Joe Frogge

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/24/2020

Governmental Agencies

Building Department

CITY OF LEE'S SUMMIT
DEVELOPMENT SERVICES
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
PHONE: 816-969-1200

Fire Marshal

CITY OF LEE'S SUMMIT FIRE DEPT.
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
PHONE: 816-969-1303

Building Data

BUILDING CODE:
2018 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:
2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:
2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE:
2017 NATIONAL ELECTRICAL CODE
FIRE CODE:
2018 INTERNATIONAL FIRE CODE

EXISTING SQUARE FOOTAGE AND OCCUPANCY TO REMAIN UNCHANGED.

EXISTING RESTAURANT DATA

OCCUPANCY:	ASSEMBLY (A2)
BUILDING AREA:	EXISTING, UNCHANGED
EXIT WIDTH:	EXISTING, UNCHANGED
BUILDING OCCUPANT LOAD:	EXISTING, UNCHANGED

PROPOSED WORK DATA

OCCUPANCY:	ASSEMBLY (A2)
HEIGHT/AREA:	UNCHANGED
EXIT WIDTH:	N/A
BUILDING OCCUPANT LOAD:	N/A

Scope of Work

THESE DOCUMENTS REPRESENT INTERIOR RENOVATION SCOPE BEYOND THE ALWAYS FRESH SCOPE OF WORK. THE ONLY AREA AFFECTED BY THE UPGRADE IS THE SERVING AREA AND MAIN ENTRY VESTIBULE. SEE KEY PLAN FOR DESIGNATED PROJECT AREA. THE FOLLOWING IS A SUMMARY OF THE INTENDED WORK TO TAKE PLACE.

ARCHITECTURAL:
- REMOVE PORTION OF EXISTING ENTRY VESTIBULE AND PROVIDE NEW WALLS, DOORS, AND FINISHES
- REMOVE EXISTING SERVING COUNTER MILLWORK AND REPLACE WITH NEW SERVING COUNTER MILLWORK
- SAWCUT AND TRENCH FOR NEW PLUMBING/ELECTRICAL WORK

MECHANICAL:
- REMOVE EXISTING SUPPLY AND RETURN GRILLES AND INSTALL NEW - CONNECT TO EXISTING SYSTEM AT ENTRY VESTIBULE

PLUMBING:
- REMOVE EXISTING FLOOR DRAINS AT SERVING AREA
- PROVIDE NEW WASTE PIPING FOR NEW FLOOR DRAIN LOCATIONS AT SERVING AREA - CONNECT TO EXISTING SYSTEM
- EXTEND EXISTING BEVERAGE CONDUITS BELOW SLAB TO NEW SERVING COUNTER LOCATION

ELECTRICAL:
- RELOCATE EXISTING LIGHTING AND RECEPTACLES AS SHOWN AT ENTRY VESTIBULE
- NEW ELECTRIC RUN UNDERSLAB TO NEW SERVING COUNTER LOCATION

Architect:

CHIPMAN DESIGN ARCHITECTURE
1350 EAST TOUHY AVENUE
FIRST FLOOR EAST
DES PLAINES, IL 60018
CONTACT: TRAVIS PETERSON
PHONE: (847) 298-6900

Mechanical/Electrical Plumbing Engineer:

KURZYNSKE & ASSOC.
2900 LEBANON PIKE, STE 201
NASHVILLE, TN 37214
CONTACT: DAVE BOWLING
TEL: (615) 255-5203
FAX: (615) 255-5207

Kitchen Consultant:

TRIMARK STRATEGIC
3011 INDUSTRIAL PARKWAY EAST
KNOXVILLE, TN. 37921
CONTACT: SARAH CLARK
PHONE: (865) 545-5223
FAX: (865) 522-4448

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349-2998
PHONE: (404) 765-8000
FAX: (404) 684-8550

SERVING COUNTER REPLACEMENT

LEE'S SUMMIT FSU #2859
690 NW BLUE PKWY
LEE'S SUMMIT, MO 64086
MARCH 2020

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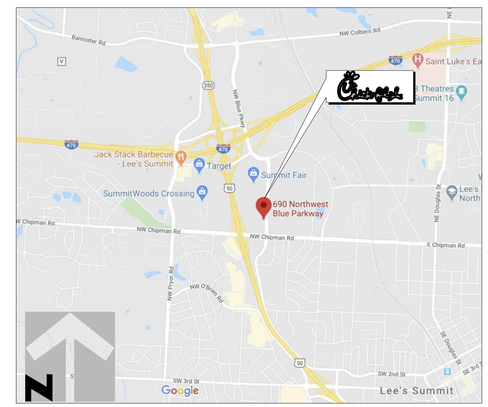
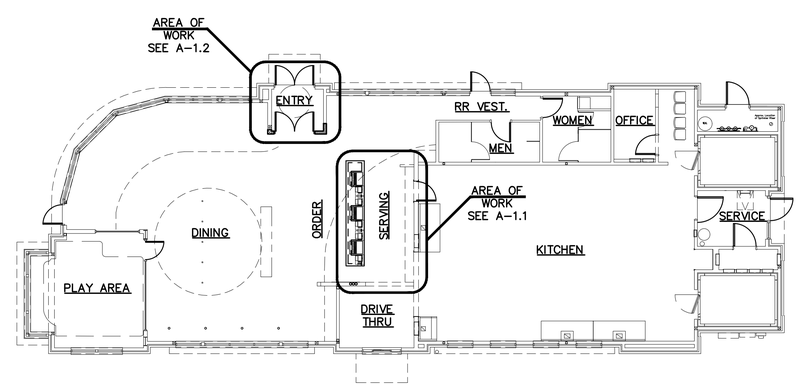


1 VICINITY MAP
NOT TO SCALE



KEY PLAN
NORTH

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	03.25.20 ISSUED FOR PERMIT	

CHIPMAN DESIGN ARCHITECTURE INC
1350 E. TOUHY AVE
DES PLAINES, IL 60018
PHONE: 847.298.6900

STORE #2859
LEE'S SUMMIT FSU

690 NW BLUE PKWY
LEE'S SUMMIT,
MO 64086

SHEET TITLE
TITLE SHEET

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Sheet
T-1.1

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4. ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTE
ACOUST.	ACOUSTICAL
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADH.	ADHESIVE
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT.	ALTERNATE
AL./ALUM.	ALUMINUM
AMP.	AMPERE
ANOD.	ANODIZED
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
AVG.	AVERAGE
B/	BOTTOM OF
BD.	BOARD
BEV.	BEVERAGE
BLDG.	BUILDING
B.F.P.	BACK FLOW PREVENTOR
BLK.	BLACK
BLK'G.	BLOCKING
BRG.	BEARING
BRKT.	BRACKET
BTM.	BOTTOM
C.F.M.	CUBIC FEET PER MINUTE
C.G.F.	COMPACTED GRANULAR FILL
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDUIT
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
C.T.	CERAMIC TILE
C.S.I.	CONSTRUCTION SPECIFICATION INSTITUTE
CU. DBL.	CUBIC DOUBLE
DEG.	DEGREES
DIA.	DIAMETER
DIM.	DIMENSION
DISC.	DISCONNECT
DN.	DOWN
DR.	DOOR
DTL.	DETAIL
DWG.	DRAWING
DWLS.	DOWELS
EA.	EACH
ELEC./ELECT.	ELECTRIC/-AL
ELEV./EL.	ELEVATION
ENG.	ENGINEER/ED
EQ.	EQUAL
EQUIP.	EQUIPMENT
ETC.	ETCETERA
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
FIN.	FINISH
	FLOOR
F.O.	FINISHED OPENING
F.R.P.	FIBERGLASS REIN-FORCED PLASTIC
FT.	FEET/FOOT
FTG.	FOOTING
GA.	GAGE/GUAGE
G.C.	GENERAL CONTRACTOR
GALV.	GALVANIZED
GD.	GRADE
GL.	GLASS
GYP.	GYPSUM
H.C.	HANDICAP ACCESSIBLE
H.D.	HIGH DENSITY
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.O.	HIGH OUTPUT
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
H.R.C.	HEATING & REFRIGERATION CONTRACTOR(S)
HT.	HEIGHT
H.V.A.C.	HEATING, VENTILATION, AIR CONDITIONING
HZ.	HERTZ
I.G.	ISOLATED GROUND
IN.	INCHES
INCL.	INCLUDE/ED
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
J-BOX	JUNCTION BOX
JST.	JOIST
JT.	JOINT
K.S.I.	KIPS PER SQ. IN.
LAM.	LAMINATE
LAV.	LAVATORY
LBF.	POUNDS FORCE
LBS.	POUNDS
L.F.	LINEAL FOOT
L.G.C.	LANDLORD'S GENERAL CONTRACTOR
L.P.	LOW POINT
LL.	LANDLORD
LLV.	LONG LEG VERTICAL
MA.	MILLIAMPERE
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFG./ MANUF.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MM.	MILLIMETER
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MSRY.	MASONRY
MTD.	MOUNTED
MTL.	METAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NO./NUM.	NUMBER
N.T.S.	NOT TO SCALE
O.A.	OVER ALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPT.	OPTIONAL
OPP.	OPPOSITE
P.C.C.	PRE-CAST CONCRETE
PH. BD.	PHONE BOARD
PKG.	PARKING
PL.	PLATE
PLMB.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
P.O.S.	POINT OF SALE
PR.	PAIR
PREP.	PREPARATION/ PREPARED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	PART/POINT
P.V.C.	POLY VINYL CHLORIDE
PVMT.	PAVEMENT
QTY.	QUANTITY
R.A.	RETURN AIR
R./RAD.	RADIUS
R.D.	ROOF DRAIN
RE.	REFERENCE
RECPT.	RECEPTACLE
REINF.	REINFORCING
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
R.R.	RESTROOM
R.T.U.	ROOF TOP UNIT
SAN.	SANITARY
S.C.	SOLID CORE
SCHD.	SCHEDULE
SECT.	SECTION
SERV.	SERVICE
SEV.	SEVER
SF.	STOREFRONT
SHT.	SHEET
SIM.	SIMILAR
S.J.	SAWCUT JOINT
SM.	SMALL
SPECS.	SPECIFICATIONS
SPRINK.	SPRINKLERS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
S.S., S/S	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STN.	STATION
STRUCT.	STRUCTURE/-AL
SUPPL.	SUPPLY/-IED
SUSP.	SUSPENDED
T/	TOP OF
TB.	THROUGHBOLT
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEMP.	TEMPERED
THRU	THROUGH
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
UV.	ULTRAVIOLET
V.	VOLT/VOLTAGE
V.B.	VAPOR BARRIER
V.C.	VOLUME CONTROL
V.I.F.	VERIFY IN FIELD
V.P.	VENT PIPE
VERT.	VERTICAL
W.	WIDE
W/-W/O	WITH/WITHOUT
W.B.	WALL BASE
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.H.	WATER HEATER
WK.	WORK
WP.	WATER PROOF
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

2. EXISTING CONDITION NOTES:

1. ALL EXTERIOR LEASE DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY TENANT/CONTRACTOR PRIOR TO COMMENCEMENT OF WORK, TO VERIFY ACCURACY OF DRAWINGS.
2. THESE DOCUMENTS HAVE BEEN PREPARED EXPRESSLY FOR USE BY CHICK-FIL-A, INC. SOLELY FOR THE PURPOSE OF TENANT IMPROVEMENTS WITHIN AN EXISTING BUILDING PROVIDED BY A BUILDING OWNER. (AT THE SPECIFIC LOCATION MENTIONED)
3. ALL FLOOR SLAB CUTTING , TRENCHING AND REMOVAL SHALL BE REPLACED WITH THE SAME MATERIAL IN THE SAME THICKNESS OF THE ADJACENT FLOOR MATERIAL. ADDITIONAL, CONC. PATCHING SHALL BE DOWELED INTO THE ADJACENT CONCRETE SLAB TO MINIMIZE DIFFERENTIAL SETTLEMENT OF THE FLOOR SYSTEM.-
4. PROVIDE TEMPORARY BRACING AND SHORING WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS, AND TO PROTECT ALL PERSONS AND PROPERTY, AND TO ENSURE PROPER ALIGNMENT. COMPLY WITH ALL STATE, O.S.H.A. AND LOCAL CODES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING ADEQUATE BRACING OF WALLS DURING DEMOLITION AND ERECTION TO PREVENT DAMAGE DUE TO HIGH WINDS OR OTHER LATERAL LOADS AND CONSTRUCTION IMPACTS. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR DAMAGE DUE TO HIS FAILURE TO TAKE SUCH PRECAUTIONS.
5. DEMOLITION RESPONSIBLITIES ARE NOT NECESSARILY LIMITED TO THOSE LISTED HERE. WORK INCLUDES REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING CONSTRUCTION ITEMS THAT ARE NOT UTILIZED IN THE FINISHED PROJECT. REMOVE ALL ITEMS SPECIFICALLY INDICATED IN THE DRAWINGS AND ITEMS WHICH ARE NECESSARY TO BE REMOVED IN ORDER TO FACILITATE THE FINISHED PROJECT.
6. DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING HIS BID.
7. SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE DEMOLITION.
8. MAINTAIN EXISTING UTILITIES WHERE APPLICABLE TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
9. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. REMOVE & TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
10. PROTECT WALLS, ROOF, AND EXISTING FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING DEMOLITION OPERATIONS.

