DWG	RAP	10/11/07	
D	REVISED DWG	YMF	01/07/07	
E	REVISED DWG	YMF	04/03/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
L	REVISED DWG	JPD	05/05/15	
M	ENGINEER CHANGE	LA	02/03/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

TABLE 4.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11	12A 566 THRESHOLD	ZERO INT'L
	12C 65 THRESHOLD	ZERO INT'L
	12D 568 THRESHOLD	ZERO INT'L
13	14A PS074 DOOR SEAL	STEELCRAFT
	14B 188S DOOR SEAL	ZERO INT'L
	14C 117S DOOR SEAL	ZERO INT'L
	14D 8144S DOOR SEAL	ZERO INT'L
	14E 8160S DOOR SEAL	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT

ZERO INT'L 566, 65 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED MAXIMUM DESIGN PRESSURE RATING 75PSF - MAXIMUM DOOR SIZE 4'-0" X 8'-0" (SEE ELEVATIONS SHEET 1)

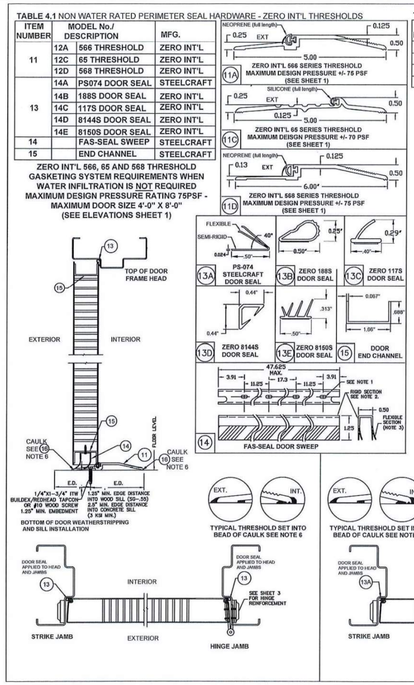
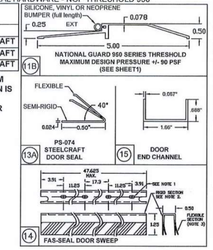


TABLE 4.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
13A	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT

NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED - MAXIMUM DESIGN PRESSURE 100 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" (SEE ELEVATIONS SHEET 1)



PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. **22-0427.01**
Expiration Date **05/05/2028**
By Ishuy I. Cheek
Miami-Dade Product Control

NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (19), DOOR SEAL (13A, 13B, 13C, 13D, 13E) AND THRESHOLD (11A, 11B, 11C, 11D) AS APPLICABLE, ARE REQUIRED FOR ALL INSTALLATIONS.
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL

HERMES ANDRES MORERO LICENSE No. 73778 STATE OF FLORIDA 7-28-2022 PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION NO. 29578

BEND RADIUS			
THIRD ANGLE PROJECTION			
DRAWN	YMF	DATE	05/20/07
CHECKED			
APPROVED			
ENG. APPVL	JPD		10/11/07

SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

SINGLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS NOT REQUIRED

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 6 of 14

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
B	REVISED DWG	RAP	10/11/07	
D	REVISED DWG	YMF	01/07/07	
E	REVISED DWG	YMF	04/03/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
L	REVISED DWG	JPD	05/05/15	
M	ENGINEER CHANGE	LA	02/03/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

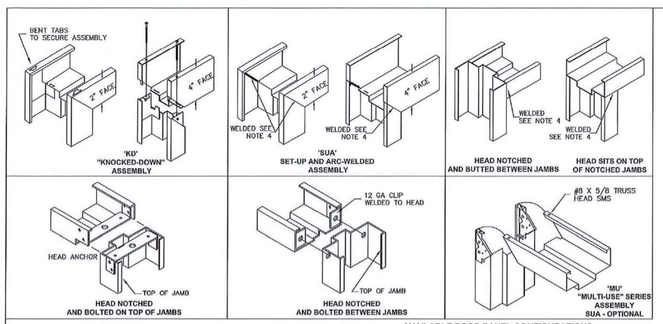


TABLE 5. AVAILABLE STEELCRAFT DOOR CONFIGURATIONS

CORE MATERIAL PER SHT.4	MAXIMUM OPENING SIZE WIDTH	HEIGHT	SKIN MATERIAL DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	VARIES SEE SHEET 2 TABLE 1		STAINLESS STEEL	16/.053"

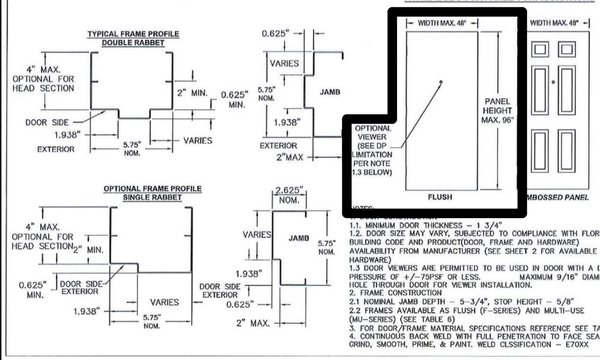
TABLE 6. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE WIDTH	HEIGHT	MATERIAL DESCR.	GA./MIN. THK
F	5.75" NOM.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" NOM.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067"

TABLE 7. STEEL DOOR/FRAME MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A366	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV: A60	A924		
SS: 304,316	A240	MIN. 31.2	MIN. 73.2

AVAILABLE DOOR PANEL CONFIGURATIONS



1.1. MINIMUM DOOR THICKNESS – 1 3/4".
1.2. DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT(DOOR, FRAME AND HARDWARE) AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
1.3 DOOR VIEWERS ARE PERMITTED TO BE USED IN DOOR WITH A DESIGN PRESSURE OF +/–75PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION.
2. FRAME CONSTRUCTION
2.1 NOMINAL JAMB DEPTH – 5–3/4", STOP HEIGHT – 5/8"
2.2 FRAMES AVAILABLE AS FLUSH (F–SERIES) AND MULTI–USE (MU–SERIES) (SEE TABLE 6)
3. FOR DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.
4. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLSSIFICATION – E70XX

BEND RADIUS			
THIRD ANGLE PROJECTION			
DRAWN	YMF	DATE	05/20/07
CHECKED			
APPROVED			
ENG. APPVL	JPD		10/11/07

SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

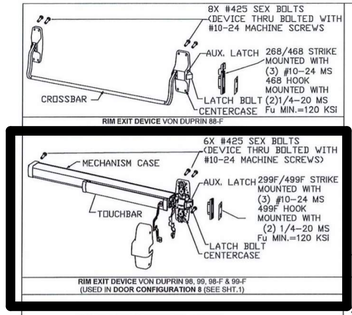
TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 7 of 14

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
D	REVISED DWG	YMF	01/08/08	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED NAME	JPD	02/01/15	
M	ENGINEER CHANGE	LA	02/16/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	



REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07	
D	REVISED DWG	YMF	01/08/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
M	ENGINEER CHANGE	LA	02/16/17	
N	ADDRESS CHANGE	JPD	01/10/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. **22-0427.01**
Expiration Date **05/05/2028**
By Ishuy I. Cheek
Miami-Dade Product Control

HERMES ANDRES MORERO LICENSE No. 73778 STATE OF FLORIDA 7-28-2022 PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION NO. 29578

NOTES:
ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY.
EXIT HARDWARE OPTIONS:
FOR 9809 X9809 SERIES - E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
PN MODEL OFFERED.

BEND RADIUS			
THIRD ANGLE PROJECTION			
DRAWN	YMF	DATE	05/20/07
CHECKED			
APPROVED			
ENG. APPVL	JPD		10/11/07

SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

EXIT HARDWARE OPTIONS FOR FLUSH SINGLE DOORS

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 8 of 14

ALLOWABLE DESIGN PRESURE = +/- 70.0 PSF
CALCULATED WIND PRESSURE (ZONE 4) = +34/-37 PSF

1 A882 **PRODUCT APPROVALS - H.M. SERVICE DOOR - SHEET 3**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815



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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

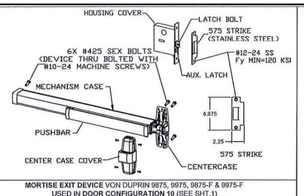
Revisions:

Drawn: ARL
Checked: SDL

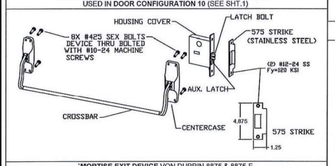
Project No.: CMG2321

Contents:
PRODUCT APPROVAL - H.M. DOOR

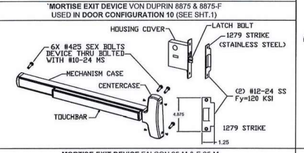
A882



MORTISE EXIT DEVICE VON DUPRIN 9875, 9975, 9875-F & 9975-F
USED IN **DOOR CONFIGURATION 10** (SEE SHT.1)

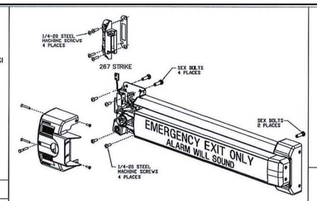


MORTISE EXIT DEVICE VON DUPRIN 8875 & 8875-F
USED IN **DOOR CONFIGURATION 10** (SEE SHT.1)

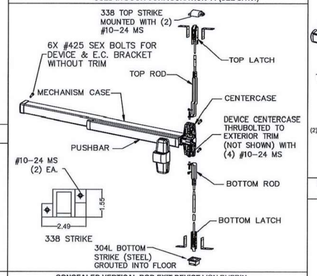


MORTISE EXIT DEVICE FALCON 25-M & F-25-M
USED IN **DOOR CONFIGURATION 10** (SEE SHT.1)

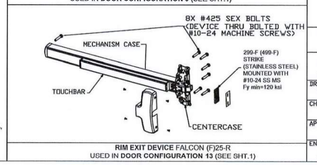
NOTES:
1. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY.
2. EXIT HARDWARE OPTIONS:
FOR 9875/ & XP9875/9 SERIES - E, RX, LX, SS, EL, QEL, CX, F ALK, CD, PN
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
FOR 88-F SERIES RIM - OPTION E
TRIMS: ALL APPLICABLE TRIMS AVAILABLE, PN MODEL OFFERED.
FOR 2670 GUARD-X
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
FOR FALCON (F)25-R, (F)25-M, F-25-C & (F)25-V SERIES - AE, DM, LM, LK, KOR, ED, MEL, EA, FSA, FSE, CD, LD, HWEA
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



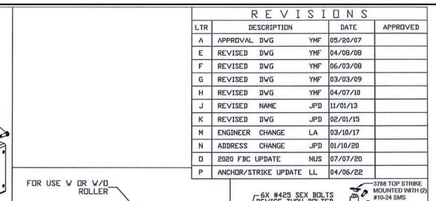
EXIT ALARM LOCK VON DUPRIN 2670 GUARD-X
USED IN **DOOR CONFIGURATION 11** (SEE SHT.1)



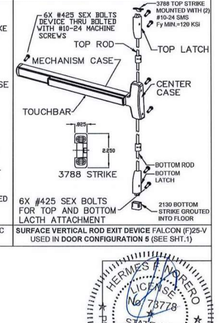
CONCEALED VERTICAL ROD EXIT DEVICE VON DUPRIN
98/9947-F & H9/98/9947 WITH 2-3/4" BACKSET
USED IN **DOOR CONFIGURATION 6** (SEE SHT.1)



RIM EXIT DEVICE FALCON (F)25-R
USED IN **DOOR CONFIGURATION 13** (SEE SHT.1)



CONCEALED VERTICAL ROD EXIT DEVICE FALCON F-25-C
USED IN **DOOR CONFIGURATION 6** (SEE SHT.1)



SURFACE VERTICAL ROD EXIT DEVICE FALCON (F)25-V
USED IN **DOOR CONFIGURATION 5** (SEE SHT.1)

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07	
E	REVISED DWG	YMF	04/08/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
M	ENGINEER CHANGE	LA	03/10/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishmy I. Chenk
Miami-Dade Product Control

HERMES F. MORENO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
7-18-2022
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FLORIDA FE 73778 CERTIFICATE OF AUTHORIZATION NO. 29579

BEND RADIUS
THIRD ANGLE PROJECTION

DRAWN	DATE
YMF	05/20/07
CHECKED	
APPROVED	
ENG. APPVL JPD	10/11/07

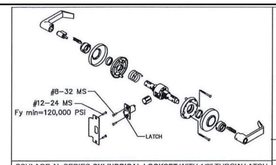
SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

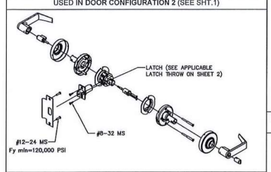
TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES
EXIT HARDWARE OPTIONS FOR FLUSH SINGLE DOORS

SIZE	FLAT	DWG NO.	REV
		IRFS07	O

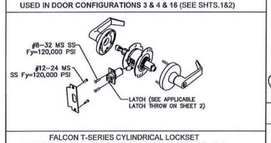
SCALE: NTS | AUTOCAD | SHEET 9 of 14



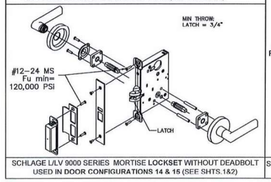
SCHLAGE AL-SERIES **CYLINDRICAL LOCKSET** WITH 1/2" THROW LATCH
USED IN **DOOR CONFIGURATION 2** (SEE SHT.1)



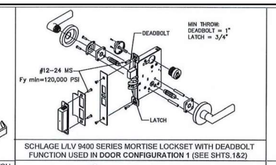
SCHLAGE D/ND-SERIES CYLINDRICAL LOCKSET
USED IN **DOOR CONFIGURATIONS 3 & 4 & 16** (SEE SHTS.1&2)



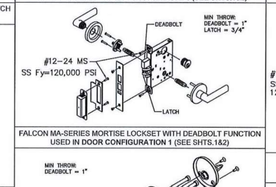
FALCON T-SERIES CYLINDRICAL LOCKSET
USED IN **DOOR CONFIGURATIONS 4 & 16** (SEE SHTS.1&2)



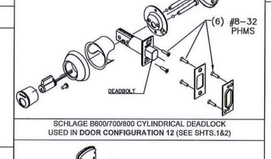
SCHLAGE L/LV 9000 SERIES MORTISE LOCKSET WITHOUT DEADBOLT
USED IN **DOOR CONFIGURATIONS 14 & 15** (SEE SHTS.1&2)



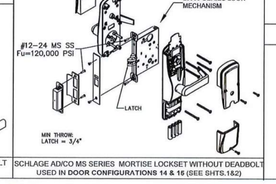
SCHLAGE L/LV 9400 SERIES MORTISE LOCKSET WITH DEADBOLT
FUNCTION USED IN **DOOR CONFIGURATION 1** (SEE SHTS.1&2)



FALCON MA-SERIES MORTISE LOCKSET WITH DEADBOLT FUNCTION
USED IN **DOOR CONFIGURATION 1** (SEE SHTS.1&2)



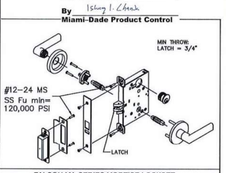
SCHLAGE B600/700/800 CYLINDRICAL DEADLOCK
USED IN **DOOR CONFIGURATION 12** (SEE SHTS.1&2)



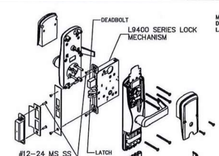
SCHLAGE ADD/CO MS SERIES MORTISE LOCKSET WITHOUT DEADBOLT
USED IN **DOOR CONFIGURATIONS 14 & 16** (SEE SHTS.1&2)

NOTE: ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY.

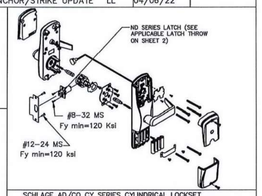
PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishmy I. Chenk
Miami-Dade Product Control



FALCON MA-SERIES MORTISE LOCKSET
WITHOUT DEADBOLT FUNCTION USED IN **DOOR CONFIGURATION 15** (SEE SHTS.1&2)



SCHLAGE AD/CO MD SERIES MORTISE LOCKSET W/DEADBOLT
USED IN CONFIGURATIONS: 1 (SEE SHTS. 1&2)



SCHLAGE AD/CO CY SERIES CYLINDRICAL LOCKSET
USED IN CONFIGURATIONS: 3 & 4 & 16 (SEE SHEET 1&2)

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07	
D	REVISED DWG	YMF	01/08/08	
E	REVISED DWG	YMF	04/08/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
M	ENGINEER CHANGE	LA	02/16/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

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FLORIDA FE 73778 CERTIFICATE OF AUTHORIZATION NO. 29579

BEND RADIUS
THIRD ANGLE PROJECTION

DRAWN	DATE
YMF	05/20/07
CHECKED	
APPROVED	
ENG. APPVL JPD	10/11/07

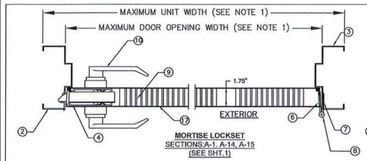
SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

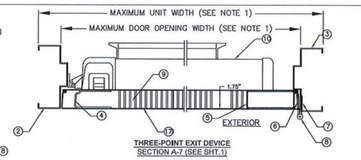
TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES
HARDWARE OPTIONS FOR FLUSH SINGLE DOORS.

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

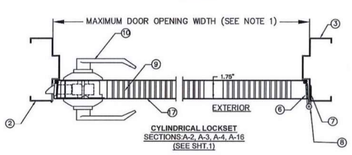
SCALE: NTS | AUTOCAD | SHEET 10 of 14



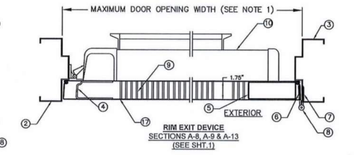
MORTISE LOCKSET
SECTIONS A-1, A-14, A-15
(SEE SHT.1)



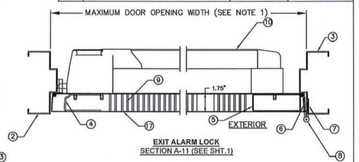
THREE-POINT EXIT DEVICE
SECTION A-7 (SEE SHT.1)



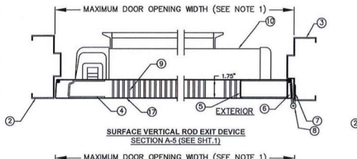
CYLINDRICAL LOCKSET
SECTIONS A-2, A-3, A-4, A-16
(SEE SHT.1)



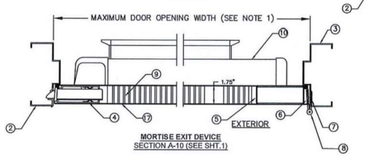
RIM EXIT DEVICE
SECTION A-13
(SEE SHT.1)



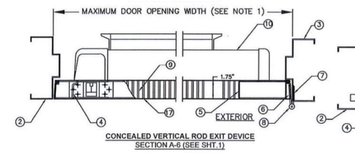
EXIT ALARM LOCK
SECTION A-11 (SEE SHT.1)



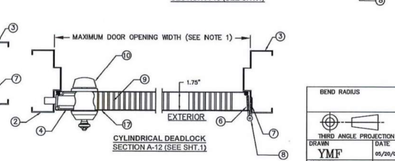
SURFACE VERTICAL ROD EXIT DEVICE
SECTION A-5 (SEE SHT.1)



MORTISE EXIT DEVICE
SECTION A-10 (SEE SHT.1)



CONCEALED VERTICAL ROD EXIT DEVICE
SECTION A-6 (SEE SHT.1)



CYLINDRICAL DEADLOCK
SECTION A-12 (SEE SHT.1)

NOTES:
1. FOR MAXIMUM OPENING DIMENSION SIZES AND MAX UNIT SIZES SEE SHEETS 1, 2, 3, 11 & 12.
2. SINGLE OUTSWING DOORS, SEE SHEET 4 FOR INSTALLATION INFORMATION.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishmy I. Chenk
Miami-Dade Product Control

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BEND RADIUS
THIRD ANGLE PROJECTION

DRAWN	DATE
YMF	05/20/07
CHECKED	
APPROVED	
ENG. APPVL JPD	10/11/07

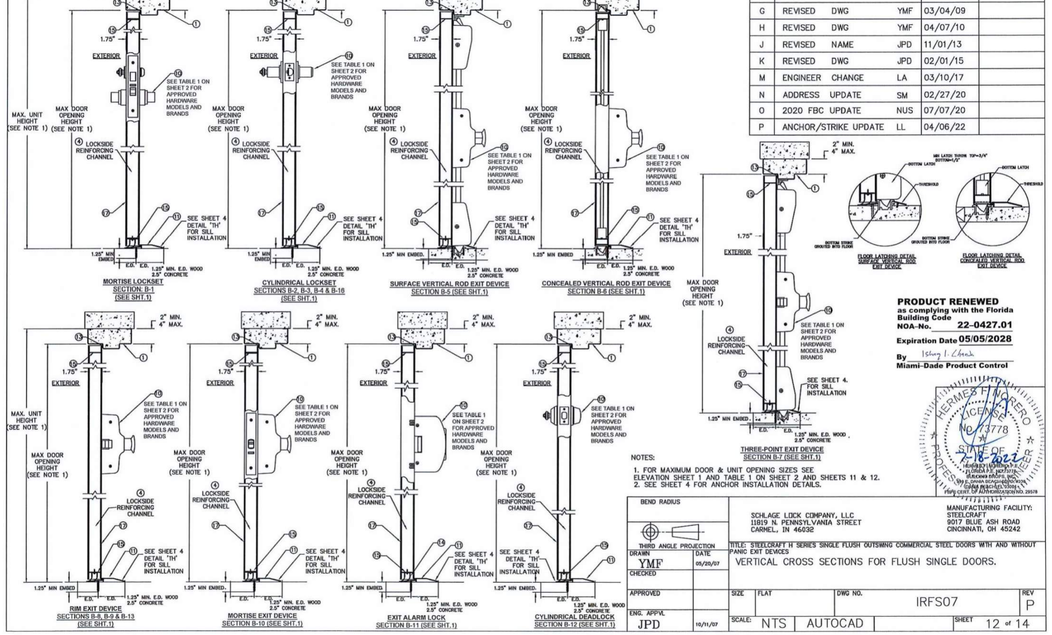
SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES
HORIZONTAL CROSS SECTIONS FOR FLUSH SINGLE DOORS.

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 11 of 14



NOTES:
1. FOR MAXIMUM DOOR & UNIT OPENING SIZES SEE ELEVATION SHEET 1 AND TABLE 1 ON SHEET 2 AND SHEETS 11 & 12.
2. SEE SHEET 4 FOR ANCHOR INSTALLATION DETAILS.

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07	
G	REVISED DWG	YMF	03/04/09	
H	REVISED DWG	YMF	04/07/10	
J	REVISED NAME	JPD	11/01/13	
K	REVISED DWG	JPD	02/01/15	
M	ENGINEER CHANGE	LA	03/10/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

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DRAWN	DATE
YMF	05/20/07
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APPROVED	
ENG. APPVL JPD	10/11/07

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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

MANUFACTURING FACILITY:
STEELCRAFT
9017 BLUE ASH ROAD
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES
VERTICAL CROSS SECTIONS FOR FLUSH SINGLE DOORS.

SIZE	FLAT	DWG NO.	REV
		IRFS07	P

SCALE: NTS | AUTOCAD | SHEET 12 of 14

ALLOWABLE DESIGN PRESURE = +/- 70.0 PSF
CALCULATED WIND PRESSURE (ZONE 4) = +34/-37 PSF

1 / A883 **PRODUCT APPROVALS - H.M. SERVICE DOOR - SHEET 4**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA — STEFANO De LUCA — REGISTERED ARCHITECT — AR0014815

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

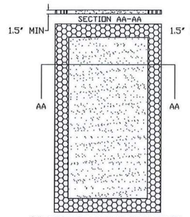
Revisions:

Drawn: ARL
Checked: SDL

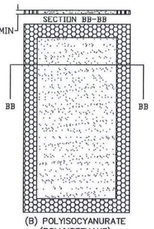
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Contents:
PRODUCT APPROVAL - H.M. DOOR

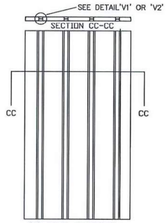
A883



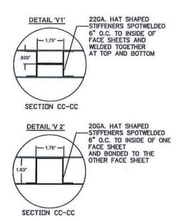
(A) EXPANDED POLYSTYRENE FOAM
BY ATLAS EPS
DENSITY: 1.0 LBS/FT^3

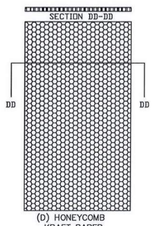


(B) POLYISOCYANURATE
(POLYURETHANE)
BY ELLIOT CO. OF INDIANAPOLIS, IN
DENSITY: 2 LBS/FT^3

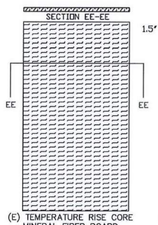


(C) STEEL STIFFENED
HAT SHAPED SECTIONS

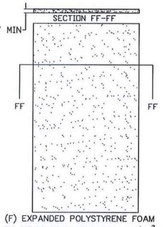




(D) HONEYCOMB
KRAFT PAPER.



