PANDA EXPRESS

B1-17-D5167
NAS PAX RIVER NAVY BASE
PATUXENT RIVER, MD 20670

GENERAL NOTES 6 (G-001)

1. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FULLY EXAMINE THE SITE CONDITION, AND AVAILABLE UTILITIES AND TO NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THE SAID EXISTING CONDITIONS AND THESE DRAWINGS. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE MADE OR SHALL BE VALID UNLESS WRITTEN NOTIFICATION IS RECEIVED BY THE OWNER'S REPRESENTATIVE AND THE ADDITIONAL COMPENSATION IS APPROVED IN ADVANCE OF PROCEEDING WITH THE WORK.
2. IN ADDITION TO THE GENERAL NOTES LISTED HEREIN, A.I.A. DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION SHALL APPLY.
3. ALL WORK SHALL BE PERFORMED AS TO COMPLY WITH ALL GOVERNING STATUTES, ORDINANCES, REGULATIONS, CODES AND INSURANCE RATING BOARDS. NO WORK SHALL COMMENCE UNTIL ALL GOVERNMENTAL AND JURISDICTIONAL PERMITS AND APPROVALS ARE OBTAINED.
4. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF.
5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR INSTALL OR PERMIT TO BE INSTALLED, ANY MATERIALS CONTAINING ASBESTOS.
6. THE TERM "OWNER" OR "TENANT" SHALL REFER TO PANDA EXPRESS AND ITS AGENTS OR REPRESENTATIVES. THE TERM "GENERAL CONTRACTOR" AND "G.C." SHALL REFER TO THE PERSON AND/OR PERSONS WHO HAVE CONTRACTED OR SUBCONTRACTED FOR THE WORK.
7. THE ABBREVIATION OF "N.I.C." INDICATES WORK AND OR MATERIAL THAT IS NOT IN THE CONTRACT OF THE GENERAL CONTRACTOR, HOWEVER THIS DOES NOT RELIEVE THE G.C. OF THE RESPONSIBILITY OF COORDINATION.
8. NOT USED.
9. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDIVIDUALLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
10. ALL WALL & CEILING CONSTRUCTION SHALL BE SUPPORTED BY STRUCTURE & NOT BY ROOF DECK IF APPLICABLE.

NOT USED 7 (G-001)

TEAM DIRECTORY 1 (G-001)

NAS PAX RIVER (NEXCOM):
RUDY ACOSTA
REGIONAL FOOD SERVICE OPERATIONS SPECIALIST
EMAIL: Rudy.Acosta@nexwb.org
PHONE: (202) 433-2787
CELL: (703) 225-9482

DEMETIOS MALFAKIS
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FIRE INSPECTOR:
JP CUALDER
CIV NAS PAX RIVER, N30
EMAIL: john.caulder@navy.mil
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NICHOLAS SOUNDERS
CIV NAS PAX RIVER, N30
EMAIL: nicholas.sounders@navy.mil
PHONE: (301) 342-3524

ELPX, LLC:
EDDIE WANG
602 SHASTA DRIVE
ENCINITAS, CA 92024
EMAIL: eddie.wang@pandarg.com
PHONE: (949) 331-4816

PANDA EXPRESS:
PANDA RESTAURANT GROUP
1683 WALNUT GROVE AVENUE
ROSEMEAD, CA 91770

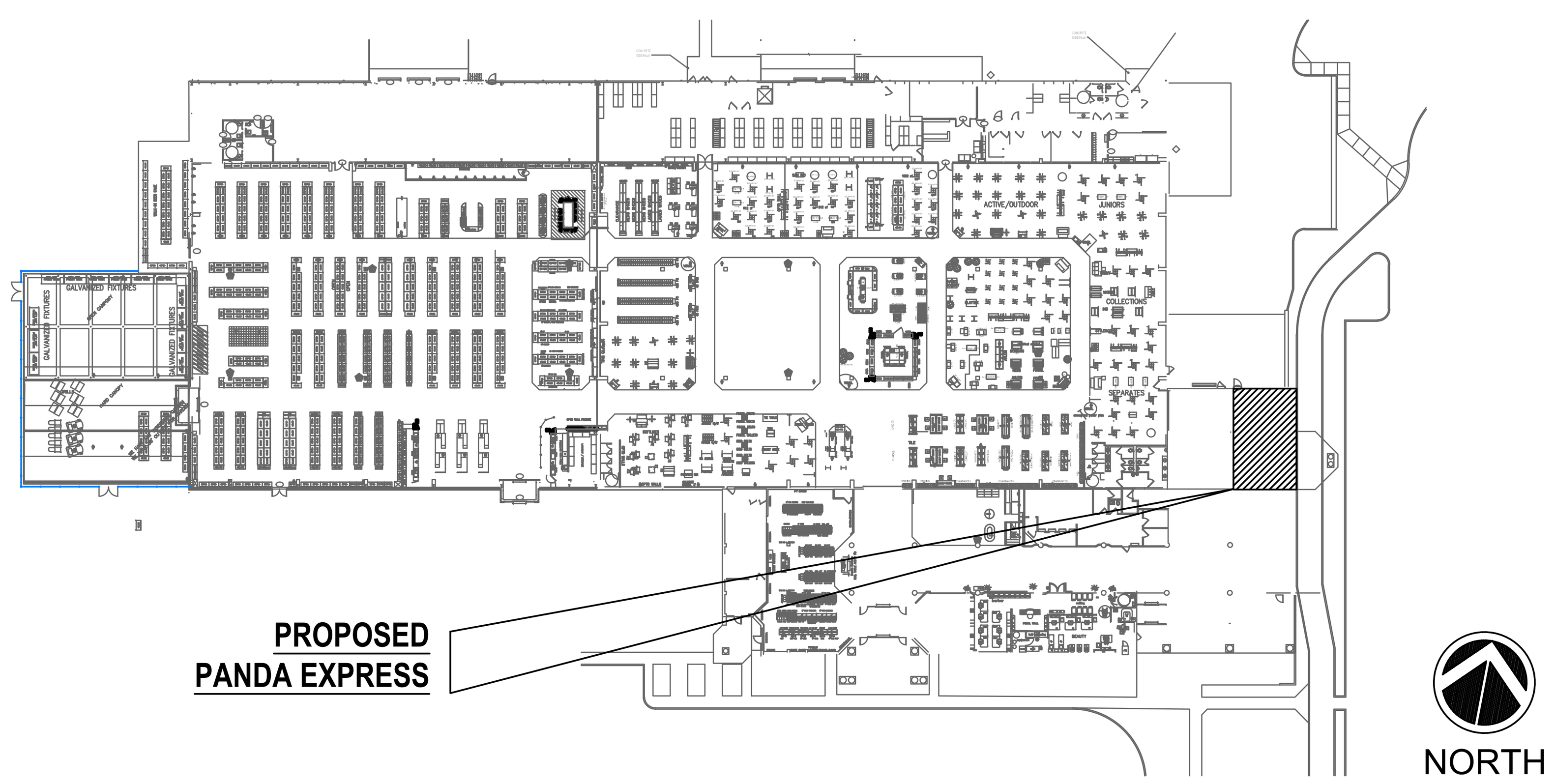
CONTACT:
ALEX PHELPS - CONSTRUCTION MANAGER
EMAIL: alex.phelps@pandarg.com
PHONE: (303) 335-5701

CONTACT:
JANICE MORRIS - DESIGN MANAGER
EMAIL: janice.morris@pandarg.com
PHONE: (626) 372-8292

PROJECT COORDINATOR
GARY WANG & ASSOCIATES
1255 CORPORATE CENTER DRIVE, SUITE 8
MONTEREY PARK, CA 91754
PHONE: (626) 288-6898

PROJECT CONTACT:
DALMAR DURAN
EMAIL: dalmar@garywang.com
PHONE: (323) 243-3608

KEY PLAN 3 (G-001)



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ABBREVIATIONS 9 (G-001)

AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
BV	BALL VALVE (FULL PORT)
B.O.	BOTTOM OF
C.	CONDUIT
CO	CONDUIT ONLY
CW	COLD WATER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EWH	ELECTRICAL WATER HEATER
EXT.	EXTERIOR
FOF	FACE OF FINISH
FOS	FACE OF STUD
F.S.	FLOOR SINK
G.C. OR GC	GENERAL CONTRACTOR
H.W.	HOT WATER
ID	INDIRECT DRAIN
INT.	INTERIOR
K.E.C.	KITCHEN EQUIP. CONTRACTOR
L.L.	LANDLORD
MC	MECHANICAL CONTRACTOR
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
O.C.	ON CENTER
PC	PLUMBING CONTRACTOR
RAR	RETURN AIR REGISTER
R.I.H.	ROUGH-IN HEIGHT
S.S.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURE, STRUCTURAL
T.O.	TOP OF
WCO	WASTE CLEAN OUT

SYMBOLS 8 (G-001)

D1	DOOR TYPE
W1	WINDOW TYPE
TA	FLOOR FINISH
W4	WALL TYPE
1	STRUCTURAL GRID
C1	CEILING FINISH
P-C	WALL FINISH
34	KITCHEN EQUIPMENT
101	ROOM NUMBER
	MARK OF ELEVATION
A/A1.0	DETAIL
1/A-2.0	INT. ELEVS
A / A-2.0	SECTION
	NEW DOOR
T	TEMPERED GLAZING
A / A-2.0	EXT. ELEVS

VICINITY MAP 5 (G-001)

CODE ANALYSIS 4 (G-001)

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

CODE
2015 INTERNATIONAL BUILDING CODE
INTERNATIONAL ENERGY CONSERVATION CODE
INTERNATIONAL FUEL GAS CODE
INTERNATIONAL PLUMBING CODE
INTERNATIONAL MECHANICAL CODE

OCCUPANT LOAD CALCULATION		
KITCHEN	900 SQ. FT. / (200 / SQ. FT.) =	5
SERVICE AREA	184 SQ. FT. / (200 / SQ. FT.) =	1

PANDA EXPRESS	
RESTAURANT AREA	1084 S.F.
EMPLOYEES	3 EMPLOYEES / SHIFT (2 SHIFTS PER DAY)

BUILDING CODE ANALYSIS	
OCCUPANCY CLASSIFICATION	A-2 (RESTAURANT)
TYPE OF CONSTRUCTION	TYPE II-B
FIRE SPRINKLER	YES

CONSTRUCTION SET - 2017/0730

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

1	ARCHITECTURAL DETAILS	07/30/2017

ISSUE DATE:

1	35% SUBMITTAL	12/21/2016
2	100% SUBMITTAL	05/01/2017
3	BID SET	07/03/2017
4	CONSTRUCTION SET	07/30/2017

CHECKED BY: CF
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

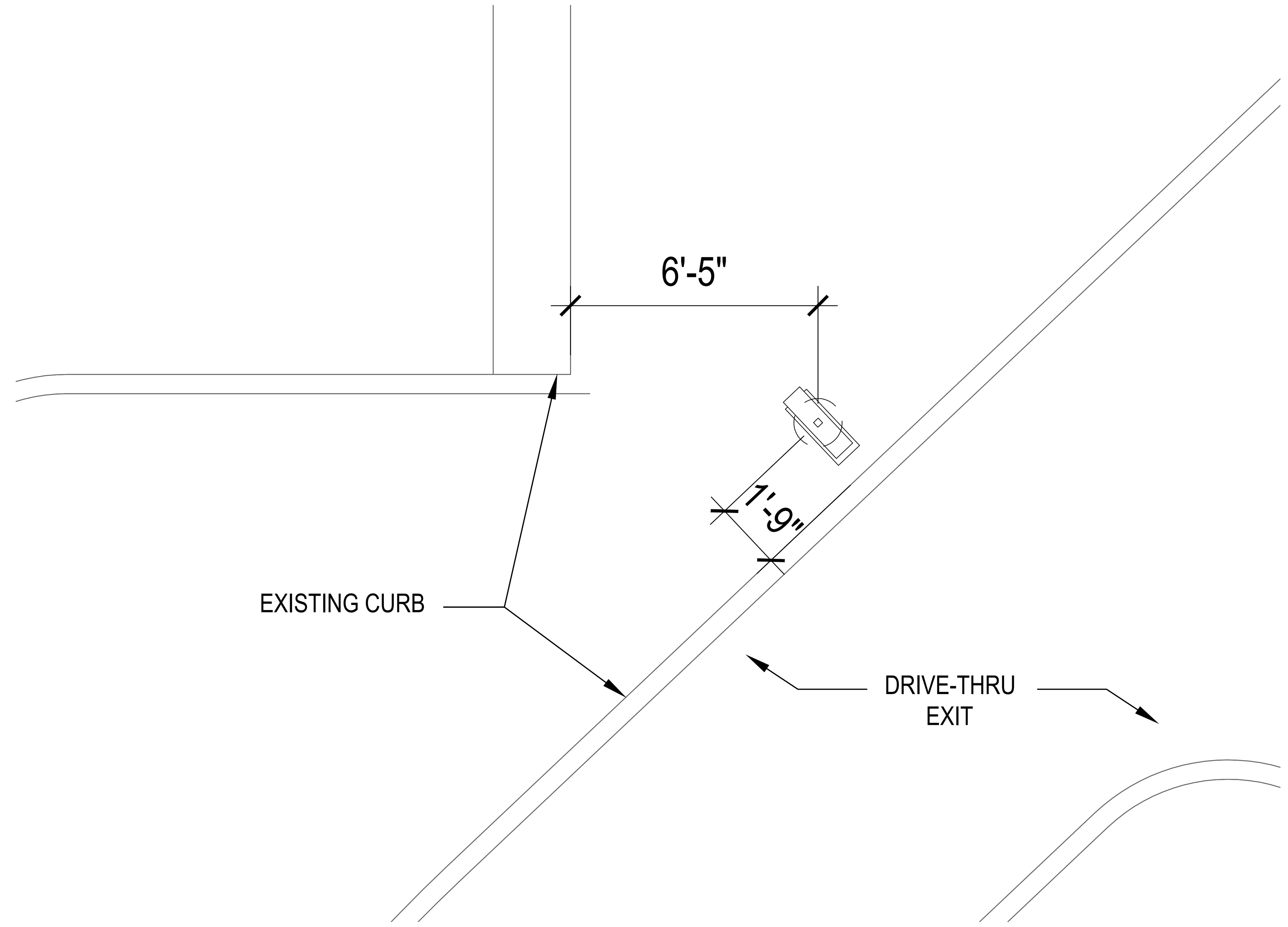
CM
CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
FAX: (817) 635-5699

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NO: 10225
EXPIRATION DATE: 1-19-2019

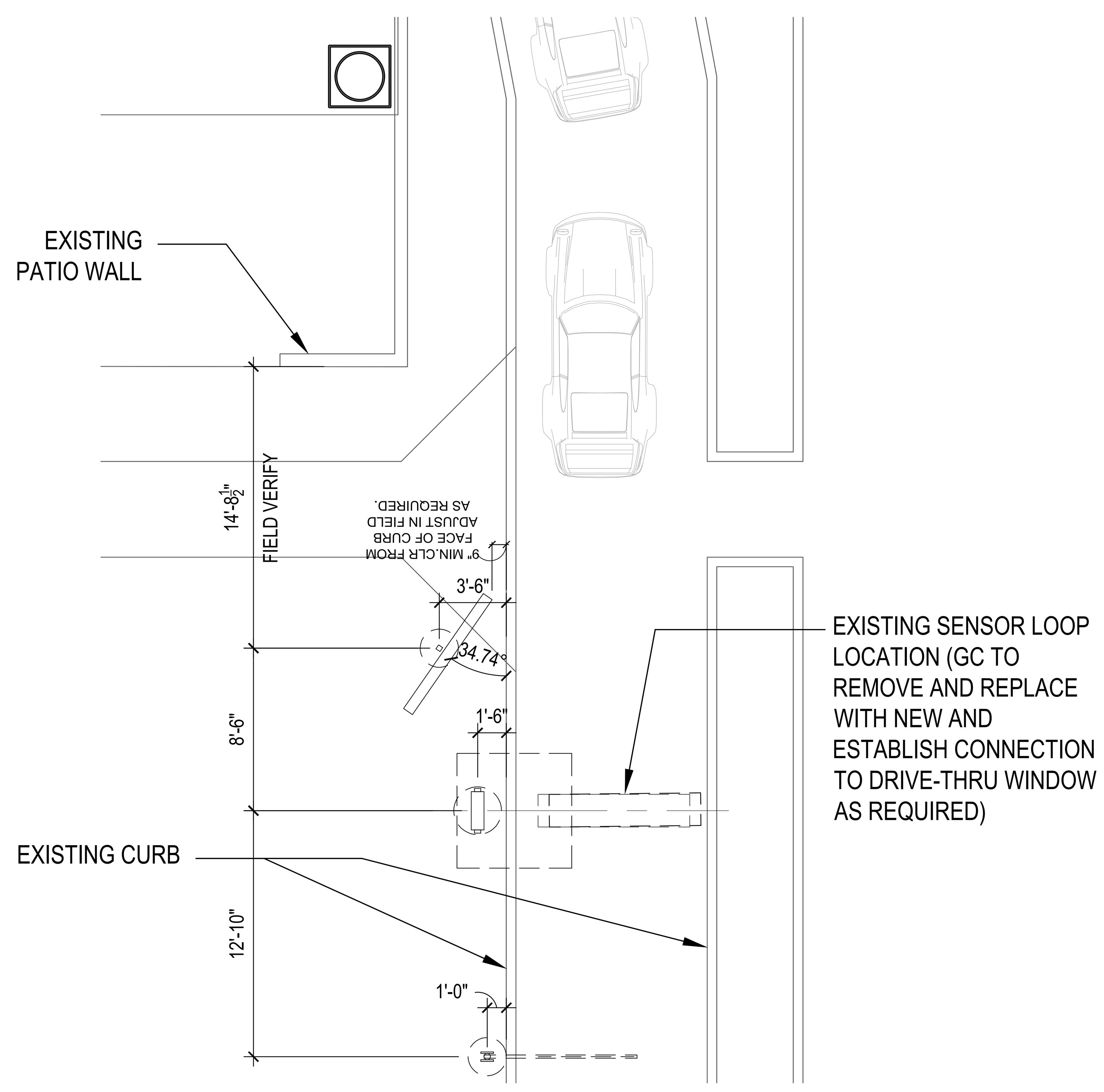
PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

G-001

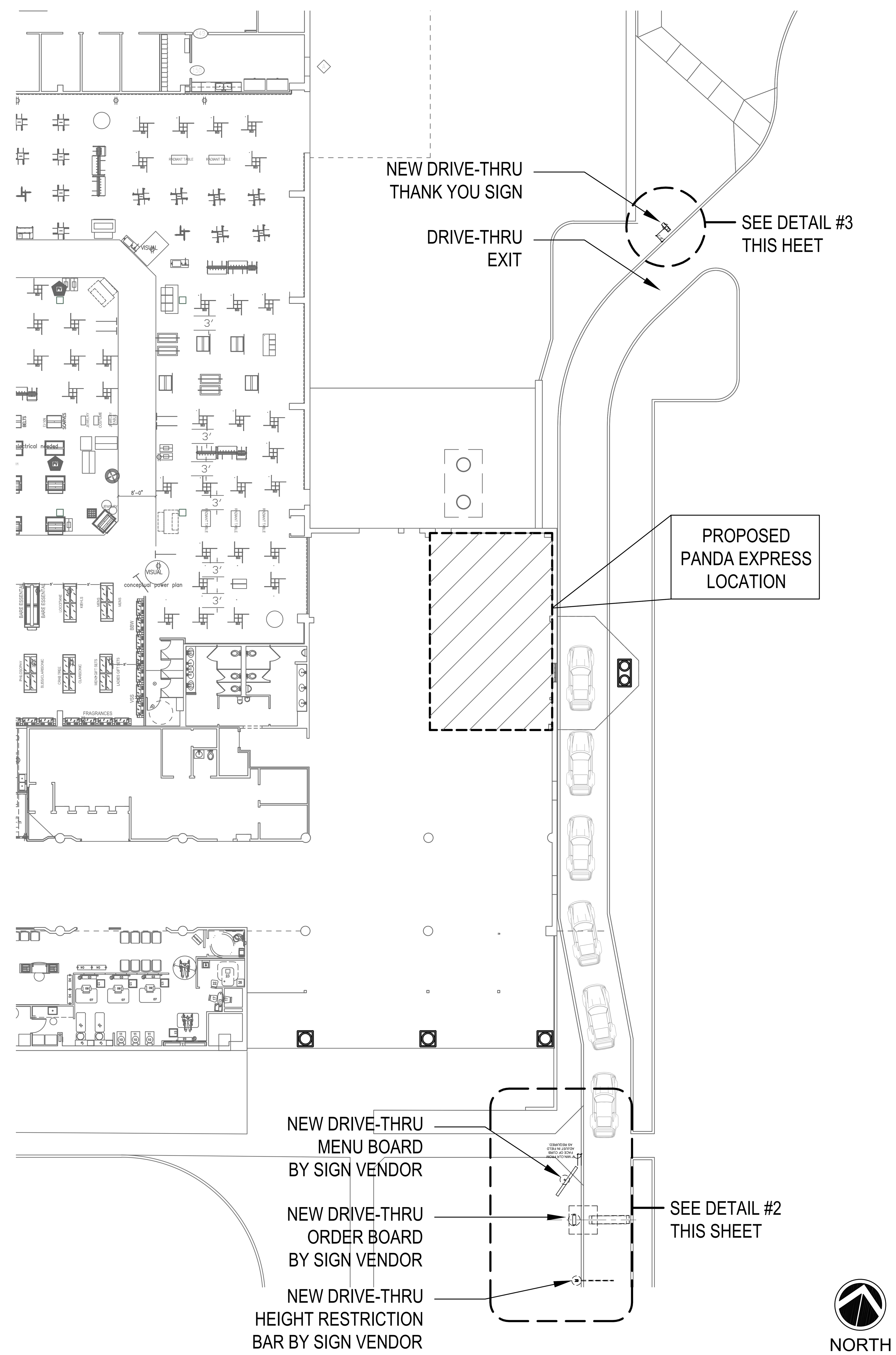
TITLE SHEET



DT THANK YOU/ NO ENTRY SIGN LOCATION 3
3/8" = 1'-0" A-100



DT MENU BOARD/ ORDER BOARD AND HEIGHT RESTRICTION BAR LOCATION 2
3/16" = 1'-0" A-100



SITE PLAN 1
1/16" = 1'-0" A-100

CONSTRUCTION SET - 2017/0730

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

1	ARCHITECTURAL DETAILS	07/30/2017

ISSUE DATE:

1	35% SUBMITTAL	12/21/2016
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3	BID SET	07/03/2017
4	CONSTRUCTION SET	07/30/2017

CHECKED BY: CF
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

CM
CORTLAND
MORGAN
ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
FAX: (817) 635-5699

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NO: 10225
EXPIRATION DATE: 1-19-2019

PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-100

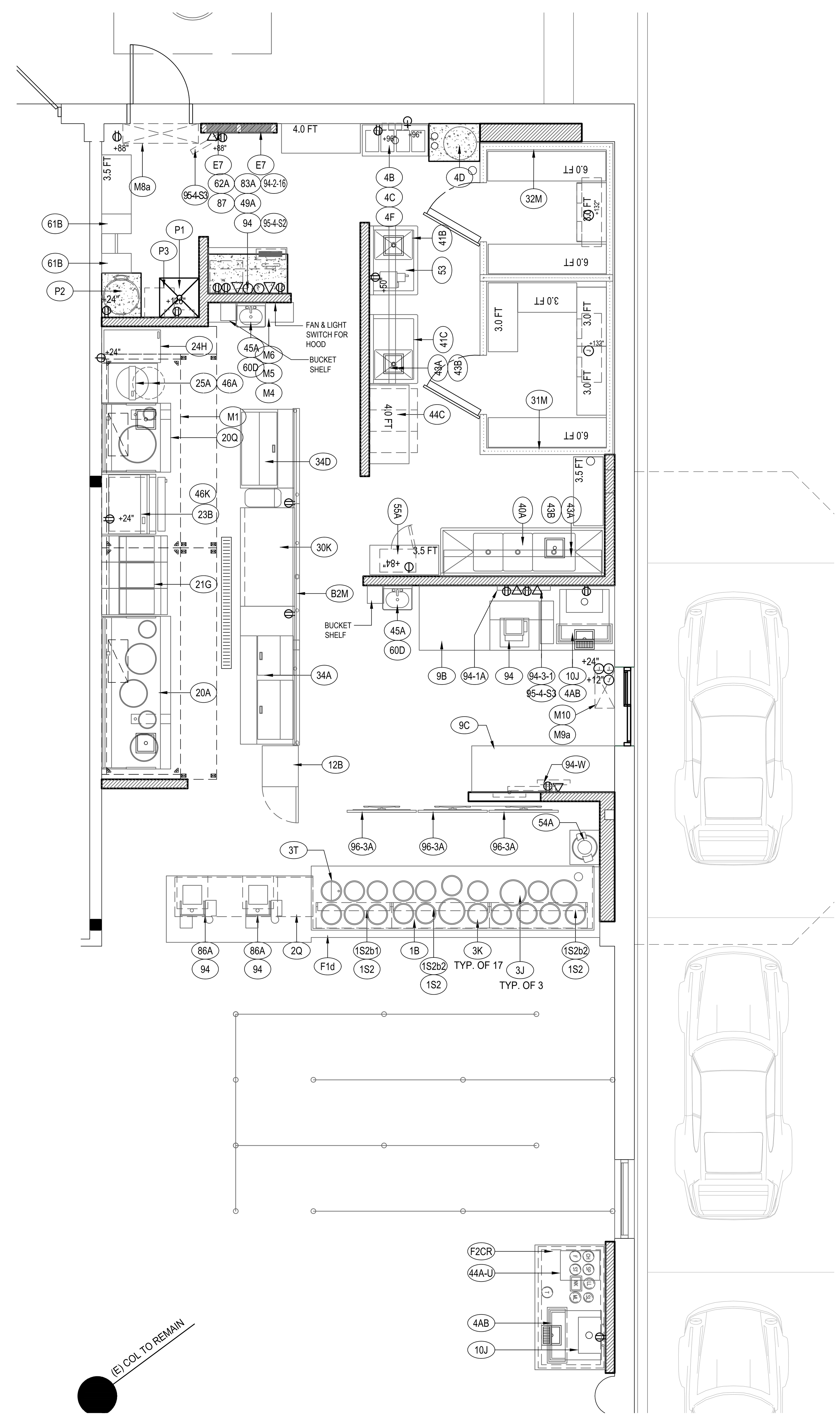
SITE PLAN

EQUIPMENT SCHEDULE

11-21-16

PLUMBING	ELECTRICAL	DESCRIPTION	
FS INDIRECT CONNECTION TO FLOOR SINK	D DIRECT CONNECTION	O OWNER(PANDA EXPRESS, INC.)	S SERVING AREA
D DIRECT CONNECTION	C CONVENIENT OUTLET	GC GENERAL CONTRACTOR	K KITCHEN
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)	FSO FLOOR STUB OUT	EC ELECTRICAL CONTRACTOR	(E) EXISTING
	DC DROPPED CORD	KEC KITCHEN EQUIPMENT COMPANY	

SUPPLY BY	GAS			WASTE		COLD WATER		HOT WATER		CONNECTION		LOAD	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS	MANUFACTURE	MODEL #	EQUIPMENT	NO.
	K BTU	R.I.H.	SIZE	TYPE	SIZE	R.I.H.	SIZE	R.I.H.	SIZE	R.I.H.	TYPE	WATT					W x D x H (ø x H)				
SERVING AREA EQUIPMENT																					
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER, SERVICE	1B
O										REF. ELEC.	D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE. COUNTER	2Q
O											C	650W	1		120	INDUCTION DRY WELL	15 3/4" DIA X 11"D	COOKTEK	IDW650L	INDUCTION WELL - 17QT	3J
O											C	650W	1		120	INDUCTION DRY WELL	12 1/2" DIA X 11"D	COOKTEK	IDW650S	INDUCTION WELL - 11QT	3K
O											C	6.7A	1		120		11 7/8" DIA. X 16"	VOLLRATH	74701DW	SOUP WARMER	3T
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O										REF. ELEC.	D	840W	1		120	3 HEATING ELEMENTS	43.06" X 5.25" X 3.03"	KEC		43" RADIANT TOP HEATER	1S2b1
O											D	1100W	1		120	4 HEATING ELEMENTS	55.56" X 5.25" X 3.03"	KEC		56" RADIANT TOP HEATER (2)	1S2b2
O											D	840W	1		120	3 HEATING ELEMENTS	43.06" X 5.25" X 3.03"	KEC		43" RADIANT TOP HEATER (2)	1S2-S1d
O				FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O										96"	C	7.2A	1		120	ON S/S SHELF	15"x11"X16"	CORNELIUS		BOOSTER	4B
O																	40"x18"	CORNELIUS		SODA RACK	4C
O																ON 6" CURB	ø26"	CHART	CARBO-MAX 750	CO2 TANK	4D
O						96"	1/2"									WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	4F
O										24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER- DT	9B
O																	SEE PLAN	KEC	CUSTOM	S/S COUNTER AT DT	9C
O				FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	---	22" X 14" X 26.5"	MANITOWOC	IB-0894YC	800 LBS. ICE MACHINE	10J
O										16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	CVD-0875	REMOTE CONDENSER	10J-S1
O				SC						24"	C	2.0A	1		115	NEMA 5-15P		TRUE	GDM-10-HC-LD	REMOTE CONDENSER	12B
KITCHEN EQUIPMENT																					
O	450	10"	1-1/2"	FS	2"	10"	1/2"									SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"									SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	122 EA.	14"	1 1/2"							24"	C	-	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	MJ45-FPP345G	FRYER	21G
GRILL O NEMA PLUG/CONNECTOR O										36"	DC	25A	3		208V		36"X27 7/8"X15 1/2"	STAR	536TGF	STAR ELECTRICAL GRILL	23B
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 30"	3/4"														19"øx17"	RINNAI	RER-55AS	RICE COOKER (2)	25A
O				FS	3/4"					130"	D	500W	1	1.5	120/208		SEE PLAN	GRE	CUSTOM	WALK-IN COOLER UNIT	31M
O											D	10.0A	1	1.5	208		SEE PLAN	GRE	CUSTOM	WALK-IN COOLER COND.	31-S
O											D/ID	500W	1		120		SEE PLAN	GRE	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O				FS	3/4"					130"	D	500W	1	1.5	120/208		SEE PLAN	GRE	CUSTOM	WALK-IN FREEZER	32M
O											D	10.0A	1	1.5	208		SEE PLAN	GRE	CUSTOM	WALK-IN FREEZER COND.	32-S1
O										24"	C	6.6A	1	1/3	120	NEMA 5-15P	60 3/8"X30"X29 3/4"	TRUE	TUC-60F	60" WORKTOP FREEZER	30K
O										24"	C	12A	1	1/2	120	SELF CONTAINED	84"x33"x35"	RANDELL	9050K-7MP2-NSB	84" REF. PREP. TABLE	34A
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O				FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O										18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	KEC	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O										18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	KEC	CUSTOM (NSF)	16"D S.S. WALL MTD. SHELF	43B
O										4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O										4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O										50"	C	2.8A	1	1/3	120		12 1/2"x21"	PIPER	GSM-4	FOOD PROCESSOR	53
O																	24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																	36 1/2"x 33" x 28"	KEC	CUSTOM	S.S. GRILL STAND	46K
SMALL EQUIPMENT																					
O										24"	C	105W	1		120	ON S.S. COUNTER	17" ø	WELBON	WRS-1088BS	RICE WARMER	54A
O										84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"X13 5/8"X22 9/16"	SHARP	R-CD1800M	MICROWAVE	55A
BY G.C.																AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O					2"	24"	1/2"	24"	1/2"							W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O																	SEE DETAIL	SAN-JAMAR	SANJT7500TBK	PAPER TOWEL DISPENSER	60D
O																WALL MOUNT	12"x15"x78"	GRE	5-TIER	LOCKER (2)	61B
O																	20.5"X16"X28"	USA SAFE		SAFE	62A
POS EQUIPMENT																					
O																SEE ELEV. ON E-200	48" X 28" X 42"	GRE	CUSTOM	MANAGER STATION	49A
O										REF ELEV	C	100W	1		120	SEE DETAIL			CUSTOM	COMPUTER	83A
O										REF ELEV	C	50W	1		120	SEE PLAN				POS PRINTERS	86A
O										REF ELEV	C	50W	1		120					FAX	87
O										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
MEP EQUIPMENT																					
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O										88"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8A
BY G.C.										24"	D	20 A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30 A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.										24"	D	20 A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-4860E	DT WINDOW	M10
BY G.C.					3"	36"	3/4"	36"	3/4"		D					FLOOR TYPE	24" X 24" X 13"	G.S.W. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.										87"	C	50W	1		120	SEE PLUMBING DWG	66-3/4" x 22"	A.O. SMITH	BTX-100; SERIES 130	GAS WATER HEATER	P2
BY G.C.						108"	3/4"	108"	3/4"	110"	C	6.0KW	1		208	SEE PLUMBING DWG	18" DIA. X 18-1/4"	A.O. SMITH	DEL-10	ELEC. WATER HEATER	P3
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O										REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
O										REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O										REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O										88"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
BY G.C.																SEE ELEC. DWG				ELECTRICAL PANEL	E7
SIGNAGE																					
O																	SEE SIGN DWG DETAIL		CUSTOM	MENU BOARD	D2b
O										REF ELEV	C	120W	1		120	DEDICATED CIRCUIT	44.2" X 24.3" X 1.2"	LG	47WS50BS-B	LCD DISPLAY MONITOR	96-3A
SIGNAGE																					
O																	SEE PLAN		CUSTOM	COUNTERTOP	F1B



NORTH

KITCHEN PLAN 1

1/4"=1'-0" A-101

CONSTRUCTION SET - 2017/0730

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

1	ARCHITECTURAL DETAILS	07/30/2017

ISSUE DATE:

1	35% SUBMITTAL	12/21/2016
2	100% SUBMITTAL	05/01/2017
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4	CONSTRUCTION SET	07/30/2017

CHECKED BY: CF
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
FAX: (817) 635-5699

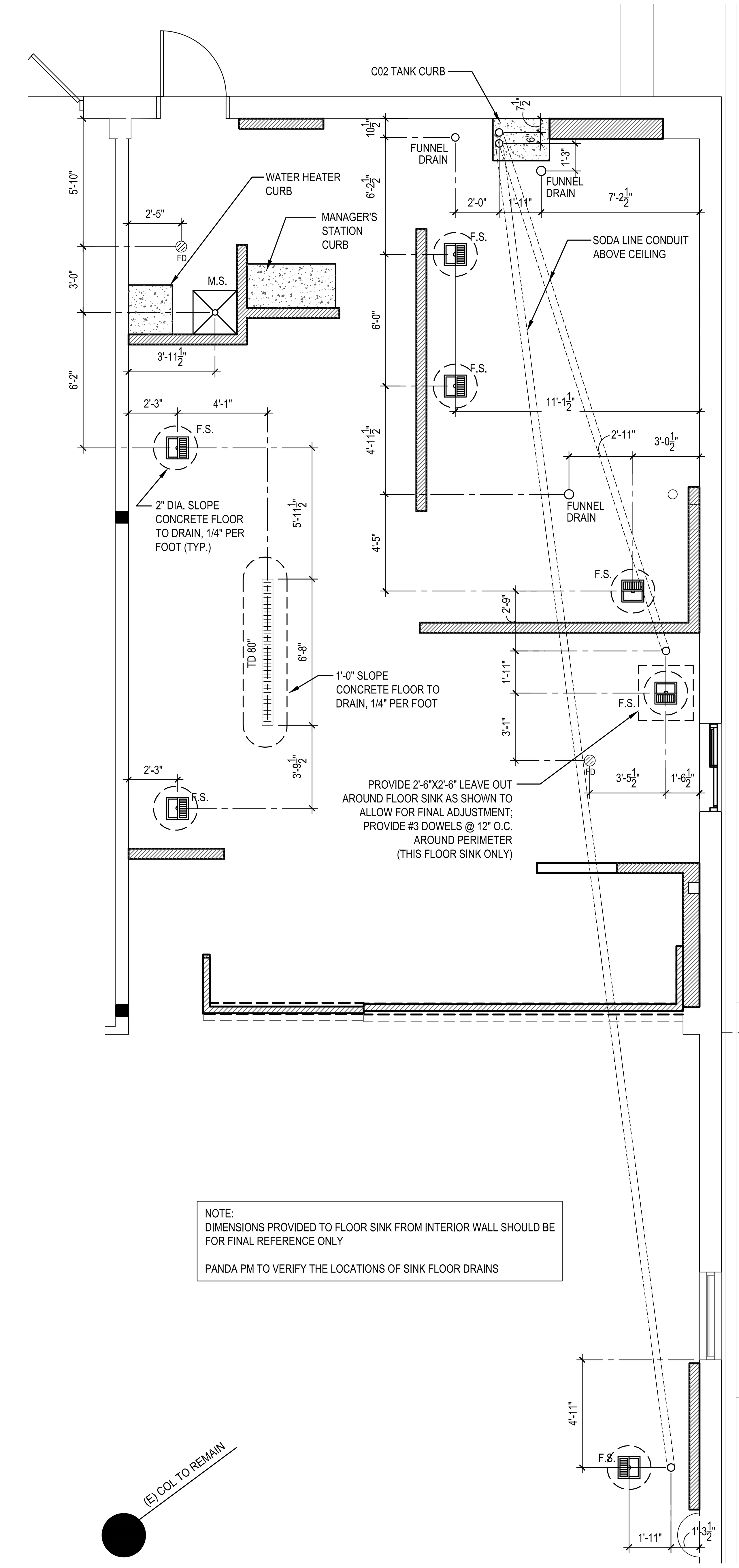
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NO: 10225
EXPIRATION DATE: 1-19-2019

PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-101

KITCHEN PLAN



NOTE:
DIMENSIONS PROVIDED TO FLOOR SINK FROM INTERIOR WALL SHOULD BE FOR FINAL REFERENCE ONLY

PANDA PM TO VERIFY THE LOCATIONS OF SINK FLOOR DRAINS

NORTH

PLUMBING FIXTURE LAYOUT PLAN 1

1/4"=1'-0" A-102

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PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-102

PLUMBING PLAN

WALL SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO.	DESCRIPTION
W1	6" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W2	3-5/8" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD BOTH SIDES (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W3	6" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD ON KITCHEN SIDE ONLY (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W4	3-5/8" 20GA. METAL STUD WALL W/ 5/8" TYPE "X" GYP. BOARD ON KITCHEN SIDE ONLY (SEE ARCHITECTURAL DETAILS & ELEVATIONS)
W5	EXISTING WALL
W6	DEMISING WALL (NEED TO CONFIRM IF LANDLORD IS BUILDING THE DEMISING WALL)

DOOR SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO.	DOOR MATERIAL	SIZE	FRAME	FACE/EDGE	THK.	CORE	LITE	RATE	HDW
D1	(E) HOLLOW METAL	3'-0" X 7'-0"	H. METAL	METAL PAINTED	1 3/4"	HOLLOW	-	-	EXISTING

INTERIOR PAINT SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	MFG #	COLOR	FINISH	REMARK
P9A	SHERWIN-WILLIAMS	SW 7016	MINDFUL GRAY	PROMAR 200, ZERO VOC, LATEX SEMI-GLOSS	
P106	SHERWIN-WILLIAMS	SW 7069	IRON ORE	PROMAR 200, ZERO VOC, LATEX EGG-SHELL	

WALL PANEL SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MFG #	COLOR FINISH	REMARK
WP1	CRANE COMPOSITES INC.	F.R.P. THICKNESS: .075	LBCS.14	#636 (LIGHT GRAY), SM/SM	CONTACT: WADE WARFORD 425.260.3495
WP2	-	S.S. PANEL (22 GA)	-	STRAIGHT BRUSHED FINISH	FURNISHED BY PX VENDOR, INSTALLED BY G.C.
WP3	-	S.S. PANEL (22 GA)	-	RIBBON FINISH	FURNISHED BY PX VENDOR, INSTALLED BY G.C.
W102	WOLF GORDON	WALL PAPER	CUSTOM	RED BAMBOO	FURNISHED BY PX VENDOR, INSTALLED BY G.C. CONTACT: CATHY DY (310) 770-1165

TILE SCHEDULE

NO.	MANUFACTURER	DESCRIPTION	MFG #	COLOR	FINISH	JOINT	GROUT	REMARKS
QT	CMC OBIDOS SMOOTH QUARRY 800.207.2967 EXT. 7263	8" X 8" QUARRY		RICE GRAIN	PLAIN	3 / 16"	G-94	KITCHEN, SERVICE FLOOR
QT-1	CMC OBIDOS 800.207.2967 EXT. 7263	8" X 8" QUARRY		RICE GRAIN	ABRASIVE	3 / 16"	G-94	KITCHEN, SERVICE FLOOR
QT-2	CMC OBIDOS - COVE BASE SMOOTH QUARRY 800.207.2967 EXT. 7263	6" X 12" COVE BASE 1" X 6" CORNER		RICE GRAIN	PLAIN	3 / 16"	G-94	KITCHEN, SERVICE BASE
T-96	EMSER - PERSPECTIVE COSMOPOLITAN	6" X 12" BASE		CHARCOAL		1/16"	G-93	SERVICE COUNTER BASE CONTACT: KELLY AVATIN 714-778-5777
T-97	SPECCERAMICS MORE - ECLYPSE SCRATCHED - WALL DECO	12" X 36" ON MESH		ECLYPSE		1/8"	G-93	SERVICE COUNTER & FRONT WALL CONTACT: GAIL KELLY 714-231-4555
T-102	BEDROSIAN - BARRIQUE	4" X 24" 1/3 OFFSET RUNNING BOND		VERT		B.JT.	-	WALL TILE CONTACT: JONATHAN EDWARDS 714-778-1800

GROUT

NO.	MANUFACTURER	DESCRIPTION	MFG #	COLOR	FINISH	JOINT	REMARKS
G-93	MAPEI 1.800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT.	#10	BLACK	NON-SANDED	-	BLACK TILES
G-94	MAPEI 800.42.MAPEI WWW.MAPEI.COM	LATEX MODIFIED GROUT	#47	CHARCOAL	SANDED	3 / 16"	KITCHEN AND SERVICE AREA FLOOR. 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT SEE PLAN. CONTACT: MIKE GRANATOWSKI 949-212-2363 (mgranatowski@mapei.com)

* SCHLUTER SYSTEM ALUMINUM TRIM:

COVE TILE TRIM: INSTALLED AT SERVICE COUNTER, AND DRINK STATION (WHERE OCCURS)
SCHLUTER SYSTEMS DILEX-AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR100
- -OUTSIDE CORNER CONNECTOR PIECE: DILEX-AHK-E90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
- -INSIDE CORNER CONNECTOR PIECE: DILEX-AHK-I90/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
- -END CAP PIECE: DILEX-AHK-E/AHK 1S 125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

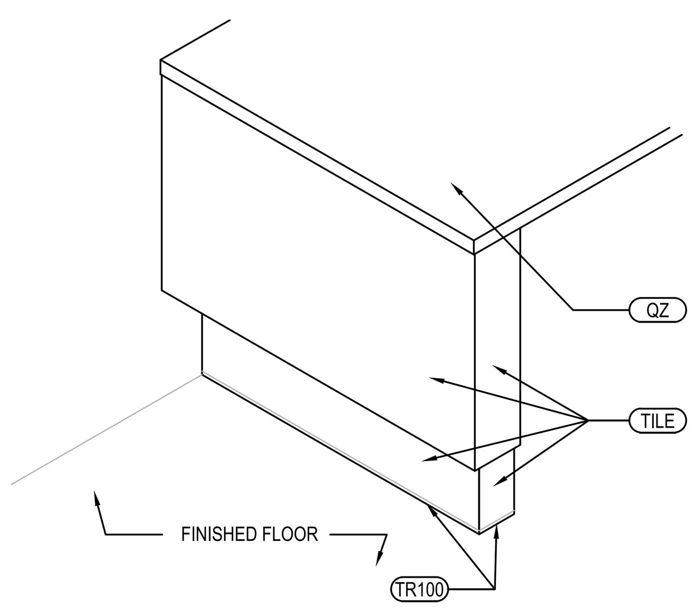
EDGE TILE TRIM:
SCHLUTER SYSTEMS RONDEC-RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

TR101
- -OUTSIDE CORNER CONNECTOR PIECE: RONDEC-EV/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)
- -INSIDE CORNER CONNECTOR PIECE: RONDEC-I2L/RO125 ATGB (BRUSHED NICKEL ANODIZED ALUMINUM)

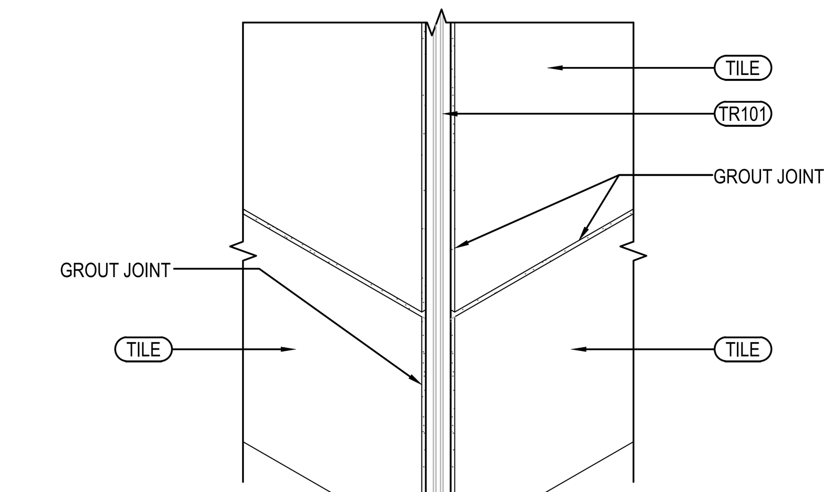
* EPOXY GROUT BY MAPEI, KERAPOXY IEG, 100% SOLIDS INDUSTRIAL GRADE:
AREAS: UNDER HOOD AND 36 " IN FRONT OF COOKING LINE, 3 COMPARTMENT SINK AND MOP SINK AREA

SEE MANUFACTURER'S SPECIFICATION, DETAILS AND GUIDE FOR PREPARATION, MIXING, GROUTING AND CLEANING INSTRUCTION
NOTE: SEE INTERIOR SHEETS FOR WALL/ BASE TILE LOCATIONS AND SPECIFICATIONS

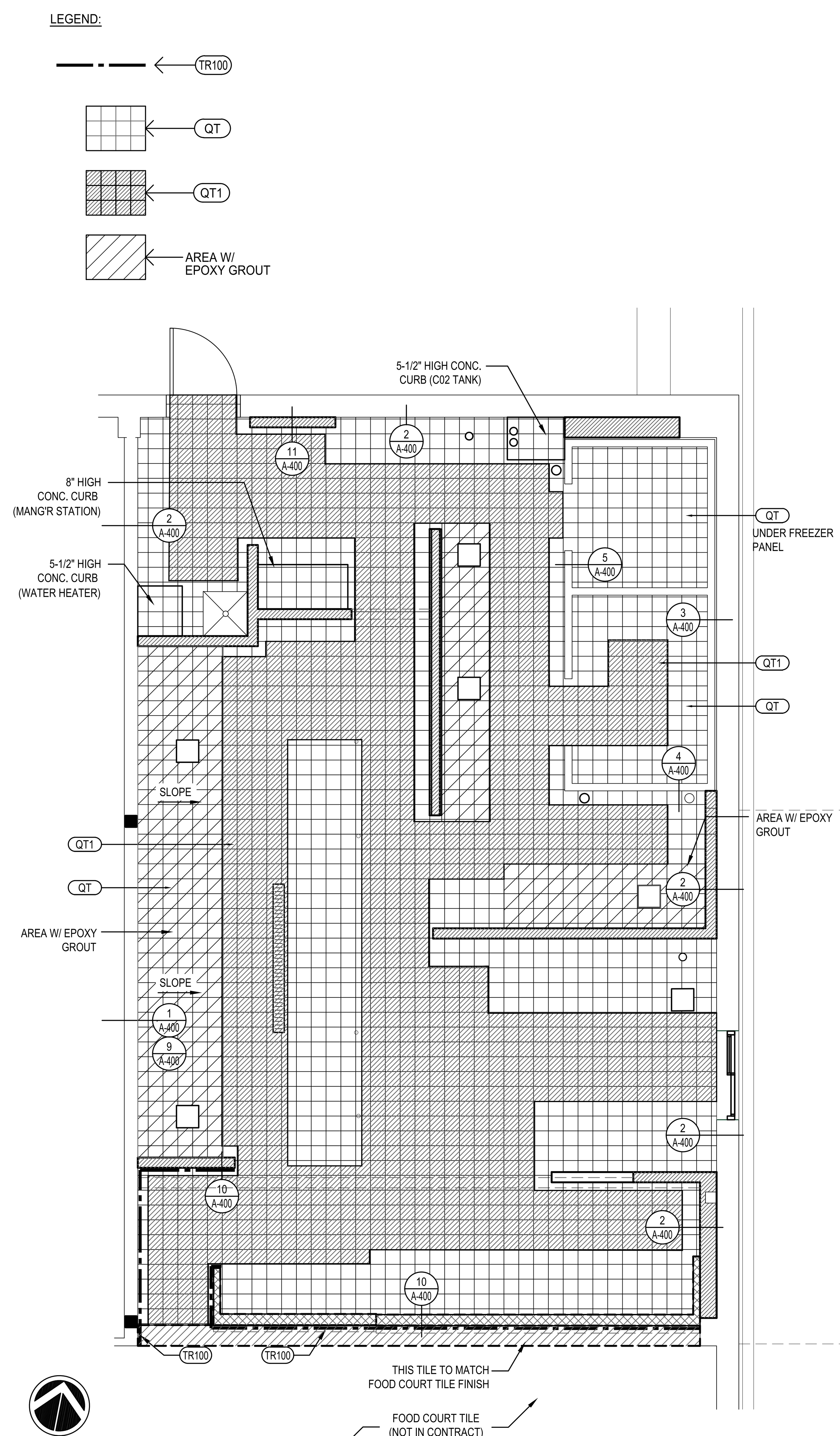
SCHEDULES 5 A-103



SERVICE COUNTER ISOMETRIC 4 A-103
NOT TO SCALE



OUTSIDE CORNER DETAIL 3 A-103
NOT TO SCALE



FLOOR FINISH PLAN 2 A-103
1/4"=1'-0"

NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY PX--INSTALLED BY G.C.:
1. PANEL DIVIDERS AT WP3
2. INSIDE CORNER AT WP3 TO WP2
3. FLASHING AT TOP OF BASE WP3
4. WP2 PIECE AT LENGTH OF WALL
5. ALL OTHER STAINLESS STEEL BY G.C.

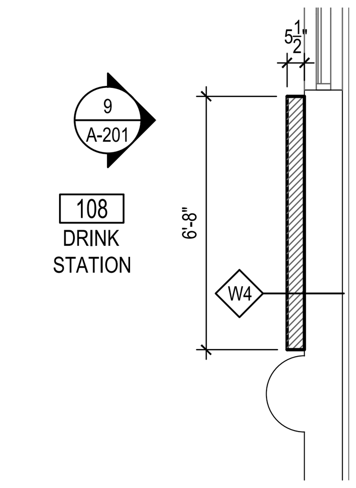
*ALL INTERIOR DIMENSIONS ARE FINISHED TO FINISHED

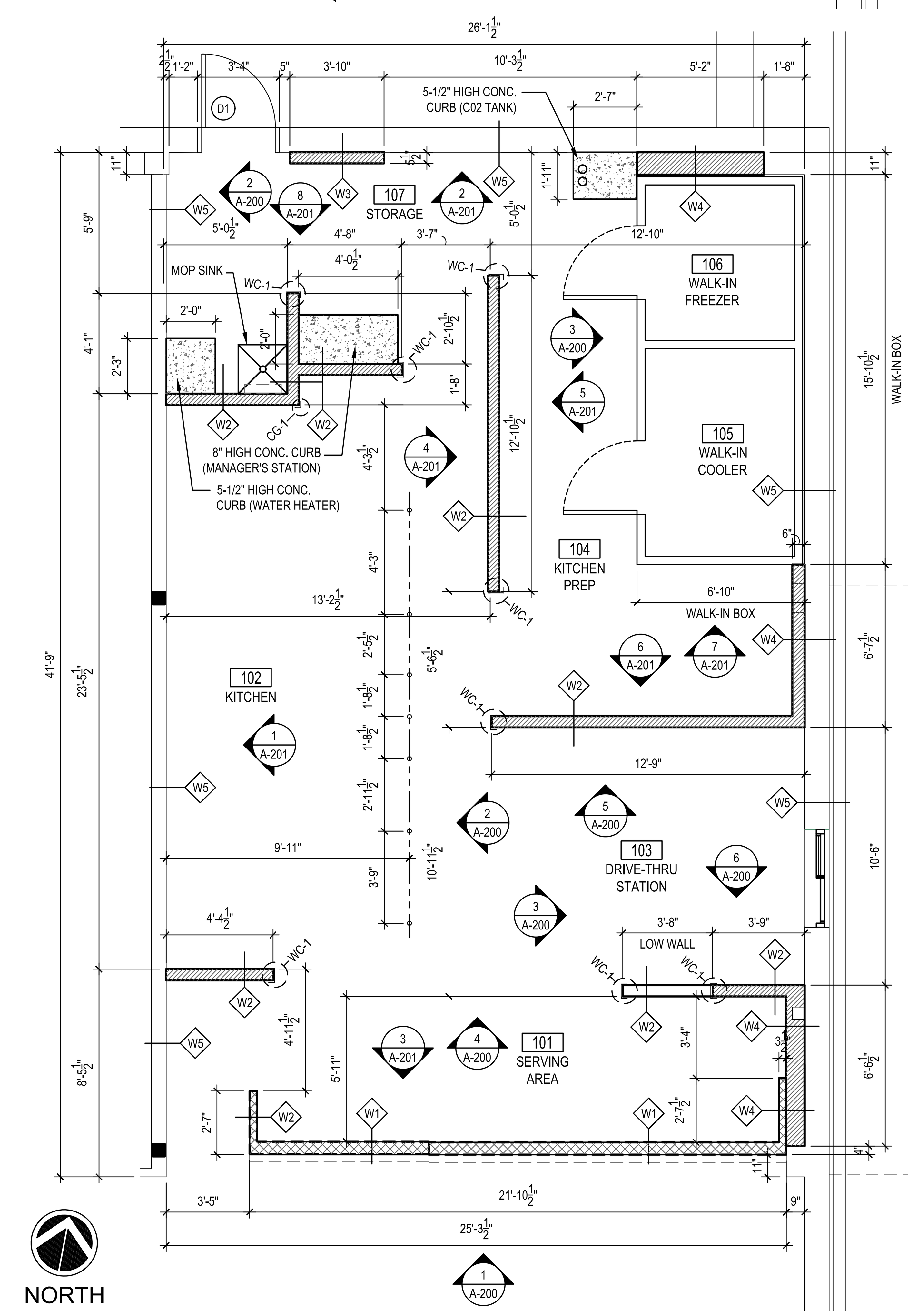
NOTE: THE FOLLOWING STAINLESS STEEL PROVIDED BY G.C.-INSTALLED BY G.C.:

CG-1 18 GA. STAINLESS STEEL CORNER GUARD

CG-2 18 GA. STAINLESS STEEL CORNER GUARD/FRAME - ALL AROUND PERIMETER OF OPENING - FRAME TO BE WELDED WITH MITERED CORNERS TO FORM SINGLE UNIT.