3. DRAWING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X / AX.X	SECTION TAG- SEE DWG. AS NOTED	XAX.X	DETAIL TAG- SEE DWG. AS NOTED	X	COLUMN LINE
X	DOOR TAG- SEE DOOR SCHD.	X-X	INTERIOR/ EXTERIOR FINISH TAG	X-X	INTERIOR/ EXTERIOR FINISH TAG
	ELEVATION BENCHMARK	X	REVISION TAG	XAX.X	ELEVATION TAG- SEE DWG. AS NOTED

1. GENERAL NOTES

1. DO NOT SCALE DRAWINGS- WRITTEN DIMENSIONS TAKE PRECEDENT.
2. IN CASE OF DISCREPANCIES OR CONFLICTS, NOTIFY ARCHITECT BEFORE PROCEEDING WITH ANY WORK.
3. THESE DOCUMENTS HAVE BEEN PREPARED EXPRESSLY BY US FOR THE CONTRACTOR. ANY ADDITIONAL USE FOR ANY OTHER REASON MUST BE AUTHORIZED IN WRITING BY ARCHITECT.
6. ALL DRAWINGS AS LISTED IN THE DRAWING INDEX AND CONTRACT FOR CONSTRUCTION CONSTITUTES THE INSTRUMENTS OF SERVICE AND IS CONSIDERED A SINGLE ENTITY. THE CONTRACTOR IS THEREFOR BOUND BY ALL INFORMATION INCLUDED.
7. ONLY DRAWINGS MARKED "ISSUED FOR CONSTRUCTION" BY ARCHITECT/ENGINEER SHALL BE USED AS A BASIS FOR CONSTRUCTION.
8. PRIOR TO PROCEEDING WITH ANY WORK, CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD AND NOTIFY THE ARCHITECT IN CASE OF DISCREPANCIES.
9. IT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTORS TO COORDINATE WITH OTHER SUBCONTRACTORS/TRADES. FAILURE TO DO SO WILL NOT CONSTITUTE GROUNDS FOR A CHANGE ORDER.
10. ALL WORK SHALL BE SUBJECT TO FINAL INSPECTION BY THE ARCHITECT AND ACCEPTANCE BY THE OWNER.
11. THE GENERAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR ALL CONTRACTORS AND SUBCONTRACTORS TO OBTAIN PROPER INSURANCE CERTIFICATES PRIOR TO COMMENCEMENT OF WORK. DELAYS AND PENALTIES DUE TO SUCH FAILURE SHALL BE INCURRED BY THE GENERAL CONTRACTOR. THERE CAN BE NO PENALTY ON THE OWNER.
12. THE SIZE AND LOCATION OF ALL EQUIPMENT PADS & PENETRATIONS THROUGH THE STRUCTURE SHALL BE VERIFIED BY THE MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. ALL PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
13. ANY ITEM OF WORK NECESSARY FOR COMPLETION OF CONSTRUCTION, WHICH IS NOT SPECIFICALLY COVERED ON THE DRAWINGS OR IN THE SPECIFICATIONS, SHALL BE CONSIDERED INCLUDED IN THIS WORK AND SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.
14. WHERE DUCTS, PILES, OR CABLES PENETRATE FIRE-RATED PARTITIONS, PROVIDE FIRESTOP MATERIAL

MOLD AND MILDEW

1. IF CONTRACTOR DISCOVERS MOLD OR MILDEW AT ANY TIME DURING THE WORK, CONTRACTOR TO IMMEDIATELY INFORM THE OWNER AND ARCHITECT IN WRITING.
2. CONTRACTOR SHALL RETAIN A CERTIFIED MOLD AND MILDEW TESTING AGENCY TO PERFORM INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF TESTS CONFIRMS HAZARDOUS CONDITION, THE CONTRACTOR SHALL OBTAIN A MINIMUM OF 2 BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM REMEDIATION WORK. REIMBURSEMENT OF REMEDIATION WORK TO BE DETERMINED BY THE OWNER AND ARCHITECT BEFORE CONTRACTOR BEGINS REMEDIATION WORK.
3. CONTRACTOR TO PROVIDE A MOISTURE PROTECTION PLAN TO AVOID TRAPPING WATER IN FINISHED WORK. CONTRACTOR TO DOCUMENT VISIBLE SIGNS OF MOLD THAT MAY APPEAR DURING WORK.
4. EXPOSED CONSTRUCTION: BEFORE INSTALLATION OF WEATHER BARRIERS, WHEN MATERIALS ARE SUBJECT TO WETTING AND EXPOSURE TO AIRBORNE MOLD SPORES, PROTECT MATERIALS FROM WATER DAMAGE AND KEEP ORGANIC MATERIALS FROM COMING INTO PROLONGED CONTACT WITH CONCRETE, REMOVE ALL STANDING WATER AND KEEP DECKS FROM PONDING, ALL DECK OPENINGS ARE TO BE COVERED.
5. PARTIALLY ENCLOSED CONSTRUCTION: AFTER INSTALLATION OF WEATHER BARRIERS BUT BEFORE FULL ENCLOSURE AND CONDITIONING OF BUILDING, WHEN INSTALLED MATERIALS ARE STILL SUBJECT TO INFILTRATION OF MOISTURE AND AMBIENT MOLD SPORES, DO NOT LOAD POROUS MATERIALS OR COMPONENTS INTO THE BUILDING, KEEP INTERIOR SPACES REASONABLY CLEAN AND PROTECTED FROM WEATHER, REMOVE CELLULOSE AND ORGANIC MATTER PERIODICALLY, DISCARD ALL WATER-DAMAGED MATERIAL, DISCARD ANY MATERIAL WITH MOLD GROWTH. SEQUENCE WORK THAT ALLOWS ANY WET MATERIALS TO DRY BEFORE ENCLOSING.
6. CONTROLLED CONSTRUCTION PHASE: AFTER COMPLETING AND SEALING OF WORK BUT PRIOR TO FULL OPERATION OF PERMANENT H.V.A.C. SYSTEMS, CONTROL MOISTURE AND HUMIDITY INSIDE TO AN EFFECTIVE DRY-IN CONDITION. USE PERMANENT H.V.A.C. SYSTEM TO CONTROL HUMIDITY. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, RELATIVE HUMIDITY, AND EXPOSURE TO WATER LIMITS. REMOVE MATERIALS THAT CANNOT BE COMPLETELY RESTORED TO MANUFACTURED MOISTURE LEVEL WITHIN 48 HOURS.

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△	03.25.20 ISSUED FOR PERMIT	
△		
△		

Seal
STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2009032816
ARCHITECT
03/25/2020

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF LEE'S SUMMIT, MO RELATING TO STRUCTURES AND BUILDINGS.

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE
FIRST FLOOR EAST
DES PLAINES, IL 60018
PHONE: 847.298.6900

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VERSION:
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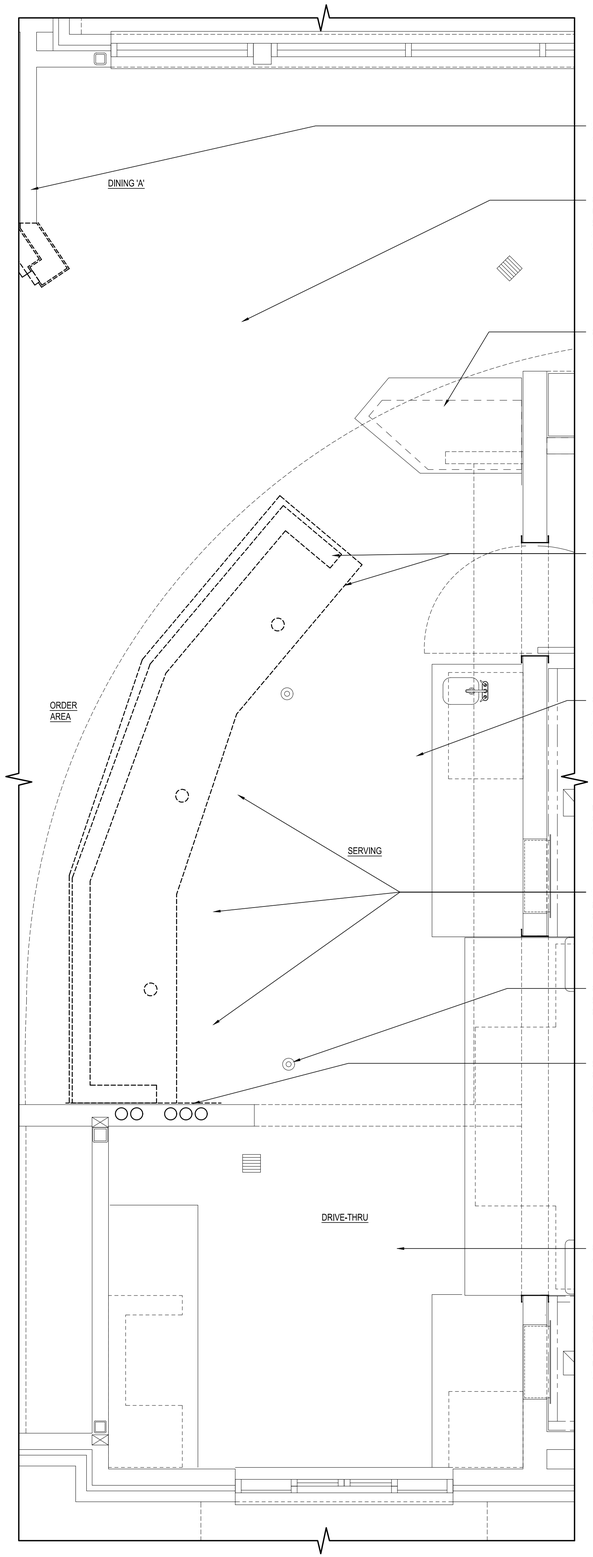
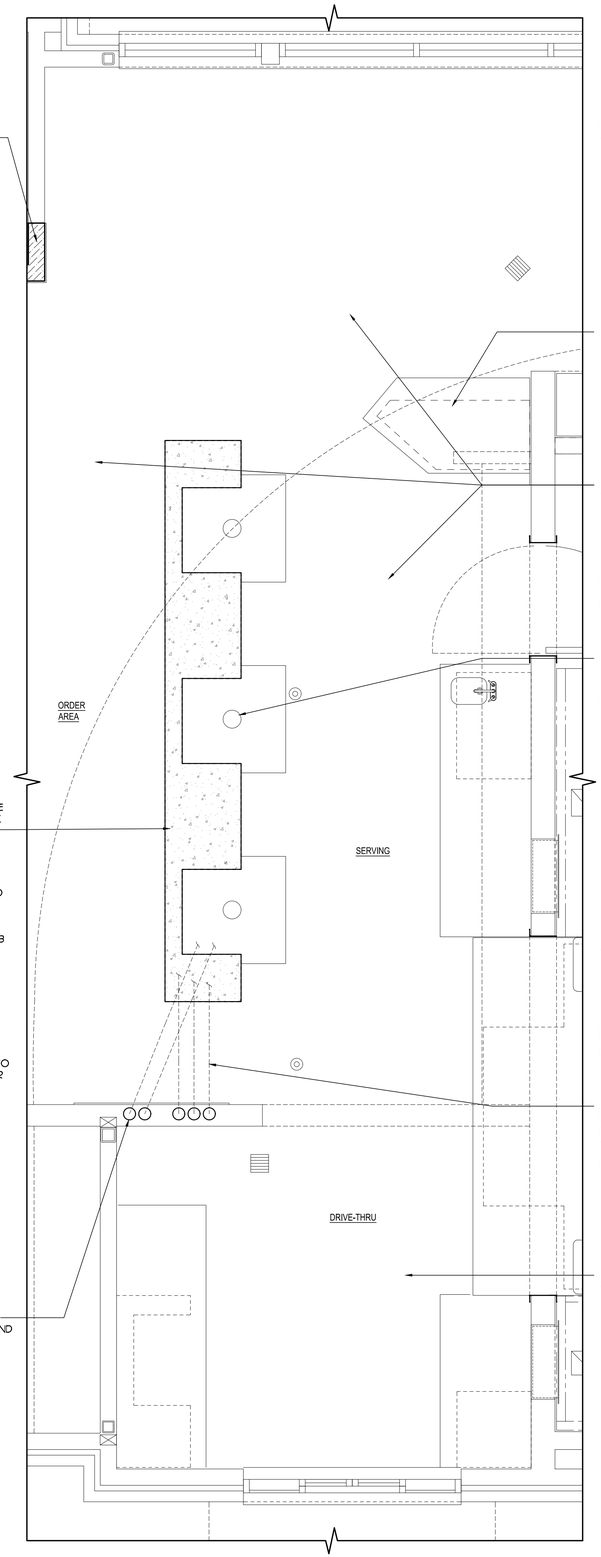
Sheet
T-1.2



