Renovation to
Chipotle Mexican Grill

"Kingstowne" Store No. 288

55 Kingstowne Center, Suite ´
Alexandria, VA 22315

CODE DATA

OCCUPANCY GROUP: A-2

CONSTRUCTION TYPE: V-B

FIRE SPRINKLER?: YES

AREA OF WORK: 380 SF

OVERALL AREA: 2,140 SF

CODE AUTHORITIES

BUILDING CODE:	2015 VIRGINIA CONSTRUCTION CODE (IBC) | USBC, PART I
MECHANICAL CODE:	2015 VIRGINIA MECHANICAL CODE (IMC)
PLUMBING CODE:	2015 VIRGINIA PLUMBING CODE (IPC)
ENERGY CODE:	2015 VIRGINIA ENERGY CONSERVATION CODE
FUEL GAS CODE:	2015 VIRGINIA FUEL GAS CODE (IFGC)
ELECTRICAL CODE:	2014 NATIONAL ELECTRIC CODE
FIRE CODE:	VIRGINIA STATEWIDE FIRE PREVENTION CODE (SFPC)
ACCESSIBILITY:	2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1)

SCOPE OF WORK

REMOVAL OF POINT-OF-SALE COUNTER, SEVERAL PIECES OF KITCHEN EQUIPMENT, SNEEZE GUARD, (2) SECTIONS OF SEATING AREA, REMOVAL OF (1) RESTROOM, A TRASH SURROUND AND (2) SMALL SECTIONS OF LOW PARTITION WALLS.

RELOCATION OF SOME EXISTING EQUIPMENT, INSTALLATION OF NEW EQUIPMENT INCLUDING A SECOND MAKE LINE, UTENSIL/BEVERAGE COUNTER, (1) TRASH SURROUND, (1) 4-TOP TABLE AND SEATING AND (1) RESTROOM.

NEW INTEGRATED MOBILE ORDER PICK UP SHELVES.

PROJECT CONTACTS

Architect:
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Overland Park, KS 66212
Contact: Doug Wilson
dwilson@ddg.bz
913-341-2466

MEP Engineer:
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Contact: Caitlin Jones
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303-532-6433

Tenant:
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Contact: Adolph Garcia
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								E3	Electrical Elevations
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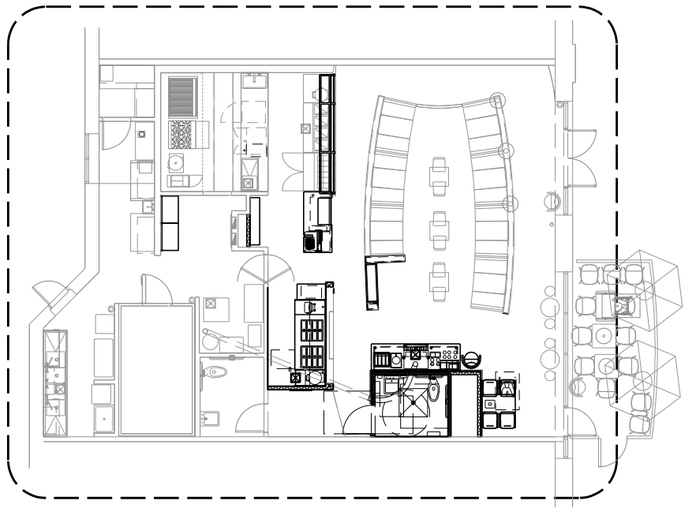
SEE ENLARGED PLAN SHEETS



1 KEY PLAN
1/16" = 1'-0"
0 4' 8' 16'

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Issue Record:

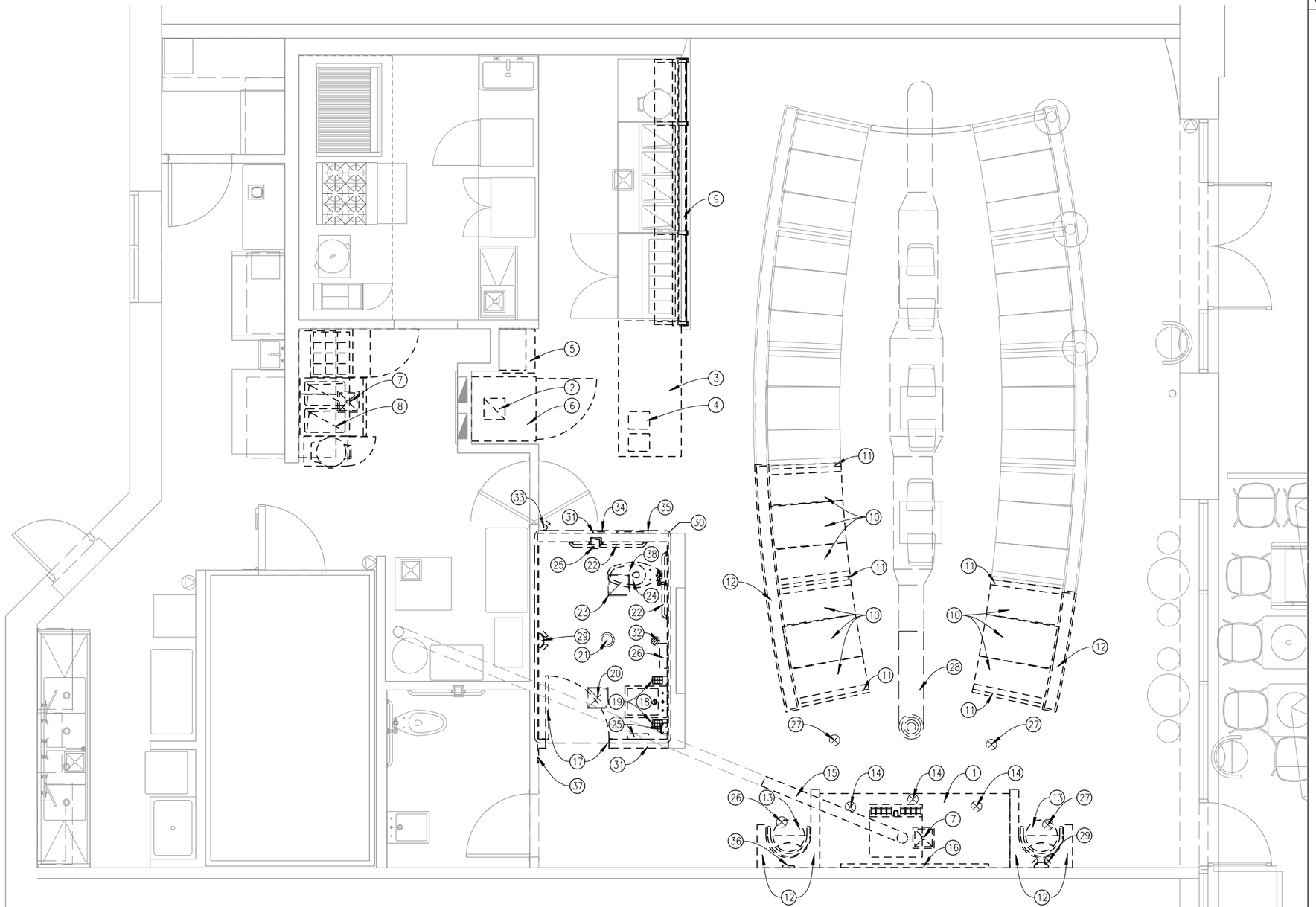
08/31/20	Permit Set

Revisions:

1	09/16/20	QC Revision
2	12/03/20	Client Revision

Cover Sheet

A1



GENERAL NOTES:
1. LOCAL FACILITIES STAFF WILL PICK UP ANY DISCARDED EQUIPMENT THEY WANT TO KEEP. IF ANY DISCARDED EQUIPMENT IS NOT PICKED UP BY THE TIME THE PROJECT IS COMPLETE, THE G.C. SHALL DISPOSE OF IT.
2. REMOVE FLOOR AND/OR WALL FINISHES AS NECESSARY TO ACCOMMODATE NEW WALL, RE: NEW WORK PLAN

1 **DEMOLITION PLAN**
3/16" = 1'-0"
0 1' 3' 5'

Demolition Notes

1. REMOVE UTENSIL COUNTER ASSEMBLY, SAVE SODA/ICED TEA DISPENSER FOR REUSE
2. REMOVE RETURN GRILL ABOVE, RE: MECHANICAL
3. REMOVE POS COUNTER ASSEMBLY
4. REMOVE POS EQUIPMENT, POS DISPLAY, CASH DRAWERS, CUP DISPENSER, ETC., SAVE FOR REUSE
5. REMOVE CHIP TABLE & SHELVES
6. REMOVE REACH-IN BEVERAGE COOLER
7. REMOVE FLOOR SINK, RE: PLUMBING
8. REMOVE SECONDARY MAKE LINE EQUIPMENT & WALL-MOUNTED SHELVING
9. REMOVE SNEEZE GUARD, SERVE LINE LOW WALL TO REMAIN
10. REMOVE TABLE & BOOTH SEATING
11. REMOVE SCREEN PARTITION
12. REMOVE LOW WALL, RE: SHEET A3 & A4
13. REMOVE TRASH SURROUND, SAVE (1) FOR REUSE
14. REMOVE PENDANT LIGHT W/ ACCENT LIGHT ABOVE, SAVE (2) FOR REUSE. RE: ELECTRICAL
15. REMOVE PVC SODA LINE CONDUIT BELOW FLOOR SLAB, RE: NEW WORK PLAN
16. REMOVE WALL GLYPH, SAVE FOR REUSE
17. REMOVE DOOR & FRAME, SAVE FOR REUSE
18. REMOVE HANDSINK & FAUCET, SAVE FOR REUSE, RE: PLUMBING DRAWINGS
19. REMOVE LIGHTING FIXTURES ABOVE, SAVE FOR REUSE
20. REMOVE PERFORATED CEILING DIFFUSER, SAVE FOR REUSE, RE: MECHANICAL
21. REMOVE RECESSED LIGHT SENSOR ABOVE, SAVE FOR REUSE, RE: ELECTRICAL
22. REMOVE GRAB BARS, SAVE FOR REUSE
23. REMOVE PERFORATED CEILING RETURN, SAVE FOR REUSE, RE: MECHANICAL
24. REMOVE FIRE SPRINKLER HEAD ABOVE, SAVE FOR REUSE, RE: ELECTRICAL
25. REMOVE TOILET PAPER DISPENSER & SANITARY NAPKIN RECEPTACLE, SAVE FOR REUSE
26. REMOVE HAND SANITIZER DISPENSER, PAPER TOWEL DISPENSER, WALL-MOUNTED TRASH RECEPTACLE, & WALL-MOUNTED SHELF, SAVE FOR REUSE
27. REMOVE PENDANT LIGHTS ABOVE, SAVE (1) FOR REUSE, RE: ELECTRICAL
28. REMOVE DUCT TO EXTENT INDICATED, SAVE ELBOW & SUPPLY DIFFUSER FOR REUSE, RE: MECHANICAL
29. REMOVE EMERGENCY LIGHT, SAVE FOR REUSE, RE: ELECTRICAL
30. REMOVE FLOOR FINISH, WALL FINISHES & SHEATHING, RE: NEW WORK PLAN
31. REMOVE FULL-HEIGHT WALL
32. REMOVE FLOOR DRAIN, RE: PLUMBING
33. REMOVE SECURITY SYSTEM SENSOR, SAVE FOR REUSE, COORDINATE NEW LOCATION W/ SECURITY COMPANY
34. REMOVE MAXIMUM OCCUPNACY SIGN, SAVE FOR REUSE
35. REMOVE LICENSE FRAME, SAVE FOR REUSE
36. REMOVE TEMPERATURE SENSOR, RE: MECHANICAL
37. REMOVE WALL FINISH AND SHEATHING, FRAMING TO REMAIN
38. REMOVE FLOOR-MOUNTED TOILET, SAVE FOR REUSE, RE: PLUMBING

DEMOLITION PLAN LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED

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08/31/20

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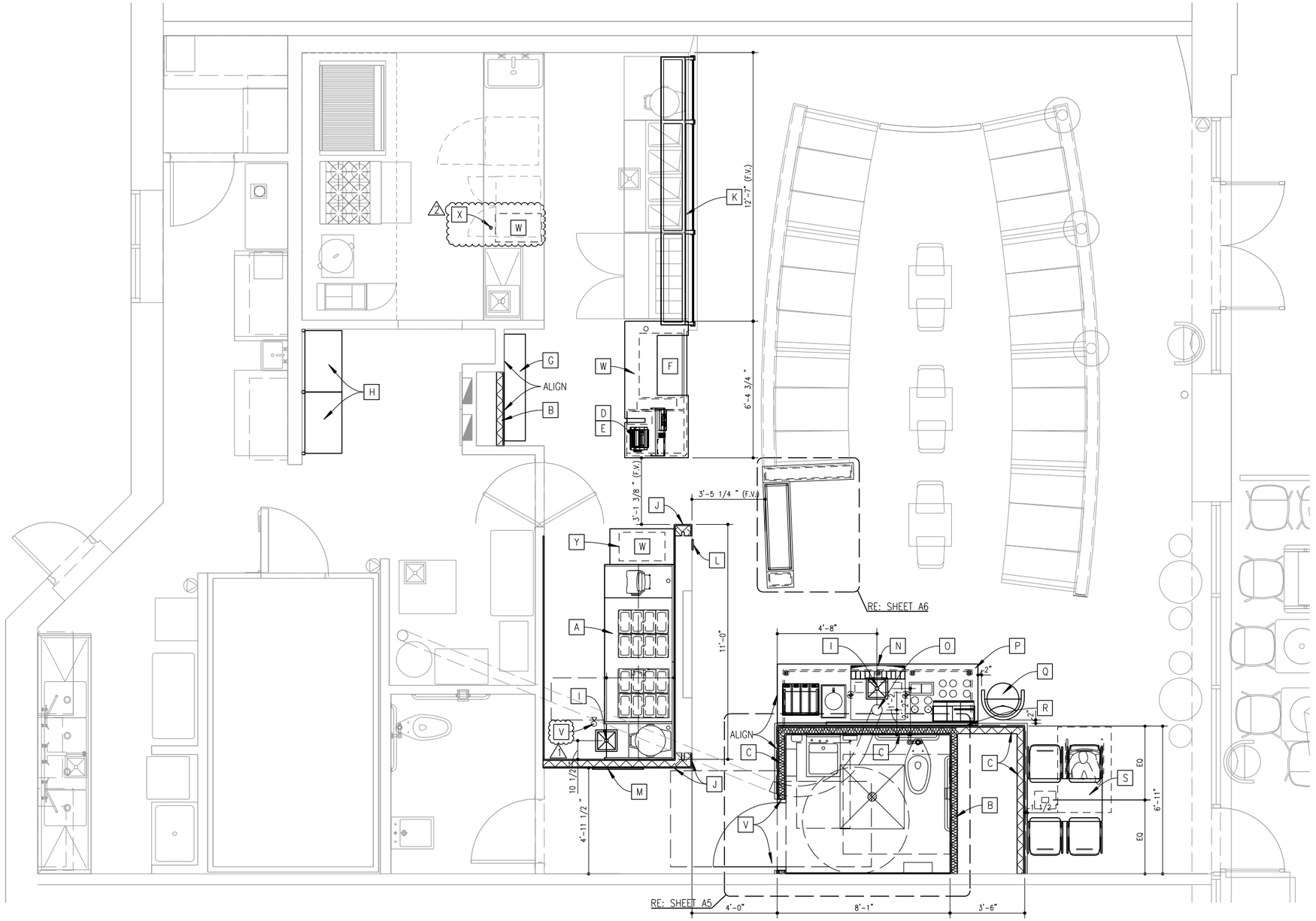
Revisions:

Demolition Plan

A2



GENERAL NOTES:

1. REPAIR AND/OR REPLACE EXISTING WALL AND/OR FLOOR AND/OR CEILING FINISH WHERE DAMAGE IS VISIBLE AFTER NEW WORK IS COMPLETE, MATCH EXISTING.
2. SEE MECHANICAL, ELECTRICAL, AND/OR PLUMBING SHEETS FOR ADDITIONAL INFORMATION.
3. EQUIPMENT INSTALL DOCUMENTS ARE LOCATED IN ONE OF THE WELLS OF THE SML.
4. WALL SHELF HEIGHTS ARE SHOWN ON THE SHELF INSTALL GUIDE. DO NOT REFERENCE THE ELECTRICAL SKETCH FOR SHELF INSTALL HEIGHTS.
5. PROVIDE SOLID WOOD BLOCKING IN THE WALL BEHIND ALL NEWLY-INSTALLED WALL-MOUNTED EQUIPMENT.
6. NOTE: CONTRACTOR TO VERIFY THAT THERE ARE ENOUGH SPACES IN EXISTING ELECTRICAL PANELS FOR ALL NEW EQUIPMENT PRIOR TO STARTING WORK.
7. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL OR EDGE OF EQUIPMENT U.N.O.
8. IF APPLICABLE, MODIFY FIRE SPRINKLER HEAD LOCATIONS AS NECESSARY TO ACCOMMODATE NEW WORK. GC IS RESPONSIBLE FOR OBTAINING ANY REQUIRED APPROVALS AND/OR PERMITS.

REMOTE CONDENSER NOTES:

1. LOCATE CONDENSER ON ROOF SUCH THAT IT DOES NOT CONFLICT WITH ANY EXISTING EQUIPMENT, IS AT LEAST 10 FEET AWAY FROM ANY GREASE EXHAUST FAN OR PARAPET/ROOF EDGE, IS PLACED OVER THE PREMISES, AND IS AT LEAST 5' AWAY FROM THE CENTER OF ANY DEMISING WALL BELOW.
2. INSTALL CONDENSER ON MANUFACTURER-SUPPLIED X-BRACED RACK ATTACHED TO RUBBER SUPPORTS SET ON ROOF.
3. RUBBER SUPPORTS SHALL BE INSTALLED PERPENDICULAR TO ROOF STRUCTURE MEMBERS AND EXTEND BETWEEN AT LEAST (2) STRUCTURE MEMBERS.
4. RUBBER SUPPORTS SHALL BE "DURA-BLOK" B-LINE SERIES SUPPORTS W/ GALVANIZED METAL CHANNEL. CONFIGURATION AND CHANNEL SIZE SHALL BE DETERMINED BASED ON ACTUAL CONDITIONS AND EQUIPMENT SIZE/WEIGHT.
5. ROOF PENETRATION:
   A.THE REFRIGERANT LINES AND POWER SHALL BE HOUSED IN PVC, SIZED TO ACCOMMODATE THE CONTENTS.
   B.CREATE A WATER-TIGHT CONDITON WHERE THE PVC PENETRATES THE ROOF MEMBRANE THAT MAINTAINS THE EXISTING ROOF WARRANTY. USE LANDLORD'S ROOFER IF NECESSARY.
   C.CREATE A "GOOSE NECK" AT THE TOP OF THE PVC TO PREVENT WATER FROM ENTERING THE PVC.
   D.INSTALL WIRE MESH AT THE PVC OPENING TO PREVENT BIRDS AND OTHER VERMON FROM ENTERING.
   E.SPARE REFRIGERANT LINES SHOULD BE COILED UP AND LEFT IN THE SPACE ABOVE THE FINISHED CEILING AND BELOW THE ROOF STRUCTURE.
6. USE LANDLORD'S APPROVED ROOFING CONTRACTOR TO PERFORM ALL ROOF WORK. MAINTAIN EXISTING ROOF WARRANTY.

1 **NEW WORK PLAN**
3/16" = 1'-0"
0 1' 3' 5'

New Work Notes

- A 9'-1 1/2" LONG DML 1.4 (RIGHT) SYSTEM ON LEGS W/ 2-TEIR WALL-MOUNTED SHELVING SYSTEM W/ CONCEALED LIGHTING; MOUNT BOTTOM OF LOWEST PORTION OF LOWER SHELF @ 54 1/2" AFF, MOUNT BOTTOM OF UPPER SHELF AT 74 1/2" AFF
- B INTERIOR, NON-LOAD-BEARING PARTITION - EXTEND FROM GROUND TO 6" ABOVE CEILING: 3 5/8" METAL STUDS @ 16" O.C. W/ 3 5/8" METAL STUD BRACING @ 6'-0" O.C. MAX SECURED TO TOP OF WALL & BOTTOM OF ROOF DECK, INSTALL 2 1/2" HIGH SLIP TRACK AT TOP OF BRACING IF INSTALLED VERTICALLY, INSTALL SOUND BATT INSULATION WHERE INDICATED ON PLAN
- C INTERIOR, NON-LOAD-BEARING PARTITION - EXTEND FROM GROUND TO BOTTOM OF ROOF DECK: 3 5/8" METAL STUDS @ 16" O.C. W/ 2 1/2" HIGH SLIP TRACK AT TOP OF WALL, INSTALL SOUND BATT INSULATION WHERE INDICATED ON PLAN
- D POS COUNTER UNIT TO ACCOMMODATE INTEGRAL READY TO DRINK COOLER - NO SMART SAFE, MATCH EXISTING POS COUNTER FINISHES
- E REINSTALL EXISTING POS EQUIPMENT, POS DISPLAY, CASH DRAWERS, CUP DISPENSER, ETC.
- F READY TO DRINK COOLER, STRUCTURAL CONCEPTS/OASIS CO3324R-UC
- G 60" X 4-TIER STAINLESS STEEL SHELVING; INSTALL AT 24" AFF, 40" AFF, 55" AFF, & 72" AFF, CENTER ON WALL
- H WALL-MOUNTED DRY STORAGE RACKS, 21"X36"X85", AMCO CHPDS185, BOTTOM OF STANDARD AT 12" AFF
- I FLOOR SINK, RE: PLUMBING
- J INTERIOR, NON-LOAD-BEARING PARTITION - EXTEND FROM GROUND TO 6" ABOVE CEILING: 3 5/8" METAL STUDS @ 16" O.C. W/ 3 5/8" METAL STUD BRACING @ 6'-0" O.C. MAX SECURED TO TOP OF WALL & BOTTOM OF ROOF DECK, INSTALL 2 1/2" HIGH SLIP TRACK AT TOP OF BRACING IF INSTALLED VERTICALLY
- K NEW SNEEZE GUARD, RE: SHEET A9
- L REINSTALL MAXIMUM OCCUPANCY SIGN
- M REINSTALL LICENSE FRAME
- N ICE MACHINE, HOSHIZAKI KMD-MRH (REMOTE-COOLED), INSTALL ON TOP OF EXISTING DRINK DISPENSER (COCA-COLA TO PROVIDE ADAPTER), SEE REMOTE CONDENSER NOTES ON THIS SHEET
- O EXTEND UNDER GROUND CONDUIT & SODA LINES, RE: PLUMBING
- P 112.75" UTENSIL COUNTER TO ACCOMMODATE TRACTOR BEVERAGE, REINSTALL SODA DISPENSERS/ICED TEA DISPENSERS
- Q REINSTALL TRASH SURROUND
- R REINSTALL WALL GYLPH, CENTER ON WALL
- S NEW ADA-COMPLIANT 4-TOP TABLE, MATCH EXISTING STYLE
- T REINSTALL DOOR FRAME, DOOR HARDWARE & SIGNAGE, REVERSE LOCKSET & REINSTALL SIGN ON OPPOSITE SIDE OF DOOR
- U PROVIDE 12"WX36"L METRO "ERECTA SHELF" W/ 29"H POSTS, INSTALL UNDERNEATH POS COUNTER, BEHIND READY TO DRINK COOLER
- V REINSTALL CCTV CAMERA ABOVE, FINAL LOCATION TBD BY ENVYSION CCTV INSTALLER
- W FUTURE EQUIPMENT, RE: ELECTRICAL
- X CUT HOLE IN STAINLESS STEEL TABLE FOR FUTURE EQUIPMENT POWER CORD, INSTALL RUBBER GROMMET (Z)
- Y 20"X36" STAINLESS STEEL TABLE, MATCH EXISTING

NEW WORK PLAN LEGEND

EXISTING TO REMAIN

NEW WORK

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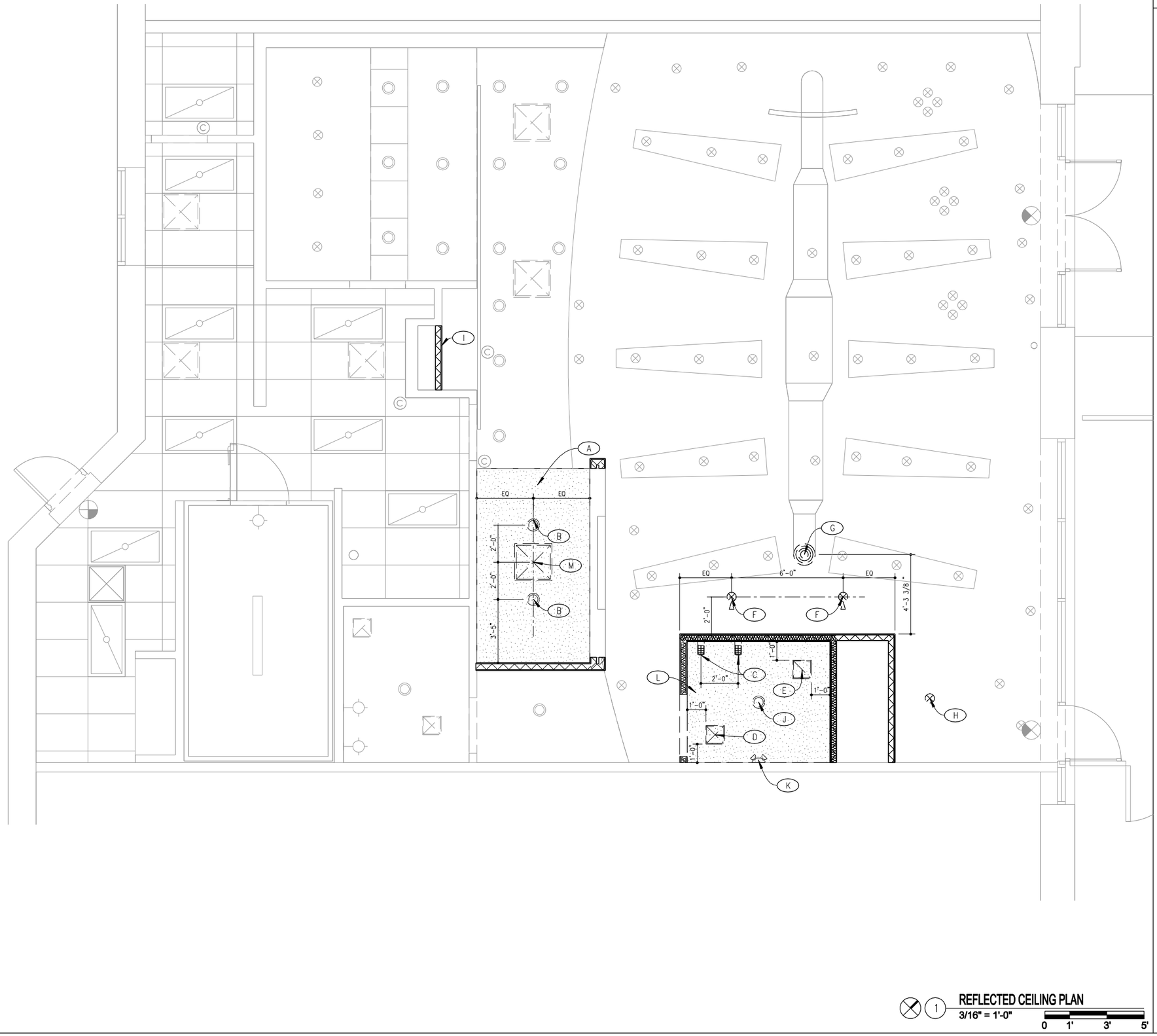
Revisions:

1	09/16/20	QC Revision
2	12/03/20	Client Revision

New Work Plan

A3



1 REFLECTED CEILING PLAN
3/16" = 1'-0"
0 1' 3' 5'

CEILING PLAN NOTES

- (A) GYPSUM BOARD CEILING, MATCH HEIGHT & FINISH OF ADJACENT CEILING
- (B) RECESSED LIGHT, MATCH EXISTING, RE: ELECTRICAL DRAWINGS
- (C) REINSTALL WALL-MOUNTED LIGHTS, CENTER ABOVE SINK, @ 6'-8" AFF, RE: A5 & ELECTRICAL
- (D) REINSTALL PERFORATED CEILING DIFFUSER, RE: MECHANICAL
- (E) REINSTALL PERFORATED CEILING RETURN, RE: MECHANICAL
- (F) REINSTALL PENDANT LIGHTS W/ ACCENT LIGHT ABOVE
- (G) REINSTALL ELBOW & SUPPLY DIFFUSER, RE: MECHANICAL
- (H) REINSTALL PENDANT LIGHT, CENTER ABOVE ADA-COMPLIANT 4-TOP TABLE
- (I) REPAIR EXISTING LAY-IN CEILING ABOVE WHERE NEW WALL FRAMING PENETRATES CEILING TO BRACE TO ROOF STRUCTURE
- (J) REINSTALL RECESSED LIGHT FIXTURE, CENTER IN CEILING
- (K) REINSTALL EMERGENCY LIGHT, RE: ELECTRICAL
- (L) GYPSUM BOARD CEILING @ 9'-0" AFF, MATCH EXISTING
- (M) NEW CEILING MOUNTED SUPPLY DIFFUSER, RE: MECHANICAL

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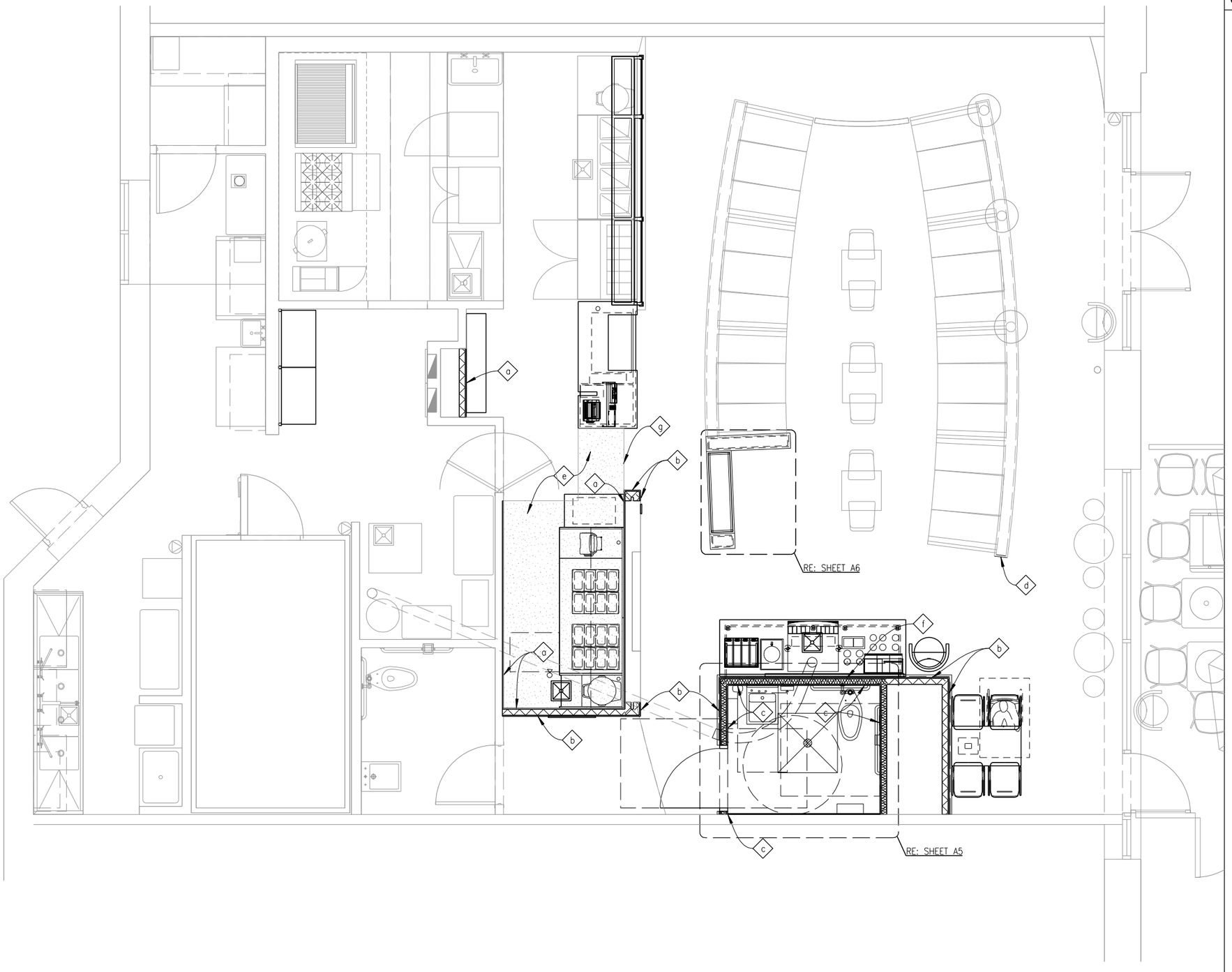
Revisions:

Reflected Ceiling Plan

A3.1



SHEATHING & FINISH PLAN
3/16" = 1'-0"
0 1' 3' 5'

SHEATHING & FINISH NOTES

a. 5/8" DENSSHIELD GYPSUM SHEATHING ABOVE 18" A.F.F., 5/8" CEMENT BOARD BELOW 18" A.F.F. WITH CERAMIC TILE WALL FINISH AND NO BASE, MATCH EXISTING

b. 5/8" GYPSUM BOARD, PREPPED & PAINTED, WITH WAINSCOT (PLYWOOD TRIM CAP, 5/8" SHEATHING, CORRUGATED GALVANIZED METAL PANELS, & FLAT GALVANIZED COVED BASE), MATCH EXISTING

c. 5/8" GYPSUM BOARD, PREPPED & PAINTED, WITH WAINSCOT (PLYWOOD TRIM CAP, 22 GA. FLAT GALVANIZED STEEL SHEET ADHERED TO 5/8" PLYWOOD SHEATHING, FLAT GALVANIZED COVED BASE – SEALED TO FLOOR), MATCH EXISTING

d. CAP END OF LOW WALL WITH GALVANIZED STEEL CAP, FINISH CUT END OF PLYWOOD TRIM CAP, MATCH EXISTING

e. EPOXY FLOOR FINISH

f. INSTALL 18 GA. FLAT STAINLESS STEEL IN LIEU OF CORRUGATED GALVANIZED METAL BEHIND UTENSIL COUNTER

g. FLOOR FINISH TRANSITION

GENERAL NOTES:
1. REPAIR ALL FINISHES TO MATCH EXISTING WHERE NEW CONSTRUCTION/FIXTURES ARE ADDED, EXISTING CONSTRUCTION/FIXTURES ARE REMOVED, OR DAMAGE RESULTING FROM CONSTRUCTION WORK OCCURS.

SHEATHING & FINISH PLAN LEGEND

EXISTING TO REMAIN

NEW WORK

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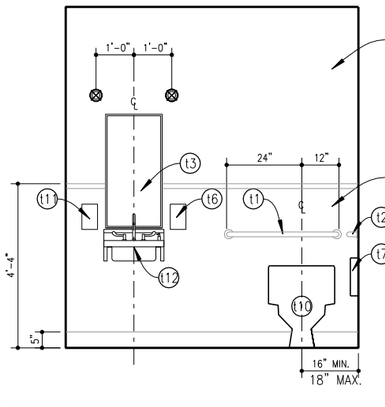
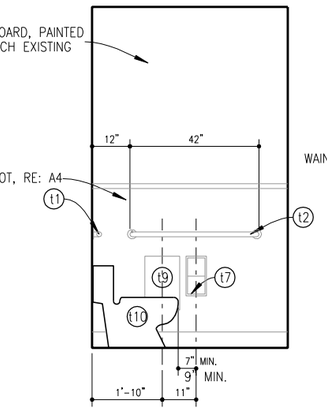
Sheathing & Finish Plan

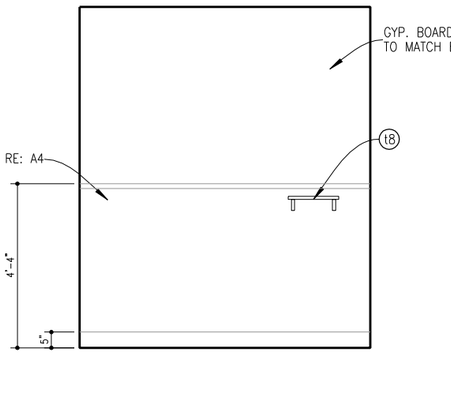
A4



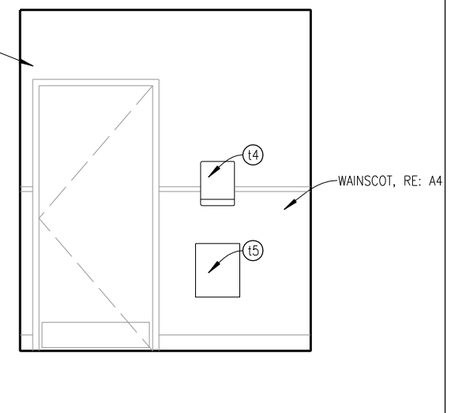
5 TYPICAL RESTROOM ELEVATION
1/4" = 1'-0"
0 1' 2' 4'



4 TYPICAL RESTROOM ELEVATION
1/4" = 1'-0"
0 1' 2' 4'

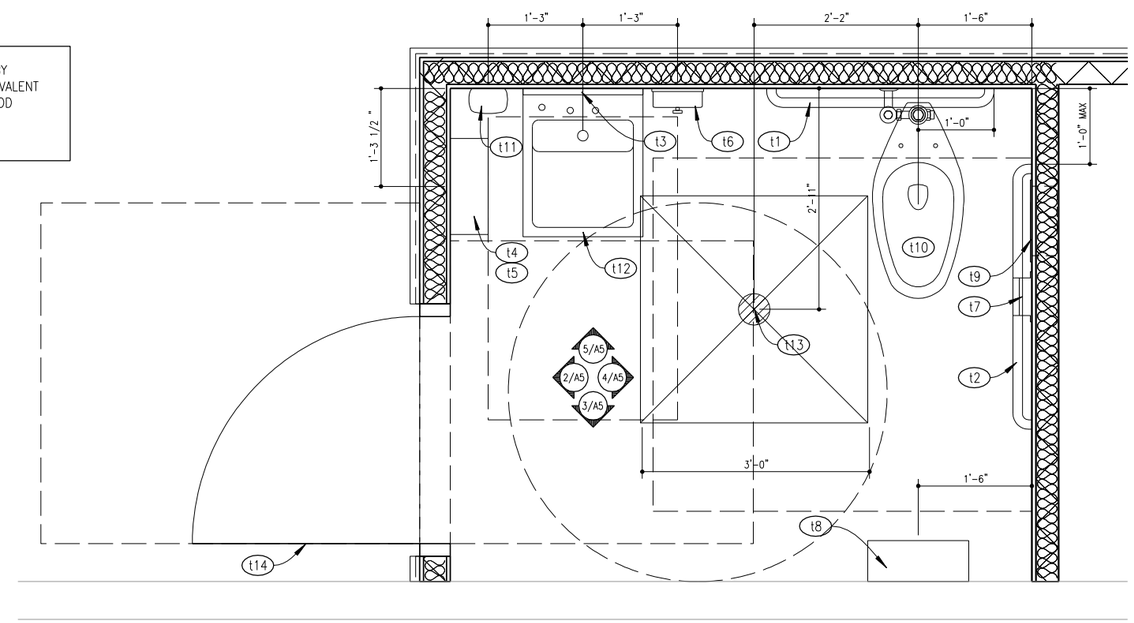


3 TYPICAL RESTROOM ELEVATION
1/4" = 1'-0"
0 1' 2' 4'



2 TYPICAL RESTROOM ELEVATION
1/4" = 1'-0"
0 1' 2' 4'

ALL NEW ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.