WC-1 18 GA. STAINLESS STEEL WALL CAP





FLOOR PLAN 1 A-103
1/4"=1'-0"

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-103

FLOOR PLAN/ FLOOR FINISH PLAN
SCHEDULES/ DETAILS

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

07-04-2013

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1 56	L1	FLUORESCENT LIGHTING FIXTURE, 2'x4', 120V WITH ONE ELECTRONIC BALLASTS AND T-8 LAMPS. EXTRUDED VIRGIN LENS. BAKED-ON WHITE ENAMEL FINISH.	REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY	LIGHTOLIER T8 FIXTURE: F32T8ADV830EWALTO28WATT XP2GVA232UNVHI 2x28W (USE WARM WHITE 3K)	KITCHEN CEILING LIGHTS. FURNISHED BY LICENSEE INSTALLED BY G.C.
L1EM -	L1EM	T-BAR CEILING RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE, 2' X 4', 120V WITH ONE ELECTRONIC BALLASTS AND T-8 LAMPS, EXTRUDED VIRGIN LENS. BAKED-ON WHITE ENAMEL FINISH.		LIGHTOLIER FIXTURE: XP2GVA232UNVHI -WITH BATTERY BACK UP PACK	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY LICENSEE INSTALLED BY GC
L4 -	L4	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120V WITH BATTERY PACK, 2 FACE, GREEN LETTER		JUNO, NAVILTE, NIBLHO THERMOPLASTIC EMERGENCY LIGHT	EXIT SIGN FURNISHED BY LICENSEE, INSTALLED BY GC
L6A -	L6A	HOOD LIGHT		FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L19 -	L19	DOWN LIGHT, RECESSED IN CEILING		ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-14W-120-FL-27K-W-WH	FURNISHED BY LICENSEE, INSTALLED BY GC
L20 -	L20	3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING		LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 ° BEAM	FURNISHED BY LICENSEE, INSTALLED BY GC
L22 -	L22	PENDANT: CRYSTAL GLOBE COLOR: CLEAR/ RED TYPICAL OF 13; 5"DIA CANOPY (CHROME) AND 3.9"DIA GLOBE LIGHTS		KUD JER ENTERPRISES ITEM NO. GC-UL2015088502-R BULB: G4 LED 4 WATTS AT 12V	FURNISHED BY PANDA VENDOR, INSTALLED BY GC (CONTACT PANDA EXPRESS DESIGN MANAGER FOR VENDOR INFORMATION AND BULB COLORS TO BE USED)
L31 -	L31	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL: PARALLEL SERIES (CANNISTER) COLOR: DARK BRONZE/ RUBY SIZE: 7"W X 10" H	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524
L32 -	L32	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL:PARALLEL SERIES (WIDE CYLINDER) COLOR: DARK BRONZE/ RUBY (10"W X 7" H)	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524
L33 -	L33	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL:PARALLEL SERIES (CYLINDER) COLOR: DARK BRONZE/ RUBY (5"W X 11" H)	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524

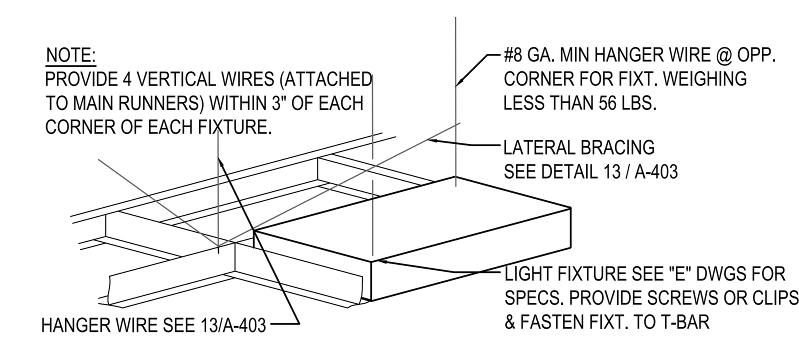
NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE
4. ONE NL BY MANAGER STATION

CEILING SCHEDULE

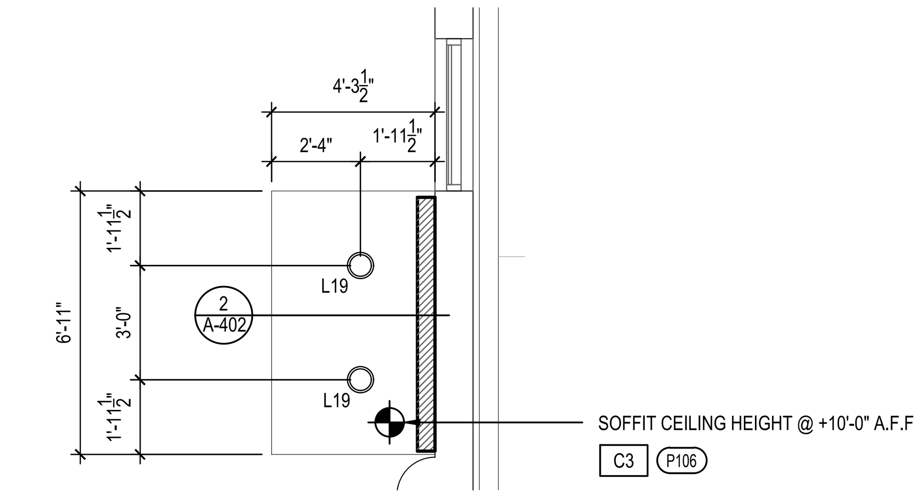
INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE SEE DETAIL 17/A-400
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE

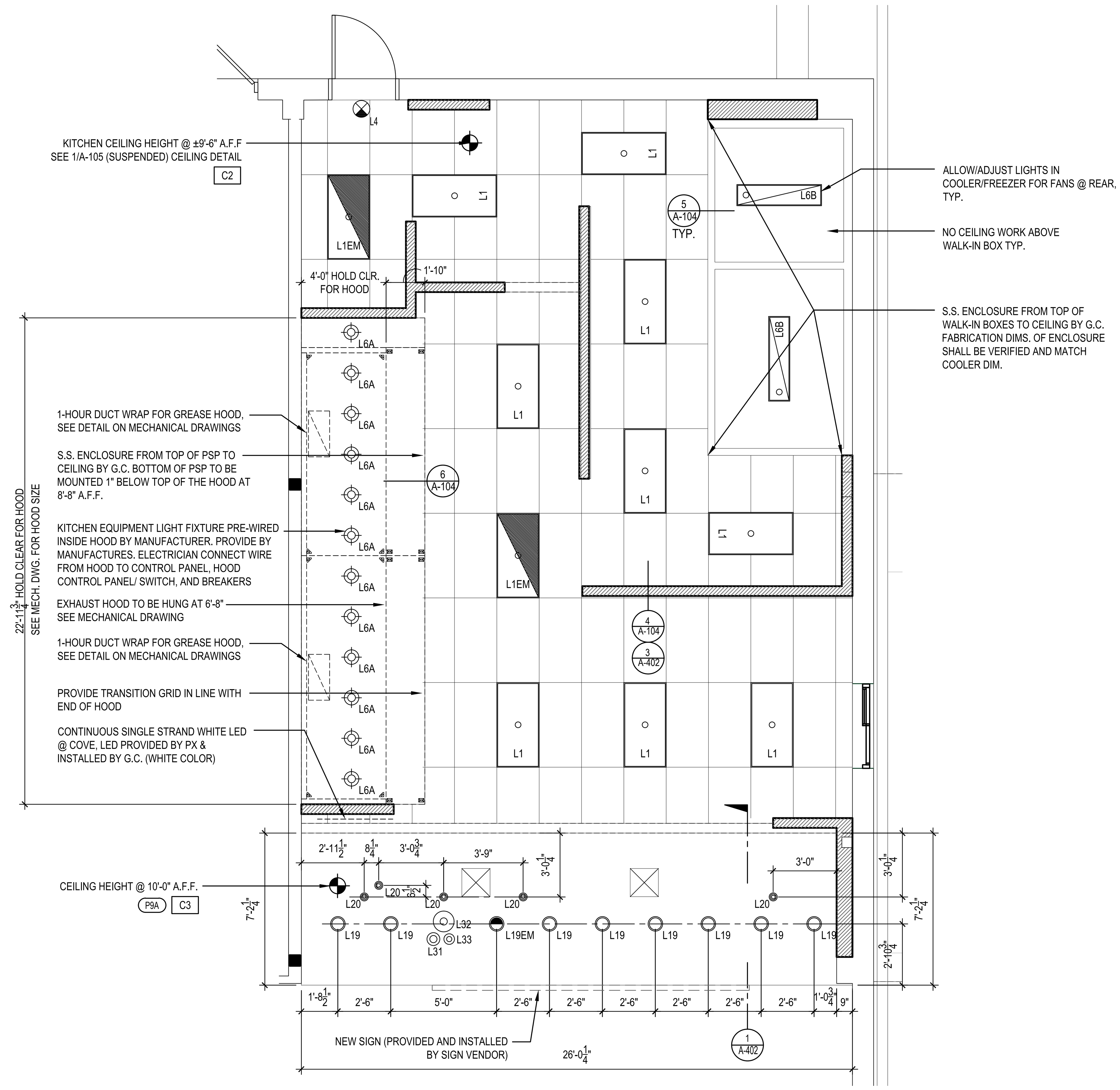
SCHEDULES 7 A-104



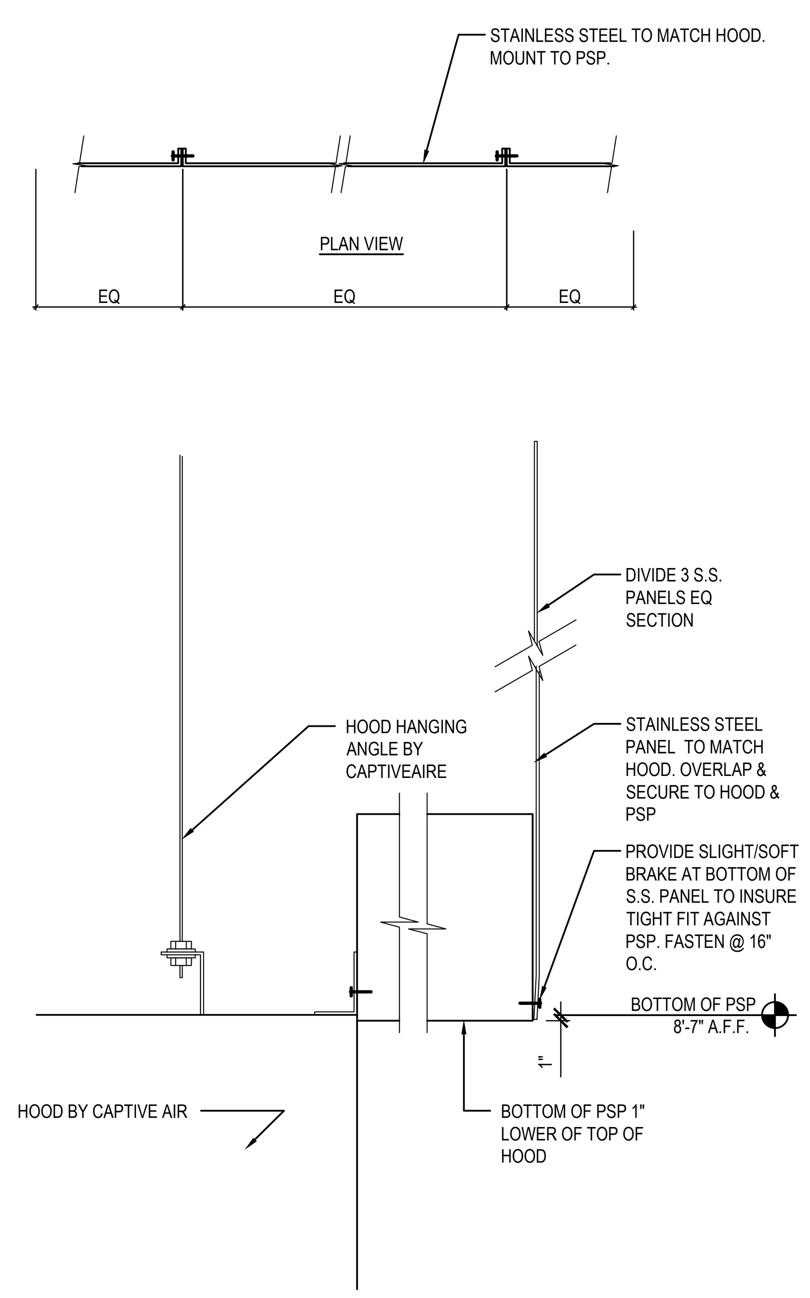
LIGHT FIXTURE DETAIL 3
NOT TO SCALE A-104



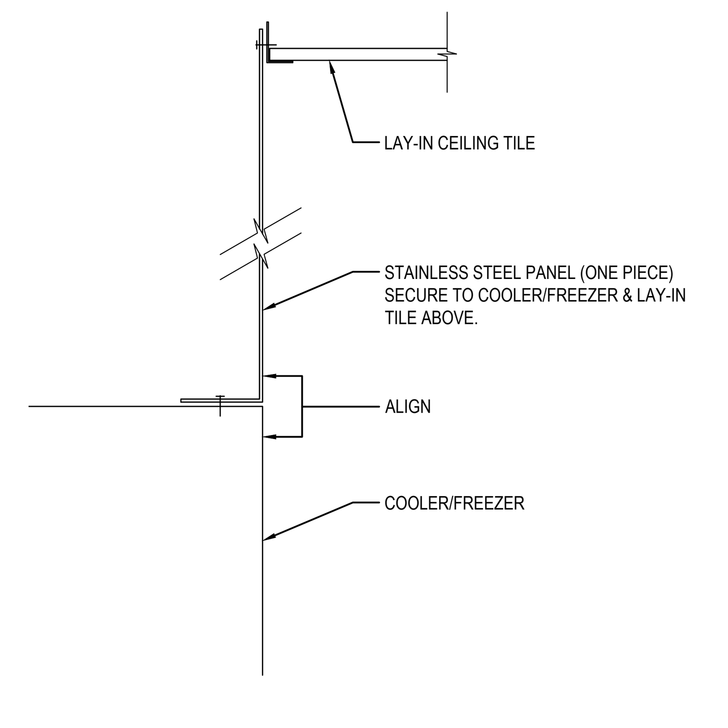
REFLECTED CEILING PLAN @ DRINK STATION 2
1/4"=1'-0" A-104



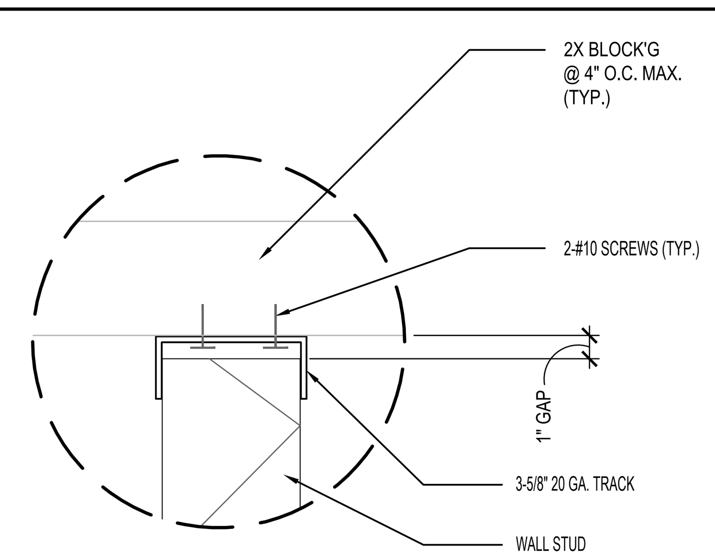
REFLECTED CEILING PLAN 1
1/4"=1'-0" A-104



S.S DETAIL AT HOOD 6
NOT TO SCALE A-104



S.S CONNECTION DETAIL AT WALK-IN BOX 5
NOT TO SCALE A-104



METAL STUD CONNECTION DETAIL 4
NOT TO SCALE A-104

PANDA EXPRESS CHINESE KITCHEN

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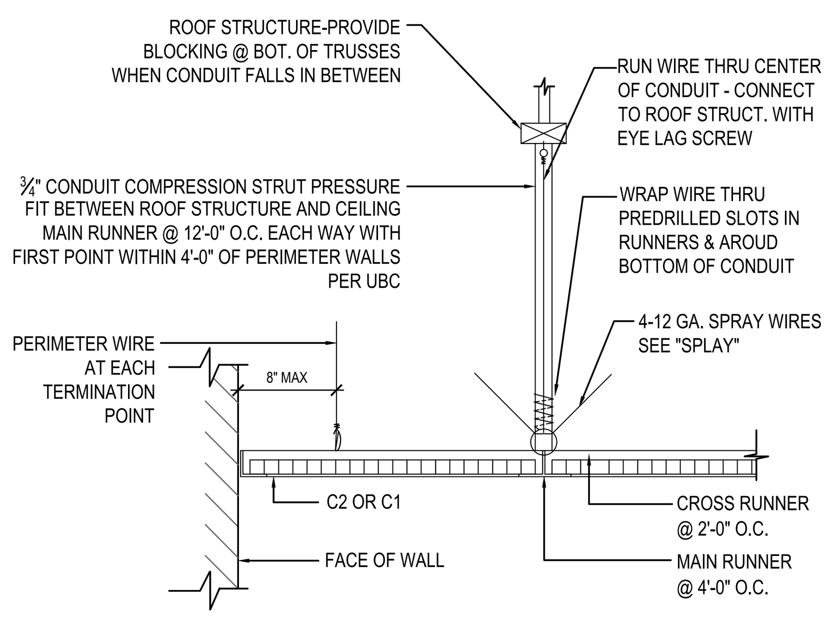
A-104

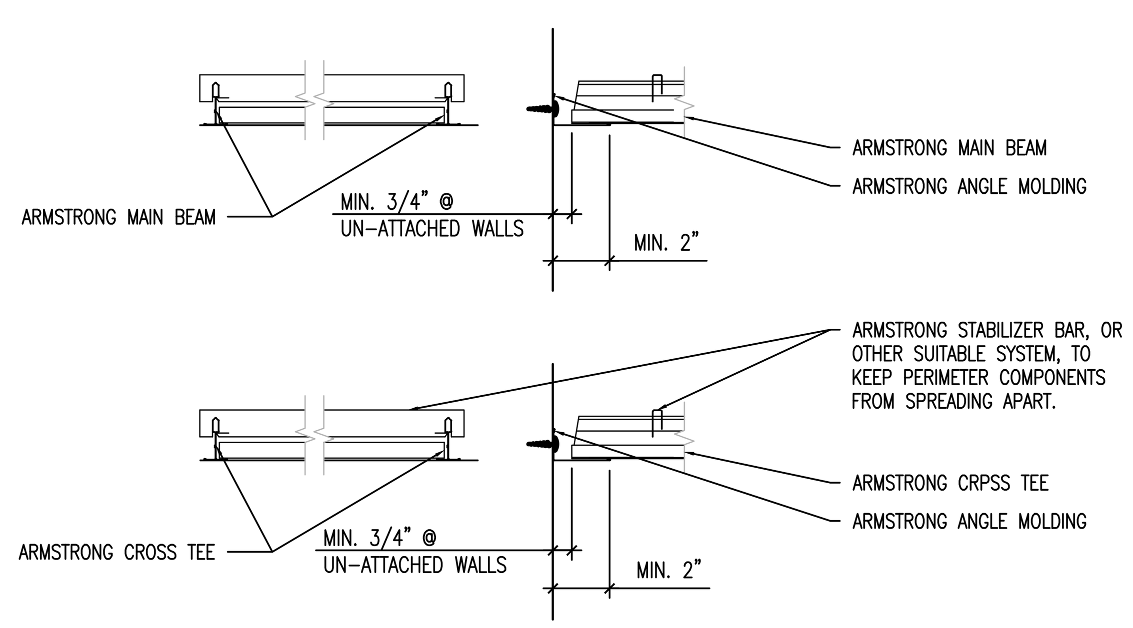
REFLECTED CEILING PLAN



NOTE: THIS DETAIL IS APPLICABLE IN SEISMIC ZONES OR WHERE REQUIRED BY LOCAL CODE.

CEILING DETAIL 4

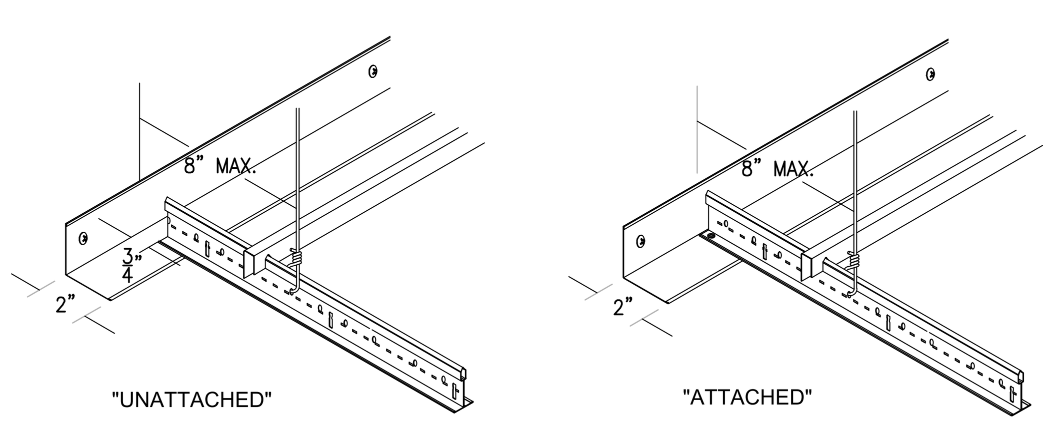
N.T.S. A-105



Side View Category D, E & F Details

SIDE VIEW CATEGORY D, E & F DETAILS 3

N.T.S. A-105



"UNATTACHED"

"ATTACHED"

D. SIDE REACH LIMITS

CATEGORY D, E & F STANDARD DETAIL 2

N.T.S. A-105

SUSPENDED CEILING NOTES:

A. A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED. SPECIFIED ON CEILING SCHEDULE ON SHEET A-105.

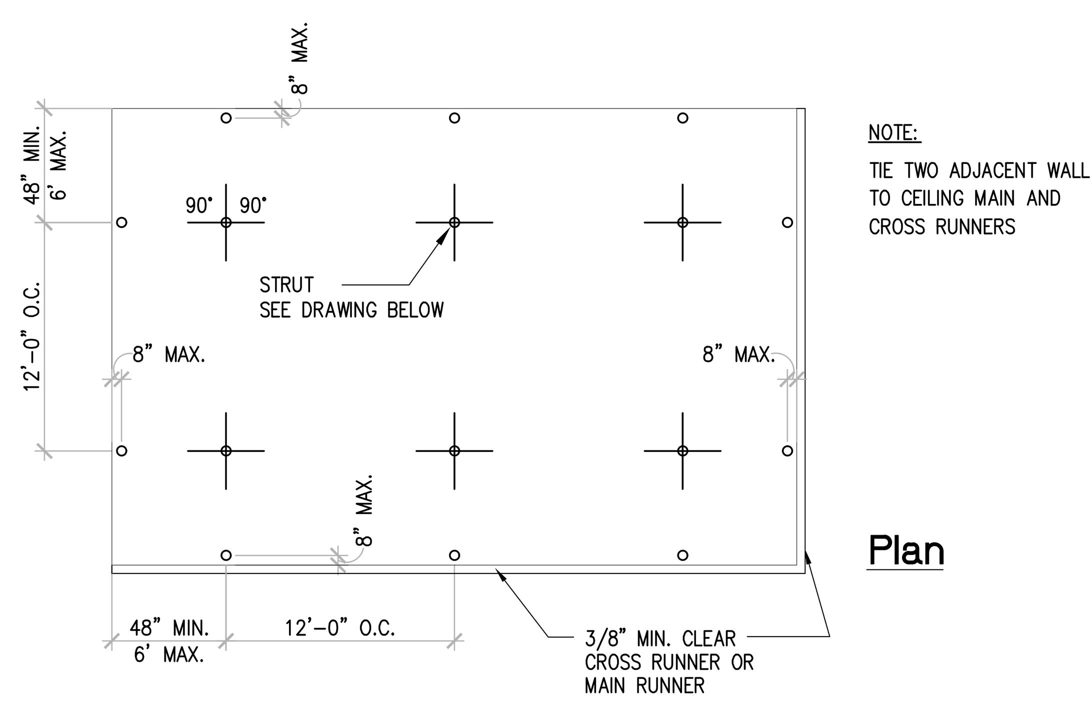
B. EACH SUSPENDED CEILING AREA SHALL BE PROVIDED WITH CLOSURE ANGLES NOT LESS THAN 2" IN WIDTH. IN EACH ORTHOGONAL HORIZONTAL DIMENSION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END SHALL HAVE A 0.75" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE CLOSURE ANGLE.

C. FOR CEILING AREA EXCEEDING 2500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2500 SF SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSIS ARE PERFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. EACH AREA SHALL BE PROVIDED WITH CLOSURE ANGLES.

D. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATION SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVES, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1" OF CEILING MOVEMENT IN ALL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

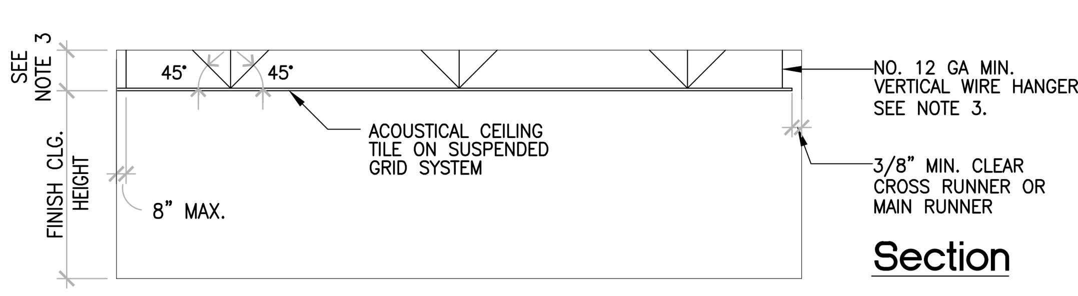
E. LATERAL BRACING FOR SUSPENDED CEILING SHALL BE PROVIDED. WHERE CEILING IS NOT SUPPORTING INTERIOR PARTITIONS, CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GUAGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING. A STRUT (ADEQUATE TO RESIST THE VERTICAL COMPONENT FROM LATERAL LOADS) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS OF THE ROOF OR FLOOR ABOVE. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12'-0" O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" OF EACH WALL. ATTACHMENT OF RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

F. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

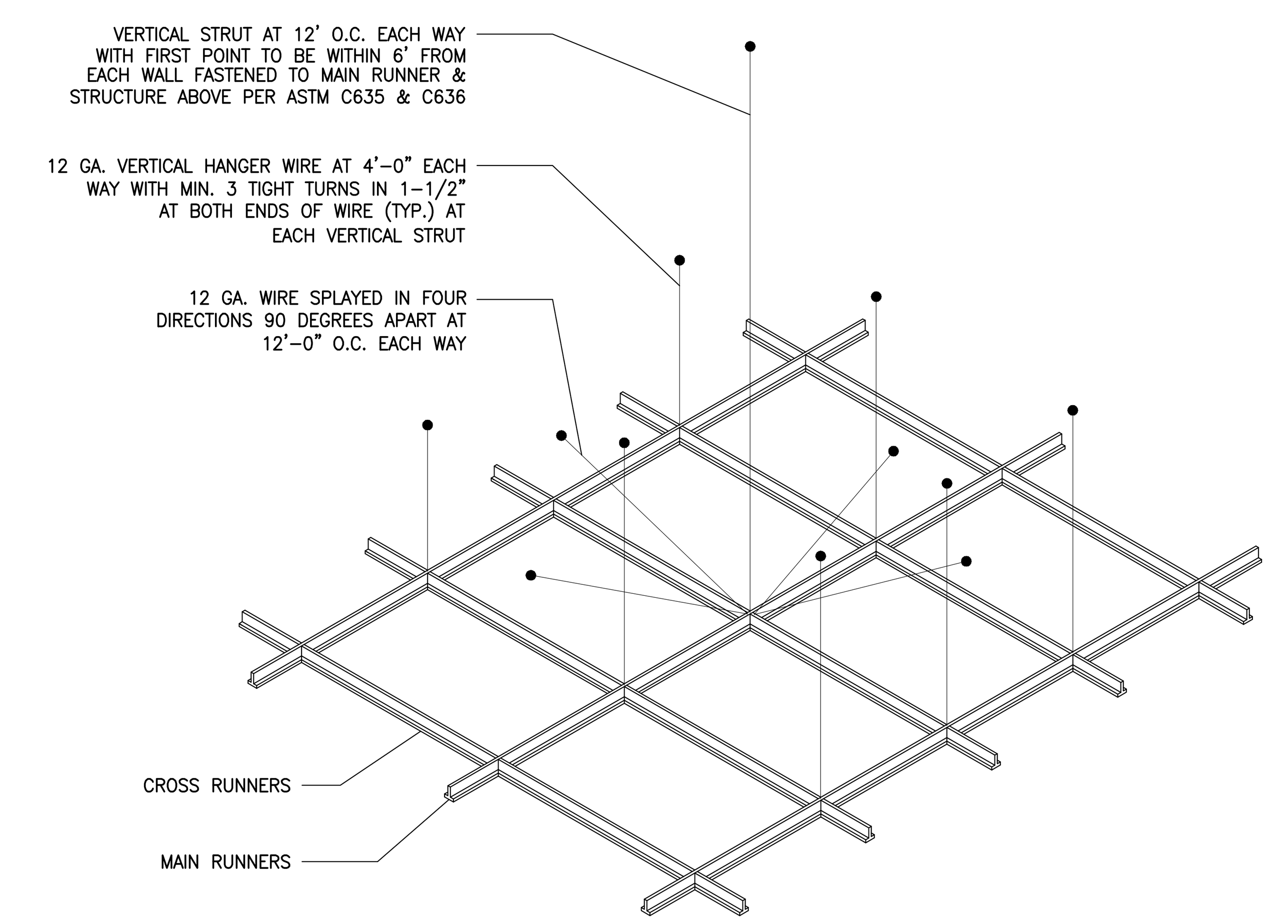


NOTE:
TIE TWO ADJACENT WALL TO CEILING MAIN AND CROSS RUNNERS

Plan



Section



SUSPENDED CEILING SYSTEMS– ASCE 7-05 SECTION 13.5.6, ASTM C635 & ASTM C636

SUSPENDED CEILING SYSTEMS SHALL BE DESIGNED TO RESIST A LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. FOR PURPOSES OF DETERMINING THE LATERAL FORCE, A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT SHALL BE USED.

WHEN THE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING SYSTEM MAY BE EMPLOYED:

1. ALLOWANCE SHALL BE MADE FOR LATERAL MOVEMENT OF THE SYSTEM. MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED AT TWO ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT OTHER TWO WALLS.
2. VERTICAL SUPPORT SHALL BE PROVIDED AS REQUIRED IN UBC STANDARD, WITH THE ADDED REQUIREMENT THAT DISCONTINUOUS ENDS OF CROSS RUNNERS AND MAIN RUNNERS SHALL BE VERTICALLY SUPPORTED WITHIN 8" OF SUCH DISCONTINUITIES AS MAY OCCUR WHEN THE CEILING IS DISRUPTED BY A WALL.
3. LIGHTING FIXTURES AND AIR DIFFUSERS SHALL BE SUPPORTED DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.

TYP. SUSPENDED CEILING VERTICAL AND LATERAL SUPPORT DETAIL 1

N.T.S. A-105

CONSTRUCTION SET - 2017/0730

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

1	ARCHITECTURAL DETAILS	07/30/2017

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CHECKED BY: CF
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
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FAX: (817) 635-5699

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LICENSE NO: 10225
EXPIRATION DATE: 1-19-2019

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

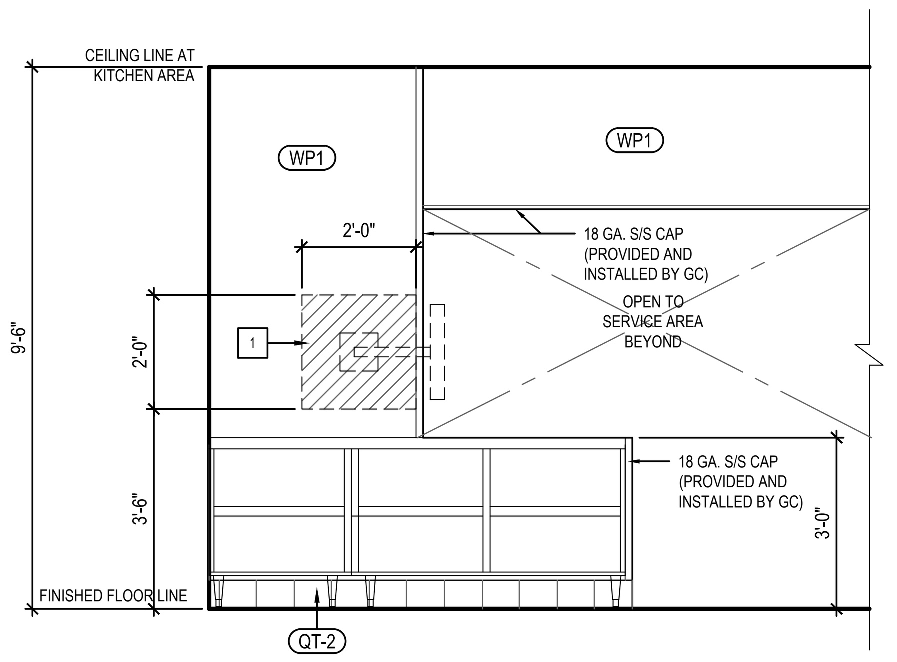
A-105

CEILING DETAILS

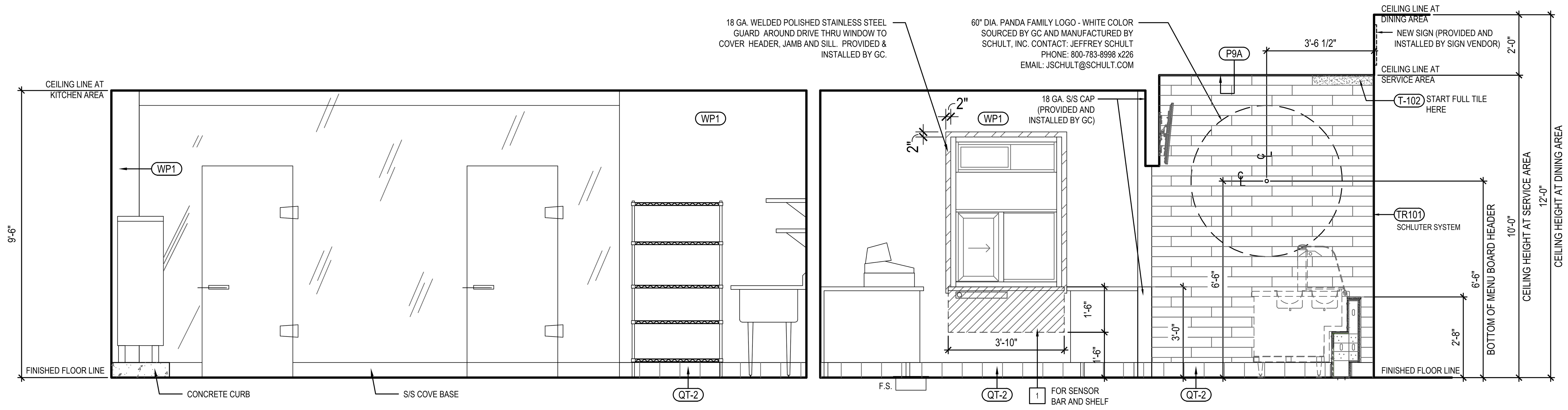
1 CONCEALED BACKING AS INDICATED BY THE DASHED BOX AREAS AROUND WALL SHELVING, SINK BACKS, ETC. SHALL CONSIST OF THE FOLLOWING:

1) BACKING @ ALL RATED WALLS AND WALL UNDER EXHAUST HOOD SHALL CONSIST OF 6" 20 GA. METAL STRAPS INSTALLED PRIOR TO INSTALLATION OF GYP. BOARD @ ALL AREAS REQUIRED FOR FASTENING EQUIPMENT SECURELY TO STUD WALL.

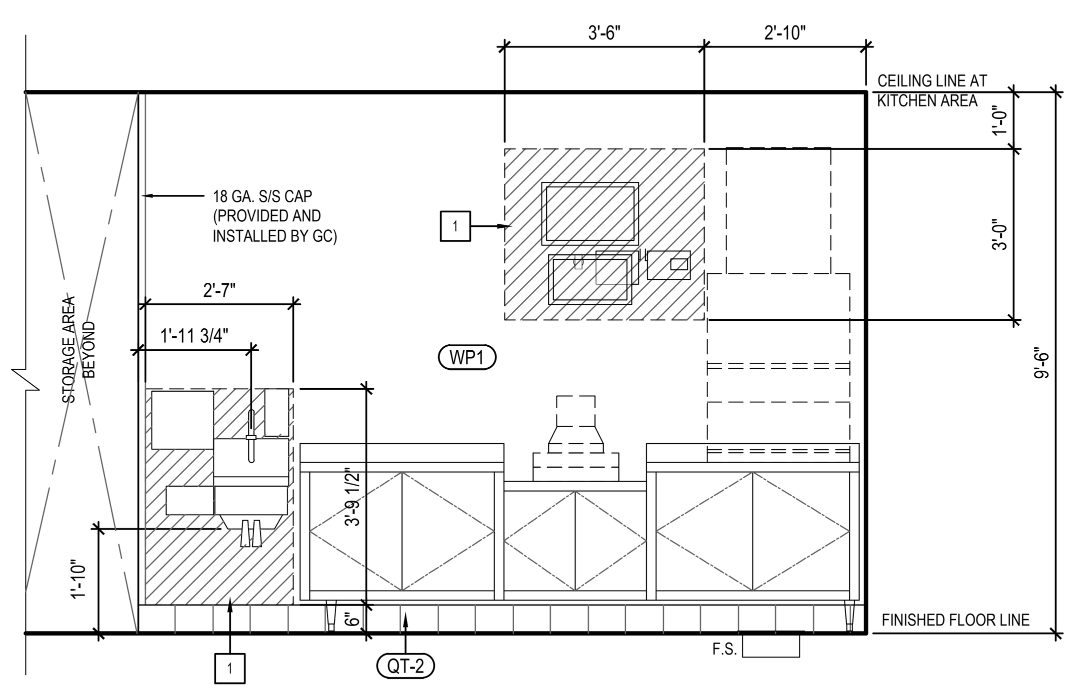
2) BACKING @ ALL OTHER WALLS SHALL CONSIST OF 5/8" PLYWOOD SHEATHING BEHIND GYP. BOARD WITHIN DASHED BOX AREAS. FINISH OVER WITH SPECIFIED WALL PANEL FINISH PER KITCHEN ELEVATIONS.



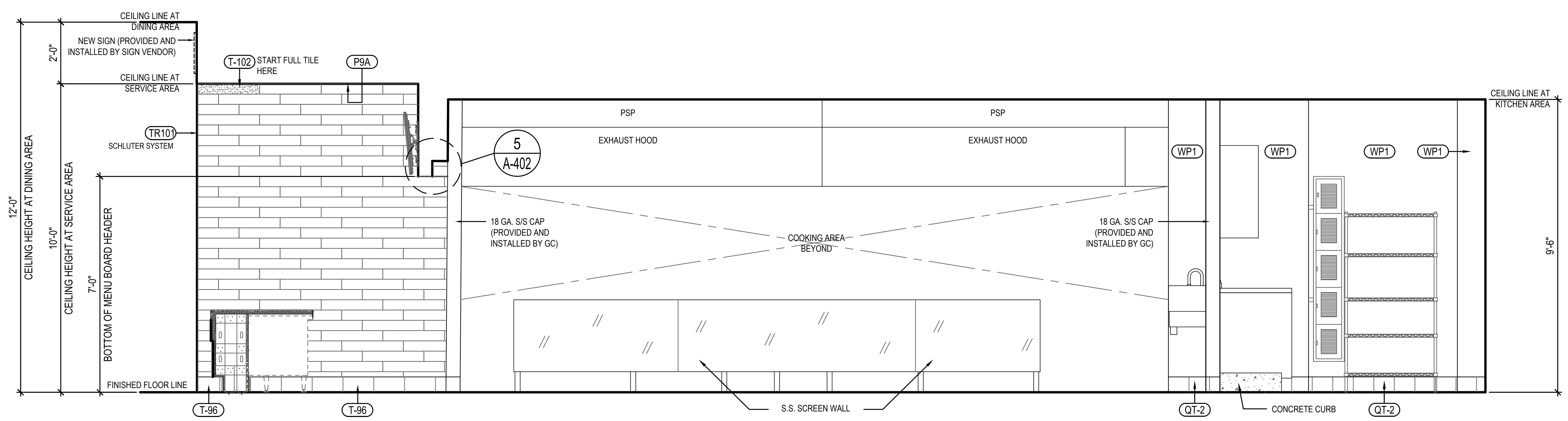
INTERIOR ELEVATION 6
Scale: 3/8" = 1'-0" A-200



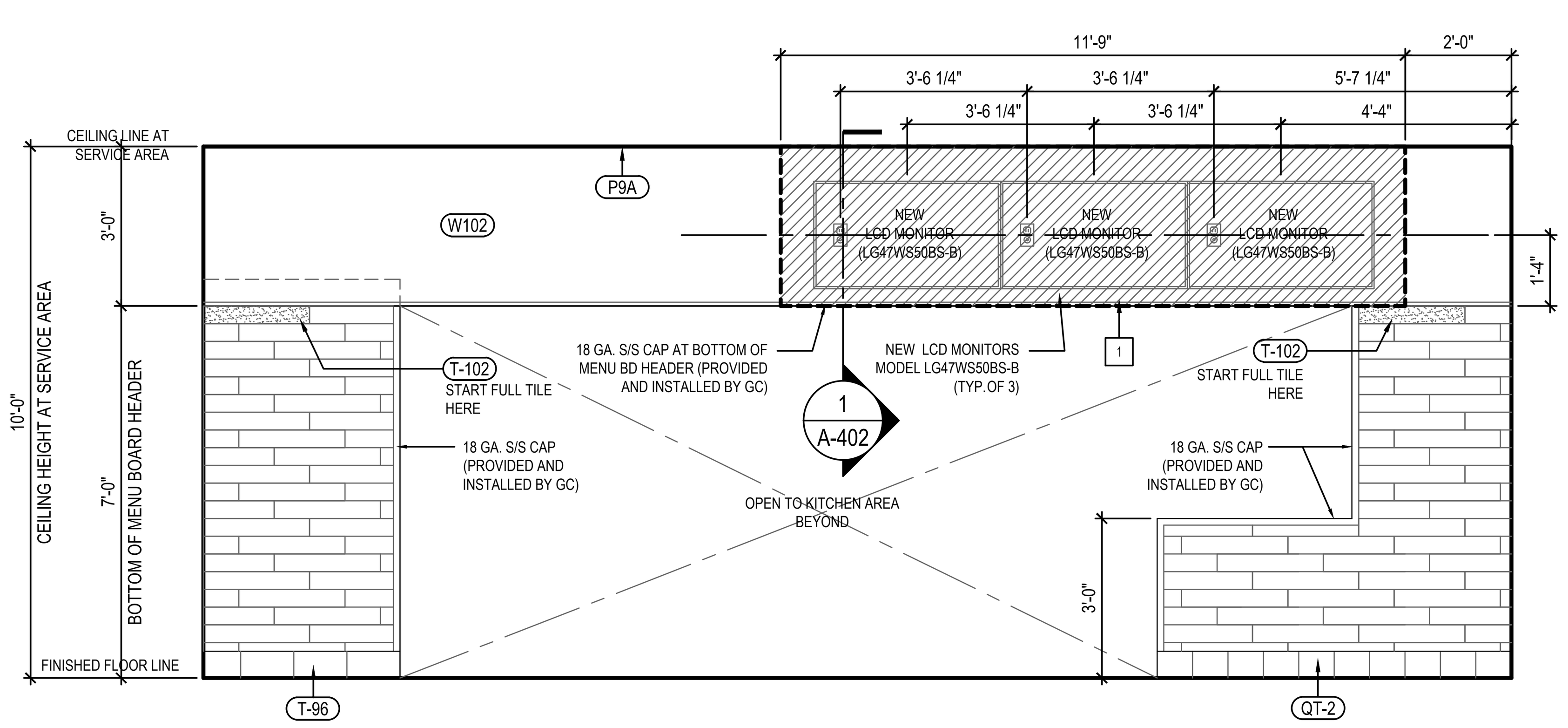
INTERIOR ELEVATION 3
Scale: 3/8" = 1'-0" A-200



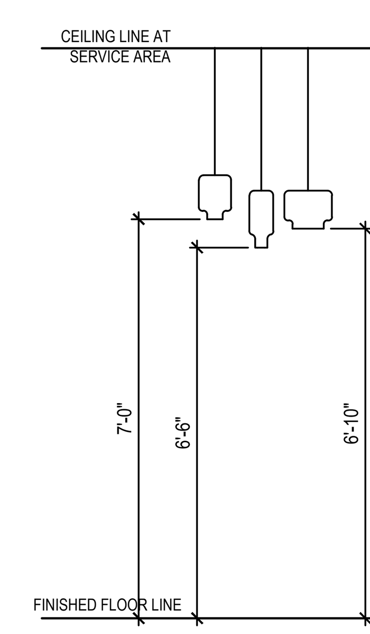
INTERIOR ELEVATION 5
Scale: 3/8" = 1'-0" A-200

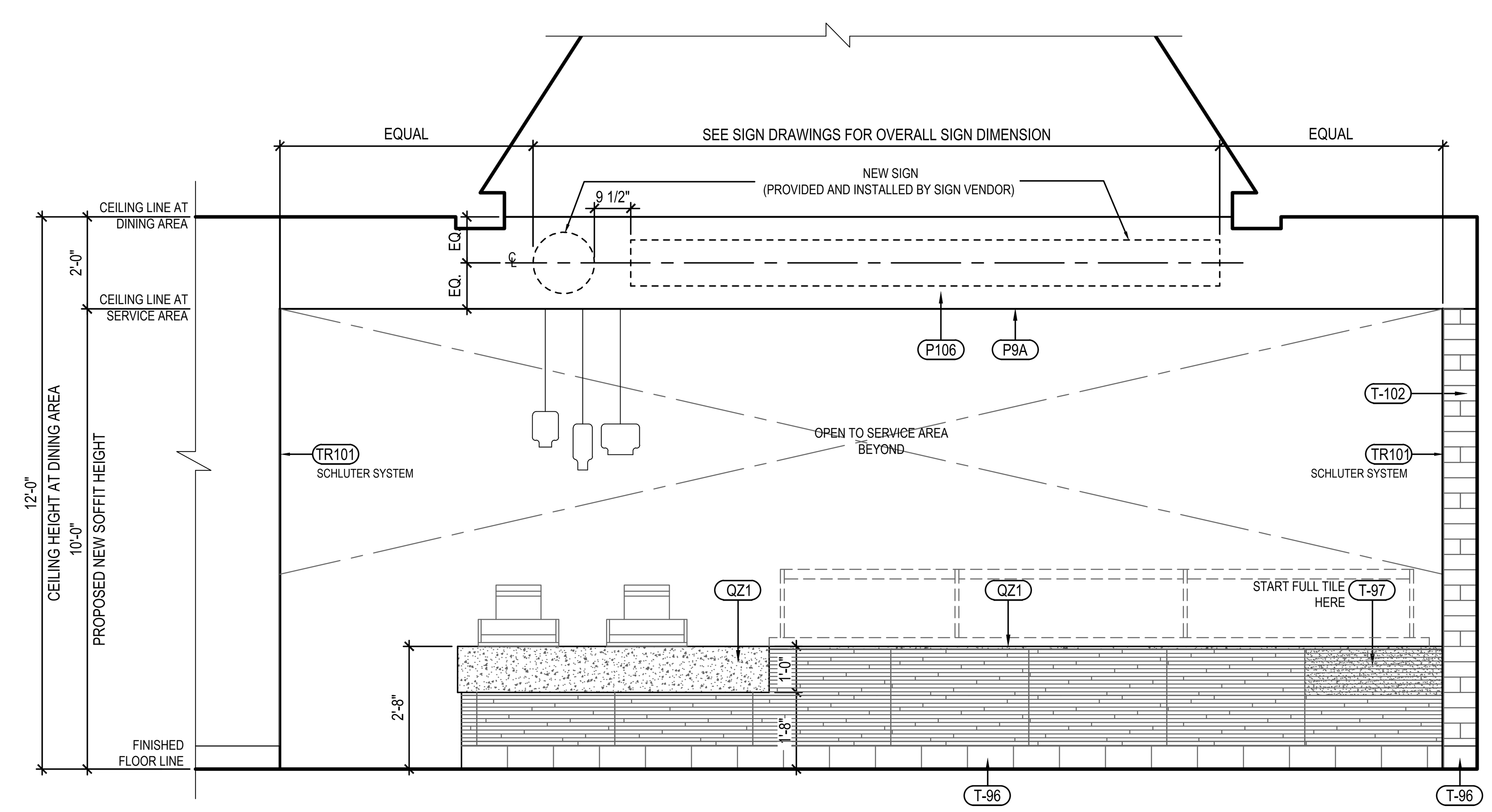


INTERIOR ELEVATION 2
Scale: 3/8" = 1'-0" A-200



INTERIOR ELEVATION 4
Scale: 3/8" = 1'-0" A-200





INTERIOR ELEVATION 1
Scale: 3/8" = 1'-0" A-200

CONSTRUCTION SET - 2017/0730

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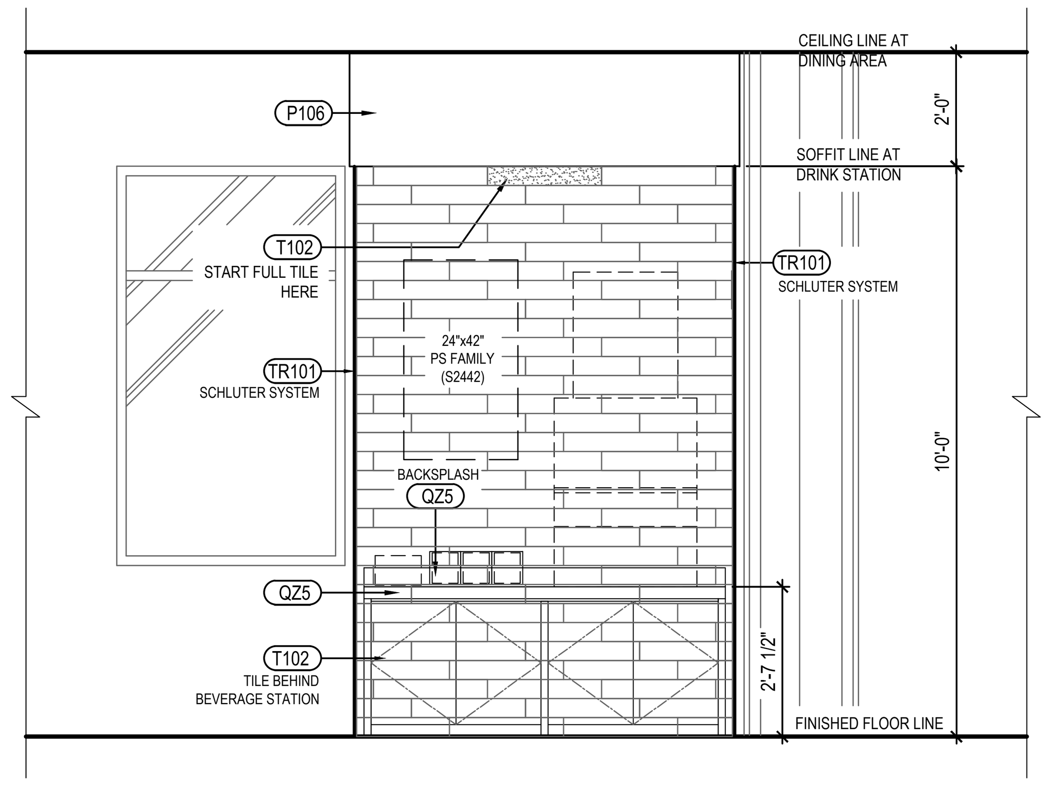
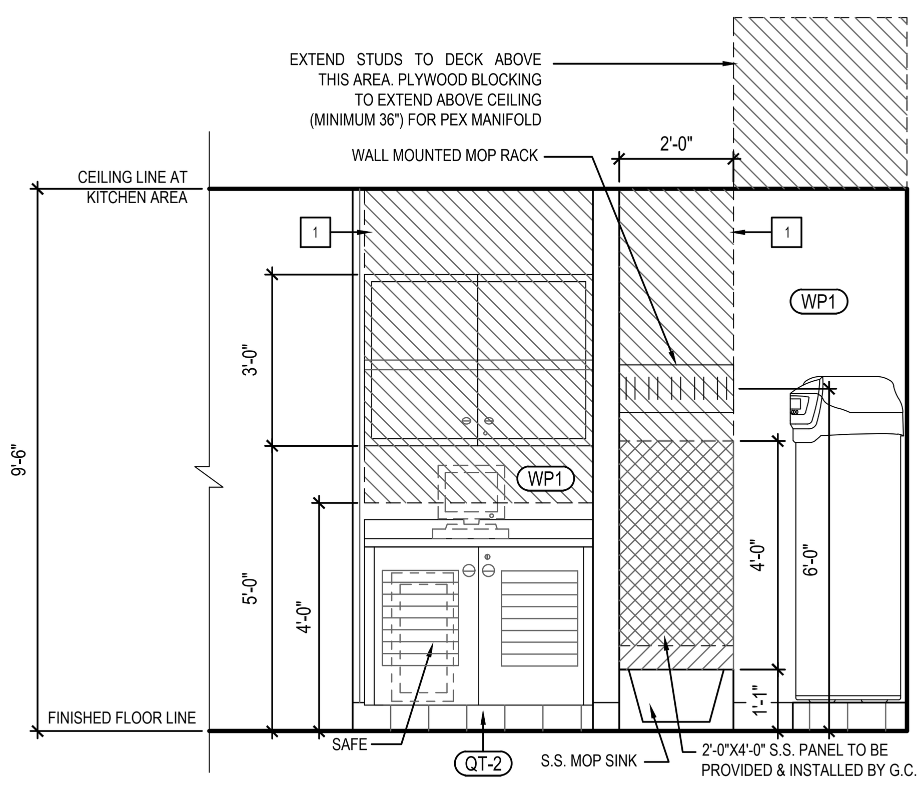
PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-200