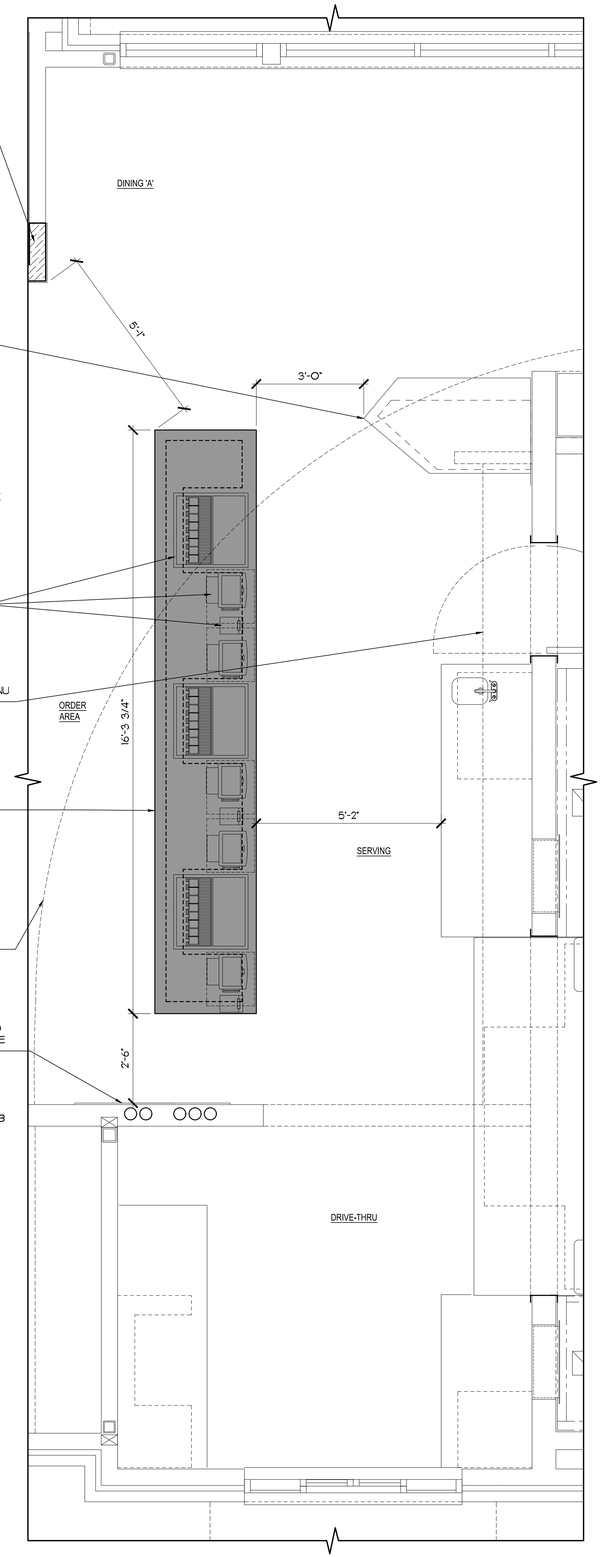
1 DEMOLITION PLAN - Serving Counter

1/2" = 1'-0"



2 PROPOSED CURB PLAN - Serving Counter

1/2" = 1'-0"



3 PROPOSED PLAN - Serving Counter

1/2" = 1'-0"

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LEE'S SUMMIT, MISSOURI
2/10/2021

Chick-fil-A

5200 Buffington Rd.
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△		

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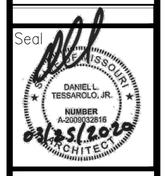
△		

Seal



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DES PLAINES, IL 60018
PHONE:847.298.4900

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SHEET TITLE
SERVING AREA FLOOR PLANS

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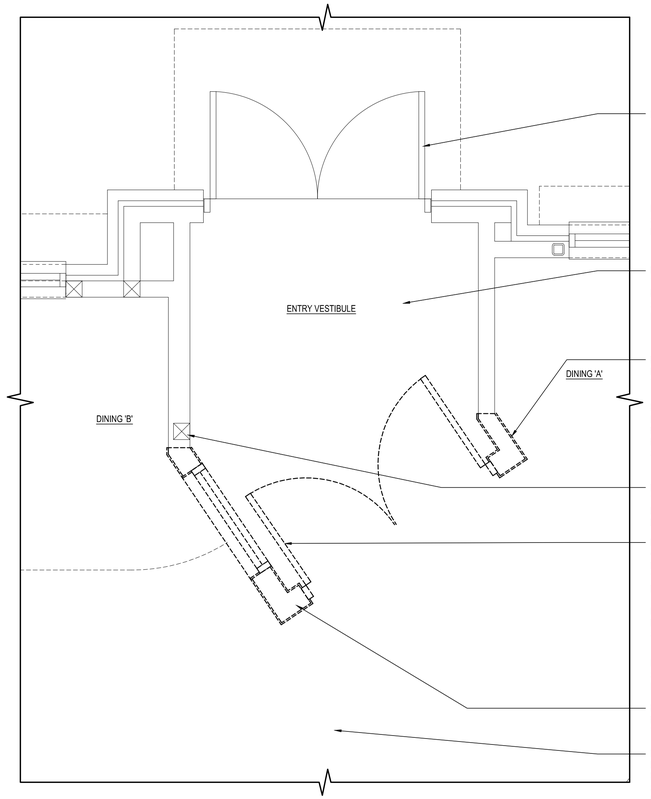
A-1.1



1 DEMOLITION PLAN - Entry Vestibule

1/2" = 1'-0"

EXISTING EXTERIOR DOOR ASSEMBLY TO REMAIN

NEW FLOOR TILE UNDER SEPARATE CONTRACT - NOT IN SCOPE OF WORK

EXISTING FLOOR TILE AT VESTIBULE IS BEING REMOVED UNDER A SEPARATE CONTRACT - NOT IN SCOPE OF WORK

REMOVE PORTION OF EXISTING WALL AT ENTRY VESTIBULE

RELOCATE EXISTING DOOR ASSEMBLY (IF PROVIDING NEW DOOR, FRAME AND HARDWARE - SEE SCHEDULE ON A-1.3)

EXISTING COLUMN IN WALL TO REMAIN - FIELD VERIFY LOCATION PRIOR TO DEMOLITION

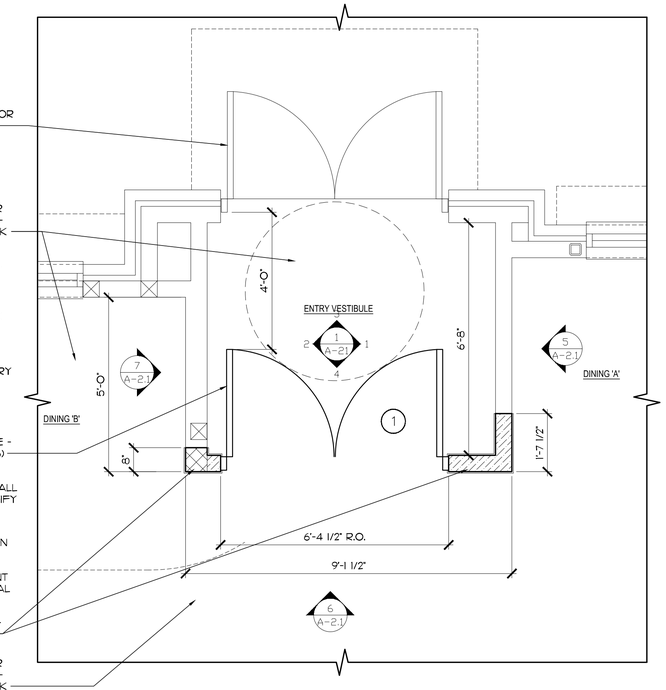
FIELD VERIFY CONDITION OF EXISTING DOOR/ FRAME - COORDINATE WITH FIELD CONSULTANT FOR REUSE OR REMOVAL

NEW WALL, MATCH EXISTING WALL DEPTH - SEE DETAIL 8/A-1.3

NEW FLOOR TILE UNDER SEPARATE CONTRACT - NOT IN SCOPE OF WORK

REMOVE PORTION OF EXISTING WALL AT ENTRY VESTIBULE

EXISTING FLOOR TILE AT DINING AREA IS BEING REMOVED UNDER A SEPARATE CONTRACT - NOT IN SCOPE OF WORK



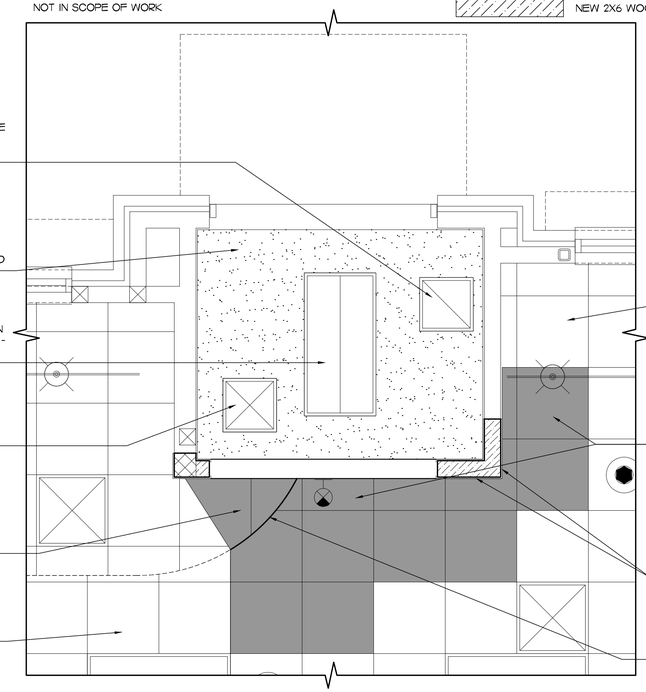
2 PROPOSED PLAN - Entry Vestibule

1/2" = 1'-0"

CONSTRUCTION LEGEND

NEW 2X8 WOOD STUD WALL AT 16" O.C.

NEW 2X6 WOOD STUD WALL AT 16" O.C.



NEW HVAC RETURN GRILLE - CONNECT TO EXISTING DUCTWORK. SEE MECHANICAL DRAWINGS

PATCH AND REPAIR EXISTING GYP BD CEILING AS REQUIRED FOR NEW VESTIBULE LAYOUT - COORDINATE WITH EXISTING SPRINKLER HEAD LOCATIONS

FIELD VERIFY EXISTING LIGHT FIXTURE CONDITION - REPLACE AS REQUIRED - SEE ELECTRICAL DRAWINGS

NEW HVAC SUPPLY GRILLE, CONNECT TO EXISTING DUCTWORK - SEE MECHANICAL DRAWINGS

NEW ACOUSTIC PANEL CEILING SYSTEM TO MATCH EXISTING - SEE ALWAYS FRESH SPECIFICATION MANUAL

EXISTING CEILING TILE - SEE ALWAYS FRESH SCOPE OF WORK

EXISTING CEILING TILE - SEE ALWAYS FRESH SCOPE OF WORK

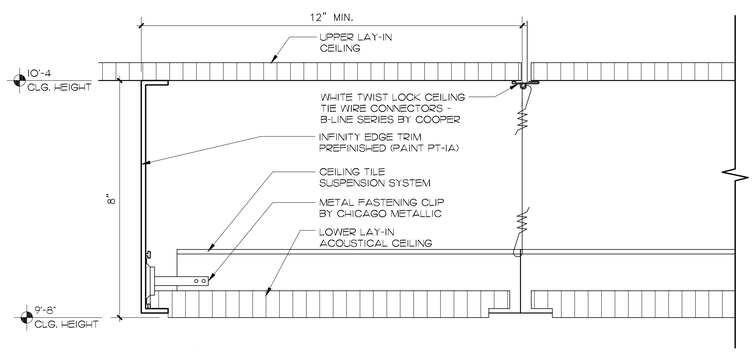
NEW ACOUSTIC PANEL CEILING SYSTEM TO MATCH EXISTING - SEE ALWAYS FRESH SPECIFICATION MANUAL

PROVIDE NEW CEILING EDGE TRIM AT NEW WALL AND CONNECT TO EXISTING CEILING GRID

NEW INFINITY EDGE TRIM AT SOFFIT - SEE DETAIL THIS SHEET

3 REFLECTED CEILING PLAN - Entry Vestibule

1/2" = 1'-0"



4 FLOATING CEILING EDGE DETAIL

1 1/2"=1'-0"

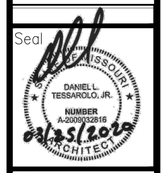
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
PA2020-0123

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△	03.25.20 ISSUED FOR PERMIT	
△		
△		

Seal



I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL LOCAL ORDINANCES OF LEE'S SUMMIT, MO RELATING TO STRUCTURES AND BUILDINGS.