(E) TEMPERATURE RISE CORE
MINERAL FIBER BOARD
DENSITY: 17±1.5 LBS/FT^3
PYROPHOBIC SYSTEMS LTD
PYROPHOBIC PSL P25C-60 CORE
OR
MARSHFIELD DOOR SYSTEMS
CALCIUM SILICATE MINERAL CORE



(F) EXPANDED POLYSTYRENE FOAM
BY ATLAS EPS DENSITY: 1.0 LB/FT^3
OR POLYISOCYANURATE
(POLYURETHANE)
BY ELLIOTT CO. OF INDIANAPOLIS, IN
DENSITY: 2 LBS/FT^3

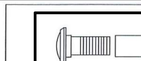
NOTES:
1. CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	JPD	02/03/14	
B	REVISED DWG	JPD	02/01/15	
C	REVISED DWG	JPD	05/05/15	
M	ENGINEER CHANGE	LA	03/10/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
O	ANCHOR/STRIKE UPDATE	LL	04/06/22	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishaq I. Cheuk
Miami-Dade Product Control

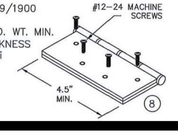
HERMES A. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by HERMES A NORERO DN: c=US, o=Florida, ou=Florida Licensed Professional Engineer, cn=HERMES A NORERO, 0.9.2342.19200300.100.1.1=73778 Date: 2023.10.31 09:48:51 -04'00'
Certificate of Authorization No. 33578

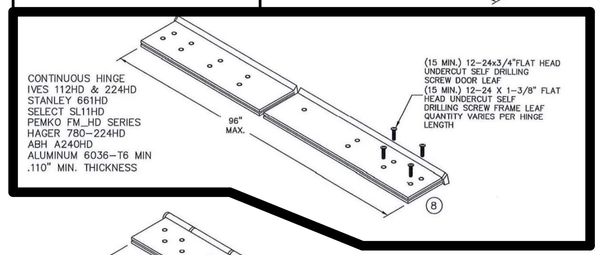
BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES MIAMI-DADE COUNTY PRODUCT APPROVAL DOOR CORE OPTIONS	
DRAWN: JPD DATE: 02/03/14	SIZE: FLAT	DWG NO.: IRFS07 REV: P
CHECKED	SCALE: NTS AUTOCAD	SHEET 13 of 14
APPROVED		
ENG. APPVL		

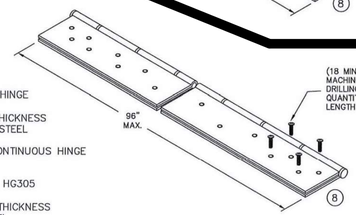


(24) IVES 698/U698 DOOR VIEWER
APPLICATION LIMITED TO +/- 75 PSF
DESIGN PRESSURE OR LESS

STEEL BUTT HINGE
IVES 5BB1/3CB1
STANLEY FBB179/1900
HAGER BB1279
4.5" X 4.5" STD. WT. MIN.
.134" MIN. THICKNESS
Fy MIN. = 36ksi







CONTINUOUS HINGE NOTES:
1. QUANTITY OF SCREWS VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
2. SCREW SPACING VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
3. INSTALL HINGES PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWGS.		09/05/13	
B	REVISED		02/01/15	
M	ENGINEER CHANGE	LA	03/10/17	
N	ADDRESS UPDATE	SM	02/27/20	
O	2020 FBC UPDATE	NUS	07/07/20	
P	ANCHOR/STRIKE UPDATE	LL	04/06/22	

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 22-0427.01
Expiration Date 05/05/2028
By Ishaq I. Cheuk
Miami-Dade Product Control

HERMES A. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
Digitally signed by HERMES A NORERO DN: c=US, o=Florida, ou=Florida Licensed Professional Engineer, cn=HERMES A NORERO, 0.9.2342.19200300.100.1.1=73778 Date: 2023.10.31 09:48:51 -04'00'
Certificate of Authorization No. 33578

BEND RADIUS	SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	MANUFACTURING FACILITY: STEELCRAFT 9017 BLUE ASH ROAD CINCINNATI, OH 45242
THIRD ANGLE PROJECTION	TITLE: STEELCRAFT H SERIES SINGLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES HINGE AND VIEWER OPTIONS	
DRAWN: JPD DATE: 02/03/14	SIZE: FLAT	DWG NO.: IRFS07 REV: P
CHECKED	SCALE: NTS AUTOCAD	SHEET 14 of 14
APPROVED		
ENG. APPVL		

ALLOWABLE DESIGN PRESURE = +/- 70.0 PSF
CALCULATED WIND PRESSURE (ZONE 4) = +34/-37 PSF

1 A884 **PRODUCT APPROVALS - H.M. SERVICE DOOR - SHEET 5**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA STEFANO De LUCA AR0014815 REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:
10.31.23 PERMIT SET
BID SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.: CMG2321

Contents:
PRODUCT APPROVAL - H.M. DOOR

A884

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

QuikServ Corp.
11441 Brittmoore Park Drive
Houston, TX 77240

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone. -

DESCRIPTION: Series "BP-7241E-IP & BP-7236E-IP Commercial" Aluminum Pass-Through Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **23-145** (former **21-023**), titled "Aluminum Commercial Pass–Thru Windows– Large Missile Impact Resistant", sheets 1 thru 8, 8A, 9 thru 15 of 15, dated 01/21/2021 and last revised on 07/28/23, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises & renews NOA No. 21-0205.08** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.
The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

Ishaq I. Chanda

NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023
Page 1

QuikServ Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's
A. DRAWINGS
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 13-0822.06)
2. Drawing No. **17-079**, titled "Aluminum Commercial Pass-Thru Windows – Large Missile Impact Resistant", sheets 1 thru 8, 8A and 9 thru 15 of 15, dated 07/17/17, with revision No. **2** dated 11/02/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of series **BP-7241E-IP** and **BP-7236E-IP** aluminum commercial pass-thru windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-C5136.01-801-18**, dated 07/26/13, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 13-0822.06)

C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 03/11/15, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, P.E.
2. Glazing complies with **ASTM E1300-04/09**

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.
2. Material Safety Data Sheet of **MSDS-17 High Density Polyethylene**, dated 09/11/08 and issued by Quadrant Engineering Plastic Products USA, Inc., the latest revision dated 09/01/10 by M. Lykins.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023

QuikServ Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017),** dated July 17, 2017, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
(Submitted under NOA No. 17-0731.02)
2. Department of State Certification of QuikServ Corporation as a foreign profit corporation, active and organized under the laws of the State of Florida, dated 01/13/15 and e-filed by the Secretary of State.
(Submitted under NOA No. 15-0316.02)
3. Department of State Certification of QuikServ Corp. as a For-Profit Corporation, active and organized under the laws of the State of Texas, dated 01/07/14 and e-filed by the Secretary of State.
(Submitted under NOA No. 15-0316.02)
4. Statement letter of no financial interest, dated 08/05/13, signed and sealed by Walter A. Tillit, P.E.
(Submitted under NOA No. 13-0822.06)
5. Department of State Certification of QuikServ Corp. as a For-Profit Corporation, active and organized under the laws of the State of Texas, dated 07/15/08, filed and signed by Phil Wilson, Secretary of State.
(Submitted under NOA No. 13-0822.06)
6. Laboratory addendum letter for Test Report No. **ATI-C5136.01-801-18**, issued by Architectural Testing, Inc., dated 10/02/13, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 13-0822.06)
7. Laboratory compliance letter for Test Report No. **ATI-C5136.01-801-18**, issued by Architectural Testing, Inc., dated 07/26/13, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 13-0822.06)
8. Proposal No. **13-0080R**, issued by the Product Control Section, dated 02/27/13, revised on 06/17/13, signed by Manuel Perez, P.E.
(Submitted under NOA No. 13-0822.06)

G. OTHERS
1. Notice of Acceptance No. **15-0316.02**, issued to QuikServ Corp. for their Series "BP-7241E-IP & BP-7236E-IP Commercial Aluminum Pass-Through Window – L.M.I.", approved on 04/09/15 and expiring on 11/28/18.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023

QuikServ Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous submittal
A. DRAWINGS
1. None.

B. TESTS
1. None

C. CALCULATIONS
1. None

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MAMATERIAL CERTIFICATIONS
1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their **"Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers"** dated 01/19/17, expiring on 07/08/19.

F. STATEMENTS
1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and **FBC 6th Edition (2017),** dated July 17, 2017, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

G. OTHERS
1. Notice of Acceptance No. **17-0731.02**, issued to QuikServ Corp. for their Series "BP-7241E-IP & BP-7236E-IP Commercial Aluminum Pass-Through Window – L.M.I.", approved on 09/07/17 and expiring on 11/28/18.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023

QuikServ Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED under previous approval
A. DRAWINGS
1. Drawing No. **21-023 (former 17-079)**, titled "Aluminum Commercial Pass–Thru Windows– Large Missile Impact Resistant", sheets 1 thru 8, 8A, 9 thru 15 of 15, dated 01/21/2021, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS
1. None

C. CALCULATIONS
1. None

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. **20-0915.28** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/24.

F. STATEMENTS
1. Statement letter of conformance, complying with FBC 2020 (7th Edition), dated January 11, 2021, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

G. OTHERS
1. This NOA **revises NOA No. 18-0814.01, expiring 11/28/23.**

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023

QuikServ Corp.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED
A. DRAWINGS
1. Drawing No. **23-145** (former **21-023**), titled "Aluminum Commercial Pass–Thru Windows– Large Missile Impact Resistant", sheets 1 thru 8, 8A, 9 thru 15 of 15, dated 01/21/2021 and last revised on 07/28/23, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. **20-0915.28** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/24.

F. STATEMENTS
1. Statement letter of conformance, complying with FBC 2023 (8th Edition), dated 07/28/23, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of conformance, complying with FBC 2020 (7th Edition), dated January 11, 2021, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.(submitted under previous approval).

G. OTHERS
1. This NOA **revises & renews NOA No. 21-0205.08** and updates to FBC 2023, expiring 11/28/28.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-0816.26
Expiration Date: November 28, 2028
Approval Date: October 12, 2023

GENERAL NOTES:

1. COMMERCIAL PASS–THRU WINDOWS, LARGE MISSILE IMPACT RESISTANT, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. COMMERCIAL PASS–THRU WINDOWS, LARGE MISSILE IMPACT RESISTANT, MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7–16 (FBC 2020) AND ASCE 7–22 (FBC 2023) SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7–16 AND ASCE 7–22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.
THESE COMMERCIAL PASS–THRU WINDOWS' ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS–201, TAS–202, TAS–203 PROTOCOLS, PER A.T.I. LAB REPORT # C5136.01–801–18 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.

2. MAX. A.S.D. DESIGN PRESSURE RATING FOR THESE COMMERCIAL PASS–THRU WINDOWS IS:
+ 70, – 80 P.S.F.

3. THESE COMMERCIAL PASS–THRU WINDOWS WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE ON INSTALLATIONS UP TO 30 FEET ABOVE GRADE.

4. THESE COMMERCIAL PASS–THRU WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.

5. ALL COMPONENTS SHALL BE AS INDICATED ON BILL OF MATERIALS ON SHEET 14 AND COMPONENTS DESCRIPTION ON SHEETS 11, 12 & 13.

6. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, G = 0.55.

7. ALL ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III–6 OF THE 2015 AND 2020 ALUMINUM DESIGN MANUAL.

8. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.
(A) TO EXISTING POURED CONCRETE: (MIN. f'c = 3000 PSI), MIN. EDGE DISTANCE (E.D.) = 3".
– 1/4"ø TAPCON ANCHORS W/ 1" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC., THRU 1" P.T. WOOD BUCK (IF APPLICABLE).

(B) TO EXISTING A.S.T.M. C–90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2".
– 1/4"ø TAPCON ANCHORS W/ 1" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC., THRU 1" P.T. WOOD BUCK (IF APPLICABLE).

(C) TO EXISTING DOUBLE 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
– 1/4"ø WOOD SCREWS W/ 3" MIN. THREADED PENETRATION, TO COMPLY W/ NDS 2015.

(D) TO EXISTING MIN. $\frac{1}{8}$" THICK ALUMINUM TUBE (6063–T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2".
– 1/4"ø TEK SCREWS, AS MANUFACTURED BY ITW/BUILDEX, INC.

(E) TO EXISTING MIN. 18 GAGE STEEL MEMBER (ASTM A–500, A–653 OR A–36) MIN. EDGE DISTANCE (E.D.) = 1/2".
– 1/4"ø TEK SCREWS, AS MANUFACTURED BY ITW/BUILDEX, INC.

9. PROVIDE 1/4" MAX. LOAD BEARING SHIM, WHEN ALLOWED BY THIS DRAWING.

10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

11. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PASE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

SHEET #	TABLE OF CONTENTS DESCRIPTION
1	GENERAL NOTES
2	IMPACT WINDOWS EXTERIOR ELEVATIONS
3	BP–7241E–IP WINDOW TYPE 1 (OXXO)
4	BP–7241E–IP WINDOW TYPE 1 (OXXO)
5	BP–7236E–IP WINDOW TYPE 2 (OXXO)
6	BP–7236E–IP WINDOW TYPE 2 (OXXO)
7	GLAZING DETAILS
8	DOOR – HEADER & SILL CONNECTIONS
8A	DOOR – HEADER CONNECTION (CONTINUED)
9	ANCHOR INSTALLATION / LAYOUT
10	ANCHOR SCHEDULE
11	STEEL ASSEMBLY COMPONENTS
12	STEEL ASSEMBLY COMPONENTS (CONTINUED)
13	ALUMINUM EXTRUSIONS COMPONENTS
14	BILL OF MATERIALS
15	SASH INSTALLATION DETAILS

PRODUCT RENEWED
as complying with the Florida Building Code
NOA–No. 23–0816.26
Expiration Date 11/28/2028
By Ishaq I. Chanda
Miami-Dade Product Control

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIT, JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/24/2023
P.E. SEAL/SIGNATURE/DATE

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TILLIT TESTING & ENGINEERING COMPANY
9350 S.W. 72nd St., Ste. 204, Miami, FL 33173
Phone 1 (305)971–1500 Fax 1 (305)971–1501
www.tilteco.com
CA#–0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

ALUMINUM COMMERCIAL PASS–THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

QUIKSERV CORP.
11441 BRITTMORE PARK DRIVE,
HOUSTON, TEXAS 77041
PHONE: (713) 937–9437 FAX: (713) 937–9765

REV. No.	DESCRIPTION	DATE	REV. No.	DESCRIPTION	DATE
1	PER 21–023	7/28/23	3		
2			4		

DRAWN BY: T.M.
7/28/2023 DATE
23–145 DRAWING No
SHEET 1 OF 15

ALLOWABLE DESIGN PRESURE = +70.0/-80.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-37 PSF

1 / A890 **PRODUCT APPROVAL - PICK-UP WINDOW - SHEET 1**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

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WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

06.13.24	IN FOR PERMIT
07.11.24	BID SET
09.26.24	CONSTRUCTION SET

Revisions:

Drawn: ARL
Checked: SDL

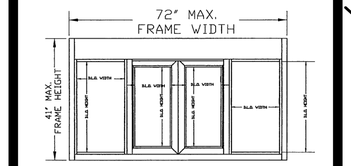
Project No.
CMG2321

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PRODUCT APPROVAL - PICK-UP WINDOW

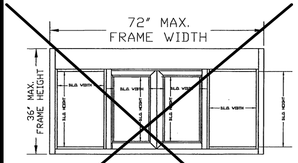
A890

QUIKSERV

COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT
EXTERIOR ELEVATIONS



BP-7241E-IP
WINDOW TYPE 1 (OXXO)
N.T.S.

~~  ~~

~~**BP-7236E-IP**~~
~~**WINDOW TYPE 2 (OXXO)**~~
~~N.T.S.~~

MODEL	WINDOW TYPE	ACTUAL FRAME MAX. DIMENSION	MAX. D.L.O. DIMENSIONS	GLAZING TYPE
BP-7241E-IP	1	72"(W) X 41"(H)	(O) 15-1/4"(W) X 30-1/4"(H) (X) 10-5/8"(W) X 25-3/4"(H) (X) 10-5/8"(W) X 25-3/4"(H) (O) 15-1/4"(W) X 30-1/4"(H)	SEE PAGE 7 of 15
BP-7236E-IP	2	72"(W) X 36"(H)	(O) 15-1/4"(W) X 25-1/4"(H) (X) 10-5/8"(W) X 20-3/4"(H) (X) 10-5/8"(W) X 20-3/4"(H) (O) 15-1/4"(W) X 25-1/4"(H)	

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as complying with the Florida Building Code
NOA-No. 23-0816.26
Expiration Date 11/28/2028
By Stacy I. Chinn
Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER
7/28/2023
P.E. SEAL/SIGNATURE/DATE

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6300 N.W. 35th. St., Ste. 205, Miami-Dade, FL 33166
Phone ((305)871-1500 , Fax ((305)871-1531
e-mail: tilteco@aol.com
CA--0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

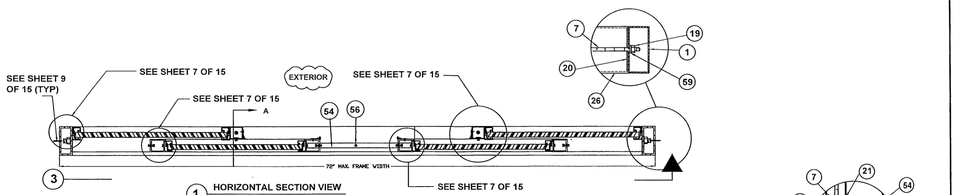
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ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

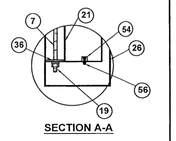
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11441 BRITMORE PARK DRIVE,
HOUSTON, TEXAS 77041
PHONE: (713) 937-3437 FAX: (713) 937-4765

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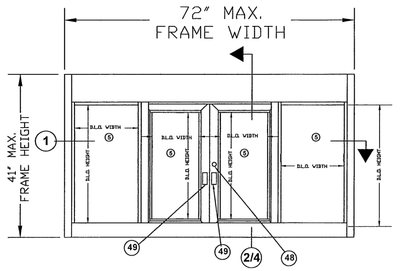
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SHEET 2 OF 15



1 HORIZONTAL SECTION VIEW
N.T.S.

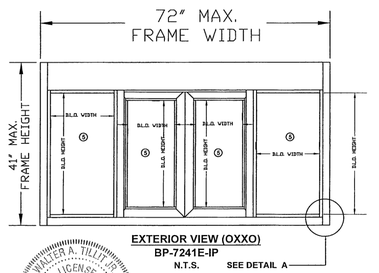


SECTION A-A



3 INTERIOR VIEW
N.T.S.

WINDOW TYPE 1 (OXXO)
BP-7241E-IP
N.T.S.



EXTERIOR VIEW (OXXO)
BP-7241E-IP
N.T.S. SEE DETAIL A

PRODUCT RENEWED
as complying with the Florida Building Code
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By Stacy I. Chinn
Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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7/28/2023
P.E. SEAL/SIGNATURE/DATE

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e-mail: tilteco@aol.com
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FLORIDA Lic. # 44167

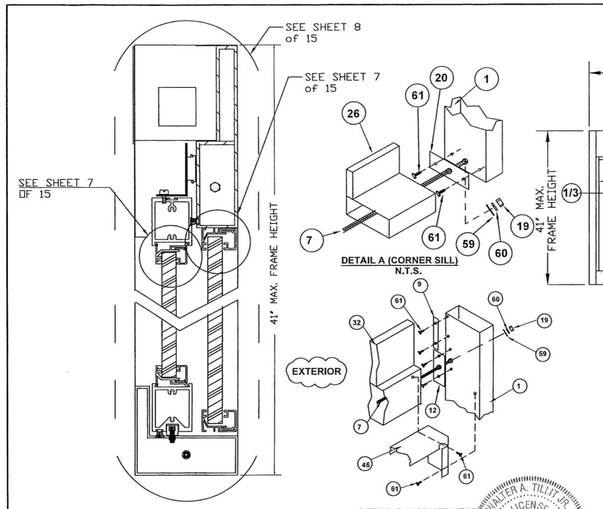
TILTECO INC.

ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

QUIKSERV CORP.
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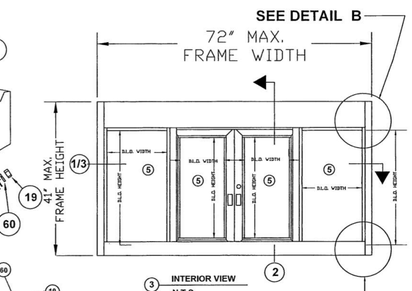
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7/28/2023 DATE
23-145 DRAWING No
SHEET 3 OF 15



2 VERTICAL SECTION VIEW
N.T.S.

DETAIL A (CORNER SILL)
N.T.S.

DETAIL B (CORNER HEAD)
N.T.S.



3 INTERIOR VIEW
N.T.S.

WINDOW TYPE 1 (OXXO)
BP-7241E-IP
(CONTINUED)

SEE DETAIL A

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0816.26
Expiration Date 11/28/2028
By Stacy I. Chinn
Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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7/28/2023
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2			4		

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7/28/2023 DATE
23-145 DRAWING No
SHEET 4 OF 15

~~1 HORIZONTAL SECTION VIEW~~
~~N.T.S.~~

~~SECTION A-A~~

~~3 INTERIOR VIEW~~
~~N.T.S.~~

~~**WINDOW TYPE 2 (OXXO)**~~
~~**BP-7236E-IP**~~
~~N.T.S.~~

~~EXTERIOR VIEW (OXXO)~~
~~BP-7236E-IP~~
~~N.T.S.~~ ~~SEE DETAIL~~

PRODUCT RENEWED
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Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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2			4		

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7/28/2023 DATE
23-145 DRAWING No
SHEET 5 OF 15

ALLOWABLE DESIGN PRESURE = +70.0/-80.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-37 PSF

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA STEFANO De LUCA AR0014815 REGISTERED ARCHITECT

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TELEPHONE: (614) 318-2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

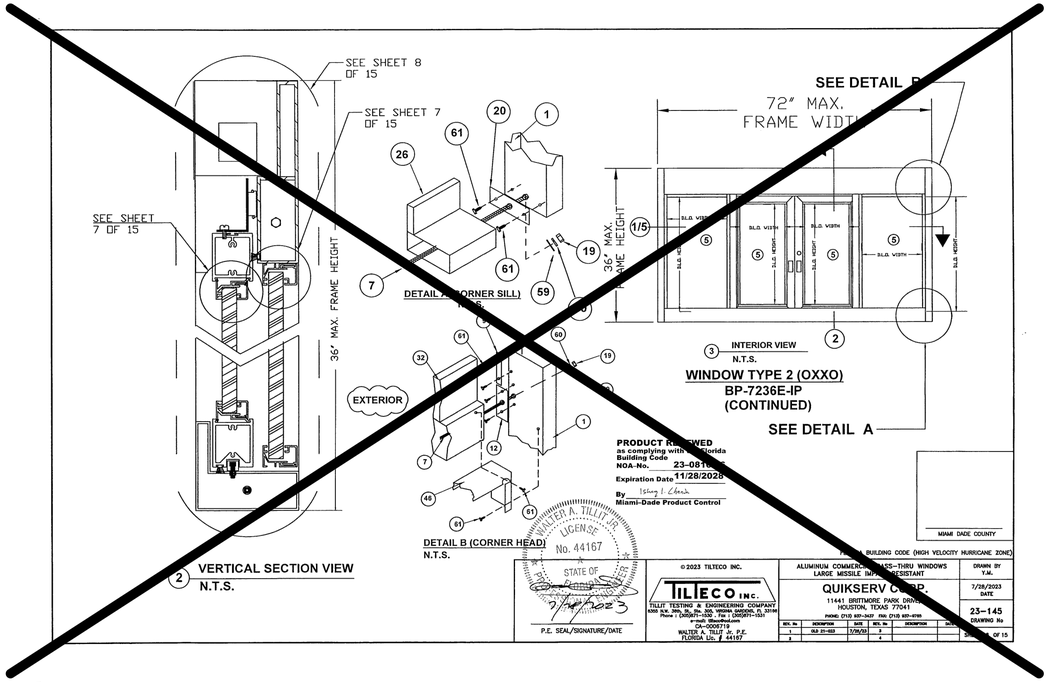
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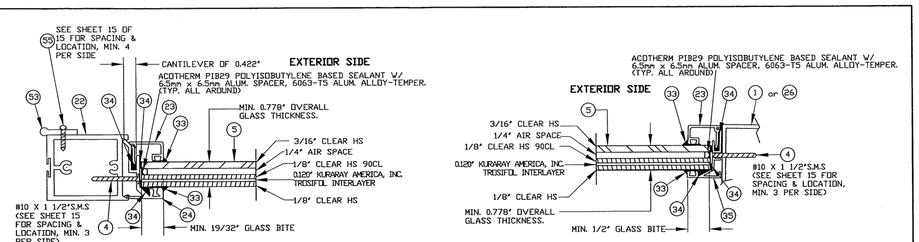
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Checked: SDL

Project No.
CMG2321

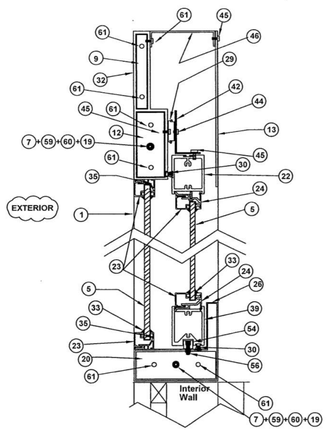
Contents:
PRODUCT APPROVAL - PICK-UP WINDOW

A891





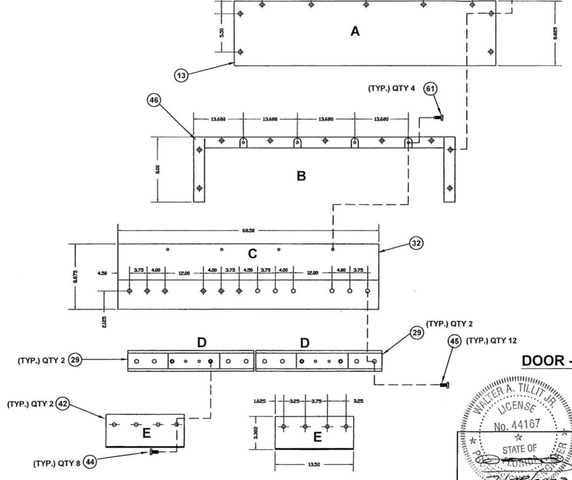
MODEL BP-7241E-IP WINDOW TYPE 1, HEADER.
MODEL BP-7236E-IP WINDOW TYPE 2, HEADER.



DOOR - HEADER CONNECTIONS
N.T.S.

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0816.26
Expiration Date 11/28/2028
By
Miami-Dade Product Control
WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA
P.E. SEAL/SIGNATURE/DATE
MIAMI DADE COUNTY
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)
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ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT
QUIKSERV CORP.
11441 BRITMORE PARK DRIVE,
HOUSTON, TEXAS 77041
DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 8 OF 15

MODEL BP-7241E-IP TYPE 1 WINDOW, HEADER
MODEL BP-7236E-IP TYPE 2 WINDOW, HEADER



NOTES:

A-(13) ACCESS COVER CONNECTS TO B-(45) ACCESS COVER BRACKET WITH QTY OF 9 (48) TRIM HEAD 10/32 X 3/4 SCREWS.

B-(48) ACCESS COVER BRACKET CONNECTS TO C-(42) HEADER WITH QTY 4 OF (3) HEX SCREW #8 X 1/2"

D-(29) BALLBEARING SASH SLIDERAIL QTY OF (2) CONNECTS TO C-(42) HEADER WITH QTY 12 OF (45) TRIM HEAD 10/32 X 3/4" SCREWS.

E-(42) DOOR BRACKET QTY(2) CONNECTS TO (29) BALLBEARING SASH SLIDERAIL QTY(2) WITH QTY 8 OF (44) HEX HEAD 10/32 X 3/8" SCREWS

DOOR - HEADER CONNECTIONS CONTINUED
INTERIOR ELEVATION
N.T.S.

