2153206

MASTER DRAWING

3/4" = 1'-0"

HD1

HOOD INFORMATION Job#2153206 NO. TAG RISER(S) HOOD MODEL LENGTH COOKING TOTAL MUA CFM AC CFM END TO CONSTRUCTION ROW TEMP. EXH. CFM | WIDTH | LENG. | DIA. | CFM | S.P. END 1462 -0.728" 13' 0.00" 10" 14" 600 Deg. 2925 1775 ALONE ALONE 1462 -0.728" 10" 14" ND-2-ACPSP-F Where Exposed

HOOD

IMEO	DMATI	OM		FILTER(S)	)			LIGHT(S)				UTILITY CAI	BINET(S)		FIRE	HOOD
HOOD	TAG	ON							WIRE		F	IRE SYSTEM	ELECTRICAL	SWITCHES		HANGING
NO.		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	G QTY.	TYPE	GUARD	LOCATION	TYPE	SIZE	MODEL#	QUANTITY	PIPING	WGHT
1		Captrate Solo Filter	9	16"	16"	93% See Filter Spec.	9	L55 Series E26	NO	Right	Ansul R102	3.0/1.5	SC-311110FP	1 Light	YES	914 LBS
										<b>J</b>				1 Fan		

HOOD

HØØÐ/N/Q	D/VAG	OPTION
1		FIELD WRAPPER 18.00" High Front, Left, Right
		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		INSULATION FOR BACK OF HOOD

PERFORATED SUPPLY

$R_{H}\delta\delta_{D}$	IIIM(S	)						F	RISER(S)		
NO.	UM(S TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	168"	22"	6"	MUA	10"	16"		443	0.165"
						MUA	10"	16"		443	0.165"
						MUA	10"	16"		443	0.165"
						MUA	10"	16"		443	0.165"
						AC			8"	99	0.032"
						AC			8"	99	0.032"
						AC			8"	99	0.032"
						AC			8"	99	0.032"
						AC			8"	99	0.032"
						AC			8"	99	0.032"
						AC			8"	99	0.032"

CAPTIVE-AIRE HOODS ARE **BUILT IN COMPLIANCE WITH** 

UL 710 AND NFPA 96

AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED

ETL LISTED FILE# 3054804-001

### SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

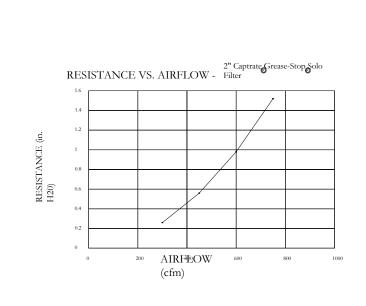
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.
FILTER COLLECTION 2" Captrate Grease-Stop Solo

EFFICIENCY



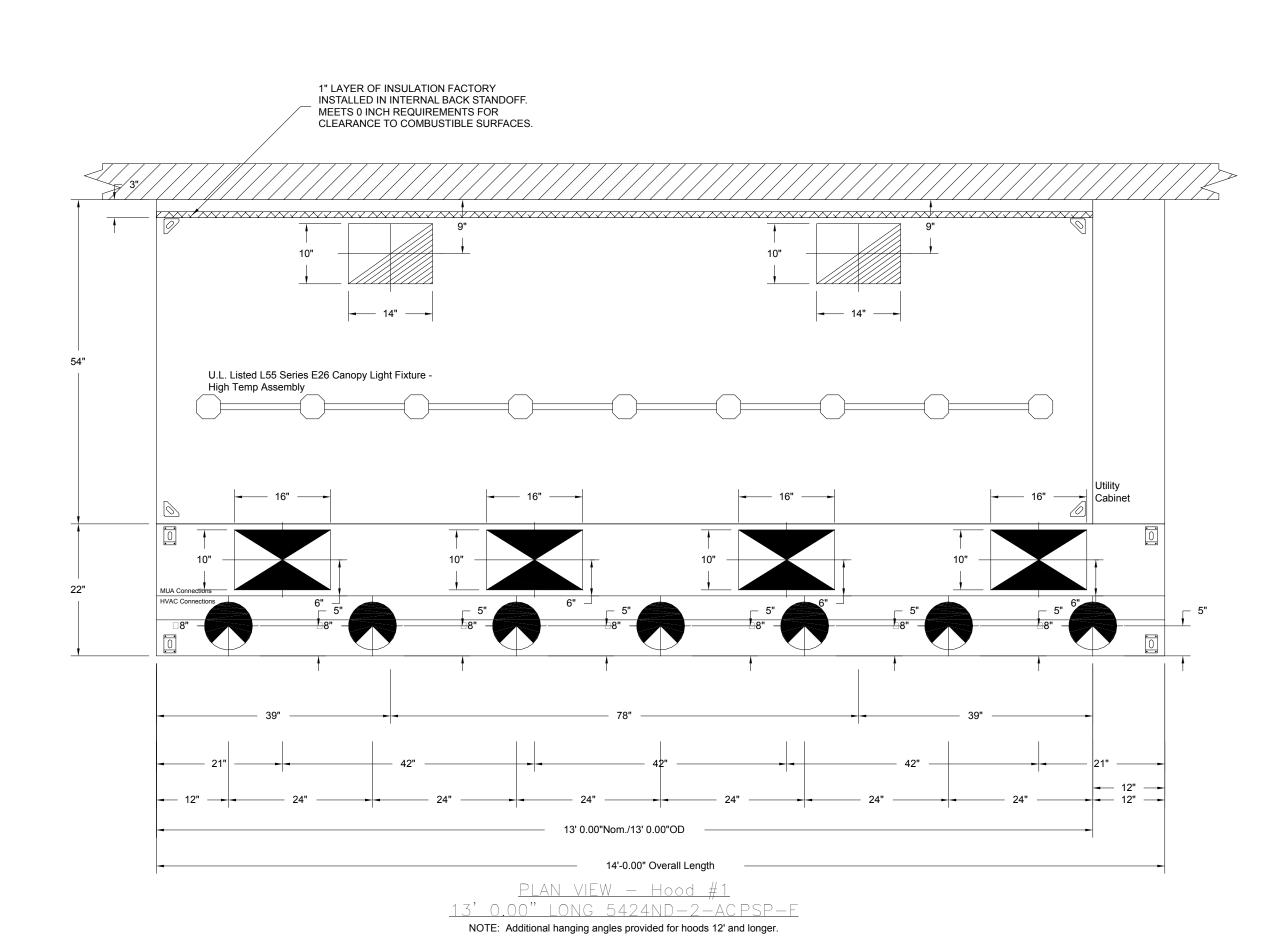
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:. NFPA #96 NSF STANDARD #2 UL STANDARD #1046 INT. MECH. CODE (IMC)

PARTICLE DIAMETER

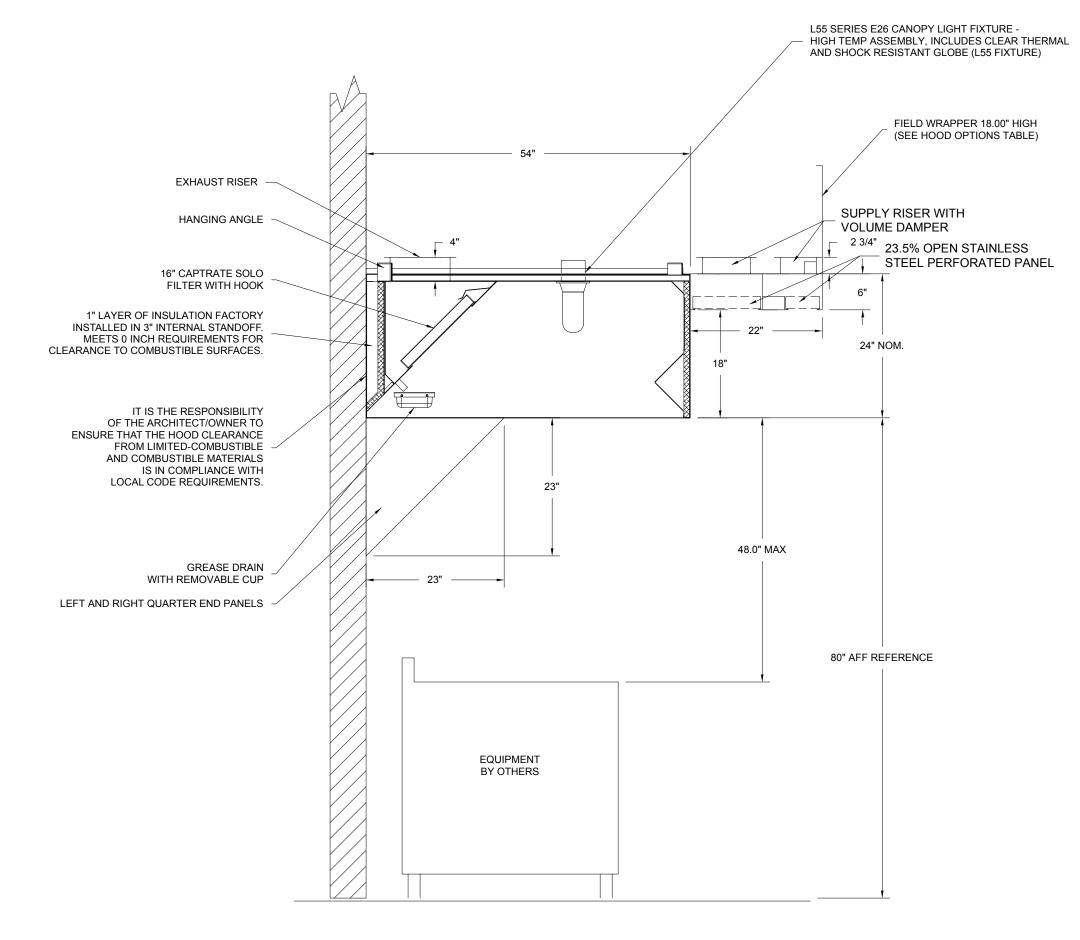








ACPSP ships loose for field installation



<u>SECTION VIEW - MODEL</u> <u>5424NHQQDACPSP-F</u>

<u># 1</u>

### FAN #1 NCA24HPFA - EXHAUST FAN (EF-1)

37 1/2

EXHA	UST	FAN INFORMATION -									
JEAN UNIT NO.	21,532 TAG	06 FAN UNIT MODEL#	CFM	ESP.	RPM	H.P.		VOLT	FLA	WEIGHT (LBS.)	SONES
1	EF-1	NCA24HPFA	2925	1.200	826	2.000	3	208	6.2	243	12.7
2	EF-2	DR12HFA	150	0.600	1282	0.180	1	115	2.0	42	8

MUA	FAN	INFORMATION -												
JEAN# / UNIT NO.	21532 TAG	06 FAN UNIT MODEL#	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.		VOLT	FLA	WEIGHT (LBS.)	SONES	
3	MAU-1	A1-G10	G10	A1	1775	0.800	911	0.750	3	208	2.7	255	18.7	

FAN	
	т

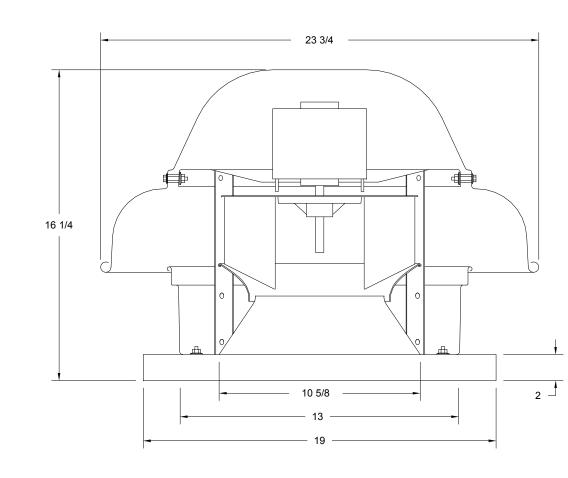
OTANT UNIT NO.	ONS TAG	OPTION (Qty Descr.)
1	EF-1	1 - Grease Box
		1 - Fan Base Ceramic Seal - For Grease Ducts
		1 - Miami Dade Certification.
2	EF-2	1 - I 12-BDD Damper
		1 - Miami Dade Certification.
3	MAU-1	1 - Motorized Backdraft Damper for Size 1 Housing
		1 - Miami Dade Certification.

#### FAN

ACCE FAN UNIT	SSORI.	ES	EXHAUST					
NO.	G	REASE CU	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	TORIZED DAMF	WALL MOUNT
1	EF-1	YES						
2	EF-2							
3	MALI-1						YES	

ASS.	EØNBI FAN	LIES weight	ITEM	SIZE
1	# 1	90 LBS	Curb	31.500"W x 31.500"L x 26.000"H Vented 16 Gauge
2	# 2	51 LBS	Curb	17.500"W x 17.500"L x 26.000"H 16 Gauge
3	# 3	56 LBS	Curb	21.000"W x 21.000"L x 26.000"H 16 Gauge

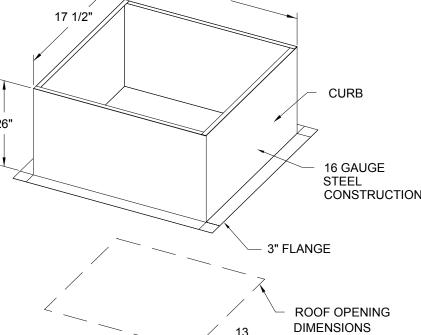
#### FAN #2 DR12HFA - EXHAUST FAN (EF-2)

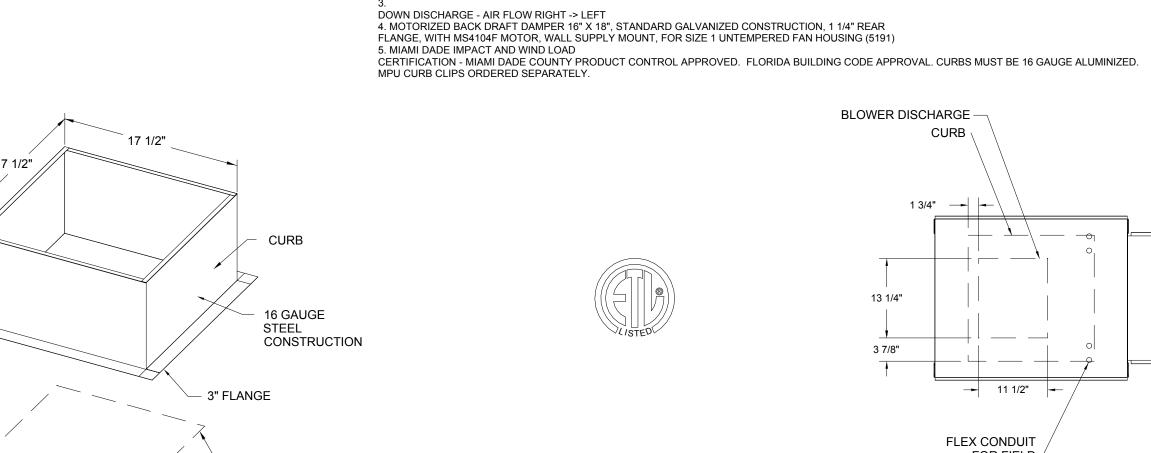


### **FEATURES**:

- ROOF MOUNTED FANS - SAFETY DISCONNECT - STANDARD BIRD SCREEN - SPEED CONTROL

#### <u>OPTIONS</u> I 12-BDD DAMPER MIAMI DADE CERTIFICATION.





43 3/8

23 7/8

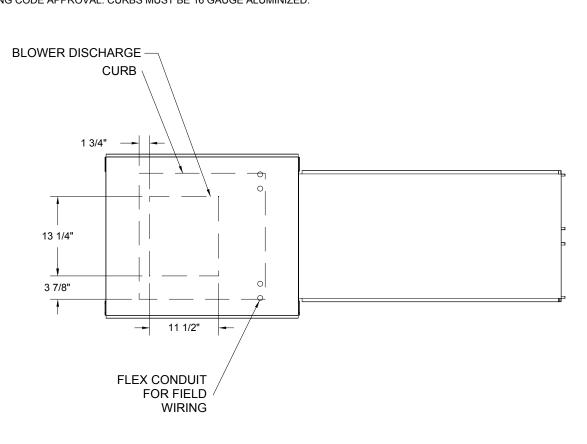
─ DUCTWORK BETWEEN EXHAUST RISER ON HOOD

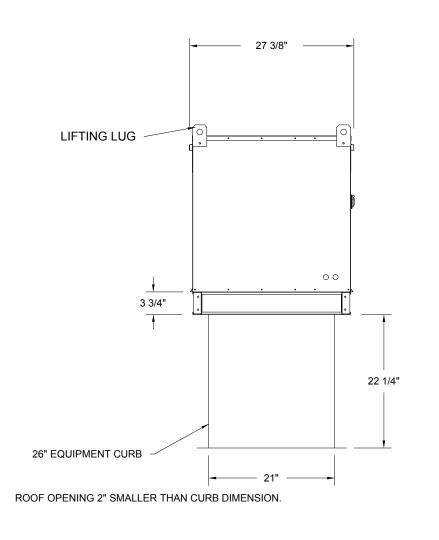
GREASE DRAIN

FAMAEDAF-QNO(BS/UPTLYIER'S)MAU-1)

1. UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING

2. INTAKE HOOD WITH EZ FILTERS





**FEATURES**:

- ROOF MOUNTED FANS - RESTAURANT MODEL - UL705 AND UL762

- AMCA SOUND AND AIR CERTIFIED

- WEATHERPROOF DISCONNECT - HIGH HEAT OPERATION 300°F (149°C) - GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

- WIRING FROM MOTOR TO DISCONNECT SWITCH

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY

DETERIORATING EFFECTS TO THE FAN WHICH

EXHAUST FAN MUST OPERATE CONTINUOUSLY

WHILE EXHAUSTING BURNING GREASE VAPORS

FAN BASE CERAMIC SEAL - FOR GREASE DUCTS
MIAMI DADE CERTIFICATION.

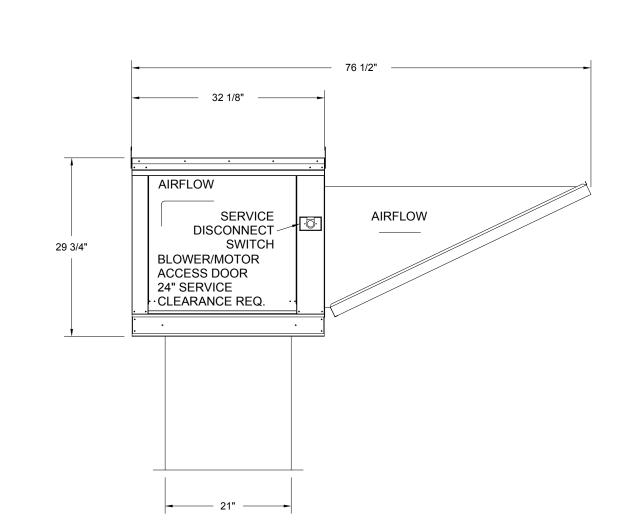
WOULD CAUSE UNSAFE OPERATION.

AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE

ABNORMAL FLARE-UP TEST

AN UNSAFE CONDITION.

<u>OPTIONS</u> GREASE BOX



MIRAMAR 33027 CHIPOTLE

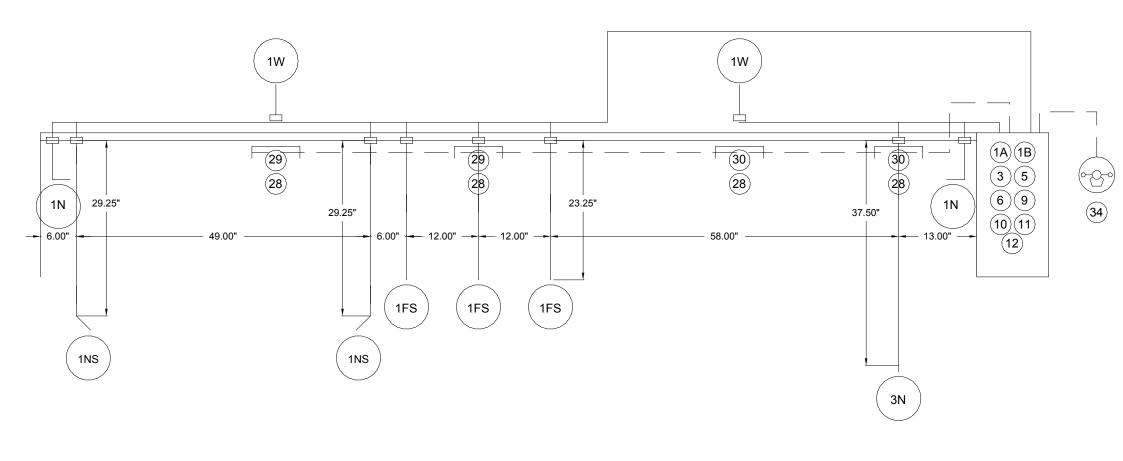
10/14/2014

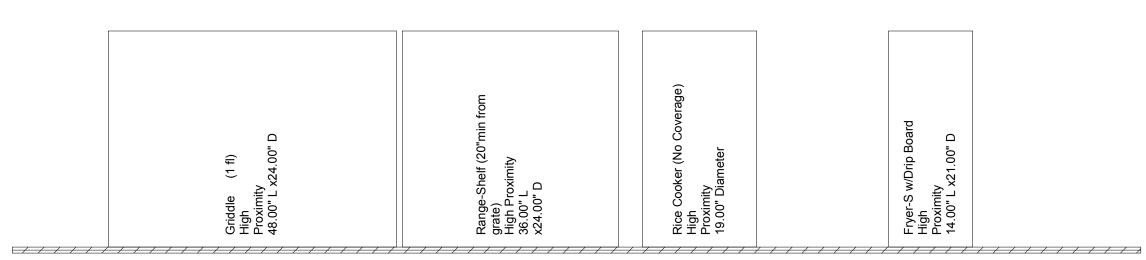
JMB-40

3/4" = 1'-0"

2153206

MASTER DRAWING





Job #: 2153206 Job Name: CHIPOTLE MIRAMAR #2417 Drawn By: CM System Size: ANSUL-3.0/1.5 Total FP required: 12 Hood # 1 13' 0.00" Long x 54" Wide x 24" High Riser # 1 Size: 10" x 14" Riser # 2 Size: 10" x 14"

<u>LEGEND - FIRE CABINET ANSUL</u> SYSTEM

1.5 GALLON TANK

3 GALLON TANK

OEM AUTOMAN RELEASE

OEM REGULATED RELEASE

OEM REGULATED ACTUATOR ANSULEX LIQUID AGENT (3 GAL.)

ANSULEX LIQUID AGENT (1.5 GAL.)

CARTRIDGE (101-20)

CARTRIDGE (101-10)

CARTRIDGE (101-30) CARTRIDGE (LT-A-101-30)

DOUBLE TANK CARTRIDGE

TEST LINK

DOUBLE MICROSWITCH HOSE ASSEMBLY

DUCT NOZZLE (430913)

DUCT NOZZLE (419337) NOZZLE ASSEMBLY (419336)

NOZZLE ASSEMBLY (419333)

NOZZLE ASSEMBLY (419335)

NOZZLE ASSEMBLY (419334) 1/2N

NOZZLE ASSEMBLY (419338) NOZZLE ASSEMBLY (419340)

230 NOZZLE ASSEMBLY (419339)

NOZZLE ASSEMBLY (419343)

NOZZLE ASSEMBLY (419342) NOZZLE ASSEMBLY (419341)

DETECTOR BRACKET

LOW TEMP FUSIBLE LINK HIGH TEMP FUSIBLE LINK

MECHANICAL GAS VALVE

EGV ELECTRICAL GAS VALVE REMOTE MANUAL PULL STATION

SWIVEL ADAPTOR

PLENUM PROTECTION NOZZLE AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST. DUCT PROTECTION NOZZLE DUE TO EQUIPMENT LAYOUT CHANGES. - DETECTOR - FIELD PIPE DROPS AS SHOWN APPLIANCE PROTECTION REMOTE MANUAL SALAMANDERS, ETC. PULL STATION - MAXIMUM 9 ELBOWS IN SUPPLY LINE.

REMOVABLE STAINLESS

STEEL SERVICE DOOR

AGENT TANK

OEM RELEASE/

BRACKET ASSEMBLY

TYPICAL ANSUL R-102 SYSTEM <u>LAYOUT</u>

FAN AND LIGHT

CONTROL PANEL

OPTIONAL PRE-WIRED ELECTRICAL

3-PHASE CONTACTORS AND OVERLOADS (IF APPLICABLE)

TERMINAL BOX WITH TERMINAL STRIPS,

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING

SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS

- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,

- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE. - IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.

- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE

SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

### **SPECIFICATIONS**

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

Fire System Parts List

<u>rure sy</u>	<u>istem</u>	Parts List		
K FIRE SYSTEM NO.	TAG	KEY NUMBER - PART DESCRIPTION	QTY. BY FACTORY	QTY. BY DIST.
1		0 - 0 - 43-15733 AIR CYLINDER ASSEMBLY - Air Cylinder and Tubing for Mechanical Gas Valves (Ansul)	1	0
1		0 - 0 - METALCAP-CB BLOWOFF CAP - Metal	10	0
1		1 - 1 - AT - 1.5 TANK(#1A) - 1.5 Gallon SS Tank (for use with Automan Release, Actuator, or SS Enclosure (UL/ULC))	1	0
1		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 Gallon SS Tank (for use with Automan Release, Actuator, or SS Enclosure (UL/ULC))	1	0
1		3 - 3 - ANS-OEM REGULATED RELEASE - Ansul Regulated Mechanical Release/Bracket Assembly, OEM, R-102	1	0
1		5 - 5 - LIQ-3.0 AGENT - Ansulex Low PH Wet Chemical Agent, 3 Gallon (UL)	0	1
1		6 - 6 - LIQ-1.5 AGENT - Ansulex Low PH Wet Chemical Agent, 1.5 Gallon (UL)	0	1
1		9 - 9 - 101-30 CARTRIDGE - Carbon Dioxide, 101-30, Cartridge (R-102)	0	1
1		10 - 10 - TLINK LINK - Test Link (1 test link)	0	1
1		11 - 11 - MICRO-SDA MICROSWITCH - Single Dual Electric Switch, One Standard Switch, One Alarm Duty Switch 437155	1	0
1		12 - 12 - HOSE HOSE - Rubber Hose	1	0
1		14 - 14 - 419336 NOZZLE - 1W Nozzle, Duct/Appliance (Replaces ANSUL Part# 419347, CAS Part# 419336) A0001266	2	0
1		15 - 15 - 419333 NOZZLE - 1F Nozzle, Appliance (Replaces ANSUL Part # 419344, CAS# 419333) A0001263	3	0
1		16 - 16 - 419335 NOZZLE - 1N Nozzle, Plenum/Appliance (Replaces ANSUL Part# 419346, CAS Part# 419335) A0001265	4	0
1		19 - 19 - 419338 NOZZLE - 3N Nozzle, Appliance (Replaces ANSUL Part# 419349, CAS Part# 419338) A0001268	1	0
1		25 - 25 - 418569 NOZZLE ADAPTOR - Swivel Nozzle Adaptor (Replaces CAS Part # 418569) A0001274	5	0
1		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL)	10	0
1		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" Hood Seal (UL)	1	0
1		28 - 28 - S-DET DETECTOR - Series (Scissor Linkage) NEW#435547/435548 (OLD#417369/434480)	4	0
1		29 - 29 - ANS-360FL FUSIBLE LINK - 360deg F, R-102 and PIRANHA	2	0
1		30 - 30 - ANS-500FL FUSIBLE LINK - 500deg F, R-102 and PIRANHA	2	0
1		34 - 34 - RPS-A REMOTE PULL STATION - Red composite (without wire rope) 434618	1	0
1		35 - 35 - PE-LT PULLEY ELBOW - Low Temp. Pulley Elbow, Set Screw Type	2	0
1		36 - 36 - PE-HT PULLEY ELBOW - High Temp Pulley Elbow, Compression Type	1	0
1		41 - 41 - SN-CHAR SINGLE NOZZLE EXTENDED DROP ASSY	1	0

10/14/2014

2153206

JMB-40

MASTER DRAWING

3/4" = 1'-0"

Job NO.	#2153206 TAG	PACKAGE#	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		TYPE		H.P.	VOLT	FLA	
1		SC-311110FP	Utility Cabinet Right	Utility Cabinet Right	1 Light	Smart Controls Thermostatic Control	Exhaust	3	2.000	208	6.2	
		30-31111011	Offility Cabinet Right	Hood # 1	1 Fan	Smart Controls Thermostatic Control	Supply	3	0.750	208	2.7	

Fire System Information -

ĺ	JFIRE27 SYSTEM	15320		_	FLOW	INSTALLAT	ION
	SYSTEM NO.	Tag	TYPE	SIZE	POINTS	SYSTEM	LOCATION ON HOOD
	1		Ansul R102	3.0/1.5	4	Fire Cabinet Right	Right

SUPPLIED BY

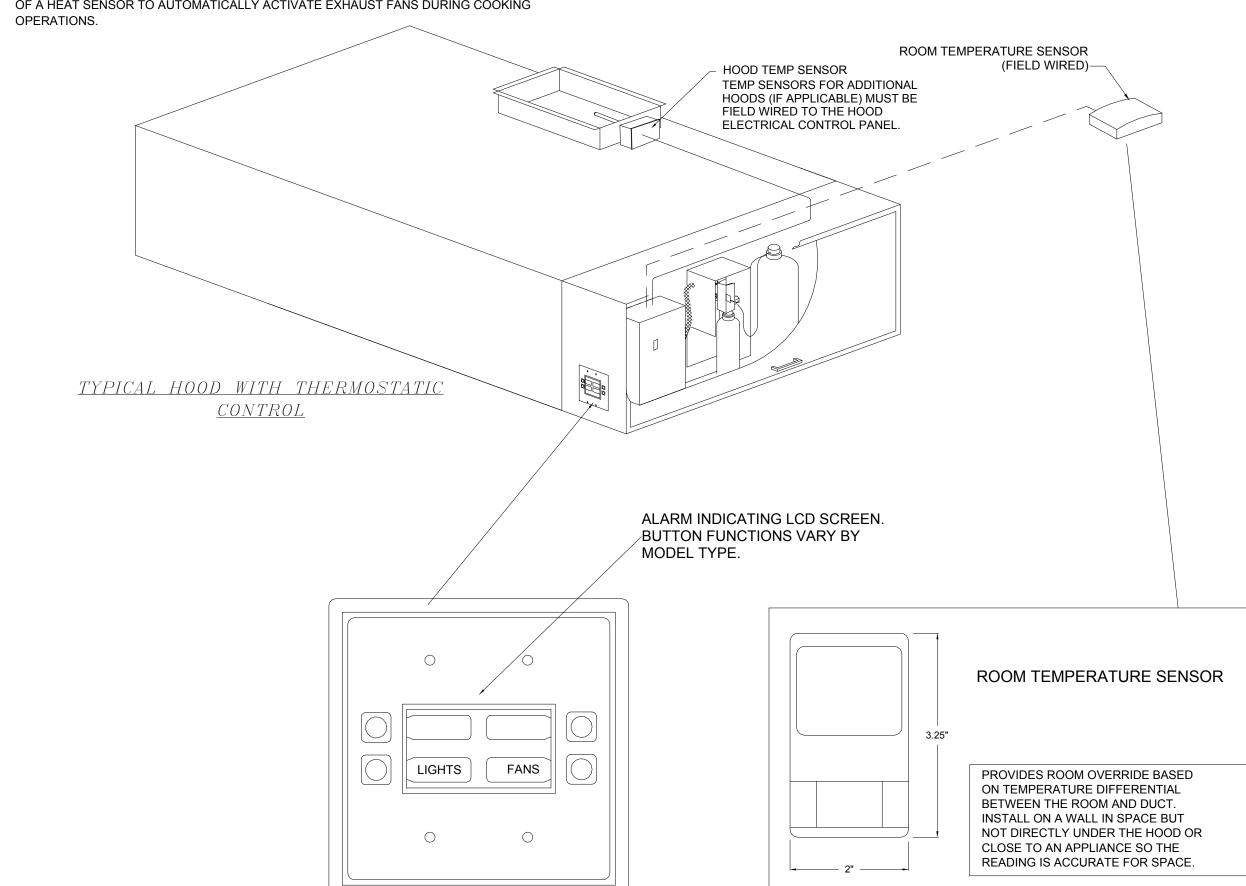
CaptiveAire Systems

FIRE SIZE NO.

Mechanical

TEMPERATURE SENSOR INTERLOCK

THE TEMPERATURE SENSOR INTERLOCK OPTION COMPLIES WITH IMC 507.2.1.1 AND NFPA 96 11.1.1 BY INTERLOCKING WITH COOKING APPLIANCES THROUGH MEANS OF A HEAT SENSOR TO AUTOMATICALLY ACTIVATE EXHAUST FANS DURING COOKING



Highwoods Group

IIPOTLE MIRAMAR FL #2417 RAMAR, FL, 33027

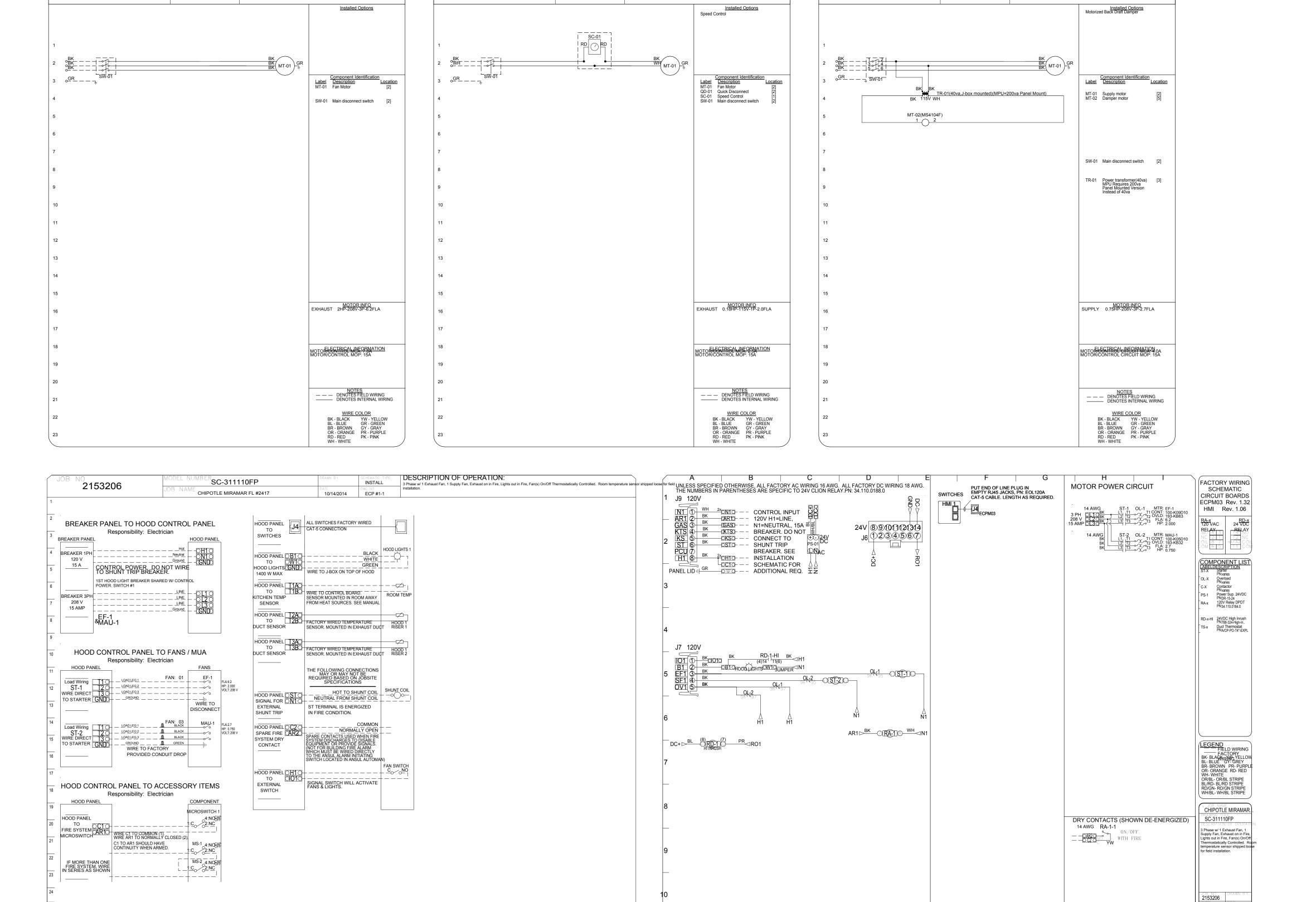
10/14/2014

2153206

JMB-40

3/4" = 1'-0"

MASTER DRAWING



JOB 2153206 - CHIPOTLE MIRAMAR FL #2417

SHIP DATE 10/14/2014 MODEL DR12HFA

Wiring

DRAWING NUMBER EXH2153206-2

JOB 2153206 - CHIPOTLE MIRAMAR FL #2417

SHIP DATE 10/14/2014 | MODEL A1-G10

Wiring

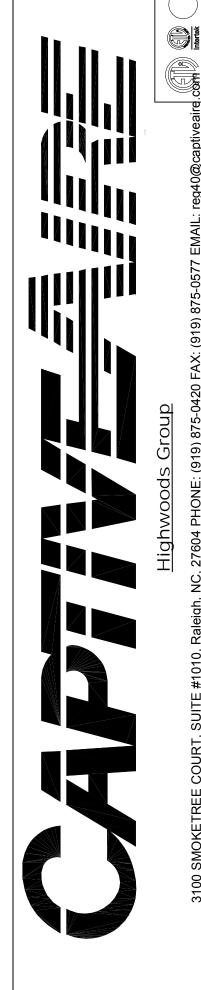
DRAWING NUMBER A2153206-3

JOB 2153206 - CHIPOTLE MIRAMAR FL #2417

SHIP DATE 10/14/2014 MODEL NCA24HPFA

Wiring

DRAWING NUMBER EXH2153206-1



CHIPOTLE MIRAMAR FL #2417 MIRAMAR, FL, 33027

10/14/2014

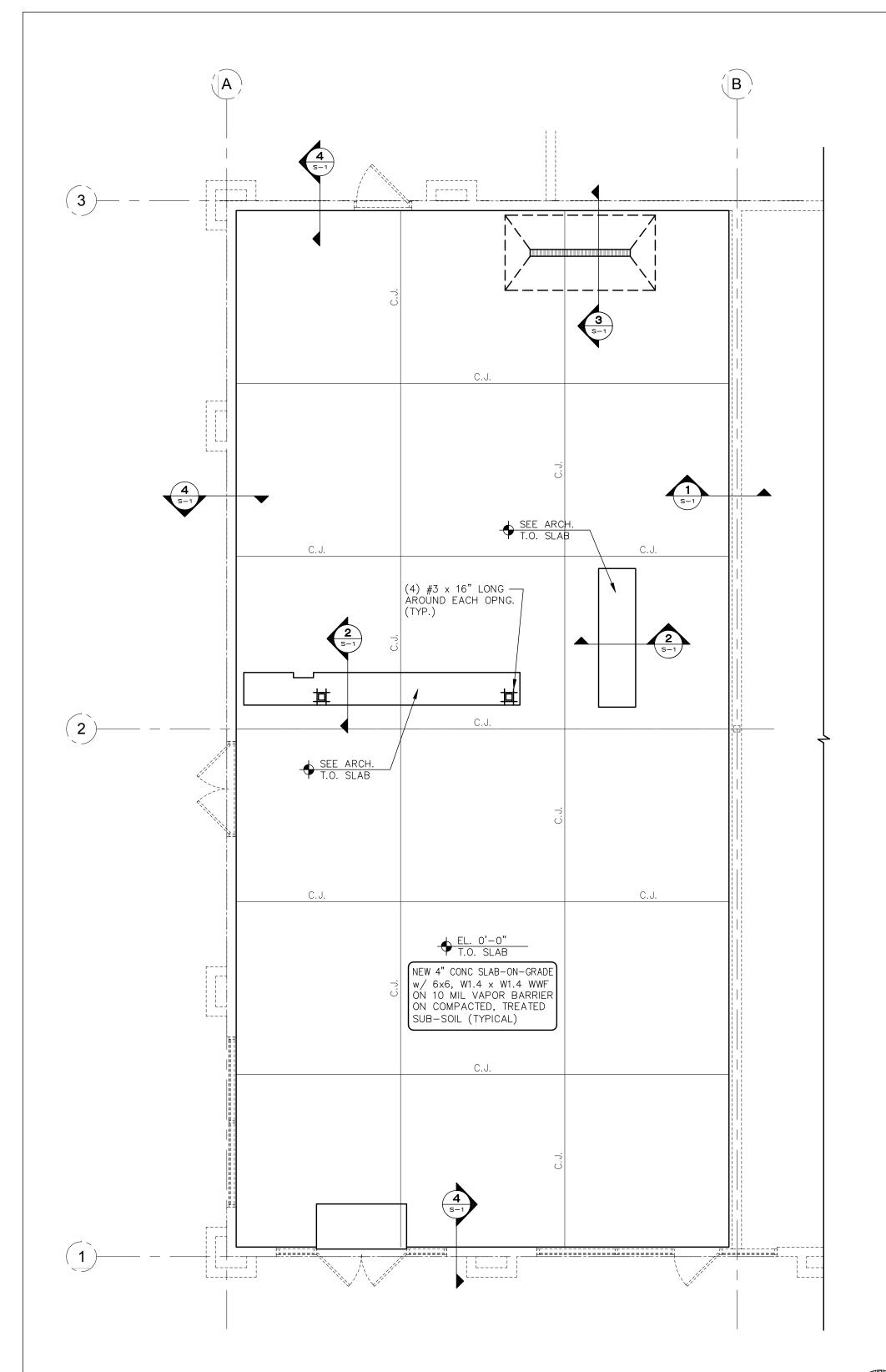
2153206

JMB-40

3/4" = 1'-0"

14 x 18 x 6 Box

MASTER DRAWING



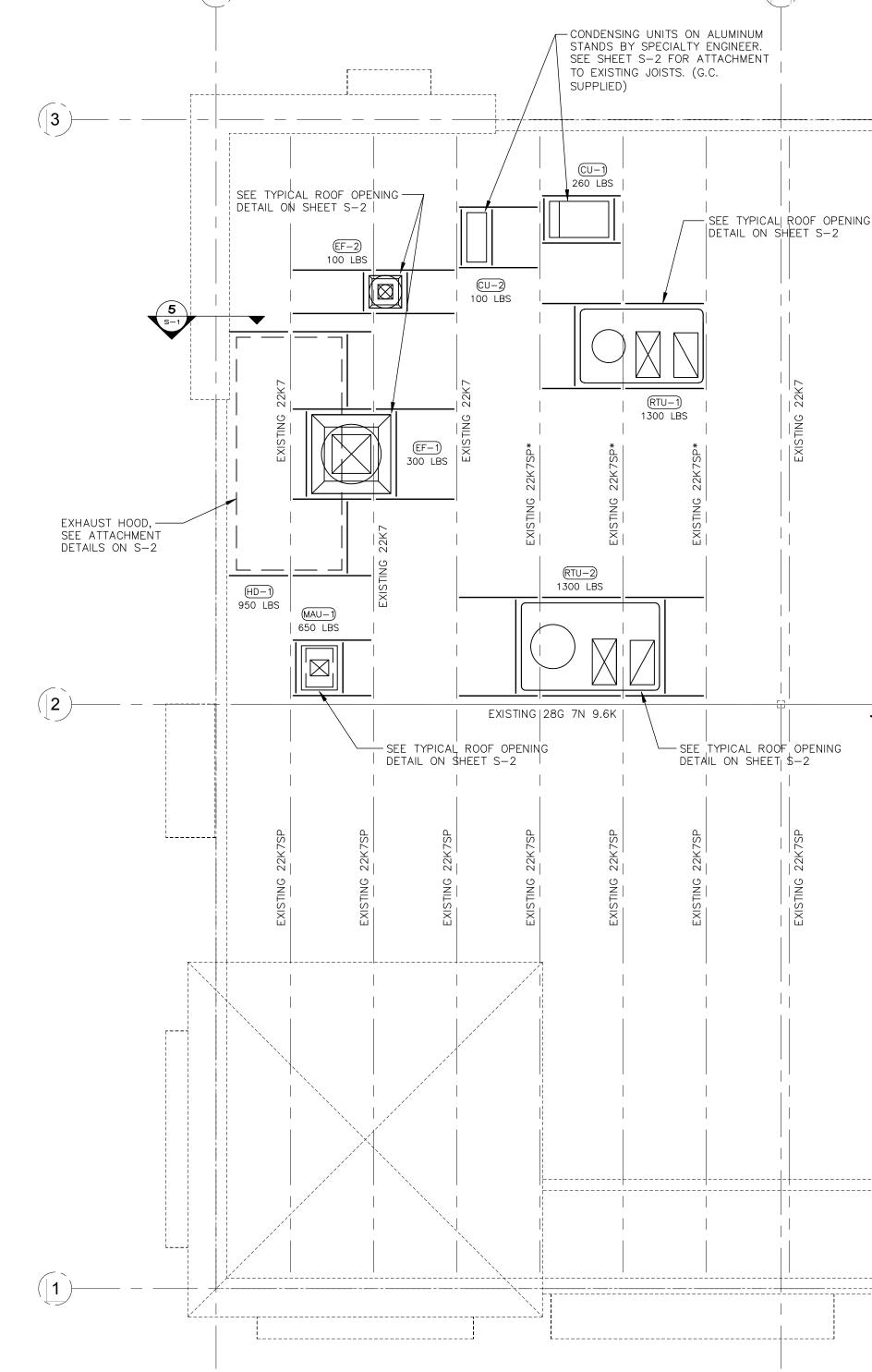
## FOUNDATION PLAN

### FOUNDATION NOTES:

1. RECOMPACT EXISTING SUBGRADE TO 95% COMPACTION AND TESTED BY GEOTECHNICAL

2. C.J.- INDICATES SAW CUT CONTROL JOINTS AT 12'-0" o.c. E.W. MAX. TYP.

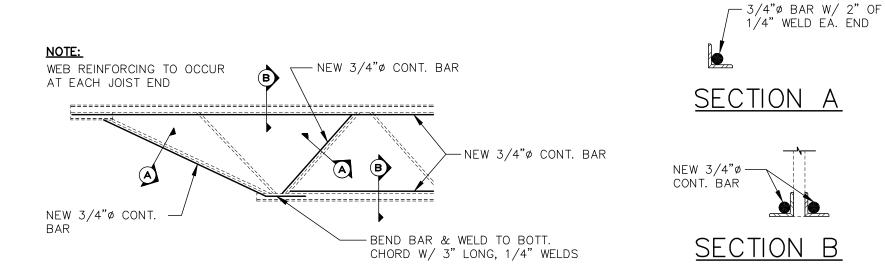
IF REQUIRED BY AUTHORITY HAVING JURISDICTION, AN INDEPENDENT THIRD PARTY INSPECTOR MUST INSPECT AND PRESENT REPORTS TO THE BUILDING DEPT. FOR WELDING, STRUCTURAL ERECTION AND ASSEMBLY OF STRUCTURES WITH HIGH STRENGTH BOLTS. THE G.C. SHALL NOT CONCEAL ANY STRUCTURAL STEEL UNTIL THE INSPECTION HAS BEEN DONE AND AN APPROVED REPORT IS FILED WITH THE COUNTY.



## ROOF FRAMING PLAN

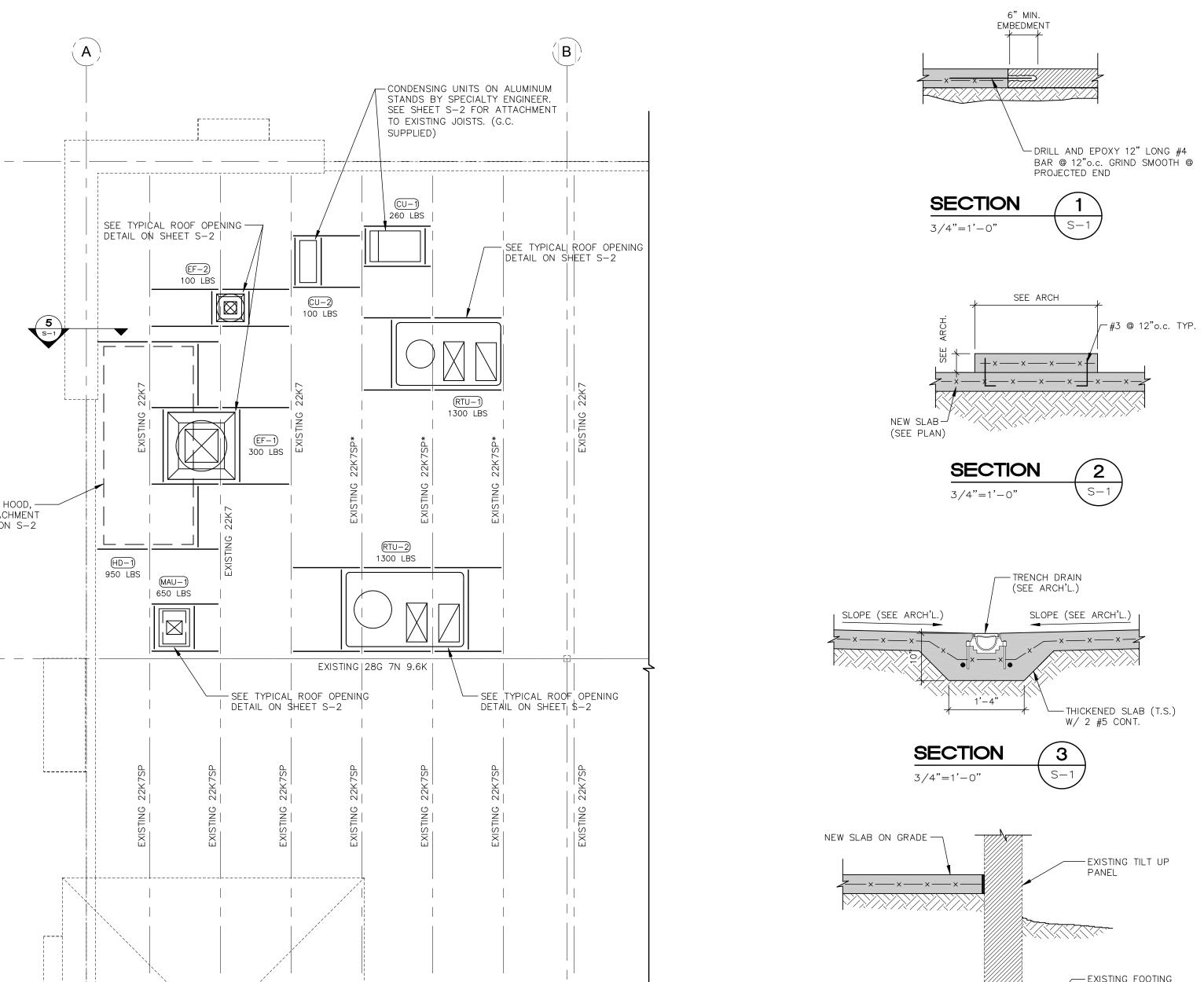
### ROOF FRAMING PLAN NOTES:

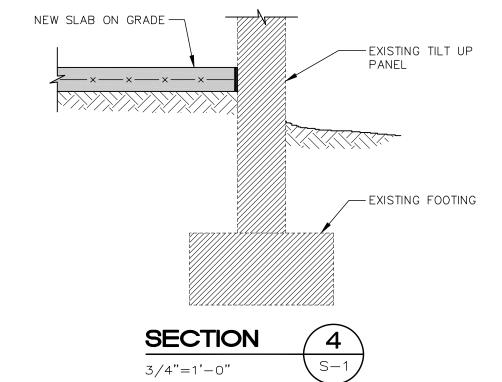
- REFER TO ARCH'L. FOR LOCATION OF ALL MECH. UNITS.
   G.C. TO VERIFY ALL EXISTING JOIST CONDITIONS MATCH DRAWINGS.
- ALL EXISTING ANGLE BRACING TO REMAIN. 4. JOISTS SUPPORTING RTU'S TO HAVE BEEN DESIGNED FOR WEIGHT OF RTU'S IN SHELL PERMIT,
- G.C. VERIFY. 5. (\*) INDICATES EXISTING ROOF JOIST TO BE REINFORCED.

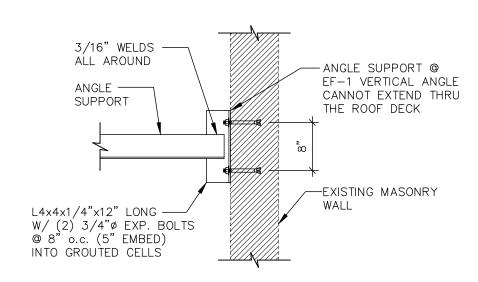


JOIST REINFORCING DETAIL (SEE NOTE 5)
(SEE PLAN FOR JOISTS WITH \*)

N.T.S.



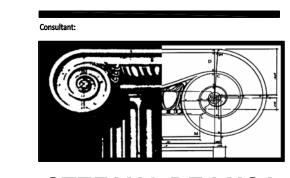






PERMIT SET 10/16/14





STEFANO DE LUCA & ASSOCIATES, INC.

ARCHITECTURE & DESIGN AA #26001224 611 Edwin Street Hollywood, FL 33020



THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



1401 WYNKOOP STREET, SUITE 500 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Issue Record:		
Revisions:		
Drawn:	Checked:	

**FOUNDATION PLAN** & ROOF FRAMING PLAN

**S-1** 

#### CONTRACTOR NOTE:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. O'DONNELL, NACCARATO, MIGNOGNA & JACKSON, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.

#### CODES AND STANDARDS

1. WIND LOADS AS PER:

A. FLORIDA BUILDING CODE 2010 EDITION, FOR AN ULTIMATE WIND SPEED OF 170 MPH, RISK CATEGORY II, EXPOSURE C, ±0.18 INTERNAL PRESSURE COEFFICIENT.