CHIPMAN DESIGN ARCHITECTURE INC
1250 E TOUHY AVE
DES PLAINES, IL 60018
PHONE: 847.298.4900

STORE #2859
LEE'S SUMMIT FSU

690 NW BLUE PKWY
LEE'S SUMMIT,
MO 64086

SHEET TITLE
ENTRY VESTIBULE PLANS

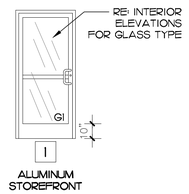
VERSION:
ISSUE DATE:

Job No.	: 20-3560.16
Store	: 2859
Date	: 03.25.20
Drawn By	: KS
Checked By	: TAP

Sheet
A-1.2

1 DOOR SCHEDULE

NUMBER	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	HWD	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	FRAME SIZE	FRAME FINISH	REMARKS
1	PR 3'-0" X 7'-0" X 1-3/4"	1	ALUMINUM W/GLASS	CLEAR ANODIZED PLUS	SET #1	ALUM. RE: 7A1.3	7A/A1.3 2A3.1 SIM	7B/A1.3	7C/A1.3	4 1/2	CLEAR ANODIZED PLUS	NO LOCKING DEVICE ON THIS DOOR ADJUST CLOSER TO OPEN 95 DEG. MAX



3 DOOR TYPES

1/4"=1'-0"

2 HARDWARE SCHEDULE

SET	SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
1	YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P7120 3626	ROCKWOOD	483X- US32D
		2	DOOR PUSH/PULL	YKK	H1141 - CLEAR ANODIZED	KAWNEER	137703 - CLEAR ANODIZED
		2	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
		2 SETS	O/S PIVOTS	YKK	H2101RH/H2102LH	KAWNEER	050322, 050323, 035506
		2	FLOOR STOP	ROCKWOOD	P7120 3626	ROCKWOOD	483X- US32D

NOTES:
1. ALL CONSTRUCTION AND FINAL CORES ARE TO BE ORDERED BY G.C. FROM LOCKNET.
2. ALL DOOR AND HARDWARE PURCHASED BY G.C. THROUGH SUPPLIERS AS INDICATED ABOVE.
3. AT ALL ACCESSIBLE DOORS: CLOSERS TO BE ADJUSTED TO COMPLY WITH A.D.A. OPERATING FORCE EQUIREMENTS OF 5 LBS. MAX FOR ALL A.D.A. & ANSI HINGED DOORS, INTERIOR DOORS HINGED WITH CLOSER.
4. DOOR HARDWARE FINISHES SHALL MATCH EXISTING REMAINING ALUMINUM STOREFRONT (EXTERIOR) DOOR.

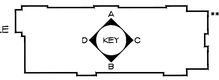
PERMANENT KEYING:
AA- MASTER (QTY. 6)
AAI- MASTER LESS OFFICE DOOR (QTY.6)

4 ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS A	WALLS B	WALLS C	WALLS D	CEILING	REMARKS
ENTRY VESTIBULE	CT-1	CTB-1	WD-3 / PT-1B	WD-3 / PT-1B	WD-3 / PT-1B	WD-3 / PT-1B	PT-1A	
ORDER AREA	CT-1	CTB-1	-	ETR / T-1A	-	-	ETR	BASE TILE WRAPS CONCRETE CURB & DRAIN CUTS
SERVING	CT-1	CTB-1	-	ETR / T-1A	-	-	ETR	BASE TILE WRAPS CONCRETE CURB & DRAIN CUTS

GENERAL NOTES:
1 - SEE PLAN, RCP AND INTERIOR ELEVATIONS FOR MORE INFORMATION

KEY:
EXT = EXISTING
N/A = NOT APPLICABLE

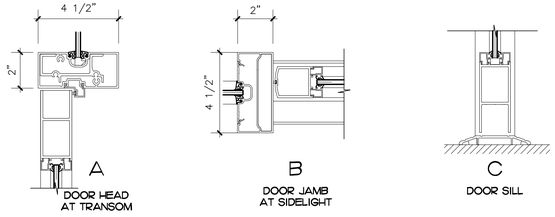


****REFERENCE KEY FOR ROOM FINISHES ONLY. DOES NOT REFLECT ACTUAL ORIENTATION OF BUILDING.

6 GLASS SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
GI	1/4"	TEMPERED	CLEAR	

NOTES:
1. PROTOTYPICAL STOREFRONT SYSTEM (MULLIONS AND GLAZING COMBINED) U-VALUE: 0.46 SHGC: 0.28 CLEAR GLASS ONLY, TINTED GLASS WILL NOT BE ACCEPTED.



7 STOREFRONT PROFILES

3"=1'-0"

5 INTERIOR FINISH SCHEDULE

CEILING FINISHES

ACT-2	**ACOUSTICAL CEILING TILE** ARMSTRONG WORLD INDUSTRIES, WHITE W/ WHITE ALUMINUM GRID, 24" X 24" CORTEGA #704 ANGLED TEGULAR EDGE W/ INFINITY EDGE TRIM BY CHICAGO METALLIC - PREFINISHED TO MATCH PT-1A - SEE FINISH NOTES
PT-1A	**PRIMARY INTERIOR CEILING PAINT** SHERWIN WILLIAMS, PRO MAR 200 ZERO VOC PAINT SW-7011 / NATURAL CHOICE, FINISH: FLAT

WALL FINISHES

T-1A	**SUBWAY WALL TILE** CREATIVE MATERIALS CORPORATION BONE, 4-1/4" X 8-1/4" GROUT: G2 - JOINT WIDTH: 1/8"
T-1D	**SUBWAY BULLNOSE OUTERCORNER** CREATIVE MATERIALS CORPORATION BONE, 4-1/4" X 4-1/4" DOUBLE BULLNOSE GROUT: G2 - JOINT WIDTH: 1/8"
T-1E	**SUBWAY BULLNOSE (4" SIDE)** CREATIVE MATERIALS CORPORATION BONE, 4-1/4" X 8-1/2" BULLNOSE ON 4-1/4" GROUT: G2 - JOINT WIDTH: 1/8"
T-1F	**SUBWAY BULLNOSE (8" SIDE)** CREATIVE MATERIALS CORPORATION BONE, 4-1/4" X 8-1/2" BULLNOSE ON 8-1/2" GROUT: G2 - JOINT WIDTH: 1/8"
G-2	**WALL TILE GROUT (T-1 SERIES, T-2, T-5, T-6)** MAPEI, KERACOLOR U WITH GROUT MAXIMIZER LATEX ADDITIVE 09 / GRAY, UNSANDED
PT-1B	**PRIMARY INTERIOR WALL PAINT** SHERWIN WILLIAMS, PRO MAR 200 ZERO VOC PAINT SW-7011 / NATURAL CHOICE, FINISH: EGGSHELL
WD-3	**WAINSCOTING** CLAYTON FIXTURE, 1/4" PLYWOOD (WHITE OAK, PLAIN CUT LAUAN CORE WITH METAL TRIM) CUSTOM, FINISH: SOLID STOCK IS WHITE OAK STAINED GRIFFIN LIGHT WITH GLAZE, RE: DWGS. AND CLAYTON FIXTURE SHOPS. MUST BE ORDERED THROUGH CLAYTON FIXTURE.

WALL BASES

CTB-1	**CERAMIC TILE COVE BASE** CREATIVE MATERIALS CORPORATION LAVA, 6" X 12" COVE BASE GROUT: GI - JOINT WIDTH: 3/16"

FLOOR FINISHES

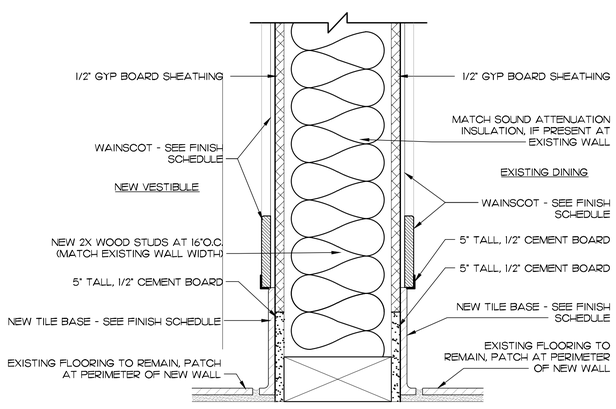
G-1	**FLOOR TILE GROUT (CT-1)** MAPEI, ULTRA COLOR GROUT 47 / CHARCOAL
CT-1	**CERAMIC FLOOR TILE** CREATIVE MATERIALS CORPORATION LAVA, 12" X 12" GROUT: GI - JOINT WIDTH: 3/16"

MISCELLANEOUS FINISHES

PL-40	**MILLWORK PLASTIC LAMINATE** WILSONART - CONTRACT COLLECTION D-96 / SHADOW (REFER TO MILLWORK SHOPS)
SS-1	**SOLID SURFACE (FRONT COUNTER)** AVONITE SURFACES, STUDIO COLLECTION CI-1800 / CFA MARBLE (REFER TO MILLWORK SHOP DRAWINGS)
MT-1	**"J" THIN TRIM (MILLWORK TRIM)** ALPHA COATING TECHNOLOGIES INC. TI-7060 / TRISMOKE (POWDERCOAT METAL FINISH)

FINISH NOTES

1. PROVIDE 5" HIGH BAND OF 1/2" CEMENTITIOUS BOARD AT BASE OF ALL WALLS IN DINING ROOMS AND VESTIBULES, 12" HIGH AT BASE OF KITCHEN WALLS. FOR ALL WALLS WITH TILE - PROVIDE FULL COVERAGE OF CEMENT BOARD SUBSTRATE FROM FLOOR TO THE HEIGHT OF WALL TILE. CEMENTITIOUS BOARD SHALL BE "DUROCK" BY U.S. GYPSUM. RE: INTERIOR ELEVATIONS.
2. FOR WAINSCOTING WHERE GRAPHIC MESSAGE EXTENDS ABOVE TOP HORIZONTAL TRIM CAP, INSTALLER TO FIELD CUT VERTICAL BATTENS AND TOP CAP AT GRAPHICS AS REQUIRED. COORDINATE WITH CHARTER HOUSE.
3. ALL CERAMIC TILE SHALL HAVE 3/8" WIDE GROUT JOINTS.