PRODUCT RENEWED
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HOUSTON, TEXAS 77041
DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 8A OF 15

ALLOWABLE DESIGN PRESURE = +70.0/-80.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-37 PSF

1 A892 PRODUCT APPROVAL - PICK-UP WINDOW - SHEET 3
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
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Hollywood, FL 33021
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Stefano De Luca
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WESTLAKE FL
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WESTLAKE, FL 33470

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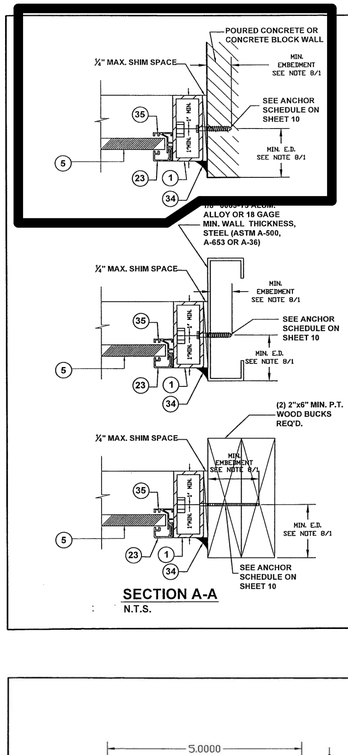
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Project No.
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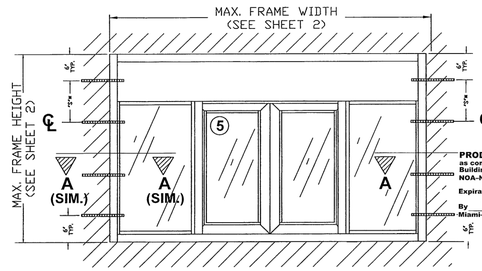
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PRODUCT APPROVAL - PICK-UP WINDOW

A892



SECTION A-A
N.T.S.

ANCHOR INSTALLATION AND LAYOUT



TYPICAL FRAME ELEVATION
N.T.S.

* "S" = MAXIMUM SPACING SEE SHEET 10.

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as complying with the Florida Building Code
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By Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIE JR. LICENSE No. 44167 STATE OF FLORIDA REGISTERED ENGINEER 7/24/2023

P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.
TILLIE TESTING & ENGINEERING COMPANY
6350 N.W. 35th, St., Ste. 305, MIRAMA, DADEON, FL. 33166
Phone ((305)871-1530 Fax ((305)871-1531
e-mail: tilco@aol.com
CA-0006719
WALTER A. TILLIE Jr. P.E.
FLORIDA Lic. # 44167

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LARGE MISSILE IMPACT RESISTANT

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PHONE: (713) 937-3437 FAX: (713) 937-4795

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DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 9 OF 15

ANCHOR SCHEDULE

MAXIMUM ANCHOR SPACING "S" SCHEDULE AT JAMB

MAX. A.S.D. DESIGN LOAD (PSF) NEGATIVE LOAD	SUBSTRATE	ANCHOR TYPE	MAX. SPACING
50 OR LESS	POURED CONCRETE (SEE NOTE 8A/1	1/4"ø ITW BUILDEX TAPCON ANCHORS	10"
	CONCRETE BLOCK (SEE NOTE 8B/1)	1/4"ø ITW BUILDEX TAPCON ANCHORS	10"
	ALUMINUM MEMBER (SEE NOTE 8D/1)	1/4"ø ITW BUILDEX TEK SCREWS	10"
	STEEL MEMBER (SEE NOTE 8E/1)	1/4"ø ITW BUILDEX TEK SCREWS	10"
	WOOD (SEE NOTE 8C/1)	1/4"ø WOOD SCREWS (NDS)	10"
> 50 TO 70	POURED CONCRETE (SEE NOTE 8A/1	1/4"ø ITW BUILDEX TAPCON ANCHORS	7 1/2"
	CONCRETE BLOCK (SEE NOTE 8B/1)	1/4"ø ITW BUILDEX TAPCON ANCHORS	7 1/2"
	ALUMINUM MEMBER (SEE NOTE 8D/1)	1/4"ø ITW BUILDEX TEK SCREWS	10"
	STEEL MEMBER (SEE NOTE 8E/1)	1/4"ø ITW BUILDEX TEK SCREWS	10"
	WOOD (SEE NOTE 8C/1)	1/4"ø WOOD SCREWS (NDS)	9"
> 70 TO 80	POURED CONCRETE (SEE NOTE 8A/1	1/4"ø ITW BUILDEX TAPCON ANCHORS	6 1/2"
	CONCRETE BLOCK (SEE NOTE 8B/1)	1/4"ø ITW BUILDEX TAPCON ANCHORS	6 1/2"
	ALUMINUM MEMBER (SEE NOTE 8D/1)	1/4"ø ITW BUILDEX TEK SCREWS	9 1/2"
	STEEL MEMBER (SEE NOTE 8E/1)	1/4"ø ITW BUILDEX TEK SCREWS	9 1/2"
	WOOD (SEE NOTE 8C/1)	1/4"ø WOOD SCREWS (NDS)	7 1/2"

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0816.26
Expiration Date 11/28/2028
By Miami-Dade Product Control

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIE JR. LICENSE No. 44167 STATE OF FLORIDA REGISTERED ENGINEER 7/24/2023

P.E. SEAL/SIGNATURE/DATE

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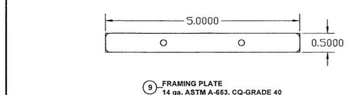
TILTECO INC.
TILLIE TESTING & ENGINEERING COMPANY
6350 N.W. 35th, St., Ste. 305, MIRAMA, DADEON, FL. 33166
Phone ((305)871-1530 Fax ((305)871-1531
e-mail: tilco@aol.com
CA-0006719
WALTER A. TILLIE Jr. P.E.
FLORIDA Lic. # 44167

ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

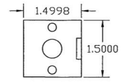
QUIKSERV CORP.
11441 BRITTMORE PARK DRIVE,
HOUSTON, TEXAS 77041
PHONE: (713) 937-3437 FAX: (713) 937-4795

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

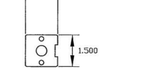
DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 10 OF 15



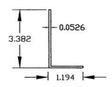
9 FRAMING PLATE
14 ga. ASTM A-653, CQ-GRADE 40
G-90 GALVANIZED STEEL
QUIKSERV RM# 3981



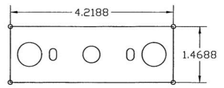
12 FRAMING PLATE
14 ga. ASTM A-653, CQ-GRADE 40
G-90 GALVANIZED STEEL
QUIKSERV RM# 3688



36 FRAMING PLATE
14 ga. ASTM A-653, CQ-GRADE 40
G-90 GALVANIZED STEEL
QUIKSERV RM# 3668



42 DOOR BRACKET
12 ga. ASTM A-653, CQ-GRADE 40
G-90 GALVANIZED STEEL
SIZE VARIES



20 FRAMING PLATE
14 ga. ASTM A-653, CQ-GRADE 40
G-90 GALVANIZED STEEL
QUIKSERV RM# 3757

PRODUCT RENEWED
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MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIE JR. LICENSE No. 44167 STATE OF FLORIDA REGISTERED ENGINEER 7/24/2023

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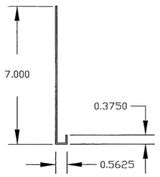
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7/28/2023 DATE
23-145 DRAWING No
SHEET 11 OF 15

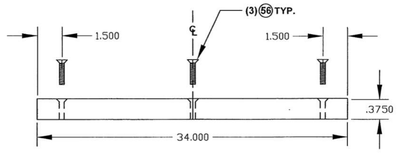
STEEL ASSEMBLY COMPONENTS



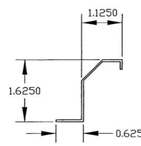
48 THUMB TURN HOOKLOCK
QUIKSERV PART # 2022



13 ACCESS COVER
18 ga. 304 Stainless Steel
BP-7241E-IP
BP-7236-IP
QUIKSERV RM# 3986



54 DOOR GUIDE BLOCK
HIGH DENSITY POLYETHYLENE
34" (L) X 3/8" (H) X 1/2" (W)
SPECIFIC GRAVITY=0.96-0.97
(PER SAFETY DATA SHEET)
MANUFACTURED BY QUADRANT EPP-USA INC,
700 NORTH SOUTH ROAD,
SCRANTON, PA 18501



49 DOOR HANDLE
16 ga. 304 Stainless Steel
QUIKSERV RM# 3588

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LARGE MISSILE IMPACT RESISTANT

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7/28/2023 DATE
23-145 DRAWING No
SHEET 12 OF 15

STEEL ASSEMBLY COMPONENTS (CONTINUED)

ALLOWABLE DESIGN PRESURE = +70.0/-80.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-37 PSF

1 A893 **PRODUCT APPROVAL - PICK-UP WINDOW - SHEET 4**
N.T.S.

Consultant:
STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN
4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494
Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · AR0014815 · REGISTERED ARCHITECT

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD, UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

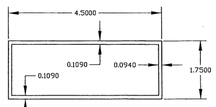
A Revisions:

Drawn: ARL
Checked: SDL

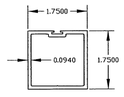
Project No.: CMG2321

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PRODUCT APPROVAL - PICK-UP WINDOW

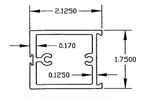
A893



01 1-3/4" X 4-1/2" RECT. TUBE
QUIKSERV RM# 6026

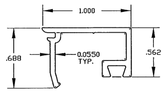


21 1-3/4" SQ. TUBE
QUIKSERV RM# 6049

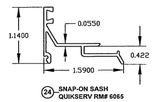


22 WIDE DOOR EXTRUSION
QUIKSERV RM# 6078

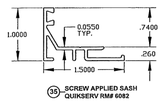
PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0816.26
Expiration Date 11/28/2028
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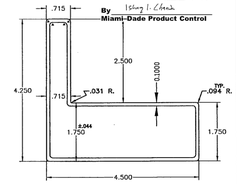
23 SASH FACE
QUIKSERV RM# 6061



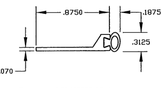
24 SNAP-ON SASH
QUIKSERV RM# 6065



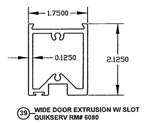
35 SCREW APPLIED SASH
QUIKSERV RM# 6082



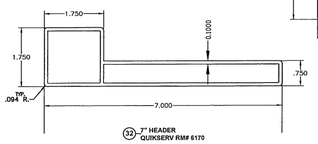
26 4-1/2" BASE
QUIKSERV RM# 6123



53 .161 NA PERIMETER SEAL
.07 ALUMINUM WITH NEOPRENE



39 WIDE DOOR EXTRUSION W/ SLOT
QUIKSERV RM# 6080



32 7" HEADER
QUIKSERV RM# 6170

ALUMINUM EXTRUSIONS COMPONENTS

MIAMI DADE COUNTY

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER
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e-mail: tilteco@aol.com
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ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

QUIKSERV CORP.
11441 BRITTMORE PARK DRIVE,
HOUSTON, TEXAS 77041
PHONE: (713) 937-3437 FAX: (713) 937-9765

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 31-053	7/28/23	3		
2			4		

DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 13 OF 15

BILL OF MATERIALS

COMPONENT #	Description	Quikserv #	Material	Specs
1	1 3/4" x 4 1/2" Rect. Tube	6026	6063-T5 Aluminum	See drawing pg. 13 - length varies
4	Sheet Metal Screw	5055	304 Stainless Steel	See dwg pg. 15 - 10/32 x 1 1/2". For spacing information see sheet 8A of 15
5	Insulated Laminated Glass	n/a	0.120" Interlayer	See drawing pg. 7 - size varies
7	All Thread Rod	n/a	Grade 2 Carbon Steel, Zinc Plated	5/16" Diameter x Length varies
9	Framing Plate	3981	14 ga. ASTM A-653, CQ Grade 40 G-90 Galvanized Steel	See drawing pg. 11
12	Framing Plate	3668	14 ga. ASTM A-653, CQ Grade 40 G-90 Galvanized Steel	See drawing pg. 11
13	Access Cover for BP-7241E-IP & BP-7236E-IP	3986	18 ga 304 Series Stainless Steel	See drawing pg. 12
16	Flat Head Tamper Resistant Machine Screw	5054	304 Stainless Steel	10/32 x 1-1/2
17	Flat Head Machine Screw	5055	304 Stainless Steel	10/32 x 1-1/2
19	Hex Nut	5301	Zinc Plated	5/16-18
20	Framing Plate	3757	14 ga. ASTM A-653, CQ Grade 40 G-90 Galvanized Steel	See drawing pg. 11
21	1 3/4" Sq. Tube Mullion	6049	6063-T5 Aluminum	See drawing pg. 13 - length varies
22	Wide Door Extrusion Mullion	6078	6063-T5 Aluminum	See drawing pg. 13 - length varies
23	Sash Face	6061	6063-T5 Aluminum	See drawing pg. 13 - length varies
24	Snap-on Sash	6065	6063-T5 Aluminum	See drawing pg. 13- length varies
26	Base	6123	6063-T5 Aluminum	See drawing pg. 13 - length varies
28	Hex Bolt	5205	Grade 2 Carbon Steel, Zinc Plated	5/16-18 x 1"
29	Ball Bearing Sash Slide Rail	1917	Cold Roll Steel	dimensions 1 3/8"(b) x 32" (i) x 1/2" (d)
30	Weatherstripping	6034	0.270" x 0.320" Pile	n/a
32	Header for BP-7241E-IP & BP-7236E-IP	6170	6063-T5 Aluminum	See drawing pg. 13 - length varies
33	Glazing Vinyl	6032	n/a	n/a
34	Silicone	2100	Structural Silicone	Dow Corning 995
35	Screw Applied Sash	6082	6063-T5 Aluminum	See drawing pg. 13 - length varies
36	Framing Plate	3668	14 ga. ASTM A-653, CQ Grade 40 G-90 Galvanized Steel	See drawing pg. 11
39	Wide Door Extrusion w/ Slot	6080	6063-T5 Aluminum	See drawing pg. 13 - length varies
42	Door Bracket	n/a	12 ga. ASTM A-653, CQ Grade 40,G-90 Galvanized Steel	See drawing pg. 11- size varies
44	Trim Head Hex Machine Screw	5008	Grade 2 Carbon Steel, Zinc Plated	10-32 x 3/8". For spacing information see sheet 8A of 15
45	Trim Head Hex Machine Screw	5005	Grade 2 Carbon Steel, Zinc Plated	10-32 x 3/4". For spacing information see sheet 8A of 15
46	Access Cover Bracket	3985	20 ga. ASTM A-653, CQ Grade 40,G-90 Galvanized Steel	See pg. 4, 6 & 8
48	Hook Lock w/ Thumb Turn, Keeper and Face Plate	2022	Grade 2 Carbon Steel, Zinc Plated	See drawing pg. 12
49	Door Handle	3588	16 ga. 304 Stainless Steel	See drawing pg. 12
53	161 NA Perimeter Seal	n/a	0.07 Aluminum with Neoprene	See drawing pg. 13 - length varies
54	Door Guide Block	n/a	High Density Polyethylene 34" (L)X3/8" (H)x1/2" (W)	See drawing pg. 12
55	Phil Pan Tek Screw	5036	410 Series Stainless Steel	#8 x 1/2" (4) per side, fastening 53 to 21 & 22
56	Phil Flat Undercut Screw	5052	304 Series Stainless Steel	(3) #10-32 x 1"
59	Flat Washer	5402	Grade 2 Carbon Steel, Zinc Plated	5/16" diameter x 0.100" Thick
60	Lock Washer	5403	Grade 2 Carbon Steel, Zinc Plated	5/16" diameter x 0.083" Thick
61	Tek Screw	6017	Grade 2 Carbon Steel, Zinc Plated	#8 x 1/2". For spacing information see sheet 8A of 15

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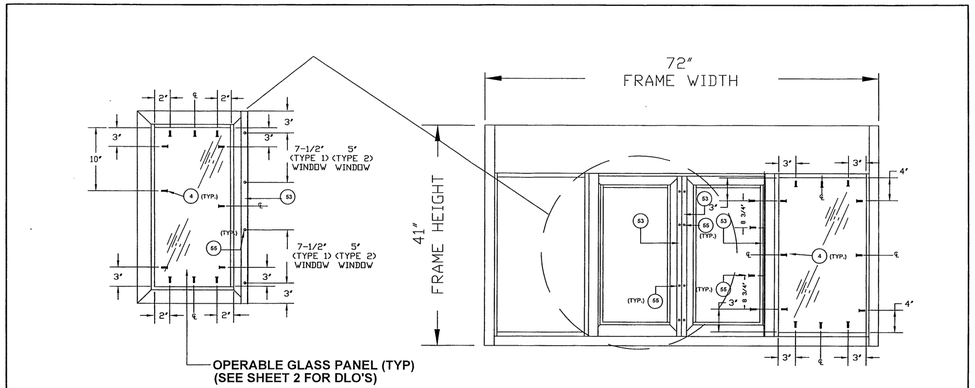
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7/28/2023 DATE
23-145 DRAWING No
SHEET 14 OF 15



SASH INSTALLATION DETAILS

N.T.S.

APPLICABLE TO THE FOLLOWING WINDOWS:
BP-7241E-IP (TYPE 1 WINDOW)
BP-7236E-IP (TYPE 2 WINDOW)

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CA--0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

ALUMINUM COMMERCIAL PASS-THRU WINDOWS
LARGE MISSILE IMPACT RESISTANT

QUIKSERV CORP.
11441 BRITTMORE PARK DRIVE,
HOUSTON, TEXAS 77041
PHONE: (713) 937-3437 FAX: (713) 937-9765

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 31-053	7/28/23	3		
2			4		

DRAWN BY Y.M.
7/28/2023 DATE
23-145 DRAWING No
SHEET 15 OF 15

ALLOWABLE DESIGN PRESURE = +70.0/-80.0 PSF
CALCULATED WIND PRESSURE (ZONE 5) = +34/-37 PSF

1 A894 **PRODUCT APPROVAL - PICK-UP WINDOW - SHEET 5**
N.T.S.

Consultant:

STEFANO De LUCA & ASSOCIATES, INC.
ARCHITECTURE & DESIGN

4501 Pierce Street
Hollywood, FL 33021
P (954) 927-2690 F (954) 367-3494

Stefano De Luca
Florida Registered Architect
AR0014815

STATE OF FLORIDA · STEFANO De LUCA · REGISTERED ARCHITECT · AR0014815

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STORE NO.: 5377
WESTLAKE FL
4951 SEMINOLE PRATT WHITNEY ROAD,
UNIT 1000
WESTLAKE, FL 33470

Issue Record:

10.31.23	PERMIT SET
	BID SET

Revisions:

Drawn: ARL
Checked: SDL

Project No.
CMG2321

Contents:
PRODUCT APPROVAL - PICK-UP WINDOW

A894



4 A900 **INTERIOR PERSPECTIVE 4**



3 A900 **INTERIOR PERSPECTIVE 3**



2 A900 **INTERIOR PERSPECTIVE 2**



1 A900 **INTERIOR PERSPECTIVE 1**

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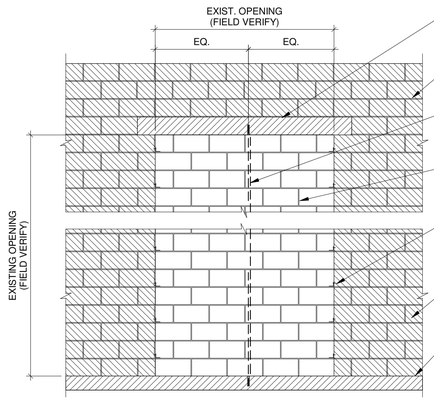
Revisions:

Drawn:	Checked:
ARL	SDL

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CMG2321

Contents:
INTERIOR PERSPECTIVES

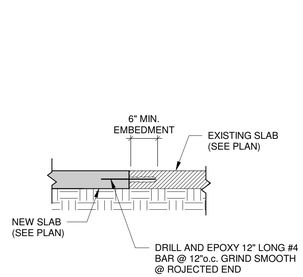
A900



TYPICAL INFILL MASONRY DETAIL

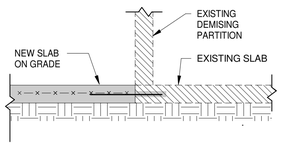
N.T.S.

NOTES:
1) SEE ARCH. FOR INTERIOR/ EXTERIOR FINISHES.

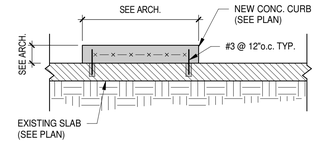


TYPICAL NEW TO EXISTING SLAB REPAIR DETAIL

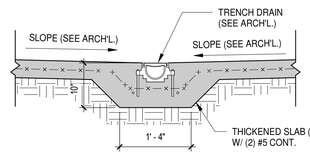
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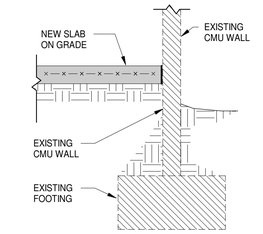
1 SECTION
3/4" = 1'-0"



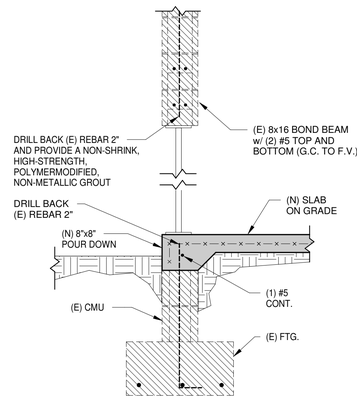
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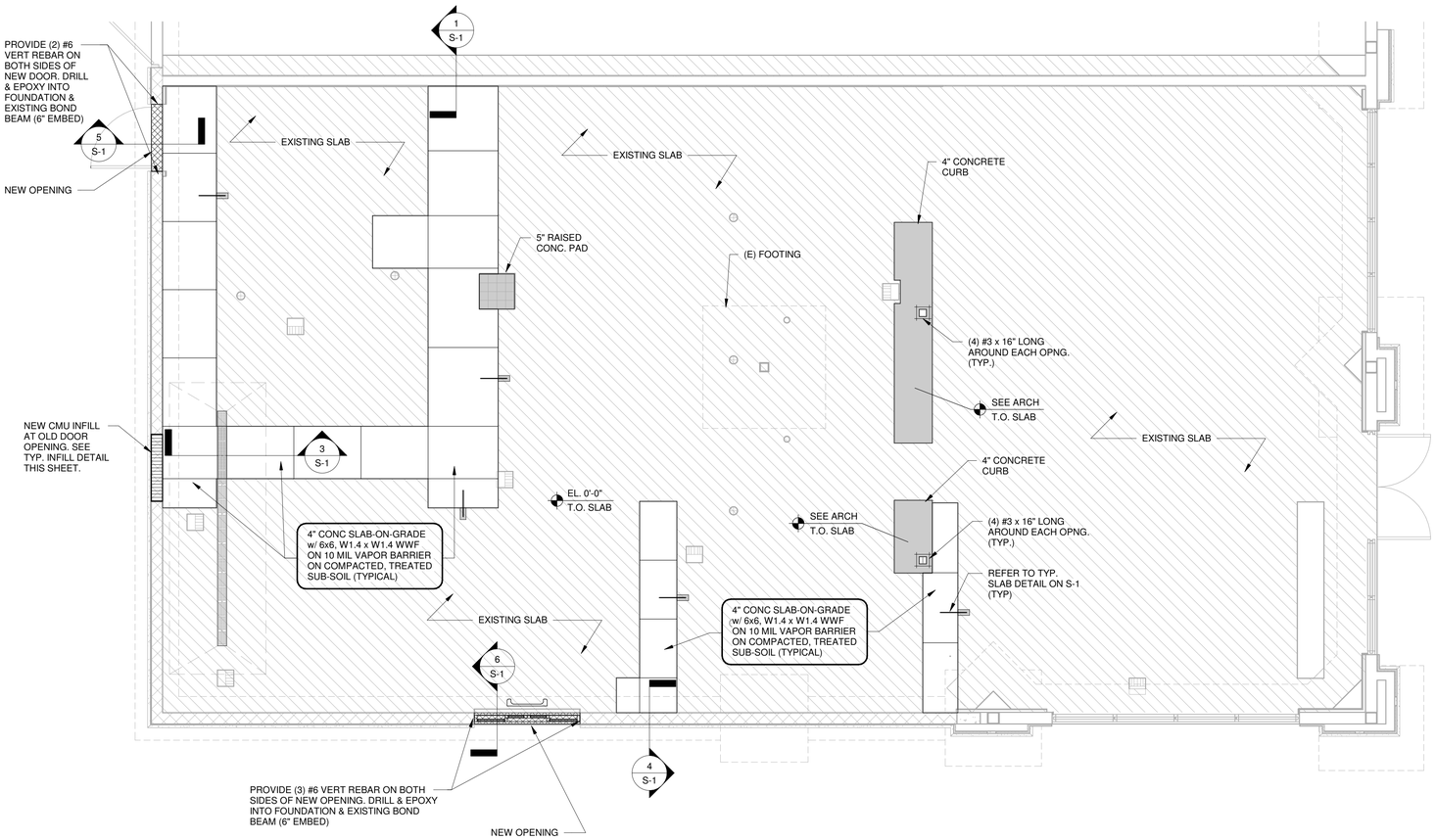
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



N A FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION NOTES:

1. RECOMPACT EXISTING SUBGRADE TO 95% COMPACTION AND TESTED BY GEOTECHNICAL ENGINEER.
2. C.J. INDICATES SAW CUT CONTROL JOINTS AT 12'-0" o.c. E.W. MAX. (TYP.)