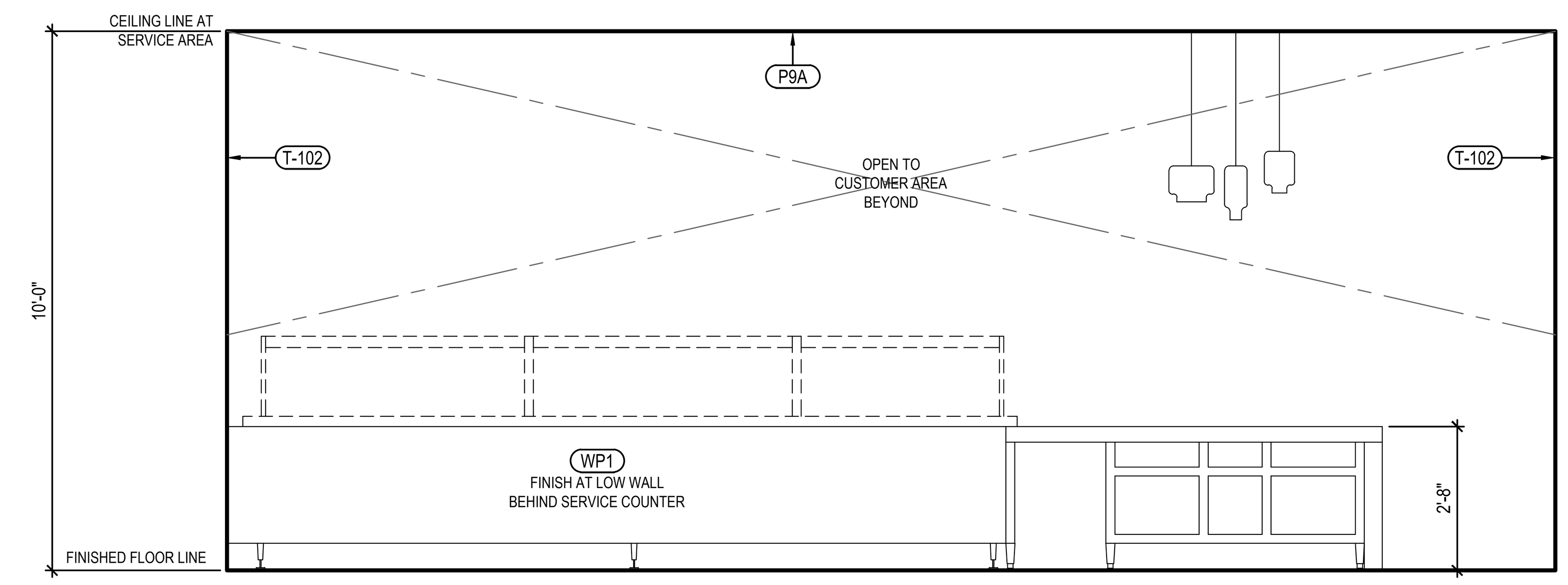
INTERIOR ELEVATIONS



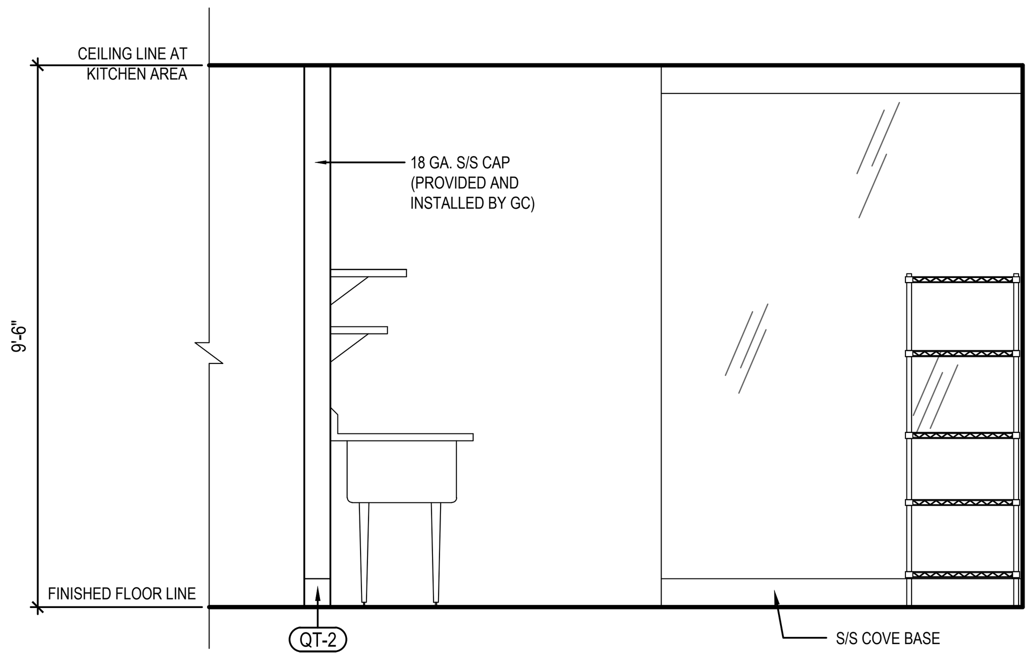
INTERIOR ELEVATION 9
Scale: 3/8" = 1'-0" A-201



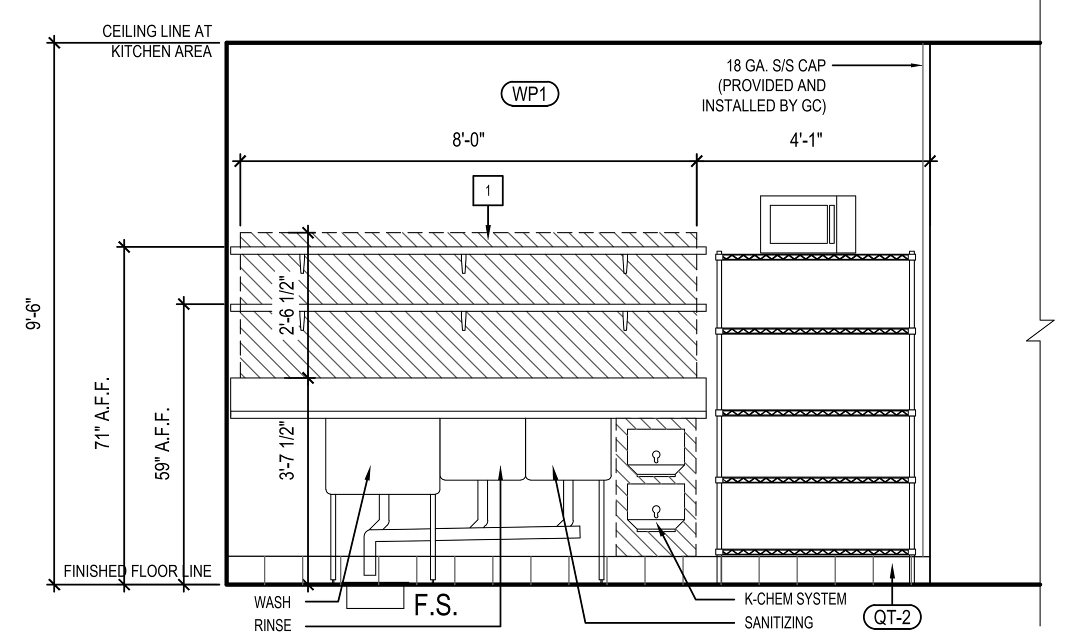
INTERIOR ELEVATION 8
Scale: 3/8" = 1'-0" A-201



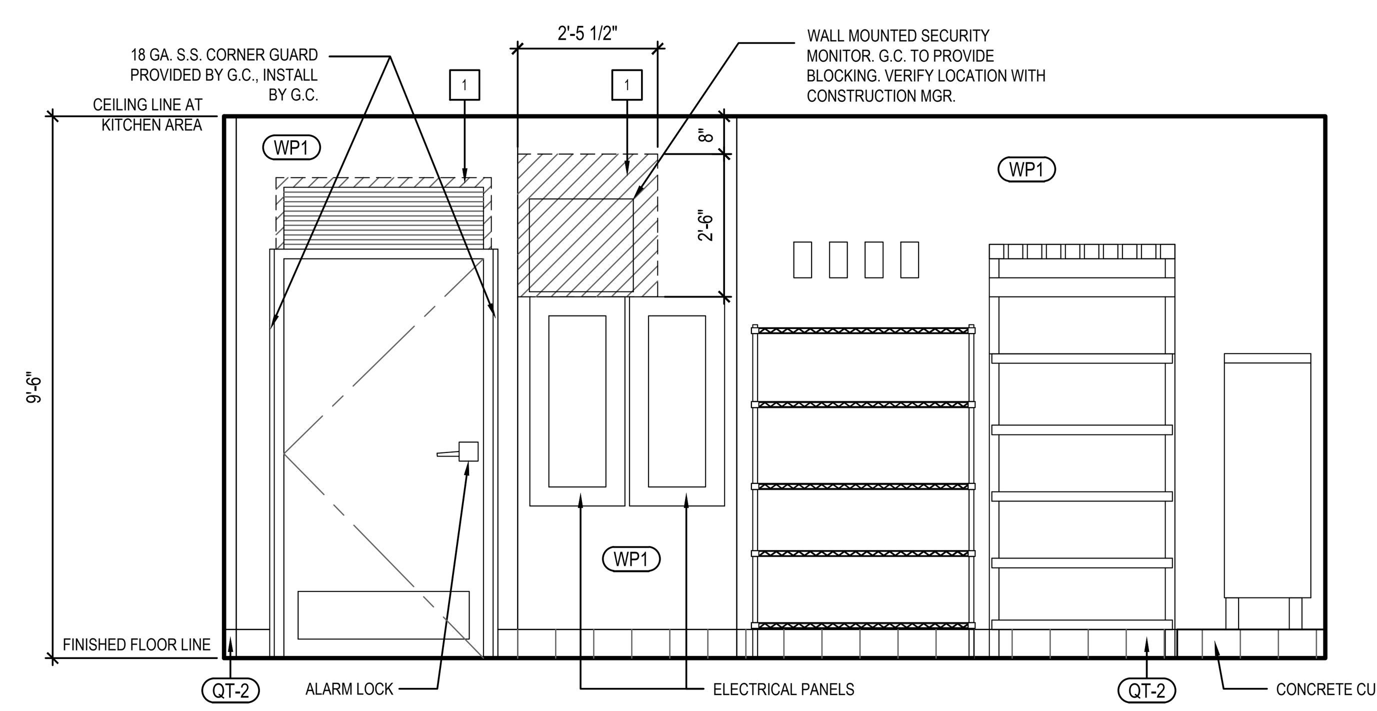
INTERIOR ELEVATION 3
Scale: 3/8" = 1'-0" A-201



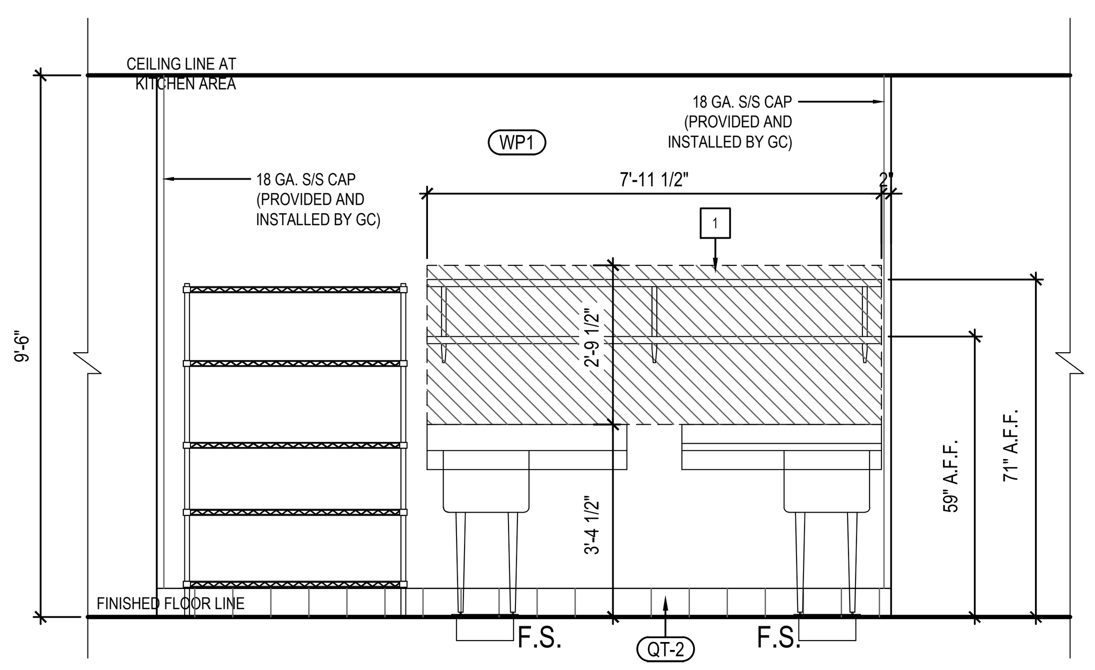
INTERIOR ELEVATION 7
Scale: 3/8" = 1'-0" A-201



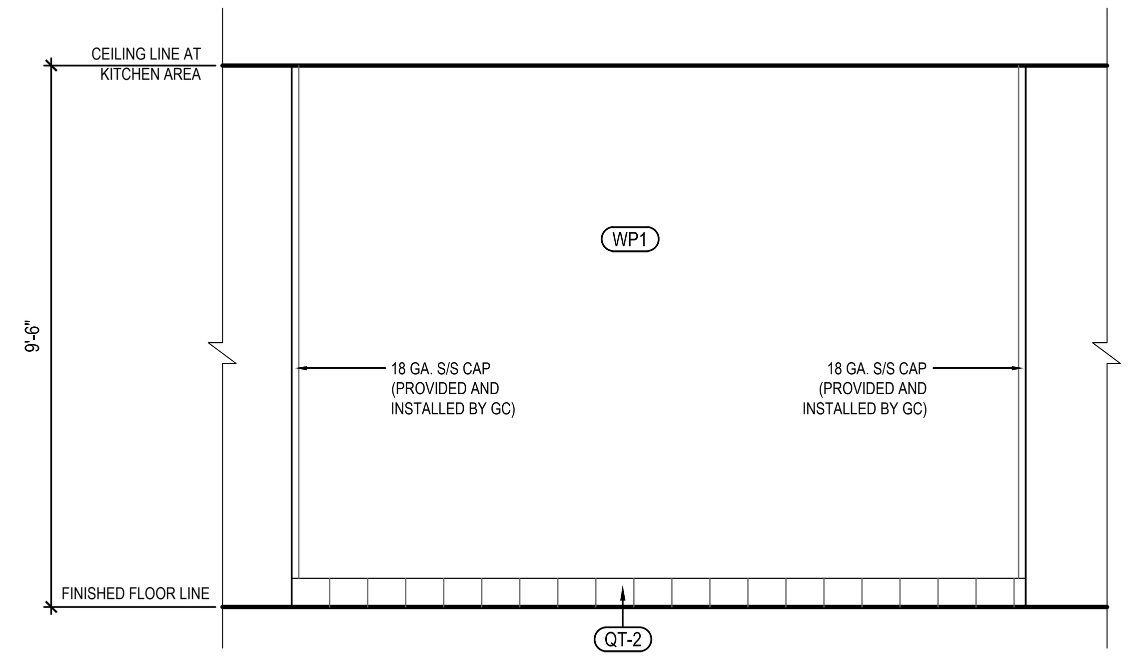
INTERIOR ELEVATION 6
Scale: 3/8" = 1'-0" A-201



INTERIOR ELEVATION 2
Scale: 3/8" = 1'-0" A-201



INTERIOR ELEVATION 5
Scale: 3/8" = 1'-0" A-201



INTERIOR ELEVATION 4
Scale: 3/8" = 1'-0" A-201

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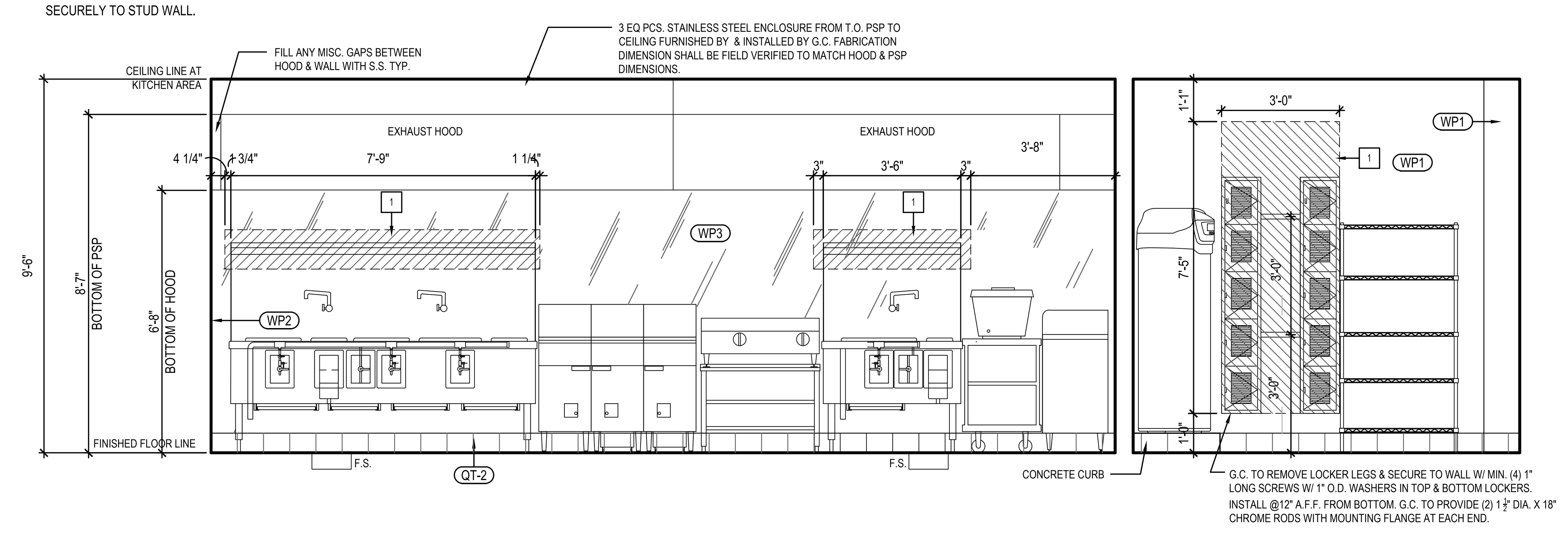

INTERIOR ELEVATION 1
Scale: 3/8" = 1'-0" A-201

CONSTRUCTION SET - 2017/0730

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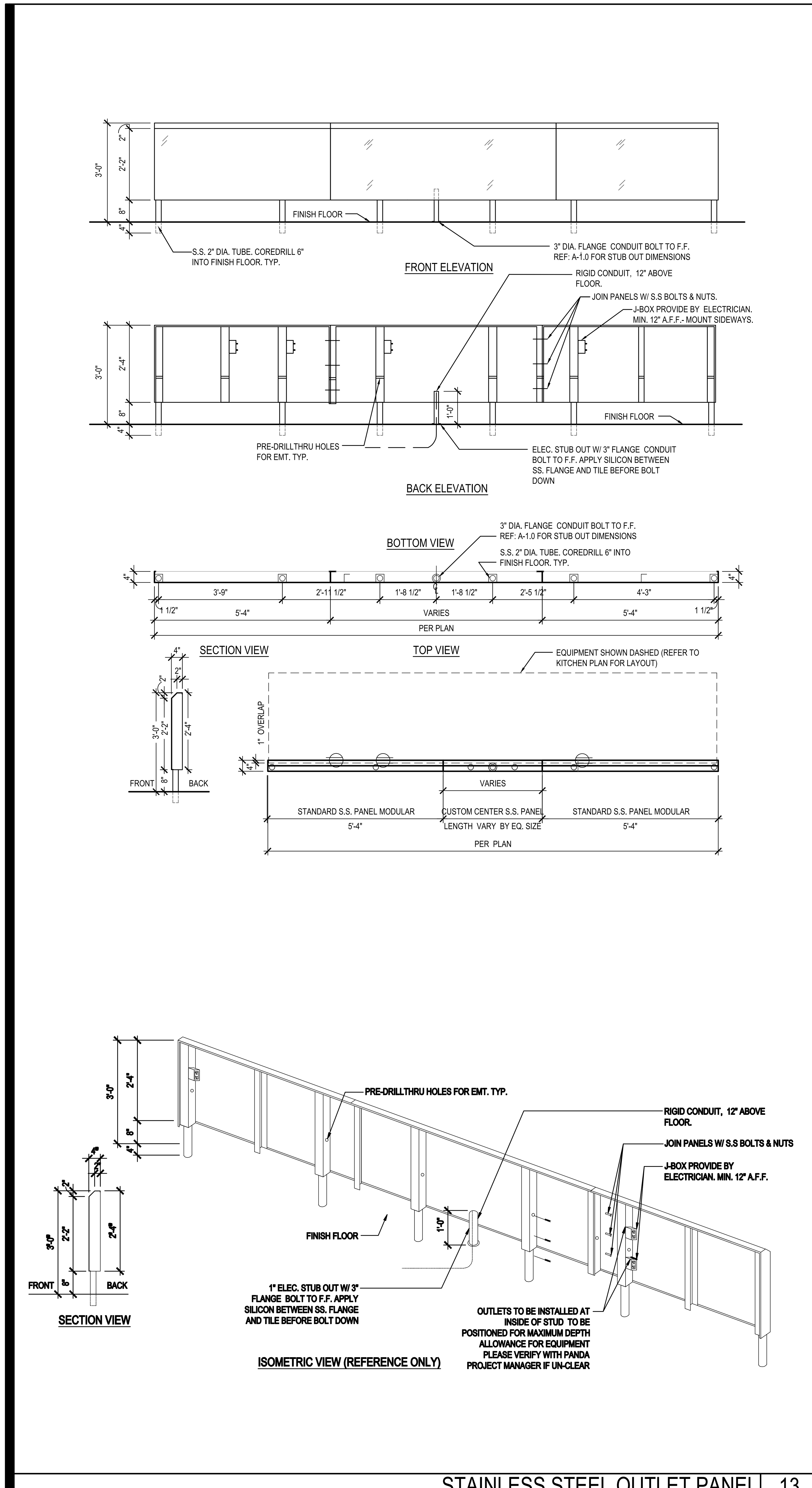
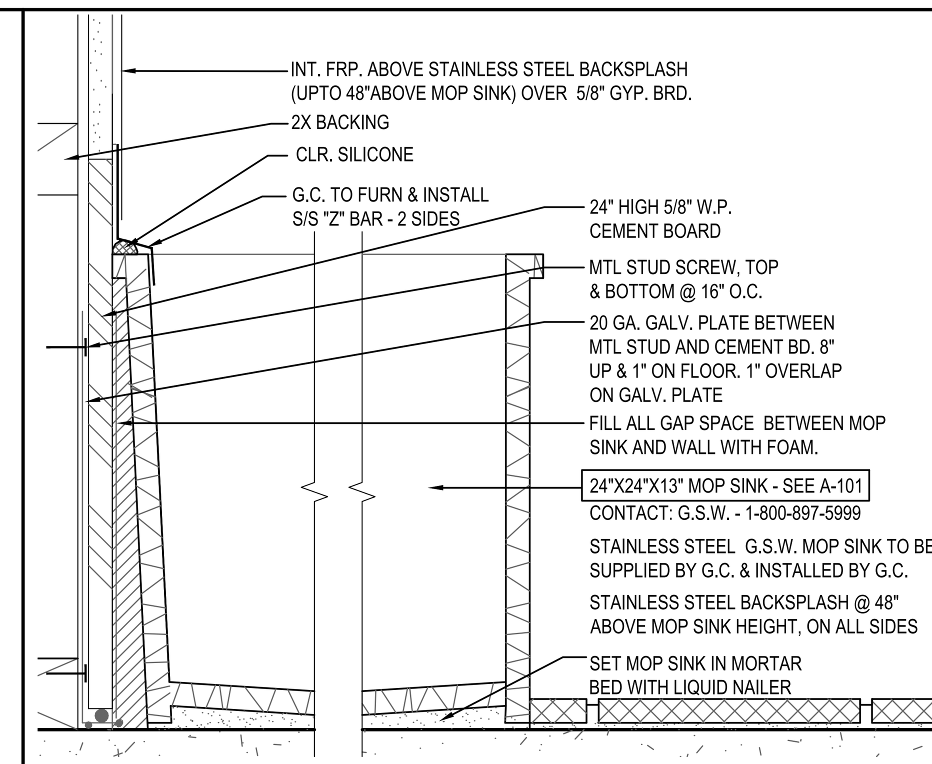
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-201

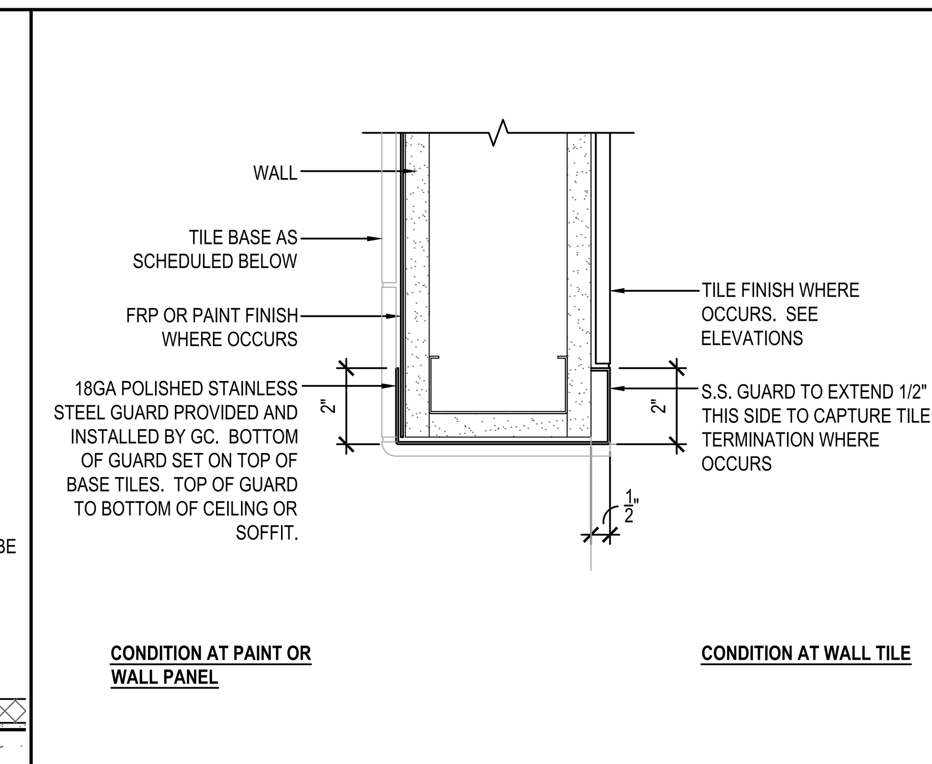
INTERIOR ELEVATIONS



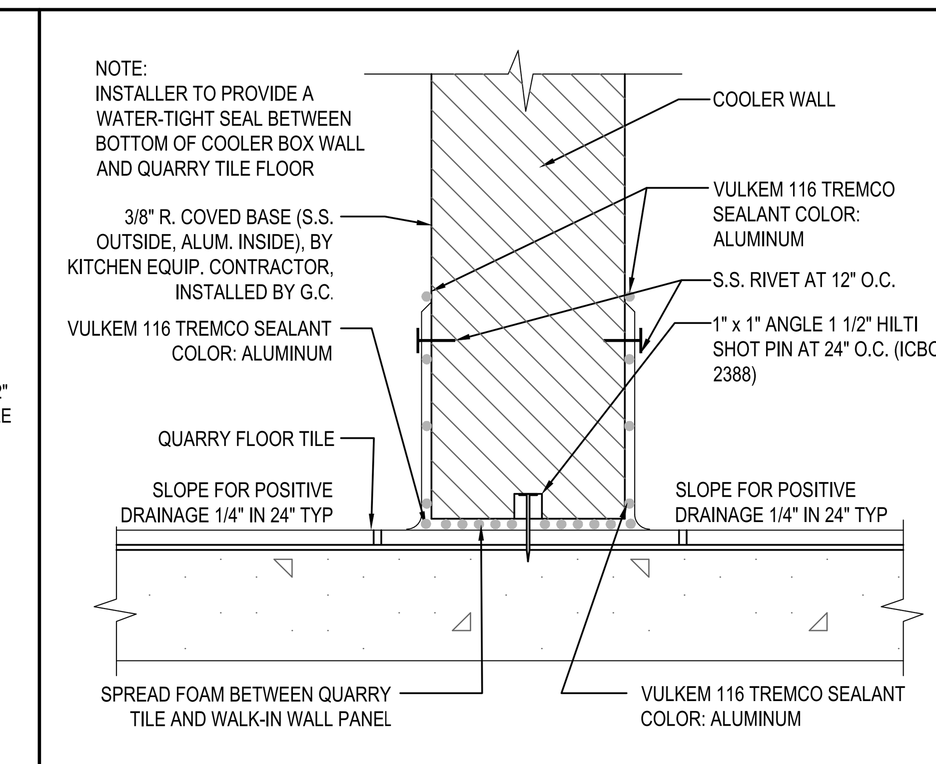
STAINLESS STEEL OUTLET PANEL 13
NTS A-400



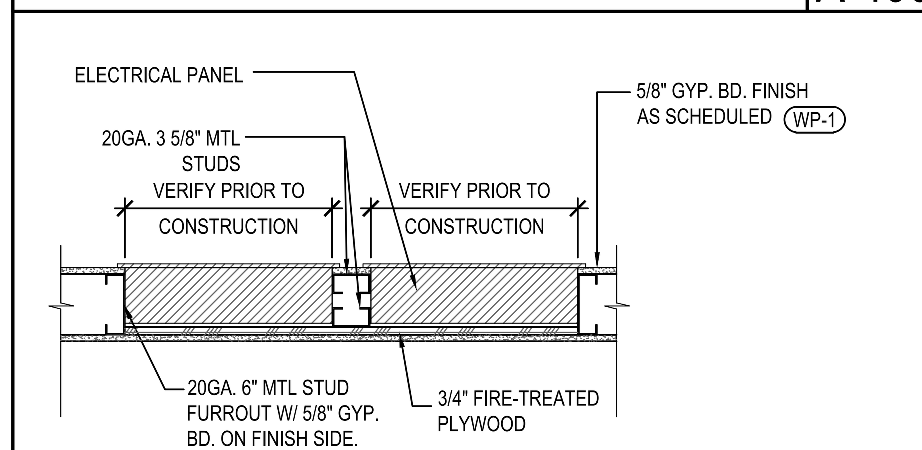
MOP SINK DETAIL 12
NTS A-400



CORNER GUARD DETAIL 8
NTS A-400



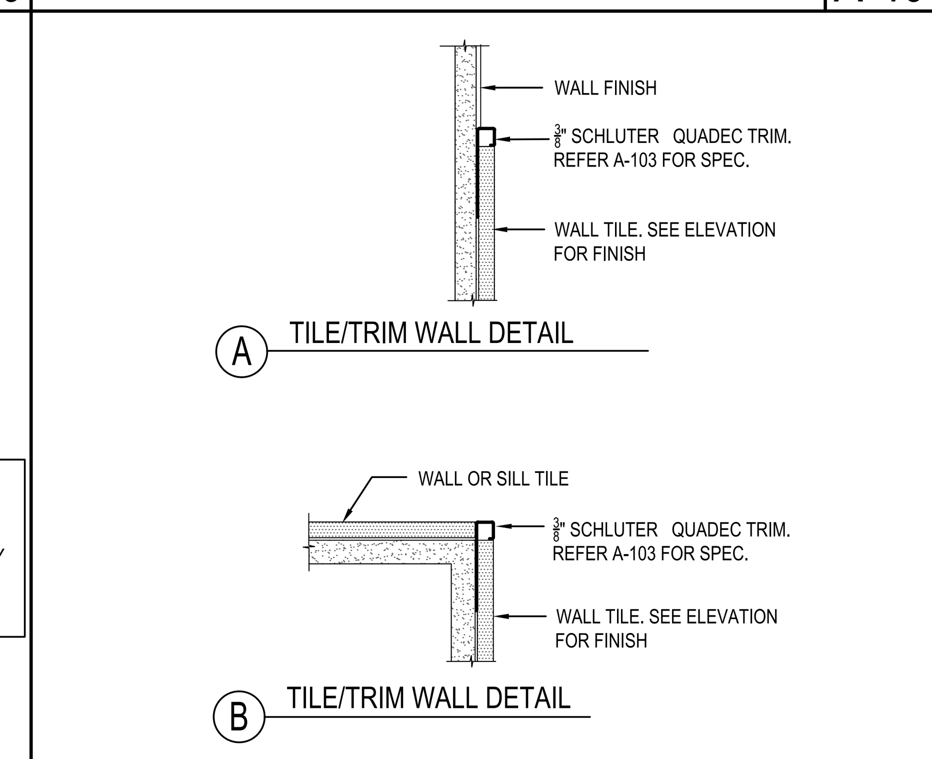
WALK-IN COOLER BASE 4
NTS A-400



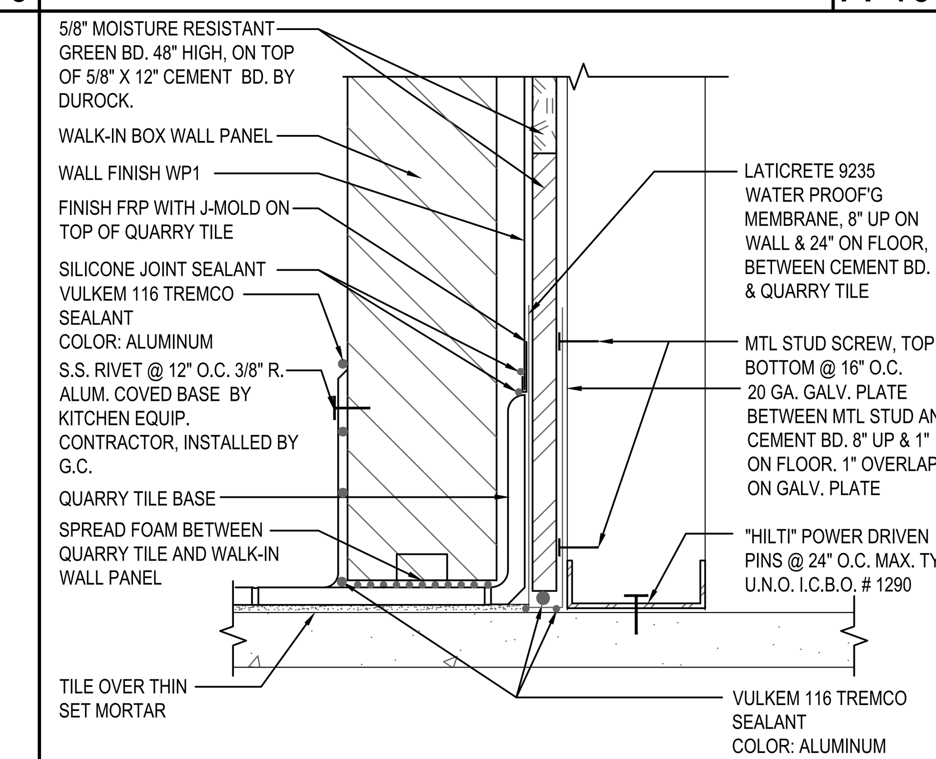
NOTE:
VERIFY ALL WALL PLACEMENT DIMENSIONS W/ ELECTRICAL PANEL SIZE, SPACING & MOUNTING HEIGHT REQUIREMENTS PRIOR TO CONSTRUCTION.

RATED WALLS:
G.C. TO PROVIDE 3M PRODUCT CS-195 COMPOSITE SHEETS AND INSTALL PER MANUFACTURERS RECOMMENDATIONS OR FIRE BLANKETS APPROVED BY LOCAL AUTHORITIES TO MAINTAIN INTEGRITY OF FIRE RATED WALL.

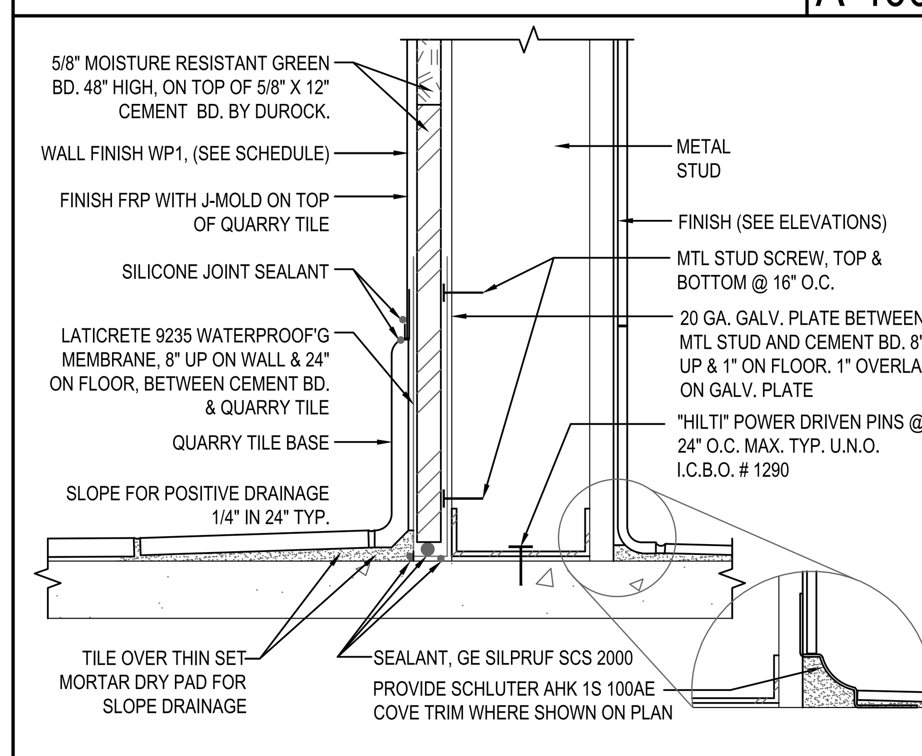
ELECTRICAL PANEL DETAIL 11
NTS A-400



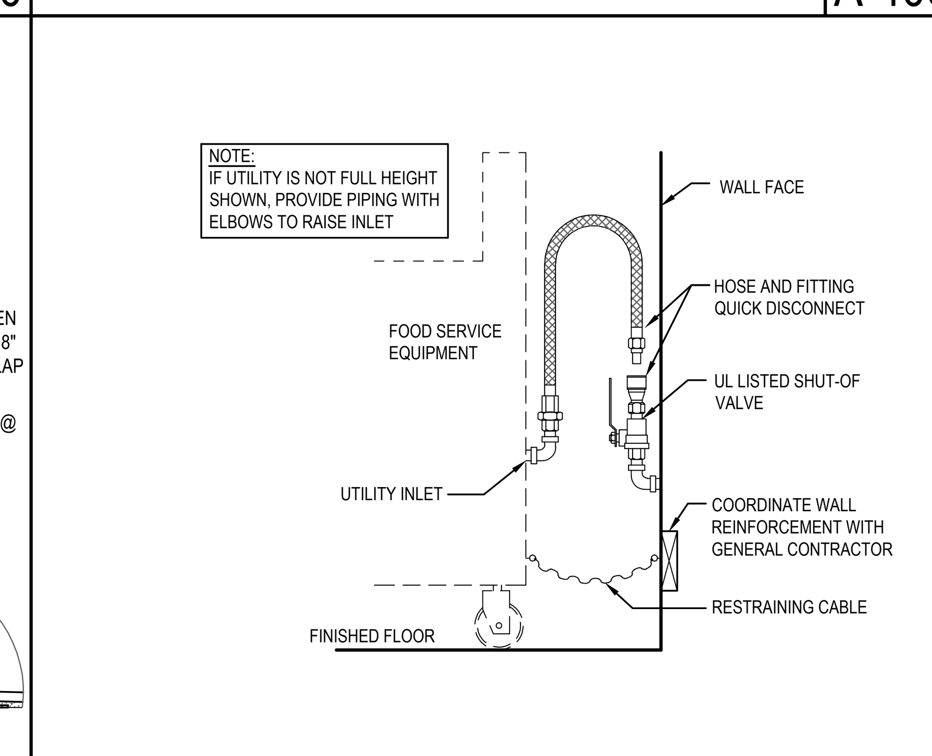
TILE TRIM DETAIL 7
NTS A-400



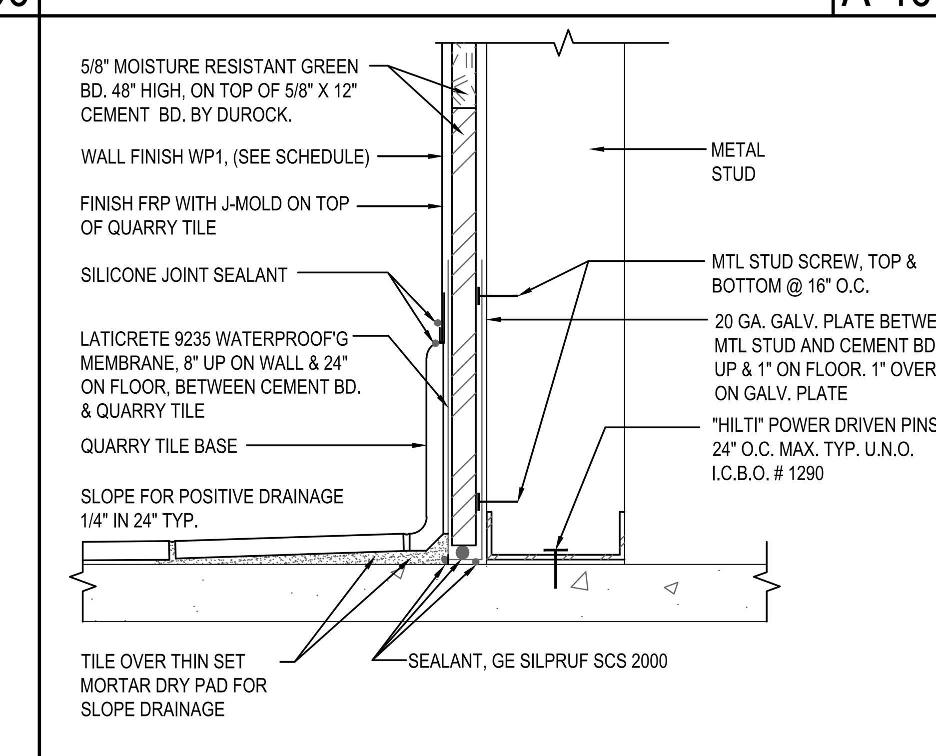
WALL BASE @ WALK-IN & STUD 3
NTS A-400



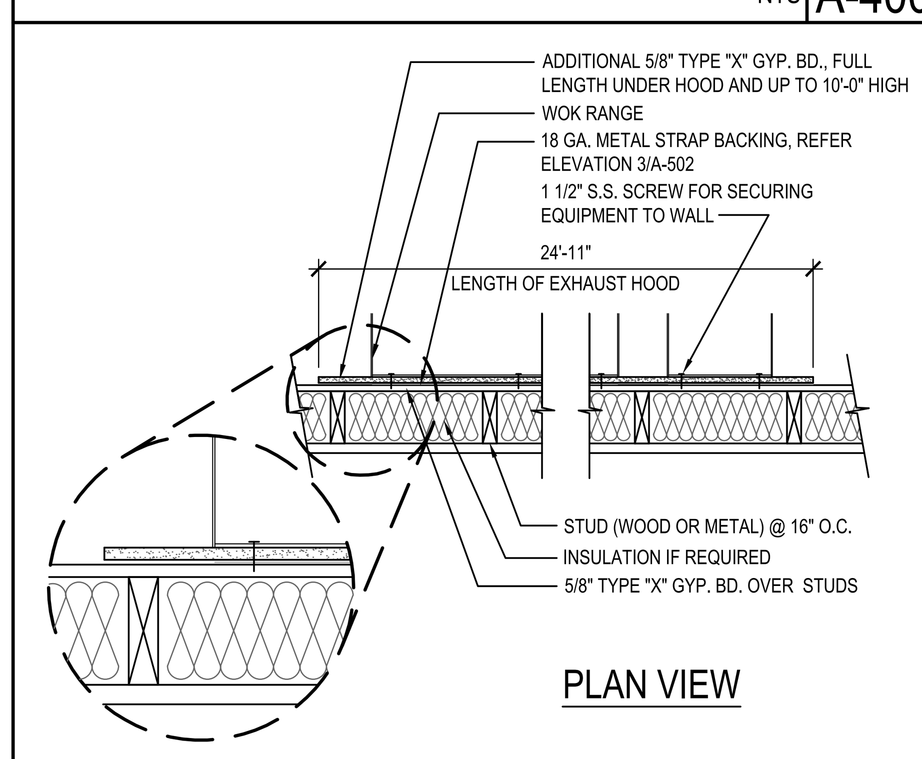
WALL BASE AT KITCHEN/ SERVICE 10
NTS A-400



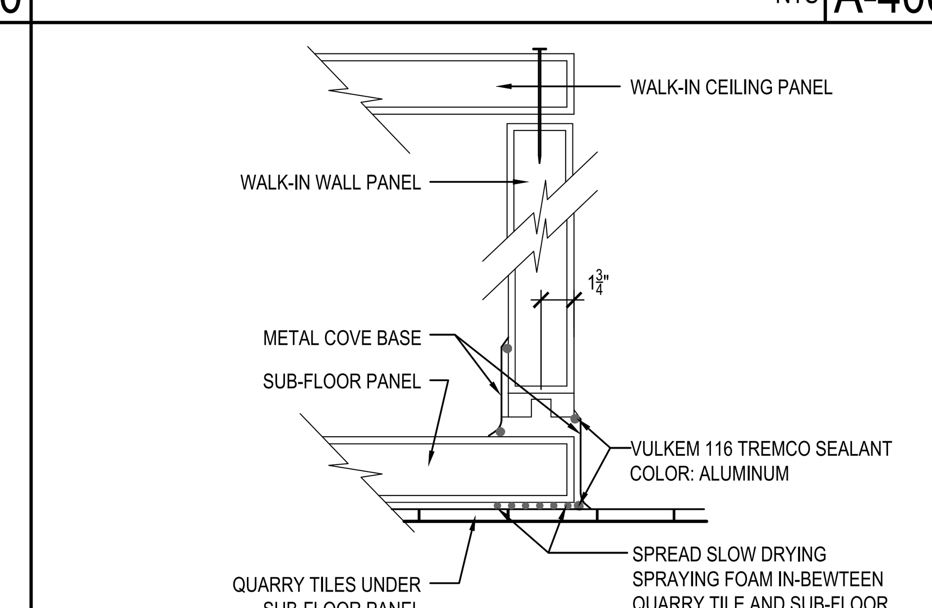
QUICK DISCONNECT DETAIL 6
NTS A-400



WALL BASE @ KITCHEN 2
NTS A-400

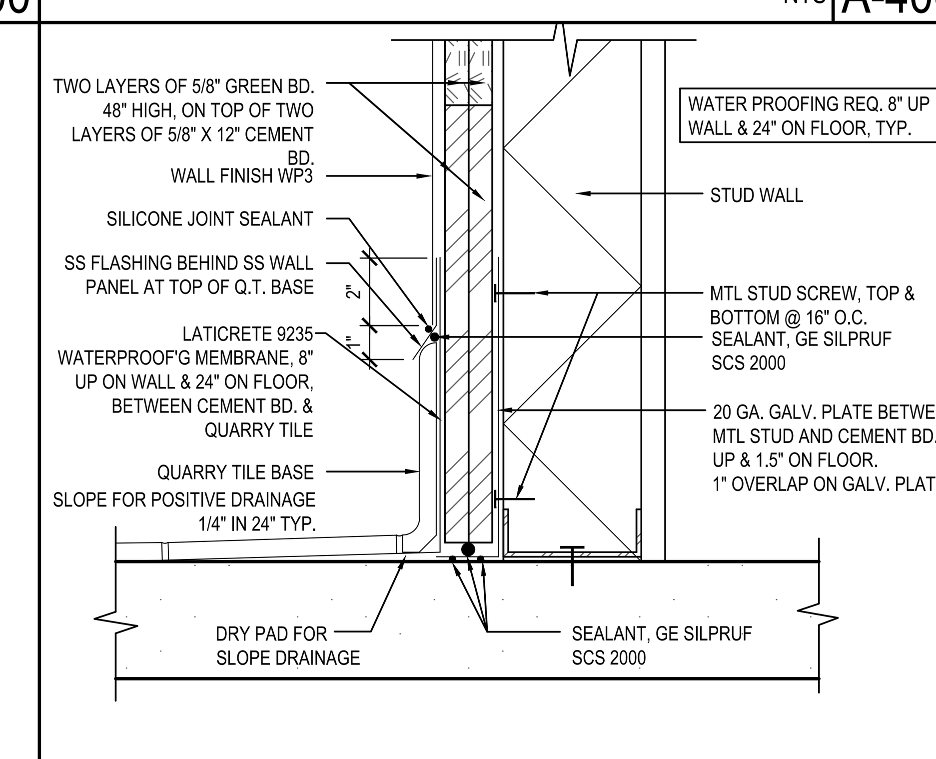


GYP. BD. DETAIL BEHIND COOKLINE 9
NTS A-400



NOTE:
PROVIDE WALK-IN FREEZER MANUFACTURER FORM PLASTIC INSULATION COMPLIANCE LABEL PER SEC.2602 UBC 97

WALK-IN FREEZER BASE 5
NTS A-400



WALL BASE @ COOKLINE 1
NTS A-400

CONSTRUCTION SET - 2017/0730

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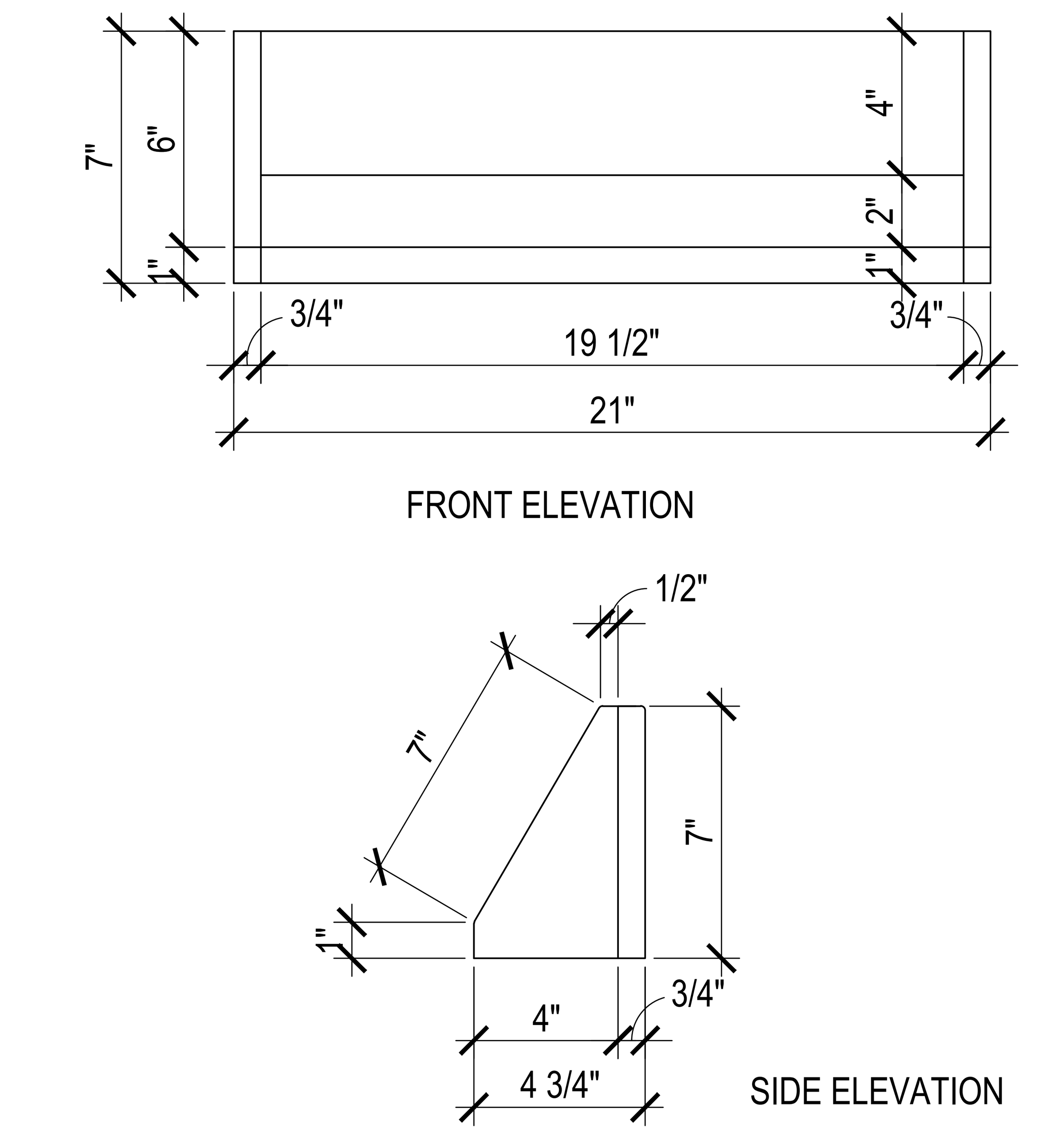
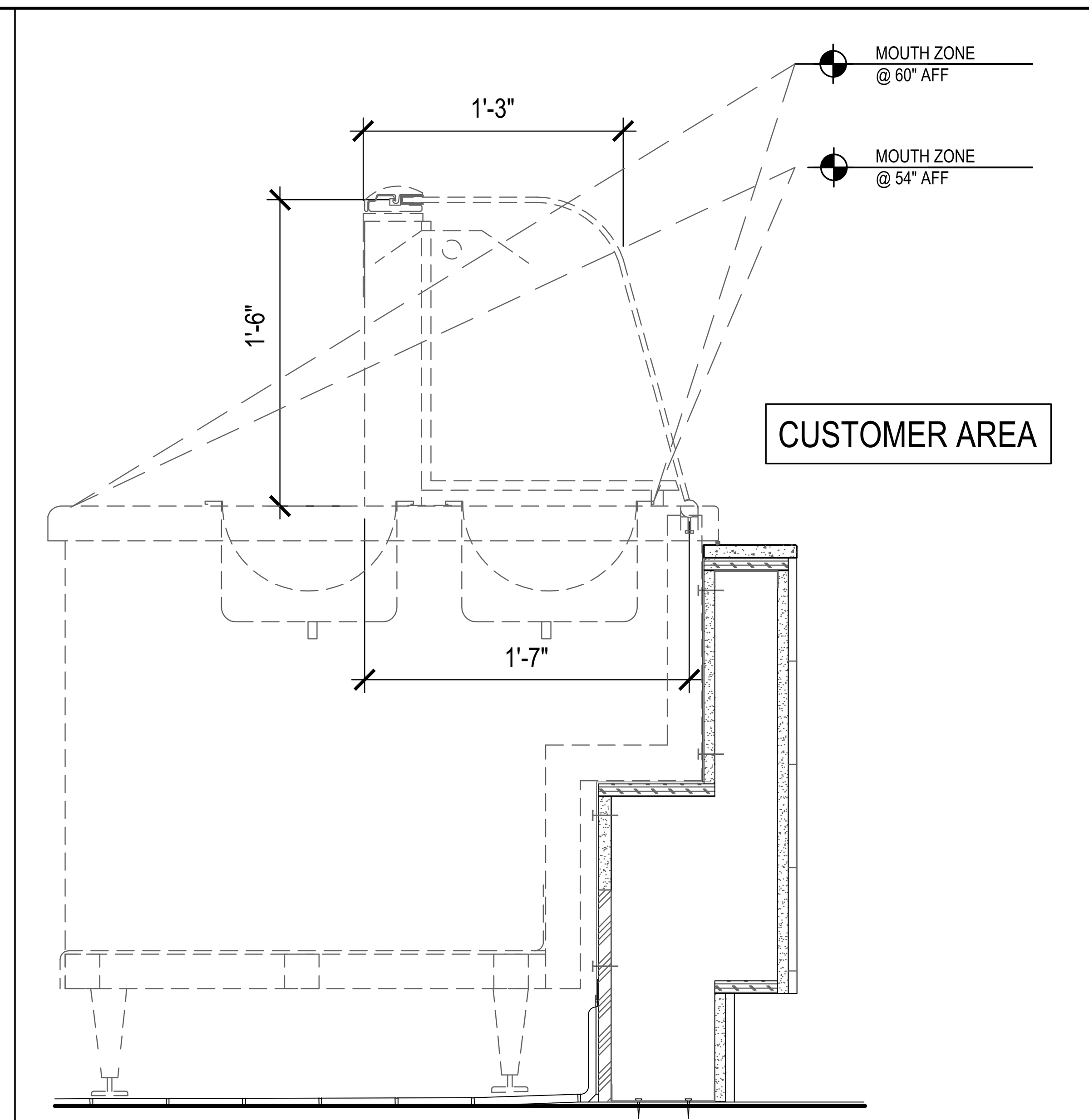
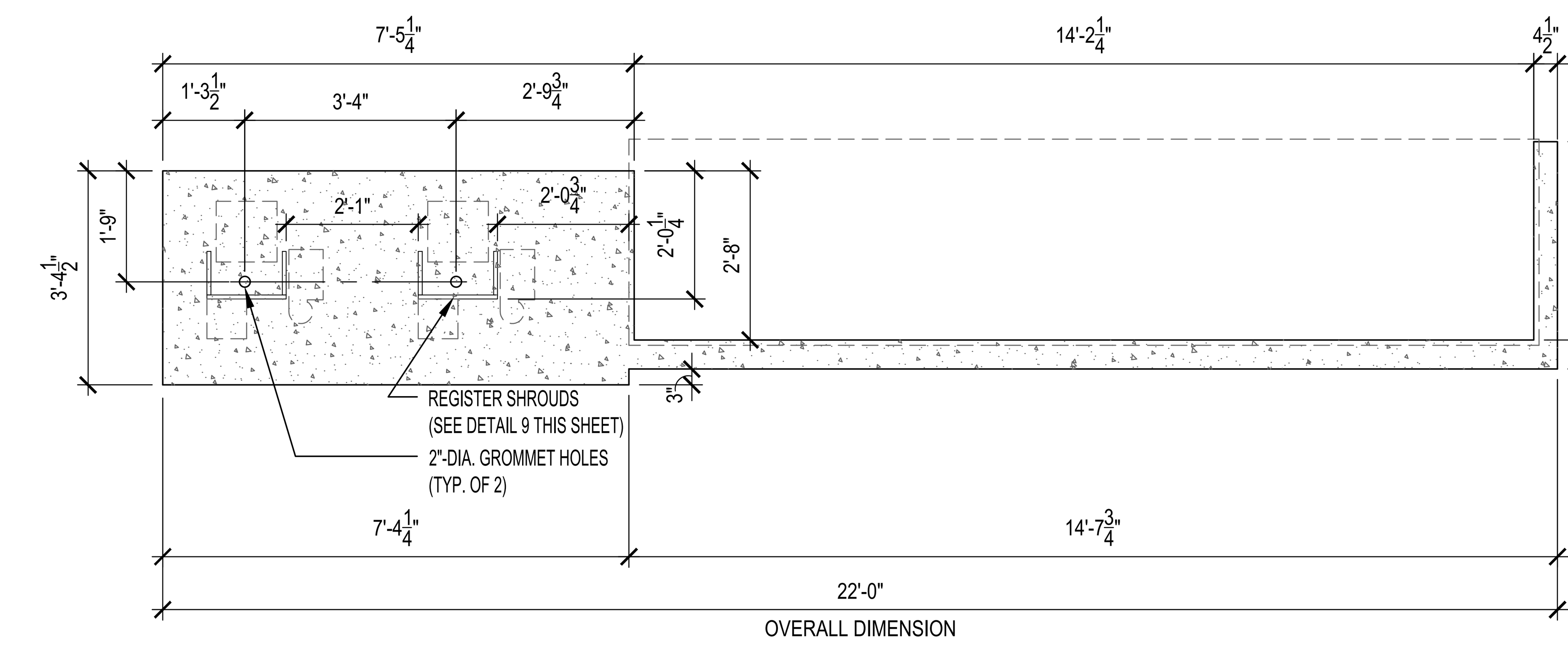