8 WALL AND BASE DETAIL

3"= 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEPARTMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/25/2020

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	03.25.20 ISSUED FOR PERMIT	

Mark	Date	By

Mark	Date	By

Seal
STATE OF MISSOURI
DANIEL L. TESSAROLO, JR.
NUMBER A-2006032816
03/25/2020
ARCHITECT

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CHIPMAN DESIGN ARCHITECTURE INC
1330 E TOUHY AVE
DES PLAINES, IL 60018
PHONE: 847.298.4900

STORE #2859
LEE'S SUMMIT FSU

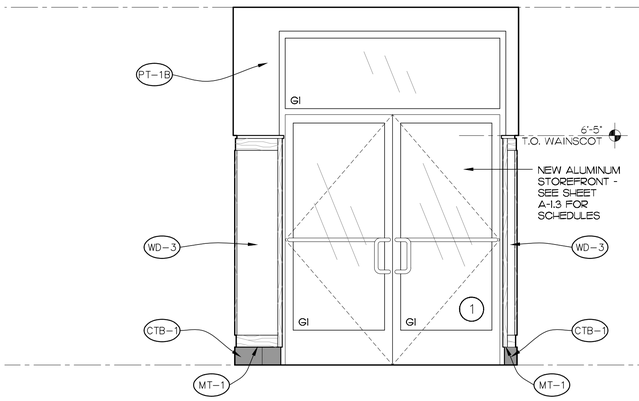
690 NW BLUE PKWY
LEE'S SUMMIT,
MO 64086

SHEET TITLE
SCHEDULES, DOOR TYPE, & DETAILS

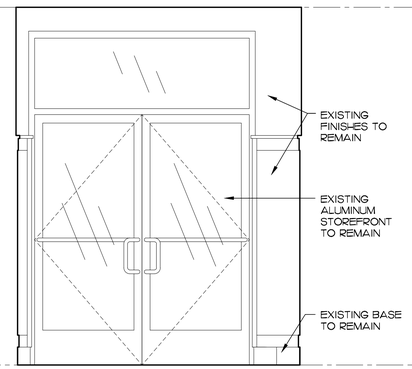
VERSION:
ISSUE DATE:

Job No. : 20-3560.16
Store : 2859
Date : 03.25.20
Drawn By : KS
Checked By: TAP

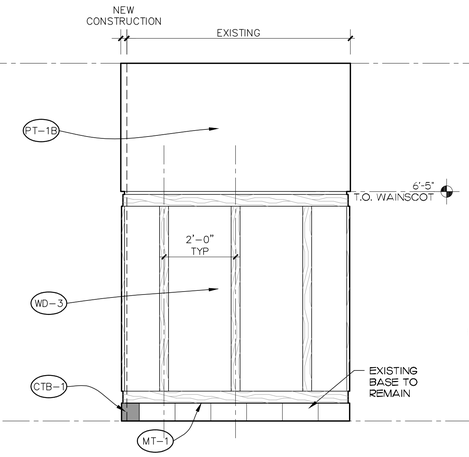
Sheet
A-1.3



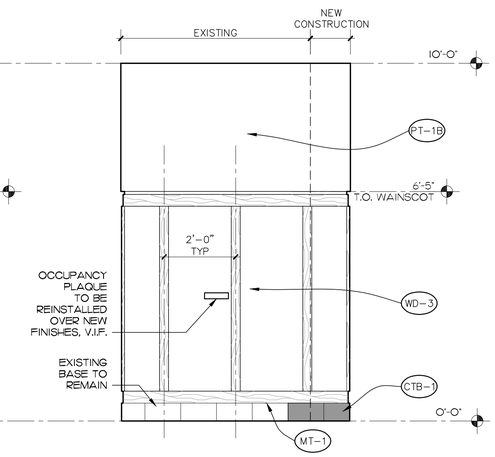
4 ENTRY VESTIBULE
1/2"= 1'-0"



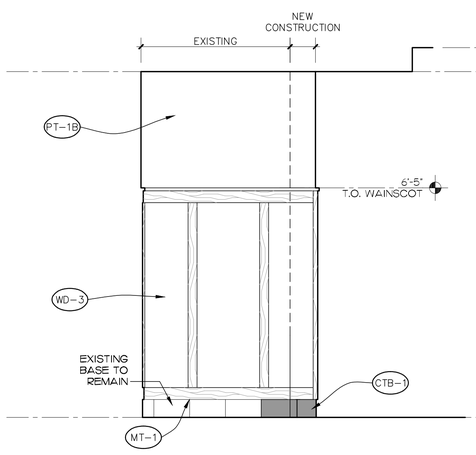
3 ENTRY VESTIBULE
1/2"= 1'-0"



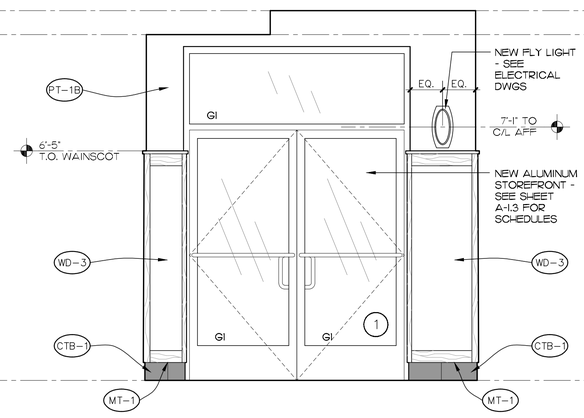
2 ENTRY VESTIBULE
1/2"= 1'-0"



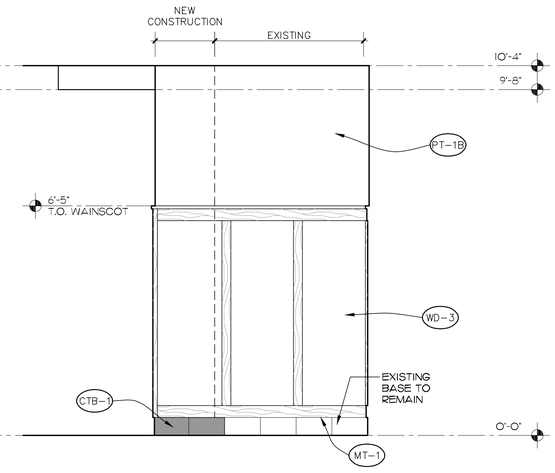
1 ENTRY VESTIBULE
1/2"= 1'-0"



7 DINING 'B'
1/2"= 1'-0"



6 DINING 'A'
1/2"= 1'-0"



5 DINING 'A'
1/2"= 1'-0"

GENERAL NOTES:
1. DIMENSIONS ARE FROM THE FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
2. COORDINATE WITH ALWAYS FRESH SCOPE OF WORK FOR ALL GRAPHIC IMAGE LOCATIONS

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Chick-fil-A
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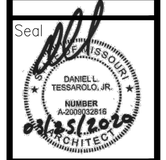
Seal



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SHEET TITLE
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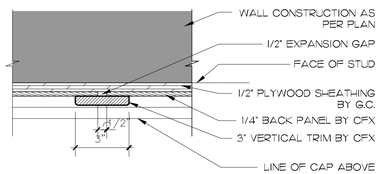
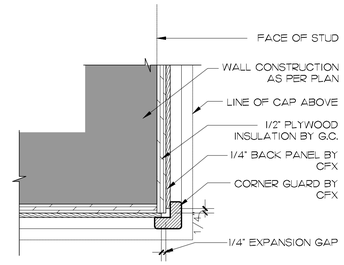
Sheet
A-2.1



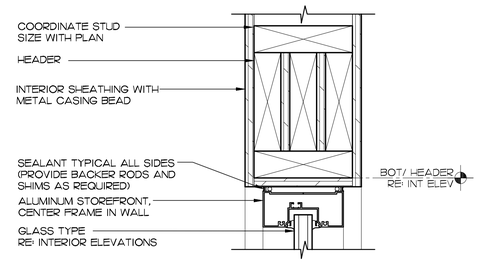
6 WAINSCOTING TRIM DETAIL

SCALE: 3" = 1'-0"



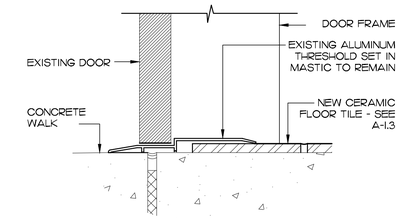
7 WAINSCOTING CORNER DETAIL

SCALE: 3" = 1'-0"



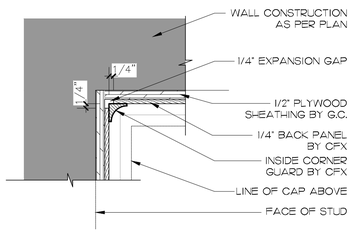
2 TYPICAL INTERIOR STOREFRONT HEAD

3"= 1'-0"



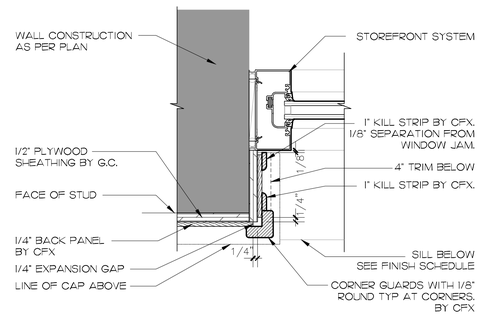
1 TYP EXTERIOR DOOR THRESHOLD

3"=1'-0"



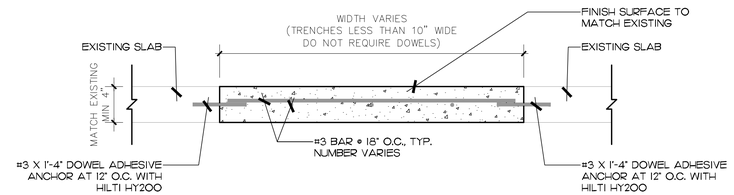
8 WAINSCOTING CORNER DETAIL

SCALE: 3" = 1'-0"



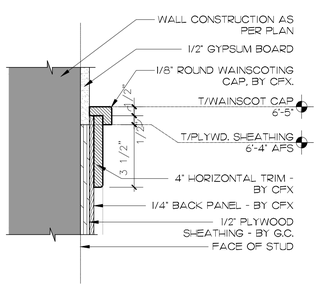
9 WAINSCOTING AT STOREFRONT

SCALE: 3" = 1'-0"



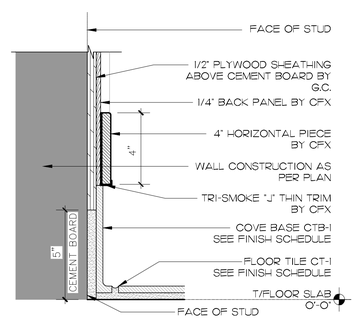
3 DOWEL DETAIL

1-1/2"= 1'-0"



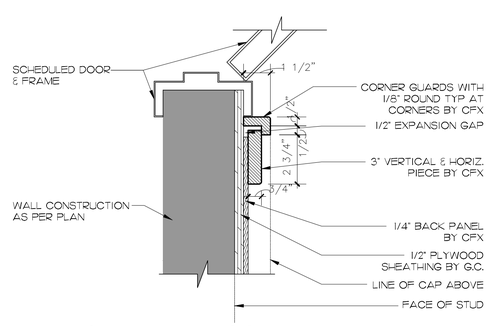
10 WAINSCOTING CAP DETAIL

SCALE: 3" = 1'-0"



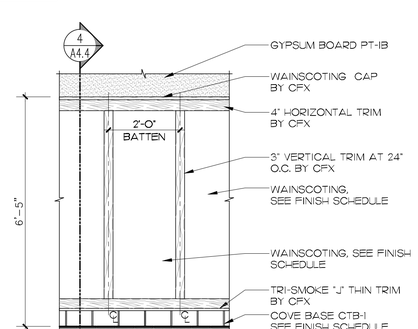
11 WAINSCOTING BASE DETAIL

SCALE: 3" = 1'-0"



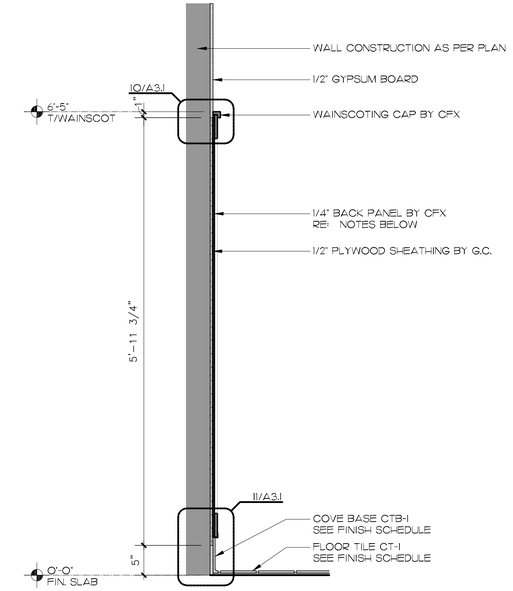
12 WAINSCOTING AT DOOR JAMB

SCALE: 3" = 1'-0"



5 TYPICAL WAINSCOTING ELEVATION

SCALE: 1/2" = 1'-0"



GENERAL NOTE:

WAINSCOTING MATERIAL BY CFX/ G.C. TO ORDER FROM CFX & INSTALL:

1. UREA-FREE 1/4" PLYWOOD BACK PANEL (WHITE OAK, PLAIN CUT WITH LUAN CORE)
2. SOLID STOCK TO BE WHITE OAK (STAINED GRIFFIN LIGHT WITH GLAZE)
3. APPLY LOW-VOC SEALER TO BACK SIDE (STUD-SIDE) OF PLYWOOD SUBSTRATE- FULL HEIGHT. USE SEALER TYPE SHERWIN WILLIAMS HI-SOLIDS POLYURETHANE B65-W300 OR EQUAL.