- 2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
- A. FLORIDA BUILDING CODE 2010 EDITION.
- 3. ARCHITECTURAL AND MECHANICAL DRAWINGS:
- A. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.
- B. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.
- BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- D. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- E. ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.
- 4. SECTIONS AND DETAILS:

ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

#### SPECIALTY ENGINEERED PRODUCTS

CEILINGS, ETC.

- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED SHOP DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL
- A. LIGHT GAUGE METAL, INCLUDING BUT NOT LIMITED TO, SOFFITS, CLADDING,
- B. MISCELLANEOUS METALS INCLUDING STEEL STAIRS, MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT MACHINES, PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF MECHANICAL SYSTEMS.
- C. MISCELLANEOUS HANGERS, CHANDELIERS, CABINETS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, FI OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY ANY OF THE CONSTRUCTION
- D. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICAL PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELIER FIXTURES, BAR CABINETS, AND ART WORK / MOBILES.

GENERAL CONTRACTOR TO INCLUDE IN THEIR BID THE COST OF THE ABOVE NOTED SPECIALTY

#### ADDITIONS / RENOVATIONS

- 1. ALL EXISTING CONDITIONS, DIMENSIONS, LOCATIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR IN THE FIELD AND COORDINATED WITH THE NEW CONSTRUCTION PRIOR TO PREPARATION OF WORKING OR SHOP DRAWINGS OR FABRICATION AND COMMENCEMENT OF ANY WORK. IF DISCREPANCIES ARE DISCOVERED BETWEEN EXISTING CONDITIONS AND CONTRACT WORK, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER PRIOR TO PERFORMANCE OF ANY WORK.
- 2. PRIOR TO SHOP DRAWING PREPARATION, THE GENERAL CONTRACTOR IS TO INVESTIGATE ACCOUNT ANY POSSIBLE CONSTRUCTION INTERFERENCES AND RELOCATIONS OF, BUT NOT LIMITED TO STRUCTURES, EQUIPMENT, UTILITIES, CABLES, DUCT LINES, PIPING, DRAIN LINES, ETC.
- 3. ANY PORTION OF EXISTING STRUCTURE ADJACENT TO THE CONSTRUCTION WHICH MAY BY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION AS GOOD AS BEFORE THE COMMENCEMENT OF THE WORK AT NO ADDITIONAL COSTS TO THE OWNER
- 4. EXISTING STRUCTURE SHALL BE PROTECTED, MAINTAINED AND SUPPORTED DURING THE CONSTRUCTION WORK.

### FOUNDATION

1. SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.

### 2. EXCAVATION & BACKFILL:

- A. ALL EXCAVATION SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES,
- B. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES.
- DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION. SCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.

### CONCRETE

1. CONCRETE ELEMENTS TO HAVE THE FOLLOWING STRENGTHS:

### A. SLAB-ON-GRADE 3000 PSI

- 2. ALL CONCRETE SHALL BE READY MIX AND MEET THE FOLLOWING REQUIREMENTS: A. A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
- B. SLUMPS SHALL BE 4" MINIMUM AND 6" MAXIMUM.
- C. CONCRETE SHALL HAVE  $3 \pm 1$  PERCENT AIR ENTRAINMENT.

CONCRETE FOR BUILDINGS (ACI 301/ LATEST EDITION).

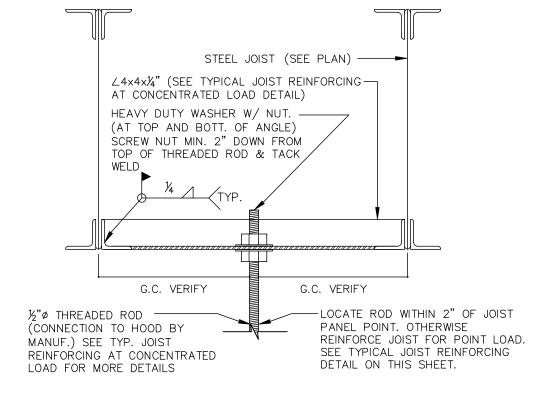
- D. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55. E. JOBSITE WATER SHALL NOT BE ADDED.
- 3. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACL BUILDING CODE (ACI 318/ LATEST EDITION), THE ACI DETAILING MANUAL (ACI 315/ LATEST EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL
- 4. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A 185, UNLESS OTHERWISE SPECIFIED. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.

## 5. REQUIREMENTS: WWF SHALL COMPLY WITH ASTM A 185.

- 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. STRUCTURAL STEEL SHALL CONFORM TO:
- A. ASTM SPECIFICATION A 36 FOR MISCELLANEOUS STEEL SHAPES (ANGLES, PLATES, ETC.) NEW STEEL COLUMNS TO BE A500 GRADE B (fv = 46 KSI).
- B. ALL STEEL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
- C. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASEMENT.

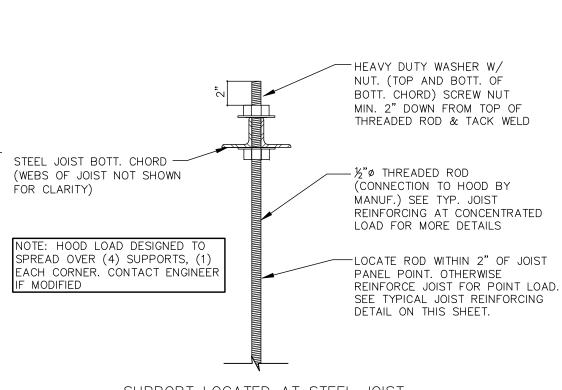
#### STEEL CONTINUED

- ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.
- 3. ALL ALUMINUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
- 4. ALL STEEL WELDING RODS SHALL BE E70XX ELECTRODES.
- 5. EQUIPMENT SUPPORTS:
  - PROVIDE ALL SUPPORTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS. INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPORT EQUIPMENT OR PIPING FROM METAL DECKING.
- SHOP DRAWINGS
- THE SHOP DRAWINGS SHALL BE SUBMITTED IN COMPLETE PACKAGES FOR THE
- A. CONCRETE MIX DESIGNS
- B. CONCRETE REINFORCING STEEL AND WELDED WIRE FABRIC
- PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.

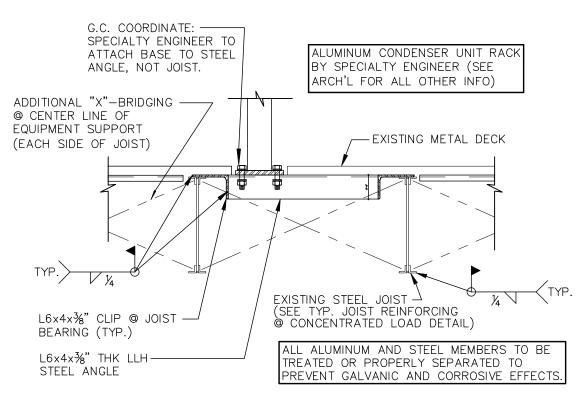


#### SUPPORT LOCATED BETWEEN STEEL JOIST

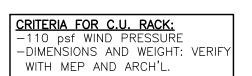
## TYPICAL HANGING HOOD DETAILS



SUPPORT LOCATED AT STEEL JOIST



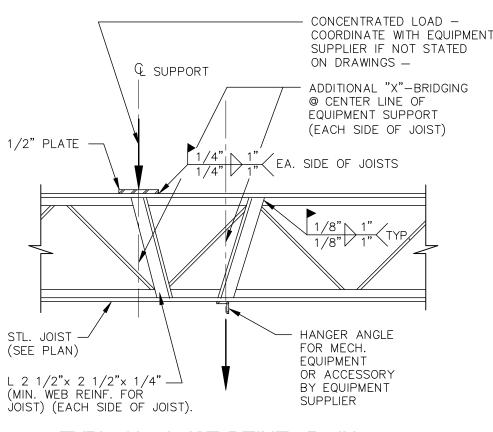
### TYPICAL ALUMINUM C.U. RACK ATTACHMENT DETAIL



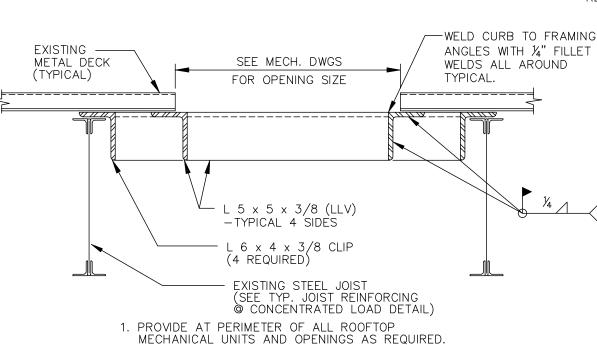
ULTIMATE														
COMPONENT & CLADDING WIND DESIGN PRESSURES														
PRESSURES BASED ON Vult	ROC	OF WIND LO	ADS	WALL WIND LOADS (SEE NOTE 1)										
ľ		ROOF AREA		WALL	AREA									
Kd IS INCLUDED	1	2	3	4	5									
PRESSURE (PSF)	+31.4	+70.5	+70.5	+70.5										
SUCTION (PSF)	-77.0	-129.2	-129.2	-76.4	-94.0									

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 2010 FLORIDA BUILDING CODE BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS. 2. WIND DESIGN PRESSURES NOTED MAY BE MULTIPLIED BY (.6) FOR COMPARISON TO ALLOWABLE (NOMINAL) WIND PRESSURES OF TESTED ASSEMBLIES. PER SECTION 1609.1.5 OF 2010 FBC.

3. REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS. 4. CORNER DISTANCE, A = 8 FEET

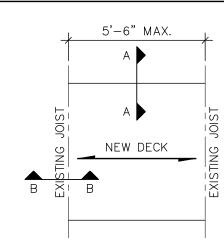


### TYPICAL JOIST REINFORCING AT CONCENTRATED LOAD

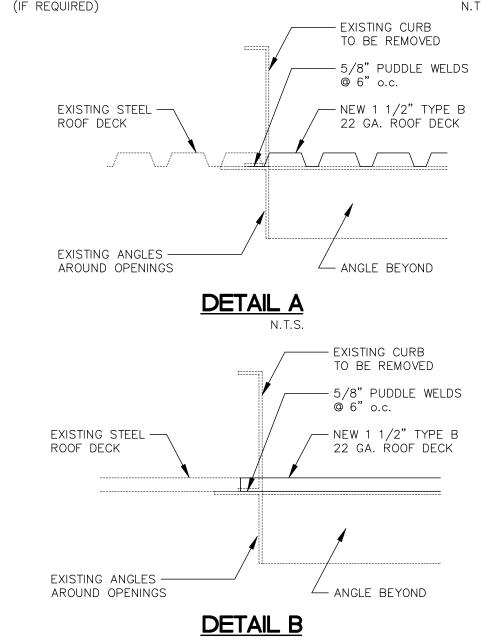


#### 3. PROVIDE L 3 $\times$ 3 $\times$ 5/16 AT ROOF SUMPS TYPICAL ROOF OPENING DETAIL . JOISTS

2. SEE MECH. DWGS FOR OPENING SIZE & LOCATION.



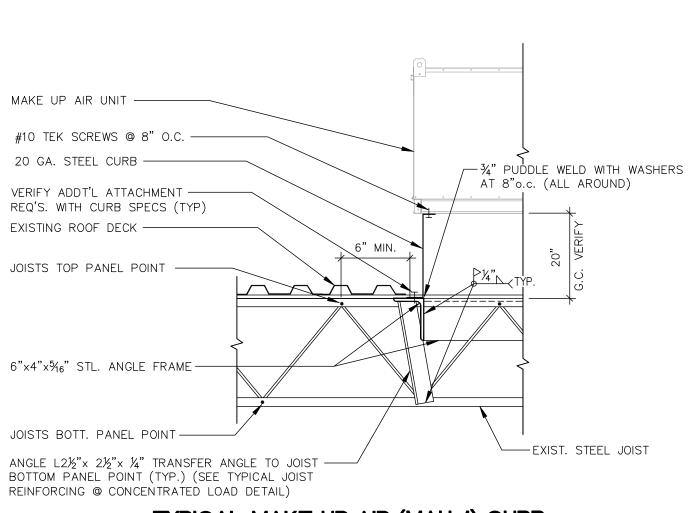
# INFILL OF EXISTING OPENING IN ROOF DETAIL



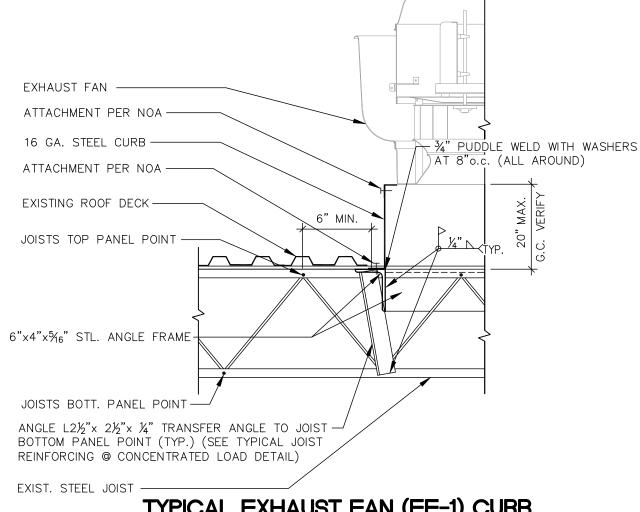
ALLOWABLE												
COMPONENT & CLADDING WIND DESIGN PRESSURES												
PRESSURES BASED ON VASO	ROOF WIND LOADS WALL WIND LO (SEE NOTE 1)											
		ROOF AREA		WALL	AREA							
Kd IS INCLUDED	1	2	3	4	5							
PRESSURE (PSF)	F) +18.8 +42.3 +42.3 +42.3 +42.3											
SUCTION (PSF)	-46.2	-77.5	-77.5	-45.8	-56.4							
. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 2010 FLORIDA BUILDING CODE BY EITHER BEING												

DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS 2. REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS.

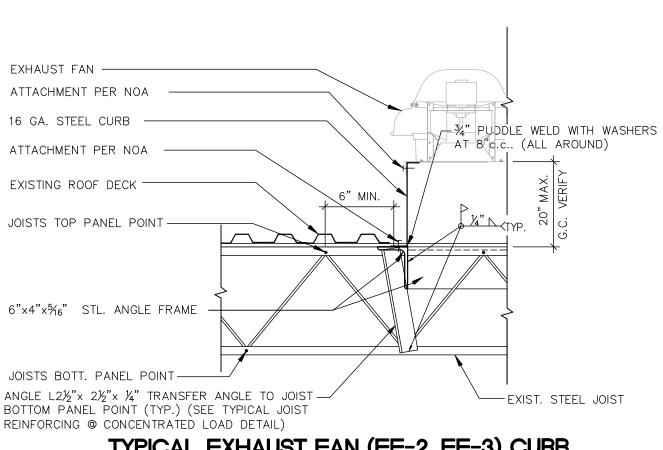
3. CORNER DISTANCE, A = 8 FEET



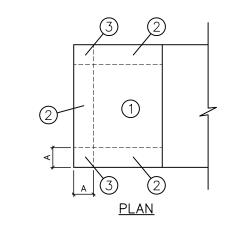
### TYPICAL MAKE UP AIR (MAU-1) CURB **ATTACHMENT DETAIL**

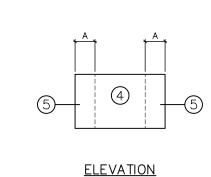


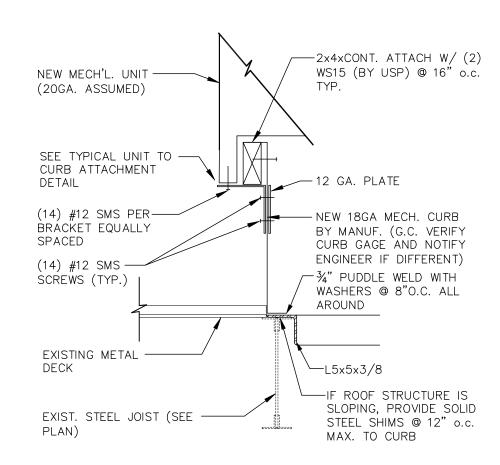
TYPICAL EXHAUST FAN (EF-1) CURB **ATTACHMENT DETAIL** 



TYPICAL EXHAUST FAN (EF-2, EF-3) CURB ATTACHMENT DETAIL

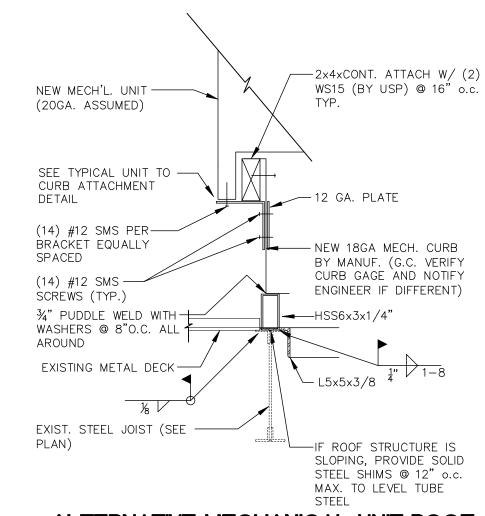






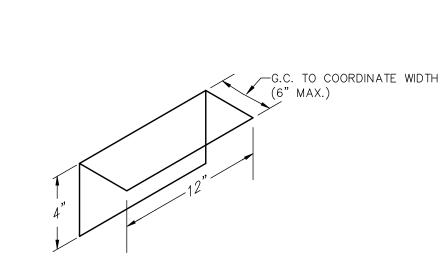
## MECHANICAL UNIT ROOF ATTACHMENT

RTU CURB TO MAINTAIN 8" CURB HEIGHT ABOVE FINISHED ROOF. SEE ARCH DWG FOR MORE INFORMATION.



# **ALTERNATIVE MECHANICAL UNIT ROOF**

EXTENSION OF RTU CURB TO MAINTAIN 8" CURB HEIGHT ABOVE FINISHED ROOF.



GENERAL CONTRACTOR SHALL CONSTRUCT BRACKET OF 3/8" GALVANIZED STEEL. INSTALL BRACKETS @ LONG SIDE @ EACH UNIT CORNER TYP. (4 TOTAL).

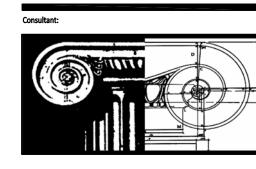
> TELD VERIFY CURB CONFIGURATION AND BRACKE DIMENSIONS PRIOR TO FABRICATING

# TYPICAL UNIT TO CURB ATTACHMENT DETAIL



### PERMIT SET 10/16/14

LIC. #0004386 WEST PALM BEACH, FLORIDA 33401 JOB # 671.104 (561) 835 - 9994 FAX (561) 835 - 8255



### STEFANO DE LUCA & ASSOCIATES, INC

ARCHITECTURE & DESIGN AA #26001224 611 Edwin Street Hollywood, FL 33020



THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC...



1401 WYNKOOP STREET, SUITE 500 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

7 MIRAN V 160 A MAR, F

SCHEDULES, DETAILS & STRUCTURAL **NOTES** 

**S-2** 

### MECHANICAL SPECIFICATIONS

SECTION 15080 - MECHANICAL INSULATION

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: None.

B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.

PART 2 - PRODUCTS

2.1 PIPE INSULATION A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor

B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.

PART 3 - EXECUTION 3.1 INSTALLATION

A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.

B. Insulate fittings, valves, and specialties.

C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections. D. Coat glass fiber pipe insulation ends with vapor barrier coating.

E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing. F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.

G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.

H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.

I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.

J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.

K. Interior Piping System Applications: Insulate the following piping systems:

Domestic hot and cold water.

2. Exposed sanitary drains of fixtures for the disabled.

Refrigerant piping.

L. Do not apply insulation to the following systems, materials, and equipment:

Flexible connectors.

2. Fire protection piping systems.

3. Sanitary drainage and vent piping.

4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled. 5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow

M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:

1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.

2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.

END OF SECTION 15080

SECTION 15554 - FLUES AND VENTS

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: None.

PART 2 - PRODUCTS 2.1 GAS VENTS

A. Vent/air intake for high efficiency domestic water heater. Size per manufacturer's recommendation.

B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent-pipe straight sections.

PART 3 - EXECUTION 3.1 INSTALLATION

A. Install vents according to stipulated minimum clearances from combustibles.

B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.

C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.

**END OF SECTION 15554** 

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Shop Drawings.

B. Comply with ASHRAE 15.

C. EER: Equal to or greater than prescribed by ASHRAE 90.1, "Energy Efficient Design of New Building, except Low Rise Residential Buildings."

D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion. PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.

1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M200 for capacities, and manufacturers.

2. Evaporator Fans: Belt driven, forward curved centrifugal.

3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.

4. Condenser Fans: Direct drive propeller.

5. Refrigerant Coils: Aluminum fins and copper coil.

6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off

7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft

8. Economizer controls (Comparative Enthalpy, 100% capacity).

Low ambient controls.

Smoke Detectors: Photoelectric.

11. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.

13. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications. 14. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for

plenum applications. PART 3 - EXECUTION

3.1 INSTALLATION

A. Install units level and plumb and firmly anchored.

B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.

C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.

D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.

E. Connect units to wiring systems and to ground. END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS Submittals: Product Data for fire and smoke dampers.

Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.

C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..

D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," Chapter 3, "Duct System," for range hood ducts, except single family residential usage, unless

otherwise indicated.

Comply with UL 181 and UL 181A for ducts and closures. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified.

PART 2 - PRODUCTS 2.1 DUCTS

A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924 1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be

submitted for review. 2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis

of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.

Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.

C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant

1. Adhesive: ASTM C 916, Type I. 2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch

coating. Thickness: 1-1/2 inch. R-value: 6.3.

projection maximum into the airstream. D. Joint and Seam Tape: Comply with UL 181A.

Joint and Seam Sealant: Comply with UL 181A.

Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.

B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".

Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying

D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION INSTALLATION 3.1

Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.

Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.

Avoid passing through electrical equipment spaces and enclosures. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".

Install duct accessories according to applicable portions of details of construction as shown in SMACNA

Install liner on all supply and return duct. G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion

Install fire and smoke dampers according to manufacturer's UL approved written instructions. Install fusible links in fire dampers.

Provide saddle taps at tees for exposed ductwork. TESTING, ADJUSTING, AND BALANCING

The owner will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.

The general contactor is to have trained staffed available during the balancing to correct issues noted by the balance agent.

The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.

D. The balance agent is to supply a copy of the balance report to the owner, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

1.1 SECTION REQUIREMENTS A. Submittals: None.

PART 1 - GENERAL

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS A. Diffusers:

1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule

2. Manufacturer: As scheduled (NO SUBSTITUTIONS) 3. Material: As scheduled.

4. Finish: As scheduled. 5. Mounting: As scheduled.

B. Wall and Ceiling Registers:

1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule 2. Manufacturer: As scheduled (NO SUBSTITUTIONS) 3. Material: As scheduled.

4. Finish: As Scheduled. Mounting: Countersunk screw.

C. Wall and Ceiling Grilles:

6. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule 7. Manufacturer: As scheduled (NO SUBSTITUTIONS)

8. Material: As scheduled. 9. Finish: As Scheduled.

10. Mounting: Countersunk screw or lay in depending location. PART 3 - EXECUTION

3.1 INSTALLATION A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted

B. Locate ceiling diffusers, registers, and grilles, as indicated on general construction "reflected ceiling

plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels. END OF SECTION 15855

SECTION 15900 - HVAC INSTRUMENTATION AND CONTROLS

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Summary: Electric/electronic control sequences for HVAC systems and equipment.

B. Submittals: Shop Drawings detailing operating control sequences of each item of HVAC equipment and system and Product Data for controllers, sensors, operators, control panels, thermostats, humidistats,

actuators, control valves and dampers. C. System Description: Control systems consists of sensors, indicators, actuators, final control elements, interface equipment, and other apparatus, accessories, required to operate mechanical systems

according to sequences of operation indicated and specified. D. Operation Sequence:

1. Unoccupied Cycle: During unoccupied hours as set by a programmable thermostat the outside air and return dampers for the HVAC unit close, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the HVAC unit energizes.

2. Occupied Cycle: During occupied hours, as set by a programmable thermostat the outside air and return dampers open to a minimum set point. The furnace and exhaust fans run continuously. Upon a call for heating, the furnace heating energizes. Upon a call for cooling, the condensing unit energizes.

PART 3 - EXECUTION

PART 2 - PRODUCTS (Not Applicable)

A. Install control wiring concealed, except in mechanical rooms, and according to requirements specified in Division 16 Sections. END OF SECTION 15900



788 Columbus, Ohio 43230 Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036 ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Issue Record: 10.16.2014	Permit & Landlord Review
1-30-15	FOR BIDDING
# Revisions:	
<del></del>	
Drawn:	Checked:
AMD	MPC
Project No.	
1401051	

Date of Last Print:

Mechanical

Specifications

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- REFER TO ARCHITECTURAL SHEETS FOR SUPPLY REGISTER ELEVATIONS AND LOCATIONS. 4 18/16 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE
- DETECTOR TO RTU-1 OPERATION. 20/16 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION. ROUTE DUCT TIGHT TO DECK OR THROUGH JOIST GIRDER IF
- 6 18/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 20/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB. 8 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 9 10/14 DUCTS UP FROM HOOD TO 20/14 DUCT THROUGH ROOF TO EF-1. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 10 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 11 16/10 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 4.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE.
- TYPICAL. CAP UNUSED DUCT CONNECTIONS. 13 PROVIDE REMOTE TEMPERATURE SENSOR FOR RTU-1 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT.
- PROVIDE REMOTE TEMPERATURE AND HUMIDITY SENSORS FOR RTU-2 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT AND WALL MOUNTED ARTWORK.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- 16 INSTALL CHIPOTLE-FURNISHED "LIGHTSTAT" THERMOSTATS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA AND EXTEND WIRING TO REMOTE TEMPERATURE SENSORS AND ROOFTOP UNITS. LABEL EACH THERMOSTAT ACCORDINGLY. COORDINATE THERMOSTAT LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS, OR DOORS.
- INSTALL CHIPOTLE-FURNISHED KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 4, AND 5/M300. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM. HOOD IS DESIGNED TO COMPLY WITH FBC MECHANICAL 507.2.1.1
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH COOLER ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE WATER HEATER COMBUSTION AIR AND FLUE VENTS THROUGH THE ROOF PER DETAIL 1/P300.
- MAINTAIN 10' MINIMUM SEPARATION BETWEEN FLUE VENT AND VENTILATION AIR INTAKES. TERMINATE PER THE WATER HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 22 INSTALL EXHAUST FAN EF-1 PER DETAIL 6/M300. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- 23 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M300. TYPICAL. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 72" AFF AT THIS LOCATION. GC
- SHALL COORDINATE FINAL LOCATION WITH INSPECTOR. INSTALL RETURN GRILL IN TOP OF JOIST SHELF, FACING THE DECK SO CONCEALED FROM VIEW FROM
- PROVIDE EXHAUST REGISTER CONCEALED IN RESTROOM COVE AS SHOWN IN SECTION 2/M100. 27 SUPPORT EXPOSED ROUND DUCTWORK PER DETAIL 7/M300. CONSTRUCT EXPOSED SPIRAL DUCT USING FITINGS MANUFACTURED BY SPIRAL DUCT MANUFACTURER. USE COMBINATION OF FITTINGS

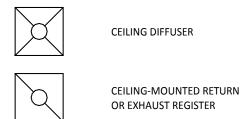
### **HVAC GENERAL NOTES**

- A GENERAL NOTES APPLY TO HVAC SHEETS.
- B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET A000 FOR THE PREVAILING CODES.