1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"
0 6" 1' 2'

Restroom Accessories

- t1 REINSTALL 36" HORIZONTAL GRAB BAR, MOUNT 36" AFF TO TOP OF GRASPING SURFACE
- t2 REINSTALL 42" HORIZONTAL GRAB BAR, MOUNT 36" AFF TO TOP OF GRASPING SURFACE
- t3 REINSTALL STAINLESS STEEL ANGLE FRAME MIRROR, MOUNT BOTTOM EDGE OF REFLECTING SURFACE AT 40" AFF
- t4 REINSTALL SURFACE MOUNTED PAPER TOWEL DISPENSER, MOUNT 40" AFF TO BOTTOM OF UNIT
- t5 REINSTALL SURFACE MOUNTED WASTE RECEPTACLE, MOUNT 32" AFF TO TOP OF UNIT
- t6 REINSTALL SURFACE MOUNTED SOAP DISPENSER, MOUNT 40" AFF TO WHERE PRODUCT IS DISPENSED
- t7 REINSTALL RECESSED MOUNTED EXTRA TOILET TISSUE DISPENSER, MOUNT 29" AFF TO TOP OF UNIT
- t8 REINSTALL STAINLESS STEEL UTILITY SHELF, MOUNT 46" AFF TO TOP OF SHELF
- t9 REINSTALL RECESSED FEMININE NAPKIN DISPOSAL RECEPTACLE, TOP OF ROUGH OPENING AT 29" AFF
- t10 REINSTALL FLOOR-MOUNTED TOILET, RE: PLUMBING
- t11 REINSTALL HAND SANITIZER DISPENSER, MOUNT 40" AFF TO WHERE PRODUCT IS DISPENSED
- t12 REINSTALL HANDSINK & FAUCET, MOUNT BOTTOM OF FRONT EDGE OF SINK AT 29" AFF, RE: PLUMBING
- t13 NEW FLOOR DRAIN, SLOPE FLOOR TO DRAIN @ 1:48 MAX. RE: PLUMBING
- t14 RELOCATE RESTROOM SIGN TO PUBLIC SIDE OF DOOR

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Lic No. 0401 014645
ARCHITECT
08/31/20

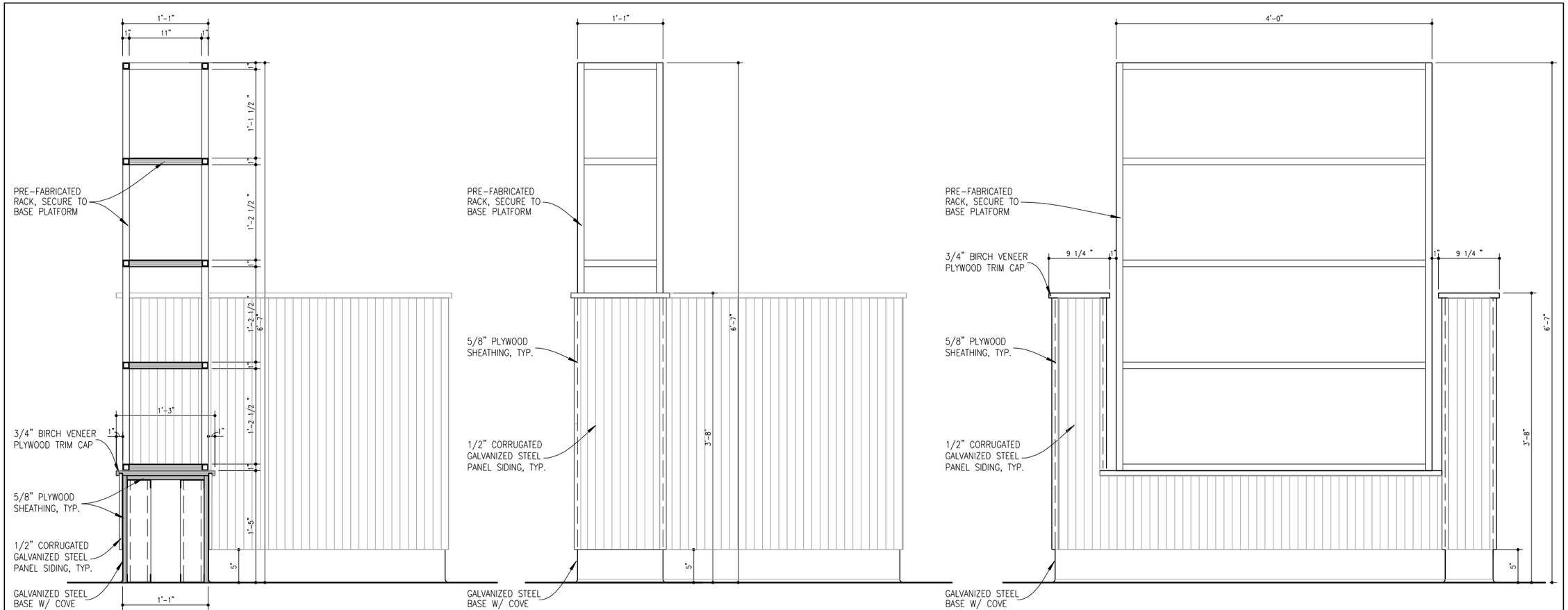
Renovation to
Chipotle Mexican Grill
"Kingstowne" Store No. 288
5955 Kingstowne Center, Suite 160
Alexandria, VA 22315

Issue Record:
08/31/20 Permit Set

Revisions:

Enlarged Restroom Plan & Elevations

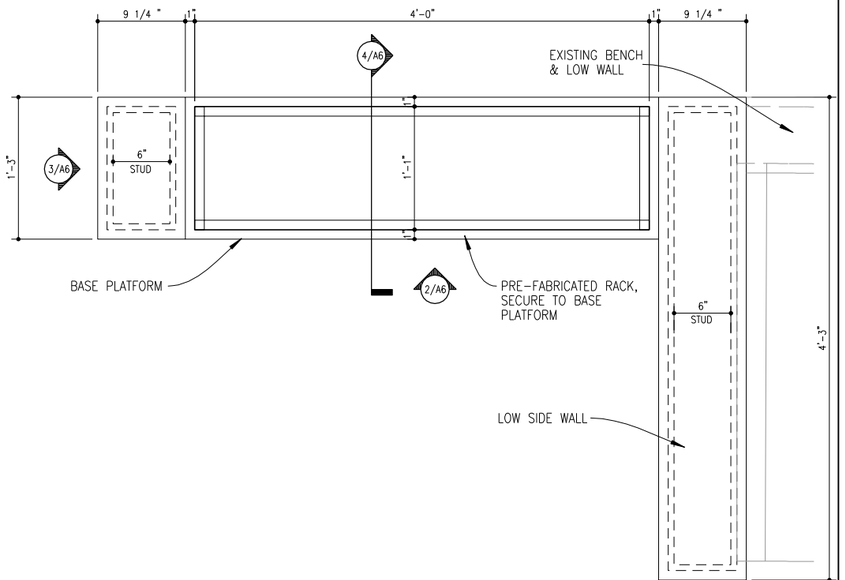
A5



4 INTEGRATED MOPUS SECTION
3/4" = 1'-0"
0 3" 6" 12"

3 INTEGRATED MOPUS ELEVATION
3/4" = 1'-0"
0 3" 6" 12"

2 INTEGRATED MOPUS FRONT ELEVATION
3/4" = 1'-0"
0 3" 6" 12"



1 ENLARGED INTEGRATED MOPUS PLAN
3/4" = 1'-0"
0 3" 6" 12"

ARCHITECT:
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8826 Santa Fe Drive
Suite 304
Overland Park, KS 66212
(913) 341-2466

CLIENT:
Chipotle Mexican Grill, Inc.
PO Box 182566
Columbus, OH 43218-2566
(614) 318-2482

COMMONWEALTH OF VIRGINIA
JOHN M. DUNGAN
Lic No. 0401 014645
ARCHITECT
08/31/20

Renovation to
Chipotle Mexican Grill
"Kingstowne" Store No. 288
5955 Kingstowne Center, Suite 160
Alexandria, VA 22315

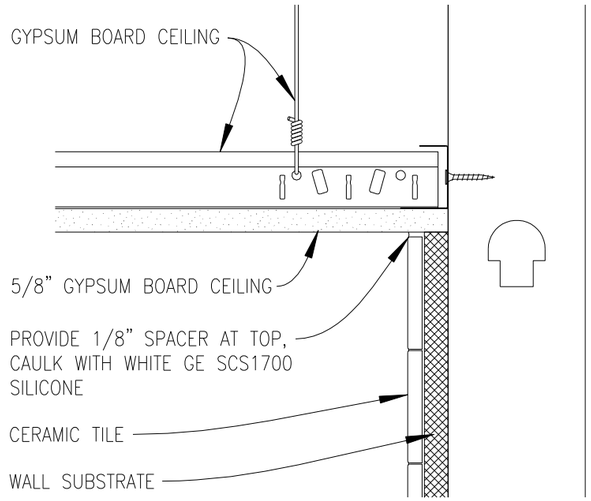
Issue Record:

08/31/20	Permit Set

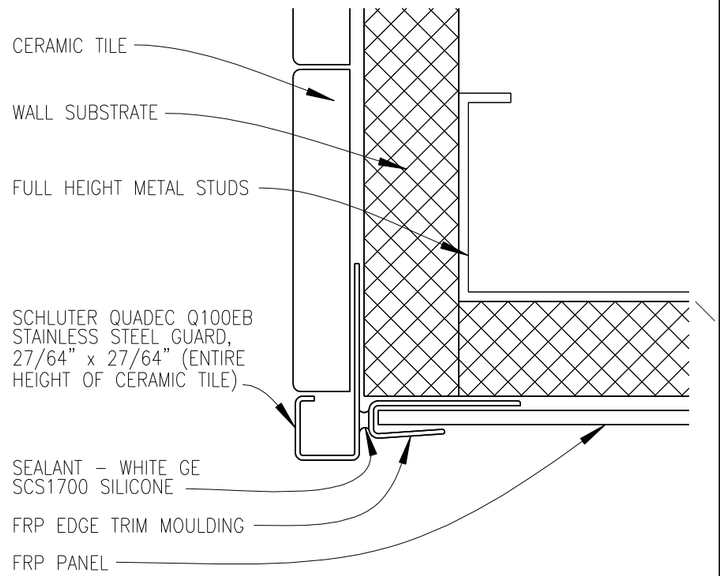
Revisions:

Integrated MOPUS Details

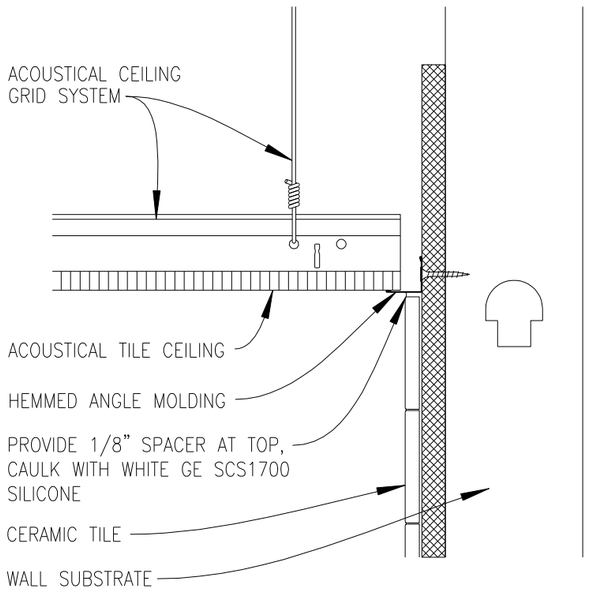
A6



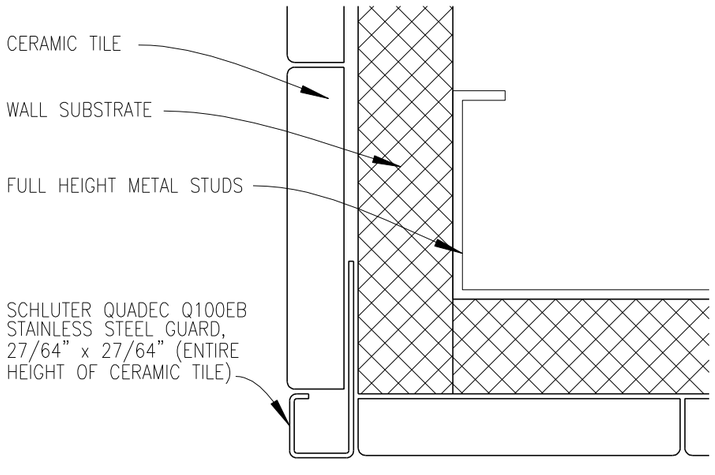
4 **Tile Detail @ Gypsum Board Ceiling**
3" = 1'-0"



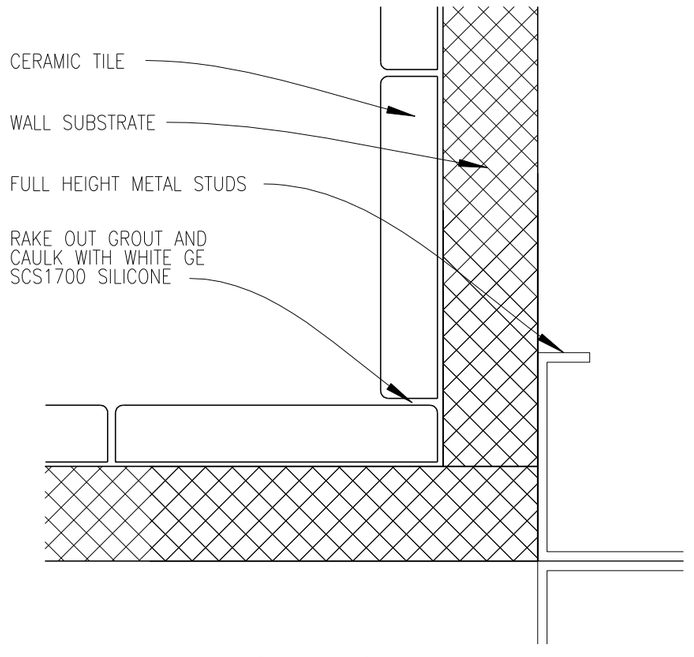
2 **Wall Tile @ FRP**
FULL SCALE



5 **Tile Detail @ Suspended Ceiling**
3" = 1'-0"



3 **Wall Tile @ Outside Corner**
FULL SCALE



1 **Wall Tile @ Inside Corner**
FULL SCALE

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COMMONWEALTH OF VIRGINIA
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Renovation to
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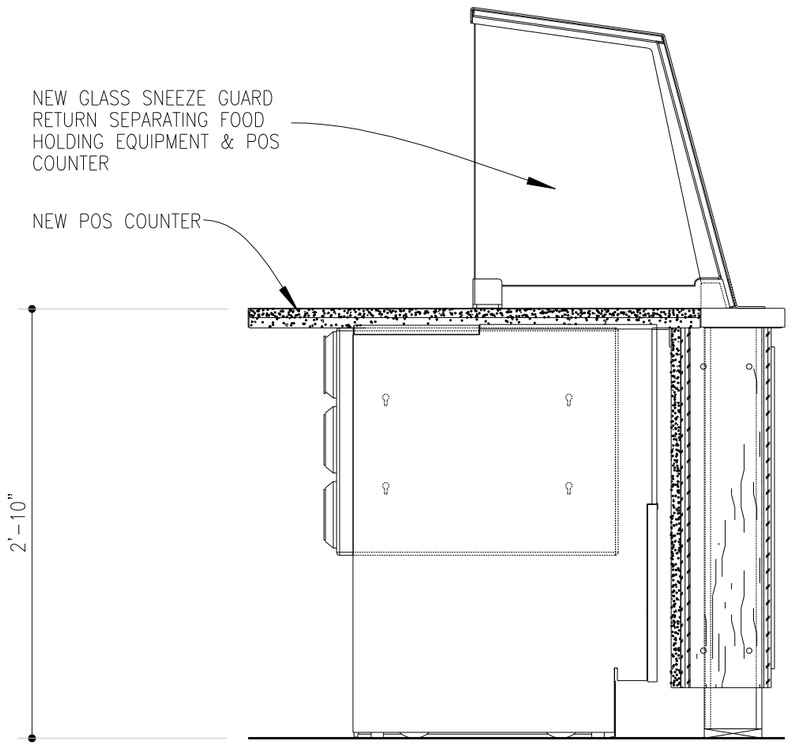
Issue Record:
08/31/20 Permit Set