4 WALL SECTION AT WAINSCOTING

SCALE: 1" = 1'-0"

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PW2024-0123

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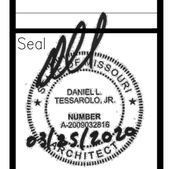

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF LEE'S SUMMIT, MO RELATING TO STRUCTURES AND BUILDINGS.

CHIPMAN DESIGN ARCHITECTURE INC
1350 E TOUHY AVE.
DES PLAINES, IL 60018
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STORE #2859
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SHEET TITLE
SECTIONS AND DETAILS

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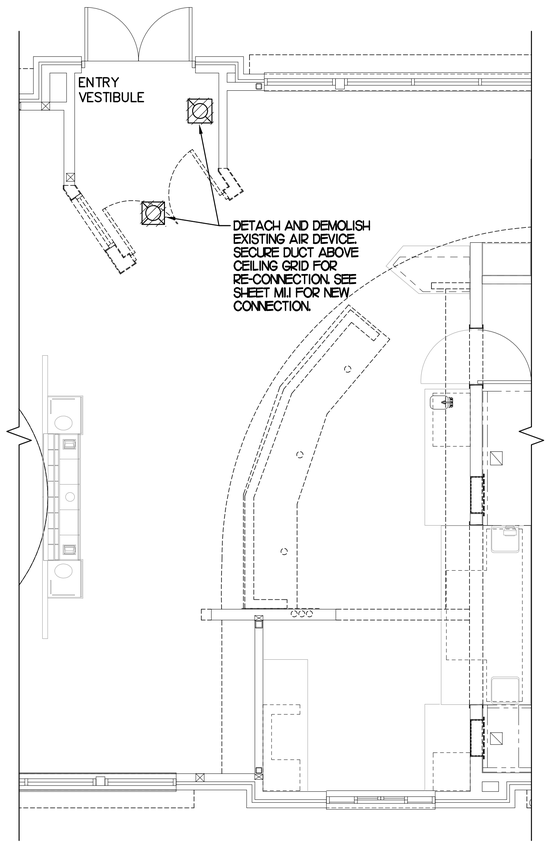
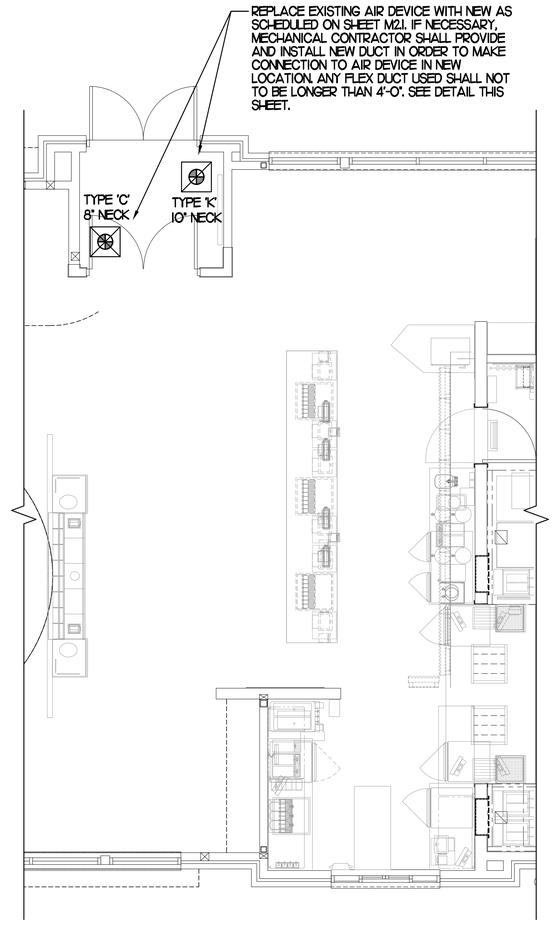
A-3.1



1 MECHANICAL DEMOLITION FLOOR PLAN

SCALE: 1/4"=1'-0"



2 NEW MECHANICAL FLOOR PLAN

SCALE: 1/4"=1'-0"

DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
2. DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
3. MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ALL RTUS AT END OF PROJECT AND PRIOR TO REOPENING. MC TO PROVIDE PROPOSAL TO FACILITIES MANAGER, CONSTRUCTION MANAGER, AND OPERATOR TO CORRECT EXISTING RTU PUNCH ITEMS IDENTIFIED BY HALTON.

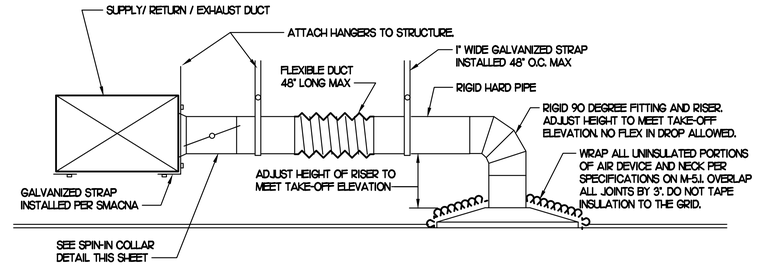
NEW MECH PLAN NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY DESIGN TEAM WITHOUT DELAY IF ACTUAL LOCATION OF EXISTING MECHANICAL EQUIPMENT DOES NOT MATCH FLOOR PLAN.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM
⊕	POINT OF CONNECTION TO EXISTING
	EXISTING AIR DEVICE TO BE DEMO
	EXISTING RETURN/EXHAUST (TYP.)
	EXISTING SUPPLY DIFFUSER (TYP.)

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND AIR DEVICES. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.



1 SAG/RAG/GRILLE TAKE-OFF

NO SCALE

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	20X20	BEVELLED	1,2,3
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	ENTRYS	14X14	17X17	SURFACE	1,2,3
REMARKS	1. STANDARD OFF WHITE FINISH. 2. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY. 3. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL THIS SHEET.					

2. SECTION C15000 - MECHANICAL SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.

C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.02 DUCTWORK (C15735)

A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.

B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).

C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.

D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.

E. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

G. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

H. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

I. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M1.1.

J. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.

K. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

L. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

M. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

N. RADIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO; R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

O. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

PART III - EXECUTION

3.01 SCOPE

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

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STORE #2859
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SHEET TITLE
MECHANICAL PLAN

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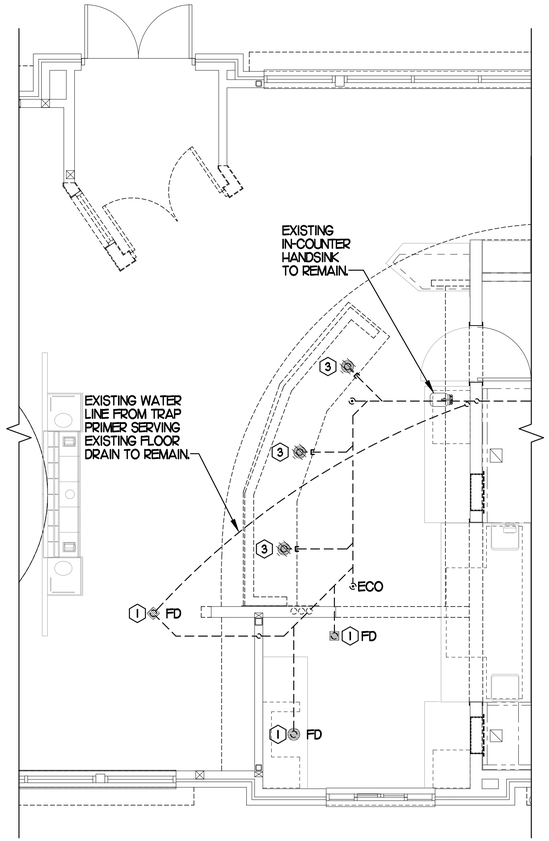
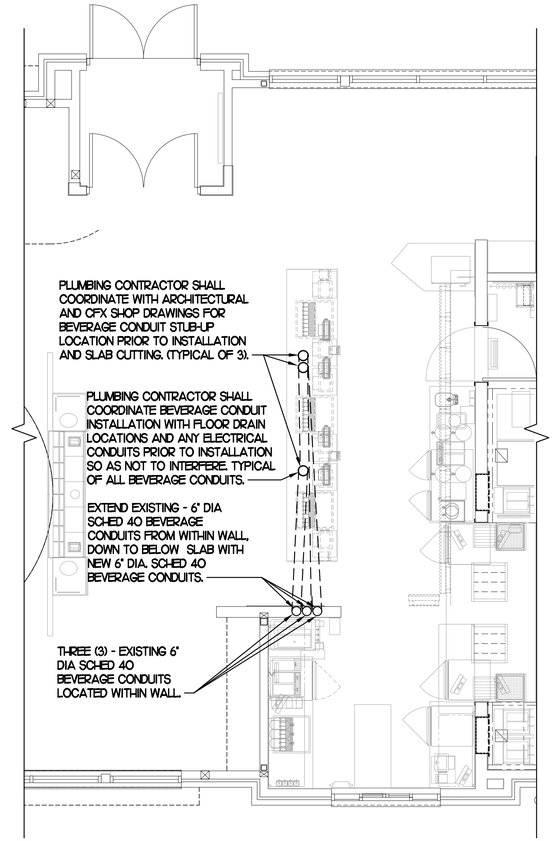


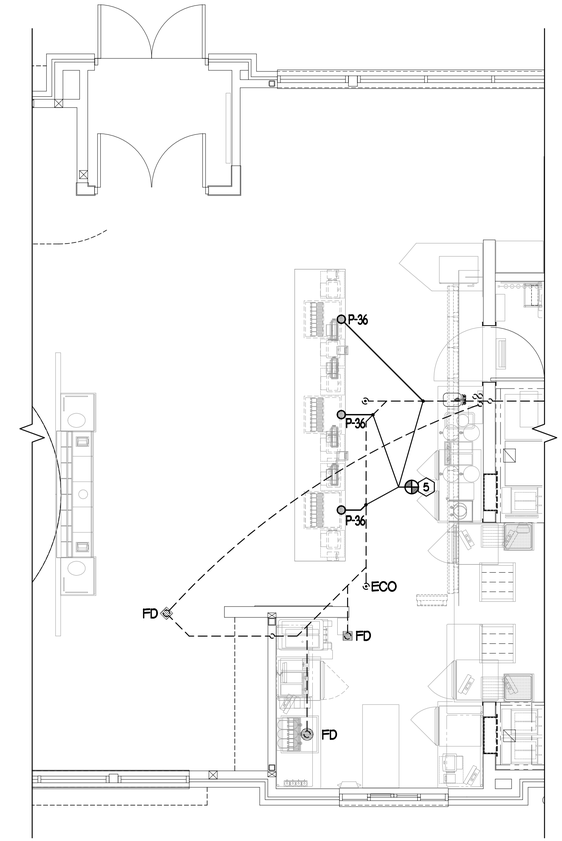
1 BELOW SLAB PLUMBING DEMOLITION PLAN

SCALE: 1/4"=1'-0"



2 BEVERAGE CONDUIT PIPING PLAN

SCALE: 1/4"=1'-0"



3 BELOW SLAB NEW PLUMBING PLAN

SCALE: 1/4"=1'-0"

SHEET NOTES

1. VERIFY IF EXISTING SLAB IS A POST TENSION TYPE. CONTRACTOR IS REQUIRED TO PERFORM GROUND PENETRATING RADAR (GPR) TEST ON THE FLOOR PRIOR TO CUTTING FLOOR FOR KITCHEN DRAIN RELOCATIONS.
2. LOCATIONS OF WASTE LINES, VENTS, CW LINES & OTHER UNDER AND ABOVE GROUND ITEMS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND THEIR ACTUAL LOCATION MAY VARY SIGNIFICANTLY. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION, FALL, DIRECTION OF FLOW AND CONNECTING INVERTS, PRIOR TO COMMENCING WORK. NOTIFY CHICK-FIL-A CONSTRUCTION REPRESENTATIVE IF EXISTING MAJOR DISCREPANCIES IN ROUTING OF SERVICE LINES ARE DISCOVERED IN FIELD.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE DURING BID PHASE, WITH EXISTING DRAWINGS PROVIDED BY THE OWNER, IN ORDER TO DETERMINE THE TRUE AS-BUILT CONDITIONS OF THE POTABLE WATER, SANITARY WASTE-VENT AND OTHER PIPING SYSTEMS.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, STORING, AND RELOCATING EXISTING PLUMBING EQUIPMENT. PLUMBING CONTRACTOR TO COORDINATE DISCONNECTING OF EXISTING EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.
5. ALL LINES THAT ARE TO BE ABANDONED IN PLACE SHALL BE DEMOLISHED MIN. 6" BELOW SLAB, IN WALL OR ABOVE CEILING AND PLUGGED WATER/AIR TIGHT. ALL AFFECTED ADJACENT SURFACES SHALL BE REPAIRED AND REFINISHED TO MATCH SURROUNDING AREA.
6. VERIFY ALL FIXTURES THAT ARE TO BE REUSED ARE IN GOOD USABLE CONDITION, REPLACE FIXTURE IF DEFICIENCIES ARE FOUND
7. EXCEPT AS NOTED ON PLAN OR DETAILS, ALL NEW OR RELOCATED FLOOR DRAINS SHALL BE INSTALLED CENTERED IN 3 FT. DIAM. 1" DEEP SLAB DEPRESSION.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND LEVELING OF FLOOR DEPRESSIONS IN AREAS WHERE EXISTING FLOOR DRAINS, CLEANOUTS &/OR OTHER FLOOR ITEMS ARE BEING DEMOLISHED, ABANDONED OR RELOCATED.