AVAILABLE TO MATCH DUCT LAYOUT ON PLAN. REFER TO ARCH FOR LOCATION.

- C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES,
- AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE. H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO
- CONSTRUCTION. I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE
- REPLACE AIR FILTERS WITH NEW, CLEAN MERV 7 AIR FILTERS AT TURNOVER.
- K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE. SUPPLY ALL MECHANICAL EQUIPMENT WITH MOTORIZED DAMPERS IF REQUIRED BY CODE.

### **HVAC SYMBOLS**



SUPPLY REGISTER

RETURN GRILLE

FLEXIBLE DUCT

MITERED CORNER WITH TURNING VANES DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION DUCT-MOUNTED SMOKE DETECTOR MOTOR-OPERATED DAMPER MANUAL VOLUME DAMPER

GREASE DUCT CLEANOUT MITERED CORNER WITHOUT TURNING VANES

THERMOSTAT

REMOTE TEMPERATURE SENSOR

CONNECT TO EXISTING

PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M200 FOR EQUIPMENT INFORMATION

AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET

ABOVE FINISHED FLOOR ABOVE FINISHED GRADE CEILING DIFFUSER

**CONDENSING UNIT** EXHAUST FAN EXHAUST REGISTER

EXT'G **EXISTING** HOOD MAKEUP AIR UNIT

OBD BLADE DAMPER RETURN GRILLE RTU ROOFTOP UNIT SUPPLY REGISTER VARIABLE SPEED CONTROL

GENERAL CONTRACTOR TENANT'S HVAC EQUIPMENT SUPPLIER TENANT'S TEST AND BALANCE VENDOR TENANT'S CABLING CONTRACTOR TENANT'S KITCHEN EQUIPEMNT SUPPLIER

TENANT'S HOOD SUPPLIER TENANT'S LIGHT/LAMP SUPPLIER TENANT'S MENU BOARD SUPPLIER TENANT'S MILLWORK SUPPLIER

TENANT'S PHONE SUPPLIER TENANT'S RAILING SUPPLIER TENANT'S SIGN VENDOR

By

GC

Furnished Installed

GC

GC

GC

GC

TENANT'S WALK-IN COOLER SUPPLIER

Manufacturer

Nailor

GC Nailor

GC Nailor

GC Nailor

GC Seiho

GC Seiho

Nailor

Nailor

GC

GC

Model

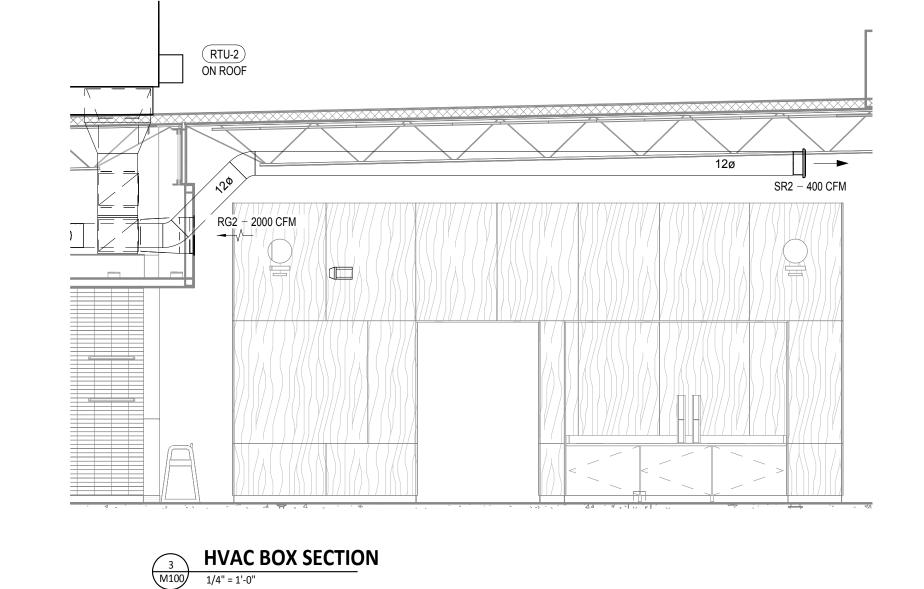
4320A Type L

4320A Type S

4320A Type S

4330R Type S

NTX 10R



CATEGORY	APPLICATION	ALLOWABLE MATERIAL
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, PAINTED TO MATCH ROOF DECK
	EXPOSED RETURN	RECTANGULAR, PAINTED TO MATCH ROOF DECK
	EXPOSED GEN. EXHAUST	RECTANGULAR, PAINTED TO MATCH ROOF DECK
DUCT	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
DOCT	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

Description

Perforated Ceiling Diffuser

Perforated Ceiling Diffuser

Perforated Ceiling Diffuser

0° Fixed Blade Return Grill

Perforated Ceiling Return

0° Fixed Blade Return Grill

Adjustable Turbo Nozzle

Adjustable Turbo Nozzle

FACTORY-MANUFACTURED

DUCT PRIOR TO ORDERING

FOR APPROVAL)

Face: 12" x 12" | Aluminum | White

Face: 24" x 24" | Aluminum | White

Neck: 36" x 18" | Aluminum | White

Face: 24" x 24"

Neck: Varies

Neck: 6"Ø

Face: 20" x 20"

Neck: Varies

Neck: 8" x 4"

Neck 22" x 22"

Neck: 14"Ø

Neck: 12"Ø

Material

Aluminum White

Aluminum White

Aluminum White

Aluminum White

Aluminum Paint to

match duct

Finish

Mounting

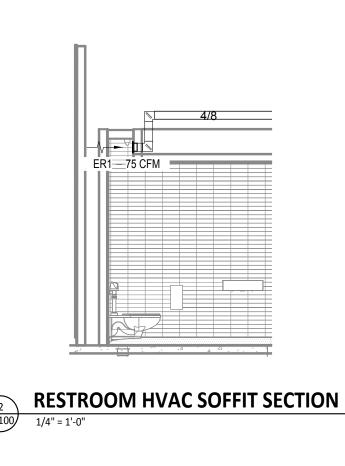
Lay-in

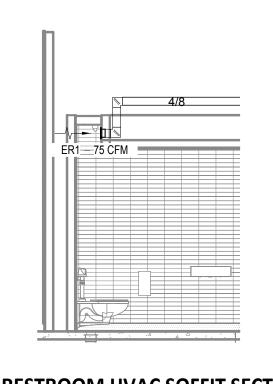
Lay-in

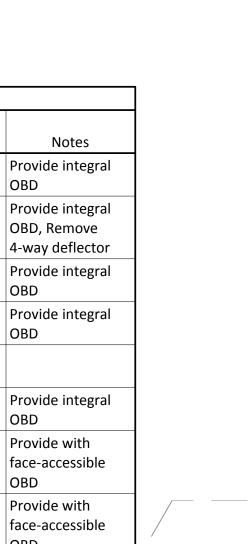
Ceilings

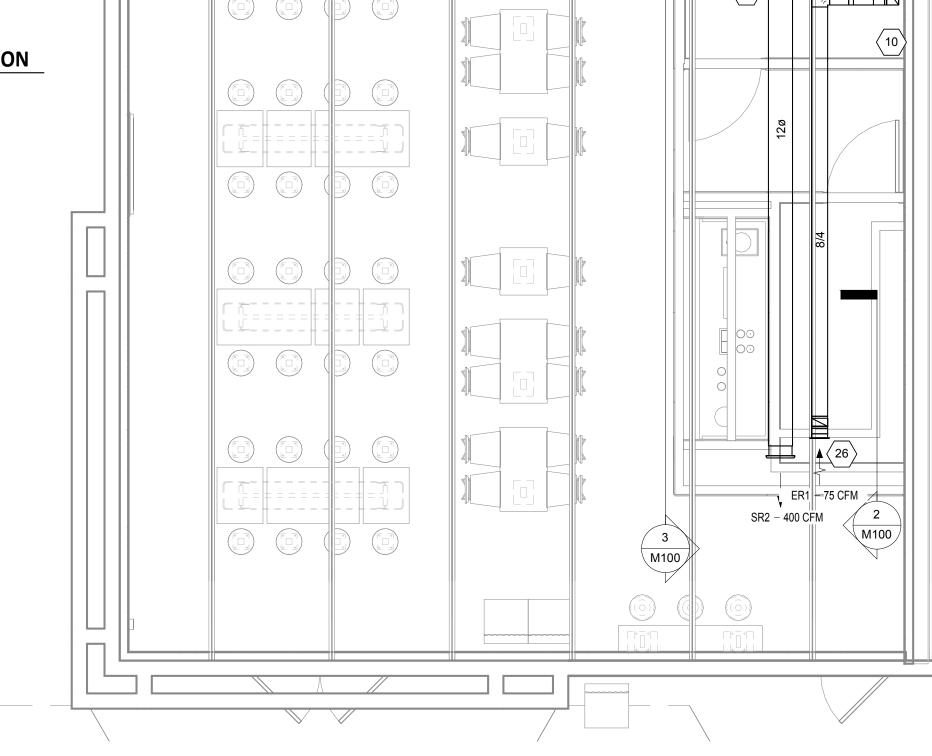
OBD

MATERIAL SCHEDULE









SR1 650 CFM

SR1 - 650 CFM

8Ø CD1 - 200 CFM

6Ø CD2 - 200 CFM

ON ROOF

SR1 - 650 CFM

12/16





Columbus, Ohio 43230 Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036 ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Permit & Landlord Review 10.16.2014 1-30-15 FOR BIDDING l 12-17-14 Permit Review Comments

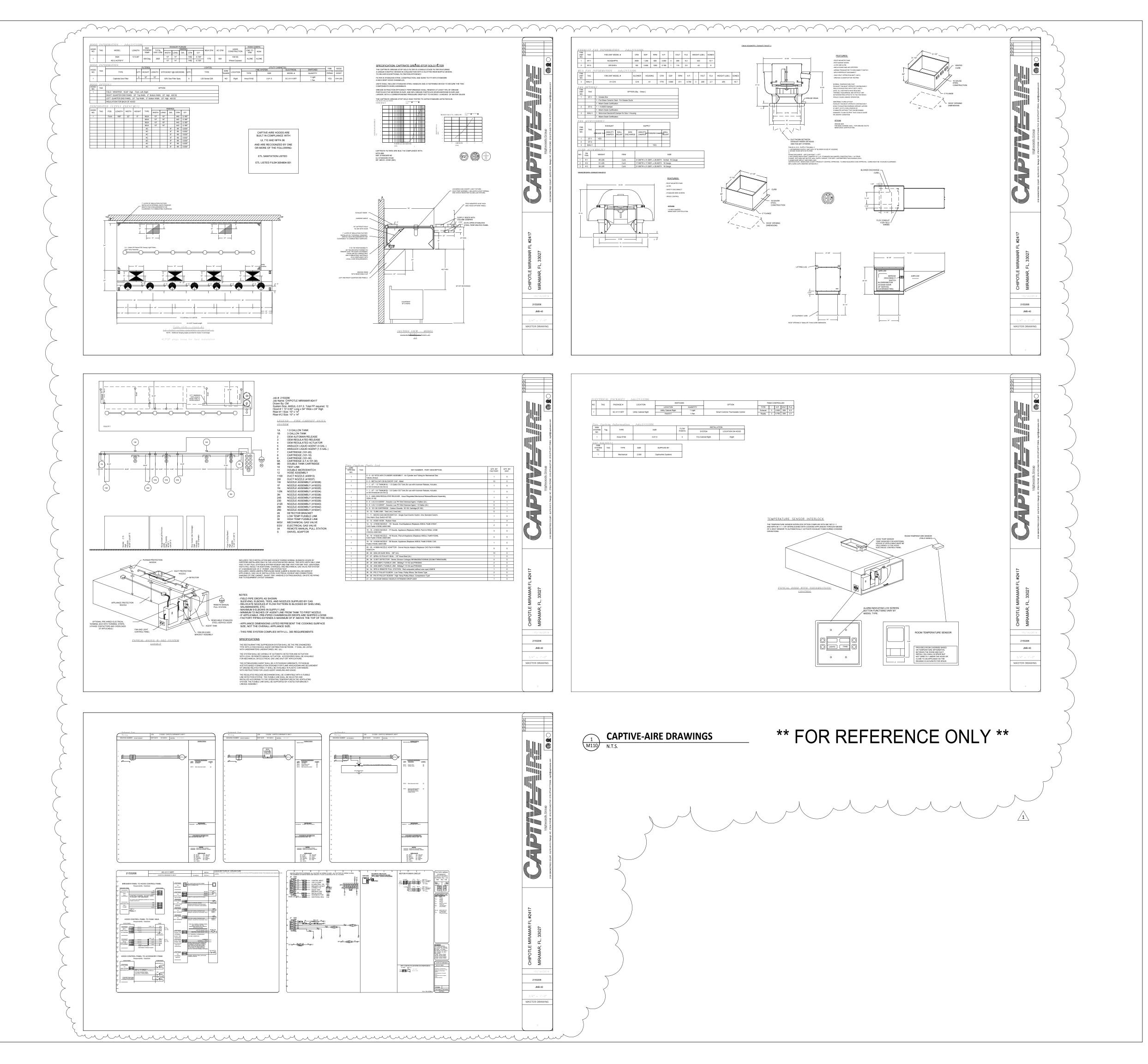
ER1 - 75 CFM

1401051

**HVAC Plan** 

M100

Date of Last Print:





788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036
ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC.
1401 WYNKOOP STREET, SUITE 500
DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

MIRAMAR, FL 231 SW 160th Ave. Suite 101 Miramar, FL 33027

10.16.2014 1-30-15	Permit and Landlord Review FOR BIDDING
	_
	_
# Revisions: 12-17-14	Permit Review Comments
	_
	_
	_
	_
Drawn:	Checked:
AMD	RTJ
Project No.	
1401051	
1401031	
Contents:	
Captive	e-Aire Drawings

M110

Date of Last Print:

#### **FAN SCHEDULE** Electrical Basis for Design Furnished Installed Drive Type Exhaust Flow E.S.P. Motor Power V/P/H By Manufacturer Model Weight By Remarks EF-1 2925 CFM 1.20 in-wg 300 2 HP 208/3/60 THS GC NCA24HPFA WITH DISCONNECT AND VENTED ROOF CURB Belt Captive-Aire EF-2 150 CFM 0.60 in-wg 100 0.18 HP 120/1/60 THS GC DR12HFA WITH DISCONNECT, VARIABLE SPEED CONTROLLER, Direct Captive-Aire BACKDRAFT DAMPER AND ROOF CURB

	MAKEUP AIR UNIT SCHEDULE														
Airflow Heating Capacity								Electrical					Basis for	Design	
		Supply Flow	E.S.P.	E.S.P. Output Maximum Approximate Furnished Installed											
Tag	Description	[CFM]	[IN. W.C.]	Input [MBH]	[MBH]	Turndown	EAT	Weight [LBS]	Motor Power	V/P/H	Ву	Ву	Manufacturer	Model	Remarks
MAU-1	Untempered	1575	0.80					350	1 HP	208/3/60	THS	GC	Captive-Aire	A1-G10	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN
	Makeup Air Unit														INTAKE, AND WASHABLE ALUMINUM FILTERS

	CONDENSING UNIT SCHEDULE														
	Nominal Electrical Basis for Design														
		Capacity	No. of	No. of	Refrigerant	Refrigerant					Furnished	Installed			
Tag	Description	[Tons]	Compressors	Circuits	Type	Charge	Weight	МОСР	FLA	V/P/H	Ву	Ву	Manufacturer	Model	Remarks
CU-1	Walk-in Cooler Remote		1	1	R-410A	10.7 lbs	260	20 A	16.2 A	208/3/60	WCS	GC	Norlake	NASD150RL3	FURNISHED WITH WALK-IN COOLER
	Condensing Unit														
CU-2	Ice Maker - Remote Condenser		0	1	R-404A	4.0 lbs	100			120/1/60	TES	KES	Hoshizaki	URC-14F	FURNISHED WITH ICE MAKER

	CONDENSING UNIT SCHEDULE														
	Nominal Electrical Basis for Design														
		Capacity	No. of	No. of	Refrigerant	Refrigerant					Furnished	Installed			
Tag	Description	[Tons]	Compressors	Circuits	Type	Charge	Weight	MOCP	FLA	V/P/H	Ву	Ву	Manufacturer	Model	Remarks
CU-1	Walk-in Cooler Remote Condensing Unit		1	1	R-410A	10.7 lbs	260	20 A	16.2 A	208/3/60	WCS	GC	Norlake	NASD150RL3	FURNISHED WITH WALK-IN COOLER
CU-2	Ice Maker - Remote Condenser		0	1	R-404A	4.0 lbs	100			120/1/60	TES	KES	Hoshizaki	URC-14F	FURNISHED WITH ICE MAKER

ZONE	REQUIRED OA CFM	ACTUAL OA CFM
KITCHEN	607	2925
OFFICE	5	34
DINING	636	1000
RESTROOMS	100	150

\*\*\*CALCULATIONS OF THESE VALUES WERE CONDUCTED USING TABLE 403 IN THE MECHANICAL PORTION OF THE 2010 FLORIDA BUILDING CODE.

	AIR BALANCE SCHEI	DULE			
TAG	EXHAUST CFM	NET CFM			
EF-1		2925	-2925		
EF-2		150	-150		
MAU-1	1575		1575		
RTU-1	500		500		
RTU-2	1000		1000		
TOTAL			0		

**CONTROL FUNCTIONS** 

CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED

OCCUPIED/UNOCCUPIED STATUS USING A BUILT-IN LIGHT SENSOR, SUCH THAT WHEN THE AMBIENT LIGHT IS ABOVE AN

ADJUSTABLE SETPOINT THE SYSTEM SHALL BE IN OCCUPIED

MODE AND WHEN THE AMBIENT LIGHT IS BELOW AN

ADJUSTABLE SETPOINT THE SYSTEM SHALL BE IN

A FIRE PROTECTION OVERRIDE.

DURING UNOCCUPIED PERIODS. C. THE THERMOSTATS SHALL DETERMINE

UNOCCUPIED MODE.

1 municulus muni

1 minument of the second of th

														KITCH	IEN HOOD	SCHEDULE	E										
						Exhau	ıst Plenum							Perfora	ated Suppl	ly Plenums	3				Basis for Design						
			Duct Collars						Supply Supply			Supply MAU Plenum		AC Plenum													
		Max Cooking	Airflow					Filter Face				Plenum	Plenum	Airflow		Duct Col	llars	Airflow	Du	ct Collars	No. of Ligh	t Approximate	Furnished	Installed			
Tag	Description	Temp.	[CFM]	SP [in. w.c]	No.	Width	Length	Vel.	Length	Width	SP [in. w.c.]	Length	Width	[CFM]	No.	Width	Length	[CFM]	No.	Diameter	Fixtures	Weight [lbs]	Ву	Ву	Manufacturer	Model	Remarks
HD-1	Type I Canopy Hood with Perforated MAU and AC Supply Plenums	450°F	2925	0.77	2	10"	14"		13' - 0"	4' - 3"	0.1	14' - 0"	22"	1775	4	10"	16"	600	7	8"	9	950	THS	GC	Captive-Aire	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH (1) 16"X16" AND (7) 20" X 16" HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR & PREWIRE PACKAGE. HOOD IS DESIGNED TO COMPLY WITH FBC MECHANICAL 507.2.1.1

																ROOFTOP UN	T SCHEDULE									
					Airflow	I		Coo	ling Capacity		He	ating Capacit	ty							Electrica	I			Basis for I	Design	
		Nominal Capacity		Total	OA	ESP	Total	Sensible	EAT [Deg. F]	Cond. EAT	Input	Output	EAT N	Number of	Number of	Refrigerant	Refrigerant	Approximate				Furnished	Installed			
Tag	Description	[Tons]	EER	[CFM]	[CFM]	[in. w.c.]	[MBH]	[MBH]	DB WB	[Deg. F]	[MBH]	[MBH]	[Deg. F] Co	ompressors	Circuits	Type	Charge	Weight [LBs]	MOCP	FLA	V/P/H	Ву	Ву	Manufacturer	Model	Remarks
RTU-1	Kitchen Rooftop Unit	6	12.6	2200	500	1.0	70	42	80 70	96	80	64	65	1	1	R-410A	14.3 LBS	1300	50 A	32.3 A	208/3/60	HES	GC	Trane	YHC072	FURNISHED FOR PROPANE OPERATION WITH COMPARATIVE ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF, HINGED PANELS, MERV 8 FILTERS, HAIL GUARD, CIRCUIT BREAKER,UNPOWERED CONVENIENCE RECEPTACLE, SUPPLY AIR SMOKE DETECTOR, LIGHTSTAT WITH REMOTE SENSOR, AND ROOF CURB
RTU-2	Dining Rooftop Unit	8-1/2	13	3000	1000	1.0	96	60	81 70	96	120	96	62	2	2	R-410A	25 LBS	1300	50 A	42.0 A	208/3/60	HES	GC	Trane	\ \ <u>\</u>	FURNISHED FOR PROPANE OPERATION WITH COMPARATIVE ENTHALPY ECONOMIZER W/BAROMETRIC RELIEF, HINGED PANELS, MERV 8 FILTERS, HAIL GUARD, CIRCUIT BREAKER,UNPOWERED CONVENIENCE RECEPTACLE, SUPPLY AIR SMOKE DETECTOR, LIGHTSTAT WITH REMOTE SENSOR, AND ROOF CURB. FURNISH WITH BAYSENS 119AA SITH REMOTE COMBINATION TEMPERATURE/HUMIDITY



788 Morrison Columbus, Ohio 43230 Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036

ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

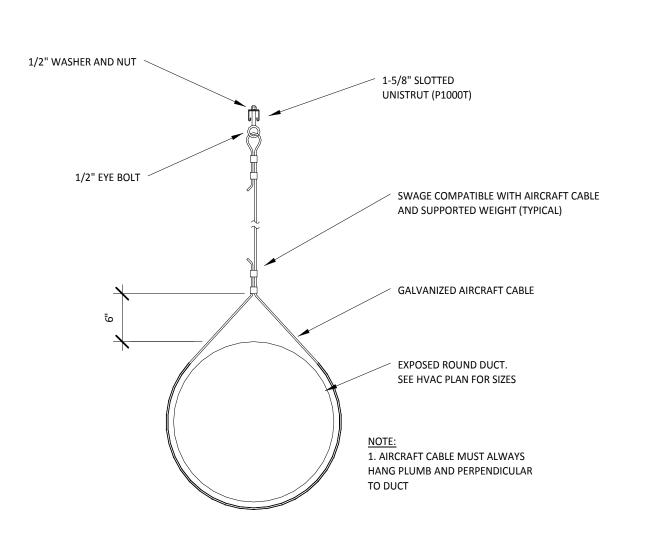
10.16.2014	Permit & Landlord Revie
1-30-15	FOR BIDDING
1-30-15	FOR BIDDING

1 12-17-14 Permit Review Comments

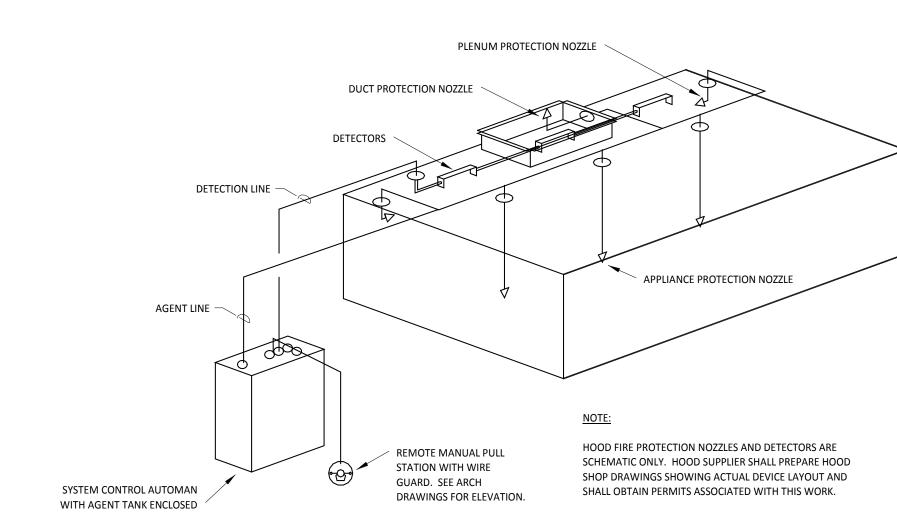
**HVAC Schedules** 

M200

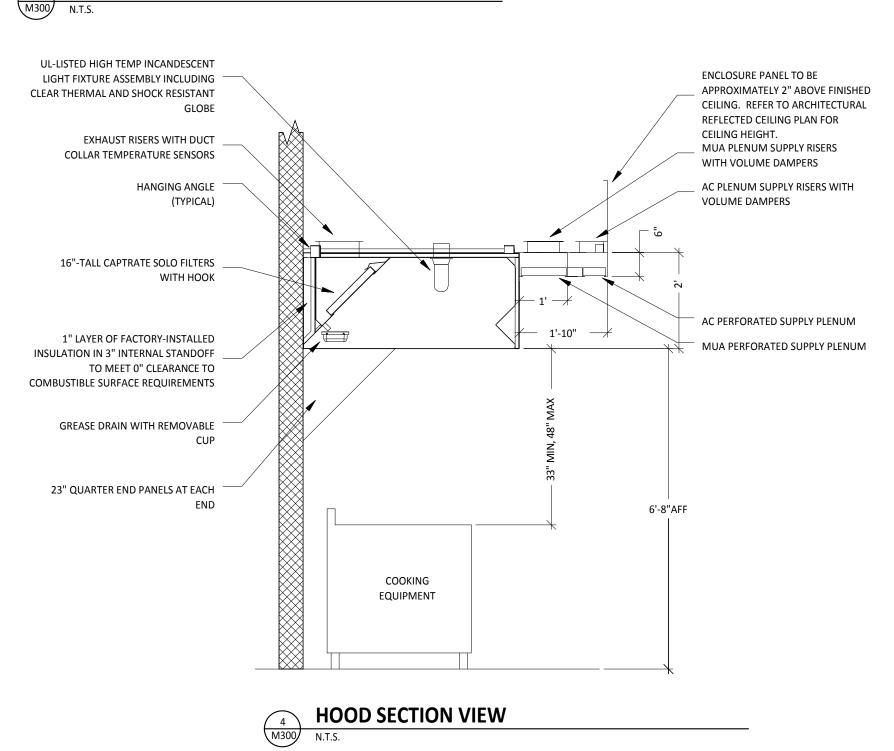
Date of Last Print:

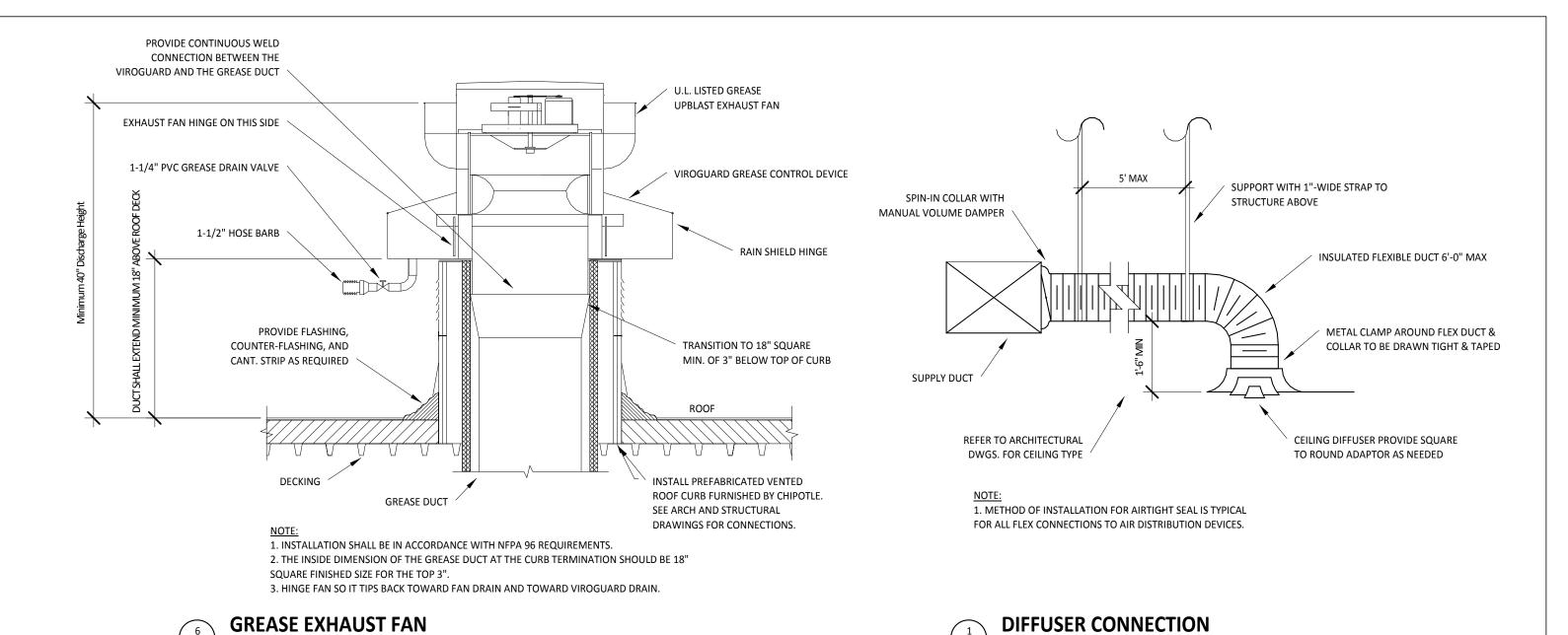


## **EXPOSED DUCT SUPPORT**



### FIRE SUPPRESSION SYSTEM SCHEMATIC





THERMAL CERAMICS FIREMASTER FASTWRAP XL OR PYROSCAT XL HAS BEEN TESTED IN ACCORDANCE WITH ASTM E2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM

INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.