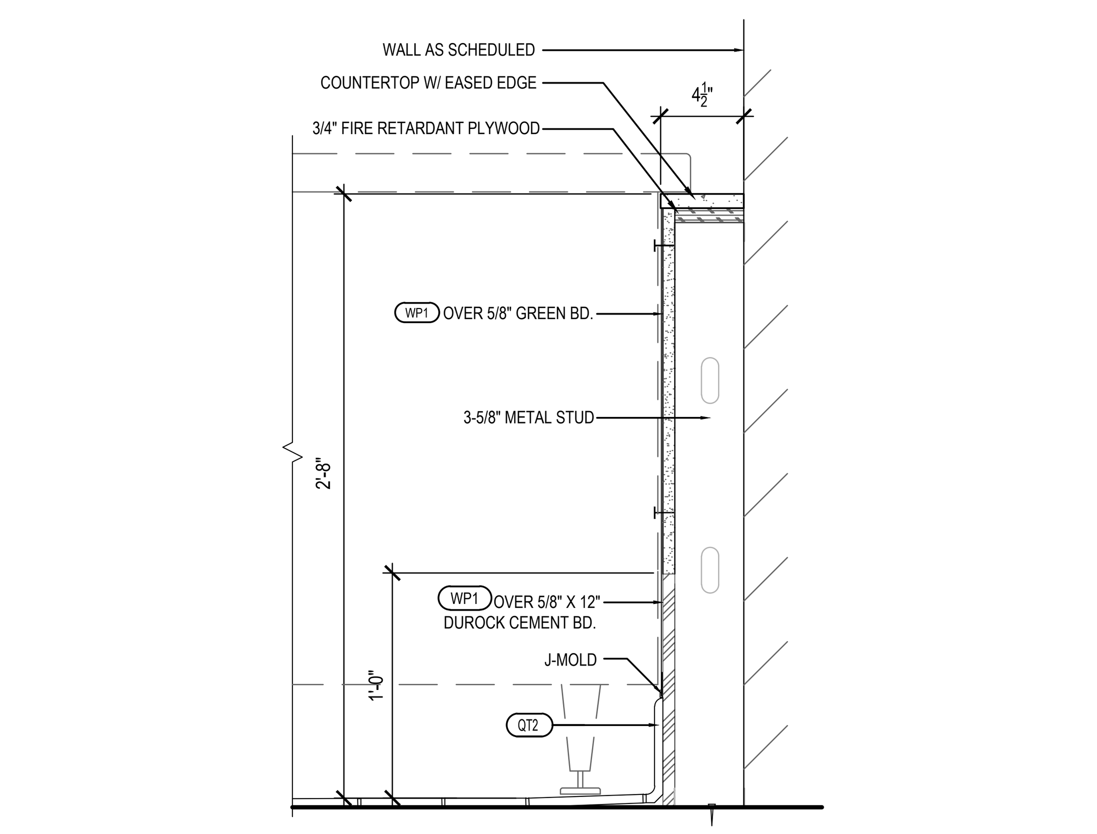
REGISTER SHROUD DETAILS 9
Scale: NTS A-401



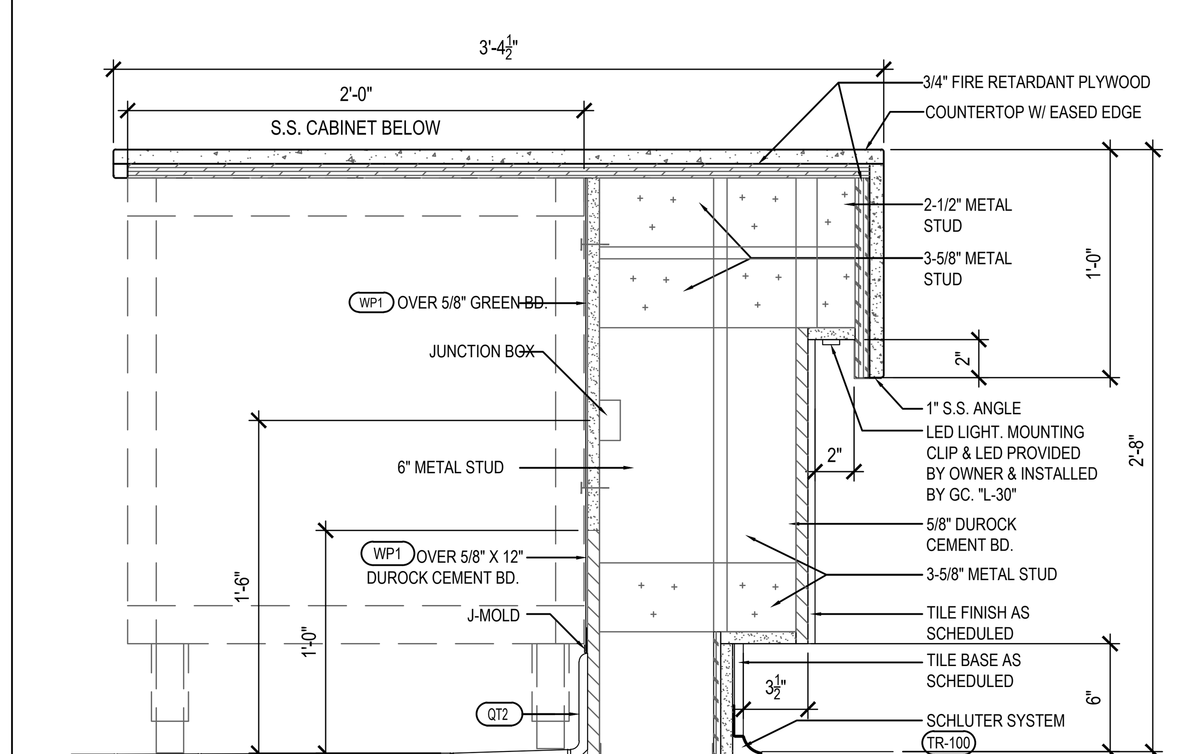
SNEEZE GUARD HEIGHTS 6
Scale: NTS A-401



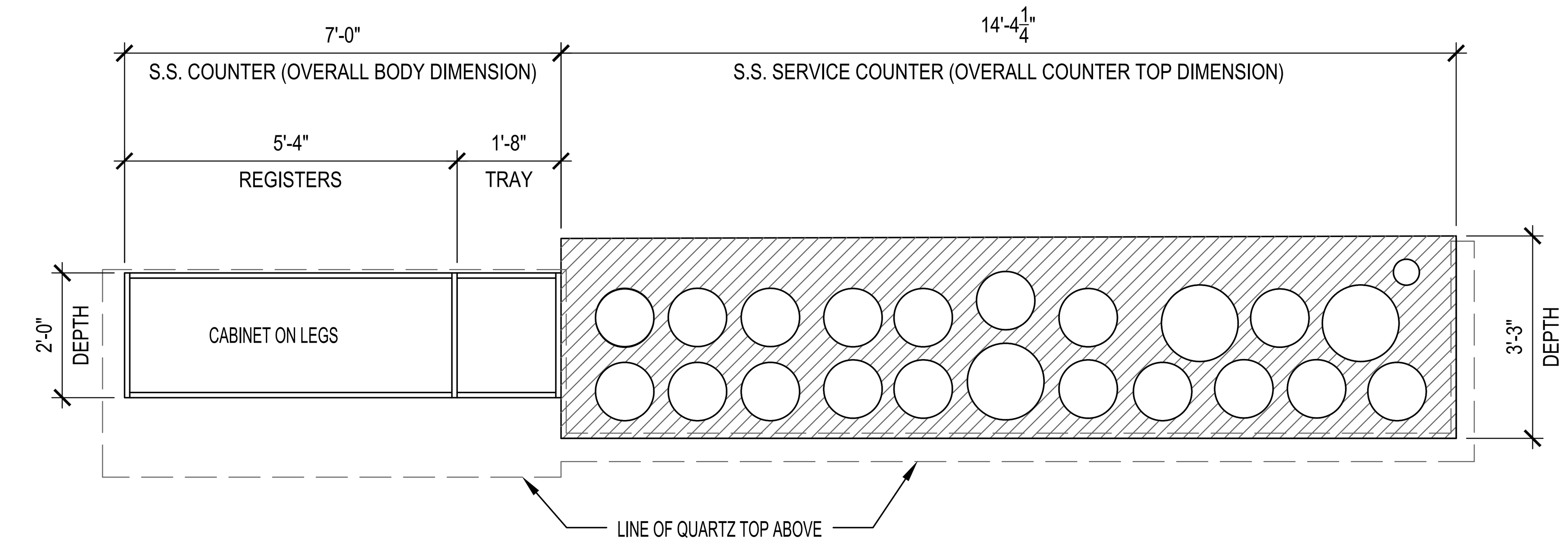
SERVICE COUNTER COUNTERTOP 3
SCALE: 1/2" - 1'-0" A-401



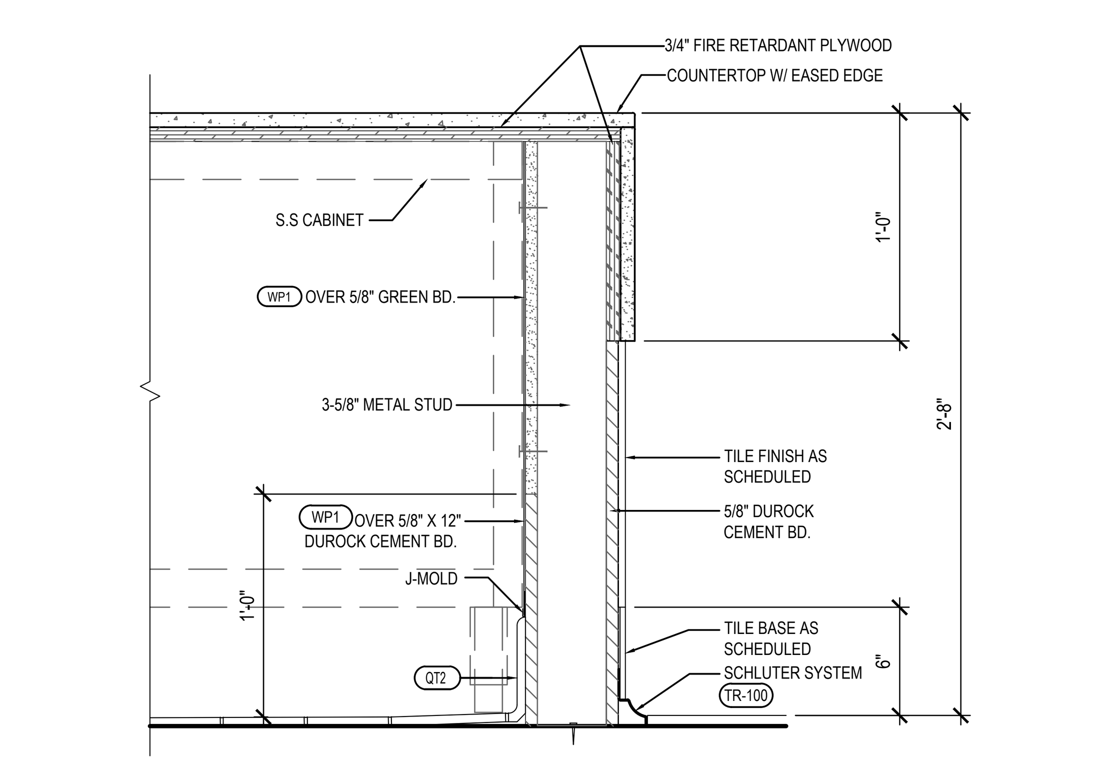
RETURN WALL DETAIL 8
NTS A-401



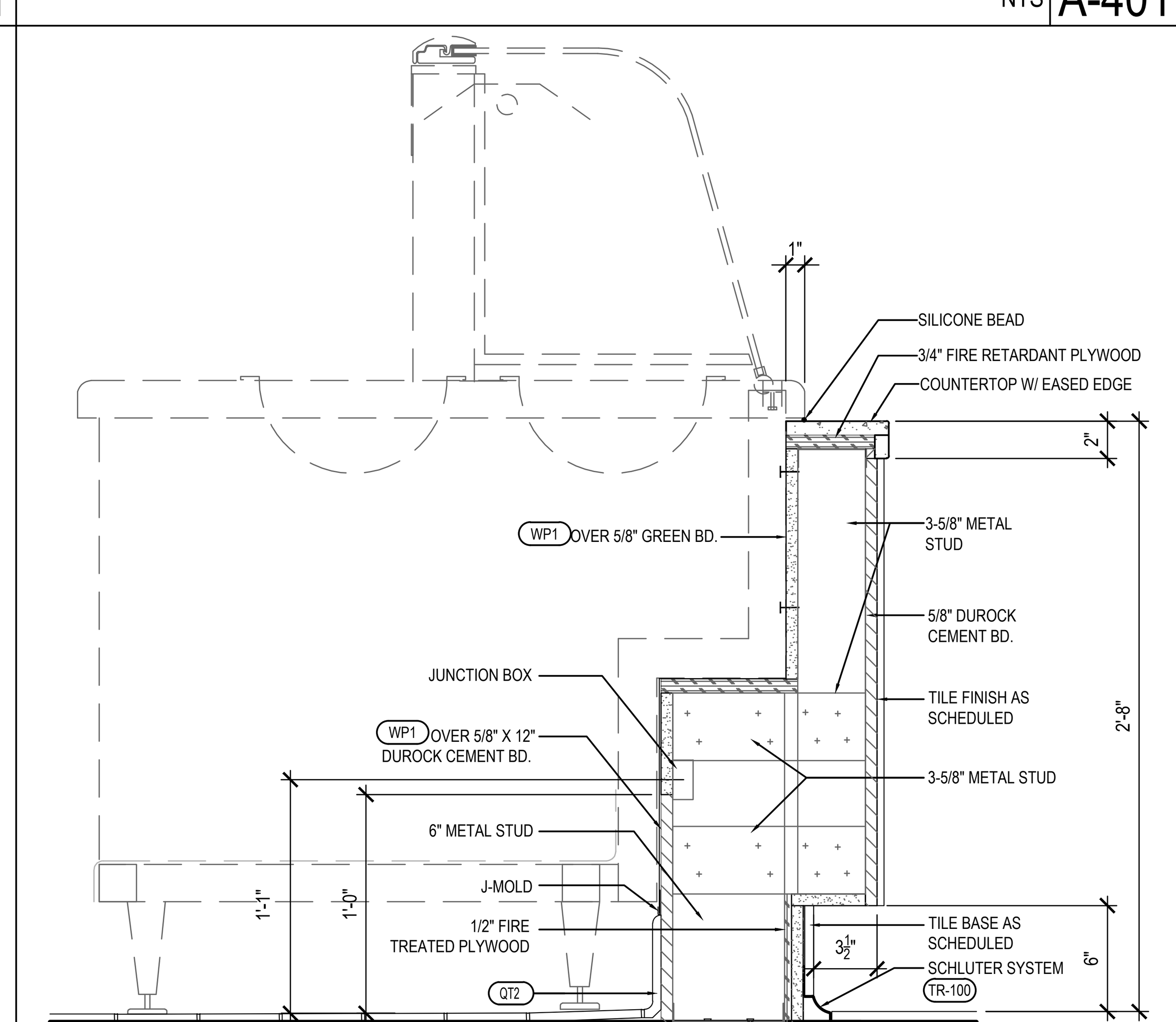
SECTION AT REGISTERS 5
NTS A-401



SERVICE COUNTER S.S. EQUIPMENT 2
SCALE: 1/2" - 1'-0" A-401



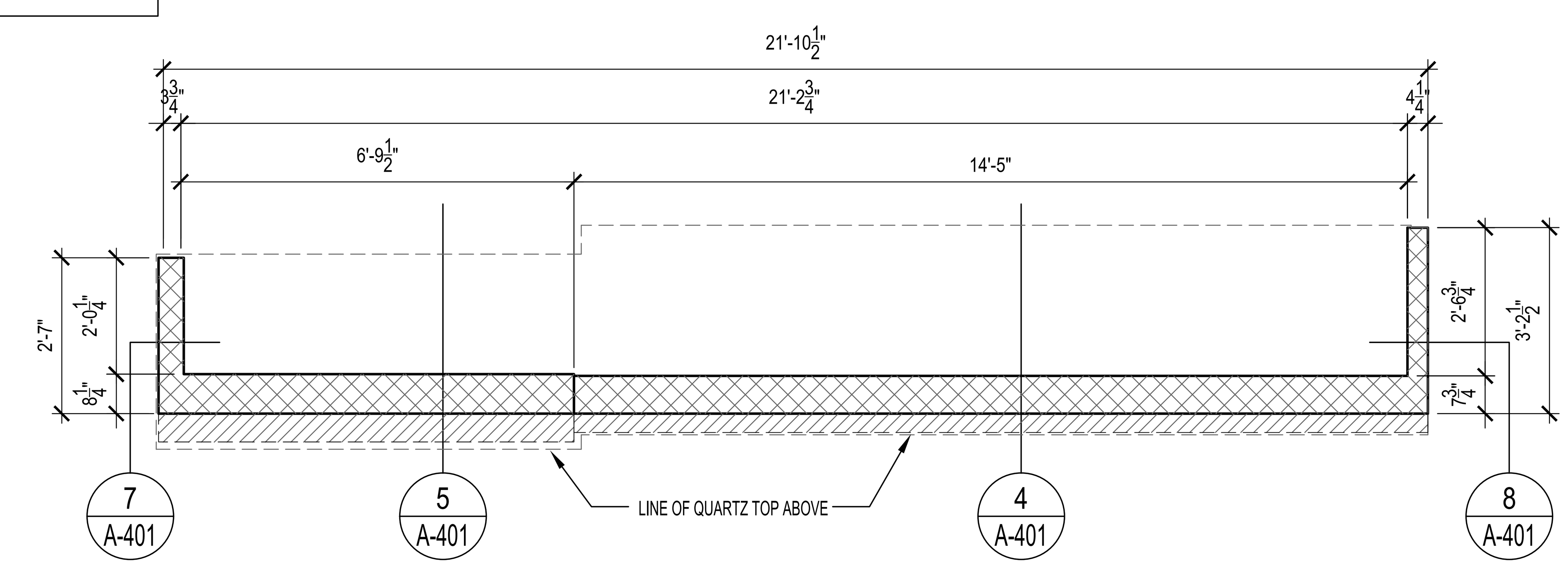
END WALL DETAIL 7
NTS A-401



SECTION AT SERVICE COUNTER 4
NTS A-401

NOTES:

1. S.S. EQUIPMENT WILL BE BY PANDA EXPRESS VENDOR.
2. LOW WALL AND COUNTERTOPS BY GC.



SERVICE COUNTER DIE WALL 1
SCALE: 1/2" - 1'-0" A-401

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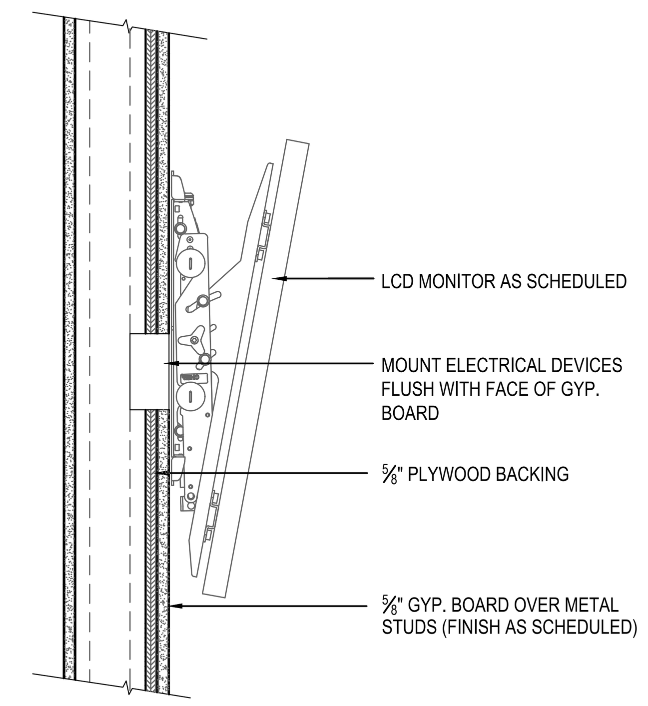
FAX: (817) 635-5699

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NO: 10225
EXPIRATION DATE: 1-19-2019

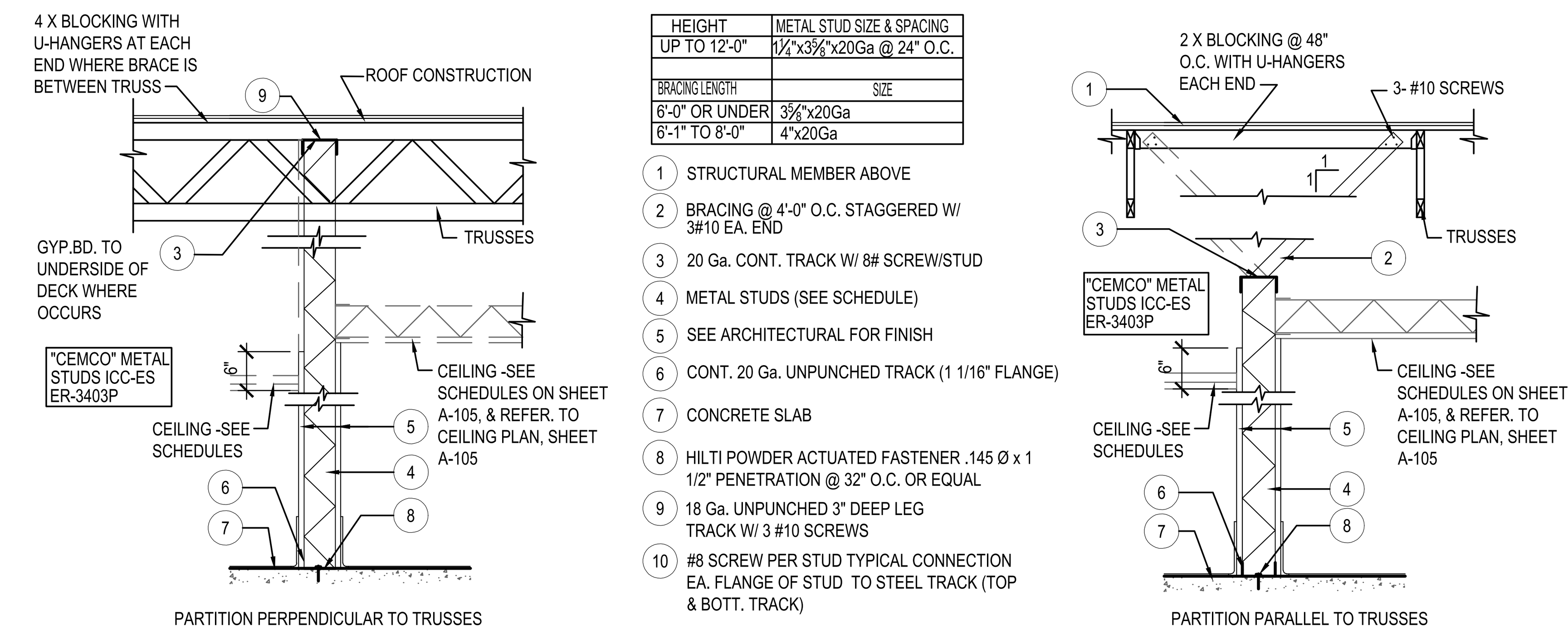
PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

A-401
ARCHITECTURAL DETAILS

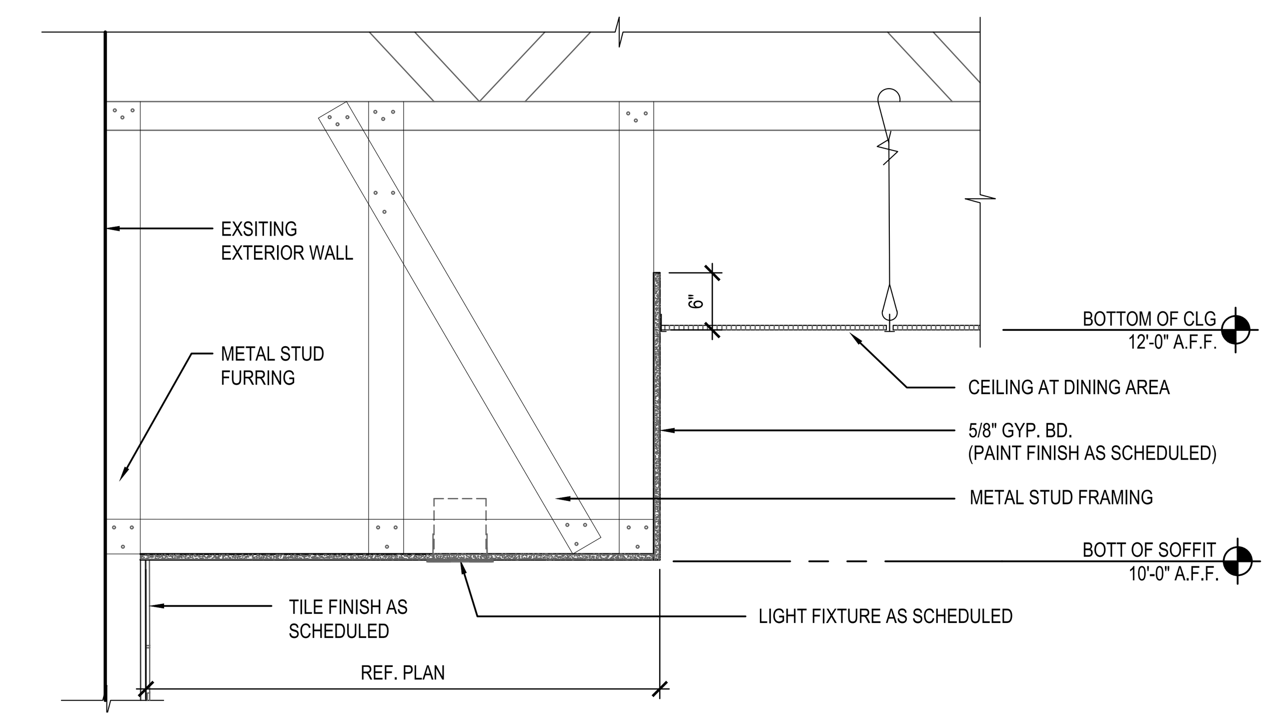
NOT USED 9
A-402



SECTION AT LCD MONITOR 6
NOT TO SCALE A-402



WALL PATTITION DETAILS 3
NOT TO SCALE A-402



SOFFIT SECTION AT DRINK STATION 2
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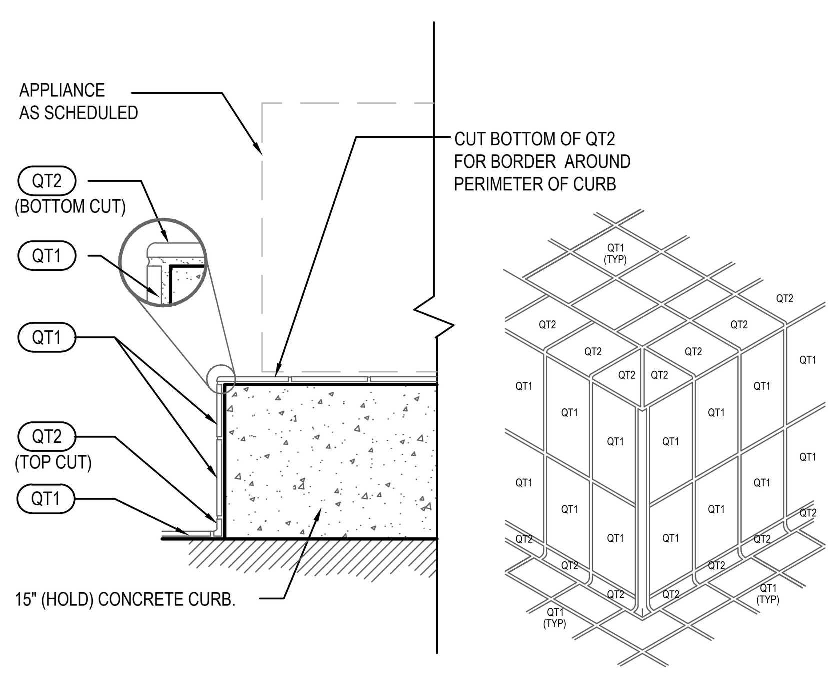
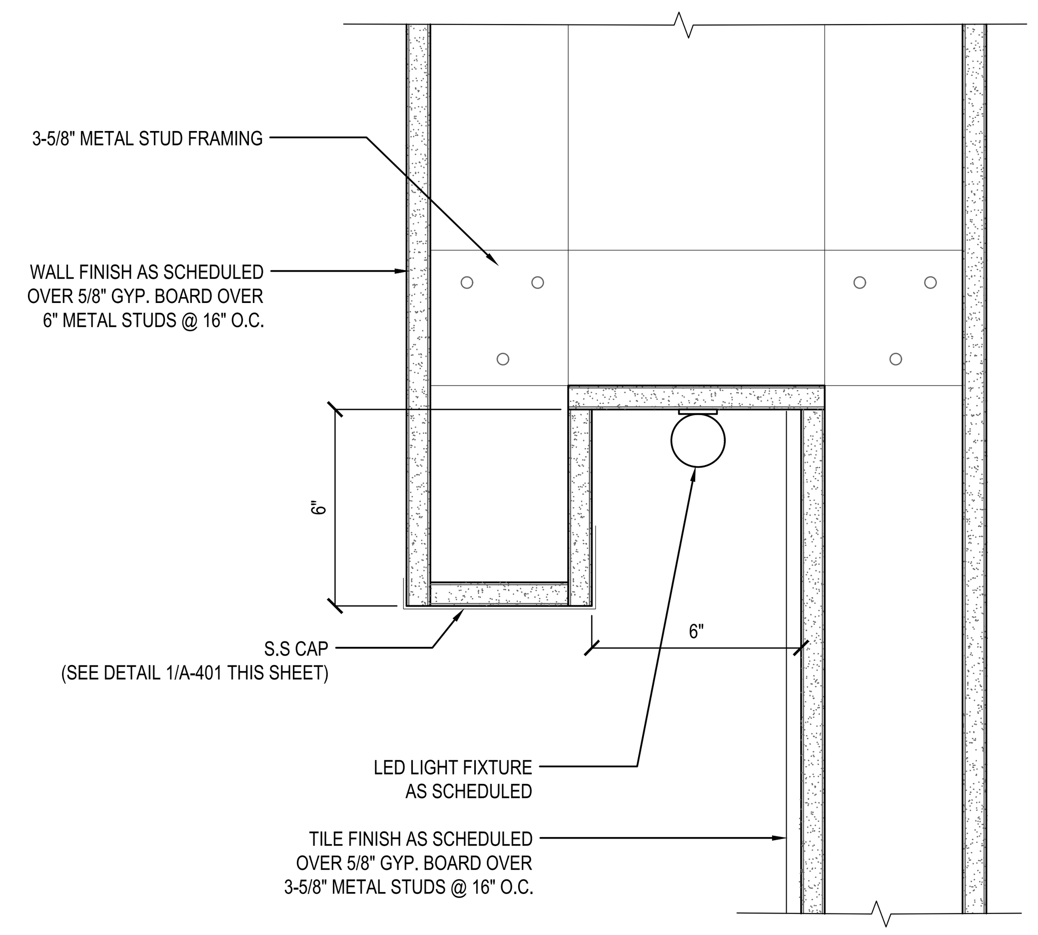


TYPICAL CURB DETAIL 8
NOT TO SCALE A-402



LED COVE LIGHT DETAIL 5
NOT TO SCALE A-402

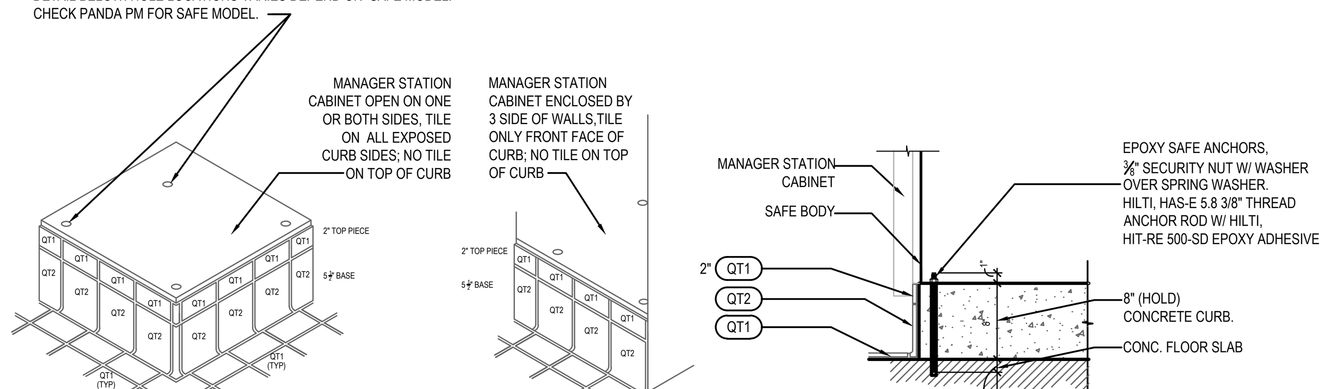
MANAGER CABINET STATION CURB SIZES REFER FLR. PLAN FOR LOCATION

1) IF CABINET IS ENCLOSED BY 3 SIDE OF WALLS:
8" H X 24" W X 48-1/2" L (CONCRETE CURB ONLY, NOT INCLUDE TILE BASE)
TILE ONLY ON FRONT FACE (EXPOSED CURB). THIS APPLY TO PROTOTYPE BUILDING LAYOUTS.

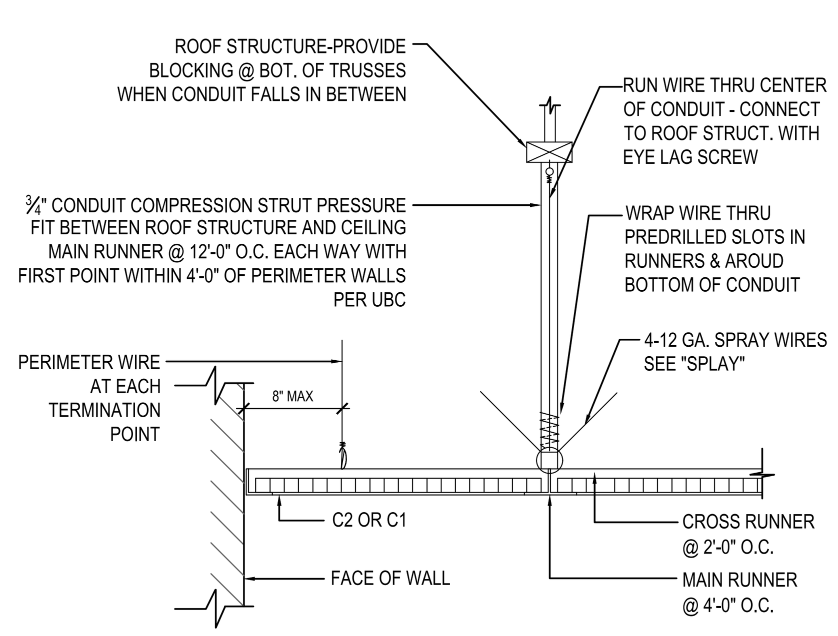
2) IF CABINET ENCLOSED BY ONLY (1) ONE WALL:
8" H X 24" W X 47" L (CONCRETE CURB ONLY, NOT INCLUDE TILE BASE)
TILE FRONT AND (1) SIDE FACE (EXPOSED CURB)

3) IF CABINET OPEN WITH NO WALLS:
8" H X 24" W X 46" L (CONCRETE CURB ONLY, NOT INCLUDE TILE BASE)
TILE ALL 3 SIDES OF THE CURB

DRILL 1/2" HOLES THRU CURB INTO FLOOR SLAB. REFER SECTION DETAIL BELOW. HOLE LOCATIONS VARIES DEPEND ON SAFE MODEL. CHECK PANDA PM FOR SAFE MODEL.

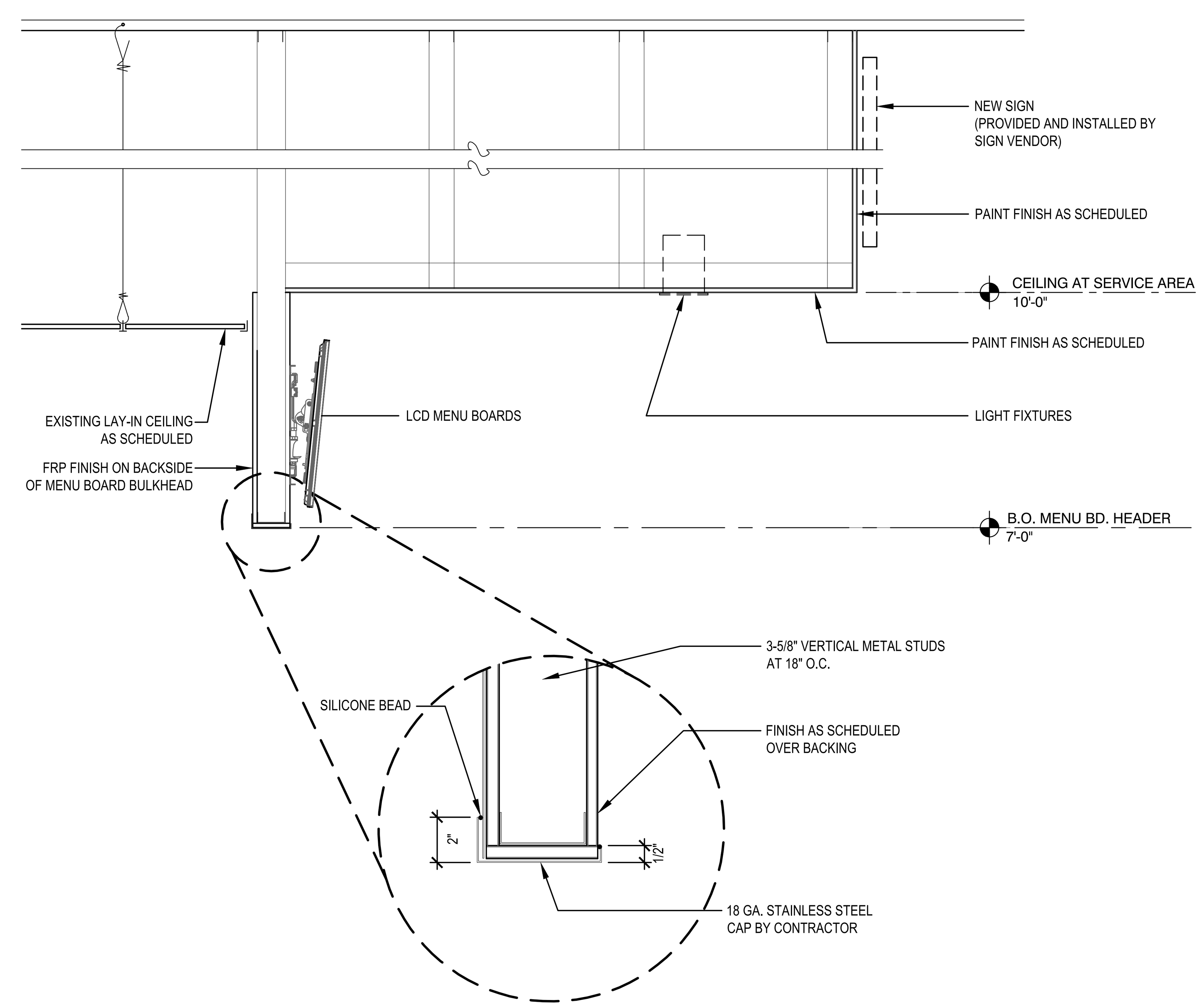


MAMANGER STATION CURB DETAIL 7
NOT TO SCALE A-402



NOTE: THIS DETAIL IS APPLICABLE IN SEISMIC ZONES OR WHERE REQUIRED BY LOCAL CODE.

CEILING DETAIL 4
NOT TO SCALE A-402



CEILING SECTION AT SERVICE AREA 1
NOT TO SCALE A-402

CONSTRUCTION SET - 2017/0730

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

1	ARCHITECTURAL DETAILS	07/30/2017

ISSUE DATE:

1	35% SUBMITTAL	12/21/2016
2	100% SUBMITTAL	05/01/2017
3	BID SET	07/03/2017
4	CONSTRUCTION SET	07/30/2017

CHECKED BY: CF
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

CM
CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
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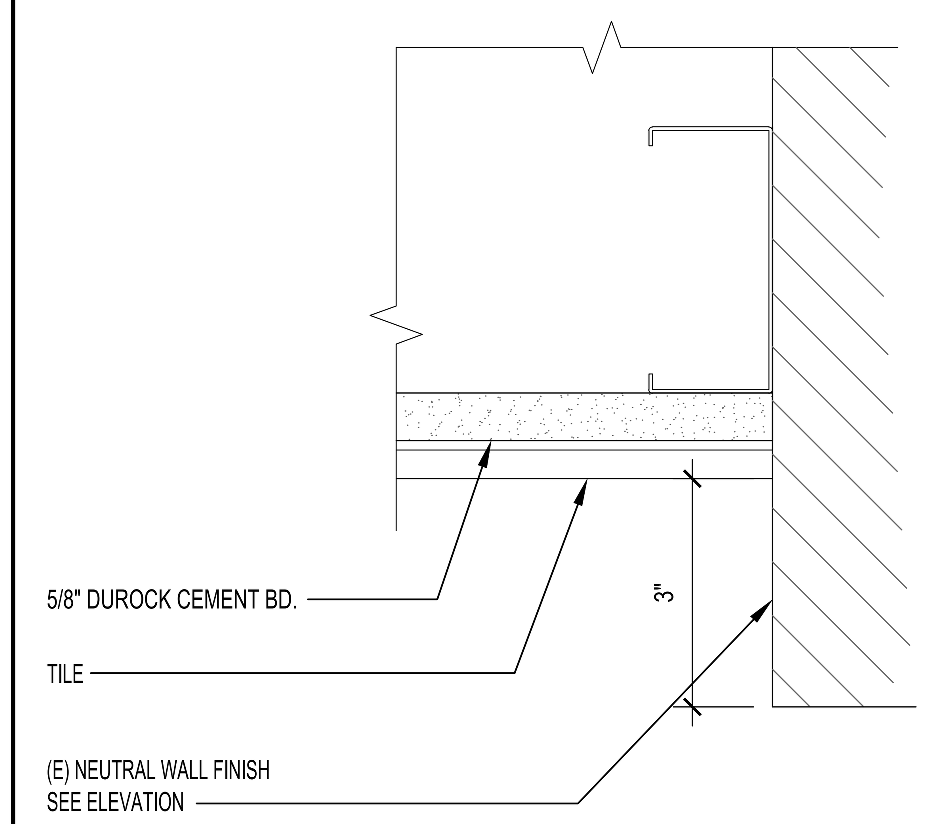
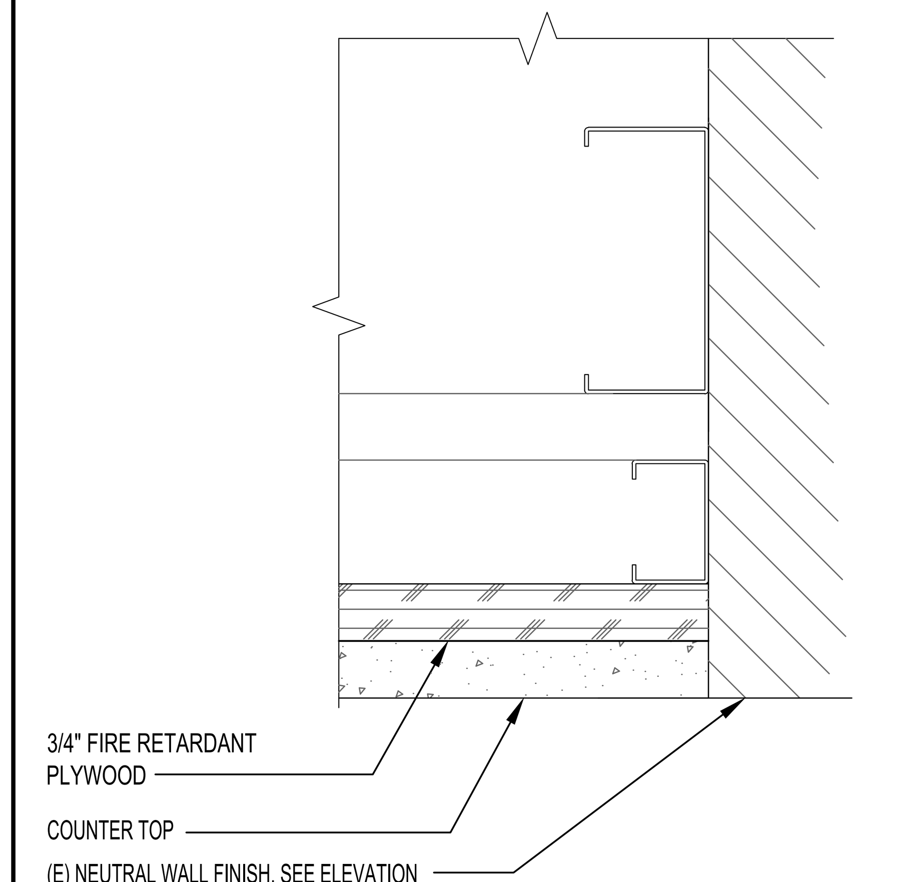
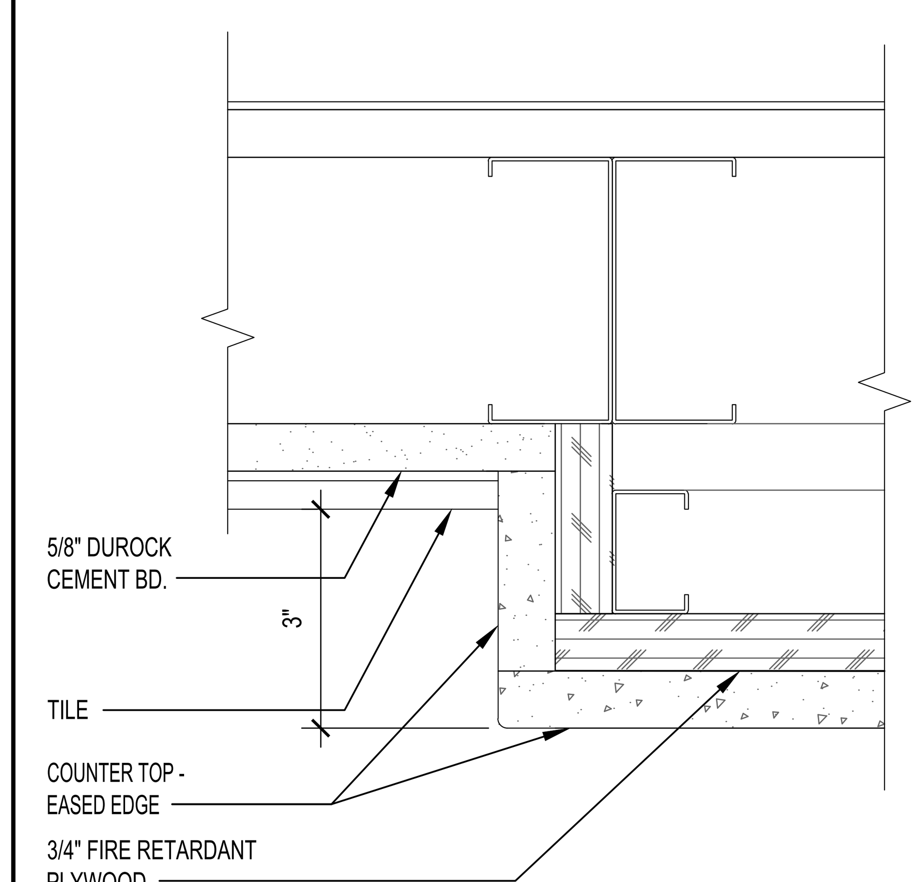


C SECTION

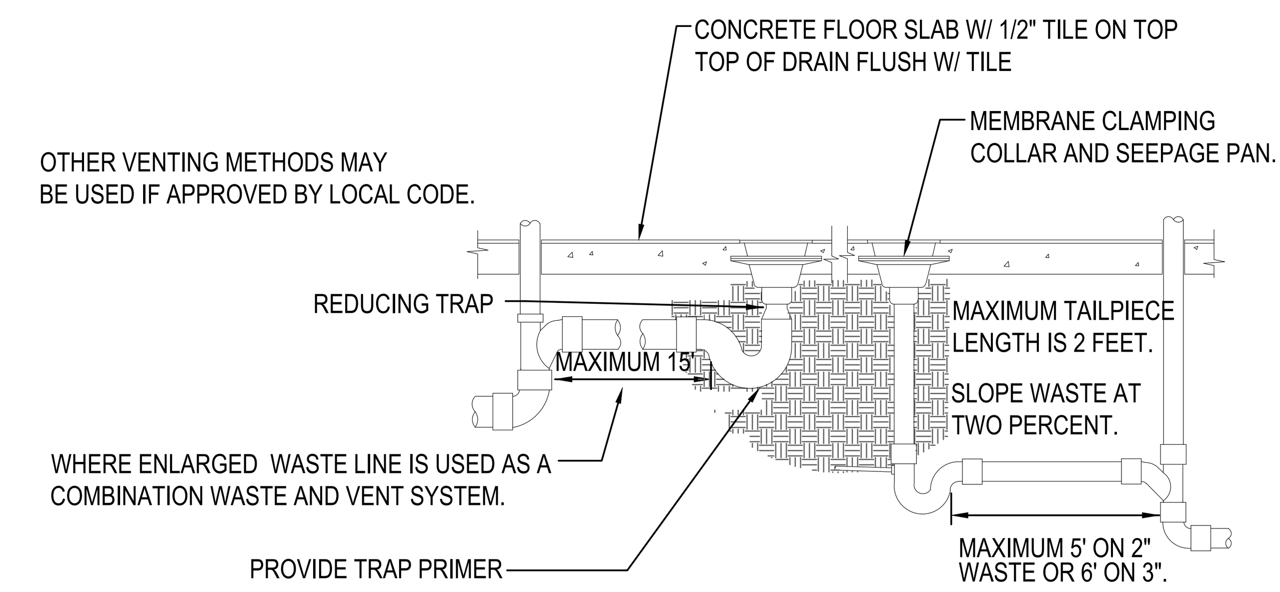


B SECTION



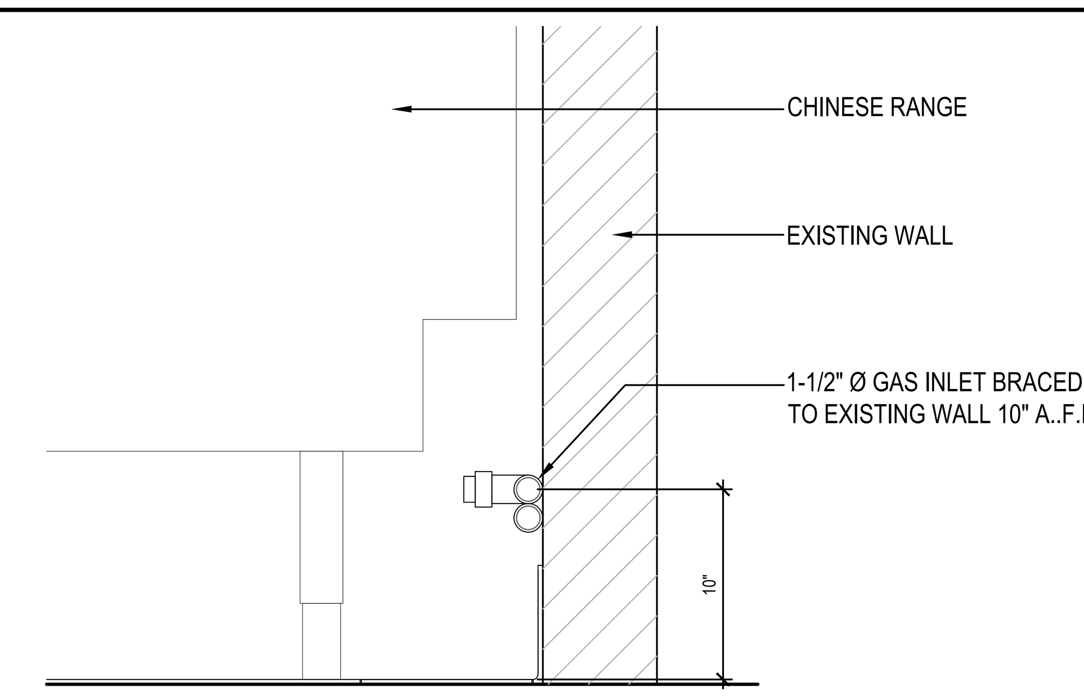
A SECTION

COUNTERTOP TRIM DETAIL	5
Scale: Not To Scale	A-403

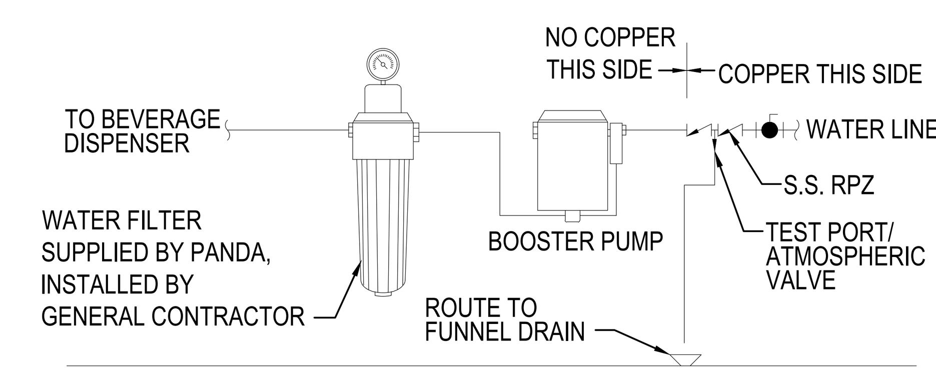


LOCATE FLOOR DRAIN/SINK WHERE SHOWN ON DIMENSIONED ARCHITEC- TURAL PLAN. IF FLOOR STRUCTURE INTERFERES WITH FLOOR SINK, MOVE SIDEWAYS IF POSSIBLE, OTHERWISE MOVE BACK. ALWAYS LOCATE WHERE EASILY ACCESSIBLE, BUT NOT IN FOOT TRAFFIC. IF SITUATION IS FLOOR SLAB ON GRADE, PROVIDE BACKFILL PER SPECIFICATIONS. IF CONCRETE FLOOR IS NOT EXISTING, SET DRAIN IN PLACE AND POUR AROUND IT, OR BLOCK OUT AND POUR IN LATER. IF CONCRETE FLOOR IS EXISTING, SAW CUT OR CORE DRILL IT. SET DRAIN BODY IN PLACE AND POUR AROUND IT. THE TOP OF THE FLOOR SINK / DRAIN SHOULD BE SET AT THE SAME ELEVATION AS THE SLAB AND THEN DISHED OUT 1/2 AT THE DRAIN SLOPING TO NOTHING AT THE 2' RADIUS POINT. IF SITUATION IS FLOOR NOT ON GRADE, REFER TO "FLOOR PENETRATION" DETAIL FOR VENTS. PROVIDE TRAP PRIMER FOR FLOOR DRAINS IN RESTROOMS.