PIPING LEGEND (This Sheet)

EXISTING FLOOR DRAIN	FD
FLOOR SINK	FS
EXISTING GREASE WASTE (GW)	4"GW
NEW GREASE WASTE (GW)	GW
EXISTING GREASE WASTE (GW)	4"GW
EXISTING WATER UNDER GROUND (CW)	CW
NEW WATER UNDER GROUND (CW, HW, TW OR FW/FW2)	CW
POINT OF CONNECTION	
FLOOR DRAIN	
FLOOR/EXTERIOR CLEANOUT	
EXISTING LINE/FIXTURE TO BE DEMOLISHED	
EXISTING WATER LINE(S) IN WALL TO BE DEMO'D	

FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"

NOTES: (1) PROVIDE CONNECTIONS TO FIXTURES AS LISTED IN THIS SCHEDULE UNLESS SHOWN OTHERWISE ON PLANS, SCHEMES OR DETAILS.

KEY NOTES

1. EXISTING FLOOR FIXTURE TO REMAIN. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURE IS CLEAR AND USABLE AND TRAP PRIMER (IF EXISTING) IS WORKING PROPERLY. IF DEFICIENCIES FOUND IN FIELD, REPLACE PRIMER &/OR WATER SUPPLY LINE OR REPLACE FIXTURE AS NECESSARY.
2. EXISTING VENT TO REMAIN IN WALL.
3. DEMOLISH EXISTING FLOOR FIXTURE OR ABOVE SLAB FIXTURE, PREPARE LINES FOR CONNECTION OF NEW FIXTURE OR EXTENSION. REFER TO P1.1. COORDINATE WORK WITH G.C. IF FLOOR DRAIN IS DEMOLISHED, IF EXISTING, CAP WATER LINE FROM TRAP PRIMER.
4. PLUMBING CONTRACTOR SHALL VERIFY WORKING ORDER OF EXISTING TRAP PRIMER LOCATED BELOW COUNTER AND REPLACE IF EXISTING PRIMER IS NOT IN WORKING ORDER. IF APPLICABLE, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY UNDERSLAB WATER PIPING SERVING PLUMBING FIXTURES TO REMAIN SERVICEABLE UNLESS NOTED OTHERWISE.
5. CONNECT NEW WASTE LINE TO EXISTING AS SHOWN. VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS. PROVIDE VENT CONNECTION TO EXISTING SYSTEM WHERE APPLICABLE.

BEVERAGE CONDUIT NOTES

1. REUSE EXISTING BEVERAGE CONDUITS OR THEIR PORTIONS WHERE INDICATED ON DRAWINGS. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN 6" SCH 40 PVC CONDUITS. ALL CONDUITS SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-1.1 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. FOR BEVERAGE CONDUIT DROPS AT WALL WITH SHEATHING ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.

PLUMBING FIXTURES

PLUMBING (C15100)

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3"): JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 2110-HP-NB, (WTS) FD103-A8-60, (ZRN) FR08NIP3S-C.

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03/30/2021

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SHEET TITLE
PLUMBING PLAN

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I. SECTION C15100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE RESTRICTIVE OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE 'K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. U.N.O., ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE ½" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM ¼" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

O. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

P. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II -EXECUTION (C15100)

2.01 TRENCHING (C15100)

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT ¼" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. B.ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
PROFESSIONAL SERVICES
LEE'S SUMMIT, MISSOURI
03/30/2021

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△	03.25.20	ISSUED FOR PERMIT

Seal

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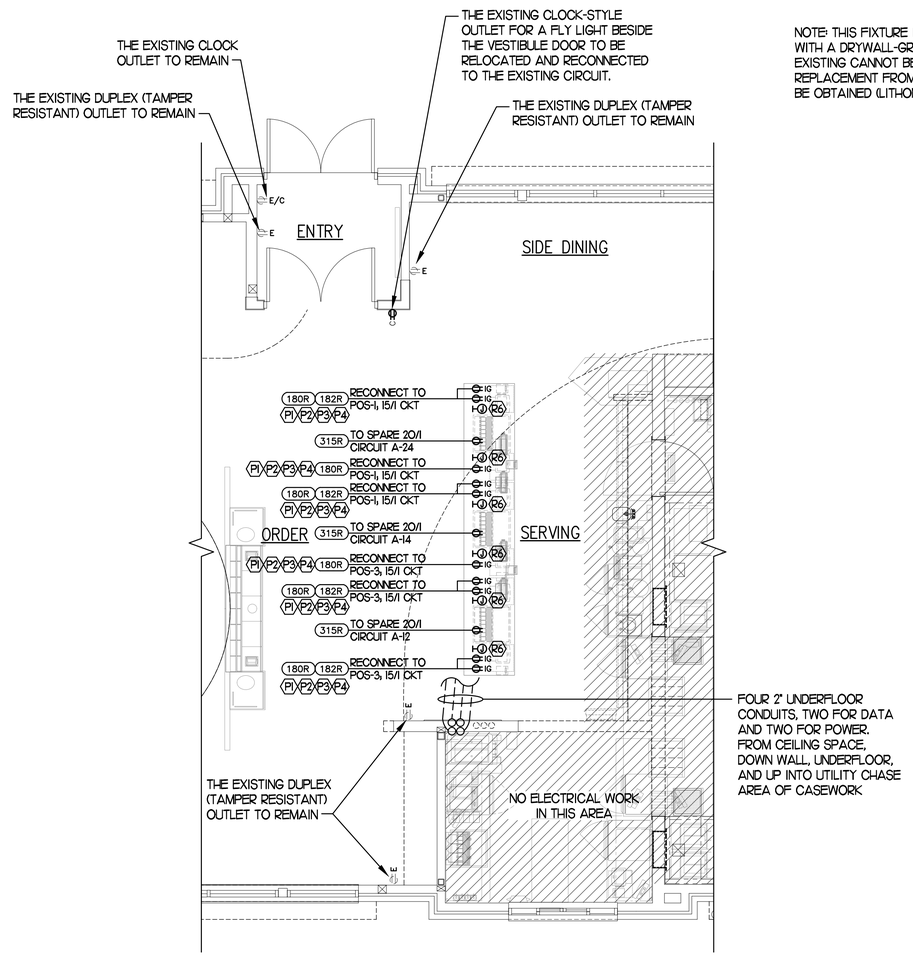
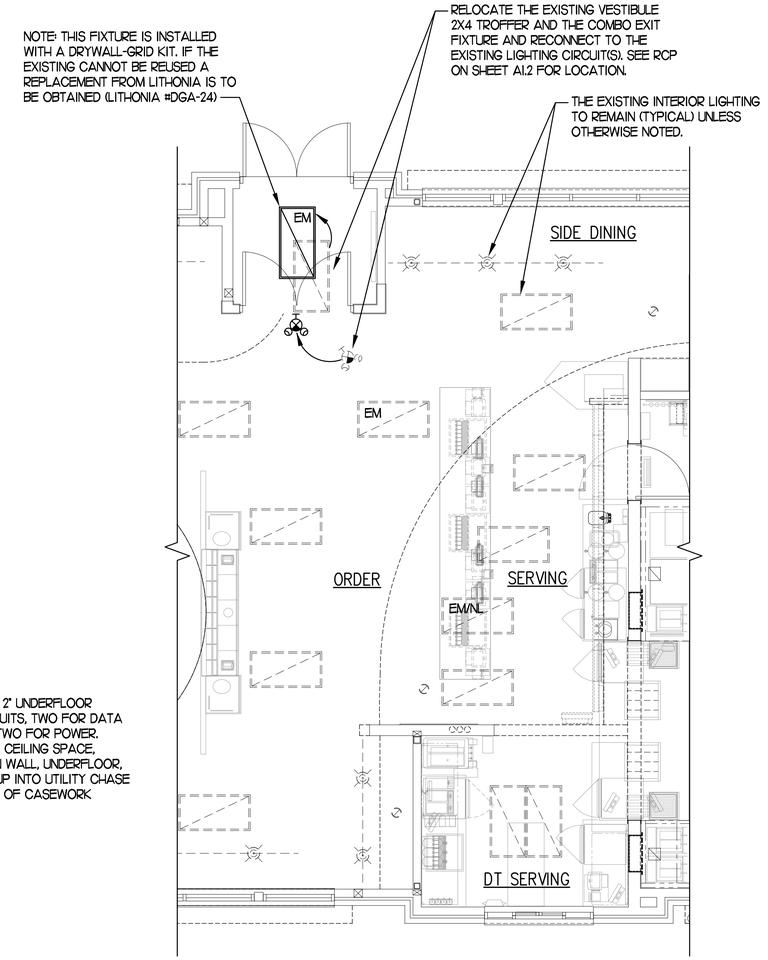


2 POWER PLAN

SCALE: 1/4"=1'-0"



1 LIGHTING PLAN

SCALE: 1/4"=1'-0"

4 KEY NOTES - POS POWER:

P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

P2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.

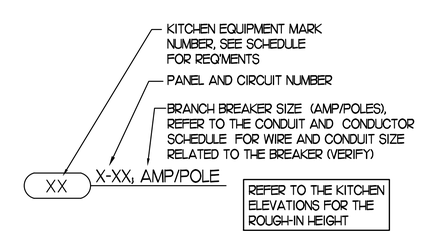
P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISO GRD. EACH 15A HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

P4 THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

5 KEY NOTES - POS SYSTEM:

R6 PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS AND PHOTOS OF EXISTING PANEL SCHEDULES. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. **FIELD VERIFY ALL EXISTING CONDITIONS.**



3 KITCHEN EQUIP NOMENCLATURE

NO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
PROFESSIONAL SERVICES
LEE'S SUMMIT, MISSOURI
03/25/2021

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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△		
△		

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SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.

B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.

C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches

B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.

C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101
BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.

B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

B. Drawings are diagramatic and shall not be scaled for exact sizes or locations, they are not intended to disclose absolute or unconditional knowledge of actual field conditions.

C. Protect work and materials from damage by weather, entrance of water and dirt. cap conduit during installation. Avoid damage to materials and equipment in place.

D. Satisfactorily repair or remove and replace damaged work with new materials. Deliver equipment and materials to job site in original, unopened, labeled containers. Store ferrous materials to prevent rusting. Store finished materials and equipment to prevent staining and discoloring.

E. Trenches shall be excavated 6" below elevation of bottom of conduit.

F. Failure to route conduit through building without interfering with other equipment and construction shall not constitute a reason for an extra charge. Equipment, conduit and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure. Equipment requiring service shall be readily accessible.

3.02 TESTING AND EQUIPMENT SERVICING
A. Make test to ensure that entire system is in proper operating condition, and that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS
A. Remove surplus materials and debris caused by, or incidental to, electrical worK. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT
A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION
A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY
A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120
RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS System). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.

1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.

1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.

B. Length shall not exceed 6 feet in accessible ceiling areas.

C. Shall not be concealed in walls.

D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.

E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocked galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.

C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive-Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.

B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.

C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.

D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.

E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.

F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O" ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.

H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.

I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY
A. Use threaded fittings for all connectors and adapters.

E. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

F. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing materiaL, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)

B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121
CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.

C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.

D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.