6 SECTION
3/4" = 1'-0"

BID SET
07/11/2024

O'Donnell, Naccarato, Mignogna & Jackson
STRUCTURAL ENGINEERS
1655 PALM BEACH LAKES BLVD., SUITE 204
WEST PALM BEACH, FLORIDA 33401
(561) 835 - 9994 WWW.ONMJ.NET
JOB # 671.244

Consultant:
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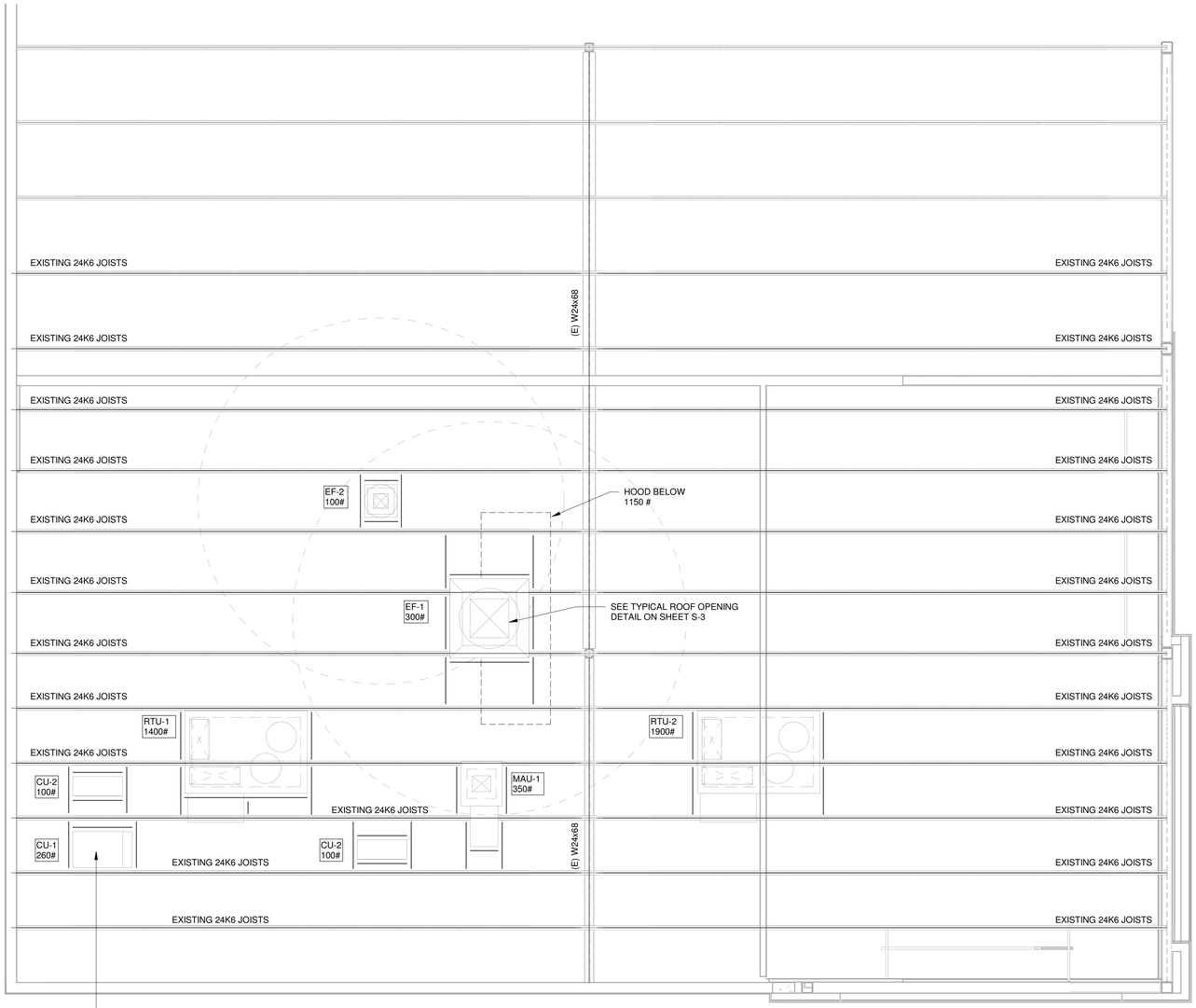
Revisions:

Drawn: Author
Checked: Checker

Project No.: CMG2321

Contents: FOUNDATION PLAN

S-1



N ① ROOF PLAN
1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. REFER TO ARCH'L. FOR LOCATION OF ALL MECH. UNITS.
2. G.C. TO VERIFY ALL EXISTING JOIST CONDITIONS MATCH DRAWINGS.
3. ALL EXISTING ANGLE BRACING TO REMAIN.

NOTE TO G.C.:
G.C. SHALL CONTACT ONM&J TO PROCURE WELDING INSPECTION SERVICES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

BID SET
07/11/2024

ONM&J
O'Donnell, Naccarato, Mignogna & Jackson
STRUCTURAL ENGINEERS
1655 PALM BEACH LAKES BLVD., SUITE 204
WEST PALM BEACH, FLORIDA 33401
(561) 835 - 9994 WWW.ONMJ.NET

JOB # 671.244

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Revisions:

Drawn: Author
Checked: Checker

Project No.: CMG2321

Contents:
ROOF FRAMING PLAN

S-2

CONTRACTOR NOTE:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. O'DONNELL, NACCARATO, MIGNOGNA & JACKSON, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.

CODES AND STANDARDS

1. WIND LOADS AS PER:

   A. FLORIDA BUILDING CODE 8TH EDITION (2023), FOR AN ULTIMATE WIND SPEED OF 165 MPH, RISK CATEGORY II, EXPOSURE C, ±0.18 INTERNAL PRESSURE COEFFICIENT.

2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:

   A. FLORIDA BUILDING CODE 8TH EDITION (2023).

3. ARCHITECTURAL AND MECHANICAL DRAWINGS:

   A. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.

   B. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.

   C. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.

   D. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH ANY WORK.

   E. ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.

4. SECTIONS AND DETAILS:

   ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

SPECIALTY ENGINEERED PRODUCTS

1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED SHOP DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

   A. LIGHT GAUGE METAL, INCLUDING BUT NOT LIMITED TO, SOFFITS, CLADDING, CEILINGS, ETC.

   B. MISCELLANEOUS METALS INCLUDING STEEL STAIRS, MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT MACHINES, PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF MECHANICAL SYSTEMS.

   C. MISCELLANEOUS HANGERS, CHANDELIERS, CABINETS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, ETC. OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY ANY OF THE CONSTRUCTION DOCUMENTS.

   D. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELIER FIXTURES, BAR CABINETS, AND ART WORK / MOBILES.

GENERAL CONTRACTOR TO INCLUDE IN THEIR BID THE COST OF THE ABOVE NOTED SPECIALTY ENGINEERING.

ADDITIONS/RENOVATIONS

1. ALL EXISTING CONDITIONS, DIMENSIONS, LOCATIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR IN THE FIELD AND COORDINATED WITH THE NEW CONSTRUCTION PRIOR TO PREPARATION OF WORKING OR SHOP DRAWINGS OR FABRICATION AND COMMENCEMENT OF ANY WORK. IF DISCREPANCIES ARE DISCOVERED BETWEEN EXISTING CONDITIONS AND CONTRACT WORK, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER PRIOR TO PERFORMANCE OF ANY WORK.

2. PRIOR TO SHOP DRAWING PREPARATION, THE GENERAL CONTRACTOR IS TO INVESTIGATE AND VERIFY ACTUAL FIELD CONDITIONS, EXPOSED OR CONCEALED AND TAKE INTO ACCOUNT ANY POSSIBLE CONSTRUCTION INTERFERENCES AND RELOCATIONS OF, BUT NOT LIMITED TO STRUCTURES, EQUIPMENT, UTILITIES, CABLES, DUCT LINES, PIPING, DRAIN LINES, ETC.

3. ANY PORTION OF EXISTING STRUCTURE ADJACENT TO THE CONSTRUCTION WHICH MAY BY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION AS GOOD AS BEFORE THE COMMENCEMENT OF THE WORK AT NO ADDITIONAL COSTS TO THE OWNER.

4. EXISTING STRUCTURE SHALL BE PROTECTED, MAINTAINED AND SUPPORTED DURING THE CONSTRUCTION WORK.

FOUNDATION

1. SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.

2. EXCAVATION & BACKFILL:

   A. ALL EXCAVATION SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES, PIPING, ETC.

   B. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES.

3. DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.

CONCRETE

1. CONCRETE ELEMENTS TO HAVE THE FOLLOWING STRENGTHS:

   A. SLAB-ON-GRADE 3000 PSI

2. ALL CONCRETE SHALL BE READY MIX AND MEET THE FOLLOWING REQUIREMENTS:

   A. A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.

   B. SLUMPS SHALL BE 4" MINIMUM AND 6" MAXIMUM.

   C. CONCRETE SHALL HAVE 3 ± 1 PERCENT AIR ENTRAINMENT.

   D. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55.

   E. JOBSITE WATER SHALL NOT BE ADDED.

3. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318/ LATEST EDITION), THE ACI DETAILING MANUAL (ACI 315/ LATEST EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301/ LATEST EDITION).

4. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A 185, UNLESS OTHERWISE SPECIFIED. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.

5. REQUIREMENTS: WWF SHALL COMPLY WITH ASTM A 185.

6. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f) = 30 AND LEVELNESS F(l) = 20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. STRUCTURAL STEEL SHALL CONFORM TO:

   A. ASTM SPECIFICATION A 36 FOR MISCELLANEOUS STEEL SHAPES (ANGLES, PLATES, ETC.).NEW STEEL COLUMNS TO BE A500 GRADE B (f_y = 46 KSI).

   B. ALL STEEL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.

   C. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASEMENT.

STEEL CONTINUED

2. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.

3. ALL ALUMINUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.

4. ALL STEEL WELDING RODS SHALL BE E70XX ELECTRODES.

5. EQUIPMENT SUPPORTS:

   PROVIDE ALL SUPPORTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS, INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPORT EQUIPMENT OR PIPING FROM METAL DECKING.

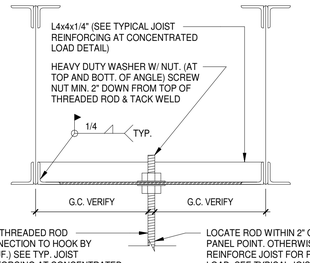
SHOP DRAWINGS

1. THE SHOP DRAWINGS SHALL BE SUBMITTED IN COMPLETE PACKAGES FOR THE FOLLOWING:

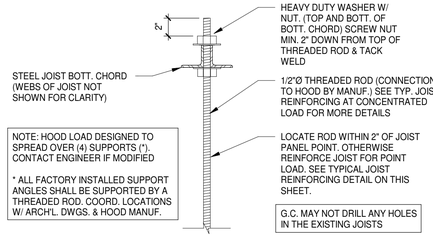
   A. CONCRETE MIX DESIGNS

   B. CONCRETE REINFORCING STEEL AND WELDED WIRE FABRIC

2. PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.



SUPPORT LOCATED BETWEEN STEEL JOIST



NOTE: HOOD LOAD DESIGNED TO SPREAD OVER (4) SUPPORTS (*). CONTACT ENGINEER IF MODIFIED

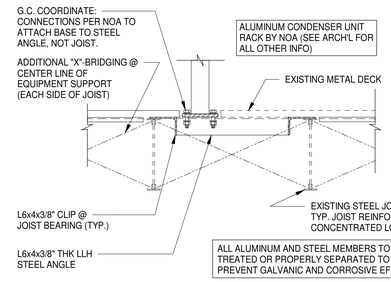
* ALL FACTORY INSTALLED SUPPORT ANGLES SHALL BE SUPPORTED BY A THREADED ROD. COORD. LOCATIONS W/ ARCH'L. DWGS. & HOOD MANUF.

G.C. MAY NOT DRILL ANY HOLES IN THE EXISTING JOISTS

SUPPORT LOCATED AT STEEL JOIST

TYPICAL HANGING HOOD DETAILS

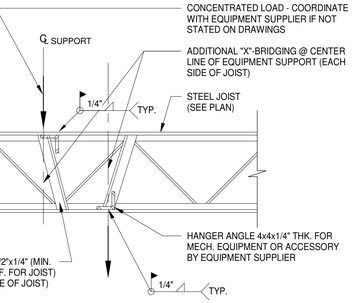
N.T.S.



TYPICAL ALUMINUM C.U. RACK ATTACHMENT DETAIL

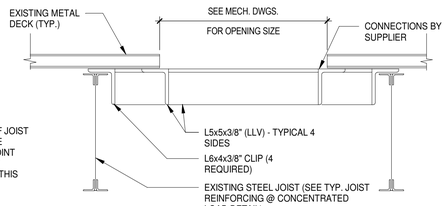
N.T.S.

CRITERIA FOR C.U. RACK:
- 110 psf WIND PRESSURE
- DIMENSIONS AND WEIGHT: VERIFY W/ MEP AND ARCH'L.



TYPICAL JOIST REINFORCING AT CONCENTRATED LOAD

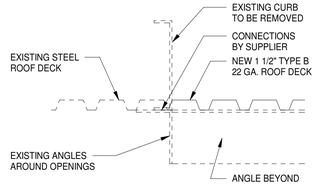
N.T.S.



1. PROVIDE AT PERIMETER OF ALL ROOFTOP MECHANICAL UNITS AND OPENINGS AS REQUIRED.
2. SEE MECH. DWGS. FOR OPENING SIZE & LOCATION.
3. PROVIDE L3x3x5/16" AT ROOF SUMPS.

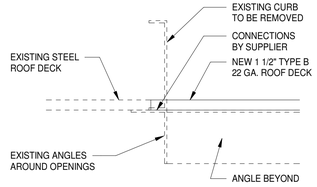
TYP ROOF OPENING DETAIL @ JOISTS FOR RTU'S

N.T.S.



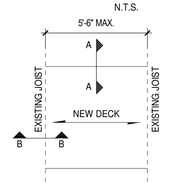
DETAIL A

N.T.S.



DETAIL B

N.T.S.



INFILL OF EXISTING OPENING IN ROOF DETAIL

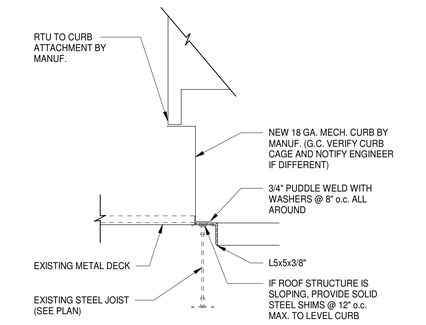
N.T.S.

ALLOWABLE						
COMPONENT & CLADDING WIND DESIGN PRESSURES						
PRESSURES BASED ON V_{asd}	ROOF WIND LOADS				WALL WIND LOADS (SEE NOTE 1)	
	ROOF AREA (10 SF)				WALL AREA (10 SF)	
Kd IS INCLUDED	1	1'	2	3	4	5
PRESSURE (PSF)	15	15	34	34	34	34
SUCTION (PSF)	-59	-34	-77	-77	-37	-45

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FLORIDA BUILDING CODE 8TH EDITION (2023) BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
2. REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS.
3. CORNER DISTANCE, A = 7'-0"
   .6h = 10'-0"
   .2h = 3'-4"

ULTIMATE						
COMPONENT & CLADDING WIND DESIGN PRESSURES						
PRESSURES BASED ON V_{asd}	ROOF WIND LOADS				WALL WIND LOADS (SEE NOTE 1)	
	ROOF AREA (10 SF)				WALL AREA (10 SF)	
Kd IS INCLUDED	1	1'	2	3	4	5
PRESSURE (PSF)	25	25	56	56	56	56
SUCTION (PSF)	-97	-56	-128	-128	-61	-75

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FLORIDA BUILDING CODE 8TH EDITION (2023) BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
2. REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS.
3. CORNER DISTANCE, A = 7'-0"
   .6h = 10'-0"
   .2h = 3'-4"

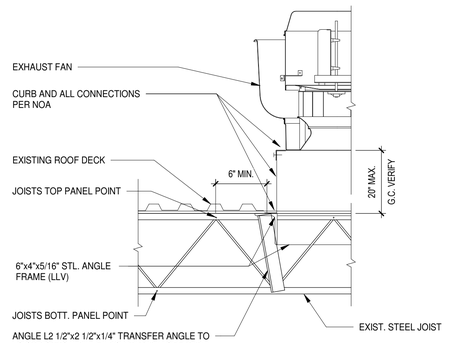


MECHANICAL UNIT ROOF ATTACHMENT

RTU CURB TO MAINTAIN 8" CURB HEIGHT ABOVE FINISHED ROOF. SEE ARCH. DWGS. FOR MORE INFORMATION.

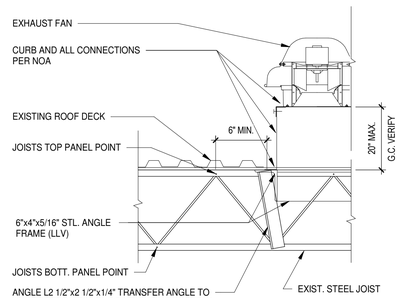
N.T.S.

ALTERNATE TO 3/4" PUDDLE WELDS: #12 TEK SCREWS @ 4" o.c. OR .145 DIA. P.A.F. @ 8" o.c.



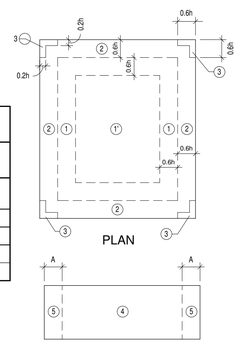
TYPICAL EXHAUST FAN (EF-1) CURB ATTACHMENT DETAIL

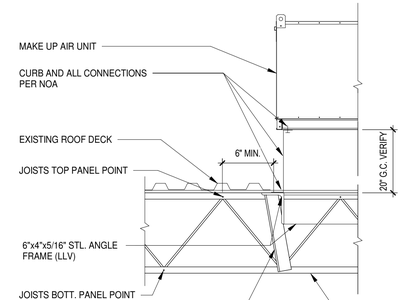
N.T.S.



TYPICAL EXHAUST FAN (EF-2) CURB ATTACHMENT DETAIL

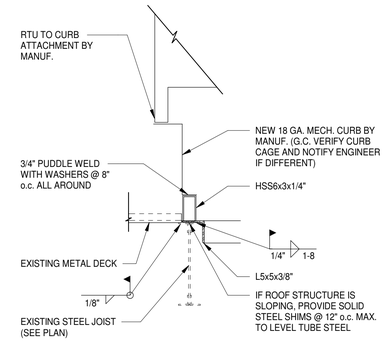
N.T.S.





TYP MAKE UP AIR (MAU-1) CURB ATTACHMENT DETAIL

N.T.S.

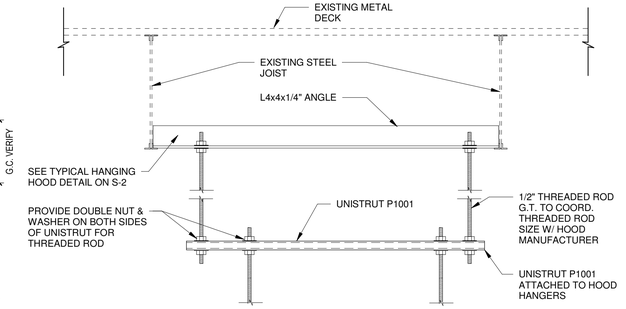


ALTERNATE MECHANICAL UNIT ROOF ATTACHMENT

EXTENSION OF RTU CURB TO MAINTAIN 8" CURB HEIGHT ABOVE FINISHED ROOF.

N.T.S.

ALTERNATE TO 3/4" PUDDLE WELDS: #12 TEK SCREWS @ 4" o.c. OR .145 DIA. P.A.F. @ 8" o.c.



TYPICAL HOOD AND DUCT WORK DETAIL

N.T.S.

Consultant:

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AR0014815

STATE OF FLORIDA · STEFANO De LUCA · REGISTERED ARCHITECT · AR0014815

If this item has been digitally signed and sealed by Stefano De Luca using a digital signature, then the SHA authentication code must be verified on any electronic copies. Printed copies of a digitally signed document are not considered signed and sealed.

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Drawn: Author
Checked: Checker

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CMG2321

Contents:
SCHEDULES, DETAILS & NOTES

S-3

BID SET
07/11/2024

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JOB # 671.244

FIRE PROTECTION MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SPRINKLER HEAD	EXPOSED STRUCTURE CEILING	BRASS OR CHROME UPRIGHT
	GYPSUM BOARD CEILING	CHROME RECESSED PENDANT WITH CHROME ESCUTCHEON
	STONEWOOD	CONCEALED PENDENT WITH BLACK COVER PLATE
	LAY-IN CEILING	CHROME RECESSED PENDANT WITH CHROME ESCUTCHEON
	WALK-IN COOLER	FREEZE-PROOF PENDANT

FIRE PROTECTION SCHEDULE

ROOM NUM.	DESCRIPTION	CEILING	HEIGHT	HAZARD
100	MAIN ENTRY	EXPOSED STRUCTURE	VARIES	LIGHT
101	DINING	EXPOSED STRUCTURE	VARIES	LIGHT
102	UTENSIL	EXPOSED STRUCTURE	VARIES	LIGHT
103	PASSAGE	GYPSUM BOARD	9'-0"	LIGHT
104	POS	GYPSUM BOARD	9'-0"	ORD. HAZ. 1
105	ORDERING	EXPOSED STRUCTURE	VARIES	LIGHT
106	SERVING	GYPSUM BOARD	9'-0"	ORD. HAZ. 1
107	COOKING	LAY-IN	10'-0"	ORD. HAZ. 1
108	KITCHEN	LAY-IN	10'-0"	ORD. HAZ. 1
109	OFFICE	LAY-IN	9'-0"	LIGHT
110	COOLER	INTEGRAL	9'-4"	ORD. HAZ. 1
111	WOMEN	GYPSUM BOARD	8'-0"	LIGHT
112	MEN	GYPSUM BOARD	8'-0"	LIGHT

FIRE PROTECTION SCHEDULE NOTES

A CEILING HEIGHT SHOWN IS APPROXIMATE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT CEILING HEIGHT.

FIRE PROTECTION GENERAL NOTES

A FIRE PROTECTION WORK SHALL BE DONE IN ACCORDANCE WITH THE BUILDING CODE, NFPA, LOCAL FIRE DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.

B EXISTING FIRE PROTECTION SYSTEM: EXISTING WET PIPE SPRINKLER SYSTEM WITH DISTRIBUTION THROUGHOUT SPACE AND HEADS TURNED UP TO DECK.

C FIRE PROTECTION SCOPE OF WORK: MODIFY THE EXISTING HEAD LAYOUT IN THE SPACES SHOWN TO SUIT THE NEW FLOOR PLAN. PROVIDE NEW HEADS AND PIPING AS NECESSARY FOR A COMPLETE SYSTEM. PROVIDE HYDRAULIC CALCULATIONS FOR REVISED FIRE PROTECTION SYSTEM.

D EXISTING FIRE ALARM SYSTEM: EXISTING ADDRESSABLE FIRE ALARM SYSTEM WITH FACP IN BASE BUILDING RISER ROOM, WITH 4" J-BOX FOR TENANT CONNECTION IN SPACE.

E FIRE ALARM SCOPE OF WORK: MODIFY THE EXISTING FIRE ALARM SYSTEM IN THE SPACES SHOWN TO SUIT THE NEW FLOOR PLAN. PROVIDE NEW DEVICES AS NECESSARY FOR A COMPLETE SYSTEM.

F COORDINATE HEAD AND DEVICE LAYOUT WITH EXPOSED DUCTWORK, LIGHT FIXTURES, HVAC EQUIPMENT, ARCHITECTURAL CEILING ELEMENTS, AND WALL-MOUNTED EQUIPMENT. SEE ARCHITECTURAL, HVAC, PLUMBING, AND ELECTRICAL PLANS FOR LOCATIONS. PROVIDE HEADS AND DEVICES IN LAY-IN CEILINGS AT QUARTER POINTS ALONG LONG AXIS OF CEILING TILES.

G SUBMIT FIRE PROTECTION AND FIRE ALARM SHOP DRAWINGS SHOWING HEAD AND DEVICE LAYOUTS TO ARCHITECT PRIOR TO SUBMITTING FOR PERMIT APPROVAL.

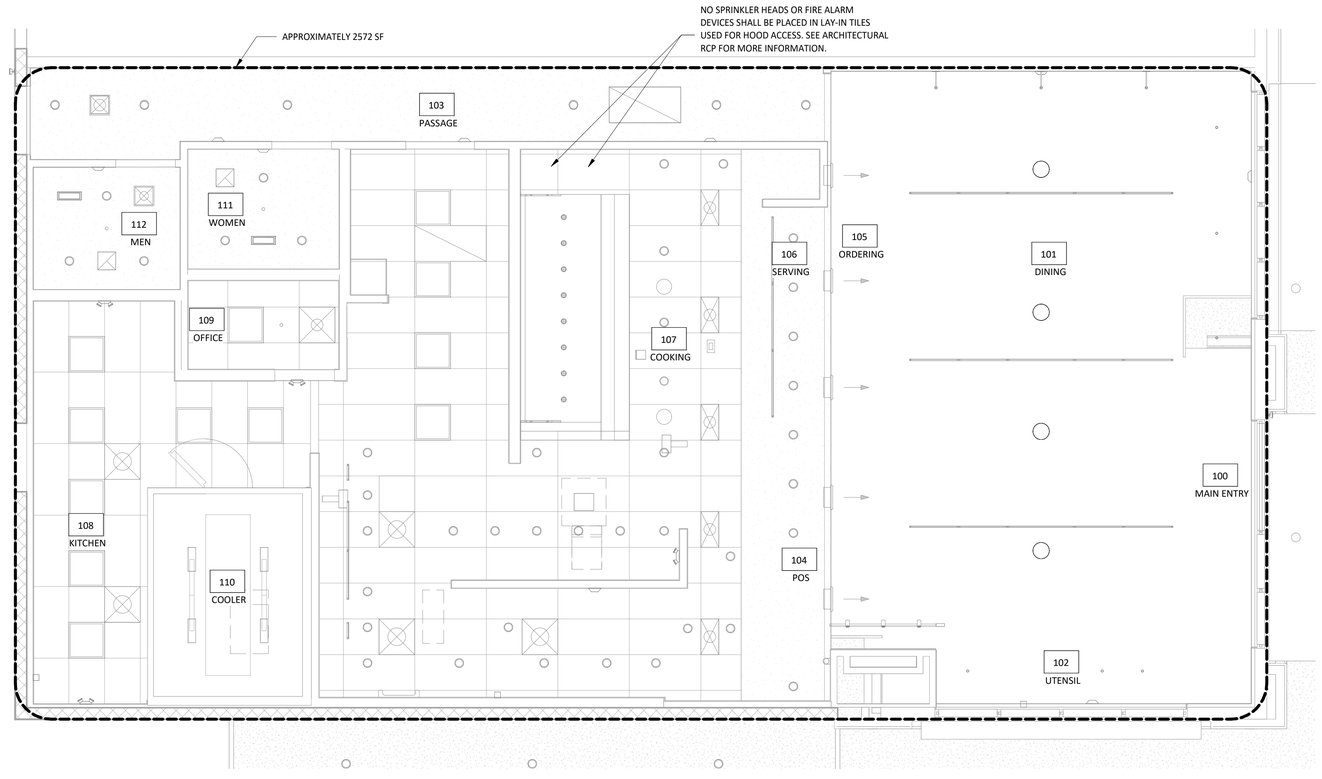
H OBTAIN PERMITS, APPROVALS, AND INSPECTIONS FOR REVISED FIRE PROTECTION AND ALARM SYSTEMS.

I CEILING HEIGHTS AND CEILING FIXTURE PLACEMENTS SHOWN ARE APPROXIMATE. SEE ARCHITECTURAL RCP FOR EXACT CEILING HEIGHTS AND CEILING FIXTURE DIMENSIONS.

J IF A SLAT CEILING SYSTEM IS INSTALLED IN THE DINING ROOM WHERE IT WILL INTERFERE WITH THE PATTERN DEVELOPMENT OF SPRINKLER HEADS ABOVE THE SLAT CEILING (WITHIN 18" BELOW SPRINKLER HEADS) THEN PROVIDE INTERMEDIATE LEVEL IN-RACK PENDANT SPRINKLER HEADS IN SLAT CEILING SYSTEM PER THE ARCHITECTURAL DETAILS.

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.