FLOOR SINK/ DRAIN	4
Scale: Not To Scale	A-403



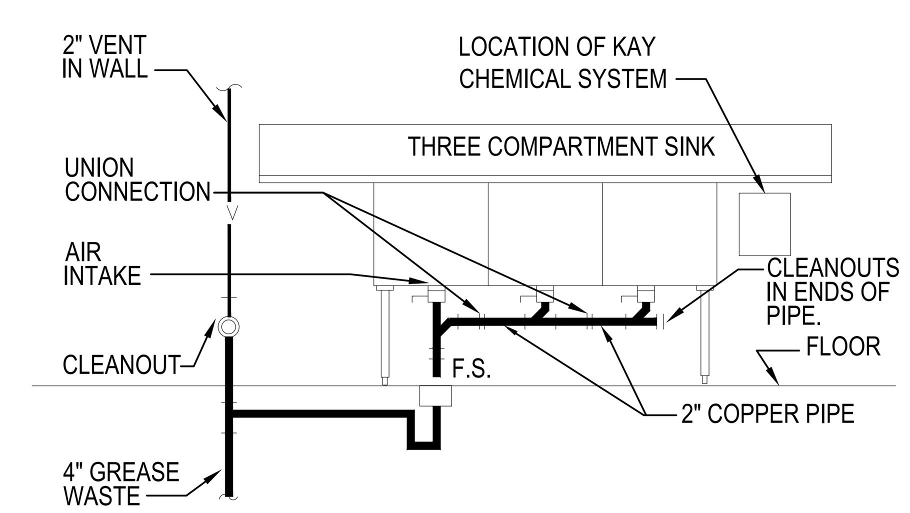
GAS CONNECTION DETAIL	3
Scale: Not To Scale	A-406



NOTE:
CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION

NOTE:
ALL PIPING BY SOFT DRINK VENDOR

BAG-IN-BOX	2
Scale: Not To Scale	A-403



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. COPPER PIPE, FITTINGS AND CONNECTORS ALL AROUND SINK AND TRAP. CONNECT TRAP FROM CENTER COMPARTMENT.

UTILITY SINK	1
Scale: Not To Scale	A-403

CONSTRUCTION SET - 2017/0730

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A-403
ARCHITECTURAL DETAILS

GENERAL PLUMBING NOTES

A. FOOD SERVICE EQUIPMENT: REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT FOOD SERVICE ITEMS FURNISHED AND WORK PERFORMED BY OTHERS. VERIFY ROUGH-IN REQUIREMENTS WITH EQUIPMENT FURNISHED.
B. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS.WHEREVER POSSIBLE, INSTALL ALL PIPING CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
C. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO OWNER.
D. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT: TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
E. VERIFY LOCATIONS: EXISTING PIPING, POC SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATION ON JOB SITE BEFORE START WORKING.
F. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
G. RESTROOM TRAP PRIMERS: SOUIX CHIEF "TRAP EASE" MODEL 200-090 TRAP PRIMER TAILPIECE. PROVIDE A CONTINUOUS LENGTH OF ½" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. SEE DETAIL #9 ON SHEET P-500.
H. WATER CONSERVATION: CONTRACTOR SHALL PROVIDE WATER FLOW LIMITING FEATURES ON FIXTURES IF/AS REQUIRED BY LOCAL AUTHORITIES.
I. COLD WATER: CONNECT TO DOMESTIC COLD WATER VALVED STUB. EXTEND COLD WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS, TO SERVE FIXTURES AND EQUIPMENT.
J. HOT WATER: PROVIDE COMMERCIAL TYPE WATER HEATER, DESIGN PER PLAN. RUN HOT WATER PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT.
K. SANITARY: CONNECT TO SANITARY WASTE LINE.
L. BRANCHES: PROVIDE HOT AND/OR COLD WATER PIPES DOWN IN PARTITION TO SERVE VARIOUS EQUIPMENT PER "KITCHEN EQUIPMENT SCHEDULE".
M. SODA CONDUIT: PROVIDE 4" CONDUIT BELOW FLOOR FROM SODA STORAGE TO SODA DISPENSER.
N. CONDENSATE: PROVIDE 1" INSULTAED PRIMARY AND SECONDARY CONDENSATE DRAIN PIPES FROM FAN-COIL UNIT ABOVE CEILING TO NEAREST FLOOR SINK.
O. GAS SERVICE: PROVIDE ALL PIPES, VALVES AND CONNECTION TO GAS METER. FOR NATURAL GAS SERVICE, COORDINATE WITH GAS UTILITY COMPANY FOR METER REQUIREMENTS, PERMITS AND FEES. ROUTE PIPE AS REQUIRED, SUSPENDED FROM STRUCTURE ABOVE. USE ALL WELDED PIPE, FITTINGS, AND JOINTS IN CEILING SPACE AND IN WALL AS PER LOCAL CODE.
P. INDIRECT DRAIN: AN AIR GAP TWICE THE SIZE OF THE DRAIN LINE MUST BE PROVIDED BETWEEN THE DRAIN LINE AND THE SANITARY SEWER.
Q. LIQUID WASTE FROM ALL EQUIPMENT MUST BE DISCHARGED TO THE SANITARY SEWER.
R. FLOOR DRAIN MUST BE PLACED ADJACENT TO EQUIPMENT WHICH DISCHARGES WASTE. FLOOR DRAIN INSTALLATION MUST NOT INTERFERE WITH PROPER FLOOR MAINTENANCE.
S. EXPOSED UTILITY LINES ON FLOORS ARE PROHIBITED. UTILITY LINES MUST NOT BE UNNECESSARILY EXPOSED ON WALLS.
T. ALL WATER AND GAS CONNECTIONS TO ALL PLUMBING FIXTURES TO BE HARD PIPED. NO FLEX PIPE.
U. ALL PIPES 6" A.F.F. NO FLOOR SUPPORTS ALLOWED.

PLUMBING SPECIFICATIONS

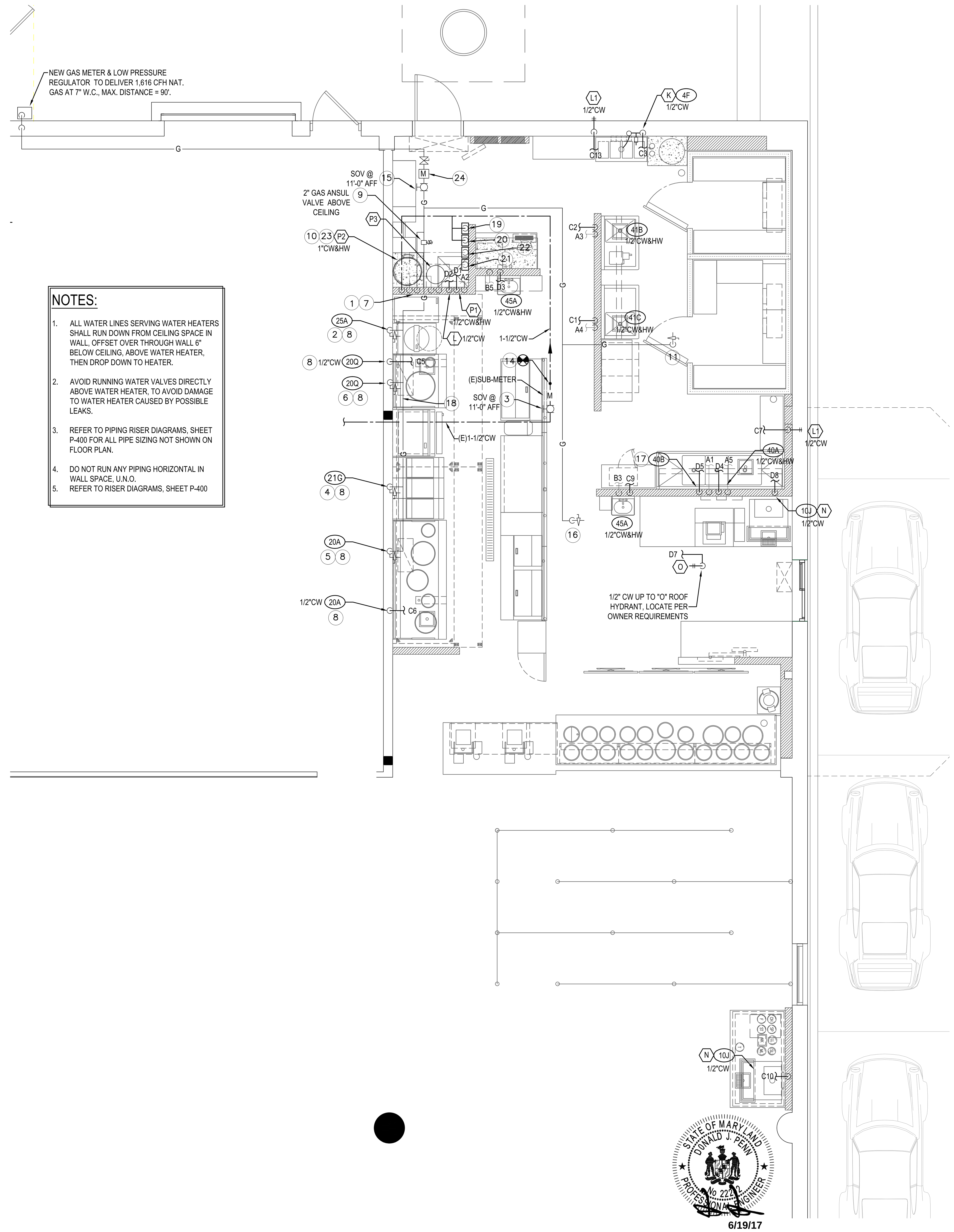
1. WORK INCLUDES CONNECTION OF PLUMBING UTILITIES TO DEVELOPER OR LANDLORD'S UTILITIES AND INSTALLATION OF A COMPLETE PLUMBING SYSTEM WITHIN SPACE. PROVIDE NEW MATERIALS, FITTINGS, ACCESSORIES, FIXTURES AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS SHOWN ON PLANS AND AS REQUIRED. WORK INCLUDES FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES PROVIDED BY OTHERS. FURNISH ALL NEW MATERIALS. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, AND THEIR WORKMANSHIP SHALL BE HIGH STANDARD, ACCEPTABLE TO OWNER.
2. CODES: ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS, OR ORDINANCES. PAY FOR ANY PERMITS REQUIRED, AND CALL FOR ANY REQUIRED INSPECTIONS TO BE MADE BY LOCAL AUTHORITIES.
3. INTENT OF DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR PROJECT. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, PIPING, FIXTURES AND EQUIPMENT REQUIRED. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FULFILL INTENT OF PLANS. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. USE DIMENSIONED ARCHITECTURAL DRAWINGS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES, AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
4. FSE ROUGH-IN DRAWINGS: REFER TO ROUGH-IN DRAWINGS FURNISHED BY THE FOOD SERVICE EQUIPMENT SUPPLIER, FOR EXACT LOCATION OF WATER PIPING SUPPLIES AND DRAIN LOCATIONS TO SERVE FOOD SERVICE EQUIPMENT. DO NOT LAYOUT WORK OF THIS SECTION WITHOUT SUCH DRAWINGS.
5. COORDINATE WITH WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE.
6. MISCELLANEOUS EXPENSES SUCH AS HOOK-UP CHARGES, PERMITS, INSPECTIONS, AND OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING SYSTEM ARE INCLUDED AS PART OF THIS SECTION.
7. PIPING SYSTEMS, GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. SEAL PIPE PENETRATIONS OF FIRE FLOORS AND FIREWALLS WITH FIREPROOF PUTTY OR GROUT. PROVIDE SUMNER OR EQUIVALENT PIPE HANGING SYSTEM IN CHASES. PROVIDE HANGERS AS RECOMMENDED BY HANGER MANUFACTURER AND MSS-SP-58, 69 AND 89.
8. WASTE PIPING: PROVIDE ALL DRAIN, WASTE AND SEWER PIPING WITHIN PROJECT SPACE WITH CONNECTION TO SANITARY WASTE SYSTEM ON SITE. PROVIDE A COMPLETE SYSTEM OF WASTE PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS ALL PIPING SHALL BE SLOPED UNIFORMLY AT 2% UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS.
   8.1. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT APART.
   8.2. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH
9. VENTS: PROVIDE A COMPLETE SYSTEM OF VENT PIPING, CONSISTING OF SCH 40 PVC PIPE, CONNECTORS AND FITTINGS. COMBINE THE VENT RISERS IN THE CEILING SPACE. CONNECT TO EXISTING VENT MAIN.
10. WATER PIPING: CONNECT TO EXISTING WATER PIPING AND PROVIDE A NEW DOMESTIC HOT AND COLD WATER PIPING SYSTEM INSIDE THE BUILDING AS SHOWN ON DRAWINGS. LAY OUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE PEX WITH ZURN PEX PRE-ASSEMBLED MANIFOLDS. PROVIDE WATER HAMMER ARRESTERS AT RESTROOM AREA & CHINESE WOK AREA PER DRAWING SHOWN. FLUSH WATER PIPING CLEAR OF DEBRIS AND CLEAN AERATORS AND STRAINERS AT TERMINATION OF INSTALLATION.
11. NATURAL GAS PIPING INSIDE AND OUTSIDE THE BUILDING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-33 PIPE WITH 125 LB MALLEABLE IRON SCREWED FITTINGS WHERE EXPOSED. PRIMER AND PAINT EXTERIOR GAS PIPING TO PREVENT RUST. PROVIDE ALL UNIONS, SHUT OFF VALVES AND DRIP LEGS REQUIRED BY NFPA-54 AND GOVERNING CODES. PROVIDE ALL TESTS, INSPECTIONS, HANGERS AND APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM. TAP ON UTILITY GAS MAIN AND GAS METER SHALL BE BY GAS COMPANY. EXTEND PIPING FROM METER TO EQUIPMENT AS DETAILED ON DRAWINGS. PROVIDE ROUTING, HANGING, AND PENETRATIONS PER OWNER'S REQUIREMENTS.
12. PIPE INSULATION: INSULATE ALL COLD WATER AND CONDENSATE PIPING WITH ½", AND HOT WATER PIPING WITH 1", PREFORMED FIBERGLASS WITH ALL-SERVICE JACKET WITH VAPOR BARRIER (BY CT, OC, JM, PPG, OR KNAUF). AT CONTRACTOR'S OPTION, PLENUM-RATED ELASTOMERIC INSULATION (BY ARMSTRONG, RUBATEX OR EQUAL) MAY BE USED.
13. PIPE MARKING: IDENTIFY ALL PIPING WITH ANSI/ASME A13.1 2007 APPROVED PIPE MARKER SYSTEM USING EZ ARROWS AND ARROW BANDING TAPE IN CONJUNCTION WITH EZ PIPE MARKERS. PRODUCTS AVAILABLE AT PIPEMARKER.COM. 822-274-6271. INSTALL PER MANUFACTURERS INSTRUCTIONS.
14. SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED AT BRANCHES TO GROUPS OF MORE THAN TWO FIXTURES, AND AT THE WATER HEATER, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. USE CHROME-FINISHED FORGED BRONZE BODY BALL VALVE, WITH TEFLON SEATS AND PACKING, 400 LB WOG, WITH SOLDER ENDS, EQUAL TO JENKINS #902-T. GAS VALVES SHALL BE ALL BRONZE LUBRICATED PLUG COCKS FOR SCREWED PIPE, BY WALWORTH, ROCKWELL, NORDSTROM OR APPROVED EQUIVALENT.
15. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS OR WALLS WHERE CONCEALED CONTROL DEVICES ARE LOCATED, EXCEPT WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN CEILINGS.
16. SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROME PLATED BRASS.
17. INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES, PER MANUFACTURER'S ROUGH-IN DIMENSIONS. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AND RESTORE TO ORIGINAL CONDITIONS. PROVIDE CLEAN CONDITIONS AT TERMINATION OF WORK.
18. TEST WATER, GAS, VENT, AND WASTE SYSTEMS PER LOCAL CODE REQUIREMENTS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP ARE DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST TILL STANDARDS ARE ACHIEVED.
19. GUARANTEE THE WORK AND THE INSTALLATION FOR ONE YEAR AFTER FORMAL ACCEPTANCE BY THE OWNER.
20. ALL SAW CUT AND PATCH BACK OF FLOOR TO MATCH EXISTING FINISHES. BACKFILL PER DEVELOPER OR OWNER' SOILS ENGINEER'S RECOMMENDATIONS

PLUMBING KEY NOTES

1. 3/4" G DOWN TO WATER HEATER W/ SOV (SHUT OFF VALVE).
2. ¾" G DOWN TO RICE COOKER W/ SOV. PROVIDE 6" LENGTH OF RIGID PIPE BETWEEN RICE COOKER AND FLEXIBLE GAS LINE.
3. CW SHUT OFF BALL VALVE LOCATED ABOVE CEILING.
4. 1-1/4" G DOWN TO DEEP FRYER W/ SOV.
5. 2" G DOWN TO CHINESE RANGE "20A OR 20B" W/ SOV. LOCATE STUB OUT BEHIND THE END OF RANGE FOR EASY ACCESS.
6. 1" G DOWN TO CHINESE RANGE "20Q" W/ SOV.
7. EXHAUST & INTAKE VENTS UP TO ROOF. COORDINATE WITH MECHANICAL DRAWINGS AND DETAIL #10 ON SHEET P-500.
8. ROUTE NEW PIPING IN WALL.
9. 2" GAS ANSUL VALVE PROVIDED BY OWNER (G.C. CALL CAPITIVEAIRE FOR DELIVERY). INSTALL GAS ANSUL VALVE AS CLOSE TO EXTERIOR WALL AS ALLOWED PER LOCAL CODE.
10. SEE WATER HEATER DETAIL #5 ON PLAN P-400.
11. 3/4" G UP TO ROOF W/ SOV. FOR ROOFTOP UNIT.
12. ½" CW TO TRAP PRIMER. PROVIDE WALL ACCESS PANEL. RUN ½" CW BELOW FLOOR TO FLOOR DRAIN, SEE DETAIL #17 ON PLAN P-500.
13. NOT USED.
14. CONNECT TO EXISTING, FIELD VERIFY EXACT LOCATION.
15. SHUT OFF VALVE W/ HANDLE AT 11'-0" ABOVE FINISH FLOOR, EASILY ACCESSIBLE. G.C. TO INSTALL LOCATION INDICATOR STICKER PROVIDED BY PANDA EXPRESS
16. 1-1/4" G UP TO ROOF W/ SOV FOR MAKE-UP AIR UNIT.
17. ½" HW & CW TO CHEMICAL FEED SYSTEM.
18. GAS HEADER - INSTALL TIGHT TO WALL AND TIGHT TO BOTTOM OF TRUSSES.
19. COLD WATER MANIFOLD "C" ABOVE CEILING. REF ARCH ELEVATIONS
20. COLD WATER MANIFOLD "D" ABOVE CEILING. REF ARCH ELEVATIONS
21. HOT WATER MANIFOLD "B" ABOVE CEILING. REF ARCH ELEVATIONS
22. HOT WATER MANIFOLD "A" ABOVE CEILING. REF ARCH ELEVATIONS
23. ORIENTATION OF WATER HEATER CONTROL PANEL TO MATCH IMAGE SHOWN ON PLANS. DO NOT TURN WATER HEATER ON 45 DEGREE ANGLE.
24. ISOLATION VALVE AND GAS SUB METER WITH REMOTE READER ABOVE CEILING (EXISTING BY LANDLORD)

PLUMBING SYMBOLS

Symbol	Description
	COLD WATER PIPING
	HOT WATER PIPING
G	GAS LINE
	PLUMBING VENT (V)
FV	PLUMBING VENT (V) BELOW SLAB/GRADE
	SANITARY WASTE (SAN) BELOW SLAB/GRADE
	PIPE TURNING UP/DOWN
	GAS COCK
	F.S. WITH HALF GRATE
FD	FLOOR DRAIN
A	FIXTURE IDENTIFICATION
1	PLAN NOTE
1	KITCHEN EQUIPMENT IDENTIFICATION
VTR	VENT THRU ROOF
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
CO	CLEANOUT
WCO	WALL CLEANOUT
FCO FGCO	FLUSH FLOOR/GRADE CLEANOUT
FPC	FIRE PROTECTION CONTRACTOR
DNR	DEPARTMENT OF NATURAL RESOURCES
TYP	TYPICAL
(E)	EXISTING
	POINT OF CONNECTION
BV	BALL VALVE
CV	CHECK VALVE
GS	GREASE WASTE



NOTES:

1. ALL WATER LINES SERVING WATER HEATERS SHALL RUN DOWN FROM CEILING SPACE IN WALL, OFFSET OVER THROUGH WALL 6" BELOW CEILING, ABOVE WATER HEATER, THEN DROP DOWN TO HEATER.
2. AVOID RUNNING WATER VALVES DIRECTLY ABOVE WATER HEATER, TO AVOID DAMAGE TO WATER HEATER CAUSED BY POSSIBLE LEAKS.
3. REFER TO PIPING RISER DIAGRAMS, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
4. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE, U.N.O.
5. REFER TO RISER DIAGRAMS, SHEET P-400

WATER & GAS PLAN 1
Scale:1/4"=1'-0" P-100

CONSTRUCTION SET - 2017/07/30

PANDA RESTAURANT GROUP INC.
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REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

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Professional Certification

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland. License number 22242 , Expiration Date: 02/03/19

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

P-100

W□TER □ G□S PL□N

PLUMBING FIXTURE SCHEDULE

A	NOT USED.
B	NOT USED
C	NOT USED
D	FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 9/P-500 & 17/P-500. PROVIDE TRAP PRIMER
E	FLOOR SINK: ZURN # Z1901-32, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH ALUMINUM DOME STRAINER WITHOUT GRATE.
E1	FLOOR SINK: ZURN # Z1901-2-32, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR PROVIDED WITH PORCELAIN ENAMEL LOOSE-SET 1/2 GRATE AND ALUMINUM DOME STRAINER.
F	NOT USED
G	FLOOR DRAIN WITH FUNNEL: ZURN # ZB415-AR-4 ACID RESISTING EPOXY COATED CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, 4" FUNNEL. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL. PROVIDE TRAP PRIMER
H	NOT USED
I	GREASE INTERCEPTOR: JENSEN OR EQUAL, 1250 GALLONS, 4" INLET AND OUTLET. TRAFFIC COVER. REFER TO CIVIL DRAWINGS FOR LOCATION. THE DESIGN OF THE GREASE INTERCEPTOR SHALL BE APPROVED BY LOCAL CITY REQUIREMENT.
J	WATER HAMMER ARRESTER: J. R. SMITH #5020, 1" NIPPLE OR EQUAL
K	PROVIDE ZURN 375ST STAINLESS STEEL REDUCED PRESSURE PRINCIPLE ASSEMBLY AT BAG-N-BOX. REFER TO 19/P-500
L	HOSE BIBB: ACORN #8121 WITH VACUUM BREAKER, CHROME PLATED.
L1	HOSE BIBB: WOODFORD MB65 FREEZELESS COMMERCIAL CONCEALED BOX TYPE WALL HYDRANT IN SECURE LOCK STYLE MODULAR BOX. SINGLE CHECK ANTI SIPHON VACUUM BREAKER. CHROME HEAD, BRASS VALVE BODY HYDRANT WITH ¾" HOSE CONNECTION 18" A.F.F.
M	TRENCH DRAIN: ZURN #Z-886-RFS, 6" WIDE x 80" LONG, TRENCH DRAIN SYSTEM. MODULAR CHANNEL SECTIONS SHALL BE MADE OF HIGH DENSITY POLYETHYLENE WITH INTERLOCK ENDS, A RADIUSED BOTTOM AND REINFORCED STAINLESS STEEL SLOTTED GRATE.
N	PROVIDE WATTS SERIES CV CHECK VALVE AFTER EACH BV.
O	FREEZE PROOF ROOF HYDRANT: WOOFORD MODEL: RHY2-MS
P1	MOP SINK: GSW # SE2424FM 24"x24" STAINLESS STEEL UINIT WITH 13" HIGH SIDES, 18 GA. STAINLESS STEEL.CHICAGO FAUCET #897 WITH INTEGRAL STOPS IN SHANKS, WALL BRACE, HOSE THREADS, PAIL HOOK, VACUUM BREAKER□ ROUGH BRASS FINISH□ THREE FOOT RUBBER HOSE□ 3" TRAPPED AND VENTED WASTE CONNECTION. PROVIDE 3/4" HW & CW RI 8" OC, 36" A.F.F. PROVIDE ¾" CW HOSE BIBB, ACORN #8121 W/ VACUUM BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.
P2	GAS WATER HEATER MFG: A.O. SMITH MODEL: BTX-100, SERIES 130, (OR STATE MODEL SHE50 100NE FORCE 90□) 50 GALLON, 100,000 BTU/HR GAS INPUT. FIRST HOUR DELIVERY 151 GALLONS 100 RISE, 116 GPH CONTINUOUS RECOVERY 100 RISE.
P3	ELECTRICAL WATER HEATER MFG: A.O. SMITH MODEL DEL-10, 10 GALLON STORAGE, 6.0 KW, 208 VOLT, 1 PHASE, 30 GPH RECOVERY 80 RISE.
CP	HW CIRC. PUMP - MFG: BELL & GOSSETT. MODEL: NBF-22U, 1/12 HP, 120 VOLT, 7.5 GPM @ 10' HEAD
RD	RD - ROOF DRAIN: J.R. SMITH #1010 CAST IRON ROOF DRAINS WITH FLASHING COLLAR AND CAST IRON DOME. FURNISH EXTENSION (SUFFIX-E) FOR INSULATED ROOFS. SUMP RECEIVER (SUFFIX-R) AND UNDERDECK CLAMP (SUFFIX-C) FOR ALL BUT POURED-IN-PLACE INSTALLATIONS. OUTLET CONNECTION TYPE SHALL BE COMPATIBLE WITH PIPING SYSTEM.
OD	OD - OVERFLOW ROOF DRAIN: J.R. SMITH #1070 WITH SAME FEATURES AS DESCRIBED FOR "ROOF DRAINS". TANDPIPES SHALL BE ADJUSTED AND SECURED SO THAT AFTER THE INSTALLATION OF THE DRAIN ASSEMBLY, THE TOP OF THE STANDPIPE SHALL BE (2") ABOVE THE ADJACENT ROOF SURFACE.

KITCHEN EQUIPMENT SCHEDULE

ITEMS IN THIS SCHEDULE ARE FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR AND CONNECTED TO THE PLUMBING UTILITIES BY THE PLUMBING CONTRACTOR, WHO SHALL INSTALL ALL PLUMBING DEVICES FURNISHED WITH EQUIPMENT.

WASTE, FS = FLOOR SINK, CFD = CONDENSATE FLOOR DRAIN, VB = VACUUM BREAKER. FLEX = A SIX FOOT COILED LENGTH OF FOOD QUALITY FLEXIBLE REINFORCED PLASTIC TUBING CONNECTED FROM THE ROUGH IN TO THE EQUIPMENT WITH ALL REQUIRED ADAPTERS AND HOSE CLAMPS.

ALL PIPES MUST MAINTAIN A MINIMUM CLEARANCE OF 6" AFF AND MUST BE WELL SUPPORTED. NO FLOOR SUPPORTS ALLOWED.

4A	SERVING COUNTER MOUNTED SODA MACHINE: IF PROVIDED, SODA MACHINE INSTALLER TO PROVIDE DRAIN LINES FROM ICE BIN AND SODA MACHINE TO FS WITH 1" AIR GAP. DRAIN LINE TO BE INSULATED. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.
4AB	BEVERAGE COUNTER MOUNTED SODA MACHINE WITH ICE MACHINE: PROVIDE ¾" COPPER PIPE IW FROM COUNTER TROUGH DRAIN TO FS WITH 1" AIR GAP, INSULATE. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.
4F	WATER FILTER: PROVIDE ¾" CW AT 96" AFF WITH BV. PROVIDE FLEX AND REDUCED PRESSURE STAINLESS STEEL BACKFLOW PREVENTOR, OR OTHER DEVICE AS REQUIRED BY LOCAL CODE. INSTALL OWNER PROVIDED WATER FILTER AND MAKE CONNECTIONS TO BACKFLOW PREVENTOR AND WATER SUPPLY. PROVIDE ALL REQUIRED FITTINGS TO ALLOW SODA MACHINE INSTALLER TO HOOK UP BOOSTER PUMP TO WATER FILTER.
9D	ICE TEA MAKER: PROVIDE ½" CW @ 24" A.F.F. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE TEA INSTALLER TO HOOK UP ONE BV, OTHER BV FOR OTHER EQUIPMENT.
10J	SODA MACHINE MOUNTED ICE MACHINE. PROVIDE 1/2" CW AT 24" A.F.F. WITH BV. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE MACHINE INSTALLER TO HOOK UP ICE MACHINE TO CW.
20A 20B	CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1½" GAS SUPPLY AT 9" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
20Q	CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1" GAS SUPPLY DOWN TO 9" AFF REDUCE TO ¾" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.
21G	FRYER: PROVIDE 1-1/2" GAS SUPPLY DOWN TO 14" AFF THEN TRANSITION TO 1" WITH 90 ANGLE AND SHUT OFF VALVE. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS WITH 90 ANGLE. SEE DETAIL ON P-500
25A	RICE COOKER: PROVIDE ¾" GAS SUPPLY AT 30", AND ¾" GAS SUPPLY AT 10" AFF WITH SHUT OFF VALVES, ONE FOR EACH UNIT. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS.
31M	WALK-IN COOLER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS.
32M	WALK-IN FREEZER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS. PROVIDE HEAT TRACE REFER TO ELECTRICAL DRAWING.
40A	POT SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS & CV. CONNECT TO OWNER SUPPLIED FAUCET WITH COPPER PIPING. PROVIDE 2" COPPER PIPE IW (MANIFOLD ALL COMPARTMENT DRAINS INTO ONE LINE) TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. SEE DETAIL ON SHEET P-500.
40B	FAUCET FOR CHEM: T&S BRASS MODEL #B-0669-POL
41B 41C	SINGLE BOWL PREP SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS. TRANSITION TO ¾" PRIOR TO CONNECTION. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS.
45A	HAND SINK, PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.

PLUMBING KEY NOTES

1. SODA CONDUIT: PROVIDE 4" PVC CONDUIT BELOW FLOOR FROM THE SIDE OF SODA STORAGE RACK TO SODA DISPENSER PER DETAIL #4 ON SHEET P-500.
2. CONDENSATE: ROUTE SHARED CONDENSATE LINE THROUGH WALK-IN COOLER. DO NOT RUN THROUGH WALK-IN FREEZER. PROVIDE 1" INSULATED CONDENSATE DRAIN PIPE FROM THE EVAPORATIVE COIL. DISCHARGE TO FLOOR SINK OR MOP SINK WITH AIR GAP OF TWICE PIPE DIAMETER. INSTALL AT MINIMUM 76" HEIGHT A.F.F. REFER TO DETAIL #2 ON SHEET P-500.
3. NOT USED.
4. PROVIDE TRAP PRIMER FOR FLOOR DRAIN. SEE DETAILS #9 & #17 ON DWG P-500.
5. RELIEF VALVE: PROVIDE 3/4" PIPE FULLY INSULATED. CONTINUE AND STOP AT 6" ABOVE GROUND AT FLOOR DRAIN.
6. NOT USED.
7. ¾" CONDENSATE DRAIN UP TO MECHANICAL UNIT ON ROOF.
8. CONDENSATE DRAIN DOWN TO FLOOR SINK WITH AIR GAP.
9. 1" CONDENSATE DRAIN UP TO MECHANICAL UNIT ON ROOF.

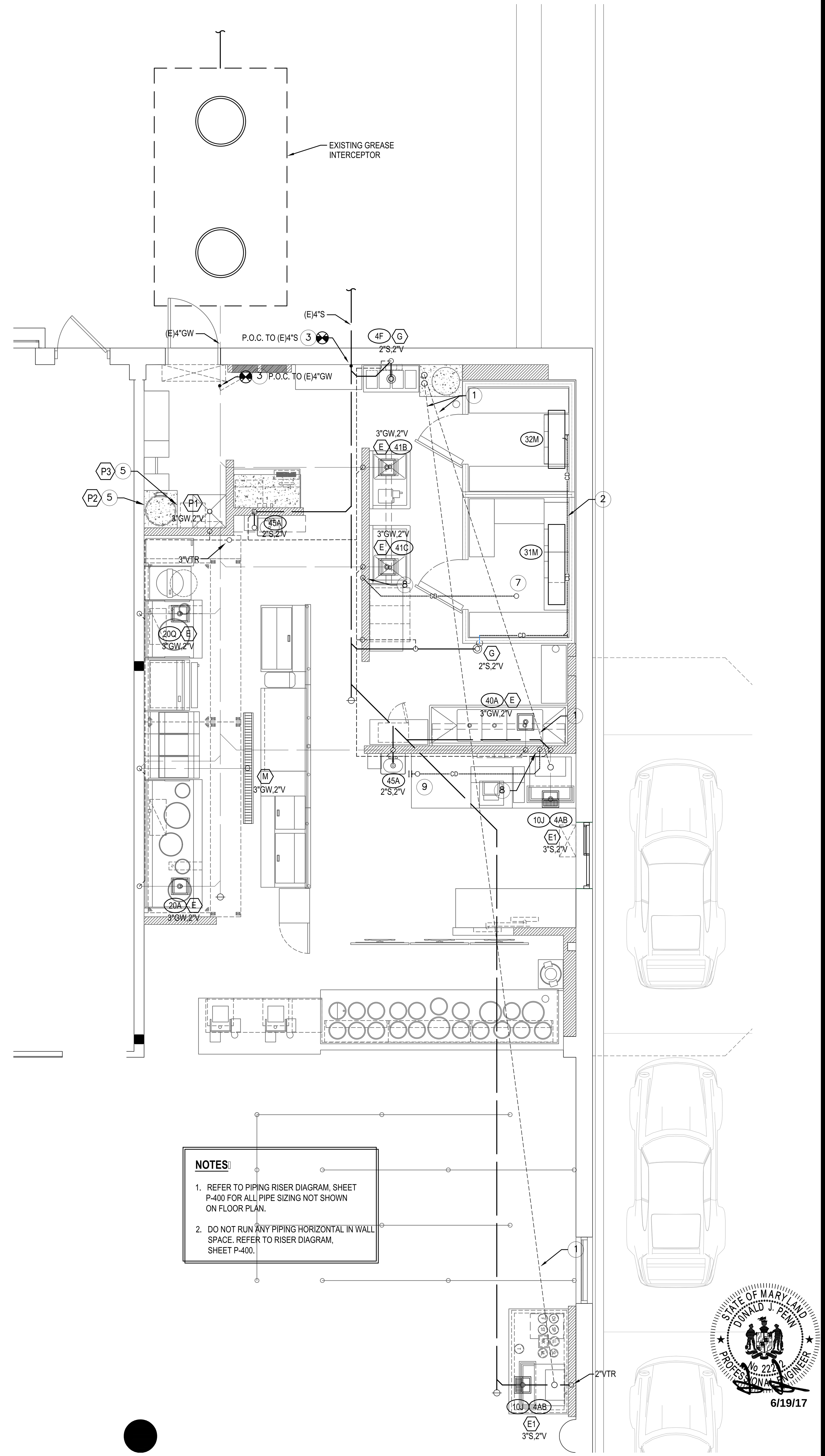
FIXTURE BRANCH SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (HANDICAPPED)	3/4"	--	4"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
2 AND 3 - COMP SINK	3/4"	3/4"	3"	2"
HAND SINK	1/2"	1/2"	2"	1 1/2"
MOP SINK (J.S.)	3/4"	3/4"	3"	2"
EQUIPMENT	3/4"	--	--	--

PIPE MATERIAL SCHEDULE

SERVICE	UNDERGROUND	ABOVE GROUND
COLD & HOT WATER	TYPE "K" OR "L" HARD DRAWN COPPER TUBE	PEX
SANITARY WASTE	□SCH. 40 PVC	□SCH. 40 PVC
SANITARY VENT	□SCH. 40 PVC	□SCH. 40 PVC
GAS	——	BLACK STEEL, SCHEDULE 40
INDIRECT DRAIN	——	HARD DRAWN COPPER TUBE TYPE "M"

□SCH. 40 PVC IS PREFERRED IF APPROVED BY AUTHORITY HAVING JURISDICTION.



NOTES□

1. REFER TO PIPING RISER DIAGRAM, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
2. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE. REFER TO RISER DIAGRAM, SHEET P-400.

WASTE & VENT PLAN 1

Scale:1/4"=1'-0" P-101

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DRAWN BY: STAFF

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ARCH PROJECT #:

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Professional Certification

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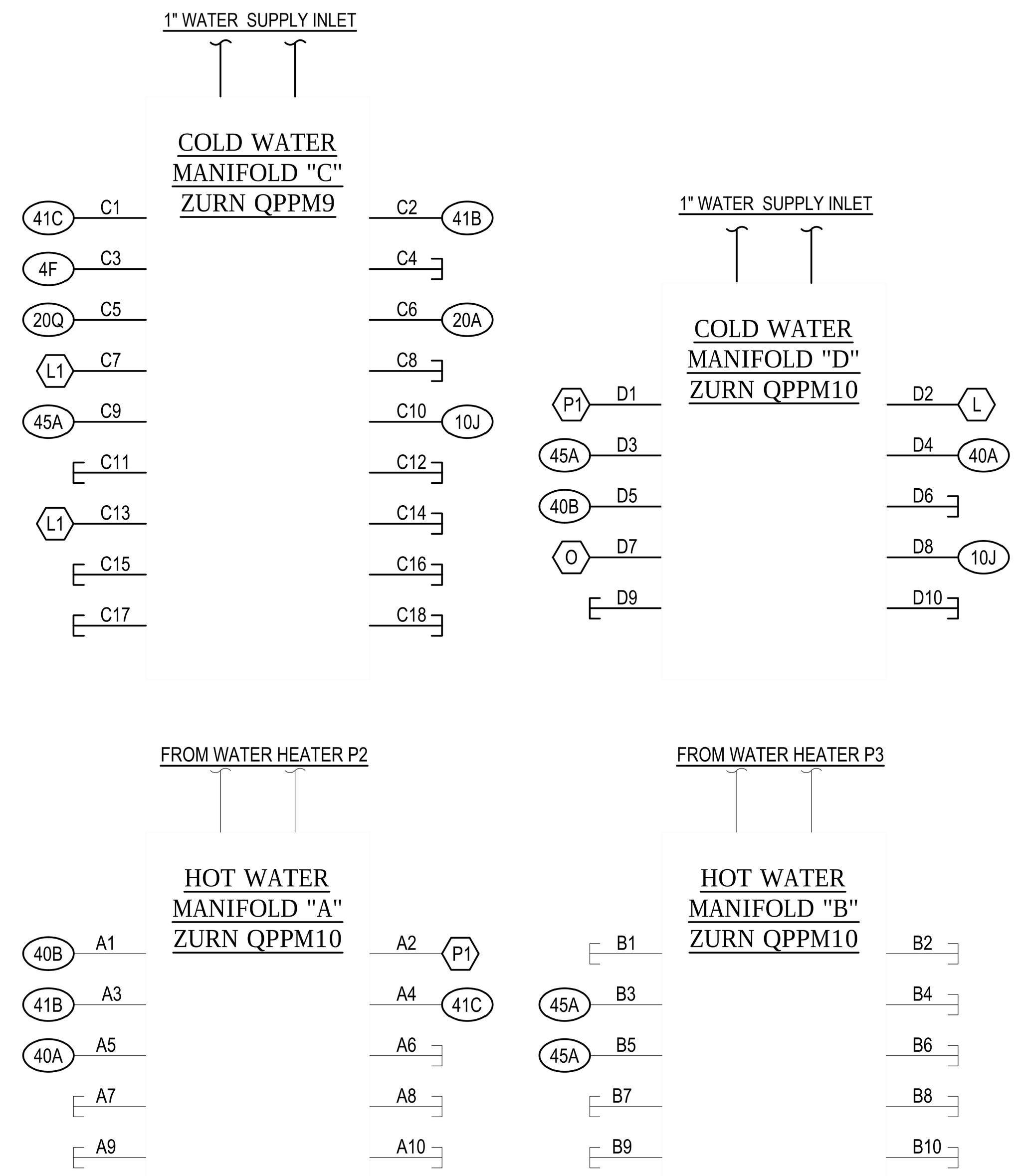
CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

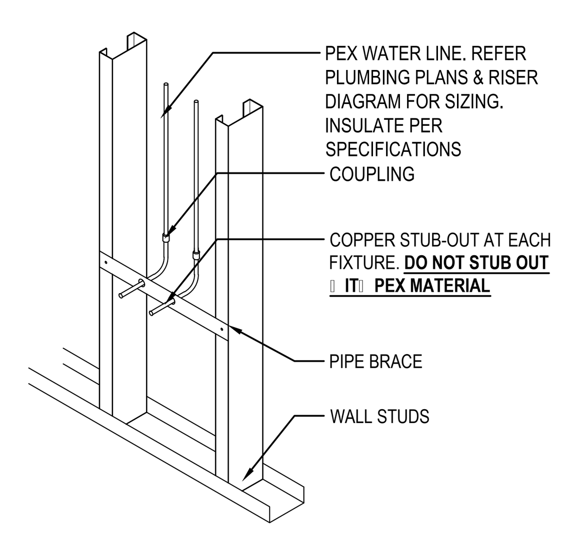
P-101

W□STE □ □ENT PL□N



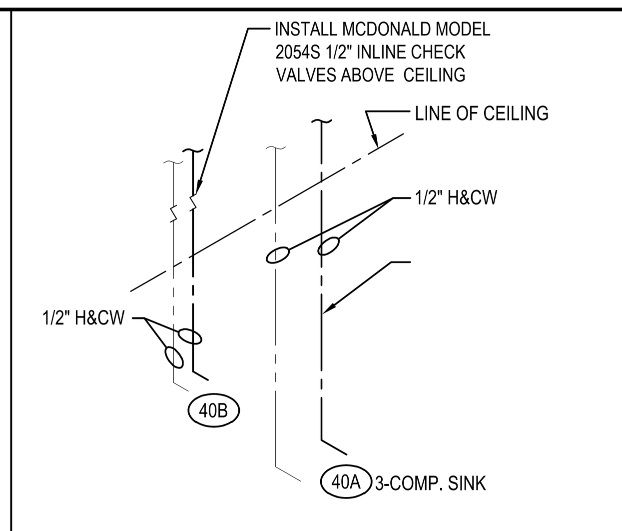
NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE UNLESS NOTED OTHERWISE.

NOTE:
ALTERNATE MANUFACTURER FOR PEX MANIFOLD: VIEGA MANABLOC



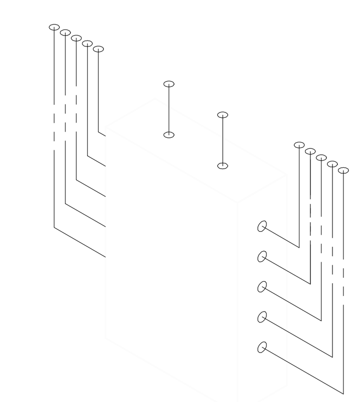
PEX STUB OUT DIAGRAM

NOTE:
PROPERLY STRAP LINES AND PROVIDE PROTECTIVE GROMMETS WHEN RUNNING THROUGH METAL STUDS



CHEMICAL FEED SYSTEM PIPING DIAGRAM

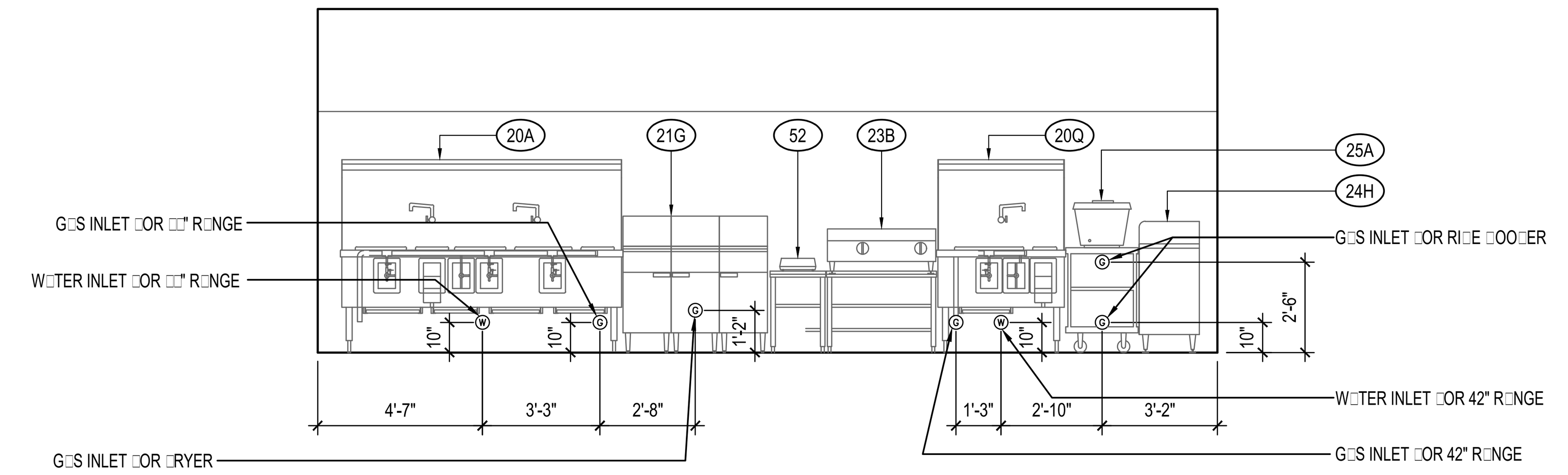
NOTE:
G.C. SHALL VERIFY WITH LOCAL JURISDICTION ON REQUIRED METHOD OF CHEMICAL SYSTEM INSTALLATION AS SHOWN ABOVE. IF THE ABOVE DETAIL IS NOT ALLOWED BY LOCAL JURISDICTION, THEN THE SYSTEM SHALL BE INSTALLED IN-LINE/INTERGRATED INTO 3 COMPARTMENT SINK.



MANIFOLD INSTALL DIAGRAM

NOTE:
IN ROOM WHERE PEX MANIFOLD IS LOCATED, PEX LINES AND MANIFOLD SHALL BE SURFACE MOUNTED TO WALL ABOVE LAY-IN CEILING.