B. Make all splices or connections only at outlet, pull or junction boxes.

C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.

D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.

E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.

G. Leave a minimum of 8" slack wire in every outlet box.

H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.

I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.

J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.

B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES
A. Sheet metal outlet boxes: galvanized steel.

B. Cast boxes: type FS, cast feralloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, OR Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123
GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES
A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS
A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to grounded neutral bus in main distribution panel.

F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/13/2021

5200 Buffington Rd.
Atlanta Georgia,
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Revisions:

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SHEET TITLE
ELECTRICAL SPECIFICATIONS

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E2.1

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS

A. Supporting devices and hangers shall be manufactured by RACO Fasteners, or approved equivalent.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music/communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES

a. Shall be purchased from the National Accounts Vendor indicated on the plans.

B. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

C. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
1.Single pole toggle switches:
20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining)
20 AMP Pilot lights illuminated with load on - #AH1221-PL
2.Double pole toggle switches:
20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

1.02 RECEPTACLES

A. Shall be purchased from the National Accounts Vendor indicated on the plans.

B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices (grey device color in Kitchen, brown device color in Dining, and orange for IG type) to be 20 amp, 125 volts, a.c. receptacles:
Single (simplex) device: #1877-GY (Kitchen) or #1877-B (Dining)
Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)
Tamper Resistant duplex: #TR8200-B (Vestibules & Play Area)
Tamper Resistant USB Charger duplex: #TR7746-B (Dining)
GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
IG (isolated ground) duplex device: #IG5362-RN (orange face)

1.03 SPECIAL DEVICES

A. Manual motor starter switch: SQ. D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES

A. Provide Cooper/Arrow Hart, or approved equal, smooth satin stainless steel 302-SS series for switches and receptacles in the Kitchen areas. All other areas shall be brown Nylon plastic.

B. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

C. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WIU-1.

D. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

E. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting
1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
3. Install switches with off position down.
4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
5. Use jumbo sized plates for outlets installed in masonry walls.
6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing
1. Test each switch and verify proper operation with energized circuit.
2. Test each receptacle for proper polarity on energized circuit.
3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)

A. Square-D (Atlantic and Southeast Regions): from Accu-Serv, Bob Harpring (502)961-0096.

B. Square-D (West, Southwest, Midwest, and Northeast Regions): from Villa Lighting, Dave Christanell (800)325-0963.

1.02 PANELBOARD FEATURES

A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

B. Bus bars shall be copper or tin plated aluminum.

C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

I. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

C. Provide blank filler plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES

PART 1 - PRODUCTS

1.01 MANUFACTURERS
A. Square D.
B. General Electric.
C. Siemens

1.02 ENCLOSED SWITCHES

A. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.

B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION

A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.

B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.

C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Furnish service entrance conduit, cable, and miscellaneous hardware as required by plans and specifications for electrical service entrance and system grounding at main electrical service.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.

B. Ensure pad mounted transformer is not located within roadway or sidewalk.

C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
1. Concrete pad for utility transformer with required dimensions and details.
2. Primary underground conduit, excavation, and backfill requirements.
3. Pay for all fees associated with establishment of electrical service.
4. Furnish list of loads to the electrical utility company serving the facility.
5. Verify that utility company clearances are provided on all sides of utility equipment.

D. Ensure proper access to utility equipment is maintained.

E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required. cap spare conduits 12 inches above grade with plumbers pipe cap.

F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS

A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor for the region of the project (verify region designation with Owner's Representative):

1. Accu-Serv Lighting - Atlantic region and Southeast region. Contact at Accu-Serv: Bob Harpring at 877-707-7378, fax - 502-961-0357, email - bharpring@accu-serv.com

2. Villa Lighting - Northeast region, Midwest region, Southwest region, and West region. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - dave.christanell@villalighting.com

B. Ballasts to be electronic ballast provided with lighting fixture by the manufacturer.

A. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.

1.02 FIXTURE REQUIREMENTS

A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.

B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.

D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.

E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.

F. Energy saving ballasts and energy saving lamps provided shall be compatable for operation together.

G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.

H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS

A. Lighting contactors shall be Square-D, General Electric, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS

A. BAtteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

G. Install accessories furnished with each fixture.

H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.

3.02 FIELD QUALITY CONTROL

A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Furnish and install raceway system for music/communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Interior system equipment will be furnished by Owner's Vendor.

C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Cable shall be in conduit where installed in walls or inaccessible ceilings.

C. Minimum conduit size shall be 3/4".

PART 3 - EXECUTION

3.01 INSTALLATION

A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

B. Provide one #10 equivalent nylon pull wire in each system empty conduit.

C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.

E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Provide underground PVC, Schedule 40, service conduit as required by plans.

C. Telephone Utility Company will provide service entrance cable.

D. Interior telephone system will be furnished by owner's vendor.

E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Minimum conduit size shall be 3/4".

C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

E. Terminate each conduit stub-up or termination with nylon insulated bushings.

F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.

2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.

3. Names and addresses of at least one qualified service agency.

4. A complete narrative of how each system is intended to operate.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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STORE #2859
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SHEET TITLE
ELECTRICAL SPECIFICATIONS

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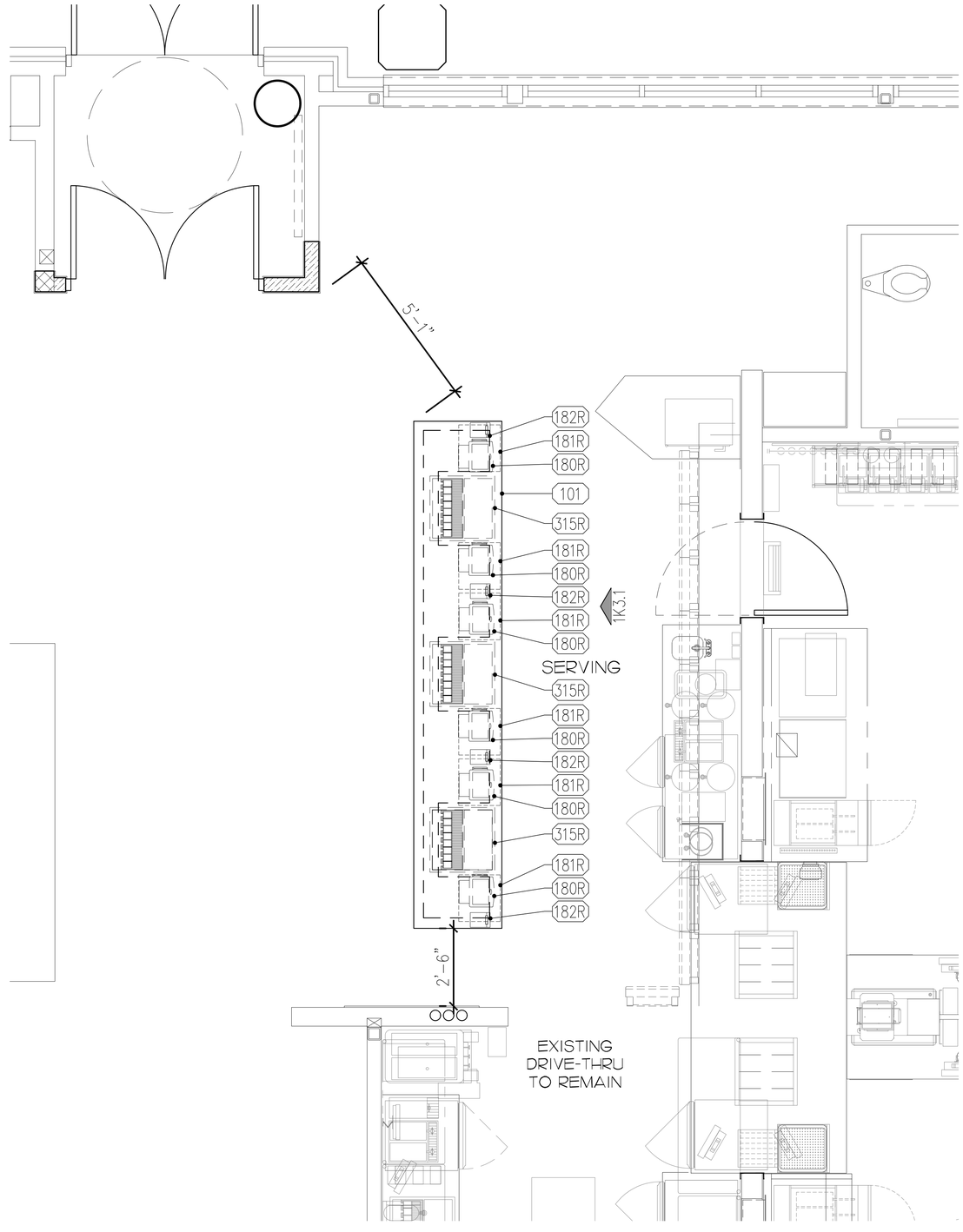

1 PARTIAL EQUIPMENT PLAN - SERVING/DRIVE THRU

1/2"=1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date: 03/25/2020

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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SHEET TITLE
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VERSION:
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Store : 2859
Date : 01.14.19
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Checked By: JBS

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ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	MECHANICAL												ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				ELECTRICAL						PLUMBING							
				VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	FW	FW2	IW	ROUGH-IN		
101	1	SERVING COUNTER	CLAYTON FIXTURE													101	REFER TO MANUFACTURER SHOP DRAWINGS
180R	6	ORDER REGISTER	EQUIPMENT TO BE REUSED/RELOCATED	VERIFY	VER		VERIFY		VERIFY							180R	
181R	6	CASH DRAWER	EQUIPMENT TO BE REUSED/RELOCATED													181R	
182R	4	RECEIPT PRINTER	EQUIPMENT TO BE REUSED/RELOCATED	VERIFY	VER		VERIFY		VERIFY							182R	
315R	3	8-HEAD DRINK TOWER/ICE BIN	EQUIPMENT TO BE REUSED/RELOCATED	VERIFY	VER		VERIFY		VERIFY							315R	

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
03/25/2020

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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STORE #2859
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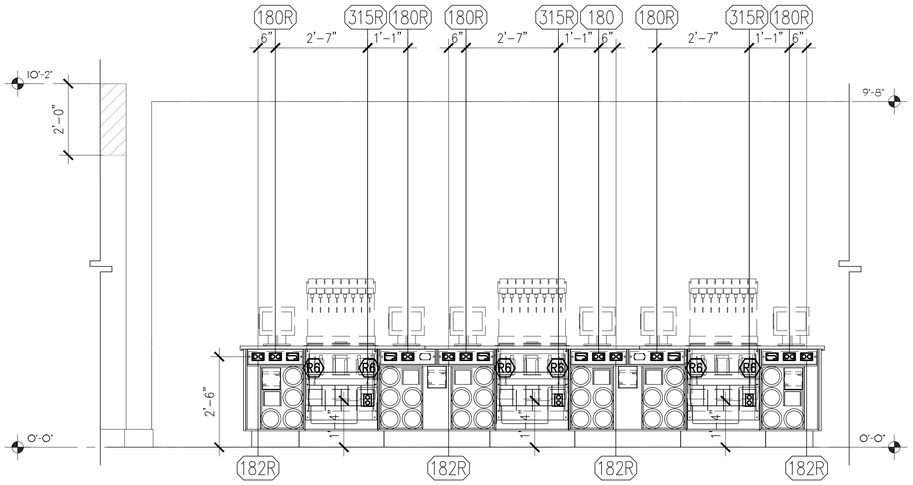

1 **SERVING**
1/2"= 1'-0"

ELECTRICAL LEGEND

XXX	EQUIPMENT NUMBER
XX	INDICATES NOTE ON E-SHEETS
J	JUNCTION BOX
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	PHONE
	SWITCH
	QUADRUPLEX RECEPTACLE
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEPARTMENT SERVICES
LEE'S SUMMIT, MISSOURI
Date 03/25/2020

Chick-fil-A
5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△	03.25.20	ISSUED FOR PERMIT
△		
△		

Seal

TriMark
Foodservice Equipment, Supplies and Design
STRATEGIC

3011 Industrial Parkway East
Knoxville, Tennessee 37921
Phone (865) 637-2525
Fax (865) 522-4448

STORE #2859
LEE'S SUMMIT FSU

690 NW BLUE PKWY
LEE'S SUMMIT,
MO 64086

SHEET TITLE
ELECTRICAL ROUGH-IN ELEVATIONS

VERSION:
ISSUE DATE:

Job No. : 20-3560.16
Store : 2859
Date : 01.14.19
Drawn By : CYN
Checked By: JBS

Sheet
K-3.1