FOR REFERENCE ONLY:
FIRE PROTECTION AND ALARM SYSTEMS ARE TO BE DESIGNED BY THE GENERAL CONTRACTOR



1 F100 **FIRE PROTECTION PLAN**
1/4" = 1'-0"

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4635 Trueman Blvd. Suite 250
Hilliard, Ohio 43026
Phone: (614) 751-9610
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Contact: Joe Jones
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FOR CONSTRUCTION

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Checked: CJK

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Contents: FIRE PROTECTION PLAN

F100

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 the energy code adopted by the Authority Having Jurisdiction.
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. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
11. Roof curb.
12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
13. 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. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
D. 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," for kitchen hood ducts.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

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 : 8.
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 and/or insulation on ductwork per the material schedule on sheet M010.
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 Tenant 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 GC 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 Tenant, 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. All air terminal devices:
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.

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 the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC 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 OR ROUND AS SHOWN, 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 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 ARCHITECTURAL SHEETS 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 8 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 UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
(E)	EXISTING
EF	EXHAUST FAN
ER	EXHAUST REGISTER
EXT'G	EXISTING
HD	HOOD
MUA	MAKEUP AIR UNIT
OBD	BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
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 AND 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

HVAC SYMBOLS

CEILING DIFFUSER

CEILING-MOUNTED RETURN OR EXHAUST REGISTER

SUPPLY REGISTER

RETURN GRILLE

FLEXIBLE DUCT

MITERED CORNER WITH TURNING VANES

DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION

DUCT-MOUNTED SMOKE DETECTOR

MOTOR-OPERATED DAMPER

MANUAL VOLUME DAMPER

GREASE DUCT CLEANOUT

MITERED CORNER WITHOUT TURNING VANES

GRIDPOINT THERMOSTAT

GRIDPOINT ZONE SENSOR MODULE

GRIDPOINT SUPPLY PROBE

PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

CONNECT TO EXISTING

EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION

AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET

GRILL, REGISTER, OR DIFFUSER TAG:
TAG
NECK SIZE
AIRFLOW [CFM]

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Contents:

HVAC SPECIFICATIONS

M010

HVAC PLAN NOTES

1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.

2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.

3 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.

4 34/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB.

5 32/14 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB.

6 26/18 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 THE SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.

7 32/14 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE 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.

10 8/6 DUCT UP THROUGH ROOF TO EF-2.

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 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 8/E710.

14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.

15 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.

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 8/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 8/E710.

18 INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.

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 2, 4, AND 9/M700. 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. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' 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' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.

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 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.

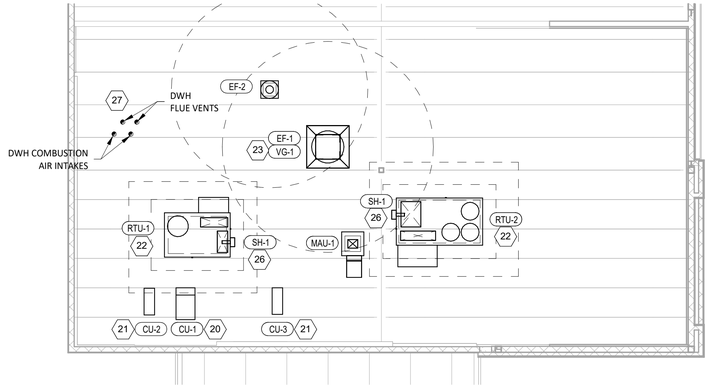
24 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.

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. TYPICAL.

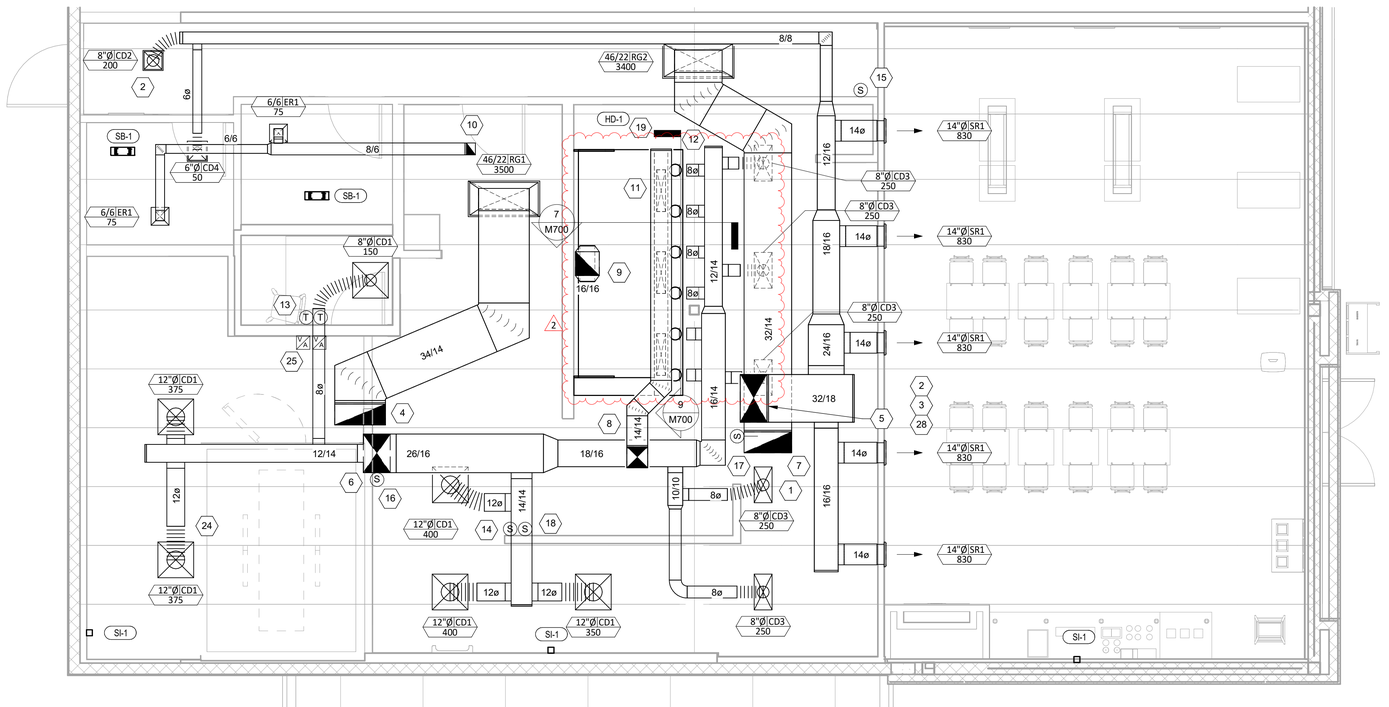
26 INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

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 REFER TO ARCHITECTURAL SHEETS FOR SUPPLY REGISTER ELEVATIONS AND LOCATIONS.



2 M100 **HVAC ROOF PLAN**
1/8" = 1'-0"



1 M100 **HVAC FLOOR PLAN**
1/4" = 1'-0"

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Contents: HVAC PLAN

M100

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
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 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

VIROGUARD SCHEDULE

TAG	QUANITITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	HURRICANE RATED VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIROMATIC

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD4	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE FACE-ACCESSIBLE OBD

FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	2550 CFM	1.20 in-wg	400	2	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	4000	3500	0	500
RTU-2	4400	3400	0	1000
Net Pressurization [CFM]				100

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW		APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	UNTEMPERED MAKEUP AIR UNIT	1300	0.80	350	1 HP	208/3/60	THS	GC	CAPTIVE-AIRE	A1-G10	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

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 INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE 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.

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-404A		200	15 A	6.5 A	208/3/60	WCS	GC	HARFORD	PCL99MOP-3	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS										NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			AIRFLOW [CFM]	SP [in. W.C]	DUCT COLLARS				SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM				AC PLENUM								MANUFACTURER	MODEL	
					NO.	WIDTH	LENGTH	LENGTH	WIDTH				AIRFLOW [CFM]	NO.	WIDTH	LENGTH	AIRFLOW [CFM]	NO.	DIAMETER						
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	2550	0.97	1	10"	24"	12' - 9"	4' - 3"	0.1	13' - 9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH VERTICAL END PANELS, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY					HEATING CAPACITY			# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				TOTAL [CFM]	OA [CFM]	ESP [IN. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F]		COND. EAT [DEG. F]	INPUT [MBH]	OUTPUT [MBH]	EAT [DEG. F]						MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
									DB	WB																
RTU-1	KITCHEN ROOFTOP UNIT	10	12	4000	500	0.8	123	69	75	68	92	250	205	66	2	2	R-410A	25.6	1500	60 A	51.0 A	208/3/60	HES	GC	CARRIER	48FC_M11	FURNISHED WITH HINGED ACCESS PANELS, STANDARD ECONOMIZER W/ DUAL ENTHALPY CONTROLS, BAROMETRIC RELIEF, SUP. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MERV-8 FILTERS, CURB, HAIL GUARD, DISCONNECT, & UNIT-MOUNTED NON-POWERED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	12.5	12.2	4400	1000	0.8	161	84	78	70	92	180	148	63	2	2	R-410A	31.8	1900	80 A	65.0 A	208/3/60	HES	GC	CARRIER	48GC_N14	FURNISHED WITH HINGED ACCESS PANELS, STANDARD ECONOMIZER W/ DUAL ENTHALPY CONTROLS, BAROMETRIC RELIEF, SUP. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MERV-8 FILTERS, CURB, HAIL GUARD, DISCONNECT, & UNIT-MOUNTED NON-POWERED CONVENIENCE RECEPTACLE

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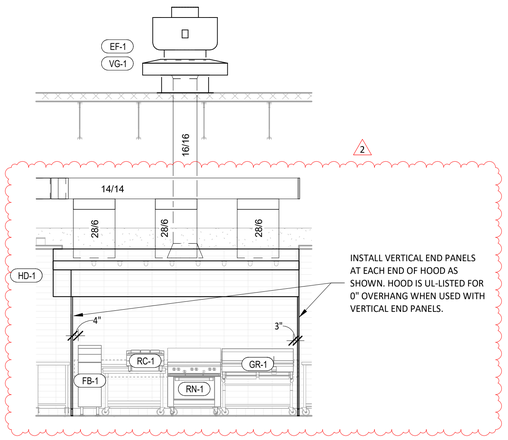
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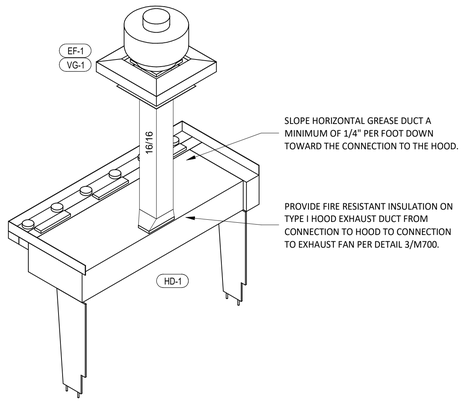
HVAC SCHEDULES

M600



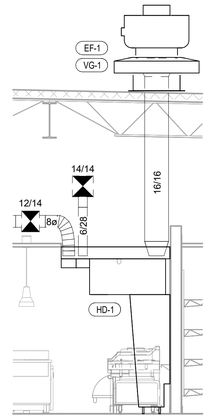
9/M700 HOOD ELEVATION

1/4" = 1'-0"



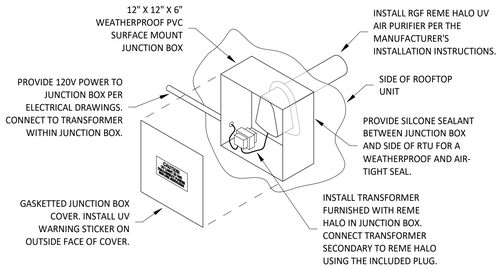
8/M700 HOOD EXHAUST ISOMETRIC

N.T.S.



7/M700 DUCT SECTION AT HOOD

1/4" = 1'-0"



INSTALLATION LOCATION

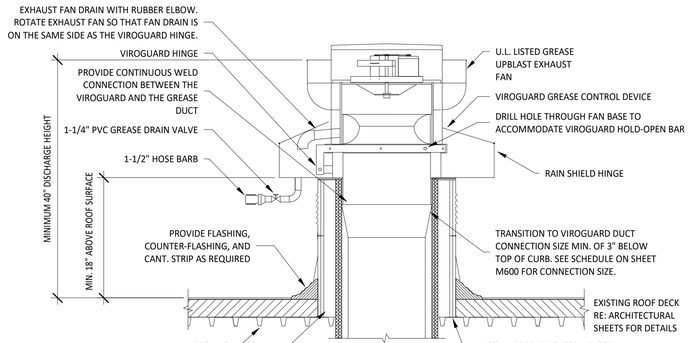
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

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.

6/M700 UV AIR PURIFIER INSTALLATION

N.T.S.

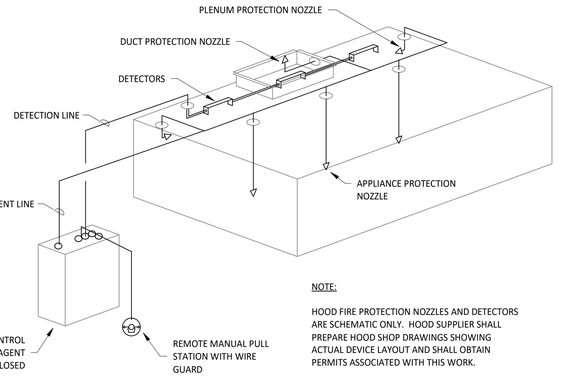


NOTE:

1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

5/M700 GREASE EXHAUST FAN

N.T.S.



NOTE:

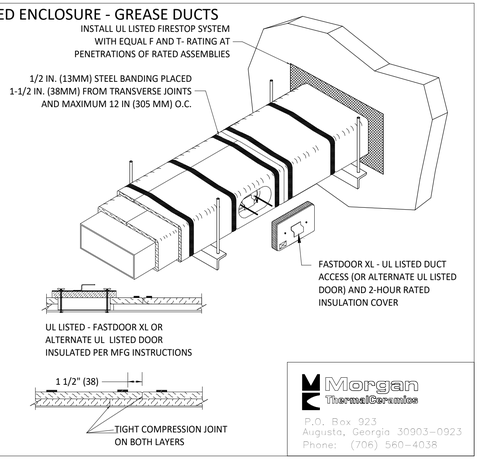
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4/M700 FIRE SUPPRESSION SYSTEM SCHEMATIC

N.T.S.

FIRE RATED ENCLOSURE - GREASE DUCTS

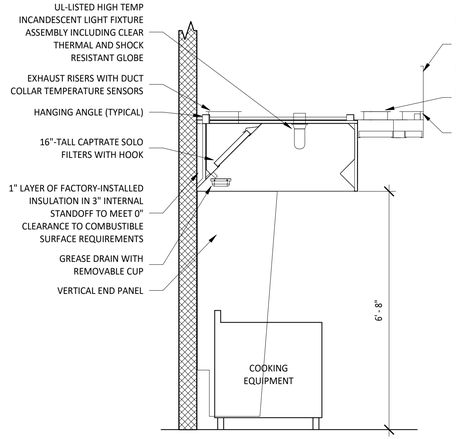
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL 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 20 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
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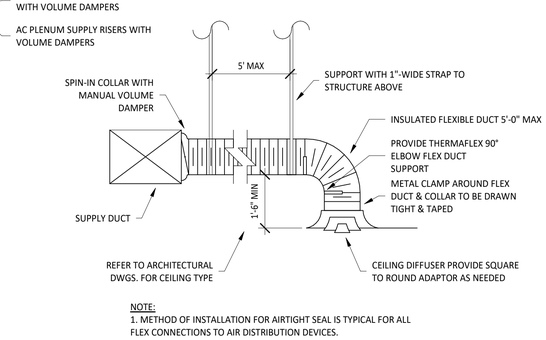
3/M700 FIREMASTER DUCT WRAP - UL HNKT-G18

N.T.S.



2/M700 HOOD SECTION VIEW

N.T.S.



NOTE:

1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1/M700 DIFFUSER CONNECTION

N.T.S.

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Drawn: JEJ
Checked: CJK

Project No.
2401023

Contents:
HVAC DETAILS

M700

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 cold, hot, and recirculation water pipes.
2. Exposed sanitary drains and water supply pipes for public hand sinks.
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 Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.
2. Domestic Cold Water: 1/2-inch preformed glass fiber pipe insulation.
3. P-Trap and Fixture Supplies for public hand sinks: ADA-compliant pre-formed 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 accessible 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 psig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 14 "Plastic Piping Components and Materials."
C. Comply with NSF 61 "Drinking Water System Components -- Health Effects."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (See Material Schedule on sheet P010 for where these materials are to be used)
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.
E. Copper and Copper Alloy Press-Connect Pressure FittingsCopper Press Fittings: ASME B16.51
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.
C. Solvent Cements: As recommended by manufacturer.
D. Plastic Pipe Seals: ASTM F 477, elastomeric gasket.
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.
B. Comply with NSF 14 "Plastic Piping Components and Related Materials".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and vent pipe patterns.
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. Fittings:
a. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
b. Cold Press Mechanical Joint Fitting System: Viega MegaPress
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 or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.
E. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, straightaway pattern, square head, tapered-plug type.
F. 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.
G. 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. Connect branch piping from top or side of horizontal piping.
G. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
H. Install valves in accessible locations, protected from damage.
I. 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.
J. Connect gas piping to equipment and appliances with shutoff valves and unions. Install gas valve upstream from and within 36 inches of each appliance using gas. Install union or flanged connection downstream from valve.
K. 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
Submittals: None.
A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
B. 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 P600
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fixtures with flanges and gasket seals.
B. 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.
C. 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.
D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
E. Fasten wall mounted fittings to reinforcement built into walls.
F. Fasten counter mounted plumbing fixtures to casework.
G. Secure supplies to supports or substrate within pipe space behind fixture.
H. Set mop basins in leveling bed of cement grout.
I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
J. Install water supply stop valves in accessible locations.
K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the Authority Having Jurisdiction.
L. Install full-ring 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.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and material.
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 GENERAL NOTES

A GENERAL NOTES APPLY TO PLUMBING SHEETS.
B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
F PROVIDE STOP VALVES AT FIXTURES.
G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
K 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.
L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
M 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.
N 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.
O 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.
P PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
Q INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILINGS.

PLUMBING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- DOMESTIC COLD WATER
- F — DOMESTIC FILTERED COLD WATER
- S — DOMESTIC SOFTENED COLD WATER
- DOMESTIC HOT WATER (110 DEGREES)
- DOMESTIC HOT WATER RECIRC.
- G — GAS
- G — GAS (ON ROOF)
- SANITARY WASTE
- GW — GREASE WASTE
- SANITARY VENT
- CD — CONDENSATE DRAIN
- X — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- RPBP — REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WM — WATER METER
- GM — GAS METER
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P600 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

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(E)	EXISTING
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT
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 AND 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

PLUMBING 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
SANITARY WASTE & VENT PIPE	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

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Project No.
2401023

Contents:
PLUMBING SPECIFICATIONS

P010

PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY

ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL...

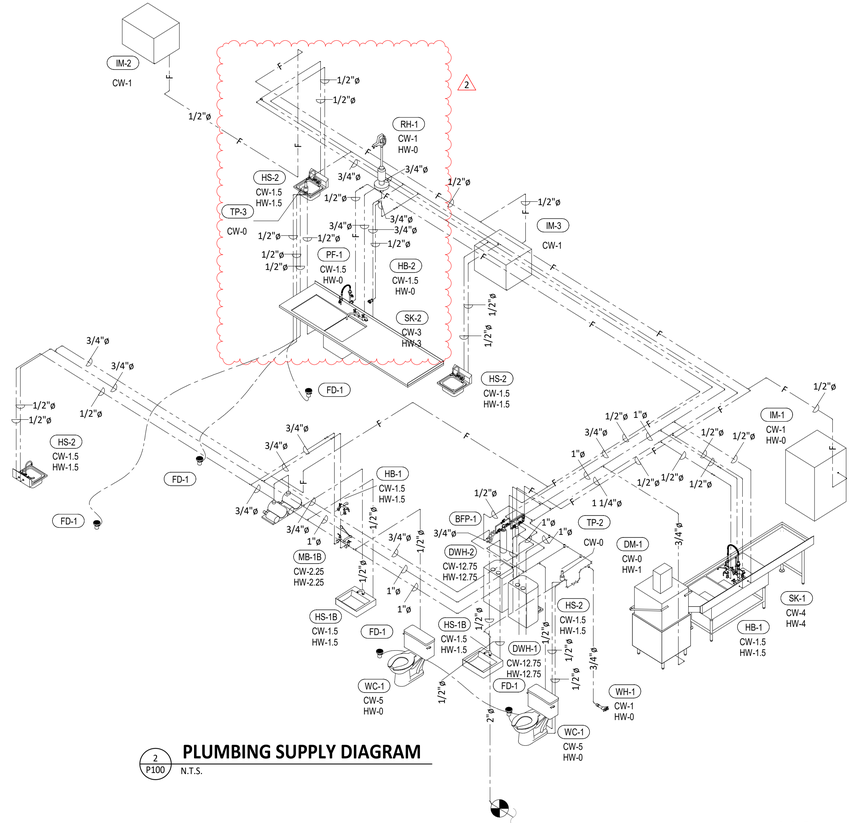
		CONNECTION SIZES		ROUGH-IN	FIXTURE UNITS (EACH)				FIXTURE UNITS (TOTAL)		
TAG	FIXTURE	CW	HW	TYPE	CW	HW	TOTAL	COUNT	CW	HW	TOTAL
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	1		1	1	1		1
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)		3/4"	ANGLE 3/4"	0	1	1	1	0	1	1
ET-1	EXPANSION TANK	3/4"		DIRECT	0	0	0	1	0	0	0
HB-1	HOSE BIBB	1/2"	1/2"	MIP	1.5	1.5	2	1	1.5	1.5	4
HB-2	HOSE BIBB	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	8
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1	0	1	1	1	0	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1		1
IM-3	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1		1
MB-1B	MOP BASIN FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	2.25	2.25	3
PF-1	POT FILLER	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
RH-1	MILD CLIMATE ROOF HYDRANT	3/4"		DIRECT	1	0	1	1	1	0	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	4	4	4	1	4	4	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	3	3	4
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	5	0	5	1	5	0	10
WH-1	MILD CLIMATE WALL HYDRANT	3/4"		DIRECT	1	0	1	1	1	0	1
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PLUMBING SUPPLY PLAN NOTES

1. CONNECT TO THE EXISTING 2" DOMESTIC WATER LINE OUTSIDE THE SPACE. RELOCATE INCOMING WATER SERVICE TO COME INTO THE BUILDING IN THE LOCATION SHOWN. REMOVE EXISTING PIPING IN NEW SERVICE DOOR LOCATION.
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 1/P700.
4. PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5. PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' 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 ADDITIONAL INFORMATION.
7. PROVIDE A 1,600 MBH NATURAL GAS SERVICE TO A NEW GAS METER ON THE EXTERIOR WALL OF THE BUILDING AT THE LOCATION SHOWN. NATURAL GAS DELIVERY PRESSURE AFTER THE METER SHALL BE 7" W.C. PROVIDE A NATURAL GAS REGULATOR IF GAS COMPANY CANNOT SUPPLY A DELIVERY PRESSURE OF 7" W.C. TO THE BUILDING.

PLUMBING SUPPLY PLAN NOTES

8. PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
9. SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. 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 INTERIOR AND EXTERIOR EXPOSED 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 14/P700.
15. PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
16. CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
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.
19. PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
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 AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
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 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING CONNECTION HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSABLE SHUTOFF VALVE BELOW THE DISH MACHINE AND INSTALL THE STRAINER FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
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-INS FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27. PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' 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.
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. EXT'G WATER LINE FEEDING WALL HYDRANT IN THIS AREA. REWORK TO CONCEAL PIPE FROM WINDOWS AND HOLD TIGHT IN JOIST SPACE.
31. HOLD FILTERED WATER PIPE BELOW UTENSIL COUNTER AND TIGHT TO THE EXTERIOR WALL AS SHOWN. PAINT ANY EXPOSED PIPE INSULATION TO MATCH SURROUNDING AREA.