WATER RISER DIAGRAM 5
NO SCALE P-400



GAS COOKLINE ELEVATION 4
NO SCALE P-400

GAS EQUIPMENT SCHEDULE

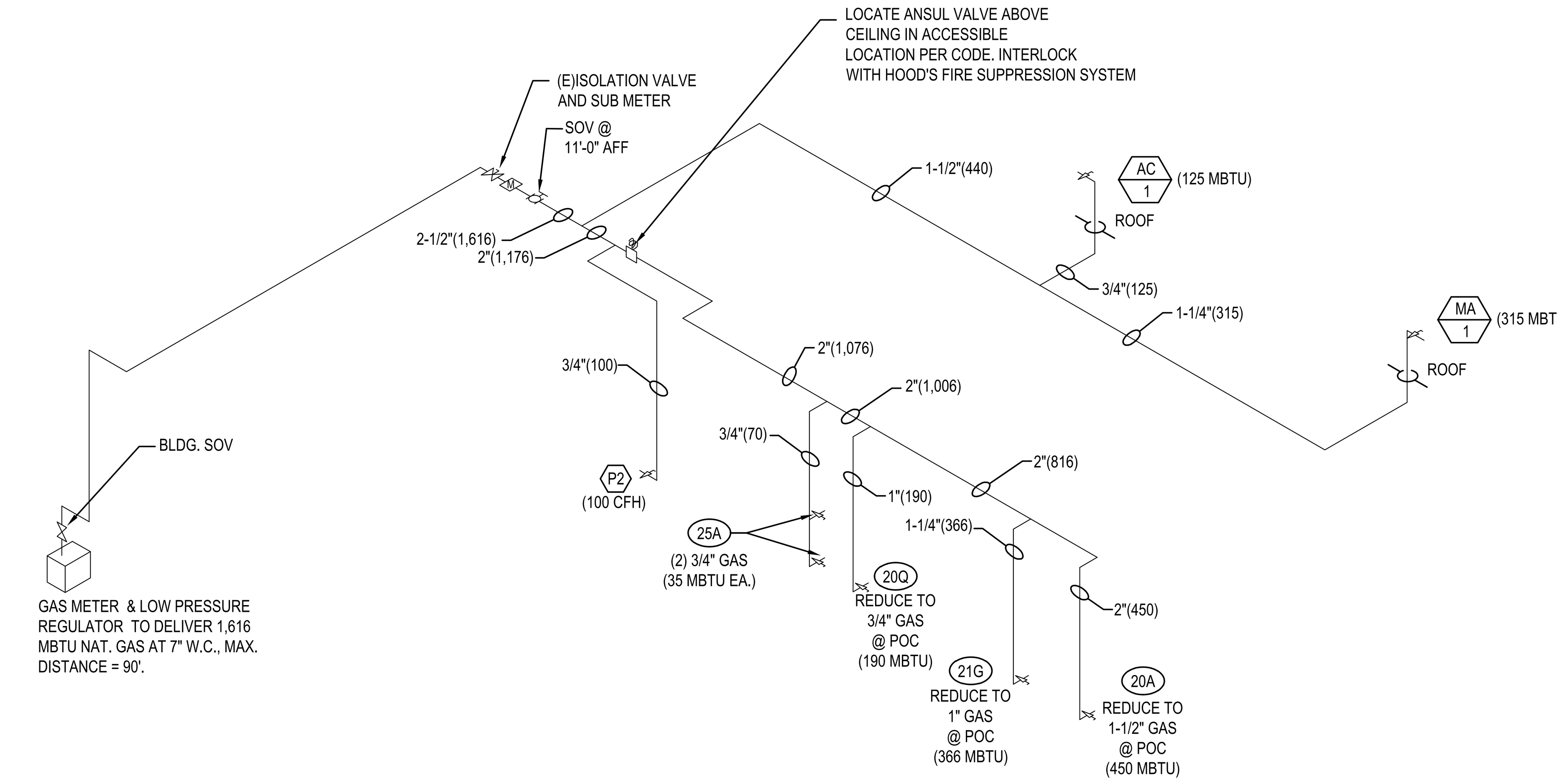
ITEM	QTY	EQUIPMENT	MBTU	MBTU	
			EACH	EACH	TOTAL
P2	1	WATER HEATER	100	100	100
20A	1	CHINESE RANGE	450	450	450
20Q	1	CHINESE RANGE	190	190	190
21G	1	DEEP FRYER	366	366	366
25A	2	RICE COOKER	35	35	70
AC-1	1	AIR CONDITIONER	125	125	125
MA-1	1	MAKE-UP AIR UNIT	315	315	315
TOTAL					1,616

LCALCULATION:

TOTAL DEVELOPED LENGTH: 90'

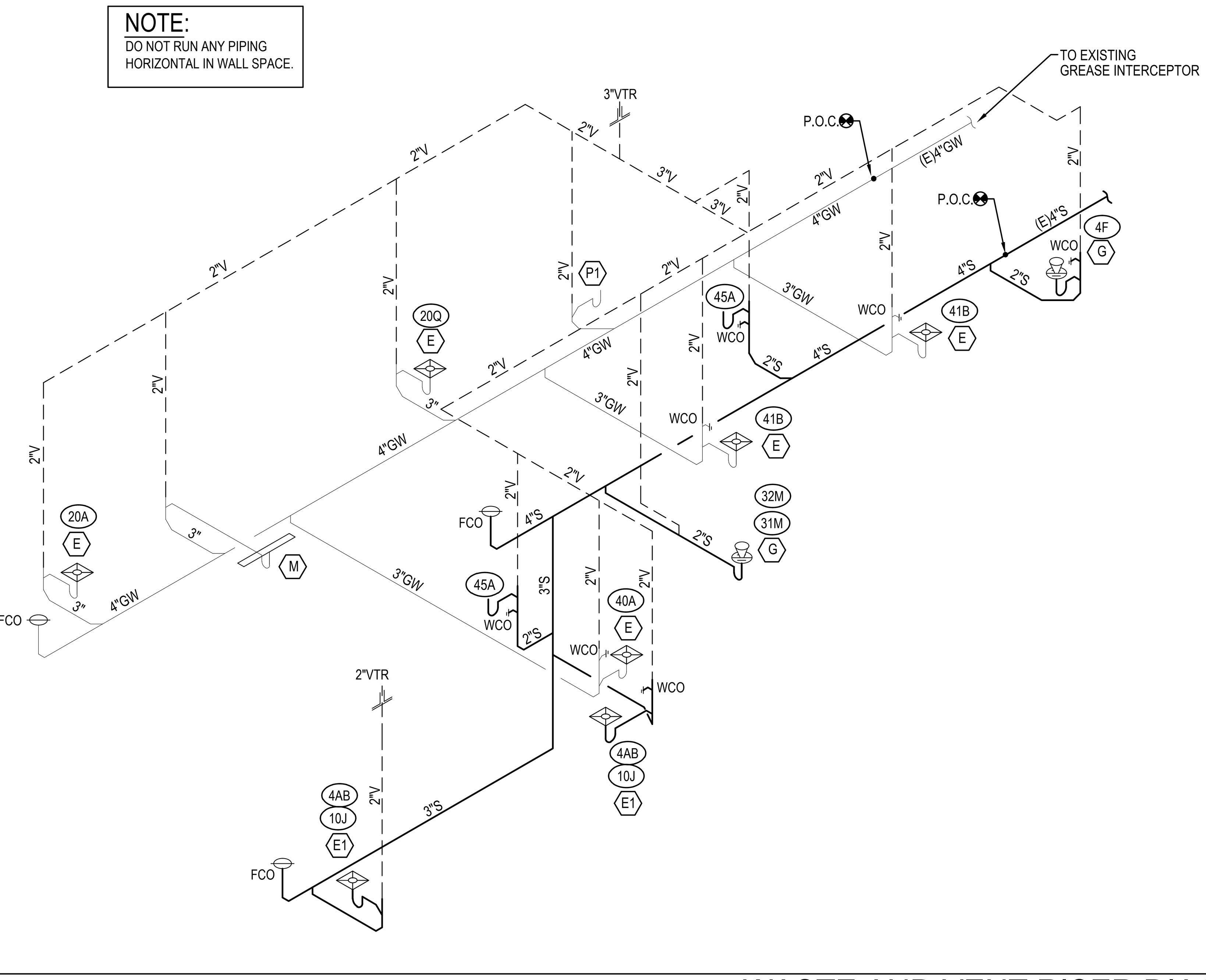
TOTAL LOAD: 1,616 MBTU

NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE.



GAS RISER DIAGRAM 3
NO SCALE P-400

NOTE:
DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE.



WASTE AND VENT RISER DIAGRAM 4
NO SCALE P-400

EQUIPMENT: REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET P-101

P2 GAS WATER HEATER

P3 ELECTRICAL WATER HEATER

NOTES:

1. PREFERRED PIPING DIAGRAM.
   THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING
2. SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
3. SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE.
4. REF. TO DETAIL 13/P-500 FOR ALL LINES TO BE INSULATED.

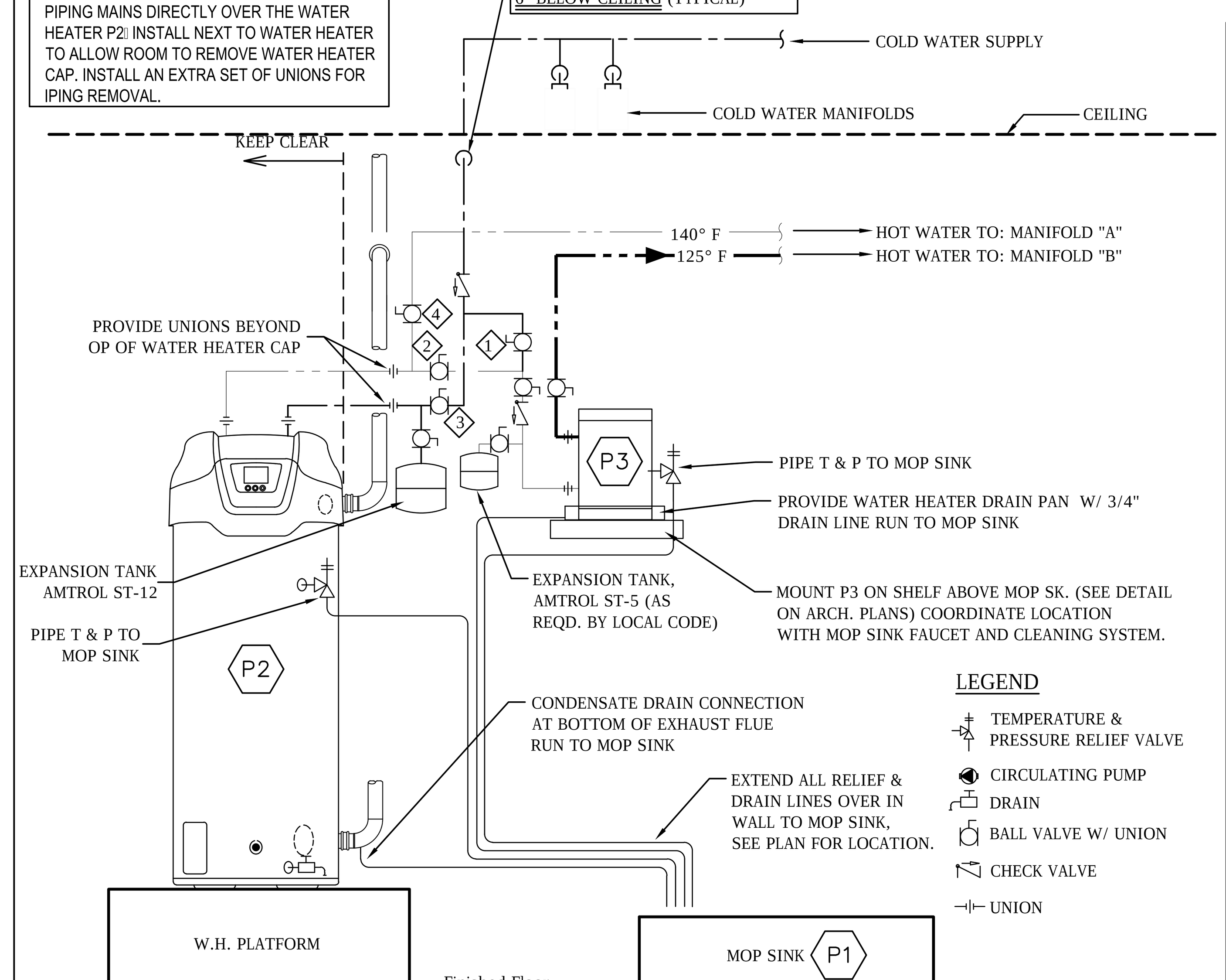
WARNING: THIS DRAWING SHOWS SUGGESTED PIPING CONFIGURATION AND OTHER DEVICES; CHECK WITH LOCAL CODES AND ORDINANCES FOR ADDITIONAL REQUIREMENTS.

THE ELECTRIC WATER HEATER IS PROVIDED AS A BACK UP WATER HEATER, TO MAINTAIN HW TO HAND SINKS AND LAVATORIES IF P2, THE GAS WATER HEATER FAILS, OR IS OFF LINE FOR ROUTINE MAINTENANCE. WHEN THIS IS THE CASE THE CW BYPASS VALVE, 1 THAT IS NORMALLY CLOSED SHALL BE OPENED, THE HW BRANCH BYPASS VALBE, 2 THAT IS NORMALLY OPENED SHALL BE CLOSED AND VALVES 3 AND 4 SHALL BE CLOSED TO ALLOW SERVICES OF GAS WATER HEATER P2.

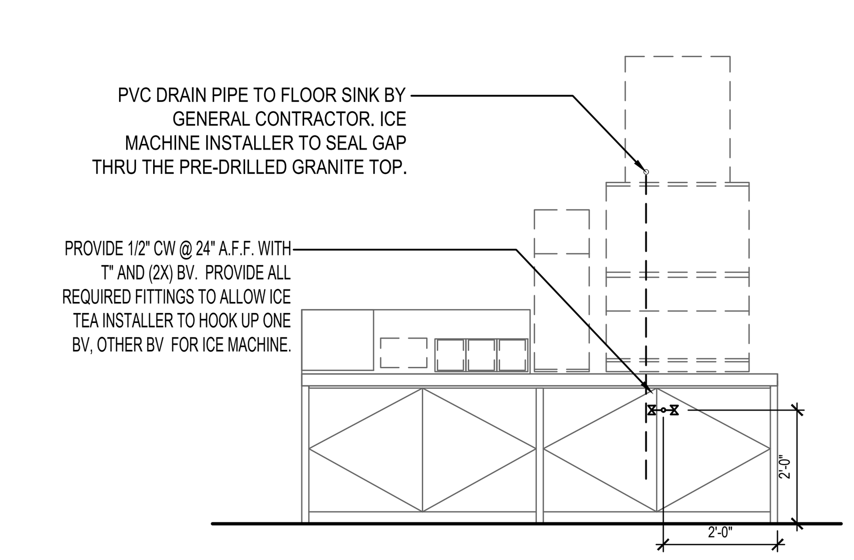
FOR NORMAL OPERATION, THE GAS WATER HEATER P2 HW SUPPLY SETPOINT IS 140°F AND THE ELECTRIC WATER HEATER P3 HW SETPOINT IS 125°F. HW MADE BY P2 IS ALLOWED TO FLOW THROUGH P3 TO KEEP THE HW FRESH IN/THROUGH P3. THE ELECTRIC HEAT STRIPS IN P3 WOULD NOT TURN ON, SINCE THE SETPOINT WOULD ALWAYS BE MET. WHEN THE CW BY PASS VALVE IS OPENED AND AND HW BRANCH BYPASS VALVE IS CLOSED, THE ELECTRIC WATER HEATER P3 MAY OPERATE NORMALLY WITH CW AT THE INLET, HW AT THE OUTLET AND THE ELECTRIC HEAT STRIPS WOULD CYCLE ON/ONFF AS REQUIRED TO MAINTAIN 125° DEGREES HW SETPOINT. ALL PUBLIC RESTROOM LAVATORIES SERVED WITH HW FROM EITHER WATER HEATER, ARE PROVIDED WITH INTEGRAL TMV's TO LIMIT THE MAXIMUM HW SUPPY TEMPERATURE TO 110 DEGREE F AT THEIR OUTLETS.

NOTE:
DO NOT INSTALL VALVES, EQUIPMENT OR PIPING MAINS DIRECTLY OVER THE WATER HEATER P2. INSTALL NEXT TO WATER HEATER TO ALLOW ROOM TO REMOVE WATER HEATER CAP. INSTALL AN EXTRA SET OF UNIONS FOR PIPING REMOVAL.

NOTE: ALL PLUMBING LINES & W.H. VENT TO PENETRATE WALL 6" BELOW CEILING (TYPICAL)



HOT WATER SYSTEM DIAGRAM 2
NO SCALE P-400



DRINK STATION PLUMBING 1
NO SCALE P-400

6/19/17

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

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PANDA EXPRESS

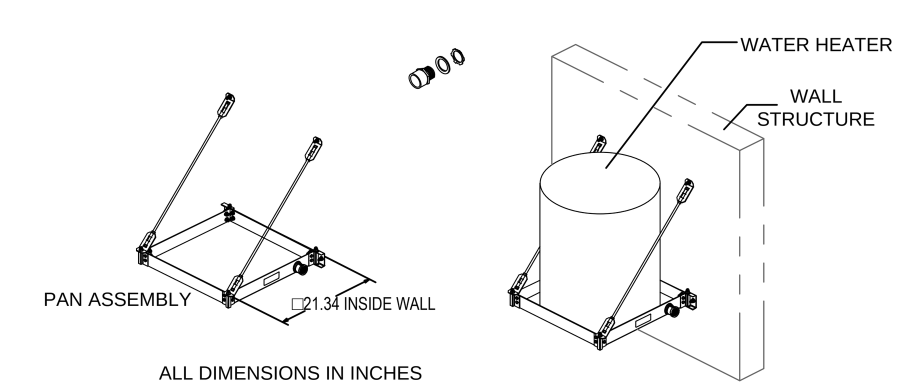
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

P-400

WATER GAS WASTE VENT RISER DIAGRAMS

P3 WATER HEATER PLATFORM — 20

PRODUCT SPECIFICATION DRAWING
QUICKSTAND™ #40-SWHP-W
WALL-MOUNTED EQUIPMENT PLATFORM



ALL DIMENSIONS IN INCHES

*ALL ITEMS SHOWN ARE PROVIDED AND INSTALLED BY GC.

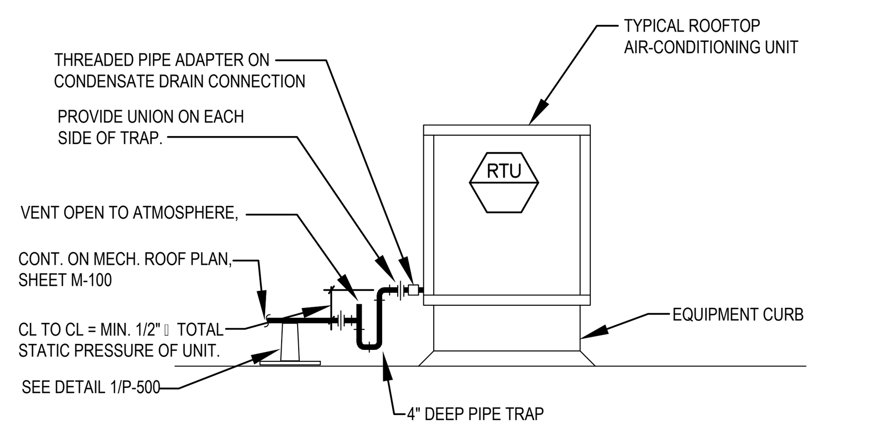
THE WALL MOUNTED EQUIPMENT PLATFORM IS ENGINEERED TO SUPPORT WATER HEATERS UP TO 20 U.S. GALLONS (OR OTHER EQUIPMENT UP TO 375LBS TOTAL WEIGHT) MOUNTED TO A WALL. THIS ITEM ALS SERVES AS A DRAIN PAN.

HOLDRITE
2560 PROGRESS STREET
VISTA, CA 92081
WWW.HOLDRITE.COM
800-321-0316

Scale: NO SCALE P-500

A.C. UNIT CONDENSATE DRAIN — 16

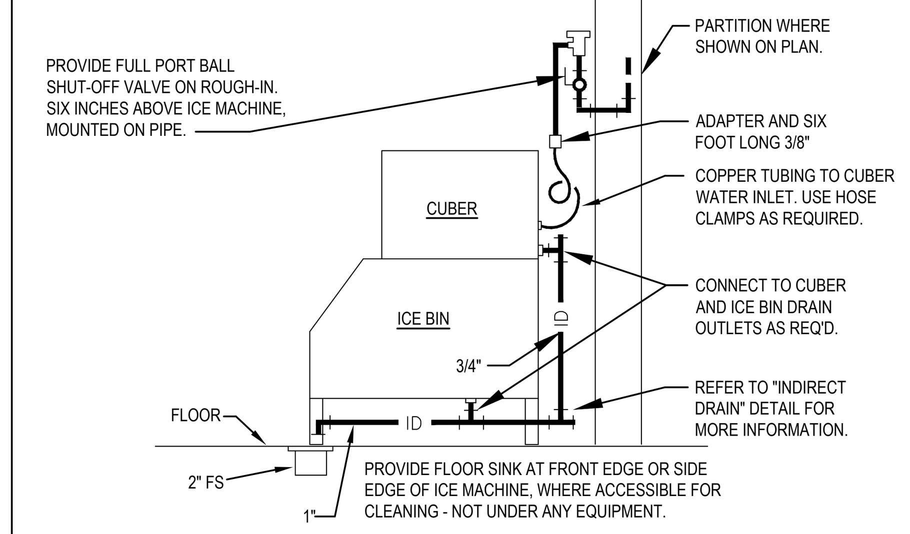
NOTE: IF ROOF DRAIN DOES NOT DRAIN TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO ROOF DRAIN. IF ROOF DRAINS TO PARKING/DRIVE SURFACE, THEN CONDENSATE TO DRAIN TO FLOOR SINK INSIDE STORE.
MIN. TRAP DEPTH 4"; CENTERLINE OUTLET TO CENTERLINE DRAIN 1/2" PLUS UNIT TOTAL STATIC PRESSURE AS A MINIMUM. DISTANCE FROM OUTLET TO TRAP NOT LESS THAN 2 PIPE DIAMETERS.



1.PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. DO NOT PROVIDE TRAP ON UNITS WHICH HAVE AN INTERNAL TRAP.
2.DRAIN LINES TO BE TYPE L COPPER.
3.FOR BLOW-THROUGH TYPE EQUIPMENT, ADJUST PTRAP DEPTH TO 1/2" PLUS TOTAL STATIC PRESSURE OF UNIT.

Scale: NO SCALE P-500

ICE MACHINE CONNECTIONS — 12

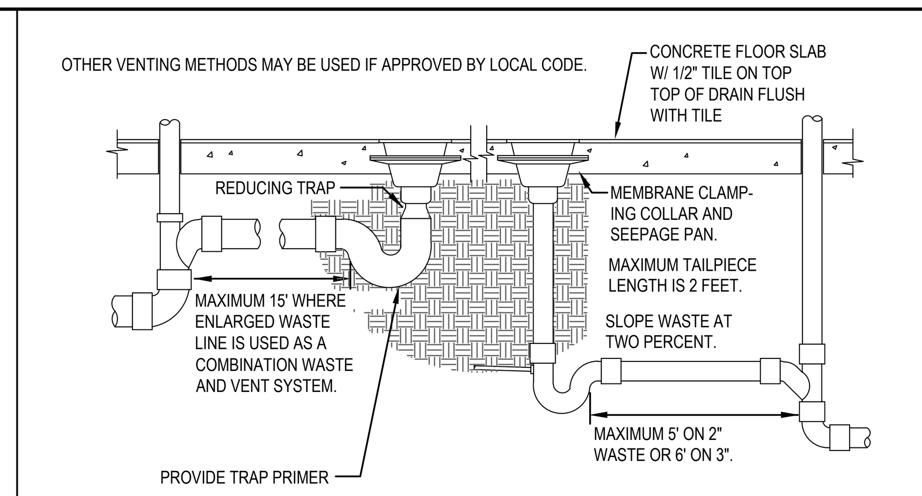


PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

Scale: NO SCALE P-500

FLOOR DRAIN/SINK — 8

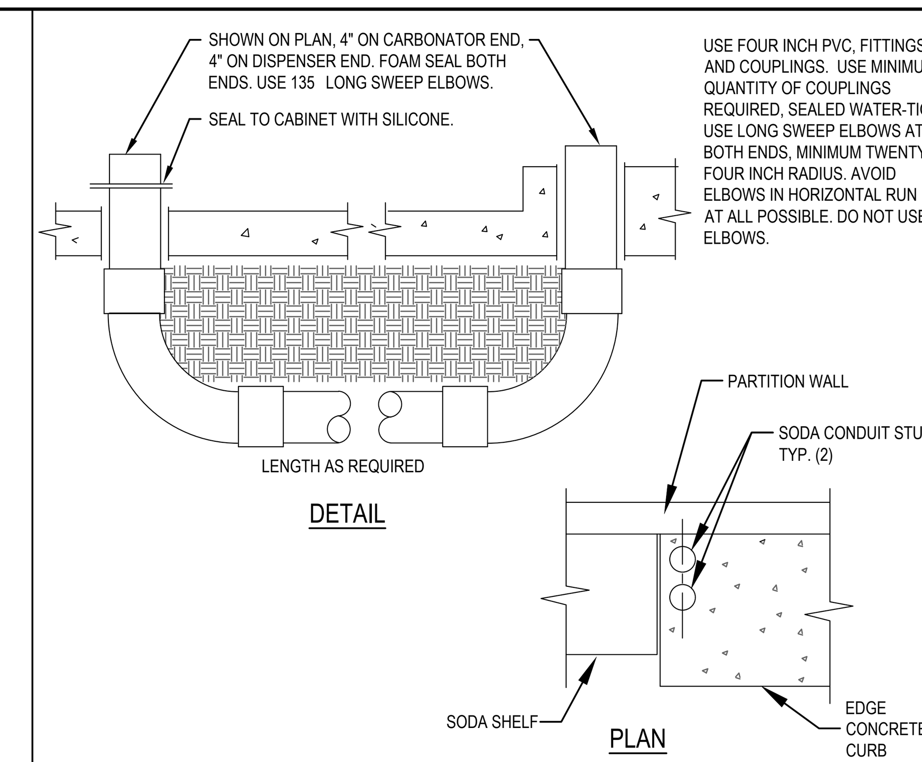
OTHER VENTING METHODS MAY BE USED IF APPROVED BY LOCAL CODE.



LOCATE FLOOR DRAIN/SINK WHERE SHOWN ON DIMENSIONED ARCHITEC- TURAL PLAN. IF FLOOR STRUCTURE INTERFERES WITH FLOOR SINK, MOVE SIDEWAYS IF POSSIBLE, OTHERWISE MOVE BACK. ALWAYS LOCATE WHERE EASILY ACCESSIBLE, BUT NOT IN FOOT TRAFFIC. IF SITUATION IS FLOOR SLAB ON GRADE, PROVIDE BACKFILL PER SPECIFICATIONS. IF CONCRETE FLOOR IS NOT EXISTING, SET DRAIN IN PLACE AND POUR AROUND IT, OR BLOCK OUT AND POUR IN LATER. IF CONCRETE FLOOR IS EXISTING, SAW CUT OR CORE DRILL IT. SET DRAIN BODY IN PLACE AND POUR AROUND IT. THE TOP OF THE FLOOR SINK / DRAIN SHOULD BE SET AT THE SAME ELEVATION AS THE SLAB AND THEN DISHED OUT 1/2 AT THE DRAIN SLOPING TO NOTHING AT THE 2' RADIUS POINT. IF SITUATION IS FLOOR SLAB NOT ON GRADE, REFER TO "FLOOR PENETRATION" DETAIL FOR VENTS. PROVIDE TRAP PRIMER FOR FLOOR DRAINS IN RESTROOMS.

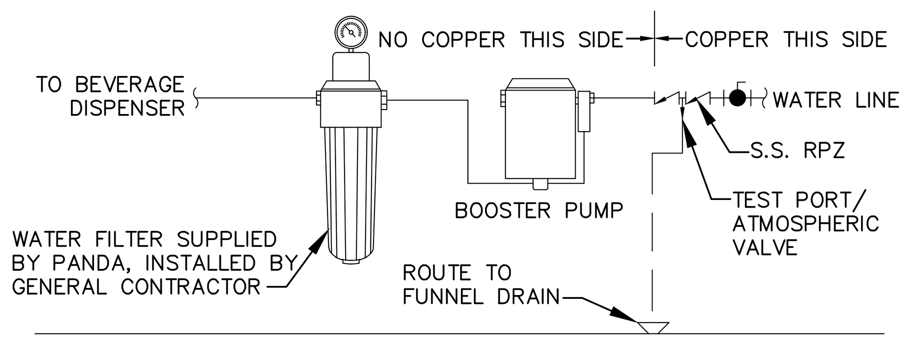
Scale: NO SCALE P-500

BELOW-GROUND SODA CONDUIT — 4



Scale: NO SCALE P-500

BAG-N-BOX DETAIL — 19

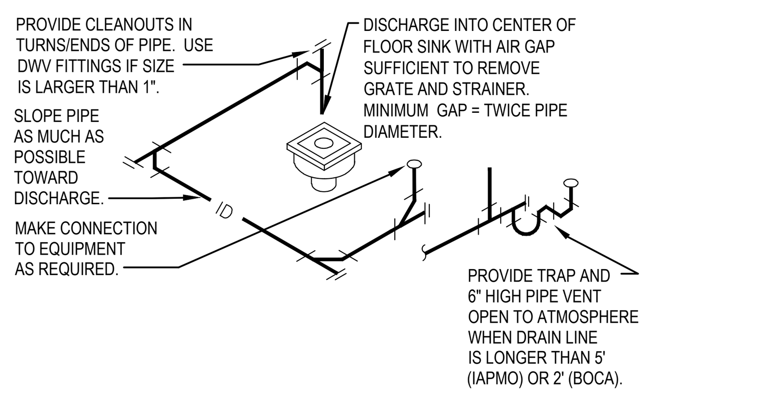


NOTE: CONTRACTOR TO COORDINATE WITH PANDA PROJECT MANAGER ON EXACT CONFIGURATION PRIOR TO CONSTRUCTION

NOTE: ALL PIPING BY SOFT DRINK VENDOR

Scale: NO SCALE P-500

INDIRECT DRAIN — 15

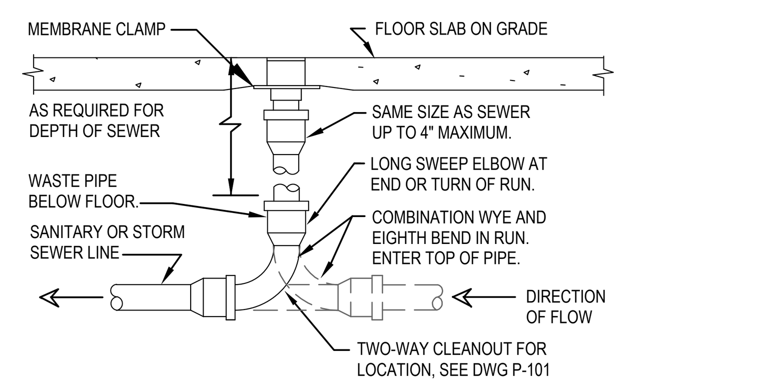


ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

Scale: NO SCALE P-500

FLOOR CLEANOUT — 11

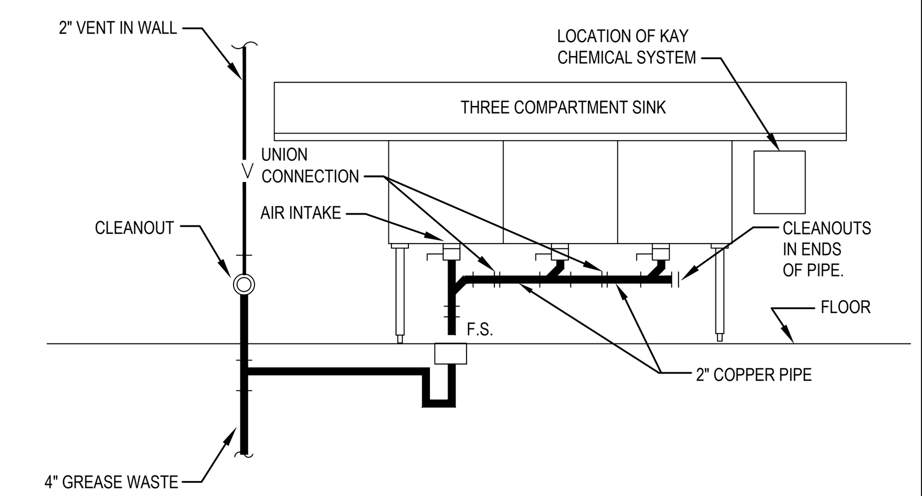
PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE PLASTIC PLUG IN CAST IRON BODY. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.



LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

Scale: NO SCALE P-500

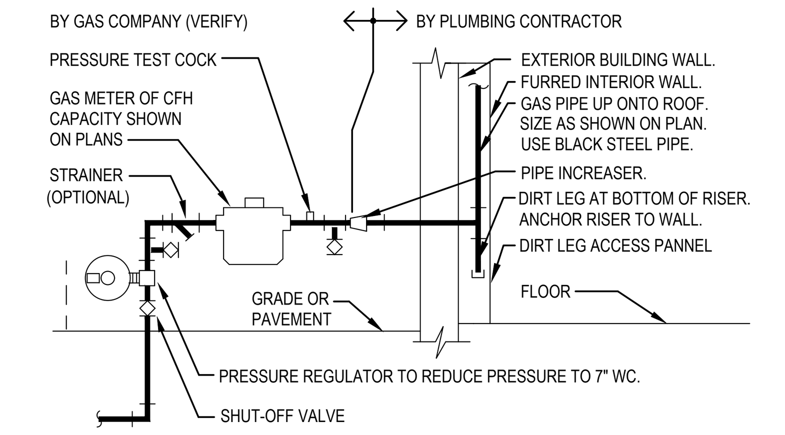
UTILITY/SINK — 7



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. COPPER PIPE, FITTINGS AND CONNECTORS ALL AROUND SINK AND TRAP. CONNECT TRAP FROM CENTER COMPARTMENT.

Scale: NO SCALE P-500

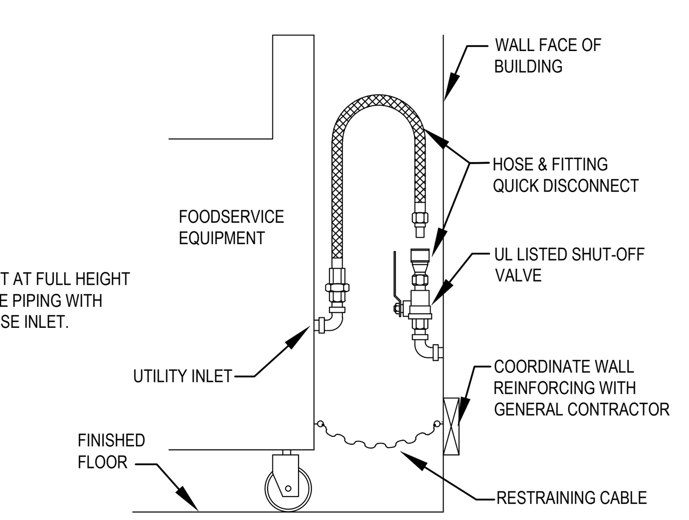
GAS SERVICE — 3



VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS SAFETY YELLOW.

Scale: NO SCALE P-500

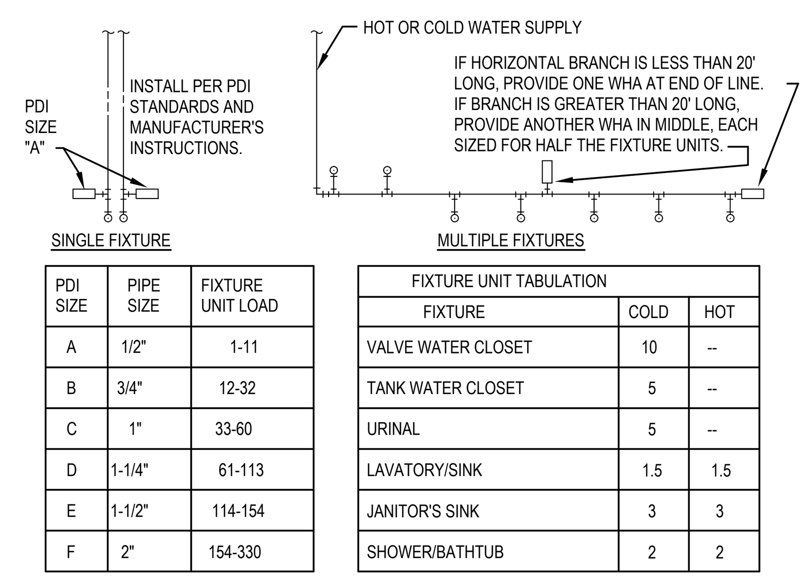
QUICK DISCONNECT — 18



NOTE: IF UTILITY IS NOT AT FULL HEIGHT SHWN, PROVIDE PIPING WITH ELBOWS TO RAISE INLET.

Scale: NO SCALE P-500

WATER HAMMER ARRESTERS — 14



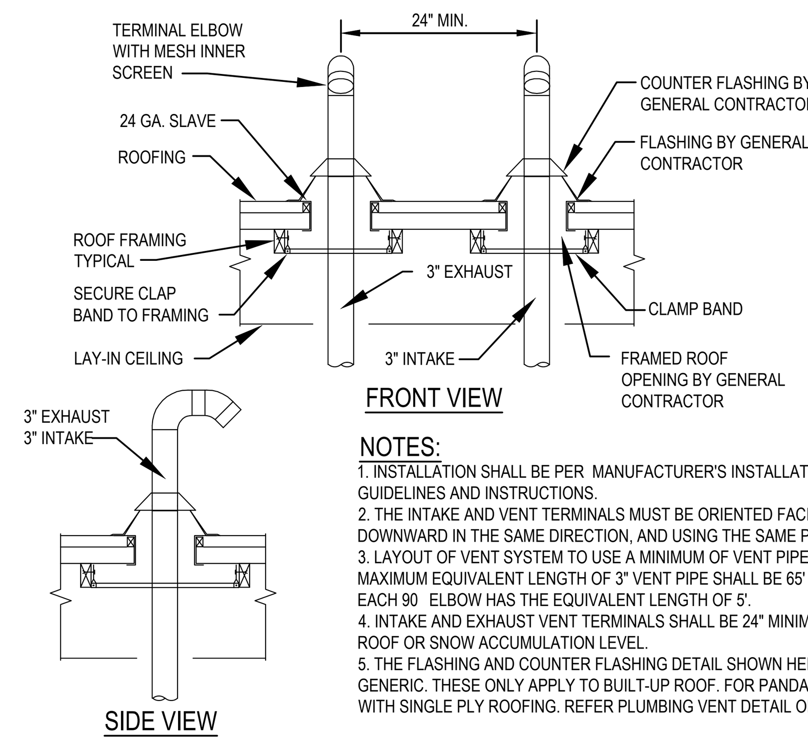
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	–
TANK WATER CLOSET	5	–
URINAL	5	–
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

Scale: NO SCALE P-500

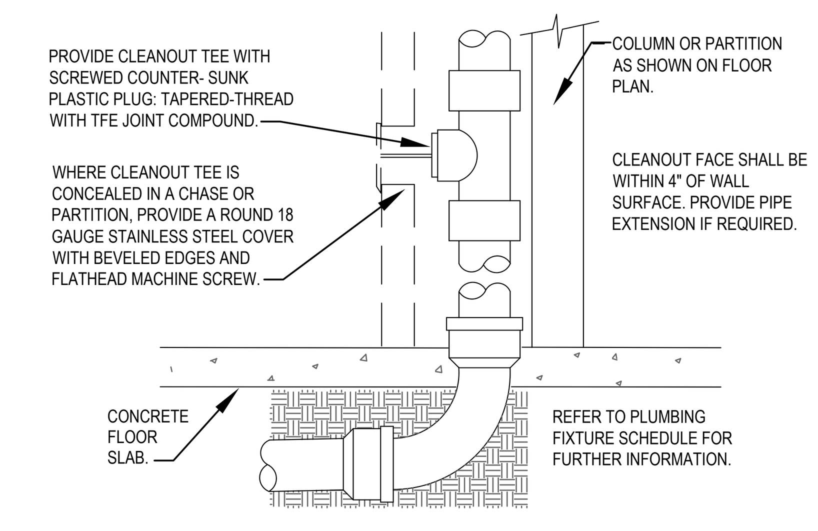
WH DIRECT VENT DETAIL — 10



NOTES:
1. INSTALLATION SHALL BE PER MANUFACTURER'S INSTALLATION GUIDELINES AND INSTRUCTIONS.
2. THE INTAKE AND VENT TERMINALS MUST BE ORIENTED FACING DOWNWARD IN THE SAME DIRECTION, AND USING THE SAME PROCEDURE.
3. LAYOUT OF VENT SYSTEM TO USE A MINIMUM OF VENT PIPE AND ELBOWS. MAXIMUM EQUIVALENT LENGTH OF 3" VENT PIPE SHALL BE 65' TOTAL, AND EACH 90 ELBOW HAS THE EQUIVALENT LENGTH OF 5'.
4. INTAKE AND EXHAUST VENT TERMINALS SHALL BE 24" MINIMUM ABOVE ROOF OR SNOW ACCUMULATION LEVEL.
5. THE FLASHING AND COUNTER FLASHING DETAIL SHOWN HERE ARE GENERIC. THESE ONLY APPLY TO BUILT-UP ROOF. FOR PANDA PROJECT WITH SINGLE PLY ROOFING. REFER PLUMBING VENT DETAIL ON A-107.

Scale: NO SCALE P-500

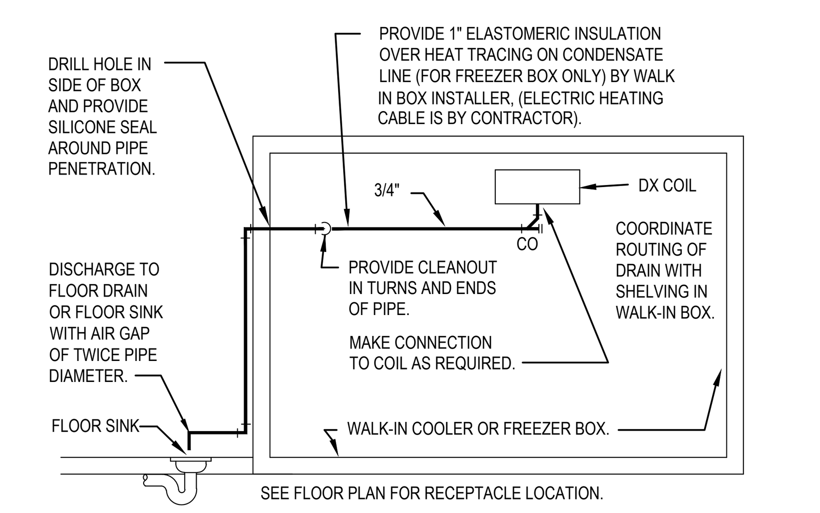
WALL CLEANOUT — 6



PROVIDE WCO WHERE SHOWN ON PLAN. LOCATE ABOVE FIXTURE FLOOD RIM . CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

Scale: NO SCALE P-500

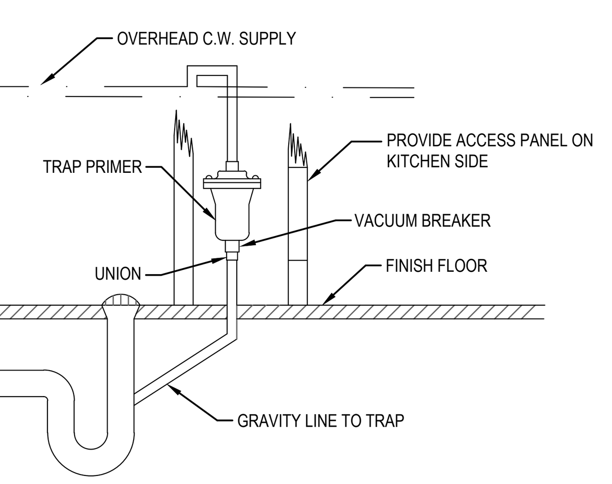
WALK - IN BOX CONDENSATE DRAIN — 2



INSTALL PIPE A MINIMUM OF 76" ABOVE FINISH FLOOR , ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. KEEP DRAIN LINE FROM EVAPORATOR AS HIGH AS POSSIBLE UNDER THE EVAPORATOR BACK TO THE WALL TO MAXIMIZE SHELF SPACE UNDER THE COIL. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

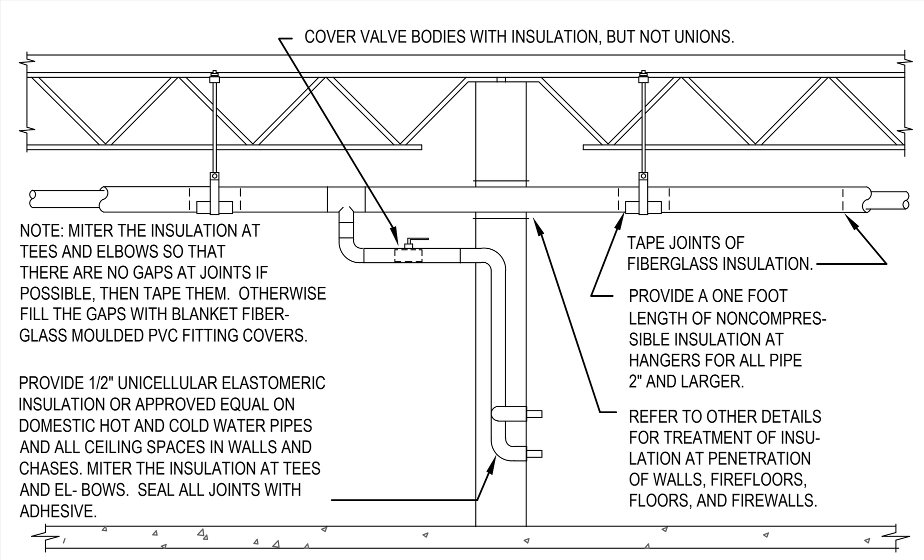
Scale: NO SCALE P-500

PREP. AREA TRAP PRIMER DETAIL — 17



Scale: NO SCALE P-500

PIPE INSULATION — 13



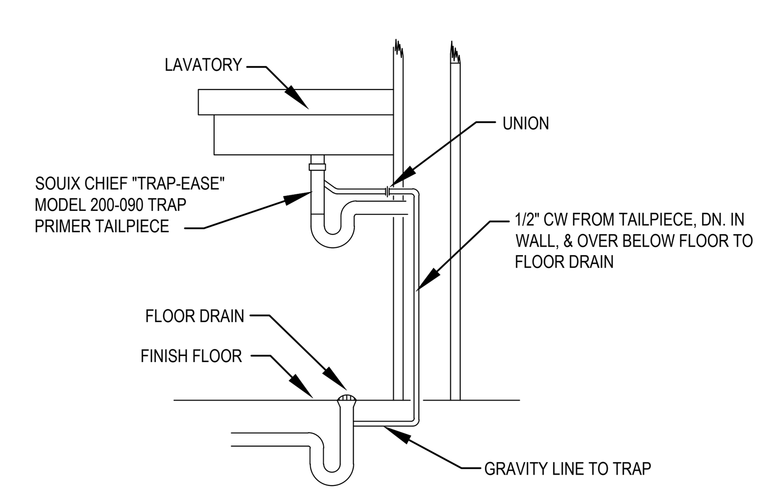
NOTE: MITER THE INSULATION AT TEES AND ELBOWS SO THAT THERE ARE NO GAPS AT JOINTS IF POSSIBLE, THEN TAPE THEM. OTHERWISE FILL THE GAPS WITH BLANKET FIBER- GLASS MOULDED PVC FITTING COVERS.

PROVIDE 1/2" UNICELLULAR ELASTOMERIC INSULATION OR APPROVED EQUAL ON DOMESTIC HOT AND COLD WATER PIPES AND ALL CEILING SPACES IN WALLS AND CHASES. MITER THE INSULATION AT TEES AND EL- BOWS. SEAL ALL JOINTS WITH ADHESIVE.

PROVIDE 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER OR APPROVED EQUAL ON ALL COLD WATER, CONDENSATE, AND STORM DRAIN PIPE UP TO 4". PROVIDE 1" INSULATION OR APPROVED EQUAL ON STORM DRAIN PIPE ABOVE 4" SIZE. PROVIDE 1" FIBER- GLASS INSULATION WITH ALL-SERVICE JACKET OR APPROVED EQUAL ON DOMESTIC HOT WATER PIPING. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

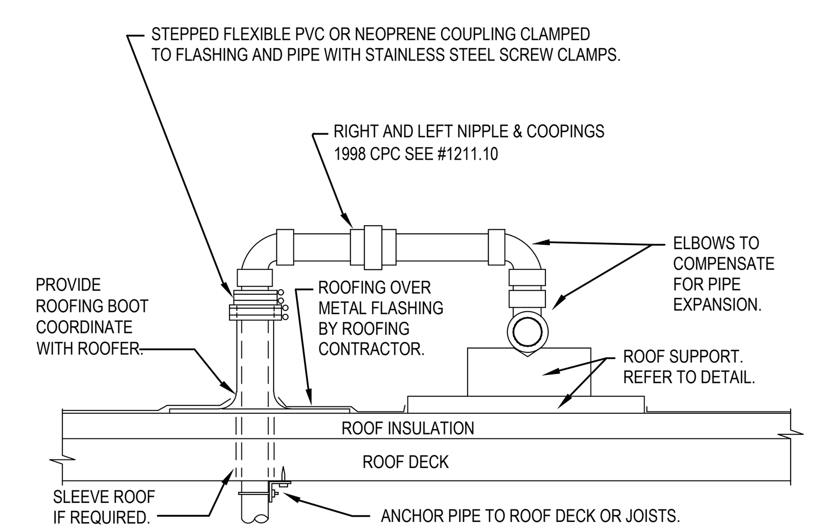
Scale: NO SCALE P-500

RESTROOM TRAP PRIMER DETAIL — 9



Scale: NO SCALE P-500

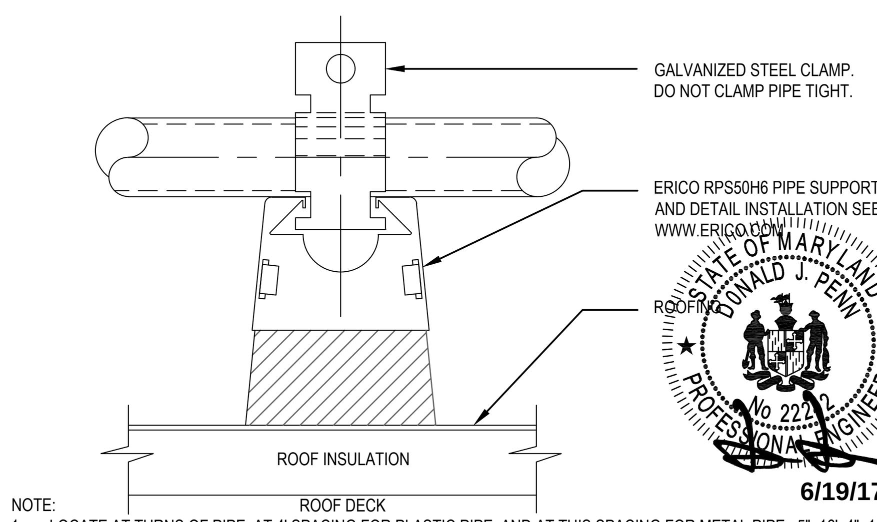
GAS PIPE ROOF PENETRATION — 5



REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

Scale: NO SCALE P-500

ROOF PIPE SUPPORT — 1



NOTE:
1. LOCATE AT TURNS OF PIPE, AT 4' SPACING FOR PLASTIC PIPE, AND AT THIS SPACING FOR METAL PIPE: 5"=16' 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1-1/4"=8' 1"=7' 3/4"=6'. PLACE BASE SHEETS ON ROOFING BEFORE GRAVEL IF ANY. SET BLOCKS FREE ON BASE SHEETS. STACK BLOCKS AND NAIL THEM TOGETHER WHERE REQUIRED TO ELEVATE PIPING.
2. PRIMER COAT AND PAINT EXTERIOR GAS PIPE SAFETY YELLOW COLOR.
3. 18"x18"x1/2" THICK ROOF WALKWAY MATERIAL FOR BASE SHEET. ("CAREY-TRED" OR PER ARCHITECTURAL SPECIFICATIONS.)

Scale: NO SCALE P-500

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

CHECKED BY:
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

d p c e
don penn ■ consulting engineer
1301 SOLANA BLVD., BLDG. 1,
SUITE 1420
WESTLAKE, TEXAS 76262
Phone: 817-410-2858
Fax: 817-251-8411

Professional Certification

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 22242 , Expiration Date: 02/03/19

STATE OF MARYLAND DONALD J. PENN PROFESSIONAL ENGINEER No. 22242
6/19/17

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

P-500

PLUMBING DETAILS

PACKAGED ROOF TOP UNIT SCHEDULE

UNIT SYMBOL		AC 1 (NEW)		
LOCATION		ROOF		
BLOWER	CFM	3,000 (7.5-TON)		
	TSP (IN W.G.)	0.6"		
COOLING	TOTAL (BTU/HR)	82,800		
	SENSIBLE (BTU/HR)	67,900		
	AMBIENT (F)	115		
	COIL ENTERING	67 WB/80 DB		
HEATING (BTU/HR)		125,000 (INPUT) / 103,00 (OUTPUT)		
ELECTRICAL	POWER SUPPLY	460V/3PH/60HZ		
	COMPRESSOR (RLA)	(2) 6.1		
	CONDENSER MOTOR (FLA)	(2) 0.8		
	EVAPORATOR MOTOR (FLA)	2.6		
	MIN. CIRCUIT AMPACITY	19.7, MOCP = 25		
PRICING ORDERING AND DELIVERY CONTACT: THERESA DAWSON PHONE: 949-309-9815 E-MAIL: Theresa.Dawson@carrier.utc.com		BY CARRIER 48HCDD08B2M5DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1218 LBS APPROX SEER=- EER=12.0, AFUE=82%		

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT CARRIER REPRESENTATIVE ABOVE.
- THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND SHALL ACCESSORIES "CARRIER" COMFORT PRO 33CS PROVIDE REMOTE SENSOR FOR EACH THERMOSTAT
- DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED, CSFM CERTIFIED, 24 VAC, BY EDWARDS, DH HOUSING WITH 1551F SENSOR

NOTE:
1. 1.9 AMPS (5 TON) AND 3.8 AMPS (7.5 AND 10 TON) ECONOMIZER INCLUDED IN ELECTRICAL TOTAL MCA PER MANUFACTURER'S LITERATURE.
2. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB.
3. FACTORY OPTIONS SHALL INCLUDE HAIL GUARD PROTECTION FOR ALL UNIT.
4. FACTORY OPTIONS SHALL INCLUDE FACTORY INSTALLED DISCONNECTS AND CONVENIENCE OUTLETS (FIELD POWERED REFER TO ELECTRICAL DRAWING).
5. PROVIDE THRU THE BASE ELECTRICAL CONNECTION KIT #CRBTMPWR002A01 FOR ALL UNITS.

EXHAUST FAN SCHEDULE

FAN NO.		EF 1	EF 2	
LOCATION		ROOF	ROOF	
AREA SERVED		KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	
FAN DUTY		AIR EXHAUST	AIR EXHAUST	
FAN TYPE		CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	
FAN ARRANGEMENT		UPBLAST	UPBLAST	
MIN. WHEEL DIAMETER		-	-	
PERFORMANCE	C.F.M.	3,375	3,375	
	T.S.P.	1.25"	1.25"	
	B.H.P.	1.35	1.35	
	FAN R.P.M.	1212	1212	
MOTOR	MOTOR H.P.	2.0	2.0	
	ELEC. CHARACTERISTICS	460V/3PH/60HZ	460V/3PH/60HZ	
	MOTOR R.P.M.	1725	1725	
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	
ACCESSORIES		1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	
MANUFACTURER		CAPTIVEAIRE MODEL: NCA16FA (UL762) WT. 184 LBS	CAPTIVEAIRE MODEL: NCA16FA (UL762) WT. 184 LBS	

HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS : FOLLOWS:

THERMOSTAT: CARRIER COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS. (THERMOSTAT WITH AUTOMATIC SETBACK WHEN LIGHT ARE TURNED DOWN, MANUAL OVERRIDE.)

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):
- COOLING OCCUPIED: 75 DEGREES F.
- COOLING UNOCCUPIED: 85 DEGREES F.
- HEATING OCCUPIED: 68 DEGREES F.
- HEATING UNOCCUPIED: 50 DEGREES F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

AIR CURTAIN SCHEDULE

EQUIP.	MFR/MODEL	DESCRIPTION
M8A	YOSHIMASA YMAC36	AIR CURTAIN (DOOR). 120/1/60, 3.0 AMP WEIGHT 30 LBS
M9A	QUICK-SERV CF-25	AIR CURTAIN (WINDOW NON-HEATED). 120/1/60, 20 AMP WEIGHT 30 LBS

NOTES:
INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

MECHANICAL SPECIFICATIONS

1. WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
2. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
3. CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
5. DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525. UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
6. SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
7. GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE FABRICATED BY WELDED JOINT CONSTRUCTION OF 16 GAUGE WELDED STEEL OR 18 GAUGE STAINLESS STEEL. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS PER CODE. ALL ELBOWS SHALL BE LONG RADIUS. GREASE DUCT SHALL BE INSTALLED EITHER IN A RATED ENCLOSURE PROVIDED BY THE GENERAL CONTRACTOR OR WRAPPED WITH FIREMASTER GREASE DUCT WRAP.
8. DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIM/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
9. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
10. PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
11. ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
12. AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
13. KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
14. TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMS, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	LOCATION & SERVICE AREA	TYPE	COOLING	BLOWER CFM	BLOWER ESP	BLOWER MOTOR	MFR. & MODEL
MA 1 *	ROOF-TOP FOR KITCHEN HOOD AIR MAKE-UP	PACKAGED MAKE-UP AIR DOWN DISCHARGE	MINIMUM 3 COOLER PADS AND WATER PUMP	5,400	0.75"	5 HP @ 460V/3Φ/60HZ	BY CAPTIVEAIRE MODEL: A3-D.500-G18-MPU WT. 2136 LBS

* FOR MAKE-UP AIR UNIT POSITION CONTROL, SEE CAPTIVE AIRE CONTROL DIAGRAM ON M-4.2.