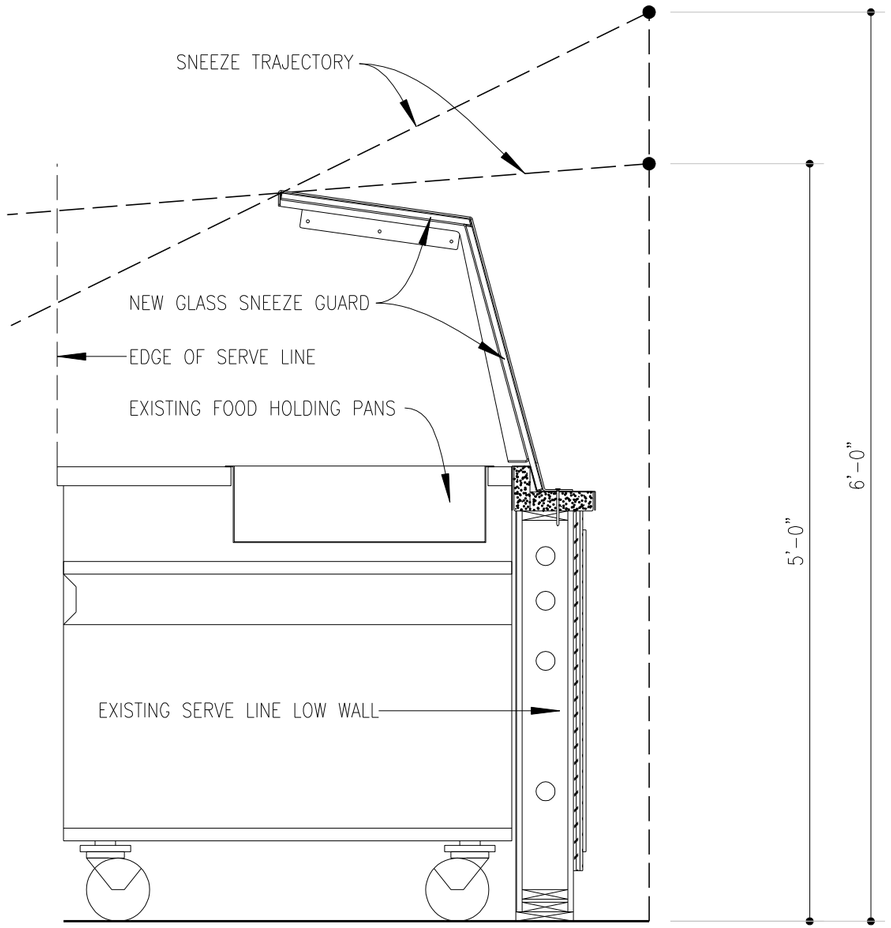
Revisions:

Ceramic Tile Details

A7



2 SNEEZE GUARD RETURN
1" = 1'-0"
0 3" 6" 1'-0"



1 SERVE LINE / SNEEZE GUARD SECTION
1" = 1'-0"
0 3" 6" 1'-0"

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Revisions:

Serve Line &
Sneeze Guard Details

A9

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 GENERAL NOTES

A. GENERAL NOTES APPLY TO HVAC SHEETS.
B. PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED BY APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OD 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 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 MANUFACTURE'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 OTHERWISE NOTED RECTAGULAR DUCT ELBOWS GREATER THAN 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, PROTECTION, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
L. PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.
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 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 M3 FOR EQUIPMENT INFORMATION
AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
GRILL, REGISTER, OR DIFFUSER TAG: TAG, NECK SIZE, AIRFLOW [CFM]

HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN
	EXPOSED RETURN	RECTANGULAR
	EXPOSED GEN. EXHAUST	RECTANGULAR
	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 1 HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP PR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING APPROVAL).

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
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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4635 Trueman Blvd., Ste 250
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(614) 751-9610

CLIENT:
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Columbus, OH 43218-2566
(614) 318-2482

RENOVATION TO
CHIPOTLE MEXICAN GRILL
STORE NO.: 0288
KINGSTOWNE
5955 KINGSTOWNE CENTER,
SUITE 160
ALEXANDRIA, VA 22315

Issue Record:
08.31.2020 Permit Issue

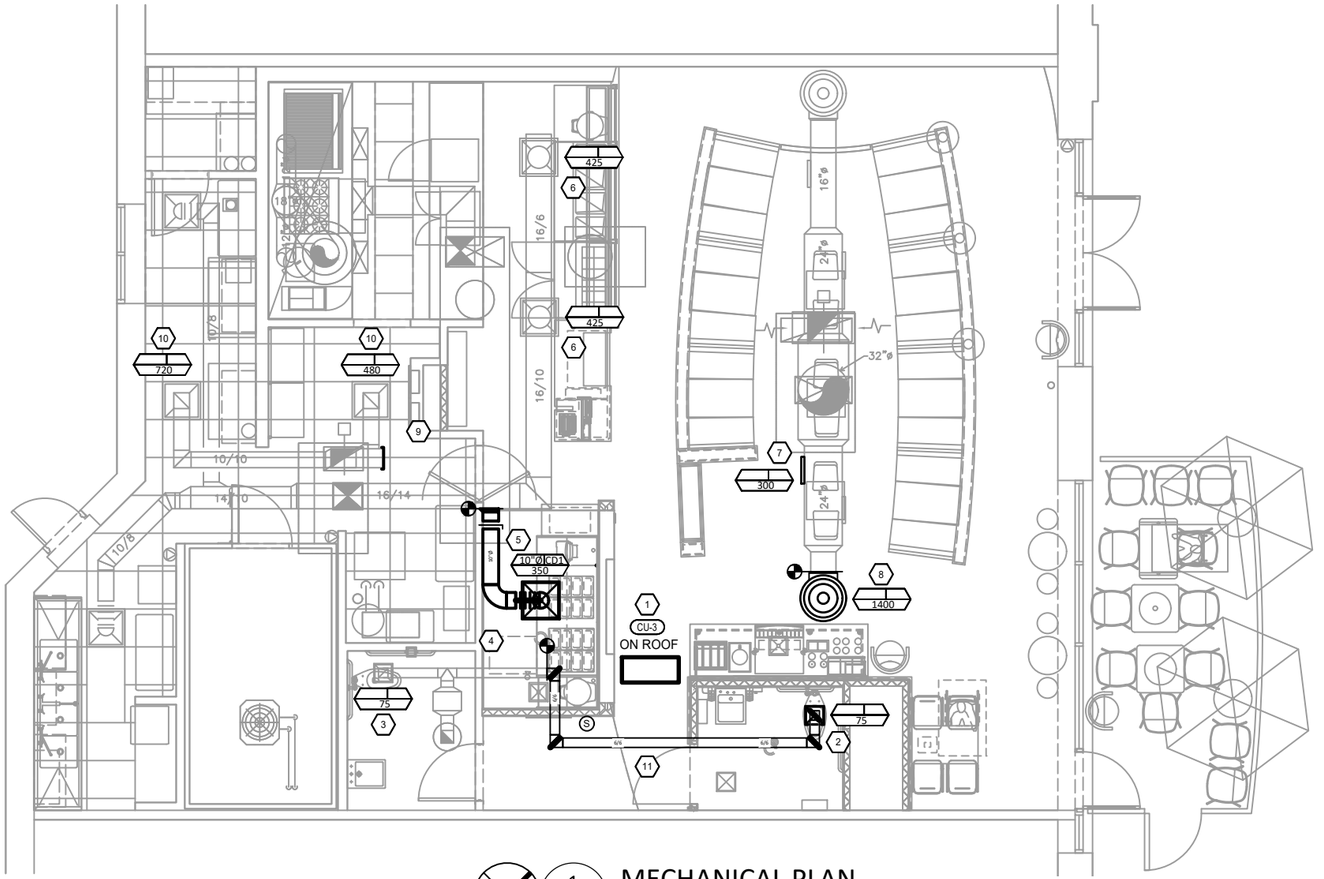
Revisions:
1 12.03.2020 Client Revision

Contents:
MECHANICAL SPECIFICATIONS

M1

MECHANICAL PLAN NOTES

1. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF. COORDINATE LOCATION WITH EXISTING EQUIPMENT. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, AND LOW AMBIENT CONTROLS. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET TIGHT TO THE ROOF DECK AND DEMISING WALL. WHERE REFRIGERANT PIPING IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A PVC CONDUIT.
2. RELOCATE EXISTING RESTROOM EXHAUST DIFFUSER TO NEW LOCATION SHOWN. PROVIDE ALL NECESSARY DUCT TO CONNECT TO EXISTING AS SHOWN. SET RELOCATED EXHAUST DIFFUSER TO 75CFM.
3. SET EXISTING RESTROOM EXHAUST DIFFUSER TO 75 CFM.
4. REMOVE BOTH EXISTING RESTROOM SUPPLY DIFFUSERS AND ALL EXISTING DUCTS SUPPLYING THEM BACK TO MAIN DUCT LINE AS SHOWN. THE 200CFM REMOVED FROM RESTROOMS TO BE PROVIDED TO NEW DML DIFFUSER (CD1_.
5. PROVIDE NEW 10Ø DUCT TO NEW CEILING MOUNTED DML AREA SUPPLY DIFFUSER (CD1) AS SHOWN. CONNECT TO IN SAME LOCATION AS REMOVED RESTROOM SUPPLY DUCT. SET NEW DIFFUSER TO PROVIDE 350CFM (200 CFM FROM REMOVED RESTROOM SUPPLY AND 75CFM FROM EACH SERVE LINE DIFFUSER).
6. SET EACH EXISTING SERVE LINE DIFFUSER FROM 500CFM TO 425CFM. THE REMAINING 150CFM IS TO BE PROVIDED TO NEW DML DIFFUSER (CD1).
7. RELOCATE EXISTING 17/6 DIFFUSER TO NEW LOCATION SHOWN. MAINTAIN EXISTING AIRFLOW OF 300CFM.
8. REMOVE SECTION OF 16Ø ROUND DUCT TO RELOCATE EXISTING ROUND DIFFUSER TO NEW LOCATION SHOWN. RECONNECT DIFFUSER AND MAINTAIN AIRFLOW OF 1400 CFM.
9. REMOVE REACH IN FRIDGE RETURN DIFFUSER AND ITS RETURN DUCT AND CAP DUCT END AS SHOWN. 140CFM FROM THIS REMOVED RETURN TO BE SPIT EQUALLY BETWEEN THE TWO OTHER EXISTING DIFFUSERS.
10. INCREASE RETURN AIRFLOW BY 70CFM TO BALANCE RETURN AIR FROM REMOVED DIFFUSER ABOVE REACH IN FRIDGE.
11. HOLD EXPOSED DUCT TIGHT TO BOTTOM OF ROOF DECK AND PAINT TO MATCH DECKING.



1 / M2 MECHANICAL PLAN
1/8" = 1'-0"

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RENOVATION TO
CHIPOTLE MEXICAN GRILL

STORE NO.: 0288

KINGSTOWNE
5955 KINGSTOWNE CENTER,
SUITE 160
ALEXANDRIA, VA 22315

Issue Record:

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Revisions:

12.03.2020	Client Revision

Contents:

MECHANICAL PLAN

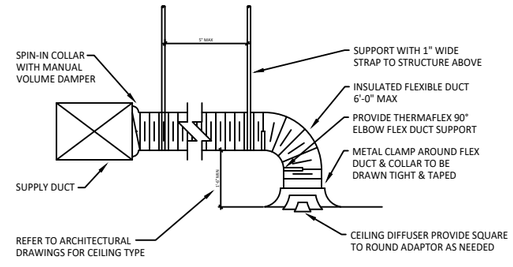
M2

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	NOTES
CD1	PERFORATED CEILING DIFFUSER	24" x 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD

CONDENSER SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	# OF COMPRESSORS / CIRCUITS	REFRIGERANT	REFRIGERANT CHARGE	ELECTRICAL (V/P/H)
CU-3	ICE MAKER - REMOTE CONDENSER *FURNISHED WITH ICE MAKER*	KES	GC	0/1	R-404A	11LBS, 7.4 OZ	120/1/60



NOTE:
1. METHOD OF INSTALLATION FOR AIR TIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1 / M3 DUCT AND DIFFUSER CONNECTION DETAIL
NTS

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Contents:
MECHANICAL SCHEDULES & DETAILS

M3

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.
B. PVC Plastic, Water Pipe: ASTM D 1785, Schedule 80, plain ends.
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. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
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 CISPI's "Case Iron Soil Pipe and Fittings Handbook".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. Cast iron, DWV Pipe: ASTM A 74 Hub and Spigot Pipe Extra Heavy Class.
2.2 FITTINGS
A. Cast iron, DWV Pipe Fittings: ASTM C 564 Gaskets.
PART 3 - EXECUTION
3.1 PIPE APPLICATIONS
A. For waste and vent piping applications use Hub and Spigot Cast Iron pipe and fittings with non-toxic rubber gaskets.
3.2 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drainand building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.3 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15198 - NATURAL GAS PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.
B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: AGA certified, bronze-body, plug type with bronze plug, for 2-psig 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

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RENOVATION TO
CHIPOTLE MEXICAN GRILL

STORE NO.: 0288

KINGSTOWNE
5955 KINGSTOWNE CENTER,
SUITE 160
ALEXANDRIA, VA 22315

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Contents:

PLUMBING SPECIFICATIONS

P1

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
	ABOVE GROUND, CONCEALED	PVC PALSTIC DWV PIPE FITTINGS
SANITARY WASTE & VENT PIPE	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	CAST IRON DWV PIPE AND FITTINGS

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(E)	EXISTING
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOD DRAIN
FS	FLOOR SINK
GCO	GROUND 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
TRS	TENANT'S RAILING SUPPLIER
TVS	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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 OTHERWISE NOTED. 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 EAT 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 DETAILS.
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 CONSTRUCTION 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 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 INCH PER FOOT UNLESS NOTED OTHERWISE.