2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP

GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN.

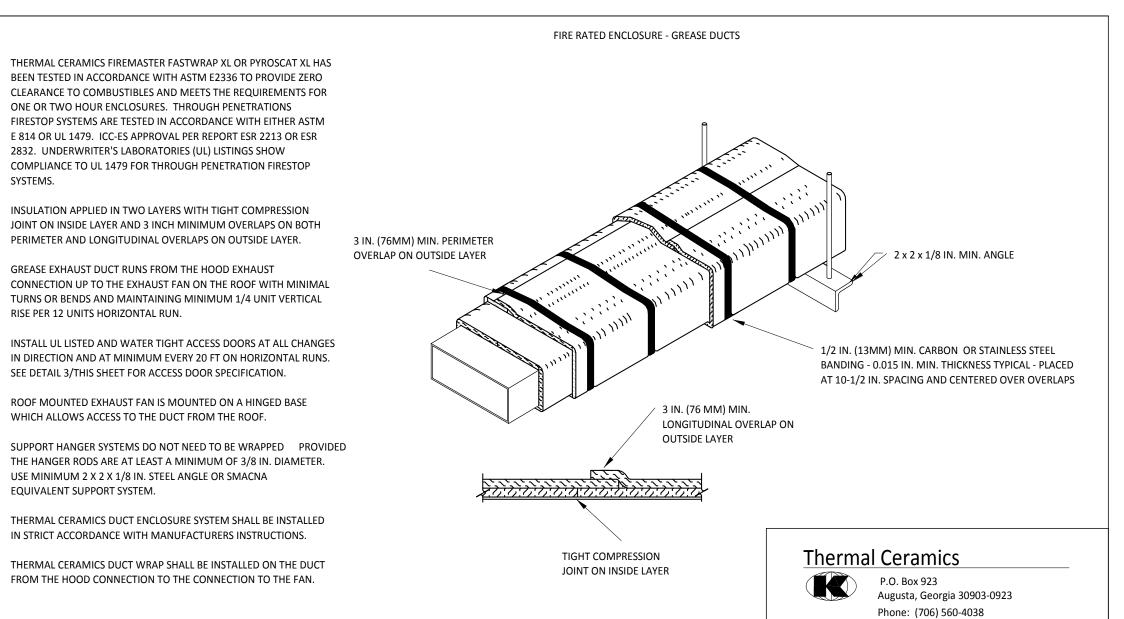
INSTALL UL LISTED AND WATER TIGHT ACCESS DOORS AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS. SEE DETAIL 3/THIS SHEET FOR ACCESS DOOR SPECIFICATION.

ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.

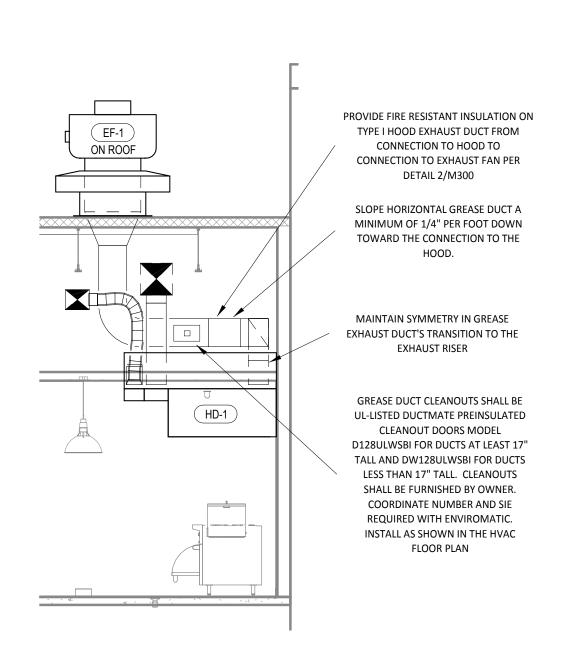
SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.

THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

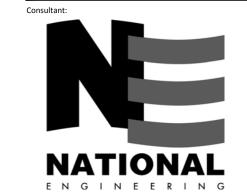
8. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.



# FIREMASTER DUCT WRAP - UL HNKT-G18 N.T.S.







43230 Columbus, Ohio Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036 ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

10.16.2014 Permit & Landlord Review 1-30-15 FOR BIDDING 1401051

Date of Last Print:

**HVAC** Details

#### PLUMBING SPECIFICATIONS

SECTION 15055 - COMMON PIPING REQUIREMENTS

PART 1 - GENERAL A. SECTION REQUIREMENTS

1. Comply with the requirements of the Building Code and the local authority having jurisdiction.

PART 2 - PRODUCTS 2.1 SUPPORTING DEVICES

- A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for
- hangers in direct contact with copper tubing. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection
- C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and

FM approval for fire protection systems.

PART 3 - EXECUTION 3.1 INSTALLATION

- A. Install piping free of sags and bends.
- Install fittings for changes in direction and branch connections.
- Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
- Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall
- Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
- Install unions adjacent to each valve and at final connection to each piece of equipment. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
- Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
- Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
- 3.2 HANGERS AND SUPPORTS A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in
- Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight
- concrete or in slabs less than 4 inches thick. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete
- or in slabs less than 4 inches thick.
- Support fire protection system piping independent of other piping.
- E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from

movement will not be transmitted to connected equipment. END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.
- B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84. PART 2 - PRODUCTS
- 2.1 PIPE INSULATION
- A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor
- B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.

PART 3 - EXECUTION

- A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
- B. Insulate fittings, valves, and specialties.
- C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
- D. Coat glass fiber pipe insulation ends with vapor barrier coating.
- E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing. F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
- G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
- H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
- Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
- Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with
- vapor barrier compound. K. Interior Piping System Applications: Insulate the following piping systems:
- 1. Domestic hot and cold water.
- 2. Exposed sanitary drains of fixtures for the disabled.
- Refrigerant piping. Do not apply insulation to the following systems, materials, and equipment:
- 1. Flexible connectors. Fire protection piping systems.
- Sanitary drainage and vent piping.
- 4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled. 5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow
- M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and
- 1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.

2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.

END OF SECTION 15080

SECTION 15110 - VALVES PART 1 - GENERAL (Not Applicable) PART 2 - PRODUCTS

2.1 GENERAL DUTY VALVES

- A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
- B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
- C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded
- D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze
- E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
- F. Valves for Steel Pipe: Threaded ends.

PART 3 - EXECUTION

- 3.1 INSTALLATION A. Use gate and ball valves for shutoff duty and ball for throttling duty.
- B. Locate valves for easy access and provide separate support where necessary.
- C. Install valves for each fixture and item of equipment.
- D. Install valves in horizontal piping with stem at or above center of pipe. E. Install valves in a position to allow full stem movement.
- F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
- END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING

PART 1 - GENERAL

- 1.1 SECTION REQUIREMENTS
- A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping
- 1. Service Entrance Piping: 100 psig.
- 2. Domestic Water Piping: 80 psig.
- B. Comply with NSF 14 "Plastic Piping Components and Materials." C. Comply with NSF 61 "Drinking Water System Components -- Health Effects."
- PART 2 PRODUCTS
- 2.1 PIPES AND TUBES A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
- B. PVC Plastic, Water Pipe: ASTM D 1785, Schedule 80, plain ends.
- 2.2 FITTINGS A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
- B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
- C. Bronze Flanges: ASME B 16.24, Classes 150 and 300. D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads
- complying with ASME B 1.20.1. E. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
- 2.3 JOINING MATERIALS
- A. Solder Filler Metal: ASTM B 32, lead free. B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.
- C. Solvent Cements: As recommended by manufacturer. D. Plastic Pipe Seals: ASTM F 477, elastomeric gasket

PART 3 - EXECUTION

- 3.1 VALVE APPLICATIONS A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or
- equipment connections and where indicated. B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing
- fixture not having stops on supplies, and elsewhere as indicated.
- C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
- D. Install swing check valve on discharge side of each pump and elsewhere as indicated. E. Install ball valves in each hot water circulating loop and discharge side of each pump.
- 3.2 PIPING INSTALLATIONS A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended
- by pipe manufacturer. B. Support vertical piping at each floor.
- 3.3 INSPECTING AND CLEANING A. Inspect and test piping systems following procedures of authorities having jurisdiction.
- B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction. END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

- A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head. B. Comply with NSF 14 "Plastic Piping Components and Related Materials". PART 2 - PRODUCTS
- 2.1 PIPES AND TUBES A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
- 2.2 FITTINGS A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and
- vent pipe patterns. PART 3 - EXECUTION
- 3.1 PIPING INSTALLATION
- A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer. B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains. 3.2 INSPECTION
- A. Inspect and test piping systems following procedures of authorities having jurisdiction. END OF SECTION 15150

SECTION 15198 - PROPANE GAS PIPING

- PART 1 GENERAL 1.1 SECTION REQUIREMENTS
- A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code. PART 2 - PRODUCTS
- 2.1 PIPE, TUBE, AND SPECIALTIES
- A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends. B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
- C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
- D. Gas Stops: AGA certified, bronze-body, plug type with bronze plug, for 2-psig E. or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends
- complying with ASME B1.20.1. F. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, straightaway pattern, square head,
- tapered-plug type. G. Gas Pressure Regulators: ANSI Z21.18, single stage, steel jacketed, corrosion resistant pressure
- regulators. Include atmospheric vent, elevation compensator. Regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated. 1. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
- H. Flexible Connectors: ANSI Z21.24, copper alloy.
- I. Strainers: Bronze body, Y-pattern, full size of connecting piping. Include stainless-steel screens with 3/64 inch perforations and a pressure rating of 125-psig- minimum, WOG working pressure. PART 3 - EXECUTION
- 3.1 INSTALLATION

END OF SECTION 15198

- A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
- B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.
- C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply. D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas
- meters. Locate where readily accessible to permit cleaning and emptying. Do not install where condensate would be subject to freezing.
- E. Install gas piping at uniform slope of 0.1 percent upward toward risers. F. Use eccentric reducer fittings to make reductions in pipe sizes. Install fittings with level side down.
- G. Connect branch piping from top or side of horizontal piping.
- H. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
- I. Install valves in accessible locations, protected from damage. Tag valves with metal tag indicating piping supplied. Attach tag to valve with metal chain.
- J. Install gas valve upstream from each gas pressure regulator. Where two gas-pressure regulators are
- installed in series, valve is not required at second regulator. K. Connect gas piping to equipment and appliances with shutoff valves and unions. nstall gas valve upstream from and within 72 inches of each appliance using gas. Install union or flanged connection
- downstream from valve. L. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging", and requirements of authorities having jurisdiction.

SECTION 15410 - PLUMBING FIXTURES

- PART 1 GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: None. B. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and
- water consumption of plumbing fixtures.
- C. Comply with applicable standards below: 1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
- 2. National Sanitation Foundation Construction: NFS2.
- 3. Porcelain Enameled Fixtures: ASME A112.19.4M. 4. Slip Resistant Bathing Surfaces: ASTM F 462.
- 5. Stainless Steel Fixtures: ASME A112.19.3M. 6. Vitreous China Fixtures: ASME A112.19.2M.
- PART 2 PRODUCTS 2.1 Refer to the fixture schedule on drawing P200
- PART 3 EXECUTION 3.1 INSTALLATION
- A. Install fitting insulation kits on fixtures for the disabled.
- B. Install fixtures with flanges and gasket seals. C. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of
- compartment. Install other actuators in locations that are easy for the disabled to reach. D. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports
- are specified, and to building wall construction where no support is indicated. E. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall
- construction, fasten to reinforcement built into walls.
- F. Fasten wall mounted fittings to reinforcement built into walls. G. Fasten counter mounted plumbing fixtures to casework.
- H. Secure supplies to supports or substrate within pipe space behind fixture. I. Set shower receptors and mop basins in leveling bed of cement grout.
- J. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture. K. Install water supply stop valves in accessible locations.
- L. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes,
- unless otherwise indicated. M. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within
- cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings. N. Seal joints between fixtures and walls, floors, and counters using sanitary type, one part, mildew resistant, silicone sealant. Match sealant color to fixture color.
- O. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
- P. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B. END OF SECTION 15410

SECTION 15425 - PLUMBING SPECIALTIES

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS A. Minimum Working Pressure Rating for Products:

finished floor

- 1. Water Distribution Piping: 80 psig. B. Submittals: Product Data.
- PART 2 PRODUCTS 2.1 Refer to fixture schedule on drawing P200. PART 3 - EXECUTION
- 3.1 INSTALLATION A. Install backflow preventers at each water-supply connection to mechanical equipment and where required
- by authorities having jurisdiction. B. Install hose bibbs with integral or field-installed vacuum breaker. C. Install floor drains at low points of surface areas and where indicated. Set tops of drains flush with
- 1. Trap drains connected to sanitary building drain. Install drain flashing collar or flange so no leakage occurs between drain and adjoining flooring. Maintain
- END OF SECTION 15425



Columbus, Ohio 43230 Phone: (614) 751-9610 Fax: (614) 552-5240 Contact: Andy Demancsik (614) 328-2036

ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH

REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..

PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND

CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Permit & Landlord Review 10.16.2014 1-30-15 FOR BIDDING

Plumbing Specifications

Date of Last Print:

### # PLAN NOTES

- 1 CONNECT TO THE EXISTING 1-1/2" DOMESTIC WATER SERVICE WITH UPSTREAM METER AND REDUCED PRESSURE BACKFLOW PREVENTER. GC TO VERIFY LOCATION.
- 2 PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- PROVIDE WATER HEATER DWH-1 PER DETAIL 1/P300.

  PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P300. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE
- MAKER AND SODA CARBONATOR AS SHOWN.

  5 PROVIDE 1/2" FILTERED WATER TO THE ICE MAKER AT 56" AFF.
- 6 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- 7 CONNECT TO THE EXISTING 1" PROPANE GAS LINE.
- 8 PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 2/P300.
- 9 SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P300. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- 10 PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
- 11 PAINT INTERIOR AND EXTERIOR EXPOSED GAS PIPING WITH ZINC CHROMATE PRIMER AND ONE FINAL COAT OF EXTERIOR ENAMEL. FINAL COLOR SHALL MATCH SURROUNDING FINISHES
- 12 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE
- ARCHITECTURAL ELEVATION FOR DETAIL.

  13 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE
- ARCHITECTURAL ELEVATION FOR DETAIL.

  14 PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 10/P300.
- 15 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 4/THIS SHEET.
- PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS USG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
- 17 PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
- 18 PROVIDE WATER HAMMER ARRESTOR ON WATER SUPPLY PIPE TO WATER CLOSET.
- 19 CONCEAL RESTROOM DOMESTIC WATER PIPES IN THE DEMISING WALL.
- 20 PROVIDE DOMESTIC WATER PIPES ABOVE THE RESTROOMS BELOW THE TOP OF THE PLYWOOD BOX ELEMENT UNLESS NOTED OTHERWISE.
- PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
- 22 PROVIDE CIRCUIT-SETTER BALANCE VALVE WITH STRAINER IN PIPE TO FLUSH VALVES UPSTREAM FROM ET-2. ADJUST THIS VALVE SO THAT THE EXPANSION TANK REFILLS IN 30-45 SECONDS FOLLOWING A SINGLE FULL WATER CLOSET
- 23 PROVIDE WATER SOFTENER AS SHOWN IN DETAIL 5/THIS SHEET.
- 24 PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 9/P300.

#### PLUMBING GENERAL NOTES

- A GENERAL NOTES APPLY TO PLUMBING SHEETS.
- B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE,
  LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING
  JURISDICTION. SEE SHEET A000 FOR THE PREVAILING CODES.
- C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
- D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
- PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
- F PROVIDE STOP VALVES AT FIXTURES.

CONNECTION SIZE.

- G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
- H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE
- I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND
- THE INTERIOR WALL FINISHING MATERIAL.

  J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM
- PIPING PER THE SPECIFICATIONS AND DETAIL 6/P300.

  K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
- L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
- M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
- N THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- O PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
- P ALL GAS FIRED EQUIPMENT WILL OPERATE ON PROPANE. PROVIDE NECESSARY FITTINGS FOR PROPANE USAGE.

- AFF ABOVE FINISHED FLOOR
  AFG ABOVE FINISHED GRADE
  CD CEILING DIFFUSER
- EXT'G EXISTING FCO FLOOR CLEANOUT
- FD FLOOR DRAIN FS FLOOR SINK

**ABBREVIATIONS** 

- GCO GRADE CLEANOUT
- GC GENERAL CONTRACTOR
- HES TENANT'S HVAC EQUIPMENT SUPPLIER
  TAB TENANT'S TEST AND BALANCE VENDOR
- TCC TENANT'S CABLING CONTRACTOR
  TES TENANT'S KITCHEN EQUIPEMNT SUPPLIER
- THS TENANT'S HOOD SUPPLIER
- TLS TENANT'S LIGHT/LAMP SUPPLIER
- TMB TENANT'S MENU BOARD SUPPLIER
- TMS TENANT'S MILLWORK SUPPLIER
  TP TENANT'S PHONE SUPPLIER
- TRS TENANT'S RAILING SUPPLIER
- TENANT'S SIGN VENDOR
  TENANT'S WALK-IN COOLER SUPPLIER

### SOFTENER INSTALLATION NOTES

A. DETAIL IS BASED ON CUNO MODEL CFSM1254E.

PLUMBING SYMBOLS

\_\_\_\_\_ - \_\_\_\_ − \_\_\_\_ ELBOW UP

 $\leftarrow$  GAS

 $\leftarrow$  — — G — — — GAS (ON ROOF)

(WM)

(GM)

( XX-# )

FINISHED FLOOR

ELBOW DOWN

∠ DOMESTIC COLD WATER

→ - - — DOMESTIC HOT WATER (110 DEGREES)

PLAN NOTE: SEE PLAN NOTES LISTED ON

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

**EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE** 

ON SHEET P200 FOR EQUIPMENT

SOLENOID-OPERATED VALVE

WALL HYDRANT/ROOF HYDRANT

CIRCUIT-SETTER BALANCE VALVE RATED

THE SAME SHEET FOR NOTE MEANING

CONNECT TO EXISTING

WATER METER

INFORMATION

CHECK VALVE

FOR POTABLE WATER

VALVE

**GAS METER** 

 $\longrightarrow$  DOMESTIC HOT WATER RECIRC.

- B. CONNECT SOFT WATER FEED TO WATER HEATER PRIOR TO
- VALVE.
  C. SEE WATER HEATER DETAIL FOR

RECIRCULATION SYSTEM CHECK

CONTINUATION

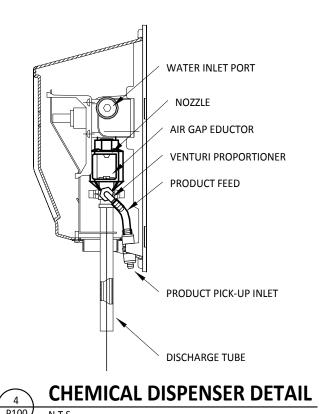
#### SOFTENER DETAIL NOTES

- 1 DECINITANIA
- 1. RESIN TANK.
- 2. BRINE TANK.
- 1" BALL VALVE.
   1" DOMESTIC COLD WATER. (74" AFF)

WATER SOFTENER DETAIL

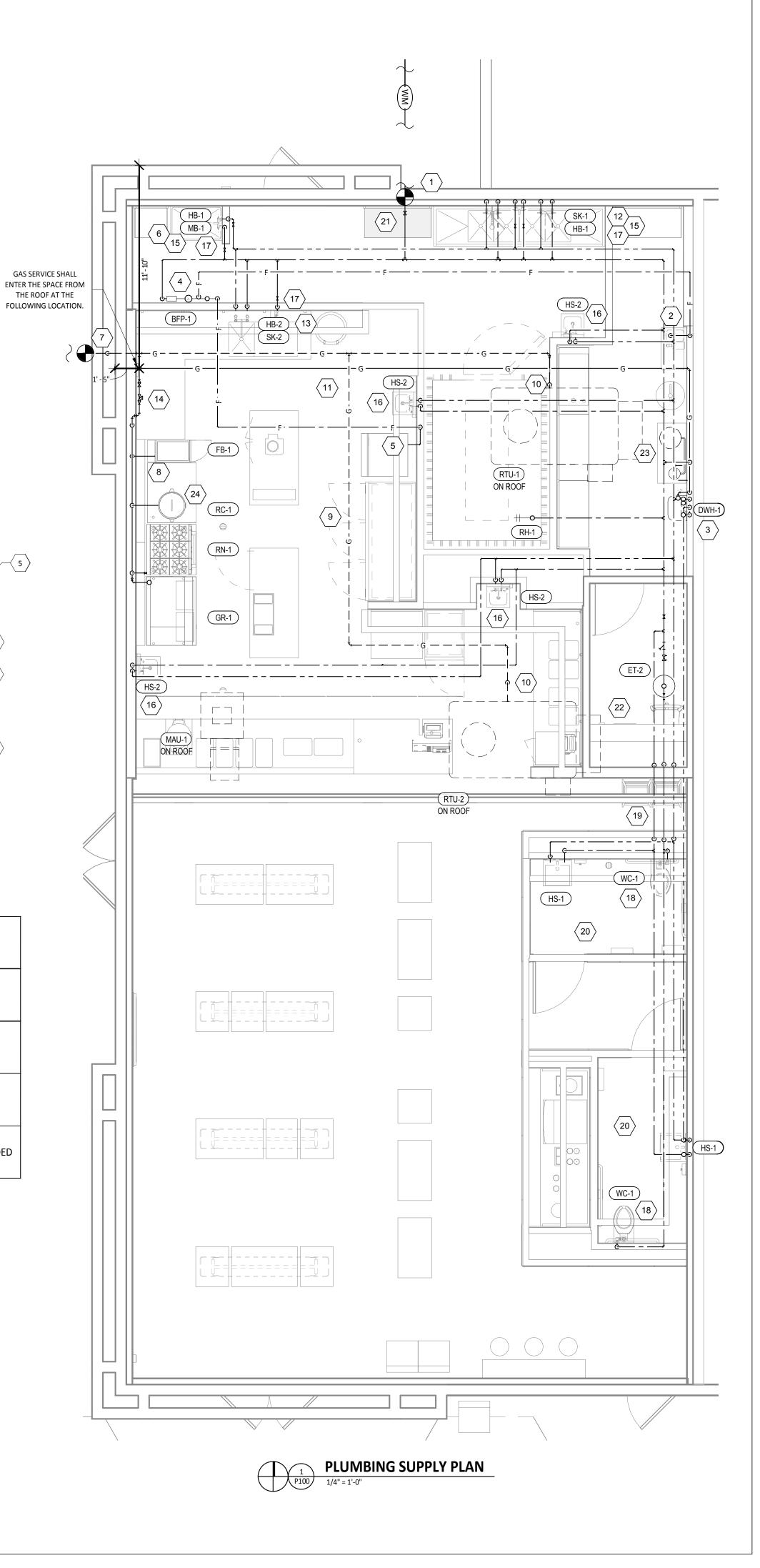
- 5. 1" SOFT WATER FEED TO WATER HEATER. (74" AFF)
- 6. 3/4" SCH 80 PVC.
- 7. PLUG UNIT INTO GFCI PROTECTED OUTLET

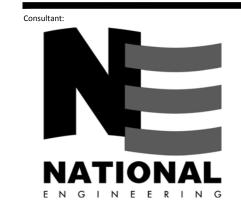
### 8. DUNNAGE RACK



#### MATERIAL SCHEDULE ALLOWABLE APPLICATION CATEGORY MATERIAL TYPE L WATER ABOVE GRADE **SUPPLY PIPE COPPER TUBE** SCH. 40 STEEL PIPE, CONCEALED MALLEABLE IRON THREADED FITTINGS PROPANE GAS SCH. 40 STEEL PIPE, **EXPOSED** MALLEABLE IRON THREADED FITTINGS, PAINTED

FLOOR DRAIN — W





788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036
ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC.