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	ACTUAL AIR DENSITY?	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
3	YES	342,313	314,928	54 DEG F	7 in. w.c. - 14 in. w.c.	NATURAL

CONDENSER DETAILS

FAN UNIT NO.	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
3	A3-D.500-G18-MPU	1	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
		2	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14

DIFFUSER & GRILLE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS
A	PRICE	PDMC3-R6	PERFORATED MODULAR CORE	B-12 WHITE	14"Ø	24" x 24"	LAY-IN T-BAR	< 30	ROUND NECK BUTTERFLY VOLUME DAMPER
B	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	12"Ø	16" x 16"	SURFACE	< 30	ROUND NECK BUTTERFLY VOLUME DAMPER
C	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	9"x9"	12" x 12"	SURFACE	< 30	SQ. TO RD. DUCT ADAPTER FOR DIA. AS SHOWN, OPPOSED BLADE DAMPER
D	PRICE	PDDR3	PERFORATED RETURN	B-12 WHITE	22"X22"	24" x 24"	LAY-IN T-BAR	< 35	
E	PRICE	PDDR3-AFI	PERFORATED RETURN	B-12 WHITE	10" DIA.	12" x 12"	SURFACE		WITH VOLUME CONTROLLER
F	PRICE	PDDR3	PERFORATED RETURN	PA-28 BRONZE	22"X22"	24" x 24"	LAY-IN T-BAR	< 35	
G	PRICE	AS210	LINEAR SLOT	B-12 WHITE	2@6" OVAL	1 SLOT	SURFACE	< 35	SEE PLAN FOR LENGTH, PROVIDE WITH FACTORY PLENUM
H	PRICE	PDMC3-R6	PERFORATED MODULAR CORE	PA-28 BRONZE	14" X 14"	24" x 24"	LAY-IN T-BAR	< 30	SQ. TO RD. DUCT ADAPTER FOR DIA. AS SHOWN
J	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	8"Ø	12" x 12"	LAY-IN T-BAR	< 30	OPPOSED BLADE DAMPER

NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES.
HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC.
PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL ronc@thermairsystems.com

OSA VENTILATION CALCULATION

AREA TYPE	TOTAL AREA (FT^2)	OCCUPANCY DENSITY ($PEOPLE/FT^2$)	TOTAL OCCUPANTS	OSA REQ.'D PER SQ.FT. (CFM)	OSA REQ.'D PER PERSON (CFM)	OSA REQ.'D FOR THIS OCCUPANCY CLASSIFICATION (CFM)
STORAGE	105	-	-	0.15	-	16
KITCHEN	963	20/1,000	20	0.15	15	300
		70/1,000				
				TOTAL OSA REQUIRED FOR THIS TENANT (CFM)		316
				TOTAL OSA PROVIDED (CFM)		500

* VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.

AIR BALANCE SCHEDULE

ITEM	SUPPLY AIR	RETURN AIR	MAKE-UP AIR	EXHAUST
MA-1	0	0	+5,400	0
EF-1, EF-2	0	0	0	-3,375 x 2
AC-1	+3,000	-2,325	675	0
MAKE-AIR FROM COMMON AREA (10% OF EXHAUST AIR)			675	0
TOTAL	+3,000	-2,325	+7,520	-6,750

BUILDING PRESSURE = 0 CFM

BALANCE TOLERANCES AS FOLLOWS:
- KITCHEN EXHAUST HOODS: 0% TO +10%
- OUTDOOR AIR: 0% TO +10%
- SUPPLY & RETURN DIFFUSERS: ±10%
- TOILET EXHAUST: ±10%

BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS.
KITCHEN EXHAUST FANS SHALL BE BALANCED WITH A 4" ANEMOMETER

NOTES:

1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
2. FOR WIRING DIAGRAM 5/M-501

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	DN	DOWN
☒ , ◸ , ◿		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)
		FLEXIBLE DUCT
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	MIN	MINIMUM
	OSA	OUTSIDE AIR
Φ		ROUND RIGID DUCTWORK
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
1		CONSTRUCTION NOTES
EF 1		MECHANICAL EQUIPMENT DESIGNATION
Ⓢ		SMOKE DETECTOR
Ⓣ 1		THERMOSTAT / UNIT
Ⓡ 1		REMOTE SENIOR / UNIT

STATE OF MARYLAND DONALD J. PENN PROFESSIONAL ENGINEER
6/19/17

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

DRAWN BY:

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Professional Certification

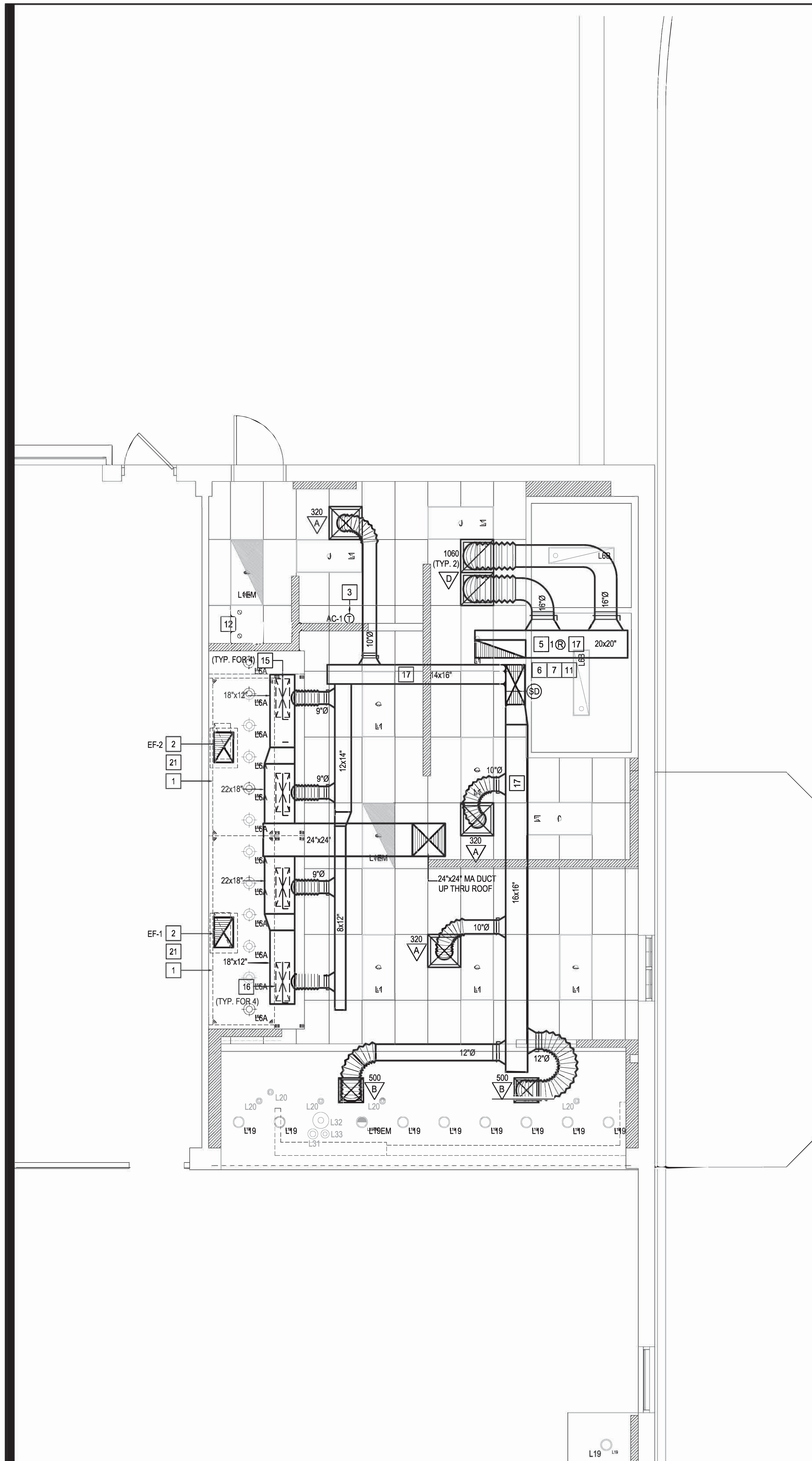
I hereby certify that these documents were prepared and approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 22242, Expiration Date: 02/03/19

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

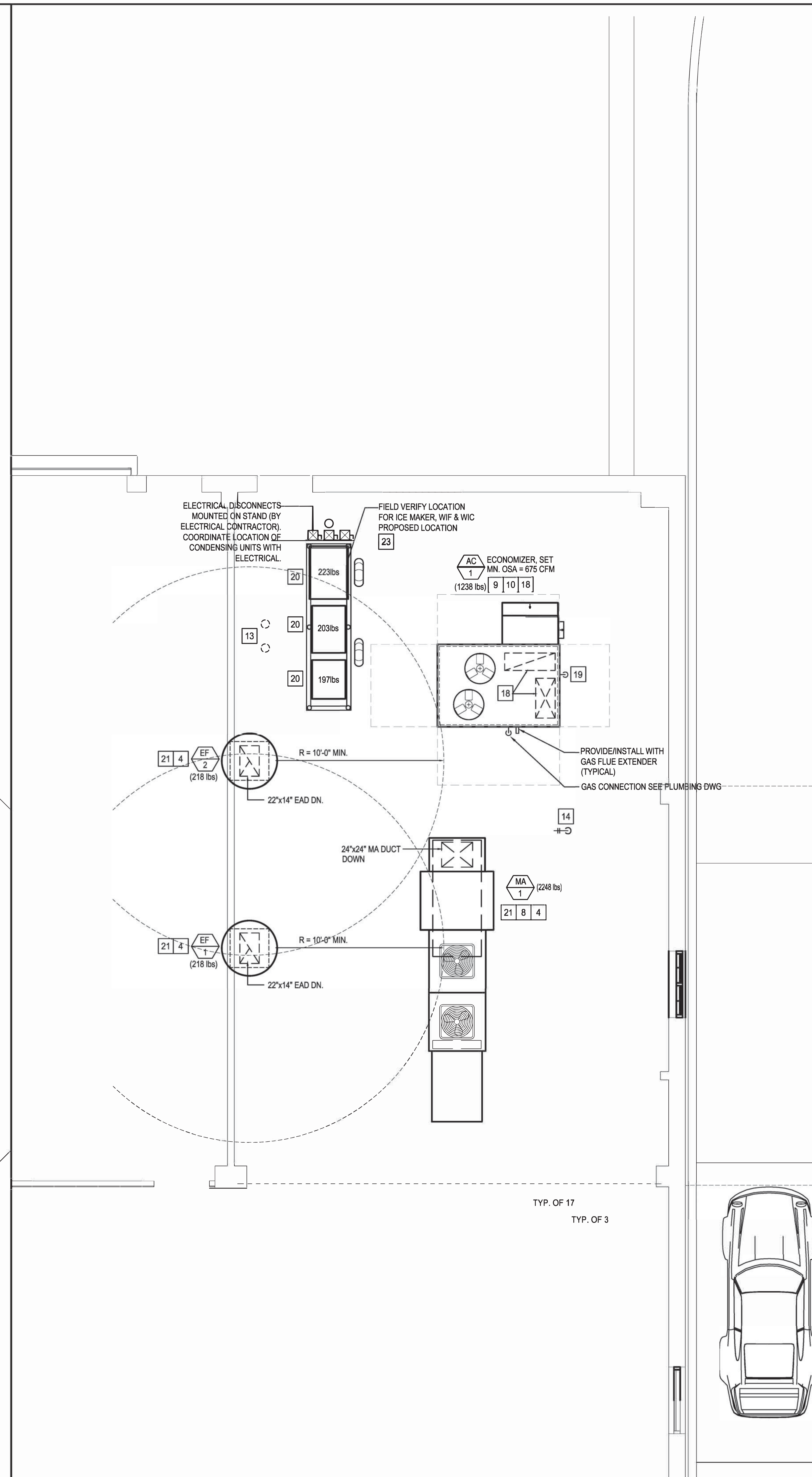
M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES



HVAC FLOOR PLAN 1

Scale:1/4"=1'-0" M-100



HVAC ROOF PLAN 2

Scale:1/4"=1'-0" M-100

MECHANICAL KEY NOTES:

1. INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,375 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
2. PROVIDE AND INSTALL GREASE EXHAUST DUCT, ROUTE ON TOP OF MAKE UP AIR, FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN, TRANSITION TO 22"x14" BETWEEN ROOF JOIST, CONNECT TO EXHAUST HOOD COLLAR, FIELD VERIFY.WRAP WITH TWO LAYERS FIRE MASTER FASTWRAP+ OR EQUAL. FABRICATE DUCT FROM 16 GAUGE STEEL WITH WELDED SEAM CONSTRUCTION SEAL TO THE ROOF CURB WITH FIRE CAULKING . SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS. TRANSITION DUCT TO CURB AND FAN INLET SIZE. TRANSITION TO 26X12" DUCT COLLAR SIZE.
3. MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
4. INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
6. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC 2007, SEC. 609, OR AT RETURN AIR DUCT PER IMC 2006, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
7. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.
8. FOR CONDENSATE DRAIN LINE, GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
9. PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.
10. FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
11. SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
12. PVC VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
13. WATER HEATER VENT AND COMBUSTION AIR INTAKE PIPES. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
14. ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
15. 9" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 259 CFM.
16. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM. 1,350 CFM
17. PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK.
18. FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
19. FOR CONDENSATE DRAIN LINE OR GAS CONNECTION, SEE PLUMBING DRAWINGS.
20. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY REFRIGERANT LINES AND INSULATION FROM CONDENSING UNITS TO SCHEDULED EQUIPMENT. ONCE INSTALLED, CONTRACTOR IS RESPONSIBLE FOR ALL START-UP, TESTING AND CALIBRATION OF EQUIPMENT.
21. PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
22. NONE
23. PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS, FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, REACH-IN REFRIGERATOR AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108).

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.

6/19/17

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1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

M-100

H.V.A.C. FLOOR PLAN & ROOF PLAN

HOOD INFORMATION – Job#2842504

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM: TOTAL EXH. CFM	RISER(S): WIDTH	RISER(S): LENG.	RISER(S): HEIGHT	RISER(S): DIA.	RISER(S): CFM	RISER(S): S.P.	MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.: END TO END	HOOD CONFIG.: ROW
1		4824 ND-2-ACPSP-F	11' 3.00"	600 Deg.	3375	12"	26"	4"		3375	-0.527"	2700	518	430 SS Where Exposed	LEFT	ALONE
2		4824 ND-2-ACPSP-F	11' 3.00"	600 Deg.	3375	12"	26"	4"		3375	-0.527"	2700	518	430 SS Where Exposed	RIGHT	ALONE

PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2
AC-PSP Wall (Canada) - CA Patent 2820509
AC-PSP Island (Canada) - CA Patent 2520330

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S): TYPE	FILTER(S): QTY.	FILTER(S): HEIGHT	FILTER(S): LENGTH	FILTER(S): EFFICIENCY @ 9 MICRONS	LIGHT(S): QTY.	LIGHT(S): TYPE	LIGHT(S): WIRE GUARD	UTILITY CABINET(S): LOCATION	UTILITY CABINET(S): SIZE	FIRE SYSTEM: TYPE	FIRE SYSTEM: SIZE	ELECTRICAL: MODEL #	SWITCHES: QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		SS Baffle with Handles	8	20"	16"	30%	6	L55 Series E26	NO	Wall Mnt	12"x54"x24"	Ansul R102	3.0/3.0/3.0	SC-321110MA-SEP	1 Light 1 Fan	YES	562 LBS
2		SS Baffle with Handles	8	20"	16"	30%	6	L55 Series E26	NO							YES	561 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		LEFT END STANDOFF 3" Wide 48" Long
2		RIGHT END STANDOFF 3" Wide 48" Long

PERFORATED SUPPLY PLENUM(S)

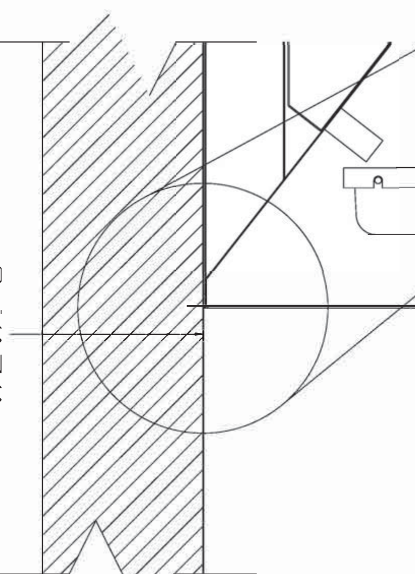
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S): WIDTH	RISER(S): LENG.	RISER(S): DIA.	RISER(S): CFM	RISER(S): S.P.
1		Front	138"	22"	6"	MUA	10"	28"		1350	0.602"
						MUA	10"	28"		1350	0.602"
						AC			8"	259	0.160"
						AC			8"	259	0.160"
2		Front	138"	22"	6"	MUA	10"	28"		1350	0.602"
						MUA	10"	28"		1350	0.602"
						AC			8"	259	0.145"
						AC			8"	259	0.145"

NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

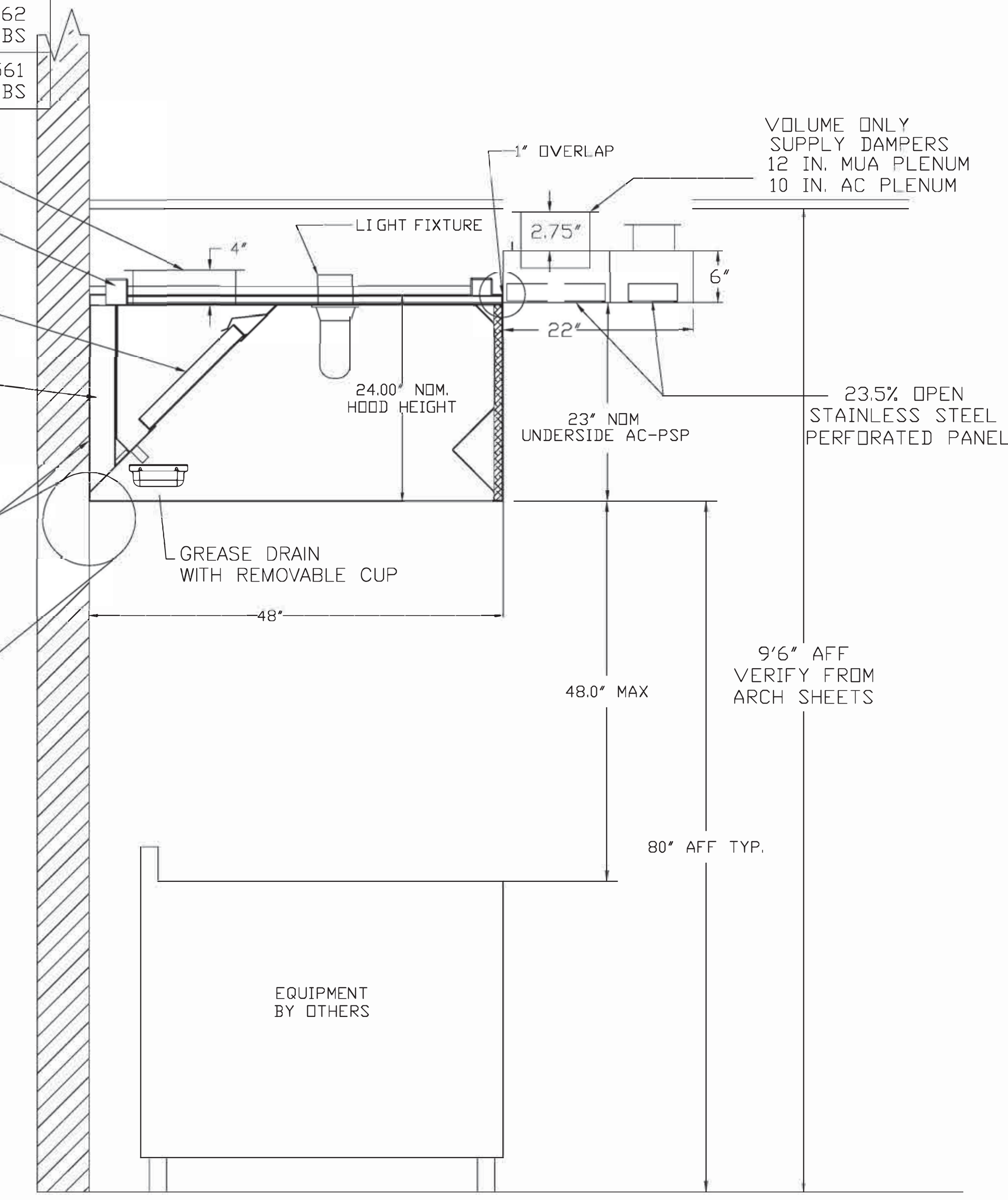
ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

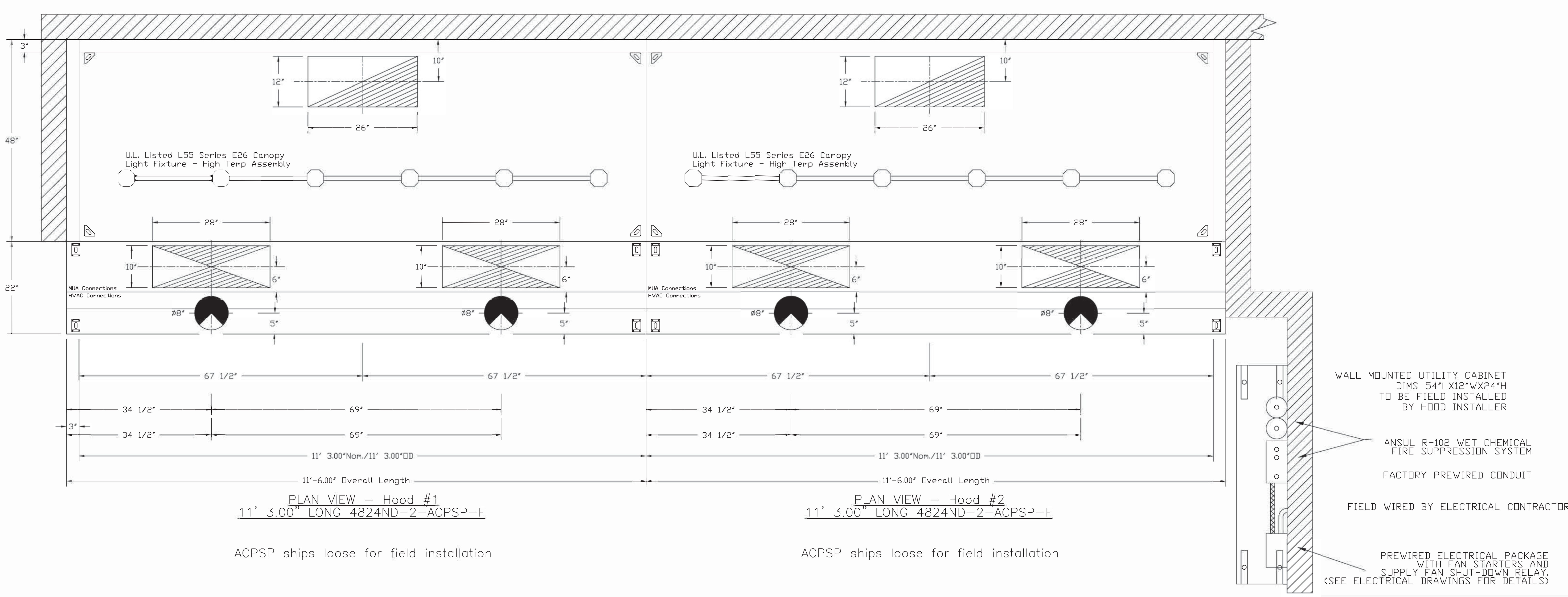
FOR QUESTIONS CALL THE CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE
STONE MILL DESIGN CENTER
2915 RED HILL AVE, SUITE C106
COSTA MESA, CA 92626
TEL: 800-967-7701 EMAIL: REG86@CAPTIVEAIRE.COM



EXPANDED VIEW OF ND2 SECTION



SECTION VIEW – MODEL 4824ND-2

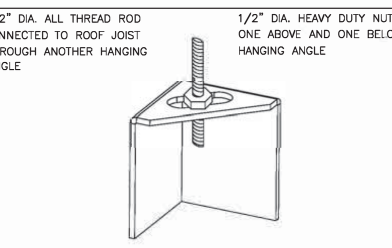


PLAN VIEW – Hood #1
11' 3.00" LONG 4824ND-2-ACPSP-F

ACPSP ships loose for field installation

PLAN VIEW – Hood #2
11' 3.00" LONG 4824ND-2-ACPSP-F

ACPSP ships loose for field installation

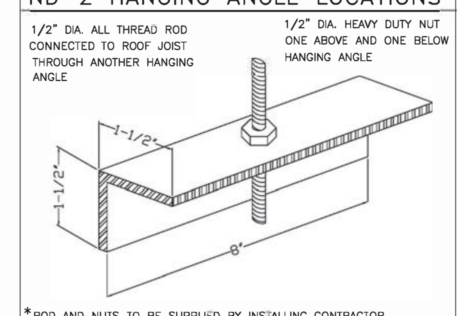


*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HOOD STYLE ND-2		DIM FROM REAR	DIM FROM FRONT (24"/30"H)	DIM FROM LEFT/RIGHT (24"/30"H)
CANOPY	EXHAUST ONLY	4.166"	2.246"	2.25"
CANOPY	WITH MUA	4.166"	2.246"	2.25"
BACKSHELF	EXHAUST ONLY	4.166"	2.246"	2.25"
BACKSHELF	WITH MUA	4.166"	2.246"	2.25"
CONDENSATE		2.246"	2.246"	2.25"

ND-2 HANGING ANGLE LOCATIONS



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND HANGING ANGLE DETAIL

HOOD STYLE ND		DIM FROM REAR	DIM FROM FRONT (24"/30"H)	DIM FROM LEFT/RIGHT (24"/30"H)
CANOPY	EXHAUST ONLY	5.00"	10.5" / 5"	5.00"
CANOPY	WITH MUA	5.00"	10.5" / 5"	5.00"

ND HANGING ANGLE LOCATIONS

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	3" INSULATED STANDOFF

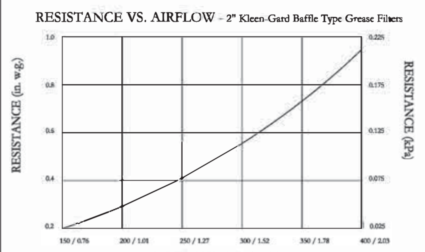
CLEARANCE TO COMBUSTIBLES

GENERAL NOTES :

1. ELECTRICAL HOOK-UP TO CAS MOTOR CONTROLS (MOTOR STARTERS, FAN SWITCHES, FAN DISCONNECTS, RELAYS, ETC.) BY OTHERS.
2. FIRE CHASE BY OTHERS, IF REQUIRED.
3. ALL PHASES OF INSTALLATION SHALL COMPLY WITH NFPA 96.
4. WRITTEN MEASUREMENTS HAVE PRECEDENCE OVER SCALE.
5. PROVIDE CLEANOUTS IN EXHAUST AIR DUCTS AS INDICATED TO ALLOW CLEANING AT ALL BENDS AND HORIZONTAL RUNS.
6. EXHAUST DUCT TO BE 16 GA. GAV STEEL ALL SEAMS AND JOINTS TO HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD.
7. FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE OUTLET TO ADJACENT BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE PER NFPA96
8. HORIZONTAL EXHAUST DUCT TO SLOPE NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT LESS THAN 75' LONG. 1" PER FOOT SLOPE FOR DUCT LONGER THAN 75'
9. HOOD TO OVERHANG COOKING EQUIPMENT 6" ON ALL OPEN SIDES.
10. EXHAUST DUCT TO BE PROTECTED FROM COMBUSTIBLES PER NFPA96 AND LOCAL CODE.
11. BUILDING PRESSURE SHALL NOT EXCEED 0.02" WATER COLUMN AT EXTERIOR DOORS.
12. KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM.

GENERAL NOTES

RESISTANCE VS. AIRFLOW - 2" Kleen-Gard Baffle Type Grease Filters



RESEARCH PRODUCTS CORPORATION

Kleen-Gard Baffle Type Filters are UL Classified Grease Extracting Filters.
MEA # 168-78-M Aluminum
MEA # 247-96-E Stainless Steel

FILTER DETAIL

REVISIONS

	DESCRIPTION	DATE:
1	3 PHS 460V	04.24.2017

CAPTIVEAIRE
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Panda Express - Patuxent River MD (B1-17-D5167)
22268 Cedar Point Road, Building
PATUXENT RIVER, MD, 20670

DATE: 11/22/2016
DWG.#: 2842504
DRAWN BY: AJP-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
6/19/17

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

DRAWN BY:

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

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PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

M-400

HOOD DETAIL PLAN

EXHAUST FAN INFORMATION – Job#2842504

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		NCA16FA	3375	1.250	1212	2.000	1.3500	3	460	2.6	184	17.3
2		NCA16FA	3375	1.250	1212	2.000	1.3500	3	460	2.6	184	17.3

CONDENSER DETAILS

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
3		A3-D.500-G18-MPU	1	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14
			2	5	460	3 PHASE	60 Hz	10.5 Amps	8.5 Amps	15 Amps	14 AWG	14

MUA FAN INFORMATION – Job#2842504

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL ENTERING WB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LEAVING WB TEMP.	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
3		A3-D.500-G18-MPU	G18-PB	A3-D.500	5400	0.750	904	5.000	3.6010	3	460	6.8	90.0°F	76.0°F	78.6°F	70.7°F	118.1 MBH	66.4 MBH	51.7 MBH	2142	17.1	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
3		342313	314928	54 deg F	7 in. w.c. – 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. – Descr.)
1		1 – Grease Box
		1 – Upblast Fan Wheel Access Port
2		1 – Grease Box
		1 – Upblast Fan Wheel Access Port
3		1 – AC Interlock Relay – 24VAC Coil
		1 – Motorized Backdraft Damper for A3-D Housing
		1 – Low Fire Start
		1 – Inlet Pressure Gauge, 0-35"
		1 – Manifold Pressure Gauge, -5 to 15" wc
		1 – Full Crating For Commercial Heater
		1 – Cooling Thermostat and Relay (Not req for evap)
		1 – 10 Ton 2 Circuit (5/5) Modular Packaged Cooling Option for Size 3 MUA (3,600 to 6,000 cfm), 460V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation.
		1 – Downturn Plenum for Size 3 DX Coil Module

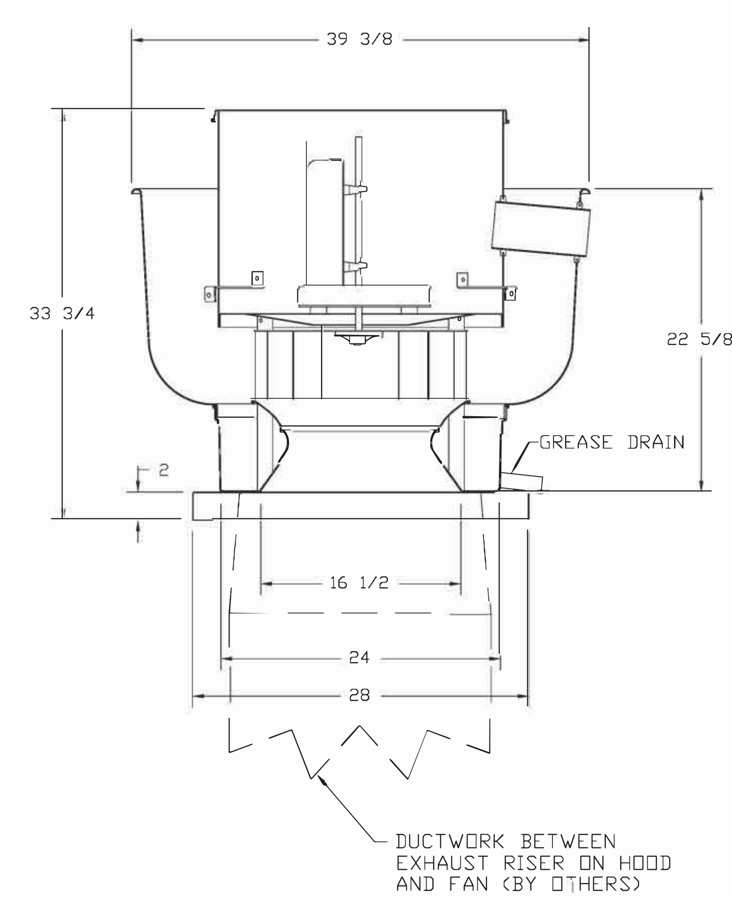
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						
3							YES	

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented Hinged
2	# 2	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented Hinged
3	# 3	82 LBS	Curb	35.000"W x 84.000"L x 20.000"H Insulated
	# 3		Rail	6.000"W x 35.000"L x 20.000"H

FANS #1, #2 – NCA16FA EXHAUST FAN



FEATURES:

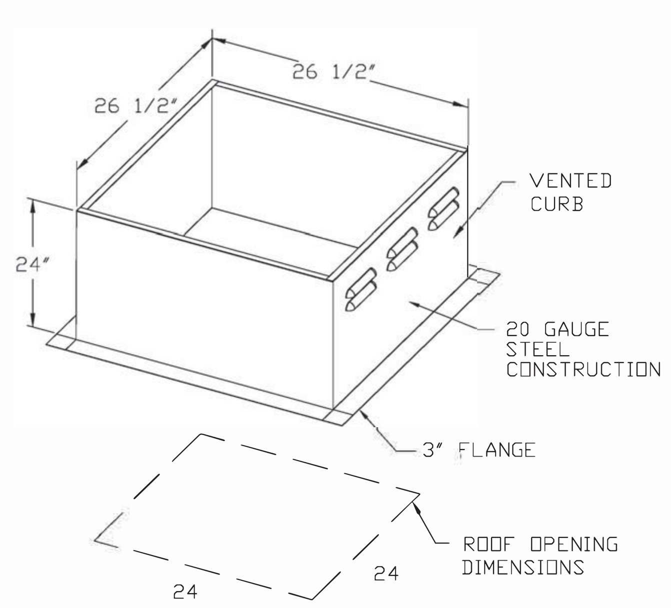
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

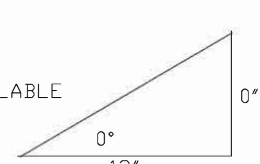
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX
UPBLAST FAN WHEEL ACCESS PORT



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

6/19/17

REVISIONS

	DESCRIPTION	DATE:
1	3 PHS 460V	04.24.2017

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Panda Express – Patuxent River MD (B1-17-D5167)
22268 Cedar Point Road, Building ..., Navy Base
PATUXENT RIVER, MD, 20670

DATE: 11/22/2016

DWG.#: 2842504

DRAWN BY: AJP-86

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

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CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

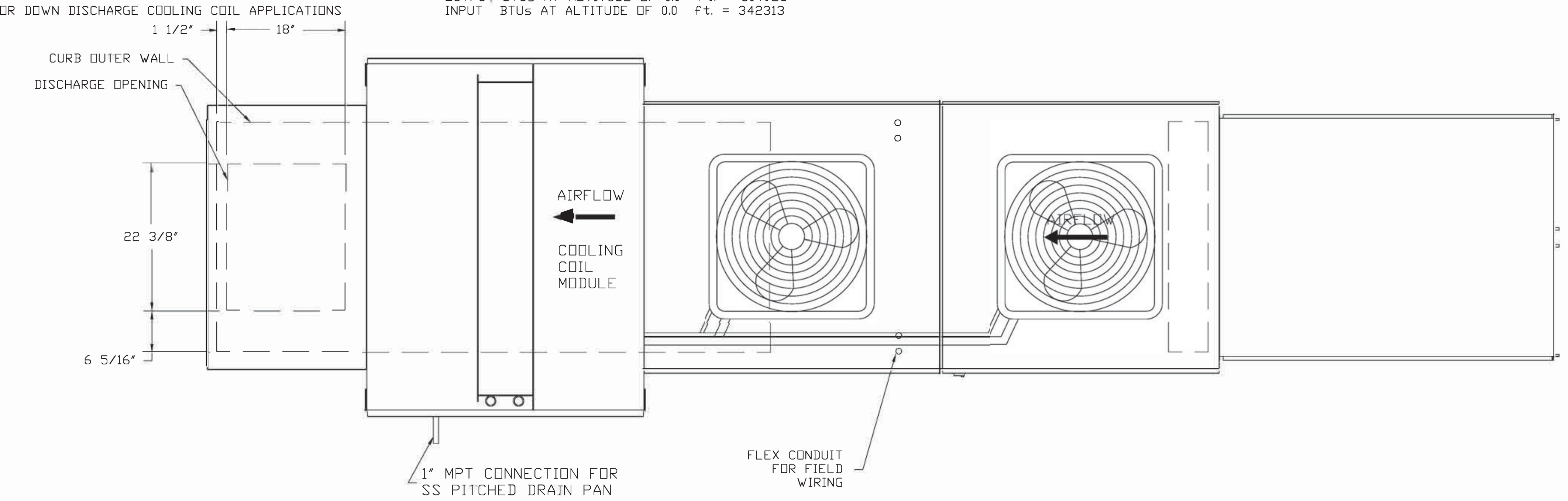
M-401

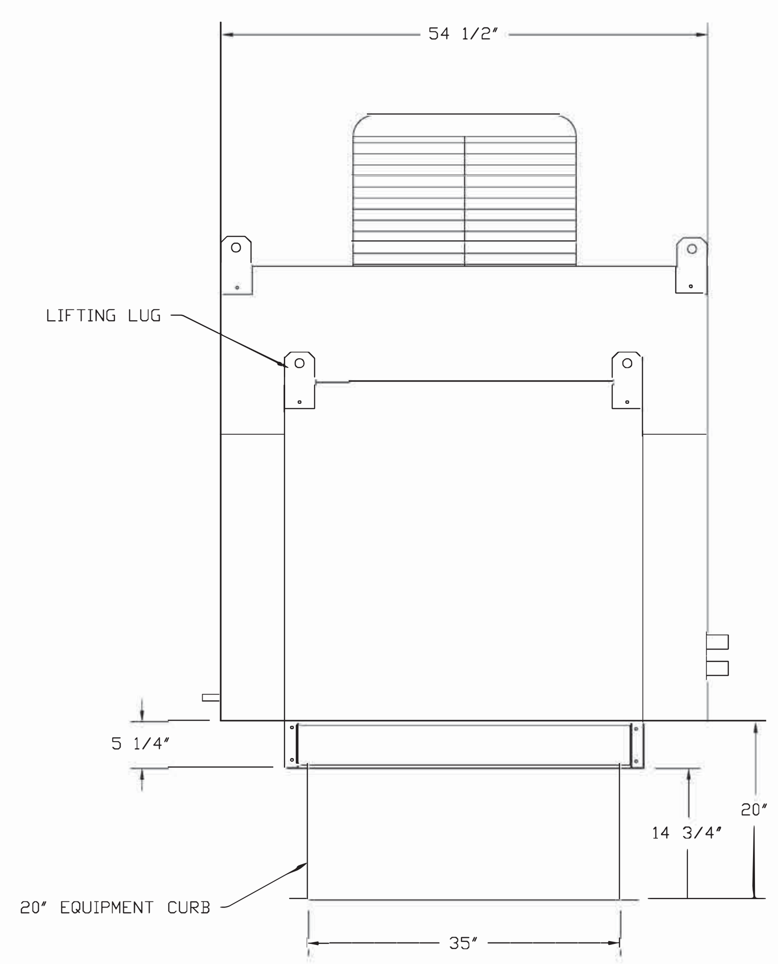
HOOD DETAIL PLAN

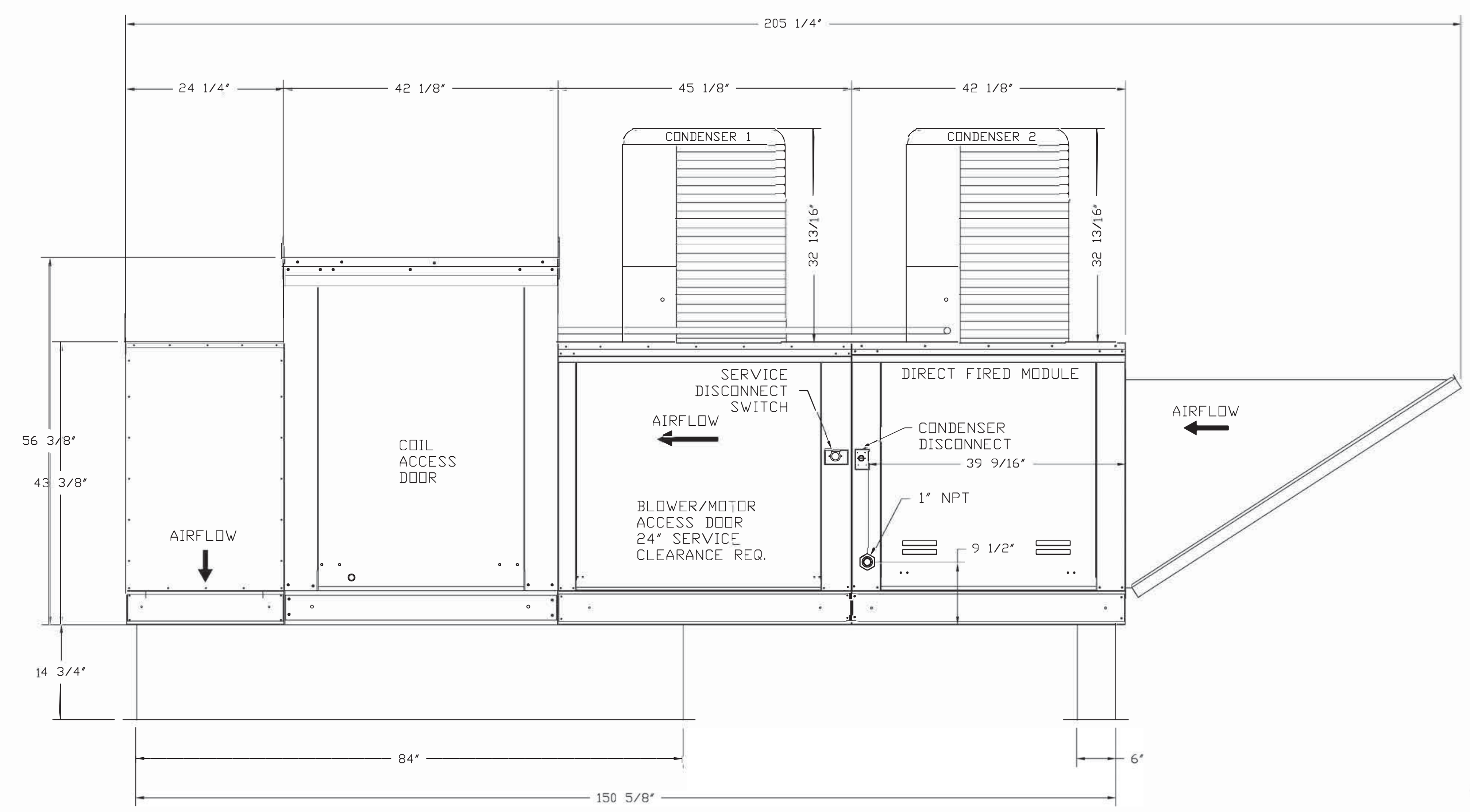
FAN #3 A3-D.500-G18-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 18" BLOWER AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, NFBUP-S ACTUATOR INCLUDED
6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
8. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
9. FULL CRATING FOR COMMERCIAL HEATERS FOR SHIPPING.
10. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
11. 10 TON, DUAL CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (3,600 TO 6,000 CFM) NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 460V, 3 PHASE POWER SUPPLY. COIL = 3EZ0602M
12. DOWNTURN PLENUM FOR SIZE 3 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS

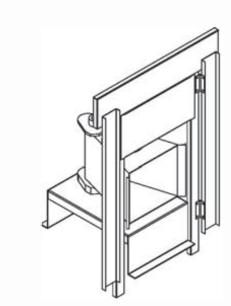
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 21°F. TEMP. RISE = 54°F.
BTUs CALCULATED OFF STANDARD AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 314928
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 342313









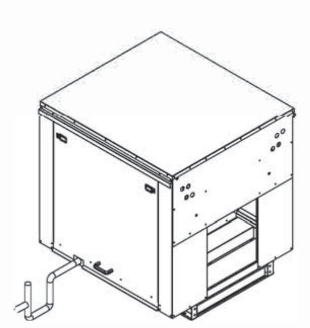
Direct Fired (DF) Profile Plate Assembly

<u>Direct Fired Profile Plate Specifications:</u>
<u>Description:</u>
Direct fired burners shall have patented (US Patent No.: US6629523B2), self-adjusting profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by limiting by-product levels to a maximum of 5ppm of carbon monoxide (CO), and 0.5ppm of nitrogen dioxide (NO2).

<u>Application:</u>
Spring-loaded burner profile plates are engineered to automatically react to the momentum of a fresh air stream, without the need for any motors or actuators to mechanically adjust them. With this feature, all DF units are designed for demand control ventilation (DCV) requirements.

<u>Certifications:</u>
All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combined safety standards ANSI Z83.4 and CSA 3.7 (non-recirculating DF heaters) and ANSI Z83.18 (recirculating DF heaters).

<u>General Construction:</u>
-Profile plates shall be formed from G90 galvanized steel.
-Profile plates shall vary in size per unit.
-Profile plates shall be mounted along the same plane as the discharge of the burner.
-Design shall incorporate properly torqued, permanently mounted spring hinges.
-Spring hinges shall be made from plated steel.



Refer to Plumbing Detail P-500 for AC Unit Condensate Drain

STATE OF MARYLAND DONALD J. PENN No. 22242 PROFESSIONAL ENGINEER
6/19/17

REVISIONS	
DESCRIPTION	DATE:
3 PHS 460V	04.24.2017

CAPTIVEAIRE
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Panda Express - Patuxent River MD (B1-17-D5167)
22268 Cedar Point Road, Building
PATUXENT RIVER, MD, 20670

DATE: 11/22/2016
DWG.#: 2842504
DRAWN BY: AJP-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
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91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:
1 100% SUBMITTAL

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PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

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CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

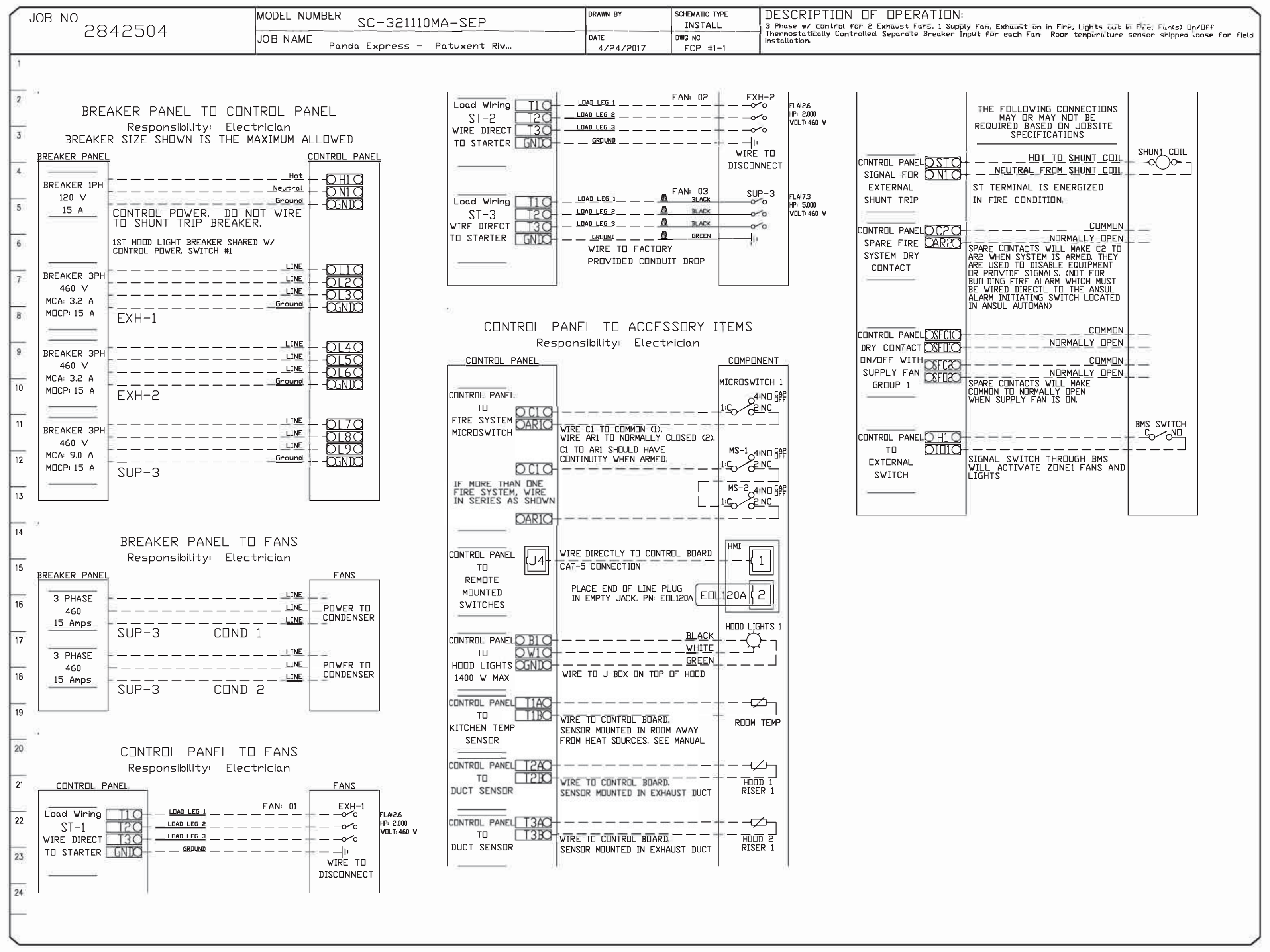
M-402

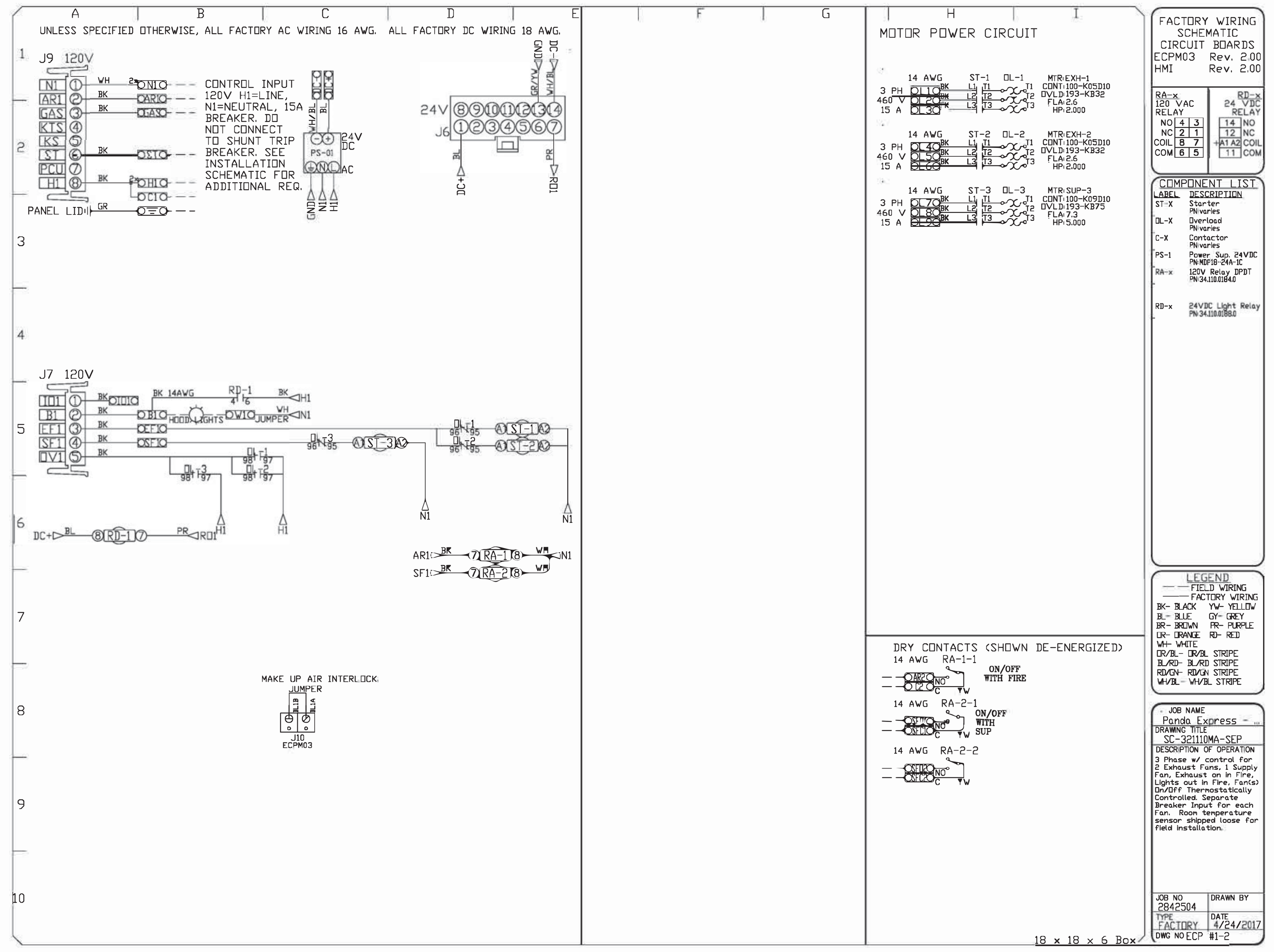
HOOD DETAIL PLAN

ELECTRICAL PACKAGES – Job#2842504

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	H.P.	VOLT	FLA
1		SC-321110MA-SEP	Wall Utility Cabinet Left	08 – Ship Loose w/ Prewire	1 Light 1 Fan	Smart Controls Thermostatic Control w/ Relay On/Off with Supply	Exhaust	3	2.000	460	2.6
							Exhaust	3	2.000	460	2.6
							Supply	3	5.000	460	6.8

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
2842504	SC-321110MA-SEP		INSTALL	3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire. Fan(s) On/Off Thermostatically Controlled. Separate Breaker Input for each Fan. Room temperature sensor shipped loose for field installation.
	JOB NAME: Panda Express – Patuxent Riv...	DATE: 4/24/2017	DWG NO: ECP #1-1	