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
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WM — WATER METER
- GM — GAS METER
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P2 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

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RENOVATION TO
CHIPOTLE MEXICAN GRILL

STORE NO.: 0288

KINGSTOWNE
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SUITE 160
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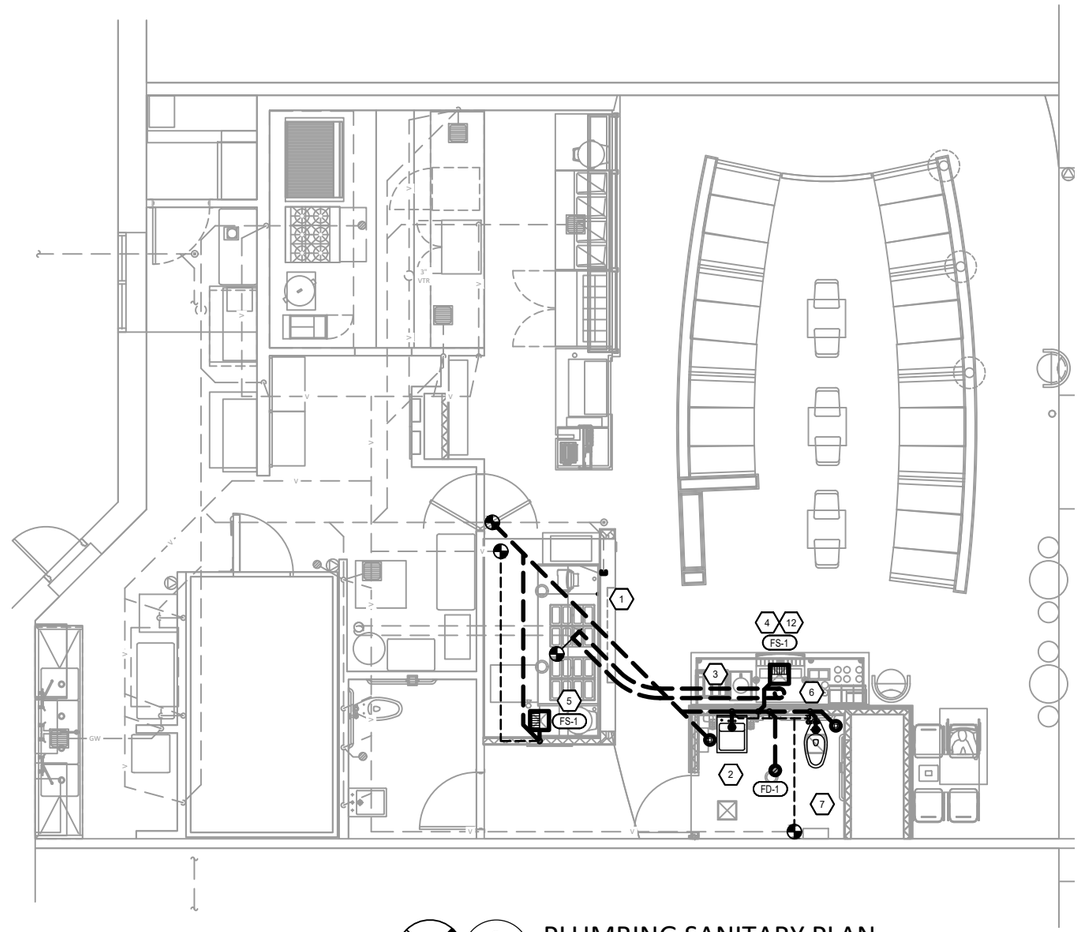
Contents:

PLUMBING SPECIFICATIONS

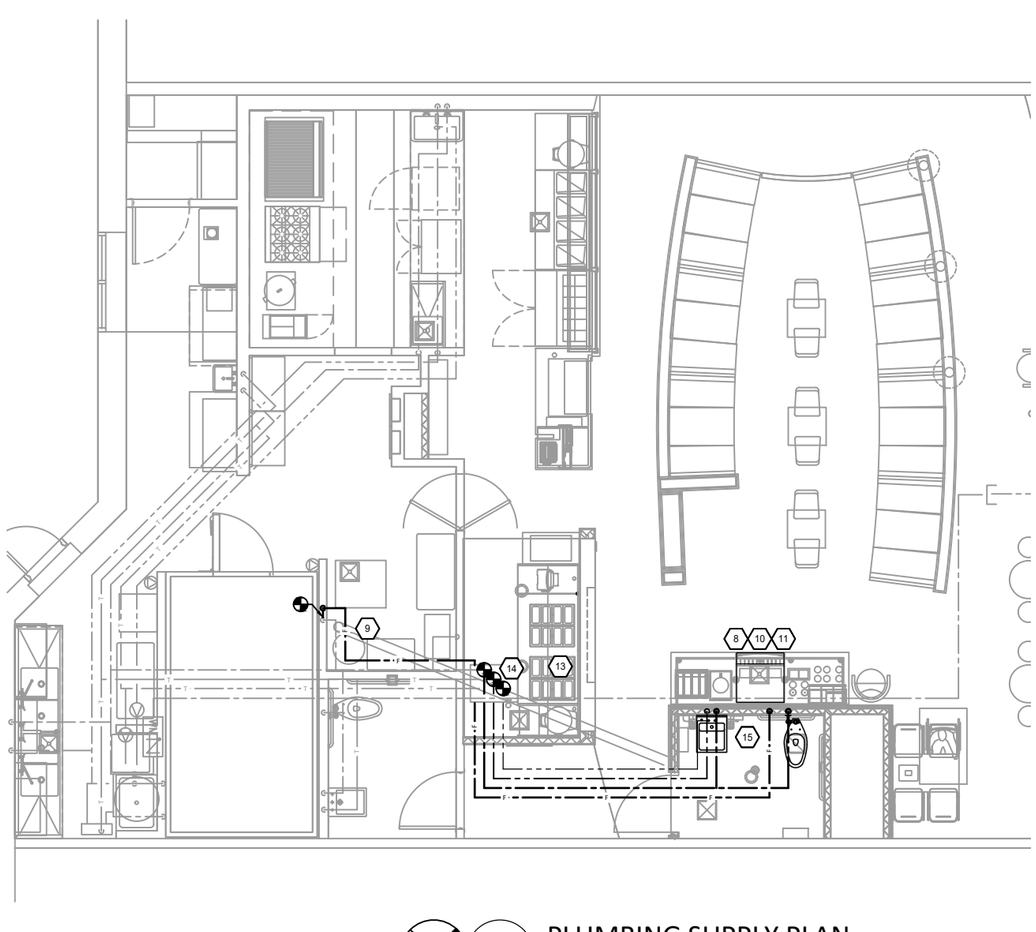
P1.1

PLUMBING PLAN NOTES

1. REMOVE EXISTING RESTROOM HAND SINK AND WATER CLOSET IN THIS AREA AND SET ASIDE FOR REUSE. REMOVE EXISTING FLOOR DRAIN AND ANY UNUSED SANITARY AND VENT PIPE IN THIS AREA. CAP EXISTING SANITARY LINE ON LOCATION SHOWN. FILL AND REPAIR FLOOR AS NEEDED.
2. REINSTALL EXISTING RESTROOM HAND SINK AND RESTROOM WATER CLOSET TO NEW LOCATIONS SHOWN IN NEW RESTROOM. PROVIDE NEW RESTROOM FLOOR DRAIN IN NEW LOCATION SHOWN.
3. ROUTE NEW 6" SCHEDULE 40 PVC SODA CONDUIT FROM NEW BEVERAGE COUNTER TO NEAREST LOCATION OF EXISTING SODA CONDUIT AND CONNECT TO EXISTING. FIELD VERIFY LOCATION OF EXISTING SODA CONDUIT PRIOR TO CONNECTION. PROVIDE LARGE RADIUS BENDS AS NEEDED TO ALLOW SODA LINES TO PASS THOUGH WITHOUT BINDING.
4. PROVIDE NEW BEVERAGE COUNTER FLOOR SINK (FS-1) IN LOCATION SHOWN. ROUTE ALL DRAIN LINES FROM NEW ICE MAKER AND BEVERAGE EQUIPMENT TO NEW FLOOR SINK AND DRAIN THROUGH AIR GAP.
5. PROVIDE NEW DML FLOOR SINK (FS-1) IN LOCATION SHOWN. INSTALL 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO FLOOR SINK. DRAIN THROUGH AN AIR GAP.
6. PROVIDE NEW VENT LINES TO NEW SANITARY FIXTURES. ROUTE VENT LINES UP IN WALL AND ABOVE CEILING TO CONNECT TO THE EXISTING SANITARY VENT. FIELD VERIFY LOCATION.
7. REMOVE EXISTING FLOOR SINK IN THIS LOCATION. CAP ANY SANITARY AND VENT LINES THAT WILL NO LONGER BE USED AND REPAIR FLOOR.
8. 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.
9. PROVIDE NEW 1/2" FILTERED COLD WATER LINE FROM EXISTING ICE MAKER FILTERED WATER LINE AS SHOWN.
10. CONNECT EXISTING FILTERED WATER LINE TO NEW BEVERAGE DISPENSER ICE MAKER PER MANUFACTURES INSTRUCTIONS.
11. PROVIDE NEW ICE MAKER TO MOUNT ON EXISTING BEVERAGE DISPENSER.
12. PROVIDE DRAIN LINES FROM NEW ICE MAKER TO EXISTING FLOOR SINK AND DRAIN THROUGH AIR GAP. CONNECT DRAIN LINE TO ICE MAKER PER MANUFACTURES INSTRUCTIONS.
13. REMOVE EXISTING WATER LINES FROM EXISTING RESTROOM BACK TO LOCATION SHOWN AND PREP FOR CONNECTION.
14. CONNECT NEW SUPPLY LINES TO EXISTING AS SHOWN AND ROUTE TO NEW RESTROOM LOCATION AS SHOWN,
15. CONNECT NEW SUPPLY LINES TO RELOCATED RESTROOM HAND SINK AND WATER CLOSET AS PREVIOUSLY CONNECTED.



2 / P2 PLUMBING SANITARY PLAN
1/8" = 1'-0"



1 / P2 PLUMBING SUPPLY PLAN
1/8" = 1'-0"

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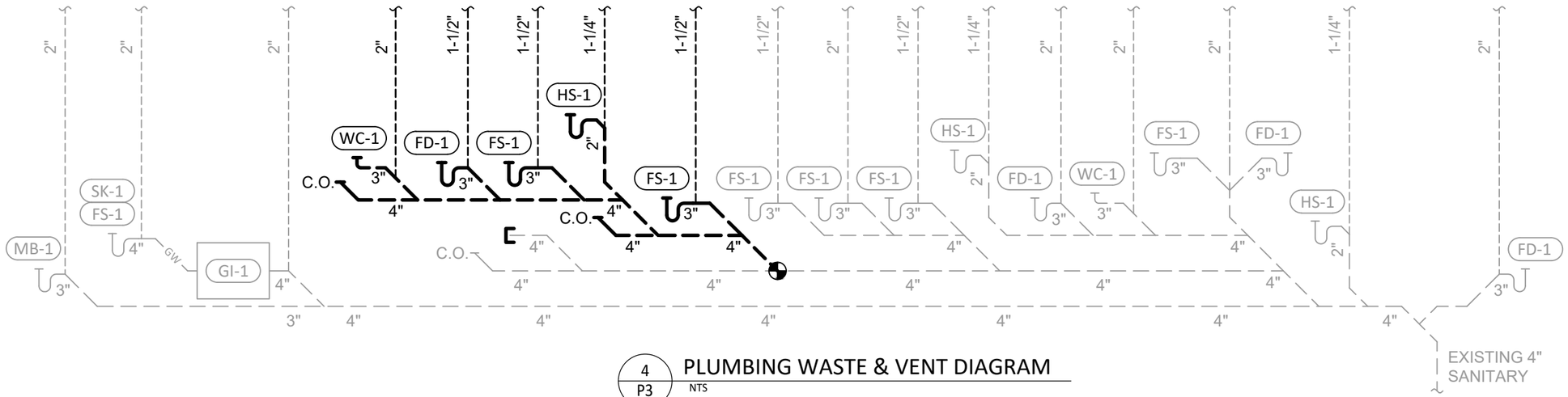
PLUMBING PLAN,
SCHEDULE, & DETAILS

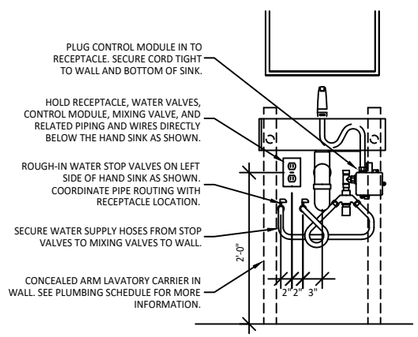
P2

PLUMBING FIXTURE SCHEDULE

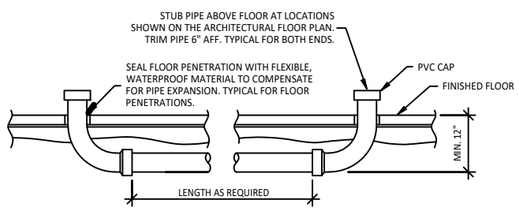
TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			FIXTURE UNITS (EACH)		FIXTURE UNITS (TOTAL)	
								CW	HW	WASTE	WATER	SANITARY	WATER	SANITARY
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	1	0	0	2"	0	2	0.0	2.0
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	2	0	0	3"	0	5	0.0	10.0
							3						0.0	12.0



4 / P3 PLUMBING WASTE & VENT DIAGRAM
NTS

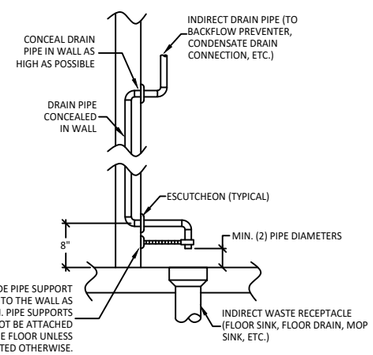


3 / P3 RESTROOM HAND SINK DETAIL
NTS



PROVIDE SIX INCH SCHEDULE 40 PVC ELECTRICAL CONDUIT AND FITTINGS WITH SOLVENT-WELDED JOINTS. USE MINIMUM QUANTITY OF FITTINGS. PROVIDE LONG SWEEP ELBOWS AT BOTH ENDS, WITH MINIMUM 16 INCH RADIUS. AVOID ELBOWS IN HORIZONTAL RUN. SEAL ENDS OF CONDUIT WITH FOAM AFTER SYRUP LINE IS INSTALLED IN CONDUIT. INSTALL PVC CAP WITH HOLE FOR SODA LINES ON EACH END OF THE CONDUIT. SEAL HOLE IN PVC CAP AROUND SODA BUNDLE.