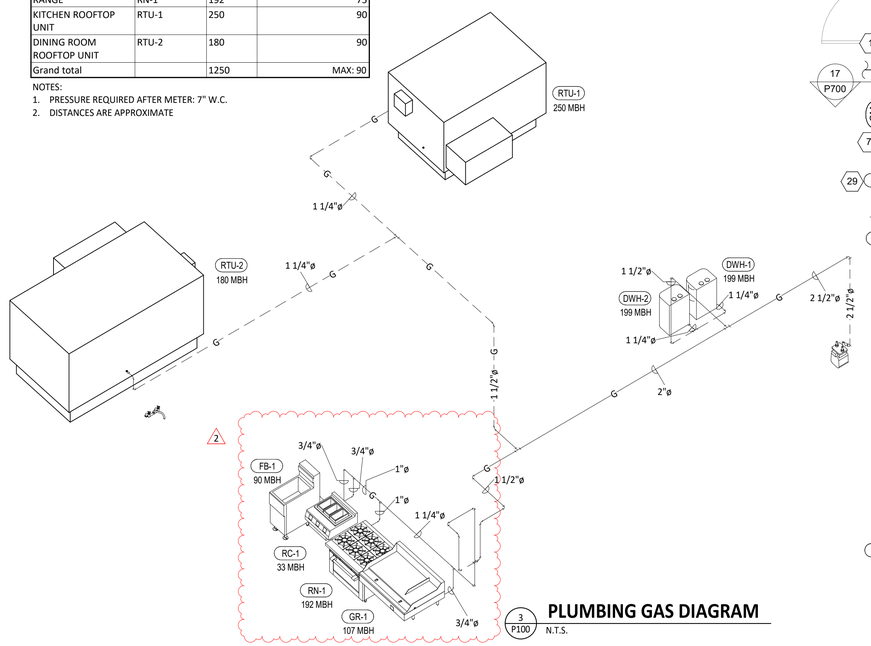


2 P100 **PLUMBING SUPPLY DIAGRAM**
N.T.S.

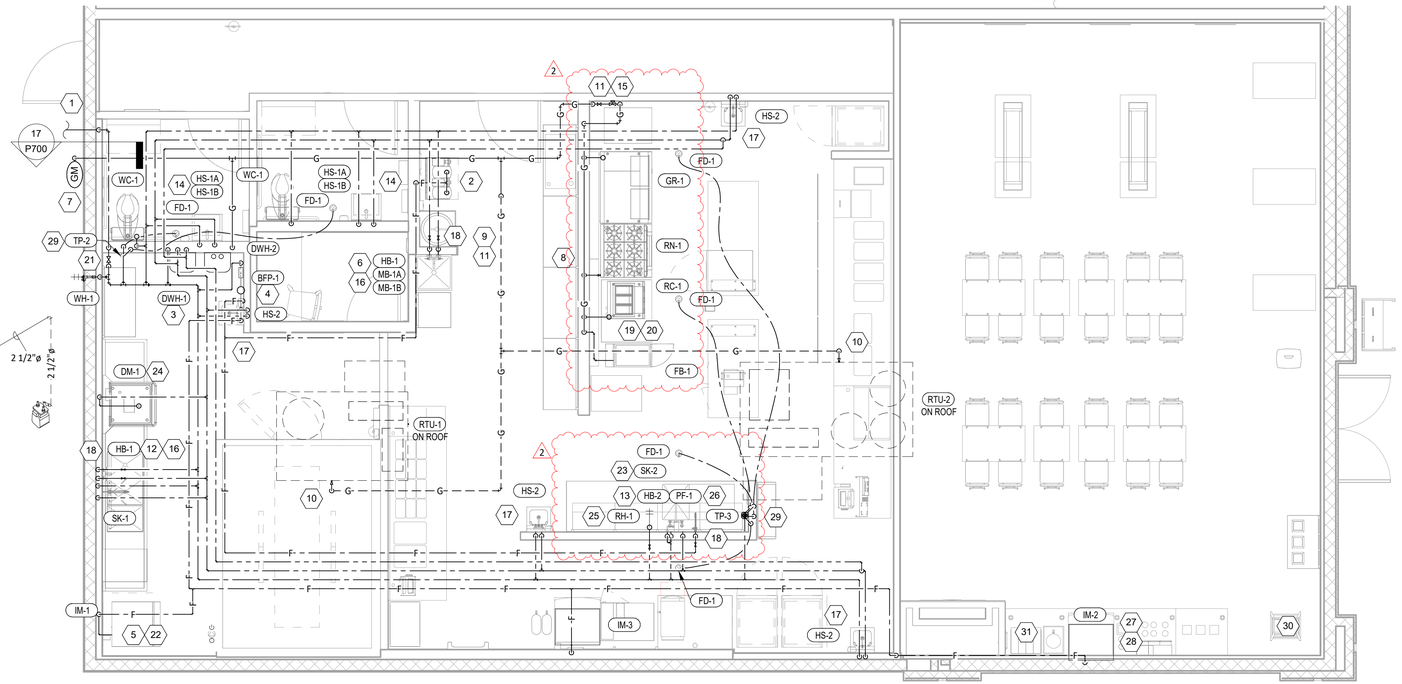
CONNECTED GAS LOAD

FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	35
WATER HEATER	DWH-2	199	35
GAS FRYER	FB-1	90	80
GRIDDLE	GR-1	107	80
RICE COOKER	RC-1	33	75
RANGE	RN-1	192	75
KITCHEN ROOFTOP UNIT	RTU-1	250	90
DINING ROOM ROOFTOP UNIT	RTU-2	180	90
Grand total		1250	MAX: 90

NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE



3 P100 **PLUMBING GAS DIAGRAM**
N.T.S.



1 P100 **PLUMBING SUPPLY PLAN**
1/4" = 1'-0"

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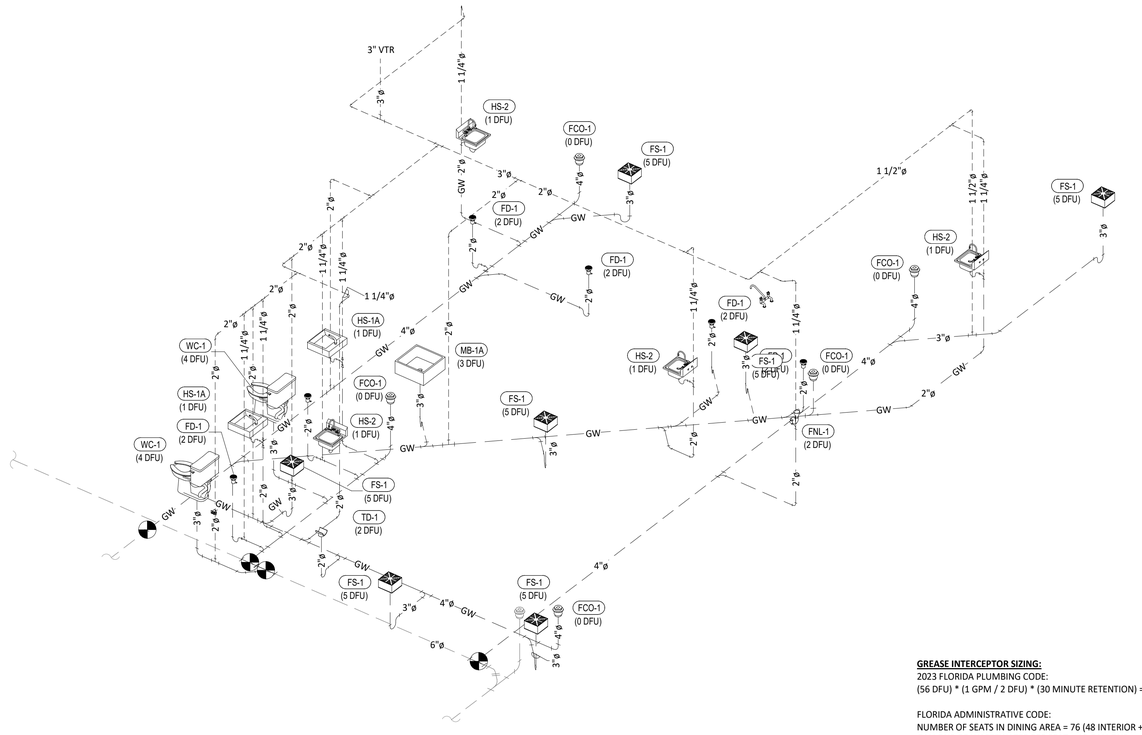
Project No.: 2401023

Contents:
PLUMBING PLAN
WATER & GAS

P100

PLUMBING WASTE AND VENT PLAN NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE CONDENSATE PUMP P-1 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 BE ROUTED TO THE PRIMARY ROOF DRAIN FROM THE CONDENSATE PUMP.
2. PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.
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 12/P700.
4. PROVIDE PVC 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 ICE MAKER 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 A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
7. CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING 1250 GALLON INTERCEPTOR.
8. CONNECT TO EXISTING 4" SANITARY SEWER.
9. PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10. 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.
11. 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.
12. SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
13. DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
14. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
15. PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
16. PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
17. 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.
18. PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700. PROVIDE ROOF MOUNTED PIPING FROM RTU TO PRIMARY ROOF DRAIN PER DETAIL 5/P700.
19. PROVIDE 3/4" PVC DRAIN PIPE 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.

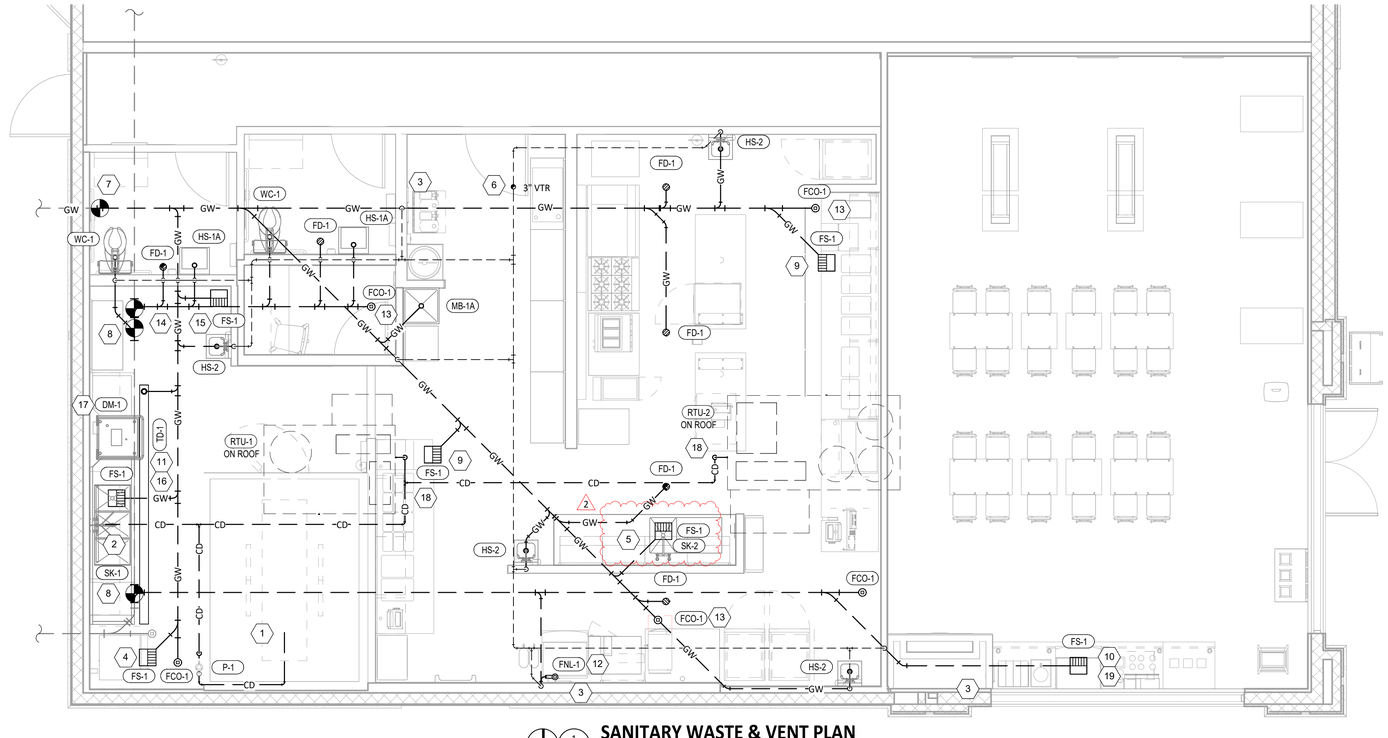


PLUMBING WASTE AND VENT DIAGRAM

P110 N.T.S.

GREASE INTERCEPTOR SIZING:
2023 FLORIDA PLUMBING CODE:
(56 DFU) * (1 GPM / 2 DFU) * (30 MINUTE RETENTION) = 840 GALLON MINIMUM GI REQUIRED

FLORIDA ADMINISTRATIVE CODE:
NUMBER OF SEATS IN DINING AREA = 76 (48 INTERIOR + 28 EXTERIOR)
GALLONS OF WASTEWATER PER SEAT = 10 GALLONS
NUMBER OF HOURS ESTABLISHMENT IS OPEN = 11 HOURS
LOADING FACTOR: 1.0
GI SIZE = (76) * (10 GALLONS) * (11/12) * (1.0) = 696 GALLONS MINIMUM



SANITARY WASTE & VENT PLAN

1/P110 1/4" = 1'-0"

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Contents:
PLUMBING PLAN
WASTE & VENT

P110

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			FIXTURE UNITS (EACH)				FIXTURE UNITS (TOTAL)			
								CW	HW	WASTE	CW	HW	TOTAL	SAN	CW	HW	TOTAL	SAN
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			1		1		1	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	FURNISHED BY KES	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1		3/4"	3/4"	0	1	1	0	0	1	1	0
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0	0	0	0	0	0	0	0
FCO-1	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	5			4"				0	0	0	0	0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	6			2"			0	2	0	0	0	12
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3832T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"	0	0		2	0	0	0	2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	7			3"			0	5	0	0	0	35
HB-1	HOSE BIBB	KES	GC	T&S	B-2345-01-XX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"		1.5	1.5	2	0	3	3	4	0
HB-2	HOSE BIBB	KES	GC	T&S	B-0730	SILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET.	1	1/2"			1.5	0	1.5	0	1.5	0	1.5	0
HS-1A	RESTROOM HAND SINK	GC	GC	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. APPROVED ALTERNATE: KOHLER K-2084	2	0"	0"	2"	0	0	0	1	0	0	0	2
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	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.	2	1/2"	1/2"	0"	1.5	1.5	2	0	3	3	4	0
HS-2	KITCHEN HAND SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	1.5	1.5	2	1	6	6	8	4
IM-1	ICE MAKER - BOH	KES	GC	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1	0	1	0	1	0	1	0
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MAKER (INTEGRAL AIR COOLED)	1	1/2"			1		1		1	0	1	0
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MAKER (REMOTE AIR COOLED)	1	1/2"			1		1		1	0	1	0
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1	0"	0"	3"	0	0	0	3	0	0	0	3
MB-1B	MOP BASIN FAUCET	KES	GC	FURNISHED BY KES	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE.	1	1/2"	1/2"	0"	2.25	2.25	3	0	2.25	2.25	3	0
P-1	CONDENSATE PUMP	GC	GC	LITTLE GIANT	VCMX-20ULS	HIGH CAPACITY CONDENSATE REMOVAL PUMP WITH CHECK VALVE AND SAFETY SWITCH	1	1/2"							0	0	0	0
PF-1	POT FILLER	KES	GC	FURNISHED BY KES	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND 3/8" NPT FEMALE INLET	1	1/2"			1.5	0	1.5		1.5	0	1.5	0
RH-1	MILD CLIMATE ROOF HYDRANT	GC	GC	WOODFORD	RHMC-MS	ROOF HYDRANT WITH ASSE 1052 DUAL CHECK BACKFLOW PREVENTER	1	3/4"			1	0	1		1	0	1	0
SK-1	THREE COMPARTMENT SINK	KES	GC	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	4	4	4	5	4	4	4	5
SK-2	PREP SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	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 12/P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"	0	0	0	2	0	0	0	2
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0		0		0	0	0	0
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0		0		0	0	0	0
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 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).	2	1/2"		3"	5	0	5	4	10	0	10	8
WH-1	MILD CLIMATE WALL HYDRANT	GC	GC	WOODFORD	MODEL 84	WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER	1	3/4"			1	0	1	0	1	0	1	0
							49								40.25	22.25	47	73

WATER HEATER SCHEDULE - INSTANTANEOUS

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	INPUT MBH	DELIVERY	NOTES
DWH-1	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIEN	NPE-240A2	199	354 GPH @ 65° RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH 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).
DWH-2	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIEN	NPE-240A2	199	354 GPH @ 65° RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH 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).

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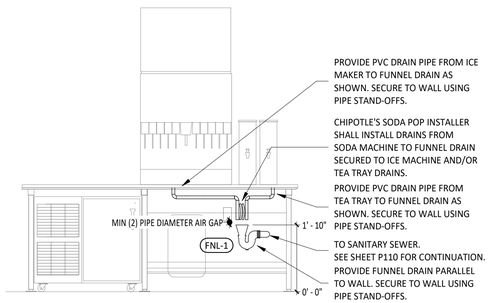
Revisions:

Drawn: JEJ
Checked: CJK

Project No.: 2401023

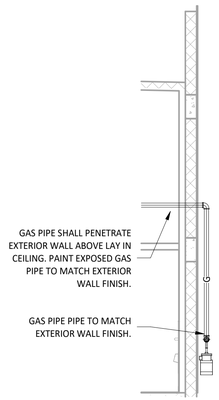
Contents:
PLUMBING SCHEDULES

P600



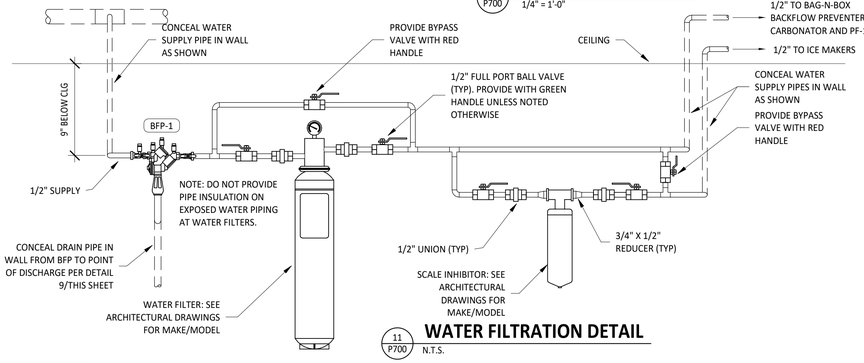
18 P700 PUW FUNNEL DRAIN DETAIL

N.T.S.



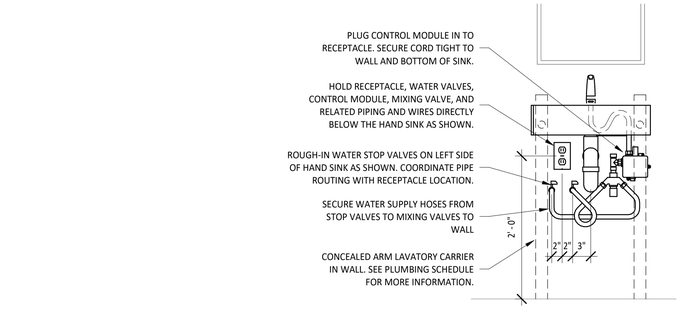
17 P700 GAS METER SECTION

1/4" = 1'-0"



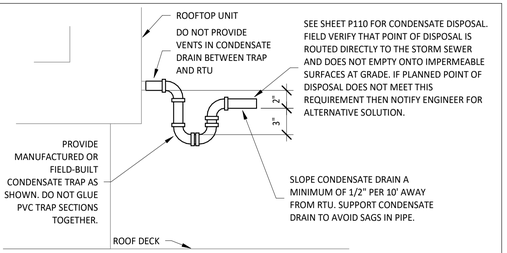
11 P700 WATER FILTRATION DETAIL

N.T.S.



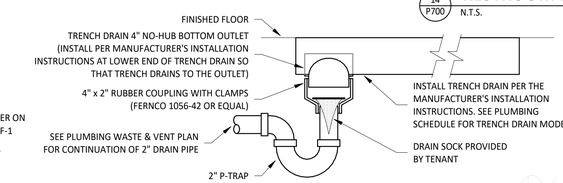
14 P700 RESTROOM HAND SINK DETAIL

N.T.S.



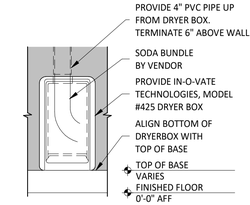
13 P700 RTU CONDENSATE TRAP DETAIL

N.T.S.



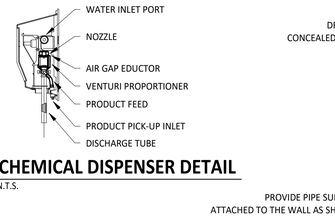
15 P700 TRENCH DRAIN DETAIL

N.T.S.



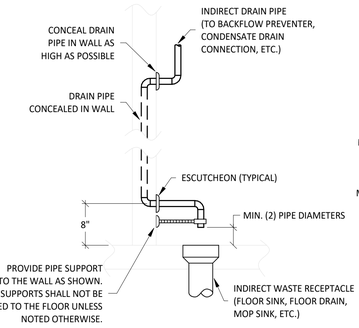
12 P700 SODA TERMINATION DETAIL

N.T.S.



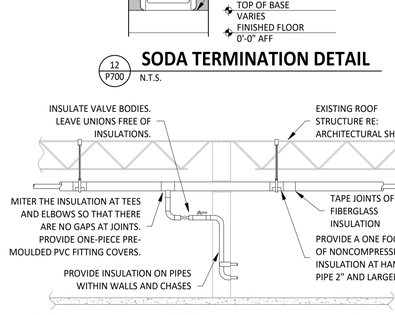
10 P700 CHEMICAL DISPENSER DETAIL

N.T.S.



9 P700 INDIRECT WASTE PIPING DETAIL

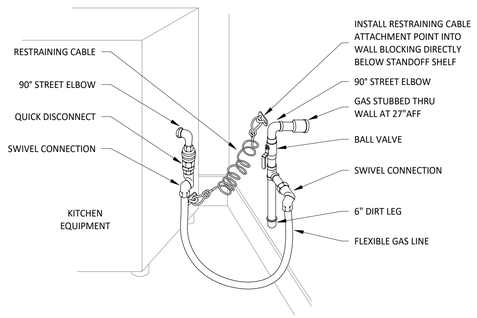
N.T.S.



PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL 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 WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

8 P700 PIPE INSULATION DETAIL

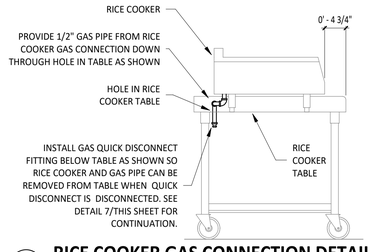
N.T.S.



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.

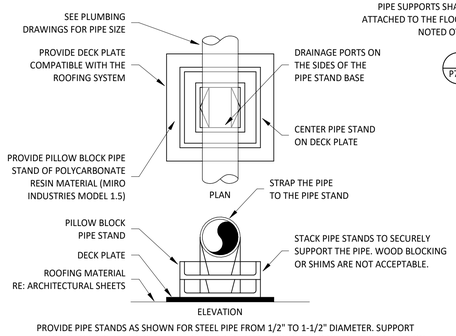
7 P700 KITCHEN GAS EQUIPMENT DETAIL

N.T.S.



6 P700 RICE COOKER GAS CONNECTION DETAIL

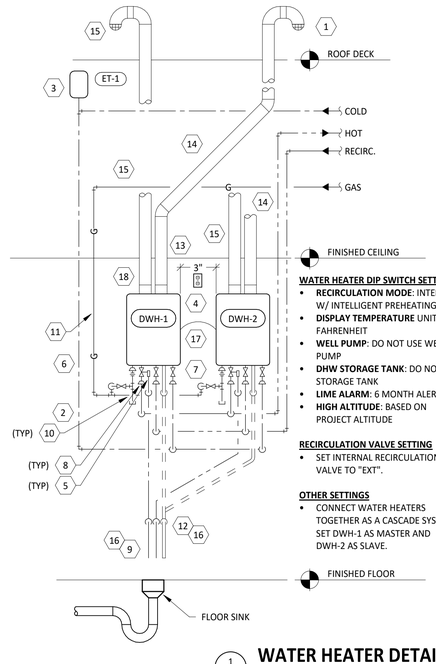
N.T.S.



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.

5 P700 ROOFTOP PIPING SUPPORT

N.T.S.



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 GENERAL NOTES

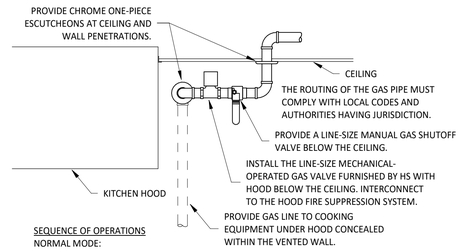
A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F.

WATER HEATER DETAIL NOTES

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 PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 AS 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 POINT OF DISCHARGE.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE CONCEALED WATER PIPING. DO NOT PROVIDE INSULATION ON EXPOSED WATER PIPING AT WATER HEATER.
7. INTALL "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 IS LARGER THAN THE WATER HEATER CONNECTIONS SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE FLOOR DRAIN OR MOP BASIN. 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 2"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 WATER HEATER.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 9/THIS SHEET.
17. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
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.

1 P700 WATER HEATER DETAIL

N.T.S.

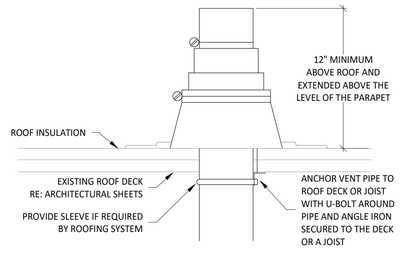


SEQUENCE OF OPERATIONS
NORMAL MODE:
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.

EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

4 P700 KITCHEN GAS SHUTOFF DETAIL

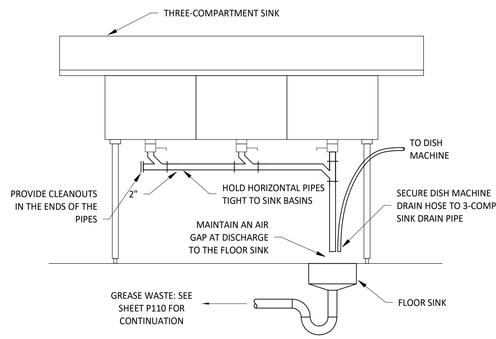
N.T.S.



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL 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.

3 P700 VENT THROUGH ROOF

N.T.S.



2 P700 WARE-WASHING SINK DETAIL

N.T.S.

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Project No.
2401023

Contents:
PLUMBING DETAILS

P700

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.2 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, 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. Tenant'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 Tenant 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.
1.3 NOTIFICATION
A. Coordinate with Tenant 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.
1.4 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 (or equivalent) 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.
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 metal 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 rigid metal conduit; flexible metal conduit may be used 3 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	277/480V
1.	Phase A:	Black	Brown
2.	Phase B:	Red	Orange
3.	Phase C:	Blue	Yellow
4.	Neutral:	White	Gray
5.	Ground:	Green	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: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
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 unless otherwise indicated.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete and paint is cured.
END OF SECTION 16140

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. 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. Provide typed, permantently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
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: None.
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 Fluorescent 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 MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
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
CONDUITS	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 WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
WIRING DEVICES	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL, RICHLITE, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

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
- 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" CONDUIT 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.

ELECTRICAL GENERAL NOTES

A GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
B ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
D INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
E CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
F INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
G INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
H PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
I 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.
J DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
K INSTALL LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES.
2 L GC TO REPLACE ALL EXISTING EXPOSED MC CONDUIT IN FRONT OF HOUSE WITH EMT.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
(E)	EXISTING
EXT'G	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
WP	WEATHERPROOF
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
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
TAB	TENANT'S TEST AND 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

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ELECTRICAL SPECIFICATIONS

E010

LIGHTING FIXTURE SCHEDULE

TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	12	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	2 7	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL with NTM-57W/M1 Trim	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27K-25D LED (25°-2700K) W/ GU 24 BASE	120	17	
B2	41	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	14	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	6	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	4	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	2	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	MLED1-B-WP	(1) SPECIAL LED	4	1	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	4	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	10	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
EX-1	6	CANOPY DOWNLIGHT	CEILING	EXT'G	EXT'G	KLIK	LPXL 50 F00 40K 6.6 S FLD TP - LPNEMA4ENCL DRIVER - LP100WPRITRNEXCL	INTEGRAL LED	120	7	CANOPY DOWNLIGHT
G4	1	PATIO LIGHT POLE	POLE	TLS	GC	RAB Lighting	ALED10Y W/ PS4-11-10D2 POLE	INTEGRAL LED	120	20	SEE PLAN FOR LAMP HEAD CONFIGURATION. REFER TO ARCHITECTURAL SHEETS FOR FINISH AND INSTALLATION DETAIL
H1	8	HOOD LIGHT	SURFACE	THS/TLS	THS	VAPOR PROOF LIGHT FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) TCP L16A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	120	9	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P3	3	ACCENT LIGHT - ARTWORK LIGHT	WALL	TLS	GC	HI-LITE MFG. CO.	H-CW2700-B	(1) 12W ECOSTORY PAR30 LED	120	12	
P5	7	PENDANT	SURFACE	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	120	5	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	TLS	GC	FEDERAL SIGNAL	SLM500B W/ SLMBW-012-024	INTEGRAL	16	0	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	3	TRACK HEAD	TRACK	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	1	TRACK (6 FEET)	SURFACE	TLS	GC	JUNO	T 6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
TCL-0.5	1	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
W1	4	WIC LED FIXTURE	SURFACE	WCS	GC	FURNISHED WITH WIC	FURNISHED WITH WIC	INTEGRAL LED	120	29	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE NOTES

A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTUREA RE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.

B. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.

C. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

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 8FCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH (4 CHANNEL)	1	TLS	GC	ACUITY	nPODMA 4P WH	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

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	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	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	40	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

ELECTRICAL LIGHTING PLAN NOTES

1 INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710

2 FOR UNCIRCUITED LIGHT FIXTURES, 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 LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.

6 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.

7 PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.

8 PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.

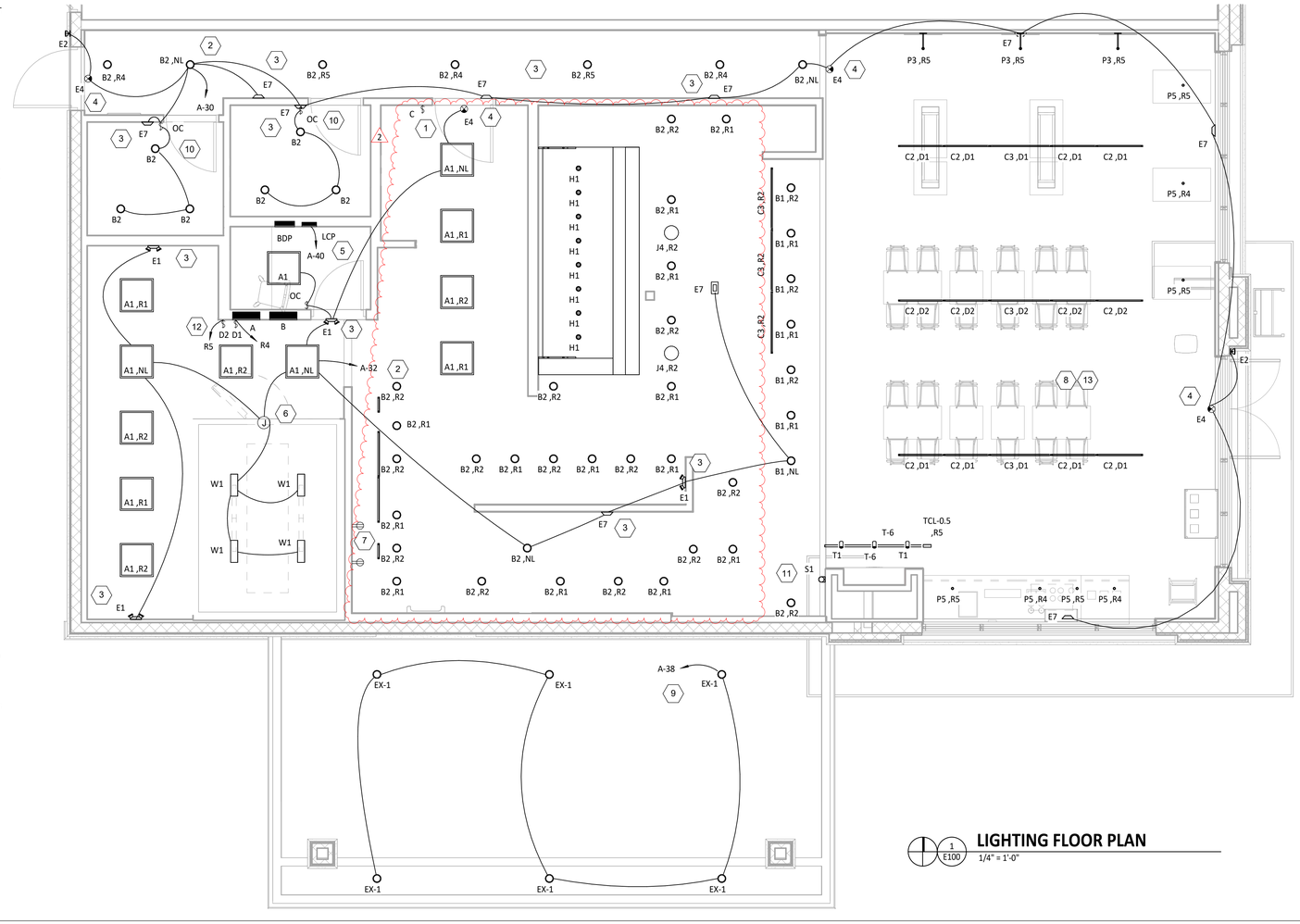
9 CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.

10 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 TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.

11 INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

12 INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.

13 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.



LIGHTING FLOOR PLAN

1/4" = 1'-0"

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Contents:

ELECTRICAL LIGHTING PLAN

E100

ELECTRICAL POWER PLAN NOTES

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 AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700.

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 INTEGRAL 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 EXISTING SIGN CIRCUIT, CIRCUITING TO LANDLORD HOUSE PANEL.

1 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 MARSHALL 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 A RECESSED J-BOX AT 48" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 3/4" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA. TERMINATE CONDUIT WITH A CONDUIT BUSHING.

8 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 FEET OF SLACK AT EACH END.

9 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.

10 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.

11 PROVIDE (2) EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.

12 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.

13 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.

14 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.

15 UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.

16 PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.

17 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.

18 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

19 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.

20 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.

21 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.

22 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".

23 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."

24 PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE 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.

25 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).

26 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.

27 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN THREE J-BOXES INTEGRAL TO PREP TABLES (FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTACLE).

28 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

29 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

30 INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM 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.

31 PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.

32 PROVIDE HORIZONTAL SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

33 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.

34 PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND (4) #12, #12 N., #12 G. IN 1" C. FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

35 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.

36 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".

37 LABEL RECEPTACLE "UV INSECT TRAP".

38 INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.

39 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 8/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.

40 PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.

41 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.

42 CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.

43 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

44 PROVIDE RECEPTACLE FOR 2-DOOR AND/OR 1-DOOR REFRIGERATOR WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.

45 PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.

46 SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.

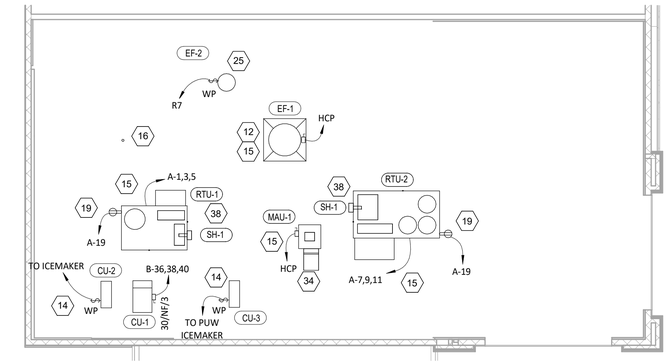
47 INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.

48 PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.

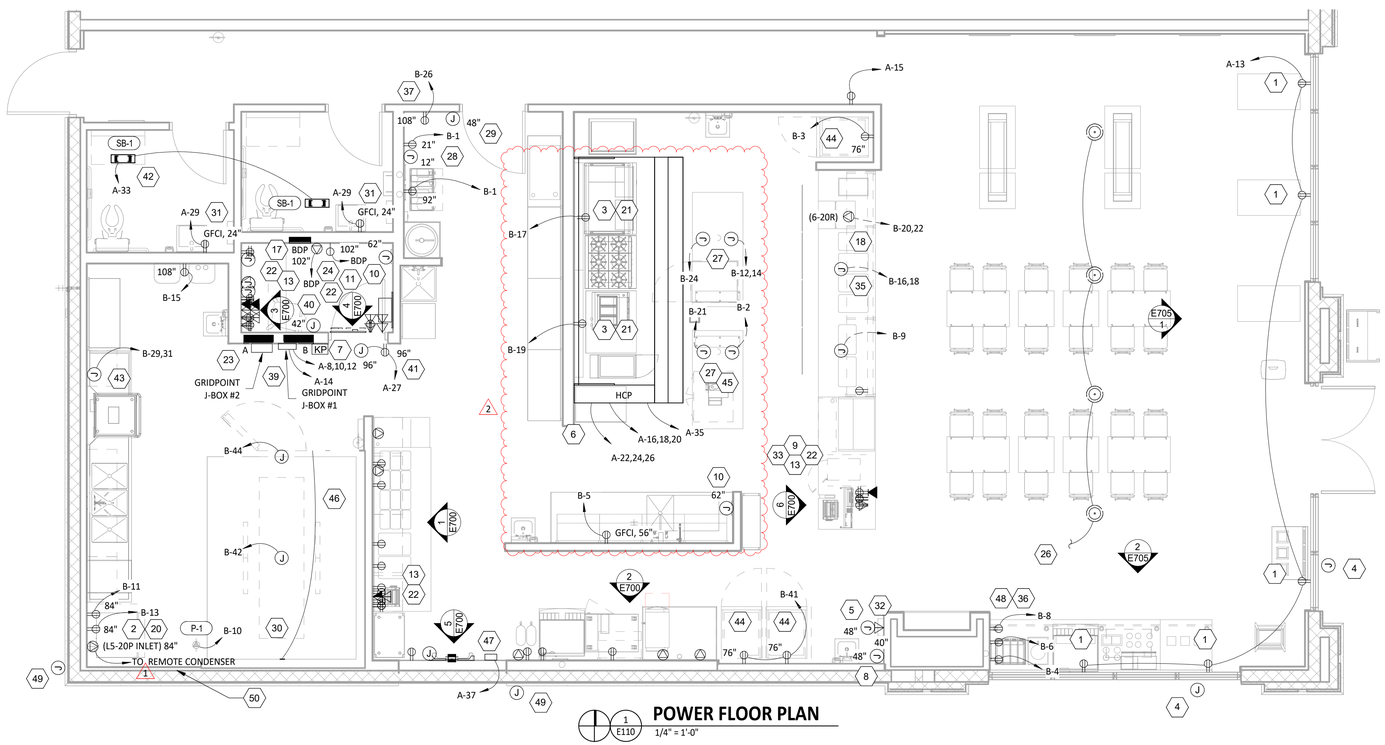
49 PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.

50 DEMO EXISTING ELECTRICAL PANEL IN THIS LOCATION. REROUTE EXISTING MAIN SERVICE CONDUCTORS TO NEW PANEL LOCATIONS. FIELD VERIFY SIZE AND NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY IF CONDITIONS DO NOT MATCH.

1



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

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Contents:

ELECTRICAL POWER PLAN

E110

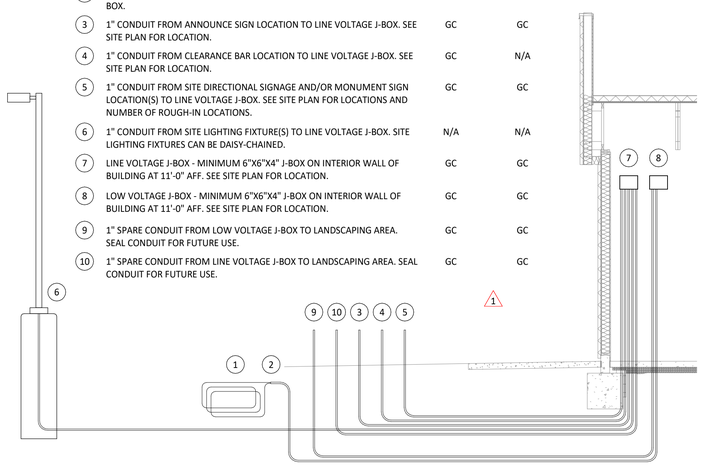
ELECTRICAL POWER PLAN NOTES

1. INSTALL VEHICLE DETECTION LOOP FURNISHED BY TLS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
2. PROVIDE INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
3. PROVIDE EMPTY CONDUIT WITH PULL STRING TO CLEARANCE BAR. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4. PROVIDE 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
5. PROVIDE 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.

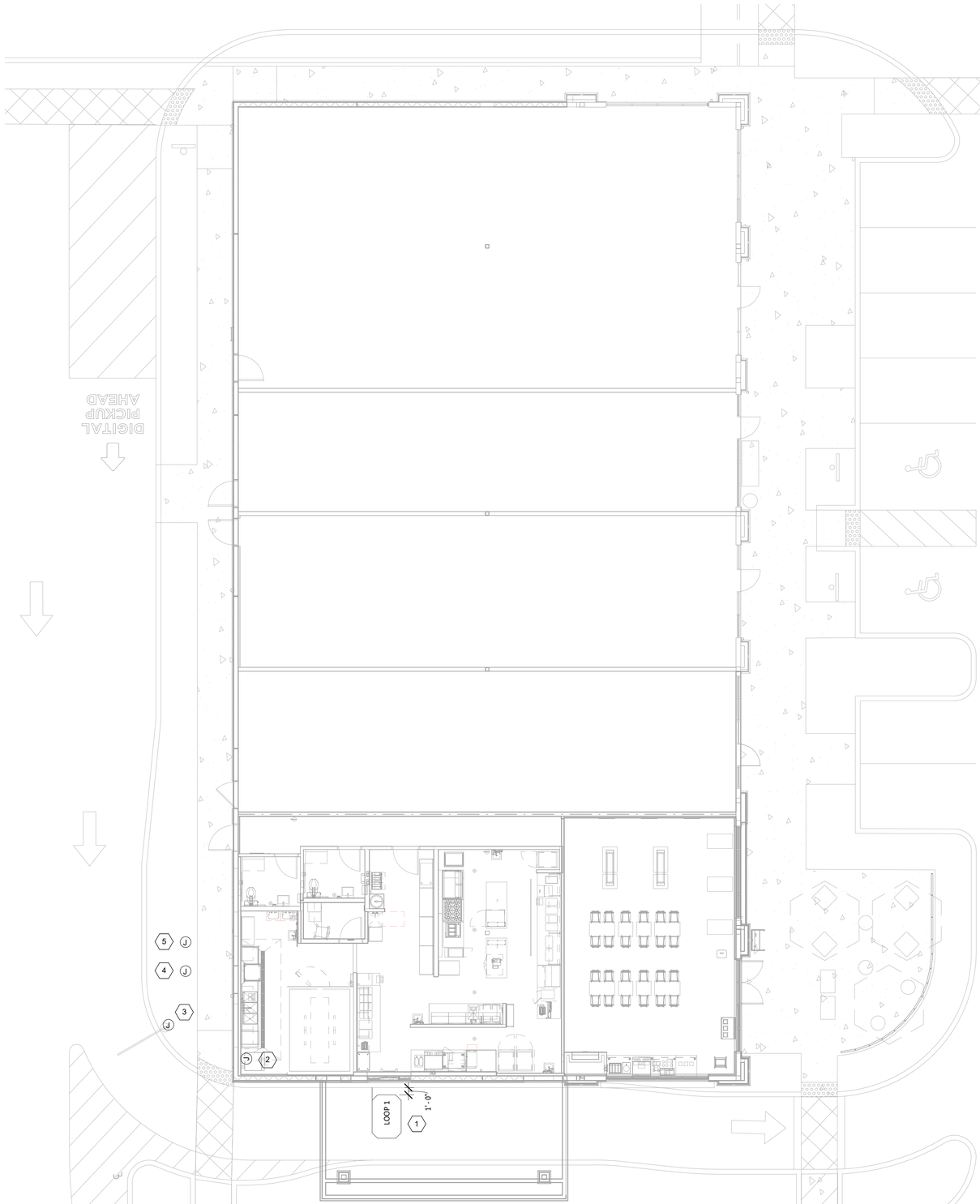
TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATIONS.	GC	GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.	GC	GC
3	1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	N/A
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	GC	GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	N/A	N/A
7	LINE VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
8	LOW VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC

GENERAL NOTES

A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.



2 E115 **SITE CONDUIT DETAIL**
N.T.S.



1 E115 **POWER SITE PLAN**
1/8" = 1'-0"

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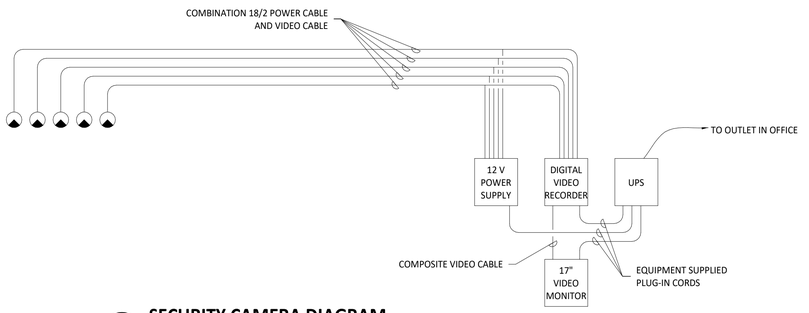
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2401023

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ELECTRICAL SITE POWER PLAN

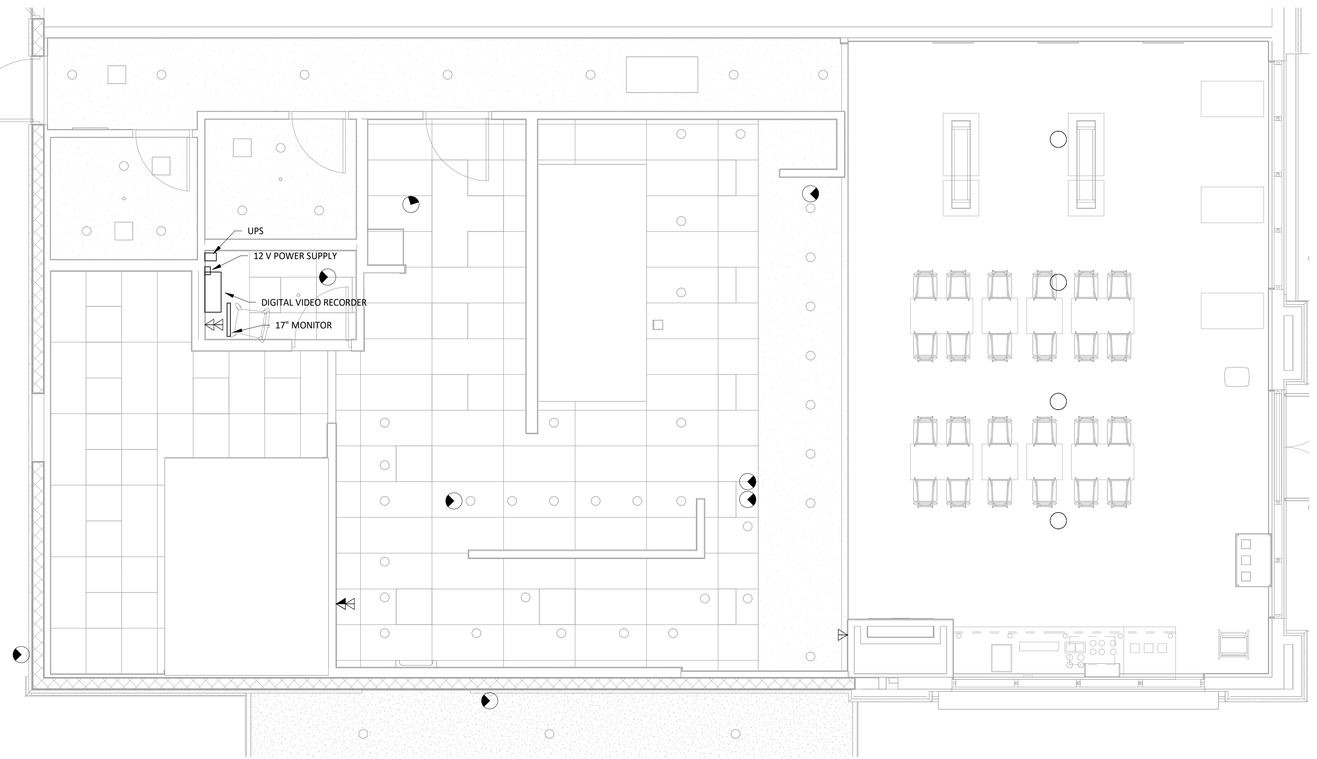
E115

ELECTRICAL SECURITY CAMERA 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
- S — GENERAL PURPOSE 1-POLE SWITCH
- SM — MANUAL STARTER WITH PILOT LIGHT
- SOC — OCCUPANCY SENSOR ACTIVATED WALL SWITCH (MANUFACTURER: WATTSTOPPER)
- NEMA 5-20R DUPLEX RECEPTACLE
- SECURITY CAMERA



2/E120 **SECURITY CAMERA DIAGRAM**
N.T.S.



1/E120 **SECURITY CAMERA FLOOR PLAN**
1/4" = 1'-0"

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ELECT. SECURITY CAMERA PLAN

E120

Panel Name: BDP
Volts: 120
Phases: 1
Wires: 2
Mains: LUGS
Amperage: 20 A
Mounting: Recessed
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	Load
1	POS	15 A	1	0.2 kVA
2	DML - POS	15 A	1	0.2 kVA
3	DML - ORDERING SYSTEM	15 A	1	0.7 kVA
4	OFFICE - SECURITY SYSTEM	15 A	1	0.2 kVA
5	OFFICE - COMPUTER	15 A	1	0.4 kVA
6	OFFICE - DVR/ISP	15 A	1	0.4 kVA
		Total Load:		2.0 kVA
		Total Amps:		17 A

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: A
MAINS: MCB
AMPERAGE: 400 A
MCB RATING: 400 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [VA] A	LOAD [VA] B	LOAD [VA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1							6.1	0.0		-	0.0		3	60	TVSS (4-#6, #10 G. IN 1" C.)	2
3	AIR CONDITIONER - KITCHEN (RTU-1) (3-#6, #10 G. in 1" C.)	60	3	HACR	51.0	C		6.1	0.0							4
5									6.1	0.0						6
7							7.8	0.0		-	0.0		3	20	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	8
9	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#4, #8 G. in 1-1/4" C.)	80	3	HACR	65.0	C		7.8	0.0							10
11									7.8	0.0						12
13	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		1.5	G	0.2	0.2		G	1.5		1	20	GRIDPOINT TRANSFORMER	14
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	1.2							16
17	Panel BDP	20	1		16.5	G			2.0	E	10.4		3	20	HOOD EXHAUST FAN (EF-1) (3-#12, #12 G. IN 3/4" C)	18
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G; E	0.4	1.2								20
21	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1		6.0	G		0.7	0.5							22
23	SECURITY/AUDIO Seguridad y audio	20	1		3.0	G			0.4	E	3.9		3	15	HOOD MAKEUP AIR FAN (MAU-1) (3-#12, #12 G. IN 3/4" C)	24
25	SPARE	20	1		--	--	0.0	0.5								26
27	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G		1.1	0.5	A; E	4.4		1	15	RESTROOM FAN (EF-2)	28
29	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G			0.4	0.5	A		1	20	LIGHTING - DINING ROOM Iluminación - Comedor	30
31	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.9	G	0.8	1.6		G; A	13.4		1	20	LIGHTING - KITCHEN Iluminación - Cocina	32
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E		0.0	0.0	--	--		1	20	SPARE	34
35	HD-1 (CONTROL AND LIGHTS) (control y luces)	15	1		1.5	E			0.2	0.0	--	--	1	20	SPARE	36
37	PICK UP WINDOW NOTIFICATION	20	1		0.3	G	0.0	0.1		A; B	0.5		1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38
39	SPARE	20	1		--	--		0.0	0.0	A	0.0		1	20	LIGHTING CONTROL PANEL	40
41	SPARE	20	1		--	--			0.0	0.2	G	1.5	1	20	PICK-UP WINDOW	42
43	SPARE	20	1		--	--	0.0	0.0		--	--		1	20	SPARE	44
45	SPARE	20	1		--	--		0.0	0.0	--	--		1	20	SPARE	46
47	SPARE	20	1		--	--			0.0	0.0	--	--	1	20	SPARE	48
49	SPARE	20	1		--	--	0.0	0.0		--	--		1	20	SPARE	50
51	SPARE	20	1		--	--		0.0	0.0	--	--		1	20	SPARE	52
53	SPARE	20	1		--	--			0.0	0.0	--	--	1	20	SPARE	54
							18.4	--		--	--		1	--		
	FEED THRU (PANEL B) (4-500 KCMIL, #1/0 G. IN 4" C.)	0	3	LUGS	153.7	Spare; F; E		19.0	--	--	--		1	--		
									18.0	--	--	--	1	--		
							PHASE TOTAL [kVA]:			**37.3 kVA**	**37.2 kVA**				**37.3 kVA**	
							PHASE TOTAL [AMPS]:			**311 A**	**310 A**				**311 A**	

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%		3 kVA	
B	EXTERIOR LIGHTING	0 kVA	125.00%		0 kVA	**TOTAL CONNECTED kVA:** 112 kVA
C	COMFORT COOLING	42 kVA	100.00%	+ 25% LARGEST MOTOR	42 kVA	**TOTAL CONNECTED AMPS:** 310 A
D	COMFORT HEATING	0 kVA	0.00%		0 kVA	**TOTAL ESTIMATED kVA:** 93.0 kVA
E	MISC. MOTOR	6 kVA	100.00%		6 kVA	**TOTAL ESTIMATED AMPS:** 258 A
F	KITCHEN EQUIPMENT	55 kVA	65.00%		36 kVA	
G	RECEPTACLES	6 kVA	100.00%		6 kVA	