1401 WYNKOOP STREET, SUITE 500
DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

MIRAMAR, FL 31 SW 160th Ave. Suite 101

Issue Record:
10.16.2014 Permit & Landlord Review
1-30-15 FOR BIDDING

Revisions:

Drawn: Checked:

AMD MPC

Project No.

P100

Plumbing Plan Water &

Date of Last Print:

# PLUMBING SYMBOLS

ELBOW UP → ELBOW DOWN  $\longleftarrow$  — — SANITARY WASTE ∠ GREASE WASTE 

PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

CONNECT TO EXISTING

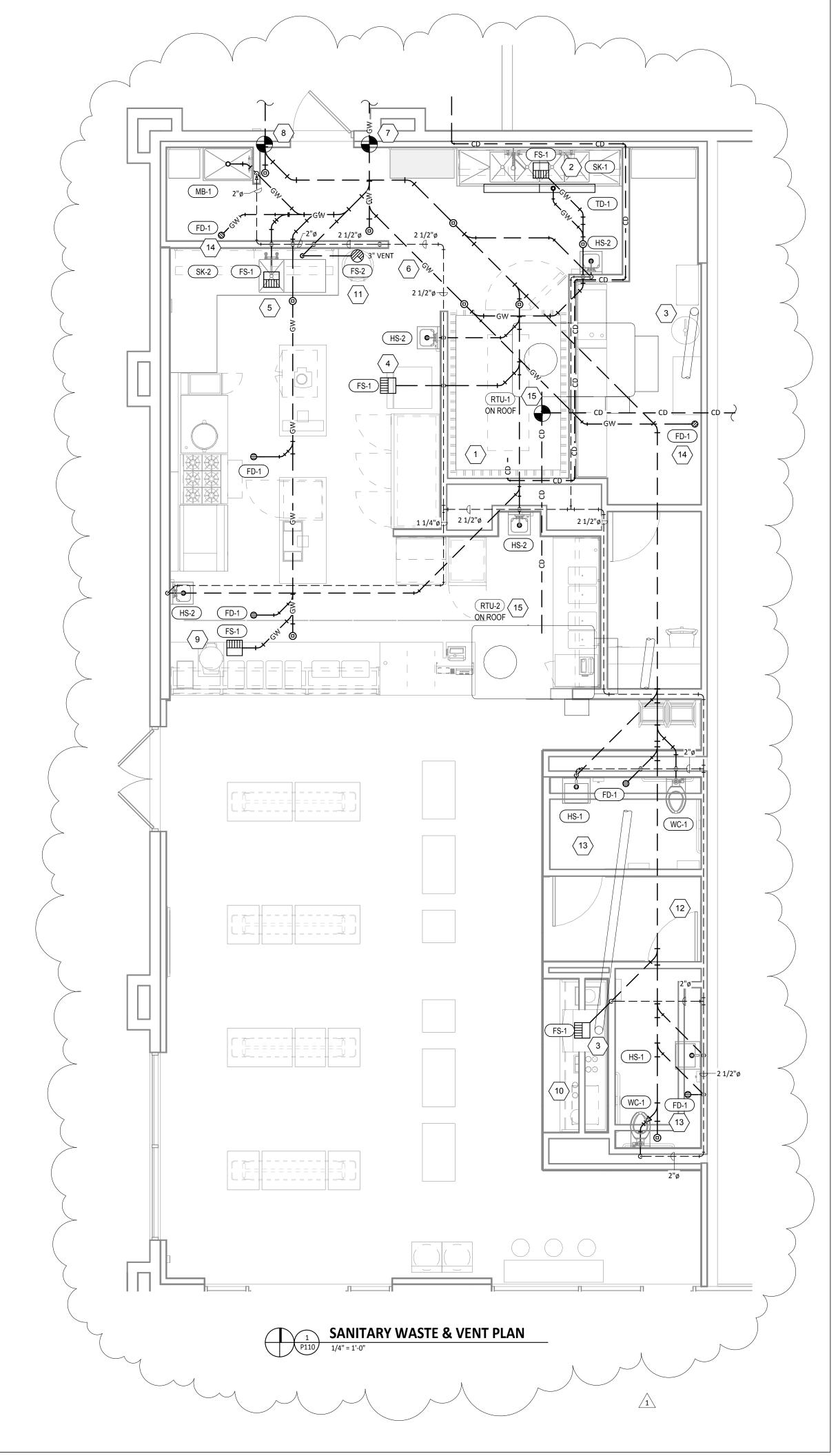
FLOOR DRAIN FLOOR SINK

CLEANOUT EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION

MATERIAL SCHEDI	JLE	
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
SANITARY	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
WASTE & VENT PIPE	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

### # PLAN NOTES

- 1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO RAIN WATER LEADER AT THE REAR OF THE SPACE AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP.
- 2 PROVIDE DRAIN CONNECTIONS TO THE FOUR COMPARTMENT SINK PER DETAIL 4/P300. 3 PROVIDE A 6" SCHEDULE 40 PVC CONDUIT SODA LINE SLEEVE UNDER THE SLAB FROM THE BAG-IN-BOX RACK TO THE SODA FOUNTAIN PER DETAIL 7/P300. SEE THE ARCHITECTURAL FLOOR PLAN FOR THE LOCATIONS OF THESE
- 4 PROVIDE DRAINAGE PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S
- INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. 5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- 6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 8/P300. CONNECT TO EXISTING VENT IF POSSIBLE. 7 CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING 1250 GALLON INTERCEPTOR.
- 8 CONNECT TO EXISTING 4" SANITARY SEWER.
- 9 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. 10 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- 11 PROVIDE EXPOSED INDIRECT DRAIN FROM THE SALAD SPINNER DRAIN CONNECTION TO THE FLOOR SINK BELOW. DRAIN THROUGH AN AIR GAP.
- 12 HOLD HORIZONTAL VENT PIPES ABOVE THE RESTROOM BELOW THE TOP OF THE PLYWOOD BOX ELEMENT. PAINT EXPOSED VERTICAL VENT PIPES TO MATCH THE ROOF DECK.
- 13 DO NOT PROVIDE WALL CLEANOUTS OFF TILE AND PLYWOOD SURFACES. IF A WALL CLEANOUT IS REQUIRED IN A TILE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
- 14 PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 12/P300.
- 15 PROVIDE 3/4" PVC CONDENSATE DRAIN LINE FROM ROOFTOP UNIT TO EXISTING CONDENSATE DRAIN LINE ON ROOF AS SHOWN. DRAIN LINE SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT AND BE SUPPORTED ON ROOF PER DETAIL 5/P300.





Columbus, 43230 Ohio Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036 ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



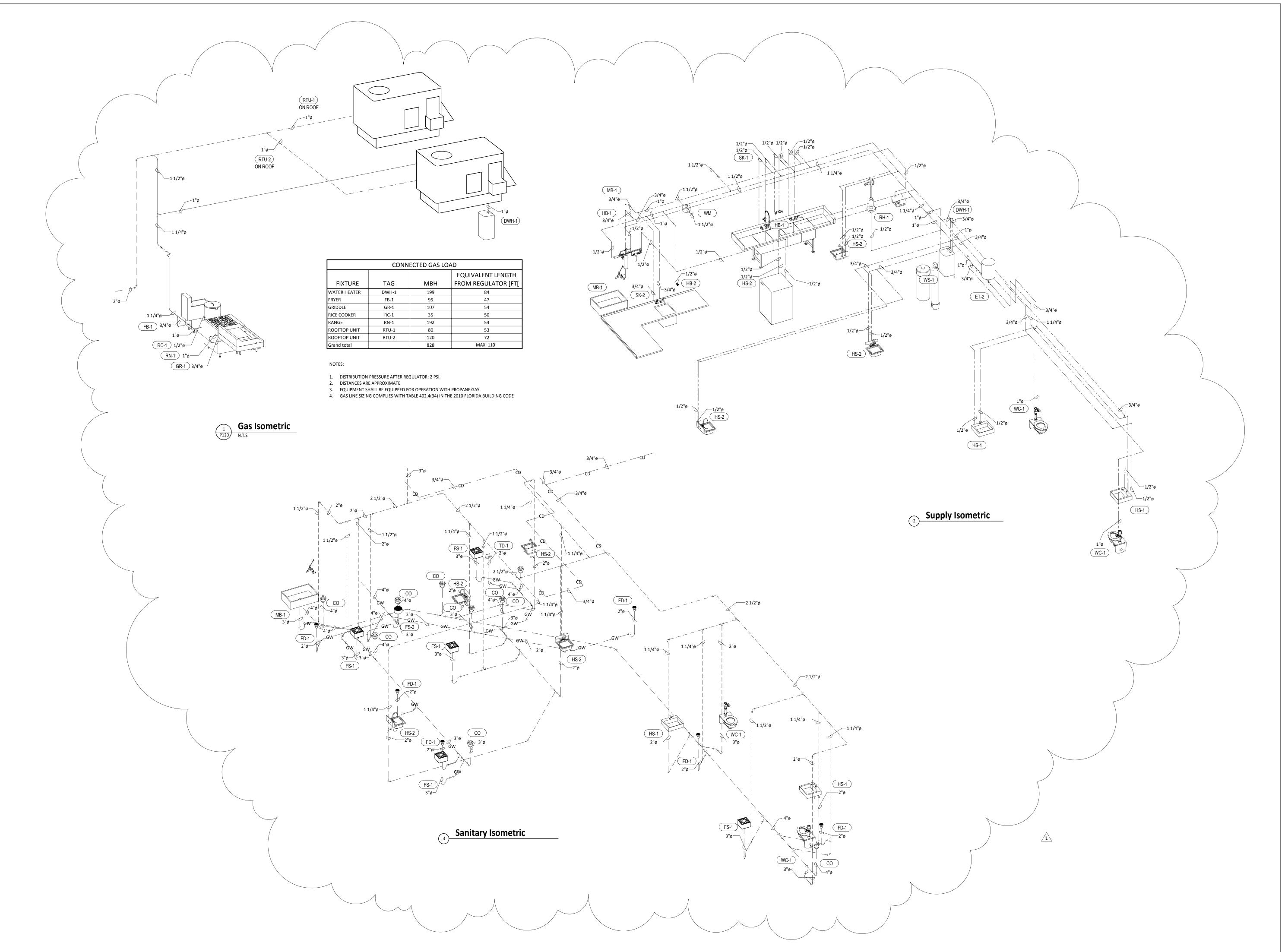
CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Issue Record:	
10.16.2014	Permit & Landlord Review
1-30-15	FOR BIDDING
-	
Revisions:	
12-17-14	Permit Review Comments
	-
Drawn:	Checked:
AMD	MPC

Plumbing Plan Waste & Vent

P110

Date of Last Print:





788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036
ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH
REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC...
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND
CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH
CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC.
1401 WYNKOOP STREET, SUITE 500
DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

MIRAMAR, FL 231 SW 160th Ave. Suite 101 Miramar, FL 33027

Permit & Landlord Review FOR BIDDING
Permit Review Comments
Checked:
RTJ

P120

Date of Last Print:

						PLUMBING FIXTURE SCHEDULE								
		FURNISHED	INSTALLED					С	ONNECTION SI	ZES		SUBTOTAL F	IXTURE UNITS	
TAG	FIXTURE	ВҮ	ВҮ	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	HW	CW	WASTE	HW	CW	Total	SAN
FP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1		1/2"		0	1	0	0
T-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1		3/4"		0	0	0	0
T-2	EXPANSION TANK	GC	GC	AMTROL	WX-200	14.0 GALLON PRE-CHARGED EXPANSION TANK WITH 4.1 GALLON ACCEPTANCE FROM 60 TO 40 PSI.	1		3/4"		0	0	0	0
D-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	6			2"	0	0	0	12
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	5			3"	0	0	0	25
S-2	FLOOR SINK	GC	GC	SIOUX CHIEF	860-3P_3	HIGH CAPACITY PVC FLOOR DRAIN WITH PVC OPEN-QUARTER STRAINER AND ALUMINUM DOME BOTTOM STRAINER	1			3"	0	0	0	5
HB-1	HOSE BIBB	TES	GC	T&S	B-2345-01-XX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"		3	3	4	0
HB-2	HOSE BIBB	TES	GC	T&S	B-0730	SILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET.	1		1/2"		0	1.5	1.5	0
IS-1	RESTROOM HAND SINK	GC/TES	GC	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. INSTALL PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE FURNISHED BY KES. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	2	1/2"	1/2"	1 3/4"	3	3	4	2
S-2	KITCHEN HAND SINK	TES	GC	FURNISHED BY TES		STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	6	6	8	4
B-1	MOP BASIN	GC/TES	GC	CREATIVE INDUSTRIES TERRAZZO PRODUCTS	MC3624-10	PROVIDE TERRAZZO 36"x24"x10" HIGH MOP BASIN (COLOR: ICE) WITH STAINLESS STEEL CAPS. CONTACT TERI GRENATO OR CAROLYN DEVIVO WITH CREATIVE INDUSTRIES TERRAZZO PRODUCTS AT (773) 235-9088 TO ORDER. INSTALL SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE FURNISHED BY TES.	1	1/2"	1/2"	3"	2.25	2.25	3	3
H-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZLESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1		3/4"		0	1	0	0
K-1	FOUR COMPARTMENT SINK	TES	GC	FURNISHED BY TES		FOUR-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET AND (1) MIXING FAUCET WITH 12" SWING NOZZLE	1	1/2"	1/2"		1.5	1.5	2	0
<-2	PREP SINK	TES	GC	FURNISHED BY TES		STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1				3	3	4	0
D-1	TRENCH DRAIN	GC	GC	ZURN	(2)Z883	(2) 6" X 40" HDPE TRENCH DRAINS (80" OVERALL LENGTH) WITH (2) CLOSED END CAPS, (1) 2" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATE	1			2"	0	0	0	2
C-1	WATER CLOSET	GC	GC	AMERICAN STANDARD	WC: 2257.001, SEAT: 5901.100	ADA-COMPLIANT AFWALL ELONGATED WALL-MOUNT 1.28 GPF FLUSH VALVE TOILET. INSTALL WITH SEAT HEIGHT SET AT 17" AFF. PROVIDE WITH SLOAN ECOS 8111-1.6/1.1 BATTERY-POWERED AUTOMATIC DUAL-FLUSH FLUSH VALVE AND ZURN ZN1203-N4 (ZURN ZN1203-ND4 FOR BACK-TO-BACK APPLICATIONS) SERIES WATER CLOSET CARRIER.	2		1"	3"	0	10	10	12
/S-1	WATER SOFTENER	GC	GC	CUNO	CFSM1245E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM	1		1"		0	0	0	0
-		1				11012			1	1	-	1	1	

			WATER HEAT	ER SCHEDULE - INST	ANTANEOUS			
		FURNISHED	INSTALLED					
MARK	DESCRIPTION	BY	BY	MANUFACTURER	MODEL	INPUT MBH	DELIVERY	NOTES
DWH-1	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER	GC	GC	NAVIEN	NPE-240A	199	354 GPH @ 65° RISE	PROVIDE WITH REMOTE CONTROLLER AND LEAD FREE
	HEATER							"PLUMB EASY VALVE SET". WATER HEATER IS TO BE
								PROPANE-FIRED.



788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036

ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH
REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC...
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND
CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH
CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC.
1401 WYNKOOP STREET, SUITE 500
DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

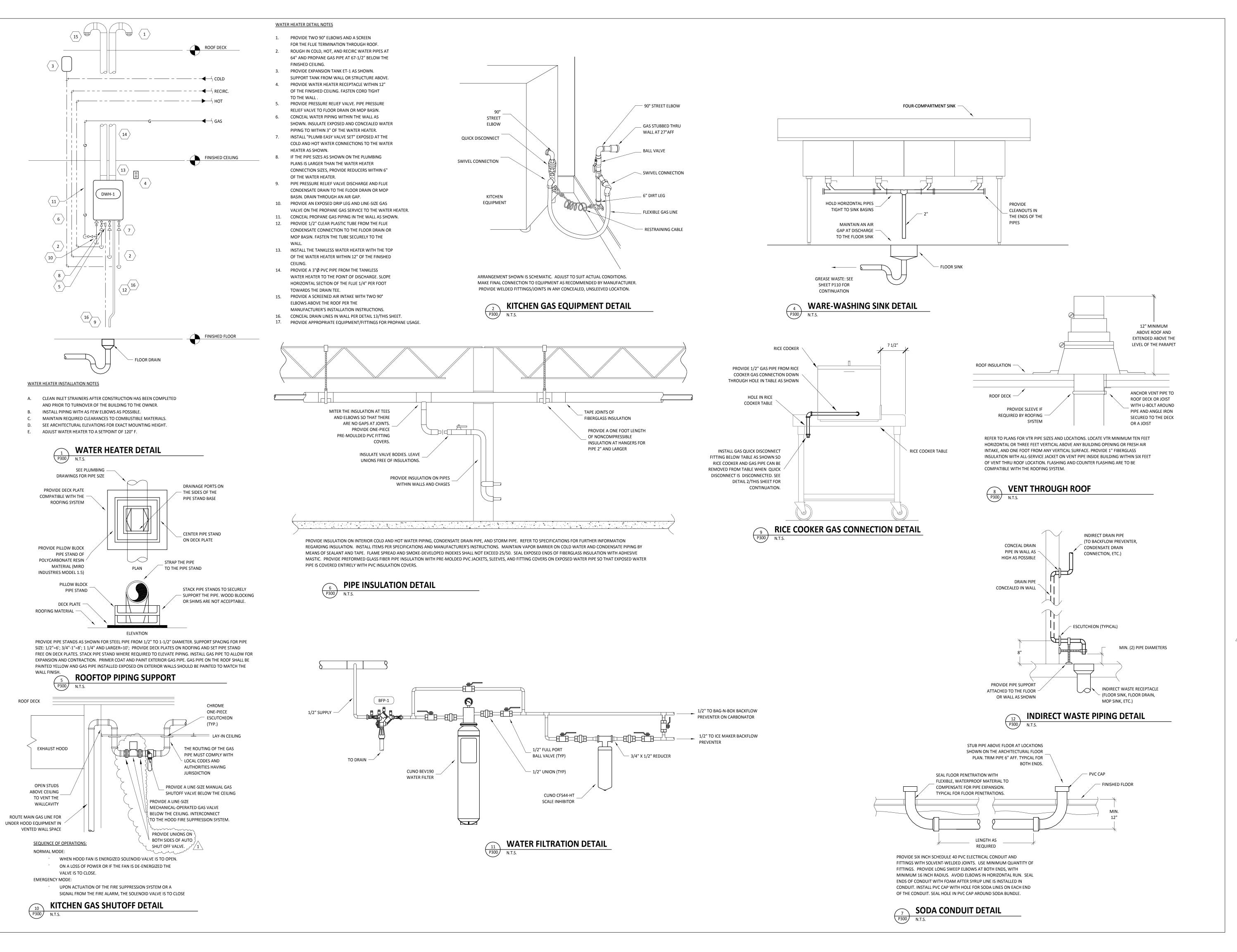
MIRAMAR, FL 231 SW 160th Ave. Suite 101

issue Record:	
10.16.2014	Permit & Landlord Review
1-30-15	FOR BIDDING
_	
# Revisions:	
1 12-17-14	Permit Review Comments
	-
Drawn:	Checked:
Diawii.	Checked.
AMD	MPC
Project No.	
1404054	

P200

Plumbing Schedule

Date of Last Print:



NATIONAL
ENGINEERING

 788
 Morrison
 Road

 Columbus,
 Ohio
 43230

 Phone:
 (614) 751-9610

 Fax:
 (614) 552-5240

 Contact:
 Andy Demancsik

 (614) 328-2036

ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC... PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC...



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014

INTERNET: WWW.CHIPOTLE.COM

MIRAMAR, FL 31 SW 160th Ave. Suite 101

Issue Record:
10.16.2014 Permit & Landlord Review
1-30-15 FOR BIDDING

Revisions:

Revisions:

12-17-14 Permit Review Comments

: Checked:
MPC

contents:

Plumbing Details

P300

1-30-15

Date of Last Print:

**ELECTRICAL SPECIFICATIONS** SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE PART 1 GENERAL 1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section. A. This section includes temporary lighting and power with luminaries, panelboards, circuit breakers. and enclosures. B. Related sections include the following: Division 16 Section "Grounding", 2. Division 16 Section "Wiring Devices" 3. Division 16 Section "Circuit Breakers" 4. Division 16 Section "Panel boards" 1.3 DEFINITIONS A. GFCI: Ground fault current interrupter. B. RMS: Root Mean Square C. SPDT: Single Pole, Double Throw 1.4 USE CHARGES A. General: Cost or use charges for temporary facilities are not chargeable to Owner, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following: Owner's construction forces. 2. Occupants of Project. Architect. Engineer. Testing agencies. 6. Personnel of authorities having jurisdiction. B. Permanent Service: Coordinate with building owner and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service. 1.5 NOTIFICATION A. Coordinate with owner to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage. 1.6 QUALITY ASSURANCE A. Standards: Comply with ANSI A10.6, NECA's 'Temporary Electrical Facilities," and NFPA 241. 1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions. 2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70. 3. Comply with OSHA standards and regulations. PART 2 PRODUCTS 2.1 MATERIALS A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light. B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 12S-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable. C. Main panelboard with disconnect. D. Temporary lighting. E. 120 volt receptacles with overcurrent protection. F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location. 1. Outdoor Locations: NEMA 250, Type 3R. PART 3 EXECUTION 3.1 INSTALLATION A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and END OF SECTION 16060 overload-protected disconnecting means. 1. Install power distribution wiring overhead and rise vertically where least exposed to damage. B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment. 1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio. 2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas. 3. Provide metal conduit enclosures or boxes for wiring devices. 2.1 WIRES AND CABLES 4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet. C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions. 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire 2. Provide one 100-W incandescent lamp every 50 feet (15 m) in traffic areas. 3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed. 4. Install lighting for Project identification sign. END OF SECTION 16011 PART 3 - EXECUTION F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 receptacle and fixture ground terminals.

SECTION 16060 - GROUNDING AND BONDING PART 1 - GENERAL 1.1 SUMMARY A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections. A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction. 1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3. B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. 1. Comply with UL 467. PART 2 - PRODUCTS 2.1 GROUNDING CONDUCTORS A. For insulated conductors, comply with Division 16 Section "Wiring Methods." B. Material: Copper. C. Equipment Grounding Conductors: Insulated with green-colored insulation. D. Grounding Electrode Conductors: Stranded cable E. Bare Copper Conductors: Comply with the following: 1. Solid Conductors: ASTM B 3. 2. Assembly of Stranded Conductors: ASTM B 8.

2.2 CONNECTOR PRODUCTS A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items. PART 3 - EXECUTION 3.1 APPLICATION

A. Use only copper conductors.

B. In raceways, use insulated equipment grounding conductors.

C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.

D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and

1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.

2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the

specified height above the floor. 3.2 EQUIPMENT GROUNDING CONDUCTORS

A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.

3.3 INSTALLATION A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid

obstructing access or placing conductors where they may be subjected to strain, impact, or damage. 3.4 CONNECTIONS

A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.

B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No.

10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors. C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL

D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for

compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.

**SECTION 16100 - WIRING METHODS** 

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated

600 V and less, and twisted-pair cable; and raceways and boxes. PART 2 - PRODUCTS

A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.

2.2 RACEWAYS

A. Wireways: Screwed cover type, with manufacturers standard finish. B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior

C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.

2.3 ENCLOSURES A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside

and out with manufacturer's standard enamel.

B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.

3.1 INSTALLATION

A. Install wires and cables according to the NECA's "Standard of Installation.

B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.

C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.

D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel. E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.

G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the

surface contours as much as practical. H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating

bushings to protect conductors. I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less

than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire. J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways,

install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. K. Stub-up Connections for Equipment: Extend conductors to equipment with intermediate metal conduit; flexible

metal conduit may be used 6 inches above the floor. L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to

3.2 IDENTIFICATION MATERIALS AND DEVICES A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment. B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with

corresponding designations indicated in the Contract Documents or required by codes and standards. Use

consistent designations throughout Project. C. Identify raceways and cables with color banding as follows:

Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.

2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas. Colors: As follows:

a. Telecommunication System: Green and yellow.

D Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical

		120/208V	277/480V	
1.	Phase A:	Black	Brown	
2.	Phase B:	Red	Orange	
3.	Phase C:	Blue	Yellow	
4.	Neutral:	White	Gray	
5.	Ground:	Green	Green	

SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: None. B. Comply with NEMA WD 1

C. Comply with NFPA 70. PART 2 - PRODUCTS

2.1 DEVICES A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities

having jurisdiction. B. Color: Per Material Schedule on sheet E100.

C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.

D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet

E. Isolated-Ground Receptacles: to the green grounding screw isolation from mounting strap. Equipment grounding contacts connected only terminal of the device with inherent electrical

F. Snap Switches: Heavy-duty, quiet type. G. Wall Plate: Per Material Schedule on sheet E100.

H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.

PART 3 - EXECUTION 3.1 INSTALLATION

A. Install devices and assemblies plumb and secure.

B. Mount devices flush, with long dimension vertical, of receptacles on top unless otherwise indicated. under single,

multigang wall plates. Protect devices and assemblies during painting.

D. Install wall plates when painting is complete.

END OF SECTION 16140

SECTION 16410 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS PART 1 GENERAL (Not Applicable)

PART 2 PRODUCTS

2.1 SWITCHES A. Enclosed, Nonfusible Switch: NEMA KS 1, Type HD, with lockable handle.

2.2 CIRCUIT BREAKERS

B. Enclosed, Molded-Case Circuit Breaker: NEMA AB 1, with thermal-magnetic trip unless otherwise indicated. Characteristics: Frame size, trip rating, number of poles, and auxiliary devices as indicated.

Interrupting Rating: PER DRAWINGS

Thermal-Magnetic Circuit Breakers, 225 A and Larger: Trip units fixed

Current-Limiting Trips: Let-through ratings less than NEMA FU 1, Class RK-5. Enclosure: NEMA AB 1, Type 1, unless otherwise specified or required to meet environmental conditions of

installed location. PART 3 - EXECUTION

**END OF SECTION 16410** 

3.1 TESTING C. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.

SECTION 16442 - PANELBOARDS PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: None. B. Comply with NFPA 70. C. Comply with NEMA PB 1

PART 2 - PRODUCTS 2.1 PANELBOARDS AND LOAD CENTERS

A. A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:

1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:

Square D Co. Eaton Corp.; Cutler-Hammer Products.

General Electric Co.; Electrical Distribution & Control Div.

d. Siemens Energy & Automation. B. Recessed, NEMA PB 1, Type 1.

Load Center Capacity: as shown on drawings.

Front: Secured to box with concealed trim clamps. 3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.