2 / P3 SODA CONDUIT DETAIL
NTS



1 / P3 DRAIN DETAIL
NTS

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RENOVATION TO
CHIPOTLE MEXICAN GRILL

STORE NO.: 0288

KINGSTOWNE
5955 KINGSTOWNE CENTER,
SUITE 160
ALEXANDRIA, VA 22315

Issue Record:

08.31.2020	Permit Issue

Revisions:

12.03.2020	Client Revision

Contents:

PLUMBING SCHEDULES & DETAILS

P3

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

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SPECIFICATIONS

E1

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
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 OF 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 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	WEATHER PROOF
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
TRS	TENANT'S RAILING SUPPLIER
TVS	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

ELECTRICAL GENERAL NOTES

A. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C. WIRING SHALL BE (2)#12, #12G 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 SWITCHES.
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 CONSTRUCTION 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. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

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
- J — JUNCTION BOX
- ELECTRIC PANELBOARD
- GENERAL PURPOSE 1-POLE SWITCH
- OC — OCCUPANCY 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: PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING

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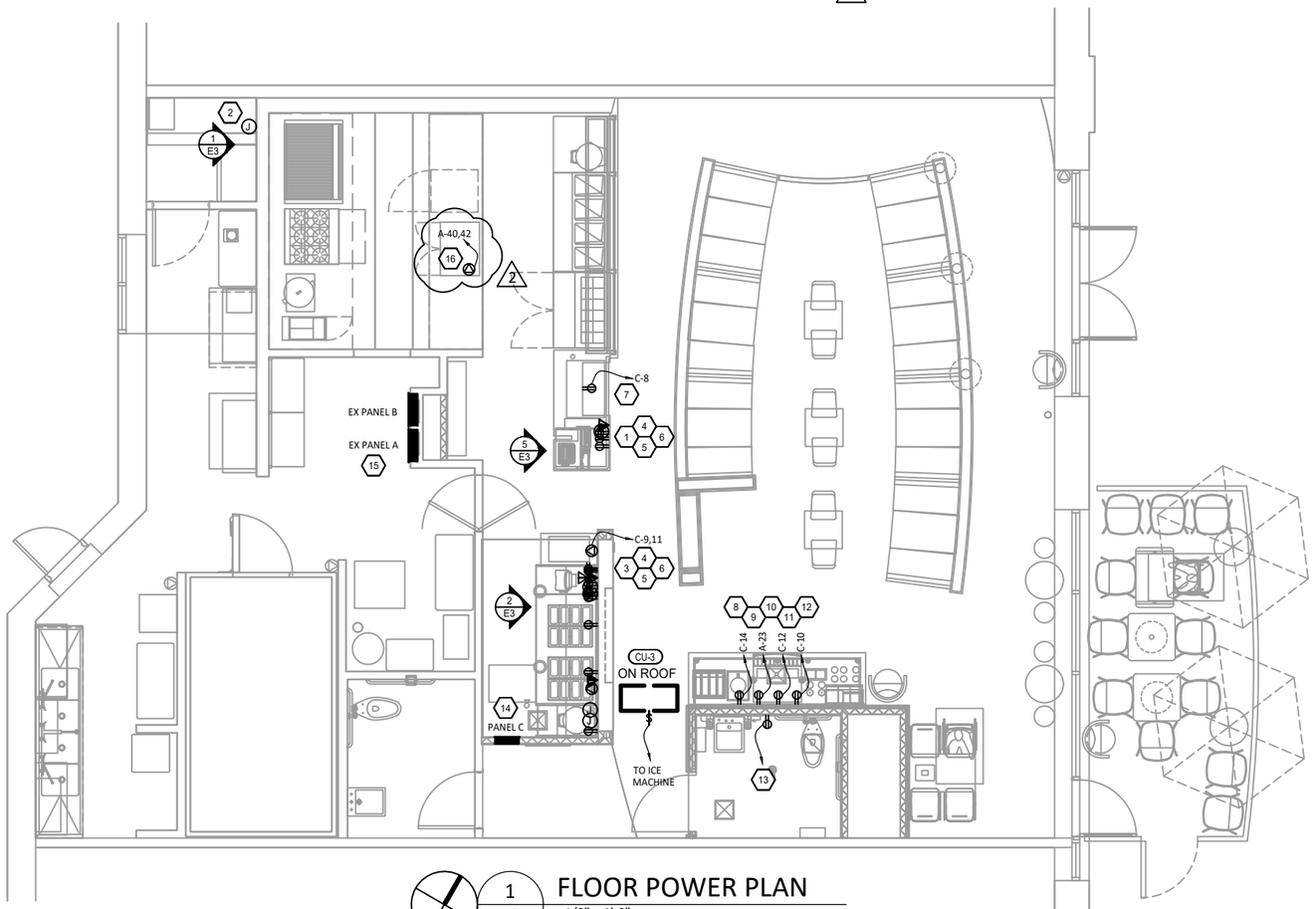
E1.1

ELECTRICAL POWER PLAN NOTES

1. LABEL EXISTING RECEPTACLES WITH THEIR EXISTING CIRCUIT THEN DISCONNECT AT PANEL.
2. PROVIDE SINGLE GANG J-BOX TO PULL NEW DATA CABLES FROM NEW DML. NEW J-BOX TO BE LOCATED WITHIN 24" OF WHERE CABLES PLUG INTO EXISTING ISR. COORDINATE LOCATION IN FIELD. CONDUIT IS TO BE RUN WITHIN WALL AND SINGLE GANG J-BOX IS TO BE RECESSED.
3. PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGTHING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E2 AND/OR E3 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.
4. 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.
5. COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
6. PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT A 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.
7. PROVIDE 20A-1P RECEPTACLE FOR SERVE LINE BEVERAGE COOLER.
8. PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
9. LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".
10. PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
11. PROVIDE NEW RECEPTACLE FOR EXISTING BEVERAGE DISPENSER AS SHOWN. CONNECT TO EXISTING CIRCUIT PREVIOUSLY USED AS INDICATED. FIELD VERIFY CIRCUIT SHOWN IS CORRECT PRIOR TO CONNECTION.
12. CONCEAL ICE SANITIZER UNDER THE UTENSIL COUNTER.
13. RELOCATE EXISTING RESTROOM HAND RECEPTACLE TO NEW LOCATION SHOWN AND CONNECT TO EXISTING CIRCUIT PREVIOUSLY USED. FIELD VERIFY CIRCUIT SHOWN IS CORRECT PRIOR TO CONNECTION.
14. PROVIDE NEW 18 CIRCUIT PANEL C IN NEW WALL IN LOCATION SHOWN. SEE PANEL SCHEDULES SHEET E4 FOR MORE INFORMATION.
15. INSTALL NEW 70A THREE POLE BREAKER IN EXISTING PANEL A, CIRCUITS A-32,34,36. NEW BREAKER TO FEED NEW PANEL C. SEE PANEL SCHEDULES SHEET E4 FOR MORE INFORMATION.
16. PROVIDE 6-30R RECEPTACLE FOR NEW FUTURE EQUIPMENT. MOUNT RECEPTACLE UNDER EXISTING CHEF'S TABLE. RUN EXPOSED CONDUIT IN LIQUIDTIGHT FLEXIBLE METAL CONDUIT.



1 E2 FLOOR POWER PLAN
1/8" = 1'-0"

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RENOVATION TO
CHIPOTLE MEXICAN GRILL

STORE NO.: 0288

KINGSTOWNE
5955 KINGSTOWNE CENTER,
SUITE 160
ALEXANDRIA, VA 22315

Issue Record:

08.31.2020	Permit Issue

Revisions:

1 12.03.2020	Client Revision

Contents:

ELECTRICAL POWER PLAN

E2

LIGHTING FIXTURE SCHEDULE

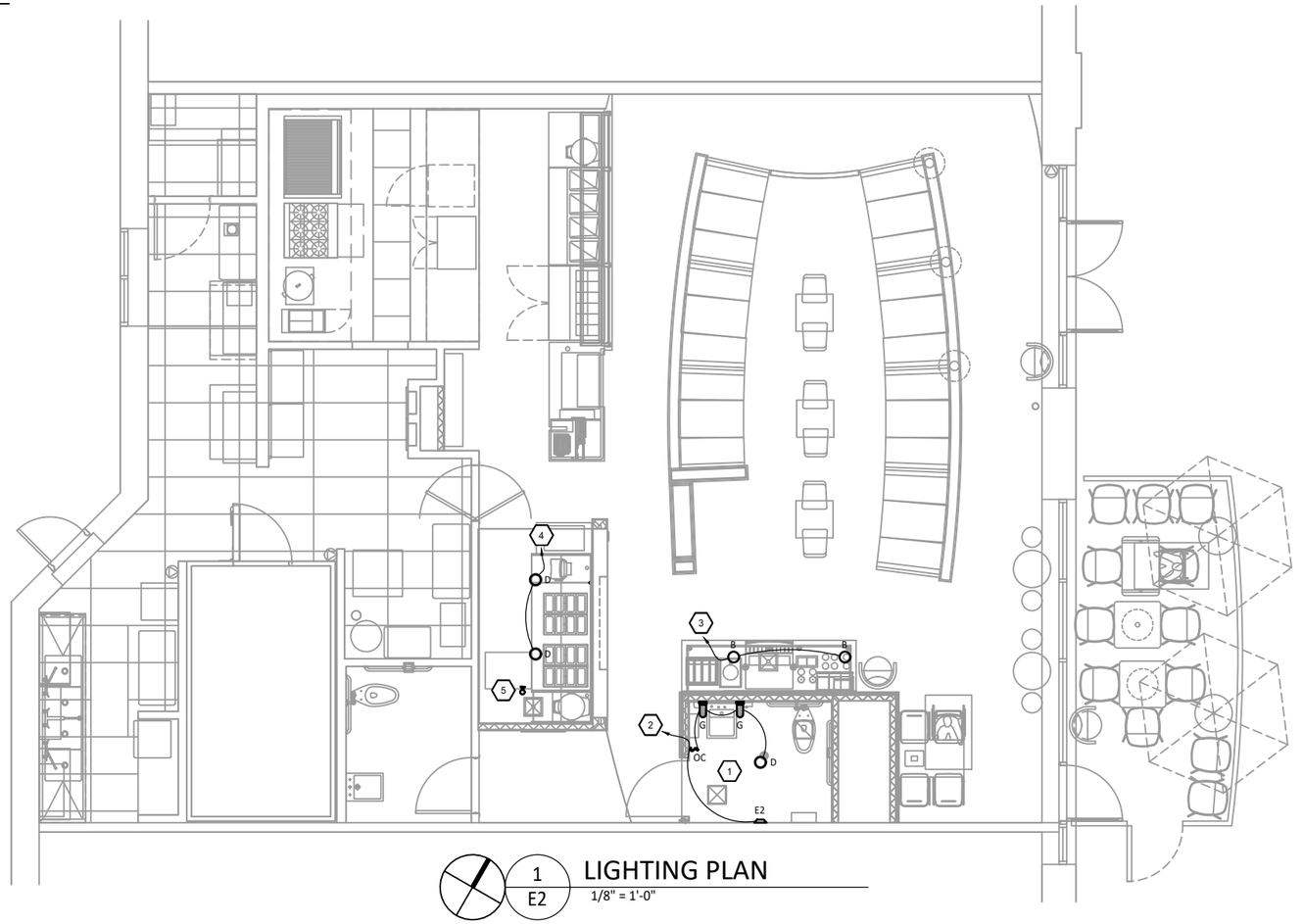
TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
C0	2	LOW PROFILE LED - 1FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C1	1	LOW PROFILE LED - 2FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/22/WW	INTEGRAL 3000K LED	120	9	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	4	LOW PROFILE LED - 3FT	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
D	2	6" RECESSED CAN	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	

LIGHTING FIXTURE SCHEDULE NOTES

A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURE ARE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED.
B. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
C. SEE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1. RELOCATE (2) WALL MOUNT LIGHTS (G) ABOVE SINK AS SHOWN. RELOCATE EXISTING EMERGENCY LIGHT (E2) TO NEW LOCATION SHOW. RELOCATE EXISTING OCCUPANCY SWITCH TO LOCATION SHOWN. RELOCATE EXISTING CAN LIGHT (D) TO NEW LOCATION SHOWN.
2. CONNECT RELOCATED RESTROOM LIGHTS TO EXISTING CIRCUIT RESTROOM LIGHTING CIRCUIT PREVIOUSLY USED. FIELD VERIFY CIRCUIT IS CORRECT PRIOR TO CONNECTION.
3. RELOCATE (2) EXISTING BEVERAGE COUNTER PENDENT LIGHTS (B) TO NEW LOCATION ABOVE NEW BEVERAGE COUNTER LOCATION AS SHOWN. RECONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY USED.
4. PROVIDE NEW CAN LIGHTS (D) FOR NEW DML AREA AS SHOWN, SEE LIGHTING SCHEDULE FOR MORE INFORMATION. CONNECT TO EXISTING KITCHEN LIGHTING CIRCUIT. FIELD VERIFY CIRCUIT SHOWN IS CORRECT PRIOR TO CONNECTION.
5. INSTALL NEW CEILING MOUNTED SECURITY CAMERA AS SHOWN. NEW CAMERA TO TIE INTO EXISTING SECURITY CAMERA SYSTEM.