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: B
MAINS: LUGS
AMPERAGE: 400 A
MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [VA] A	LOAD [VA] B	LOAD [VA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.9	F	1.3	1.4		F	11.3		1	20	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	2
3	UPRIGHT REFRIGERATOR - 1 DOOR Refrigerador vertical	20	1	GFCI	5.0	F		0.6	1.1	F	9.4	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	4
5	FOOD PREP TABLE Mesa para la preparación de alimentos	20	1		11.3	F			1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	6
7	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F	1.1	1.0		F	8.5	GFCI	1	20	BUBBLER	8
9	COLD TOP (SERVE LINE) Tabla fría (línea de servicio)	20	1		12.0	F		1.4	0.2	E	1.5	GFCI	1	20	CONDENSATE PUMP	10
11	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.2	F	10.0		2	20	CARVING STATION Estación para cortar carnes	12
13	ICE MAKER Máquina para hacer hielo	20	1	GFCI	16.0	F	1.9	1.0								14
15	GAS WATER HEATER Calentador de agua a gas	20	1	GFCI	5.0	F		0.6	2.1	F	20.0		2	30	HOT FOOD SERVER (SERVE) (2-#10, #10 N., #10 G. in 3/4" C.) Servidor de alimentos	16
17	GAS GRIDDLE Plancha de gas	20	1	GFCI	1.5	F			0.2							18
19	GAS FRYER Freidora de gas	20	1	GFCI	0.6	F	0.1	1.4		F	13.0	GFCI	2	20	TORTILLA PRESS (SERVE LINE) (2-#10, #10 G. in 3/4" C.) Calentador de tortillas	20
21	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	15	1		1.5	F		0.2	1.4							22
23	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F			0.2	0.3	F	2.6		1	20	REFRIGERATOR (COOK LINE) Refrigerador (línea para cocinar)	24
25	TORTILLA PRESS (SML) (2-#10, #10 G. IN 3/4" C.) Calentador de tortillas (línea del fax)	20	2	GFCI	13.0	F	1.4	0.2		F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	26
27								1.4	2.1	F	20.0	GFCI	2	30	HOT FOOD SERVER (SML) (2-#10, #10 N., #10 G. in 3/4" C.) Servidor de alimentos calientes (línea de fax)	28
29	DISH MACHINE (2-#10, #10 G. IN 3/4" C.) Lavavajillas	30	2		25.0	F			2.6	2.1						30
31							2.6	1.4		F	11.7	GFCI	1	20	FOODWARMER (SML) Calentador de alimentos (línea de fax)	32
33	QUESADILLA MAKER - PUW (2-#10, #10 G. IN 3/4" C.)	30	2	GFCI	28.0	F			2.9	1.2	F	10.0	GFCI	1	20	COLD TOP (SML) Tabla fría (línea de fax)	34
35										2.9	0.8					36
37	QUESADILLA MAKER - PUW (2-#10, #10 G. IN 3/4" C.)	30	2	GFCI	28.0	F	2.9	0.8		F	6.5		3	15	CU-1 (3-#10, #10 G. IN 3/4" C.)	38
39								2.9	0.8							40
41	UPRIGHT REFRIGERATOR - 1 DOOR Refrigerador vertical	20	1	GFCI	10.0	F			1.2	0.2	F	1.6		1	20	WIC - EVAPORATOR	42
43	SPARE	20	1		--	--	0.0	0.0		F	0.2			1	20	WIC - DOOR	44
45	SPARE	20	1		--	--		0.0	0.2	F	1.5	GFCI	1	20	SODA SYSTEM DISPENSER (PUW)	46
47	SPARE	20	1		--	--			0.0	1.5	F	12.5	GFCI	1	20	ICE MAKER (PUW) Maquina para hace hielo	48
49	SPARE	20	1		--	--	0.0	0.0		--	--		1	20	SPARE	50
51	SPARE	20	1		--	--		0.0	0.0	--	--		1	20	SPARE	52
53	SPARE	20	1		--	--			0.0	0.0	--	--	1	20	SPARE	54
							PHASE TOTAL [kVA]:			**18.4 kVA**	**19.0 kVA**	**18.0 kVA**				
							PHASE TOTAL [AMPS]:			**153 A**	**159 A**	**150 A**				

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UNIT 1000
WESTLAKE, FL 33470

Issue Record:
06.13.2024 IN FOR PERMIT
07.11.2024 BID SET
09.26.2024 CONSTRUCTION SET

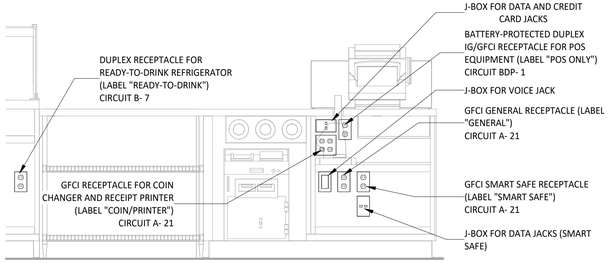
Revisions:
1 06.24.2024 LL REVIEW REVISIONS

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Checked: CJK

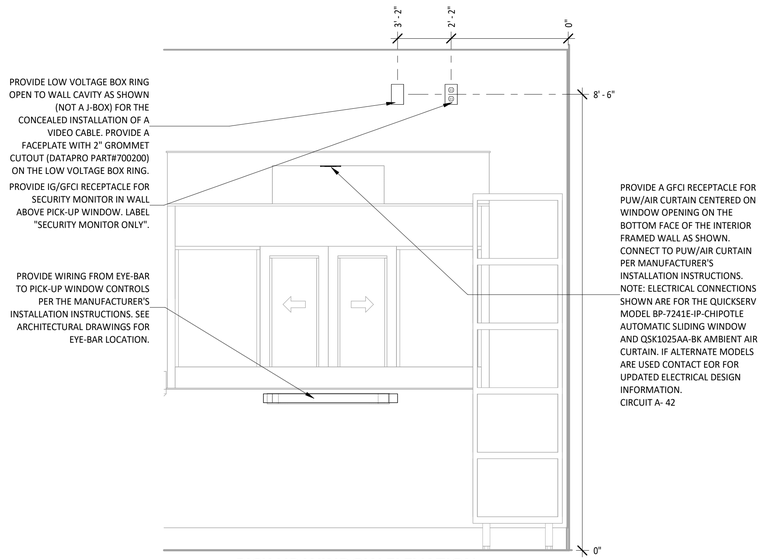
Project No.
2401023

Contents:
ELECTRICAL SCHEDULES

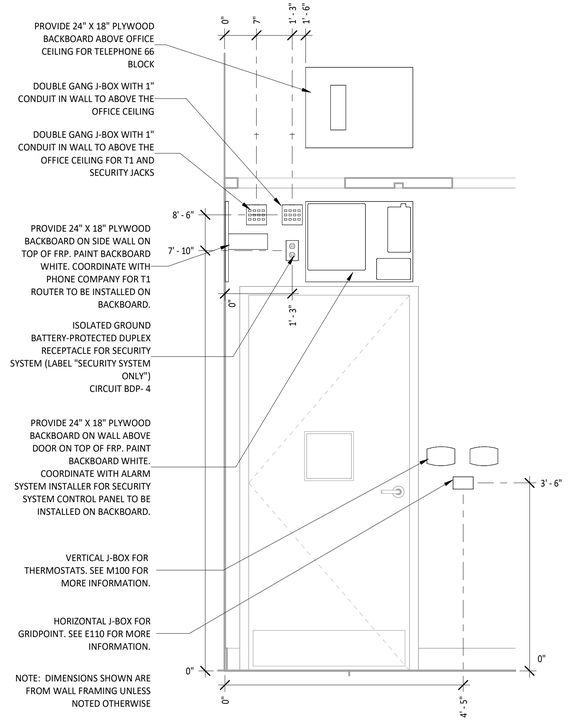
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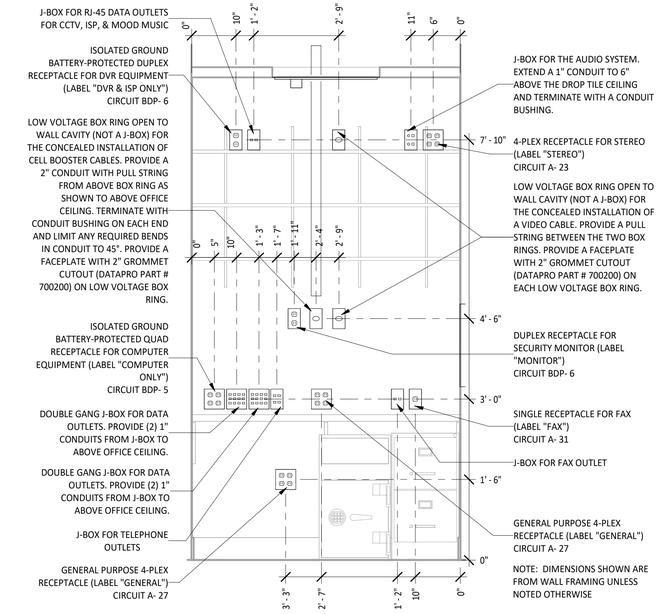
6 E700 **POS COUNTER ELECTRICAL ELEVATION**
3/4" = 1'-0"



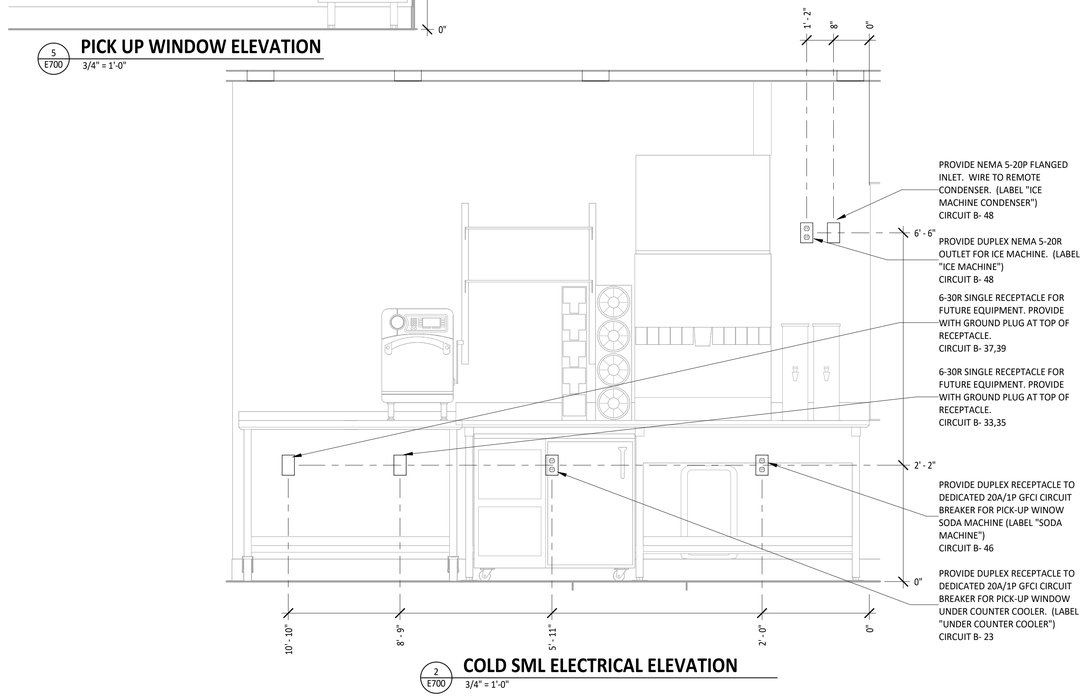
5 E700 **PICK UP WINDOW ELEVATION**
3/4" = 1'-0"



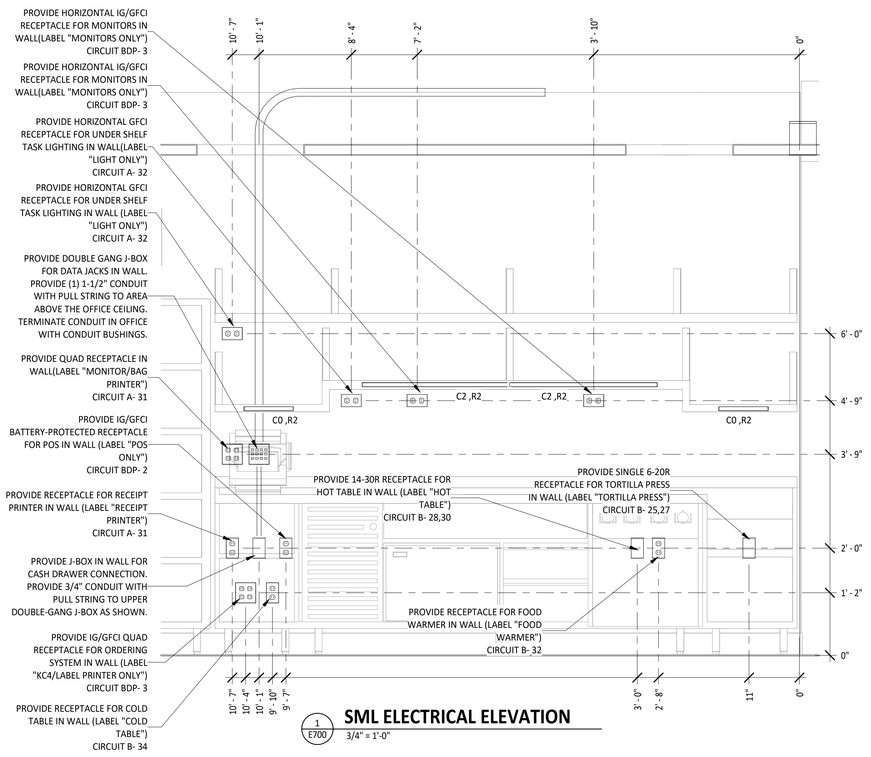
4 E700 **OFFICE DOOR ELECTRICAL ELEVATION**
3/4" = 1'-0"



3 E700 **OFFICE DESK ELECTRICAL ELEVATION**
3/4" = 1'-0"



2 E700 **COLD SML ELECTRICAL ELEVATION**
3/4" = 1'-0"



1 E700 **SML ELECTRICAL ELEVATION**
3/4" = 1'-0"

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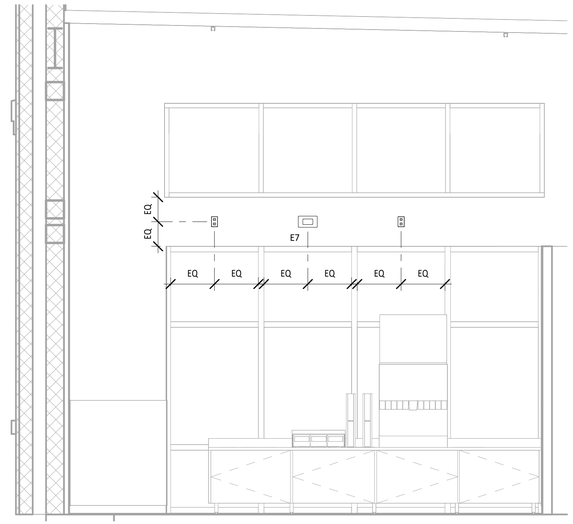
A Revisions:

Drawn: ACA
Checked: CJK

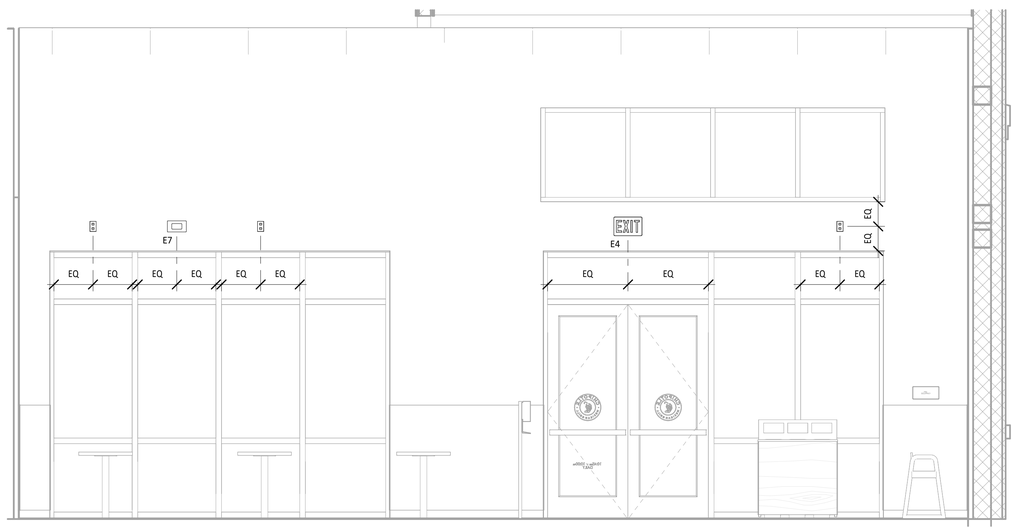
Project No.
2401023

Contents:
ELECTRICAL INTERIOR ELEVATIONS

E700



2 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



1 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"

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Revisions:

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Checked: CJK

Project No.
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Contents:
ELECTRICAL INTERIOR ELEVATIONS

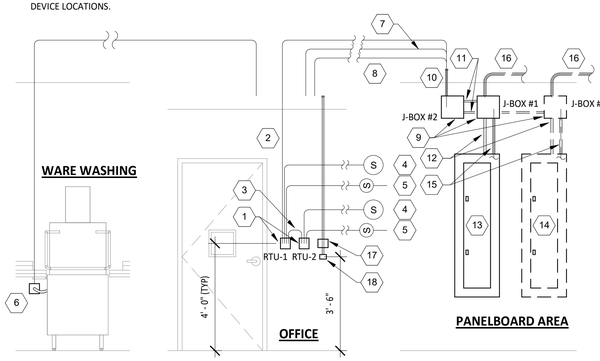
E705

GRIDPOINT DIAGRAM NOTES

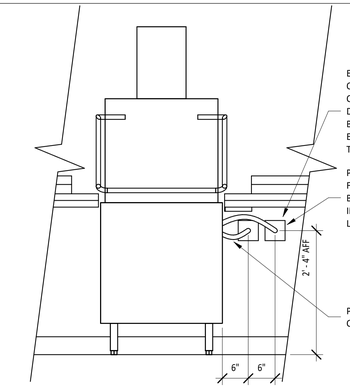
1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL 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.

SEQUENCE OF OPERATIONS

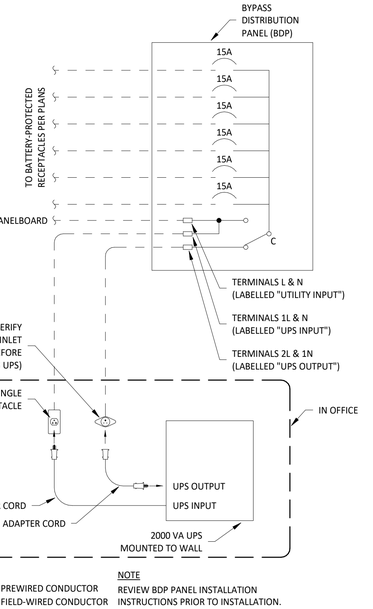
A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) 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 CONDITION. 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, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY 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) RELAYS R5 AND R6 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.



8 E710 GRIDPOINT WIRING DIAGRAM
N.T.S.



7 E710 DISH SANITIZING MACHINE ELECTRICAL DETAIL
N.T.S.



3 E710 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
N.T.S.

CO2 ALARM MANUFACTURER TESTING INSTRUCTIONS

SIMPLE METHOD:
THE HUMAN BODY EXHALES 1 LITER OF CO2 EVERY TIME WE BREATH. THE CO2 FROM YOUR BREATH IS ENOUGH TO MAKE THE DEVICE GO INTO ALARM STATUS.

USE THE INSTRUCTIONS MANUAL (SECTIONS 9.2 TO UNLOCK AND 10.3 TO RESET) TO RESET ALARM2 DOWN TO 5,000 PPM.

AT THE MAIN UNIT (LOW ON THE WALL NEAR THE TANK) BREATH REPEATEDLY INTO THE SENSOR (STAY 6 INCHES AWAY). THE SENSOR IS BEHIND THE FILTER AND HOLE IN THE TOP LEFT CORNER OF THE DEVICE.

10-15 DEEP BREATHS SHOULD BE ENOUGH TO SET THE DEVICE INTO ALARM STATUS.

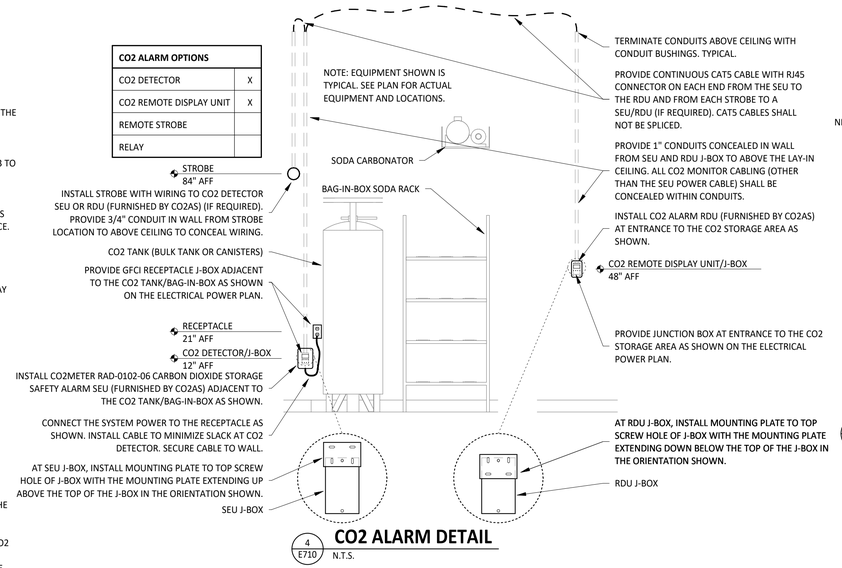
ONCE THE DEVICE GOES OFF YOU WILL NEED TO LET IT WORKS ITS WAY OUT OF ALARM STATUS ON ITS OWN – NO HARD RESET.

COMPLEX METHOD:
PRODUCTS REQUIRED:
- SMALL (5-20 LBS.) CYLINDER OF MIXED GAS: 5% CO2
- BALANCE NITROGEN
- FLOW REGULATOR
- TUBING WITH ID OF 3/16"

PURCHASE THE MIXED GAS REQUIRED FROM YOUR LOCAL GAS DISTRIBUTOR. CONNECT THE FLOW REGULATOR TO THE CYLINDER. CONNECT THE TUBING TO THE OUTLET OF THE FLOW REGULATOR.

PERFORMING THE TEST:
- ENSURE THAT YOUR CO2 SAFETY MONITOR IS INSTALLED AND OPERATING CORRECTLY.
- LOCATE THE SENSOR ON THE DEVICE (IT SITS BEHIND THE HOLE IN THE TOP LEFT CORNER OF THE MAIN UNIT).
- OPEN THE VALVE ON THE GAS CYLINER.
- TURN THE FLOW REGULATOR TO OPEN SO THAT 0.5-1.0 LITERS OF CO2 ARE FLOWING PER MINUTE.
- DIRECT THE HEAD OF THE TUBING AT THE SENSOR LOCATION ON THE MONITOR. LEAVE AT LEAST 1" BETWEEN THE TUBE AND THE SENSOR OPENING TO PREVENT DAMAGE TO THE SENSOR.
- THE DEVICE WILL BEGIN TO DISPLAY INCREASING PPM ALUES OF CO2 EVENTUALLY DRIVING THE DEVICE IN TO ALL THREE ALARM STAGES.
- DISCONTINUE THE FLOW OF GAS ONCE THE TESTING PARAMETERS HAVE BEEN SATISFIED.
- THE DEVICE WILL WORK ITS WAY BACK OUT OF ALARM STATUS ON ITS OWN IN REVERSE ORDER OF ASCECNSION.
- IF THE "FLT" LIGHT IS FLASHING RESET THE UNIT UTILIZING THE DIRECTIOSN IN THE DOCUMENT TITLED "RESETTING YOUR RAD-0102-6 REMOTE CO2 STORAGE SAFETY THREE ALARM MONITOR".

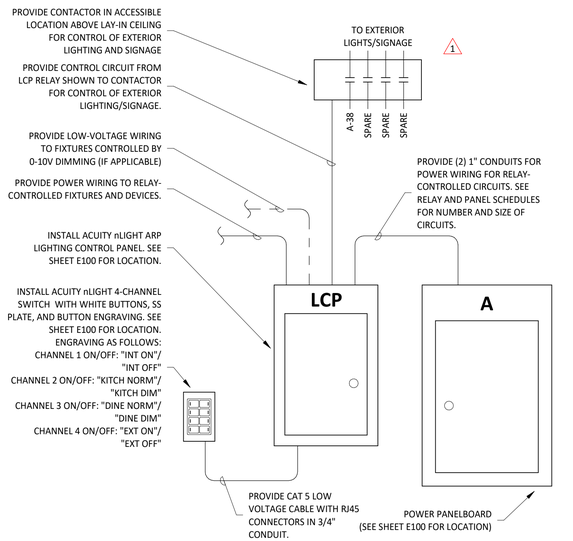
CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



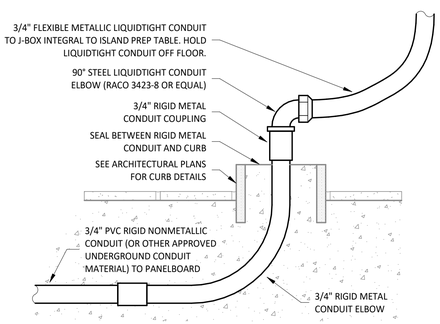
4 E710 CO2 ALARM DETAIL
N.T.S.

AVAILABLE FAULT CURRENT CALCULATIONS

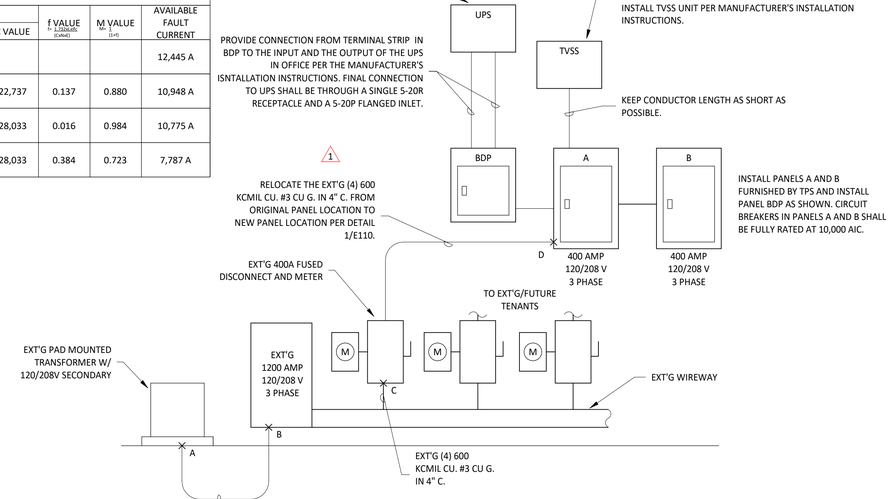
POINT	VOLTAGE	PHASES	CONDUCTOR LENGTH	CONDUCTOR # SETS	CONDUCTOR SIZE	CONDUCTOR CONDUIT TYPE	CONDUCTOR C VALUE	f VALUE f = 1.732xL/nC (C/kcmil)	M VALUE M= 1/(1+f)	AVAILABLE FAULT CURRENT
A	208 V	3								12,445 A
B	208 V	3	120 FT	4	350 KCMIL CU	PVC	22,737	0.137	0.880	10,948 A
C	208 V	3	5 FT	1	600 KCMIL CU	PVC	28,033	0.016	0.984	10,775 A
D	208 V	3	120 FT	1	600 KCMIL CU	PVC	28,033	0.384	0.723	7,787 A



6 E710 INTERIOR LIGHTING CONTROL DIAGRAM
N.T.S.



2 E710 PEDESTAL OUTLET DETAIL
N.T.S.



1 E710 MAIN DISTRIBUTION DIAGRAM
N.T.S.

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09.26.2024	CONSTRUCTION SET

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1	06.24.2024	LL REVIEW REVISIONS

Drawn: JEJ
Checked: CJK

Project No.: 2401023

Contents:
ELECTRICAL DETAILS

E710