4. Bus: Hard drawn copper of 98 percent conductivity C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating,

air-conditioning, and refrigerating equipment. D. Contactors: NEMA ICS 2, Class A combination contactors.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install panelboards and accessory items according to NEMA PB 1.1. Indicate installed circuit loads in English and

Spanish on a typed circuit directory after balancing panelboard loads. B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated. C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible

or designated ceiling space. D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC

E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published

torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A. F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.

**END OF SECTION 16442** 

SECTION 16500 - LIGHTING

PART 1 - GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: Product Data for each luminaire, including lamps.

B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention

features mounted In ceiling space and on ceiling. PART 2 - PRODUCTS

2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to

prevent warping and sagging.

B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.

C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated. PART 3 - EXECUTION

3.1 INSTALLATION

A. Set units level, plumb, and square with ceiling and walls, and secure.

B. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.

C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.

D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written

instructions END OF SECTION 16500



788 Columbus, Ohio 43230 Phone: (614) 751-9610 Fax: (614) 552-5240 Contact: Andy Demancsik (614) 328-2036

ademancsik@nationalengineering.com

COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 ELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

Issue Record:

Permit & Landlord Review 10.16.2014 1-30-15 FOR BIDDING 1401051

Electrical Specifications

Date of Last Print:

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
CONDUCTORS	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	OUTDOOR OR INDOOR DAMP LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
CONDUITS	INDOOR, CONCEALED	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	INDOOR DRY LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	FLEXIBLE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFI RECEPTACLES	ORANGE DEVICE WITH STAINLESS STEEL COVER PLATE
WIRING DEVICES	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON PLYWOOD,HOT ROLLED STEEL, OR RICHLITE	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

#### **ELECTRICAL GENERAL NOTES**

- A GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
- B ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET A000 FOR THE PREVAILING
- C WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
- D INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
- E CIRCUIT EMERGENCY EGRESS LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING. F INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
- G INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
- H PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT
- I THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- J ELECTRICAL DESIGN COMPLIES WITH THE NEC 2008 CODE.

2 CONNECT LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE STORE LIGHTING SWITCH BANK.

4 VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM

5 PROVIDE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN OFFICE FOR CONTROL OF OFFICE LIGHT

TO 250W OF FLUORESCENT LIGHT FIXTURES AT 100% LIGHT OUTPUT FOR 90 MINUTES.

8 CONNECT LIGHTS TO EMERGENCY LIGHTING INVERTER SHOWN. CONNECT LIGHTS SO THAT THEY

9 PROVIDE GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN IN DETAIL 5/E110. CONNECT

10 INSTALL HANGING LIGHT FIXTURES WITH LOOSE CORD SO THAT CORD HAS 6"-12" OF SLACK. DO

11 PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT

12 CONCEAL EMERGENCY LIGHT FIXTURE ABOVE THE RESTROOM AND BELOW THE TOP OF THE

13 PROVIDE QUAD RECEPTACLE CONCEALED ABOVE BOX. CONNECT TO A SWITCHED LEG OF THE

14 PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT AS SHOWN. SEE ARCHITECTURAL ELEVATIONS FOR

15 CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING

16 INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER. ADJUST

SETTINGS SWITCHES SO THAT SWITCHES 1, 2, 3, 7, AND 8 ARE UP AND SWITCHES 4, 5, AND 6 ARE

TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT AS SHOWN. SEE ARCHITECTURAL

INSTALL DUAL-LITE LG2S EMERGENCY LIGHTING MINI INVERTERS, EM1 AND EM2, FURNISHED BY

OWNER ON WALL. CONNECT TO CIRCUIT SHOWN. INVERTER SHALL BE CAPABLE OF POWERING UP

OPERATE 24 HOURS PER DAY AS NIGHT LIGHTS AND ALSO STAY ILLUMINATED DURING A LOSS OF

ELEVATIONS FOR RECEPTACLE LOCATIONS AND HEIGHTS. RECEPTACLES SHALL BE INSTALLED INA

PLYWOOD BOX TO POWER REMOTE EMERGENCY FIXTURE. LIGHT FIXTURE SHALL NOT BE VISIBLE

FIXTURES DESIGNATED AS NIGHT LIGHTS, EXIT SIGNS, AND EMERGENCY FIXTURES.

3 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED

AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED.

6 INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER

PROVIDE ONE UNSWITCHED CONDUCTOR FOR CONNECTION TO LOCALLY-SWITCHED FIXTURES,

⟨ # ⟩ PLAN NOTES

WITH AREA SERVED.

AND RESTROOM EXHAUST FAN.

POWER AS EMERGENCY LIGHTS.

HORIZONTAL ORIENTATION.

LIGHTING CIRCUIT AS SHOWN.

NOT SECURE CORD TO HANGING ROD. TYPICAL.

FROM THE DINING ROOM AND RESTROOMS.

RECEPTACLE LOCATIONS AND HEIGHTS.

CONTACTOR PANEL PER DETAIL 2/E200.

### **ELECTRICAL SYMBOLS**

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB A-6 HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
- JUNCTION BOX

### ELECTRIC PANELBOARD

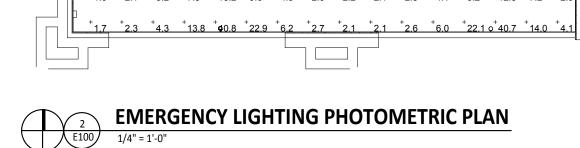
- GENERAL PURPOSE 1-POLE SWITCH
- \$ M MANUAL STARTER WITH PILOT LIGHT

(HUBBELL LHMTS1W - LIGHTHAWK PIR & US SINGLE CIRCUIT, WHITE)

- OCCUPANCY SENSOR ACTIVATED WALL SWITCH
- NEMA 5-20R DUPLEX RECEPTACLE

### **ABBREVIATIONS**

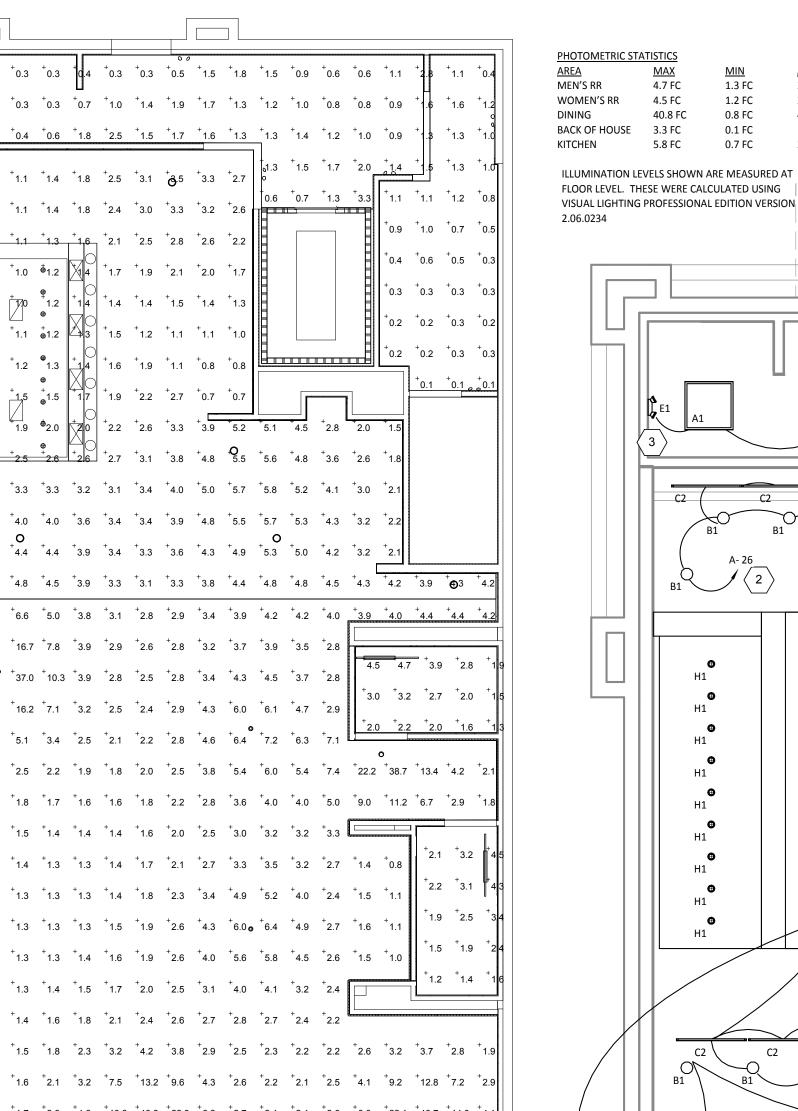
- ABOVE FINISHED FLOOR 1 STORE LIGHTING SWITCH BANK. PROVIDE ONE SWITCH PER LIGHTING CIRCUIT. LABEL SWITCHES ABOVE FINISHED GRADE
  - CONDUIT GROUND
  - GROUND FAULT CIRCUIT INTERRUPT ISOLATED GROUND
  - JUNCTION BOX NIGHT LIGHT
  - SURFACE MOUNTED WEATHERPROOF
  - GENERAL CONTRACTOR
  - TENANT'S HVAC EQUIPMENT SUPPLIER TENANT'S TEST AND BALANCE VENDOR TENANT'S CABLING CONTRACTOR
  - TENANT'S KITCHEN EQUIPEMNT SUPPLIER TENANT'S HOOD SUPPLIER
  - TENANT'S LIGHT/LAMP SUPPLIER TENANT'S MENU BOARD SUPPLIER
  - TENANT'S MILLWORK SUPPLIER TENANT'S PHONE SUPPLIER
  - TENANT'S RAILING SUPPLIER
  - TENANT'S SIGN VENDOR WCS TENANT'S WALK-IN COOLER SUPPLIER

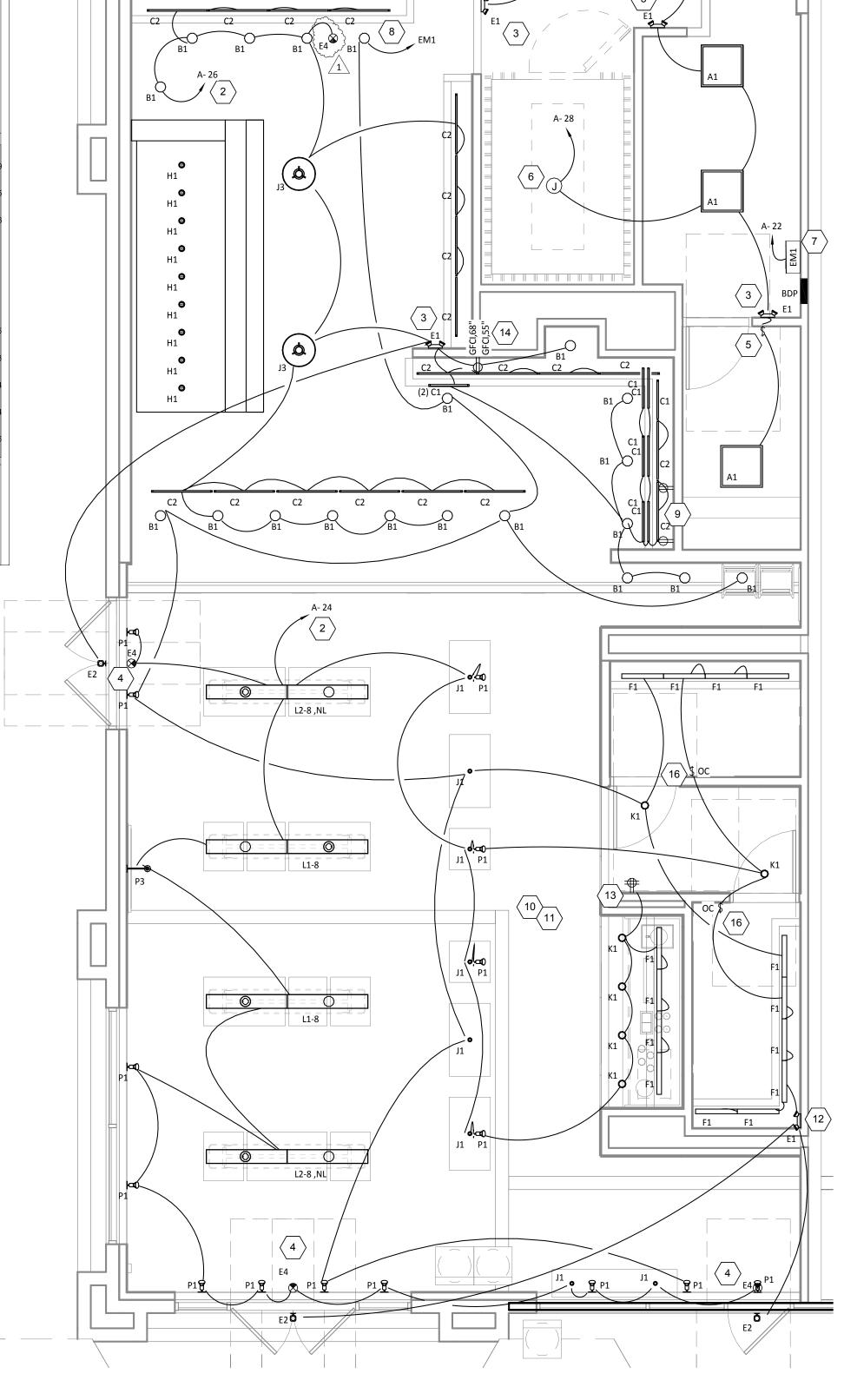


						LIGHTING FIXT	URE SCHEDULE			
			FURNISHED	INSTALLED						
TAG	TYPE	MOUNT	BY	BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	2x2 LENSED TROFFER	LAY-IN	TLS	GC	CRESCENT	22GP417FSA1BL4YK3	(4)FO17/830/ECO	120	68	
B1	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-8G24ATFL with NTM-57W/M1 Trim	(1) 12W CREE PAR38 LED (20°-2700K) W/ GU 24 BASE	120	12	
C1	LOW PROFILE FLUORESCENT 2FT	SURFACE	TLS	GC	HERA	ES22WW/BC	(1) FP14/830/ECO (INCLUDED)	120	14	FURNISHED WITH COVERS, (1) HARDWIRE BOX AND CONNECTORS, OR CORD & PLUG
C2	LOW PROFILE FLUORESCENT 3FT	SURFACE	TLS	GC	HERA	ES34WW/BC	(1) FP21/830/ECO (INCLUDED)	120	21	FURNISHED WITH COVERS, (1) HARDWIRE BOX AND CONNECTORS, OR CORD & PLUG
E1	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90 WHITE	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	EMERGENCY LIGHT - SINGLE HEAD	VARIOUS	TLS	GC	EXITRONIX	HLED-BL-WP with PMC-B-1 Mounting Plate	(1) SPECIAL LED	120	1	EXTERIOR REMOTE EMERGENCY HEAD
E4	WHITE EXIT LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	VEX-BP-WB-WH	(1) SPECIAL LED	120	4	90 MINUTE BATTERY BACKUP, FURNISHED WITWALL MOUNT
F1	2' T8 FLUORESCENT FIXTURE	SURFACE	TLS	GC	CRESCENT	C117BK1Y	(1)FO17/830/ECO	120	17	
H1	HOOD LIGHT	SURFACE	THS/TLS	GC	VAPOR PROOF LIGHT FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) CF23EL/MINI/827	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J1	PENDANT LIGHT - ADJUSTABLE HEIGHT - PAR 20	CEILING	TLS	GC	KAMMETAL	C-LP1-01	(1) 7W ECOSTORY PAR20 LED (50°-2750K) W/ GU 10 BASE	120	7	SEE ARCHITECTURAL RCP FOR STEM LENGTH
J3	PENDANT DOME LIGHT - ADJUSTABLE HEIGHT - PAR20	CEILING	TLS	GC	HI-LITE MFG. CO.	H-CW1600-2	(1) 32W CFL (2700K) W/ GU 24 BASE	120	32	WITH JELLY JAR. SEE ARCHITECTURAL RCP FOR STEM LENGTH
K1	KEYLESS DOWN LIGHT	CONCEALED	TLS	GC	SATCO	90-2467	(1) 12W ECOSTORY PAR30 LED (30°-2750K) W/ GU 24 BASE	120	12	
L1-8	LONG LIGHT - 8 TOP - PAR 20	SUSPENDED	TMS/TLS	GC	KAMMETAL	C-LL1-08	(0) FP21/830/ECO, (4) FP28/830/ECO (4) 7W ECOSTORY PAR20 LED (50°-2750K) W/ GU 10 BASE	120	140	WITH DUAL CIRCUIT SWITCHING, 223-T5-XX COLORED FLUOR. SLEEVES
L2-8	LONG LIGHT - 8 TOP - PAR 20 - W/ EM BALLAST	SUSPENDED	TMS/TLS	GC	KAMMETAL	C-LL2-08-EM	(0) FP21/830/ECO, (4) FP28/830/ECO (4) 7W ECOSTORY PAR20 LED (50°-2750K) W/ GU 10 BASE	120	140	WITH DUAL CIRCUIT SWITCHING, EM BALLAST 223-T5-XX COLORED FLUOR. SLEEVES
P1	ACCENT LIGHT - SWIVEL SPOT LIGHT - SINGLE HEAD	CEILING	TLS	GC	LUMOS	MS-4020-B-2010035-F1 w/ (1) MS-4042-A	(1) 12W ECOSTORY PAR30 LED (30°-2750K) W/ GU 24 BASE	120	12	
Р3	ACCENT LIGHT - ARTWORK LIGHT FIXTURE	WALL	TLS	GC	KAMMETAL	C-LC2-01A	(1) 12W ECOSTORY PAR30 LED (30°-2750K) W/ GU 24 BASE	120	12	

### LIGHTING FIXTURE SCHEDULE NOTES

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





2.6 FC

4.5 FC

1.0 FC

4.5 FC

40.8 FC

5.8 FC

1.2 FC

0.8 FC

0.1 FC

0.7 FC



43230 Columbus, Ohio Phone: (614) 751-9610 (614) 552-5240 Fax: Contact: Andy Demancsik (614) 328-2036 ademancsik@nationalengineering.com

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014

INTERNET: WWW.CHIPOTLE.COM

TORE

Permit & Landlord Review 10.16.2014 1-30-15 FOR BIDDING Permit Review Comments

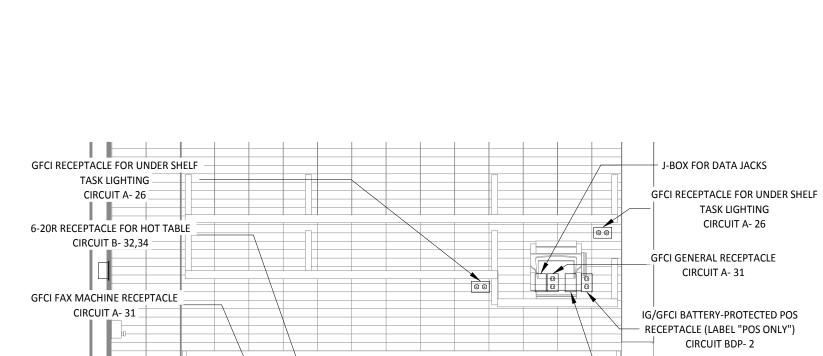
Electrical Lighting Plan

E100

Date of Last Print:



- SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW.
- ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE TWO PHASE CONDUCTORS, ONE NEUTRAL CONDUCTOR, AND ONE GROUND CONDUCTOR TO THE L14-20R RECEPTACLE, PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH L14-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED
- PROVIDE RECEPTACLES FOR TELEPHONE BACKBOARDS AND T1 ROUTER AND TWO EMPTY DUAL-GANG J-BOX WITH 1" CONDUITS ROUTED TO ABOVE OFFICE CEILING.
- PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR CIRCUITS SERVING EQUIPMENT BELOW THE KITCHEN HOOD. CONNECT SHUNT TRIP CIRCUIT BREAKER TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLE IS DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
- JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 2/E200.
- PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE ANSUL PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE ANSUL SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
- HOOD CONTROL PANEL AND ANSUL CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL
- CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. INSTALL WIRING HARNESS FURNISHED WITH WALK-IN COOLER FROM CONDENSING UNIT ON ROOF TO THE CAPSULE-PAK REFRIGERATION MODULE ON THE WALK-IN COOLER
- PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL THE 22/2 VOLUME CONTROL WIRE FURNISHED BY THE OWNER FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- 10 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATION FOR THE POS ELEVATION.
- 11 CONNECT WALK-IN COOLER LIGHTS TO CIRCUIT SHOWN.
- PROVIDE (3) 2' X 1'-6" X 3/4" PLYWOOD BACKBOARDS ABOVE THE OFFICE DOOR FOR THE TELEPHONE, SECURITY, AND T1 SYSTEMS. LOCATE ONE ABOVE AND TWO BELOW THE DROP-TILE CEILING. SEE ARCHITECTURAL ELEVATION FOR DETAILS.
- 13 PROVIDE AN EMPTY 3/4" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
- 15 SEE ARCHITECTURAL SHEETS FOR EXACT LOCATION AND MOUNTING HEIGHT FOR FAX LINE, OFFICE, AND POS RECEPTACLES. LABEL FAX LINE, OFFICE, AND POS RECEPTACLES PER ARCHITECTURAL ELEVATIONS. AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF
- RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE. PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSER CU-2.
- 17 UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
- 18 PROVIDE DOOR CHIME AND BUZZER AT 96" AFF SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION.
- 19 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE OWNER. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND
- 20 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT IS UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 21 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE.
- 22 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
- 23 PROVIDE SINGLE GANG VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE AND UNDER FOUR-COMPARTMENT SINK. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- 24 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".
- LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
- 26 PROVIDE A NEMA 5-15P FLANGED INLET (LEVITON MODEL #5239) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE
- 27 CONNECT EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN THE OFFICE.
- 28 INSTALL 16/2 SPEAKER WIRE FURNISHED BY OWNER FROM THE SPEAKER LOCATION TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS.
- 29 PROVIDE POWER CONNECTIONS UNDER PREP TABLE INSTALLED IN A METALLIC PEDESTAL MOUNTED ON TOP OF A CURB PER DETAIL 6/E110. PROVIDE GFCI DUPLEX RECEPTACLES IN THREE J-BOXES INTEGRAL TO PREP TABLES (FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTACLE). PROVIDE FINAL CONNECTION FROM PEDESTALS TO RECEPTACLES AND CARVING STATION USING LIQUIDTIGHT CONDUIT HELD TIGHT TO
- 31 PROVIDE RECEPTACLES SHOWN AT 55" BELOW THE SHELVING IN A HORIZONTAL ORIENTATION.
- 36 PROVIDE PASS & SEYMOUR 2095GRY (GRAY) SPEC GRADE 20A DUPLEX GFCI RECEPTACLE FOR SALAD SPINNER.
- 37 PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
- 38 PROVIDE J-BOX IN CEILING AS SHOWN. PROVIDE 1" CONDUIT FROM J-BOX TO ABOVE THE OFFICE CEILING. SEE ARCHITECTURAL RCP FOR EXACT
- 39 INSTALL LAUNCHPORT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE WALLSTATION AT 62" AFF AND THE WALL PLATE DIRECTLY ABOVE THE WALLSTATION AT 90" AFF. SEE ARCHITECTURAL DRAWINGS FOR HORIZONTAL LOCATION OF WALL PLATE AND WALLSTATION. PROVIDE SINGLE-GANG J-BOX AT 90" AFF FOR THE WALL PLATE INSTALLATION, A 4" X 2-1/8" DEEP OCTAGON J-BOX AT 62" AFF FOR THE WALLSTATION INSTALLATION, AND A 3/4" CONDUIT BETWEEN THE TWO J-BOXES. INSTALL THE CONNECTING CORD THROUGH THE CONDUIT BETWEEN THE WALLSTATION AND THE WALL PLATE J-BOXES. PROVIDE RECEPTACLE AT 90" AFF NEXT TO THE WALL PLATE J-BOX AS SHOWN. THE RECEPTACLE AND WALL PLATE AT 90" AFF SHALL BE CONCEALED FROM PUBLIC VIEW BY THE HOOD.
- 40 ALL KITCHEN RECEPTACLES RATED AT 15A OR 20A AT 120V MUST BE A GFCI RECEPTACLE.