1/E2 LIGHTING PLAN
1/8" = 1'-0"

MEP ENGINEER:
National Engineering, LTD.
4635 Trueman Blvd., Ste 250
Hilliard, OH 43026
(614) 751-9610

CLIENT:
Chipotle Mexican Grill, Inc.
PO Box 182566
Columbus, OH 43218-2566
(614) 318-2482

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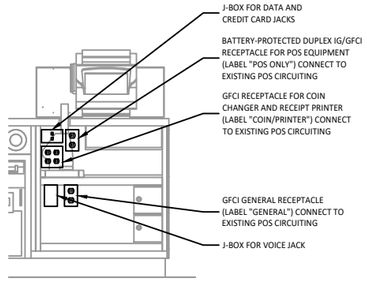
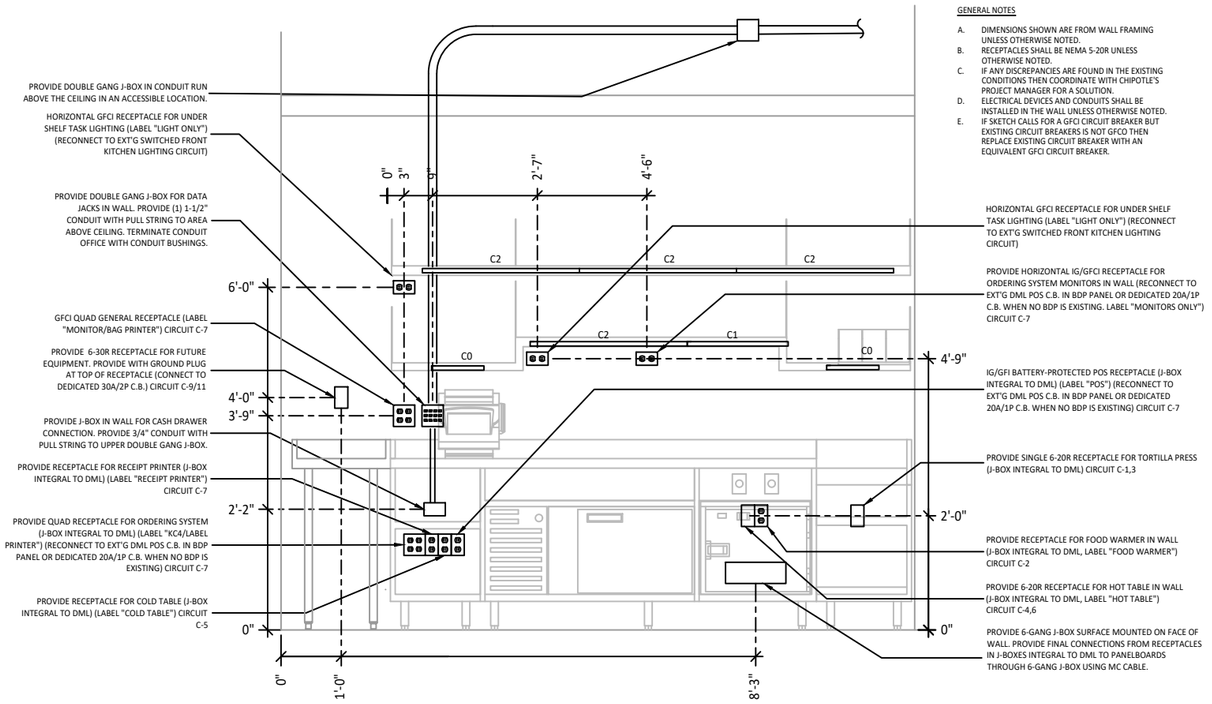
ELECTRICAL LIGHTING PLAN

E2.1



3 / E3 POS ELECTRICAL ELEVATION

NTS

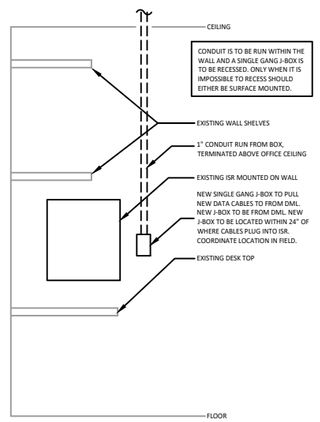


GENERAL NOTES

A. DIMENSIONS SHOWN ARE FROM WALL FRAMING UNLESS OTHERWISE NOTED.
B. RECEPTACLES SHALL BE NEMA 5-20R UNLESS OTHERWISE NOTED.
C. IF ANY DISCREPANCIES ARE FOUND IN THE EXISTING CONDITIONS THEN COORDINATE WITH CHIPOTLE'S PROJECT MANAGER FOR A SOLUTION.
D. ELECTRICAL DEVICES AND CONDUITS SHALL BE INSTALLED IN THE WALL UNLESS OTHERWISE NOTED.
E. IF SKETCH CALLS FOR A GFCI CIRCUIT BREAKER BUT EXISTING CIRCUIT BREAKERS IS NOT GFCO THEN REPLACE EXISTING CIRCUIT BREAKER WITH AN EQUIVALENT GFCI CIRCUIT BREAKER.

2 / E3 DML ELECTRICAL ELEVATION

NTS



1 / E3 OFFICE ELECTRICAL ELEVATION

NTS

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ELECTRICAL ELEVATIONS

E3

Volts 120/208V
Phase 3
Wire 4
Mount FLUSH
Enclosure NEMA 1

Panel A (EXISTING)
Main 400A C.B
Amperage 400
MCB Rating N/A

CKT NO.	LOAD DESCRIPTION	C.B./ POLES	TYPE	CKT AMPS	LOAD TYPE	CKT KVA	LOAD (KVA) A	B	C	CKT KVA	LOAD TYPE	CKT AMPS	TYPE	C.B./ POLES	LOAD DESCRIPTION	CKT NO.
1				55.0	C	6.6	7.8			1.2	E	10.2				2
3	RTU-2	60/3		55.0	C	6.6		7.8		1.2	E	10.2		20/3	EF & MAU-1	4
5				55.0	C	6.6			7.8	1.2	E	10.2				6
7	FIRE ALARM BELL	20/1		4.2	G	0.5	1.6			1.1	A	7.5		20/1	RECESSED LIGHTS ABOVE COUNTER	8
9	TELEPHONE RECEPTACLE	20/1		3.0	G	0.4		1.7		1.3	A	8.4		20/1	TABLE LIGHTS	10
11	POS RECEPTACLE	20/1		4.2	G	0.5			1.6	1.1	A	7.5		20/1	LIGHTS - SERVICE COUNTER	12
13	POS RECEPTACLE	20/1		4.2	G	0.5	2.0			1.5	A	10.0		20/1	TABLE LIGHTS	14
15	GENERAL RECEPTACLE	20/1		6.0	G	0.7		2.0		1.3	A	8.4		20/1	DINING LIGHTS	16
17	GENERAL RECEPTACLE	20/1		4.5	G	0.5			2.2	1.7	A	11.2		20/1	KITCHEN LIGHTS	18
19	HOT WATER HEATER	20/1		0.5	F	0.0	1.7			1.7	A	11.2		20/1	KITCHEN LIGHTS	20
21	SPARE ON ROOF	20/1		3.5	G	0.4		1.7		1.3	E	11.0		20/1	BATH LIGHT & EF	22
23	SODA MACHINE	20/1		8.4	F	0.7			1.4	0.7	G	6.0		20/1	SHOW WINDOW RECEPTACLE	24
25	CALIENTE	20/2		7.5	F	0.6	1.1			0.5	G	4.5	GFI	20/1	RESTROOM RECEPTACLES	26
27				7.5	F	0.6		0.6		0.0					SPACE	28
29	SANDWICH MACHINE	20/1		5.0	F	0.4			1.1	0.7	E	5.5		20/1	COOLER LIGHTS AND FANS	30
31	HOT FOOD WARMER	20/2		16.4	F	1.3	5.9			4.6		38.3		70/3	**NEW**PANEL C (4-#3W/#8G IN 1-1/4"C)	32
33				16.4	F	1.3		6.2		4.9		40.8				34
35	SPARE ON ROOF	20/1		0.0	G	0.0			3.9	3.9		32.5				36
37	GRILL	20/2		13.0	F	1.0	2.3			1.3	G	10.5	GFI	20/1	CHILLER PANEL	38
39				13.0	F	1.0		3.2		2.2	F	28.0		30/2	**NEW** FUTURE EQUIPMENT	40
41	SPACE					0.0			2.2	2.2	F	28.0				42
SUB FEED	PANEL B			124.2		14.9	14.9									
				130.8		15.7		15.7								
				131.7		15.8			15.8							
										TOT						
						KVA	37.3	38.9	36.0	112.2						
						AMPS	311	324	300	311						

2

Type	Description	Demand Factor	Estimated Demand: Includes Panels B & C
A	Interior Lighting	125%	9.7
B	Exterior Lighting	125%	0.0
C	Comfort Cooling	100% + 25% Largest Motor	31.2
D	Comfort Heating	100%	0.0
E	Miscellaneous Motor	100%	25.6
F	Kitchen Equipment	65%	33.9
G	Receptacles	100%	11.8
TOT			112.2

Volts 120/208V
Phase 3
Wire 4
Mount FLUSH
Enclosure NEMA 1

Panel B (EXISTING)
Main LUGS
Amperage 200
MCB Rating N/A

CKT NO.	LOAD DESCRIPTION	C.B./ POLES	TYPE	CKT AMPS	LOAD TYPE	CKT KVA	LOAD (KVA) A	B	C	CKT KVA	LOAD TYPE	CKT AMPS	TYPE	C.B./ POLES	LOAD DESCRIPTION	CKT NO.
1	SODA DISPENSER	20/1		9.4	F	0.7	1.8			1.1	F	13.8				2
3	RECEPTACLE ON WALL	20/1		9.8	G	1.2		2.3		1.1	F	13.8		20/2	SANDWICH GRILL	4
5	RECEPTACLE ON WALL	20/1		9.8	G	1.2			1.7	0.5	F	6.9		20/1	SANDWICH PREP TABLE	6
7	CIRCULATING PUMP	20/1		1.3	G	0.2	0.8			0.6	F	8.3		20/1	FOOD WARMER	8
9	CIRCULATING PUMP	20/1		1.3	G	0.2		1.0		0.8	G	6.3		20/1	BLENDER	10
11	ICE MACHINE	20/2		10.7	F	0.8			1.4	0.6	F	7.1		20/1	REACH-IN REFRIG.	12
13				10.7	F	0.8	1.2			0.4	F	5.0		20/1	REFRIG.	14
15	CU-2	20/2		10.6	E	1.3		1.5		0.2	G	1.5		20/1	SECURITY RECEPTACLE	16
17				10.6	E	1.3			1.8	0.5	G	4.5		20/1	OFFICE/POS RECEPTACLE	18
19	HOT FOOD SERVER	20/1		16.4	F	1.3	1.5			0.2	G	1.5		20/1	STEREO RECEPTACLE	20
21	HOT FOOD SERVER	30/2		16.4	F	1.3		1.3		0.0		0.0		20/1	SPARE	22
23				16.4	F	1.3			1.3	0.0		0.0		20/1	SPARE	24
25	CU-1	50/3		48.1	E	5.8	9.6			3.8	C	31.5		60/3	RTU-1	26
27				48.1	E	5.8		9.6		3.8	C	31.5				28
29				48.1	E	5.8			9.6	3.8	C	31.5				30
										TOT						
						KVA	14.9	15.7	15.8	46.4						
						AMPS	124	131	132	129						

Volts 120/208V
Phase 3
Wire 4
Mount FLUSH
Enclosure NEMA 1

Panel **NEW** C
Main C.B.
Amperage 125
MCB Rating 70A

CKT NO.	LOAD DESCRIPTION	C.B./ POLES	TYPE	CKT AMPS	LOAD TYPE	CKT KVA	LOAD (KVA) A	B	C	CKT KVA	LOAD TYPE	CKT AMPS	TYPE	C.B./ POLES	LOAD DESCRIPTION	CKT NO.
1	**NEW**TORTILLA PRESS (DML)	20/2		13.0	F	1.0	1.9			0.9	F	11.7	GFCI	20/1	FOODWARMER (DML)	2
3				13.0	F	1.0		1.8		0.8	F	10.0		20/2	**NEW**HOT FOOD WELLS (DML)	4
5	**NEW**COLD TABLE (DML)	20/1	GFCI	10.0	F	0.8			1.6	0.8	F	10.0				6
7	**NEW**RECEPTACLES (DML)	20/1		10.5	G	1.3	2.0			0.7	F	8.8	GFCI	20/1	**NEW** POS BEVERAGE COOLER	8
9	**NEW** TURBO CHEF	30/2		28.0	F	2.2		3.1		0.9	F	12.0		20/1	**NEW**DINING ICE MAKER	10
11				28.0	F	2.2			2.3	0.1	F	1.5	GFCI	20/1	**NEW**UV SANITIZER	12
13	SPARE	20/1		0.0		0.0	0.7			0.7	F	8.5		20/1	**NEW**BEVERAGE DISPENSER	14
15	SPARE	20/1		0.0		0.0		0.0		0.0		0.0		20/1	SPARE	16
17	SPARE	20/1		0.0		0.0			0.0	0.0		0.0		20/1	SPARE	18
										TOT						
						KVA	4.6	4.9	3.9	13.4						
						AMPS	38	41	33	37						

PANELBOARD SCHEDULE NOTES

A. PANELBOARDS A & B ARE EXISTING AND TO REMAIN IN PLACE.
B. CIRCUITS DESIGNATED AS **NEW** ARE IN SCOPE OF WORK CONTAINED WITH IN THIS DRAWING SET. ALL OTHER CIRCUITS ARE EXISTING AND ARE TO REMAIN.
C. NEW PANELBOARD SCHEDULES ARE TO BE PROVIDED. PANELBOARD SCHEDULES MUST BE TYPED. HANDWRITTEN AMENDMENTS ARE NOT ACCEPTABLE.

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ELECTRICAL SCHEDULES

E4