PEDESTAL OUTLET DETAIL

PROVIDE GASKET BETWEEN

PEDESTAL AND 1-GANG BOX -

CONCRETE CURB (SEE

ARCHITECTURAL SHEETS

COVER PLATE

FOR DETAILS)

CIRCUIT BDP- 2 J-BOX FOR CASH DRAWER CONNECTION TORTILLA PRESS RECEPTACLE J-BOX FOR CASH DRAWER CONNECTION. PROVIDE 3/4" CONDUIT TO UPER CASH DRAWER J-BOX. J-BOX FOR ALTERNATE FAX LOCATION J-BOX FOR TELEPHONE JACKS GFCI FOOD WARMER RECEPTACLE CIRCUIT B- 36 GFCI COLD TABLE RECEPTACLE

PROVIDE METALLIC PEDESTAL (HUBBELL

SC3098A) WITH COVER PLATES ON EACH SIDE SUITABLE FOR RECEPTACLES SHOWN ON PLAN

(SS309S FOR SINGLE RECEPTACLE, SS309DS FOR

GFI DUPLEX RECEPTACLE, SS309SF FOR HARD-

WIRED CONNECTIONS, AND SS309BF FOR BLANK)

3/4" THREADED HOLE

PROVIDE 1-GANG CONCRETE

- FLOOR BOX WITH COVER WITH



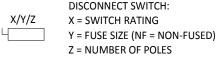
### **ELECTRICAL SYMBOLS**

CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY

CONDUIT CONCEALED BELOW THE SLAB

A-6 HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN

PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING



JUNCTION BOX

### ELECTRIC PANELBOARD

GENERAL PURPOSE 1-POLE SWITCH

MANUAL STARTER WITH PILOT LIGHT

\$ WP WEATHER-PROOF SWITCH

OCCUPANCY SENSOR ACTIVATED WALL SWITCH (HUBBELL LHMTS1W - LIGHTHAWK PIR & US SINGLE CIRCUIT, WHITE)

NEMA 5-20R 1-PLEX RECEPTACLE

NEMA 5-20R DUPLEX RECEPTACLE

NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRO

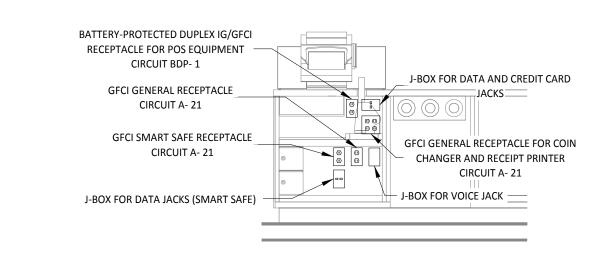
OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE

DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT

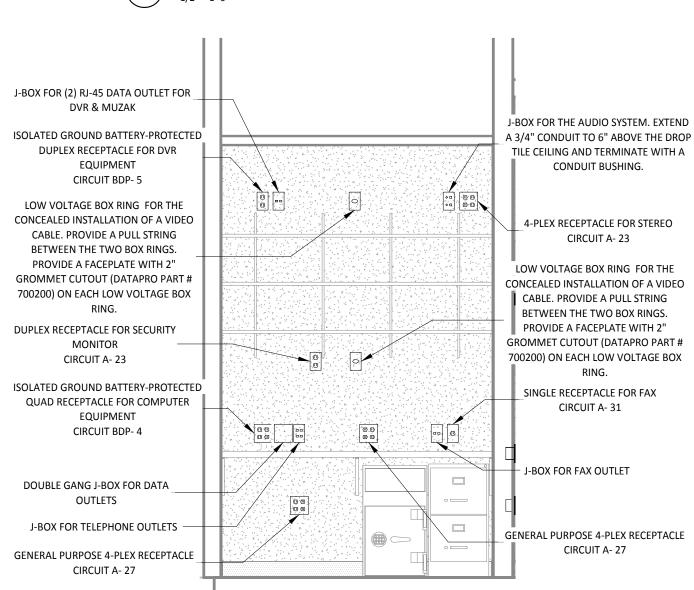
JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

SECURITY SYSTEM KEYPAD: PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING

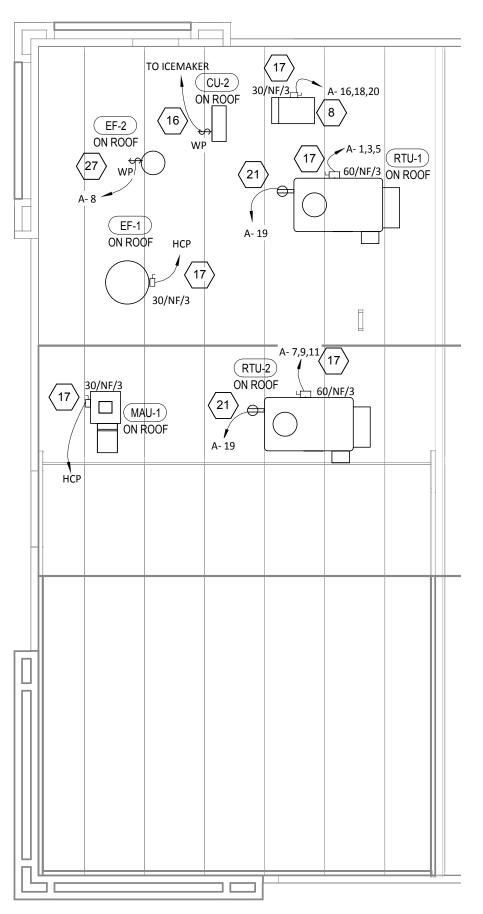


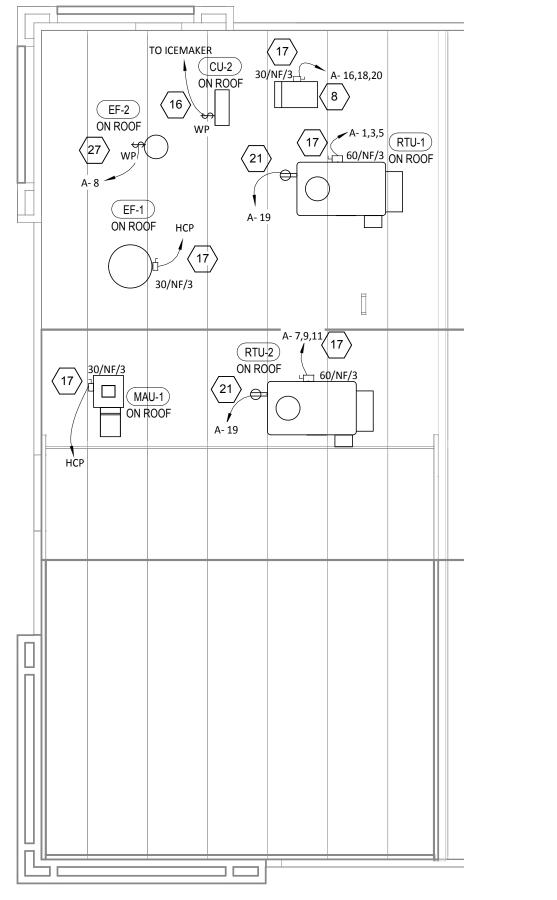
CIRCUIT B- 38



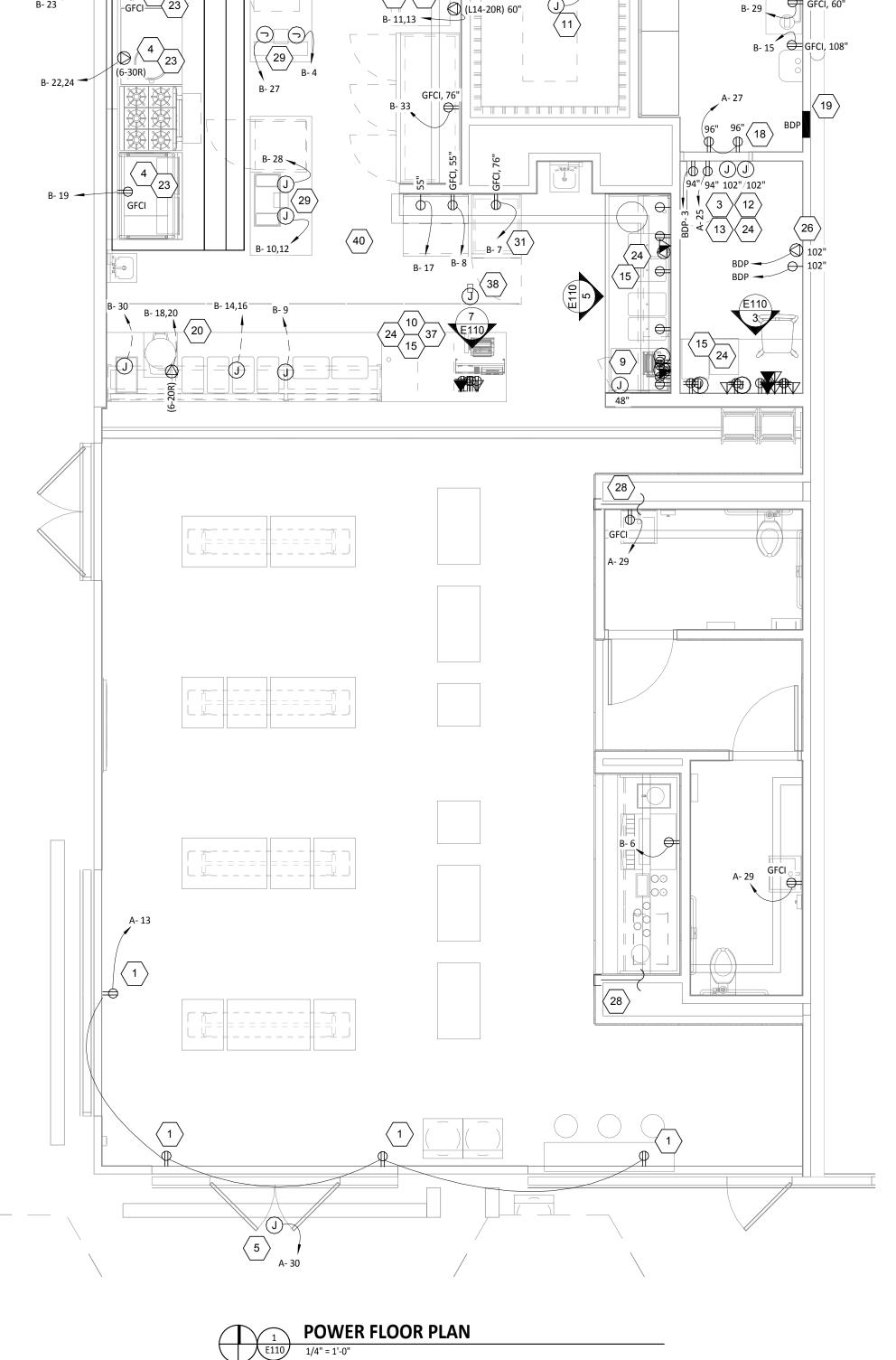












A- 10.12,14

TO REMOTE CONDENSER

(L5-20P INLET) 60"



COPYRIGHT 2014 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC.. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

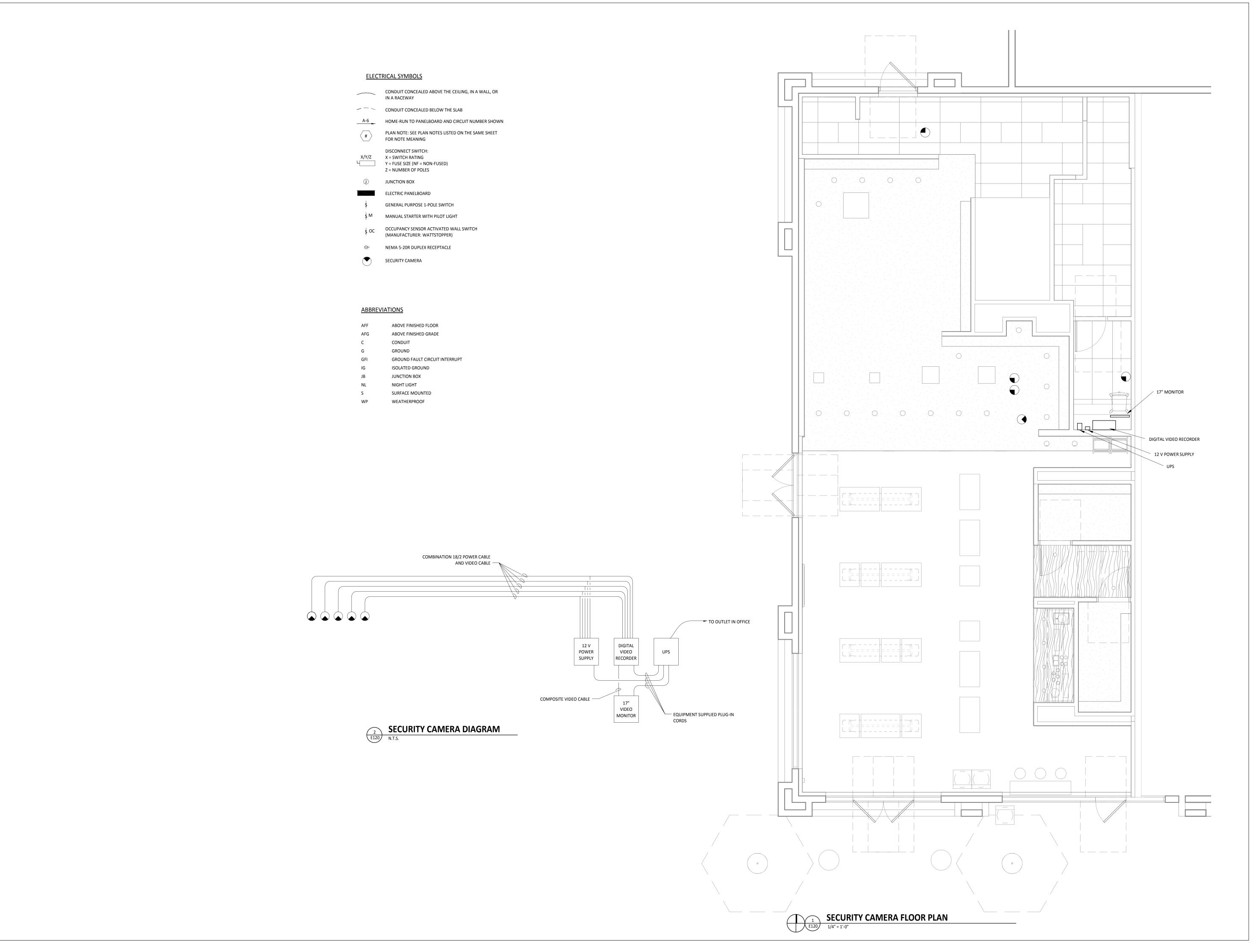
Issue Record: 10.16.2014	Permit & Landlord Reviev
1-30-15	FOR BIDDING
Revisions:	
Drawn:	Checked:
AMD	MPC

E110

Electrical Power Plan

Date of Last Print:

1401051





788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036
ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC.
1401 WYNKOOP STREET, SUITE 500
DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

MIRAMAR, FL 231 SW 160th Ave. Suite 101 Miramar, FL 33027

STORE N

Issue Record:
10.16.2014 Permit & Landlord Review
1-30-15 FOR BIDDING

Revisions:

Checked:

AMD MPC

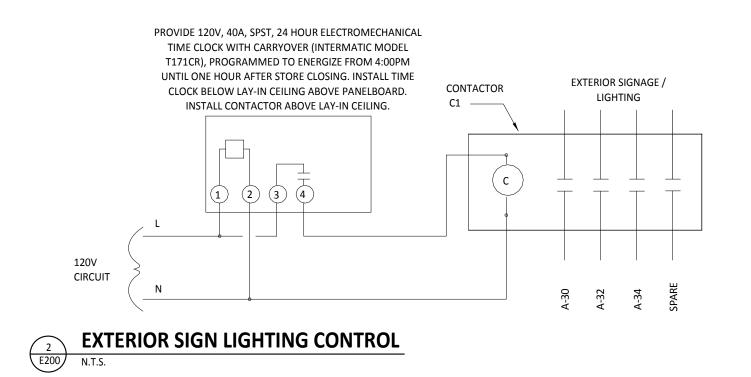
Project No.
1401051

Contents:

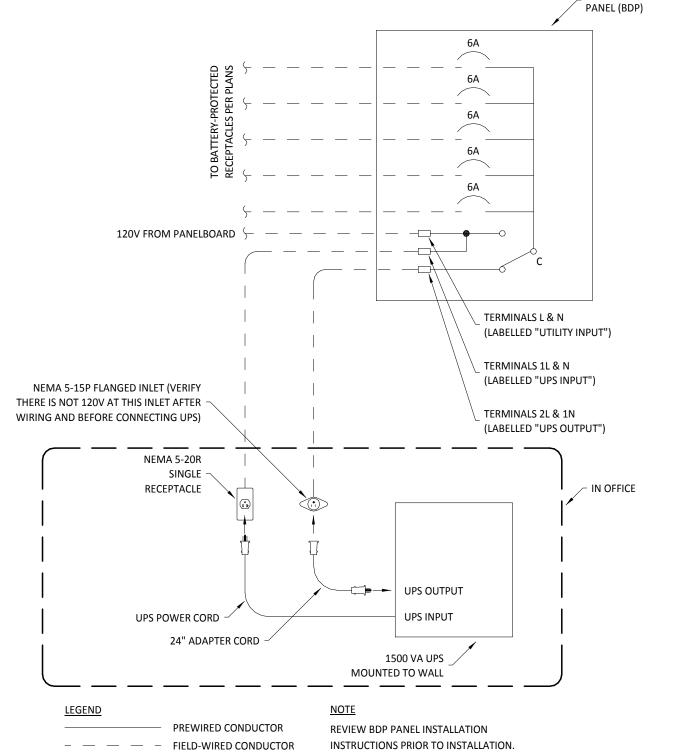
E120

Security Camera Plan

Date of Last Print:







3	BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
E200	N.T.S.

Pan	el Name: BDP	Volts: 120			
		Phases: 1		r	Mains: LUGS
N	lounting: Recessed	Wires: 3		Amp	erage: 30 A
Е	nclosure: Type 1				
СКТ	Circuit De	escription	Trip	Poles	Load
<b>СКТ</b> 1	Circuit De	escription	Trip 6 A	Poles	Load 0.2 kVA
		escription			
1	POS	escription	6 A	1	0.2 kVA
1	POS Fax Line	escription	6 A	1 1	0.2 kVA 0.2 kVA
1 2 3	POS Fax Line Office - Network Gear	escription	6 A 6 A	1 1 1	0.2 kVA 0.2 kVA 0.2 kVA

							AVAILABLE			
POINT	VOLTAGE	PHASES	LENGTH	# SETS	SIZE	CONDUIT TYPE	C VALUE	f VALUE	M VALUE	FAULT CURRENT
Α	208 V	3								31,259 A
В	208 V	3	100 FT	3	400 MCM CU	PVC	24,297	0.357	0.737	23,038 A
С	208 V	3	42 FT	1	500 MCM CU	PVC	26,706	0.302	0.768	17,693 A

																	[(4) C]	400 KCMIL IN 3-1/2"	В
													X A	<b>\</b>	_ / _ <del>_ )</del>				/
										s: 208/12	20V Wye	<u> </u>					anel: A		
									Phases Wires								ains: Ll age: 40		
								N		g: Recess	ed					исв Ra			
								E	nclosure	e: Type 1									
СКТ	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type		A	E	3	C		Load Type	CKT AMPS	Type Notes		Rating	Circuit Description	скт
1	RTU-1 (3-#8, #10 G. in 3/4" C.)	50 A	3	HACR	32.3	С	3.9 kVA	0.0 kVA					-	0.0		3	60 A	TVSS	2
3									3.9 kVA	0.0 kVA									4

EXISTING PAD-MOUNTED

3Ø, 4-WIRE SECONDARY

TRANSFORMER WITH 208/120V,

								`		3	(	ا .							
кт	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type		•		<b>.</b>		,	Load Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CH
L	RTU-1 (3-#8, #10 G. in 3/4" C.)	50 A	3	HACR	32.3	С	3.9 kVA	0.0 kVA					-	0.0		3	60 A	TVSS	2
3									3.9 kVA	0.0 kVA									2
;											3.9 kVA	0.0 kVA							(
,	RTU-2 (3-#8, #10 G. in 3/4" C.)	50 A	3	HACR	42.0	С	5.0 kVA	0.5 kVA					E	4.4		1	15 A	EF-2	8
)									5.0 kVA	1.4 kVA			E	11.7		3	30 A	EF-1/MAU-1 (3-#10, #10 G. IN 3/4" C)	1
1											5.0 kVA	1.4 kVA							1
3	RECEPTACLES - STOREFRONT Receptaculo	20 A	1		6.0	G	0.7 kVA	1.4 kVA											1
5	WARE-WASH FLOOR DRYER Secador del Piso	20 A	1		9.8	F			1.2 kVA	2.0 kVA			F	16.2		3	20 A	CU-1 (WIC)	1
7	Panel BDP	20 A	1		9.0	G					0.5 kVA	2.0 kVA							1
9	RECEPTACLES - ROOFTOP Receptaculo	20 A	1		3.0	G	0.4 kVA	2.0 kVA											2
1	RECEPTACLES - POS GENERAL Receptaculo	20 A	1		6.0	G			0.7 kVA	0.3 kVA			A	2.8		1	20 A	LIGHTING - EM/NL Luces	2
3	SECURITY/AUDIO Sistema de la Seguridad	20 A	1		4.5	G					0.5 kVA	1.4 kVA	A	11.7		1	20 A	LIGHTING - DINING ROOM Luces	2
5	TELEPHONE BACKBOARD Receptaculo	20 A	1		1.5	G	0.2 kVA	1.5 kVA					А	12.5		1	20 A	LIGHTING - FRONT KITCHEN Luces	2
7	RECEPTACLES - OFFICE Recaptaculo	20 A	1		9.0	G			1.1 kVA	0.8 kVA			А	6.4		1	20 A	LIGHTING - BACK KITCHEN Luces	2
9	RECEPTACLES - RESTROOMS Recaptaculo	20 A	1		3.0	G					0.4 kVA	0.9 kVA	В	7.5		1	20 A	SIGN LIGHTING Luces	3
1	RECEPTACLES - FAX & LAUNCHPORT Receptaculo	20 A	1		6.0	G	0.7 kVA	0.9 kVA					В	7.5		1	20 A	SIGN LIGHTING Luces	3
3	Spare	0 A	1						0.0 kVA	0.9 kVA			В	7.5		1	20 A	SIGN LIGHTING Luces	3
5	Spare	0 A	1								0.0 kVA	0.0 kVA				1	0 A	Spare	3
7	Spare	0 A	1				0.0 kVA	0.0 kVA								1	0 A	Spare	3
9	Spare	0 A	1						0.0 kVA	0.0 kVA						1	0 A	Spare	4
1	Spare	0 A	1		1						0.0 kVA	0.0 kVA				1	0 A	Spare	4
						kVA	29.1	kVA	29.2	kVA	26.9	kVA							
						AMPS	24	6 A	24	7 A	22	4 A							
			_			_	_					_			_				
уре	Description	Co	onnecte		De	mand Fact	or		E	stimated I	Demand		Panel	Totals (Ir	cludes	Panel B)			
Α	Interior Lighting		4 kV			125.0				5 kV									
В	Exterior Lighting		3 kV	A		125.0	0%			3 kV	Д		Total	Connecte	d kVA:	85	kVA		

27 kVA

6 kVA

65.00%

100.00%

C Comfort Cooling
D Comfort Heating
E Miscellaneous Motor

F Kitchen Equipment

G Receptacles

СКТ								1	Volts Phases Wires Mounting	s: 4		e				Ma	inel: B ains: Ll age: 40 ting:	JGS	
СКТ		T	П				1		Enclosure					Γ					
	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	,	<b>A</b>		B		c	Load Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	c
1	HD-1 (CONTROL & LIGHTS)	20 A	1		1.5	E	0.2 kVA	0.2 kVA					F	1.7		1	20 A	WALK-IN COOLER	
	SODA CARBONATOR Maquina de la Soda	20 A	1		9.4	F			1.1 kVA	1.4 kVA			F	11.3	GFCI	1	20 A	FOOD PREP TABLE (ISLAND) Receptaculo	
5 1	FOOD PREP TABLE Receptaculo	20 A	1	GFCI	11.3	F					1.4 kVA	1.1 kVA	F	9.4	GFCI	1	20 A	SODA SYSTEM DISPENSER Systema de Sodas	
/	REACH-IN REFRIGERATOR Refrigerador	20 A	1	GFCI	13.8	F	1.7 kVA	0.8 kVA					F	6.3		1	20 A	BLENDER Mezclador	
	COLD TOP (SERVE LINE) Refrigerador	20 A	1		12.0	F			1.4 kVA	1.0 kVA			F	10.0		2	20 A	CARVING STATION	:
	ICE MAKER Maquina del Hielo	20 A	2		10.7	F					1.1 kVA	1.0 kVA							1
13 -							1.1 kVA	2.1 kVA					F	20.0		2	30 A	HOT FOOD SERVER (SERVE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.)	1
	GAS WATER HEATER Calientador de Aqua del Gas	20 A	1		5.0	F			0.6 kVA	2.1 kVA									:
	TORTILLA PRESS (BACK BAR) Parilla del Emparedado	20 A	1	GFCI	13.8	F					1.7 kVA	1.4 kVA	F	13.0		2	20 A	TORTILLA PRESS (SERVE LINE) Parilla del Emparedado (2-#10, #10 G. in 3/4" C.)	1
19	GAS GRIDDLE	20 A	1	SHNT TRIP	1.5	F	0.2 kVA	1.4 kVA											2
21 5	SHUNT								0.0 kVA	0.5 kVA			F	4.8	SHNT TRIP	2	30 A	ELECTRIC RICE COOKER (2-#10, #10 G. in 3/4" C.)	
23	GAS FRYER	20 A	1	SHNT TRIP	0.6	F					0.1 kVA	0.5 kVA							2
25 5	SHUNT						0.0 kVA	0.0 kVA										SHUNT	:
	FOOD WARMER (RICE TABLE) Warmer de Alimento	20 A	1		1.5	F			0.2 kVA	1.2 kVA			F	9.8		1	20 A	REFRIGERATOR (COOK LINE) Refrigerador	
1 70 1	WATER SOFTENER Suavizador de Agua	20 A	1		1.5	F					0.2 kVA	0.8 kVA	F	7.0		1	20 A	FUTURE EQUIPMENT	3
	TORTILLA PRESS (FAX LINE) Parrilla del Emparedado	20 A	1	GFCI	13.8	F	1.7 kVA	1.0 kVA					F	10.0		2	20 A	HOT FOOD SERVER (FAX LINE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.)	3
	UPRIGHT REFRIGERATOR Refrigerador	20 A	1		12.0	F			1.4 kVA	1.0 kVA									3
35 \$	SALAD SPINNER	20 A	1		2.1	F					0.3 kVA	1.4 kVA	F	11.7		1	20 A	FOODWARMER (FAX LINE) Warmer de Alimento	3
37 5	Spare	0 A	1				0.0 kVA	1.2 kVA					F	10.0	GFCI	1	20 A	COLD TOP (FAX LINE) Refrigerador	
39 5	Spare	0 A	1						0.0 kVA	0.0 kVA						1	0 A	Spare	

INSTALL 1500 VA

- WALL-MOUNTED UPS

BDP

PROVIDE CONNECTION FROM TERMINAL STRIP IN

BDP TO THE INPUT AND THE OUTPUT OF THE UPS

INSTALLATION INSTRUCTIONS. FINAL CONNECTION

PROVIDE (4) 500 MCM CU, #1/0 G. IN EXISTING 4"

TO EXISTING/FUTURE TO EXISTING/FUTURE

**TENANTS** 

EXISTING WIREWAY "WWA" -

EXISTING (3) SETS OF

C. (APPROXIMATELY 42') GC TO FIELD VERIFY.

TO UPS SHALL BE THROUGH A SINGLE 5-20R RECEPTACLE AND A 5-15P FLANGED INLET.

TENANTS

IN OFFICE PER THE MANUFACTURER'S

**FURNISHED BY OWNER** 

400 AMP

120/208 VOLT

3 PHASE

**EXISTING CIRCUIT** 

BREAKER, CT, AND METER

INSTALL SURFACE MOUNTED TVSS UNIT (CURRENT

BY OWNER. FEED THROUGH 60A 3PH CIRCUIT

- BREAKER. LOCATE AS CLOSE AS POSSIBLE TO TOP OF PANELBOARD NEAR CEILING. CONDUCTORS SHALL NOT

HAVE SHARP BENDS. INSTALL TVSS UNIT PER

KEEP CONDUCTOR LENGTH AS

22,000 AIC.

SHORT AS POSSIBLE.

400 AMP

MAIN DISTRIBUTION DIAGRAM

120/208 VOLT 3 PHASE

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

TECHNOLOGY MODEL CG60-120/208-3GY) FURNISHED

PROVIDE PANELS A AND B AND

INSTALL PANEL BDP WITH CIRCUIT BREAKERS AS SHOWN. CIRCUIT

BREAKERS SHALL BE FULLY RATED AT



788 Morrison Road
Columbus, Ohio 43230
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: Andy Demancsik
(614) 328-2036
ademancsik@nationalengineering.com

COPYRIGHT 2014
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH
REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC..
PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND
CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH
CHIPOTLE MEXICAN GRILL, INC..



CHIPOTLE MEXICAN GRILL, INC. 1401 WYNKOOP STREET, SUITE 500 DENVER, COLORADO 80202 TELEPHONE: (303) 595-4000 FAX: (303) 595-4014 INTERNET: WWW.CHIPOTLE.COM

> MIRAMAR, FL 231 SW 160th Ave. Suite 101

ssue Record:	
10.16.2014	Permit & Landlord Review
1-30-15	FOR BIDDING
Revisions:	
Drawn:	Checked:
MD	MDC
AMD	MPC
Project No.	
1401051	

E200

Electrical Schedules &

Date of Last Print:

Details