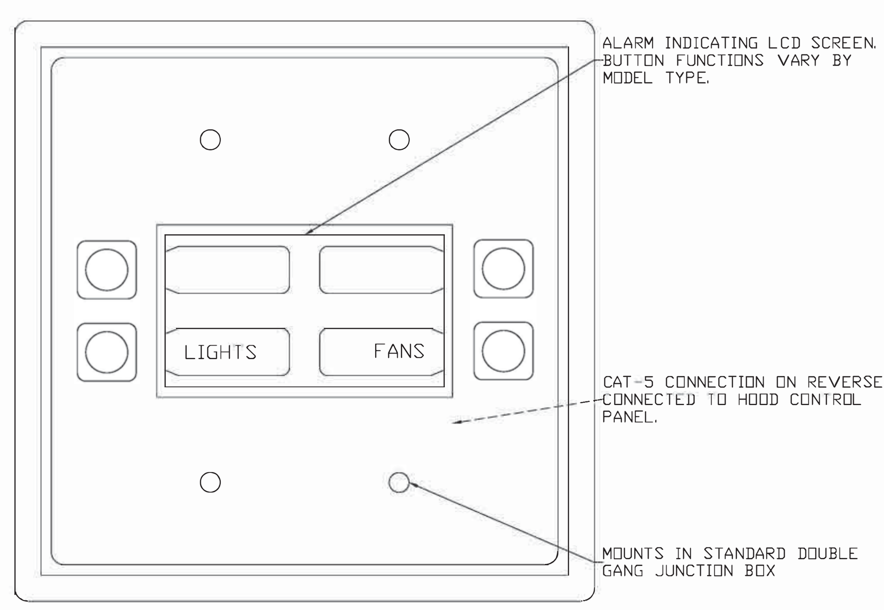


NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE
CAPTIVEAIRE
SOUTHERN CALIFORNIA OFFICE
STONE MILL DESIGN CENTER
2915 RED HILL AVE, SUITE C106
COSTA MESA, CA 92626
TEL: 800-967-7701 EMAIL: REG86@CAPTIVEAIRE.COM



REVISIONS

	DESCRIPTION	DATE
1	3 PHS 460V	04.24.2017
2		
3		
4		

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STATE OF MARYLAND · DONALD J. PENN · No. 22242 · PROFESSIONAL ENGINEER
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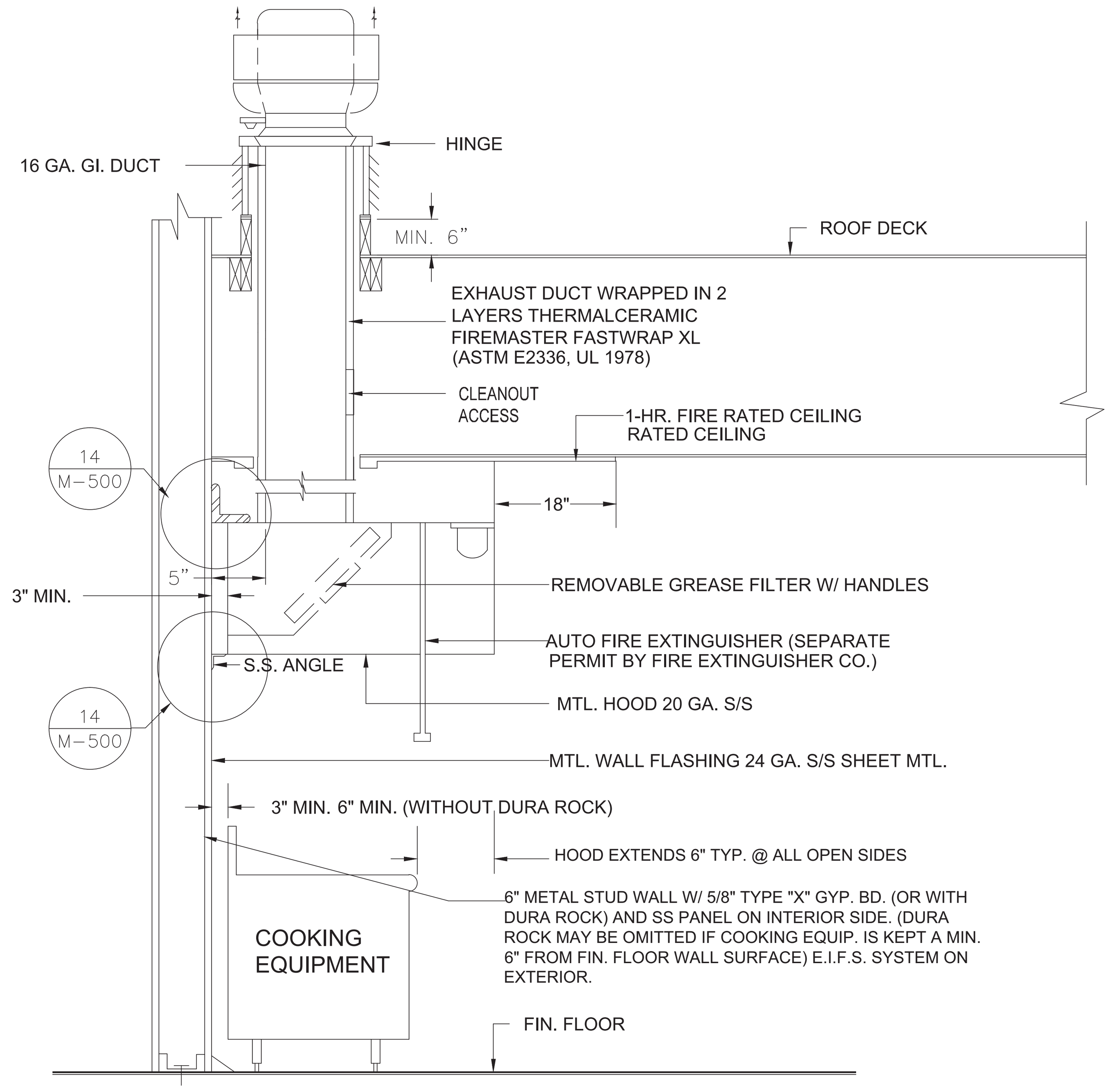
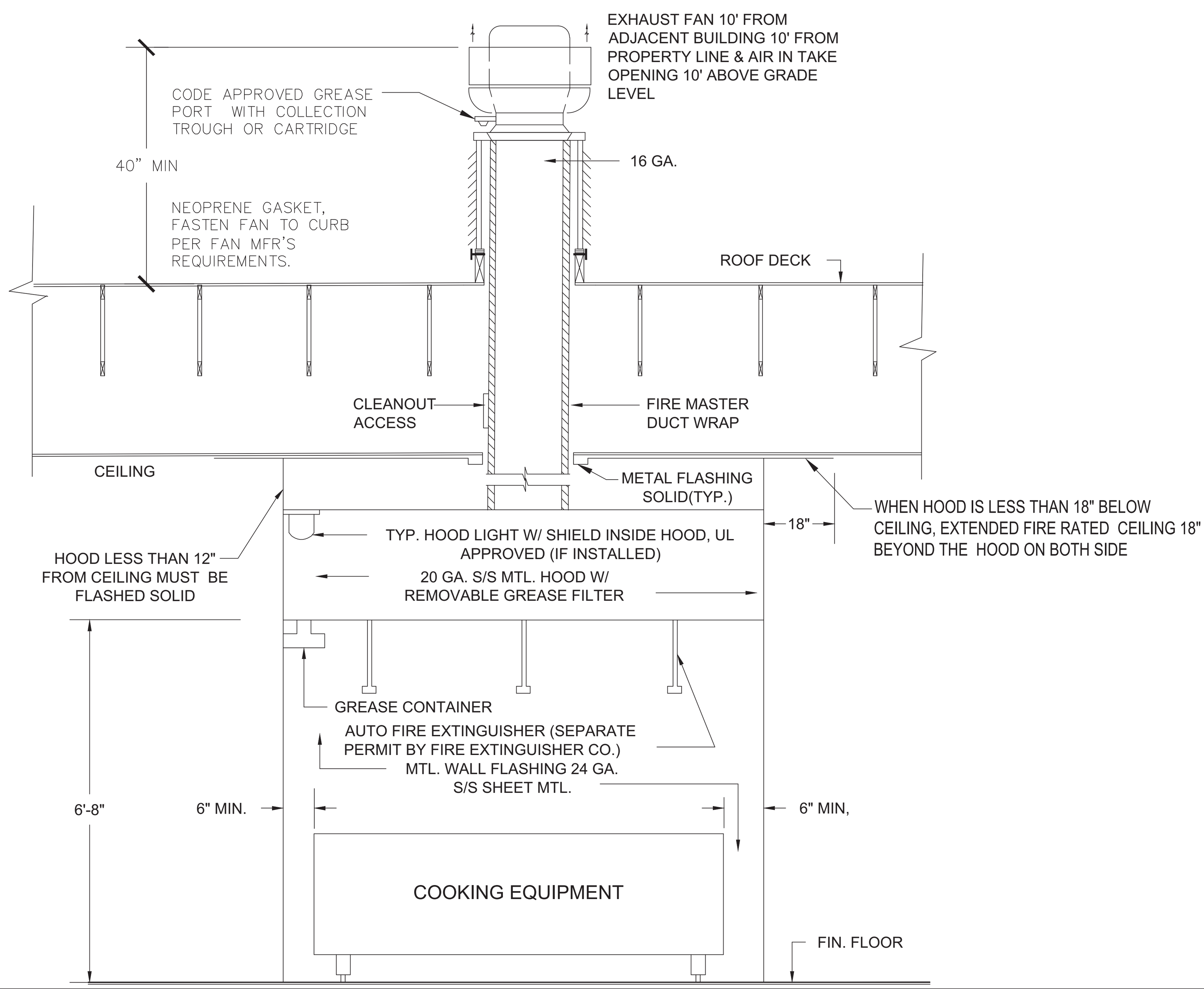
PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

M-403

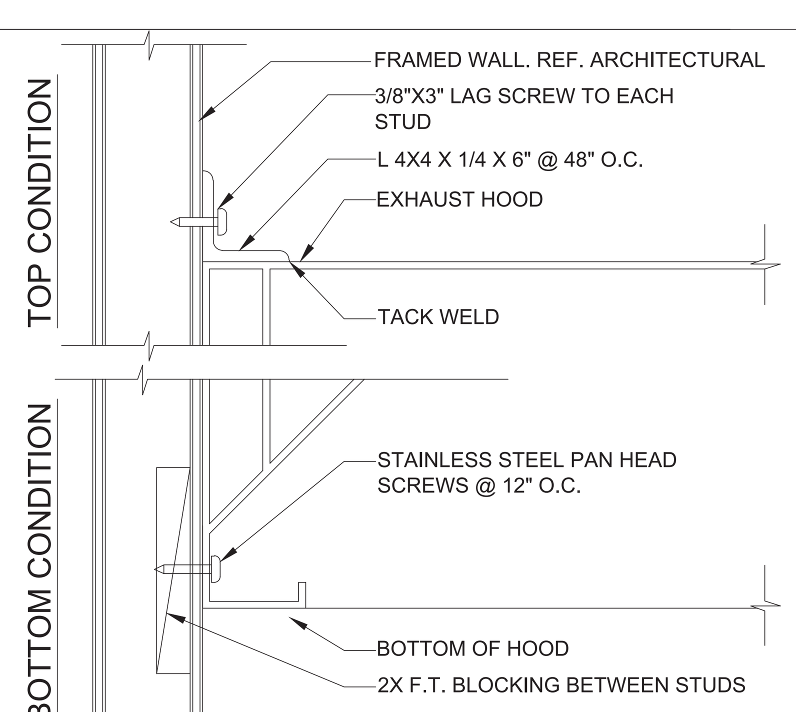
HOOD DETAIL PLAN

PERFORMANCE TEST FOR LISTED MECHANICAL HOOD IS REQUIRED PER UMC 509.11

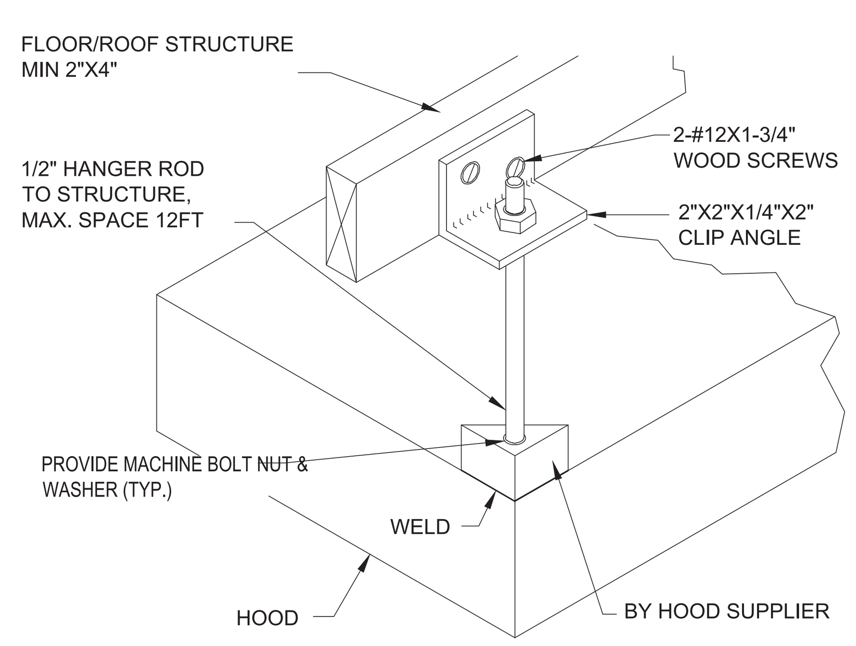




HOOD SECTIONS 18
Scale: NO SCALE M500



HOOD CLIP AT WALL 14
Scale: NO SCALE M500



HOOD SUPPORT AT TRUSS 13
Scale: NO SCALE M500

GREASE HOOD SYSTEM CALCULATION

1. TYPE : CANOPY TYPE I, STAINLESS STEEL 20 GAUGE,
2. COOKING EQUIPMENT: (2) CHINESE RANGE, (2) DEEP FRYER, RICE COOKER
3. SIZE: 23'-0" x 4'-0" + 2'-0" MAKEUP AIR PLENUM
4. MIN. REQ'D CAPACITY CFM: (2) U.L. LISTED HOOD @ 3,375 CFM EACH
5. PROPOSED (2) EXHAUST FAN & (1) MAKE-UP AIR UNIT. EF1 & EF2 (3,375 CFM EACH); MAU1 (5,400 CFM, 80% OF EXHAUST)
6. EXHAUST DUCT SIZE: 22"X14"
7. EXHAUST VELOCITY @ EXHAUST DUCT 3375/(22"x14"/144)=1578 FPM 500FPM < 1578 FPM < 2500FPM
8. EXHAUST FAN (EF1 & EF2) AND MAKE-UP AIR UNIT (MAU1) SHALL BE ELECTRICALLY INTERLOCKED
9. FOR CODE COMPLIANCE SEE DETAIL
10. FOR FILTER INFORMATION SEE CAPTIVEAIRE DWG #M-400.
11. INTERLOCK RTU FANS TO OPERATE WITH KEF'S FOR MAKEUP AIR.

INFORMATIONAL GUIDE FOR COMMERCIAL COOKING HOODS

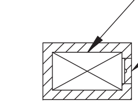
1. GALVANIZED OR STAINLESS STEEL TO BE MINIMUM NO. 20 U.S. GAGE OR 24 OZ. COPPER.
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION AND READILY ACCESSIBLE FOR CLEANING.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
6. HOODS SHALL BE SECURELY FASTENED IN PLACE BY INCOMBUSTIBLE SUPPORTS.

NOTES

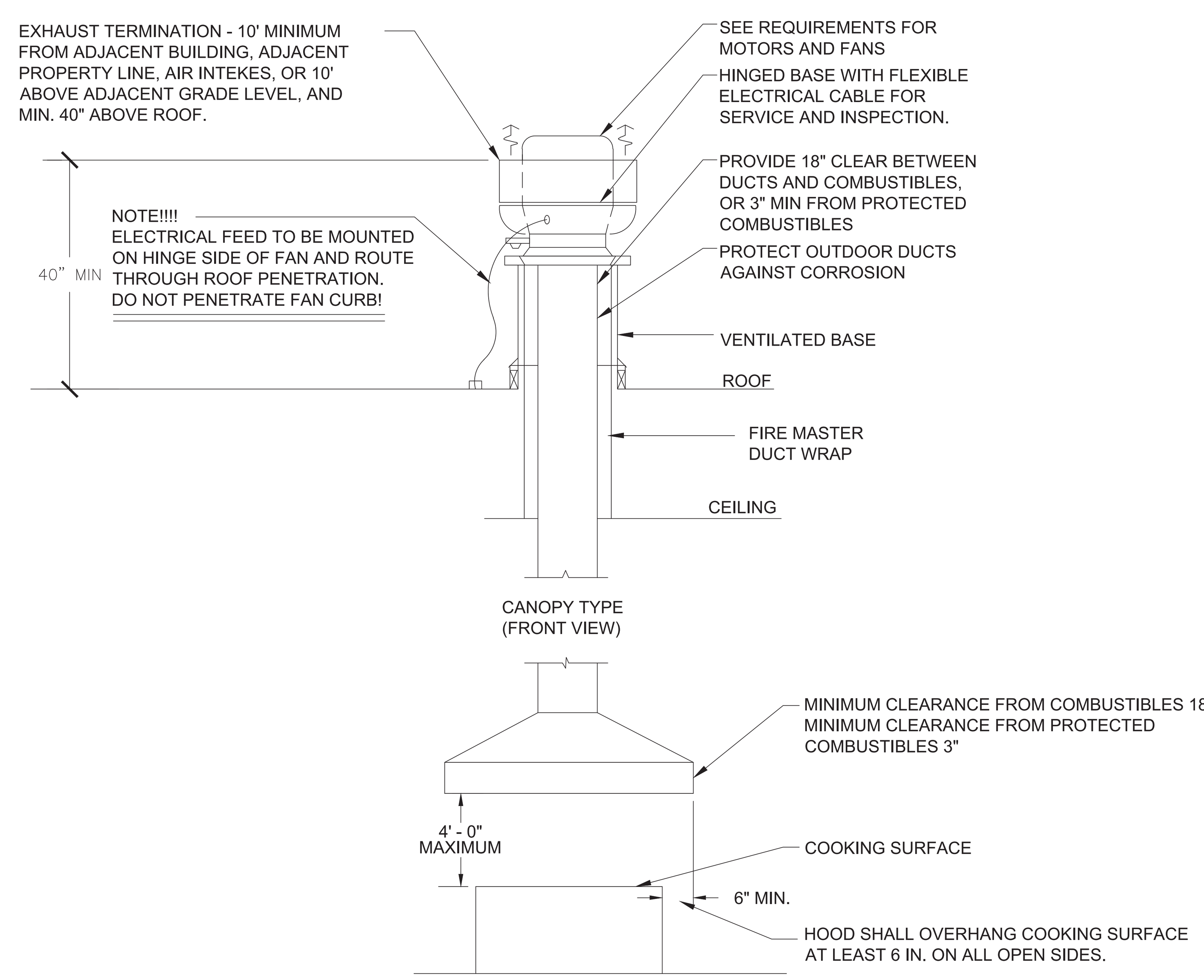
1. PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THOROUGH CLEANING OF DUCT SYSTEM.
2. PROVIDE ADEQUATE MAKE-UP AIR FOR PROPER OPERATION.
3. PROVIDE A SEPARATE DUCT SYSTEM FOR EACH HOOD.
4. THICKNESS OF DUCTS SHALL BE:

DUCT AREA	U.S. GAGE STEEL
UP TO 4 SQ. FT.	16 GA
OVER 4 SQ. FT.	14 GA

5. WELD OR BRAZE ALL DUCT JOINTS AND SEAMS ON THE EXTERNAL SURFACE.
6. SUPPORT THE DUCTS AS REQUIRED. DO NOT PENETRATE DUCT WALLS WITH SCREWS, NAILS, ETC.
7. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.



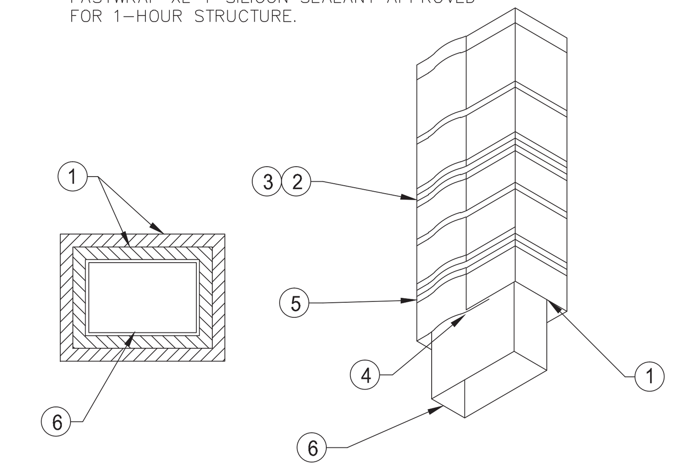
CLEAN OUT DOOR DETAIL
N.T.S.



(FOR REFERENCE ONLY)

HOOD VENTILATION AND SECTION 5
Scale: NO SCALE M500

NOTE:
GREASE EXHAUST DUCT INSULATION TYPE FIRE MASTER FASTWRAP XL + SILICON SEALANT APPROVED FOR 1-HOUR STRUCTURE.



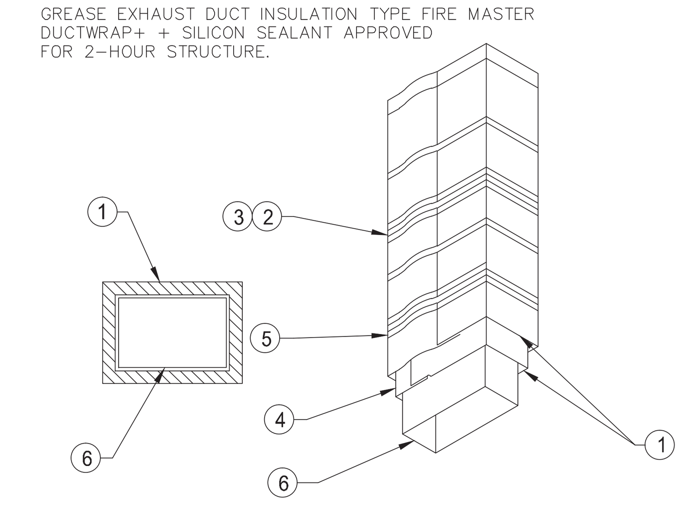
LEGEND	
1	TWO LAYERS FIRE MASTER FASTWRAPXL
2	FILAMENT TAPE
3	BANDING
4	3-INCH PERIMETER OVERLAP
5	3-INCH LONGITUDINAL OVERLAP
6	GREASE DUCT

FOR SI: 1 INCH=25.4 MM UL # YYET-R14229

FIGURE 1-HOUR FIRE-RESISTIVE PROTECTION SYSTEM FOR GREASE DUCTS

2 HOUR GREASE DUCT WRAP 3
Scale: NO SCALE M500

NOTE:
GREASE EXHAUST DUCT INSULATION TYPE FIRE MASTER DUCTWRAP+ + SILICON SEALANT APPROVED FOR 2-HOUR STRUCTURE.



LEGEND	
1	ONE LAYER FIRE MASTER DUCTWRAP+
2	FILAMENT TAPE
3	BANDING
4	3-INCH PERIMETER OVERLAP
5	3-INCH LONGITUDINAL OVERLAP
6	GREASE DUCT

FOR SI: 1 INCH=25.4 MM UL # YYET-R14229

FIGURE 2-HOUR FIRE-RESISTIVE PROTECTION SYSTEM FOR GREASE DUCTS

STATE OF MARYLAND DONALD J. PENN No. 22242 PROFESSIONAL ENGINEER
6/19/17

1 HOUR GREASE DUCT WRAP 1
Scale: NO SCALE M500

PANDA EXPRESS CHINESE KITCHEN
PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

DRAWN BY:

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Professional Certification

I hereby certify that these documents were prepared and approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 22242, Expiration Date: 02/03/19

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

M-500

KITCHEN HOOD DETAILS

- 20
Scale: NO SCALE M-501

- 19
Scale: NO SCALE M-501

- 18
Scale: NO SCALE M-501

- 17
Scale: NO SCALE M-501

- 16
Scale: NO SCALE M-501

- 15
Scale: NO SCALE M-501

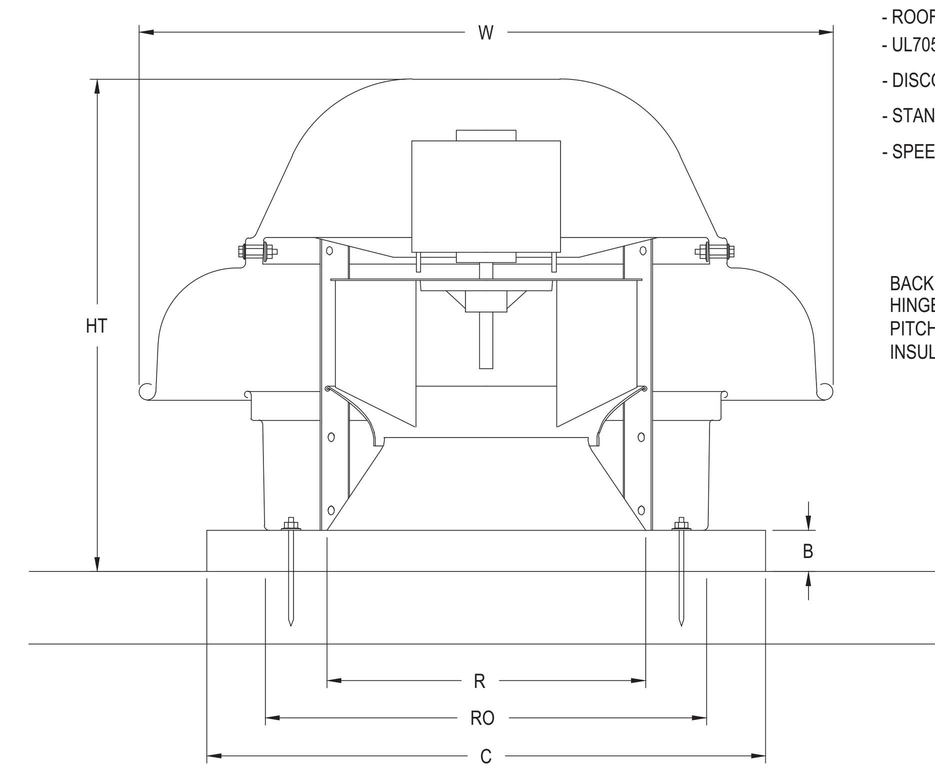
- 14
Scale: NO SCALE M-501

- 13
Scale: NO SCALE M-501

DDFA DIRECT DRIVE
CENTRIFUGAL RADIAL EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	R	RO	WEIGHT LB
DD7FA	25-1/2	26-1/4	2	21	12-1/8	16	95

DRL/HFA SERIES RADIAL EXHAUST FANS



FEATURES:

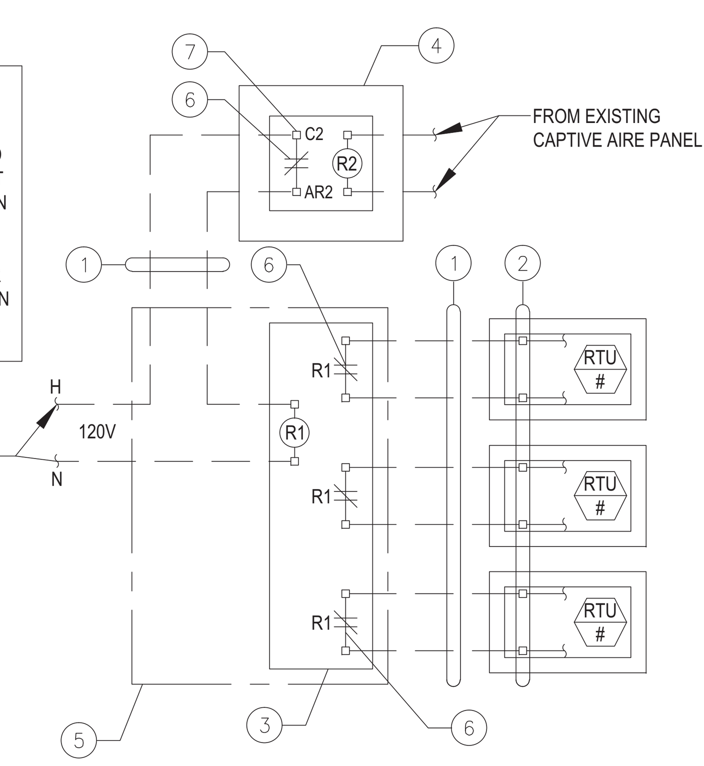
- ROOF MOUNTED FANS
- UL705
- DISCONNECT SWITCH
- STANDARD BIRD SCREEN
- SPEED CONTROL

BACKDRAFT DAMPER
HINGED FAN
PITCHED CURB
INSULATED CURB

EXHAUST FAN (RESTROOM) DETAIL
N.T.S.

- 6
Scale: NO SCALE M-501

SEQUENCE OF OPERATIONS:
UPON ACTIVATION OF THE KITCHEN HOOD ANSUL SYSTEM, THE DRY CONTACT WITHIN THE HOOD CONTROL PANEL SHALL OPEN AND SEND A CONTROL SIGNAL FOR ROOFTOP UNIT SHUTDOWN. SHUTDOWN SHALL OCCUR VIA AN ISOLATION RELAY TO THE (3) ROOFTOP UNITS SUPPLYING MAKE-UP AIR TO THE HOOD. E.C. TO PROVIDE CABINET, RELAY, TRANSFORMER AND ALL NECESSARY CONDUIT AND WIRING IN ORDER TO PROVIDE A, COMPLETE, FULLY FUNCTIONING SYSTEM.



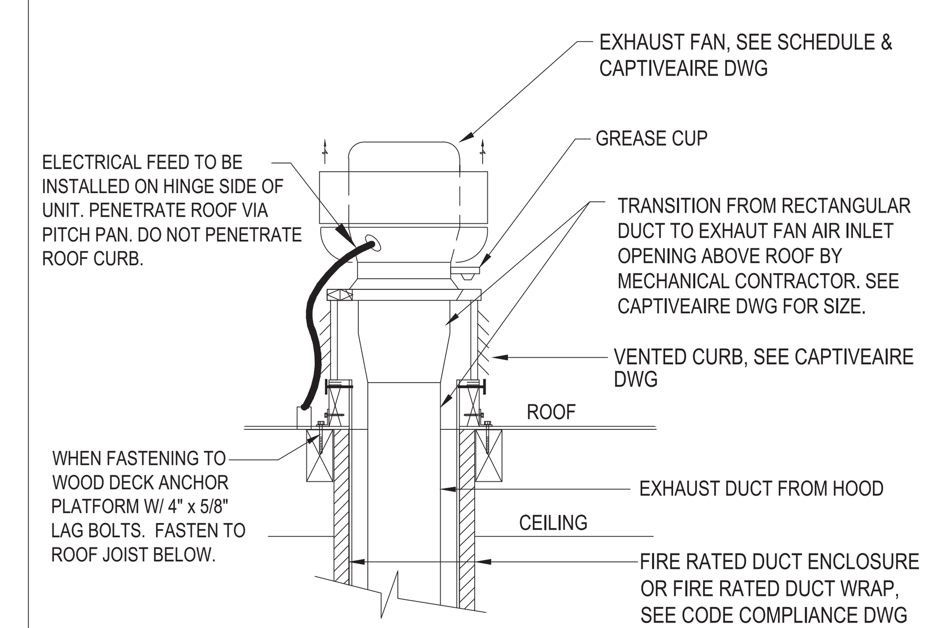
LEGEND

1. (2) #12 CONTROL WIRES IN 1/2" CONDUIT BY E.C.
2. M.C. TO CONNECT INTO REMOTE UNIT SHUTDOWN TERMINAL ON CARRIER ROOFTOP UNIT CONTROL BOARD AND REMOVE JUMPER. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.
3. DPDT 120V RATED RELAY BY E.C. ENERGIZE FOR FAILSAFE OPERATION.
4. HOOD CONTROL PANEL AT KITCHEN.
5. 12X12X6 NEMA 1 CABINET MOUNTED ON WALL ADJACENT TO KITCHEN HOOD BY E.C.
6. N.O. DRY CONTACT (SHOWN ENERGIZED) THAT OPENS IN FIRE CONDITIONS.
7. 120V RATED DRY CONTACT WITHIN CAPTIVE AIRE PANEL.

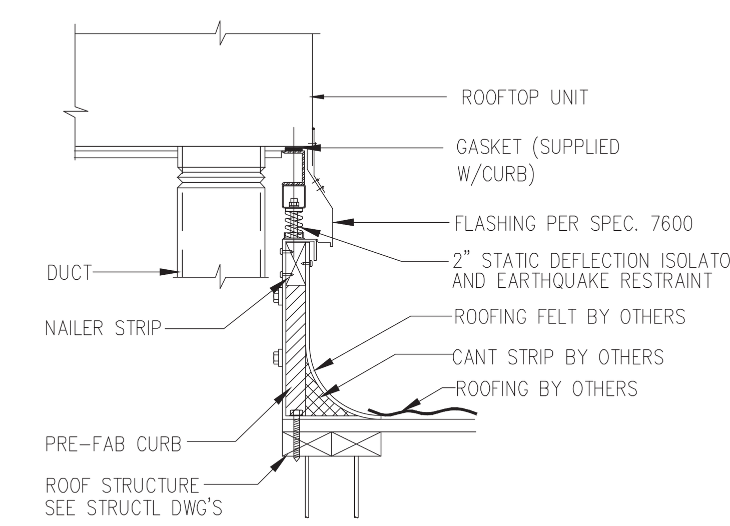
6/19/17

RTU CONTROL WIRING DIAGRAM 5
Scale: NO SCALE M-501

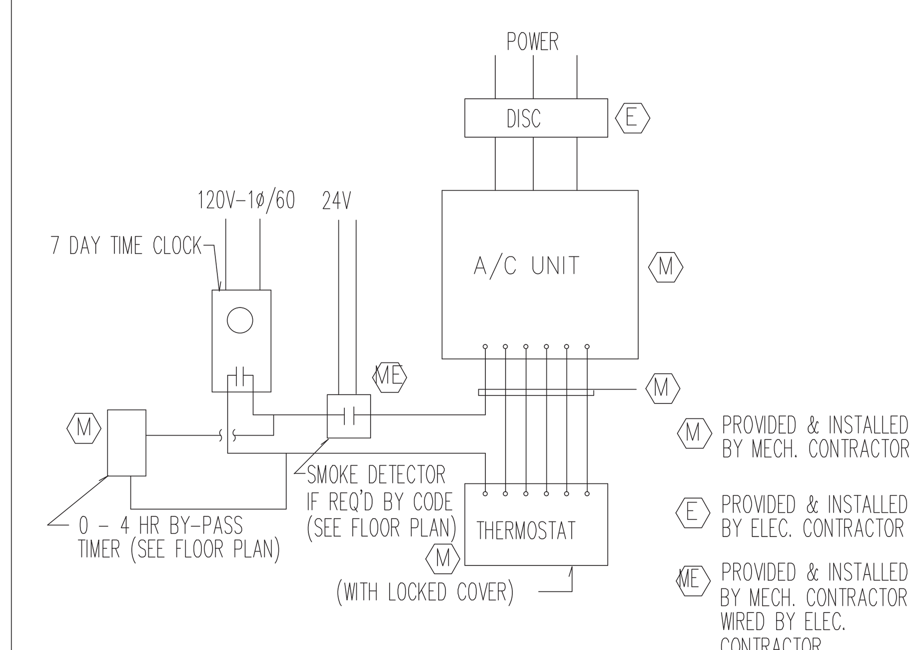
- 4
Scale: NO SCALE M-501



GREASE EXHAUST FAN DETAIL 3
Scale: NO SCALE M-501



RTU UNIT CURB DETAIL 2
Scale: NO SCALE M-501



AC UNIT WIRING DIAGRAM 1
Scale: NO SCALE M-501

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
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PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

M-501

MECHANICAL DETAILS

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.
1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT
A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
B. VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE, AND AMPERE RATING OF LOAD
C. THE DRAWINGS GENERALLY INDICATE THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.

2.02 RACEWAYS
A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS.
B. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
C. ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE WITH INSULATED THROATS.
D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.

2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED.
2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/THHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM; NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM; GROUND - GREEN.
2.05 ADDED PANELS TO BE PANELBOARDS - LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
2.06 SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D", CUTLER HAMMER/SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED.
2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL. ALUMINUM ALLOWED WHEN APPROVED BY ARCHITECT.
2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENT COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLATION OUTSIDE.
2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
2.17 WIRING DEVICES
A. HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
B. TOGGLE SWITCHES: SINGLE POLE - HUBBELL 1221- 20A, 120/277V, THREE WAY - HUBBELL 1223- 20A, 120/277V, FOUR WAY - HUBBELL 1224- 20A, 120/277V.
C. RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR COMPARABLE.
D. GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION.
2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL AND WHITE - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
2.19 NOT USED.
2.20 LIGHTING FIXTURES
A. PROVIDE FIXTURES PER SCHEDULE WITH ALL PARTS INCLUDING PLASTER FRAMES FOR RECESSED FIXTURES AND FITTINGS NECESSARY TO COMPLETELY AND PROPERLY INSTALL FIXTURES.
B. LAMPS: INCANDESCENT LAMPS BY G.E., SYLVANIA, OR WESTINGHOUSE, 130 VOLT, EXTENDED LIFE LAMPS. FLUORESCENT LAMPS BY G.E., SYLVANIA, PHILLIPS, OR WESTINGHOUSE. MINIMUM CRI OF 80. WATTAGE AND TYPES AS REQUIRED BY FIXTURE.

PART 3 - EXECUTION

3.01 GENERAL INSTALLATION
A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER.
B. INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
C. LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
D. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. FLUORESCENT LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.
3.02 RACEWAYS
A. INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND OTHER SYSTEMS.
B. UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
C. INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
D. IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
E. INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED TO MAINTAIN AN APPROVED INSTALLATION.
F. DO NOT INSTALL CONDUIT RACEWAYS IN CONCRETE SLABS.
H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.
3.03 GALVANIZED RIGID CONDUIT (GRC) ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED OR SHOWN. CONDUIT, ELBOWS, STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED,
3.04 INTERMEDIATE METAL CONDUIT (IMC) IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT, WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
3.05 ELECTRIC METALLIC TUBING (EMT) EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN.
3.06 FLEXIBLE METAL CONDUIT (FLEX) USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION, AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5.
3.08 OUTLET, PULL AND JUNCTION BOXES
A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
B. WALL SWITCHES: 44".
C. CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT TOP.
3.09 CONDUCTORS (COPPER ONLY)
A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC.
B. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
C. DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN AND DRY AND FREE OF ALL FOREIGN MATERIALS. LUBRICATE AS REQUIRED WITH SPECIFIED LUBRICANT.
D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.
3.10 LIGHTING FIXTURES
A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS AND ALL GLASS, PLASTIC AND OTHER COMPONENTS, UNSCRATCHED AND UNBROKEN.
B. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO ADDITIONAL COST AS DIRECTED.
C. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO LIGHT LEAKS EXIST. D. FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL BE UL APPROVAL FOR THIS CONDITION AND BE PLAINLY MARKED SO INDICATING.
3.11 GROUNDING
A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING TYPE CONDUCTOR.
C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO ENCLOSURE, SIZE AS PER NEC.
3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK. PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS.
3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT.
3.14 FINAL INSPECTION TESTS TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETE, TEST FOR INSULATION RESISTANCE. RESISTANCE LOWER THAN OUTLINED IN THE NEC, MANUFACTURER'S DATA, ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.
3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN, PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

ELECTRICAL SPECIFICATIONS 3
NOT TO SCALE E-000

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE RECOMMENDED SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CONTROL CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (ANJ).
3. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LOCALLY ADOPTED, AS NATIONAL ELECTRICAL CODE ADAPTED BY THE JURISDICTION AND ANY LOCAL SUPPLIMENTS.
4. ALL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSED TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK OR THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHOULD OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, ETC., AS INDICATED THEREON AS PROVIDED UNDER THE ELECTRICAL WORK.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD INPUT VOLTAGE OF ALL EQUIPMENT PRIOR TO INSTALLATION. ACCEPTING ANY EQUIPMENT RESULTING IN A LOAD INCREASE SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS IN FIRE RATED WALLS GREATER THAN 16 SQ. IN. MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN CODE.
17. ALL FLUORESCENT BALLASTS AND LAMPS SHALL BE CALIFORNIA ENERGY COMMISSION(CEC) CERTIFIED ENERGY SAVING TYPE.
18. DO ALL DRILLING, CUTTING, CHANNELING AS REQUIRED FOR ELECTRICAL WORK AND INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
20. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. AND SHALL BE DESIGNED TO PROVIDE MINIMUM REQUIRED FOOTCANDLES AND LUMENS. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY INSPECTION AUTHORITIES HAVING JURISDICTIONS.
21. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA. [NON HEALTH CARE FACILITY INCLUDE OSHPD NOTES FOR HEALTH CARE FACILITY]

FIXED EQUIPMENT ON GRADE: OPERATING WEIGHT	33% OF
FIXED EQUIPMENT ON STRUCTURE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION ON STRUCTURE: OPERATING WEIGHT	75% OF

FOR FLEXIBLE MOUNTED EQUIPMENT USE 2 X THE ABOVE VALUES.
SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE.

CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

NOTICE
THESE DRAWINGS ARE SUBJECT TO AN APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AGENCIES AUTHORITY HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPT FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

GENERAL NOTES 2
NOT TO SCALE E-000

MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE JUNCTION BOXES.

NO UNDER SLAB ELECTRICAL WORK ALLOWED UNLESS OTHERWISE NOTED ON PLAN.

ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

POWER DISTRIBUTION

S_M	SINGLE-POLE SWITCH, MANUAL MOTOR STARTER
J	J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)
	DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
	COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.
	BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.
	BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS
	INDICATES EXTERIOR UNDERGROUND WIRE RUNS.

LIGHTING & LIGHTING CONTROLS

L1	LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.
S_a	SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
S_2	TWO-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
S_P	SINGLE-POLE LIGHT SWITCH WITH PILOT LIGHT @ 44" A.F.F. U.N.O. 300V. 20A.
S	OCCUPANCY SENSOR SWITCH WITH OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC., WI-200 FOR CLASSROOMS/LARGE ROOMS/ETC.
	CEILING MOUNT DUAL TECHNOLOGY ULTRASONIC / P.I.R. MOTION SENSOR TO CONTROL POWER TO ROOM SWITCHES - WATTSTOPPER #DT-300 (WITH POWER PACK) OR EQUAL.

RECEPTACLES & COMMUNICATIONS OUTLETS

	DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
	SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
	DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
	GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
	GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
	TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'w' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.
	DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
	COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
	T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.
	SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
	ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
	DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
	ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A.,125V.
SPK	SPEAKER

ABBREVIATIONS

A	AMPERES	M.C.B.	MAIN CIRCUIT BREAKER
AL	ALUMINUM	M.L.O.	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MTD.	MOUNTED
A.F.G.	ABOVE FINISHED GRADE	P.	POLE
C.	CONDUIT	SW.	SWITCH
C/B	CIRCUIT BREAKER	T.M.B.	TELEPHONE MOUNTING BOARD
CU.	COPPER	TYP.	TYPICAL
DISC.	DISCONNECT	U.N.O.	UNLESS NOTED OTHERWISE
F.	FUSE	V.	VOLTS
GFI	GROUND FAULT CURRENT INTERRUPTER	W.	WIRE
GND.	GROUND	W.P.	WEATHERPROOF
H.P.	HORSE POWER	XFMR	TRANSFORMER
k	1000	Ø	PHASE

FIRE ALARM

	MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.
	XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
	COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
FACP	FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
FAAP	FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
	PHOTO ELECTRIC TYPE SMOKE DETECTOR.
	DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
Ø	RATE OF RISE HEAT DETECTOR.

STATE OF MARYLAND DONALD J. PENN No. 22242 PROFESSIONAL ENGINEER
6/21/17

ELECTRICAL SYMBOLS 1
NOT TO SCALE E-000

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

CHECKED BY:
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

dpce
don penn ■ consulting engineer
1301 SOLANA BLVD., BLDG. 1,
SUITE 1420
WESTLAKE, TEXAS 76262
Phone: 817-410-2858
Fax: 817-251-8411

Professional Certification

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 22242 , Expiration Date: 02/03/19

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

E-000

ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

07-04-2

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1 / 56	L1	FLUORESCENT LIGHTING FIXTURE, 2'x4', 120V WITH ONE ELECTRONIC BALLASTS AND T-8 LAMPS. EXTRUDED VIRGIN LENS. BAKED-ON WHITE ENAMEL FINISH.	REFER TO ELECTRICAL SHEET E-001 FOR LIGHTING FIXTURE QUANTITY	LIGHTOLIER FIXTURE: XP2GVA232UNVHI T8 F32T8ADV830EWALTO28WATT 2x28W (USE WARM WHITE 3K)	KITCHEN CEILING LIGHTS. FURNISHED BY LICENSEE INSTALLED BY G.C.
L1EM / -	L1EM	T-BAR CEILING RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE, 2' X 4', 120V WITH ONE ELECTRONIC BALLASTS AND T-8 LAMPS, EXTRUDED VIRGIN LENS. BAKED-ON WHITE ENAMEL FINISH.		LIGHTOLIER FIXTURE: XP2GVA232UNVHI -WITH BATTERY BACK UP PACK	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY LICENSEE INSTALLED BY GC
L4 / -	L4	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120V WITH BATTERY PACK, 2 FACE, GREEN LETTER		JUNO, NAVILTE, NIBLHO THERMOPLASTIC EMERGENCY LIGHT	EXIT SIGN FURNISHED BY LICENSEE, INSTALLED BY GC
L6A / -	L6A	HOOD LIGHT		FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L19 / -	L19	DOWN LIGHT, RECESSED IN CEILING		ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-14W-120-FL-27K-W-WH	FURNISHED BY LICENSEE, INSTALLED BY GC
L20 / -	L20	3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING		LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 BEAM	FURNISHED BY LICENSEE, INSTALLED BY GC
L22 / -	L22	PENDANT: CRYSTAL GLOBE COLOR: CLEAR/ RED TYPICAL OF 13: 5"DIA CANOPY (CHROME) AND 3.9"DIA GLOBE LIGHTS		KUD JER ENTERPRISES ITEM NO. GC-UL2015088502-R BULB: G4 LED 4 WATTS AT 12V	FURNISHED BY PANDA VENDOR, INSTALLED BY GC (CONTACT PANDA EXPRESS DESIGN MANAGER FOR VENDOR INFORMATION AND BULB COLORS TO BE USED)
L31 / -	L31	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL: PARALLEL SERIES (CANNISTER) COLOR: DARK BRONZE/ RUBY SIZE: 7"W X 10" H	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524
L32 / -	L32	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL:PARALLEL SERIES (WIDE CYLINDER) COLOR: DARK BRONZE/ RUBY (10"W X 7" H)	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524
L33 / -	L33	PENDANT AT SERVICE COUNTER		HENNIPENMADE PENDANT MODEL:PARALLEL SERIES (CYLINDER) COLOR: DARK BRONZE/ RUBY (5"W X 11" H)	FURNISHED BY PANDA VENDOR, INSTALLED BY GC HENNEPINMADE.COM (715) 220-9524

STATE OF MARYLAND
DONALD J. PENN
No. 22242
PROFESSIONAL ENGINEER
6/21/17

LIGHTING FIXTURE SCHEDULE 2
NOT TO SCALE E-001

EQUIPMENT SCHEDULE

11-21-16

PLUMBING	ELECTRICAL	DESCRIPTION	
FS INDIRECT CONNECTION TO FLOOR SINK	D DIRECT CONNECTION	O OWNER(PANDA EXPRESS, INC.)	S SERVING AREA
D DIRECT CONNECTION	C CONVENIENT OUTLET	GC GENERAL CONTRACTOR	K KITCHEN
RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)	FSO FLOOR STUB OUT	EC ELECTRICAL CONTRACTOR	(E) EXISTING
	DC DROPPED CORD	KEC KITCHEN EQUIPMENT COMPANY	

SUPPLY BY	GAS K BTU	GAS R.I.H.	GAS SIZE	WASTE TYPE	WASTE SIZE	COLD WATER R.I.H.	COLD WATER SIZE	HOT WATER R.I.H.	HOT WATER SIZE	CONNECTION R.I.H.	CONNECTION TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (ø x H)	MANUFACTURE	MODEL #	EQUIPMENT	NO.
SERVING AREA EQUIPMENT																					
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER, SERVICE	1B
O										REF. ELEC.	D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE. COUNTER	2Q
O											C	650W	1		120	INDUCTION DRY WELL	15 3/4" DIA X 11"D	COOKTEK	IDW650L	INDUCTION WELL - 17QT	3J
O											C	650W	1		120	INDUCTION DRY WELL	12 1/2" DIA X 11"D	COOKTEK	IDW650S	INDUCTION WELL - 11QT	3K
O											C	6.7A	1		120		11 7/8" DIA. X 16"	VOLLRATH	74701DW	SOUP WARMER	3T
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O										REF. ELEC.	D	840W	1		120	3 HEATING ELEMENTS	43.06" X 5.25" X 3.03"	KEC		43" RADIANT TOP HEATER	1S2b1
O											D	1100W	1		120	4 HEATING ELEMENTS	55.56" X 5.25" X 3.03"	KEC		56" RADIANT TOP HEATER (2)	1S2b2
O											D	840W	1		120	3 HEATING ELEMENTS	43.06" X 5.25" X 3.03"	KEC		43" RADIANT TOP HEATER (2)	1S2-S1d
O				FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O										96"	C	7.2A	1		120	ON S/S SHELF	15"x11"X16"	CORNELIUS		BOOSTER	4B
O																	40"x18"	CORNELIUS		SODA RACK	4C
O																ON 6" CURB	ø26"	CHART	CARBO-MAX 750	CO2 TANK	4D
O				FS	1/2"												34"x17"x6 1/2"	KEC	CUSTOM	36" COLD PAN	5C
O						96"	1/2"									WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	4F
O										24"							SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER - DRIVE THRU	6F
O										24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER- DT	9B
O										24"	C	14.8A	1		120	NEMA 5 PLUG	11" X 22" X 34"	BUNN	TB3	ICED TEA BREWER (2)	9D
O				FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	---	22" X 14" X 26.5"	MANITOWOC	IB-0894YC	800 LBS. ICE MACHINE	10J
O										16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	CVD-0875	REMOTE CONDENSER	10J-S1
KITCHEN EQUIPMENT																					
O	450	10"	1-1/2"	FS	2"	10"	1/2"									SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"									SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	122 EA.	14"	1 1/2"							24"	C	-	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	MJ45-FPP345G	FRYER	21G
GRILL O / NEMA PLUG/CONNECTOR O										36"	DC	25A	3		208V		36"X27 7/8"X15 1/2"	STAR	536TGF	STAR ELECTRICAL GRILL	23B
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 30"	3/4"														19"øx17"	RINNAI	RER-55AS	RICE COOKER	25A
O				FS	3/4"					130"	D	500W	1	1.5	120/208		SEE PLAN	GRE	CUSTOM	WALK-IN COOLER UNIT	31M
O											D	10.0A	1	1.5	208		SEE PLAN	GRE	CUSTOM	WALK-IN COOLER COND.	31-S
O											D/ID	500W	1		120		SEE PLAN	GRE	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O				FS	3/4"					130"	D	500W	1	1.5	120/208		SEE PLAN	GRE	CUSTOM	WALK-IN FREEZER	32M
O											D	10.0A	1	1.5	208		SEE PLAN	GRE	CUSTOM	WALK-IN FREEZER COND.	32-S1
O										24"	C	6.6A	1	1/3	120	NEMA 5-15P	60 3/8"X30"X29 3/4"	TRUE	TUC-60F	60" WORKTOP FREEZER	30K
O										24"	C	12A	1	1/2	120	SELF CONTAINED	84"x33"x35"	RANDELL	9050K-7MP2-NSB	84" REF. PREP. TABLE	34A
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O				FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O										18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	KEC	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O										18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	KEC	CUSTOM (NSF)	16"D S.S. WALL MTD. SHELF	43B
O										4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O										UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 18"D WIRE SHELVES	44A-U
O										4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O										UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 24"D WIRE SHELVES	44C-U
O										50"	C	2.8A	1	1/3	120		12 1/2"x21"	PIPER	GSM-4	FOOD PROCESSOR	53
O																	24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																	36 1/2"x 33" x 28"	KEC	CUSTOM	S.S. GRILL STAND	46K
O																	18 5/8"x 33" x 28"	KEC	CUSTOM	INDUCTION COOKER STAND	46N
SMALL EQUIPMENT																					
O										24"	D	1800W	1	–	120			TURBO CHEF	IC-1800W	INDUCTION COOKER	52
O										24"	C	105W	1		120	ON S.S. COUNTER	17" ø	WELBON	WRS-1088BS	RICE WARMER	54A
O										84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"X13 5/8"X22 9/16"	SHARP	R-CD1800M	MICROWAVE	55A
BY G.C.																AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O					2"	24"	1/2"	24"	1/2"							W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O																	SEE DETAIL	SAN-JAMAR	SANJT7500TBK	PAPER TOWEL DISPENSER	60D
O																WALL MOUNT	12"x15"x78"	GRE	5-TIER	LOCKER (2)	61B
O																	20.5"X16"X28"	USA SAFE		SAFE	62A
POS EQUIPMENT																					
O																SEE ELEV. ON E-200	48" X 28" X 42"	GRE	CUSTOM	MANAGER STATION	49A
O										REF ELEV	C	100W	1		120	SEE DETAIL			CUSTOM	COMPUTER	83A
O										REF ELEV	C	50W	1		120	SEE PLAN				POS PRINTERS	86A
O										REF ELEV	C	50W	1		120					FAX	87
O										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
MEP EQUIPMENT																					
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O										88"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8A
BY G.C.										24"	D	20 A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30 A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.										24"	D	20 A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-4860E	DT WINDOW	M10
BY G.C.					3"	36"	3/4"	36"	3/4"		D					FLOOR TYPE	24" X 24" X 13"	G.S.W. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.										87"	C	50W	1		120	SEE PLUMBING DWG	66-3/4" x 22"	A.O. SMITH	BTX-100; SERIES 130	GAS WATER HEATER	P2
BY G.C.						108"	3/4"	108"	3/4"	110"	C	6.0KW	1		208	SEE PLUMBING DWG	18" DIA. X 18-1/4"	A.O. SMITH	DEL-10	ELEC. WATER HEATER	P3
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O										REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
O										REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O										REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O										88"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
BY G.C.																SEE ELEC. DWG				ELECTRICAL PANEL	E7
SIGNAGE																					
O																	SEE SIGN DWG DETAIL		CUSTOM	MENU BOARD	D2b
O										REF ELEV	C	120W	1		120	DEDICATED CIRCUIT	44.2" X 24.3" X 1.2"	LG	47WS50BS-B	LCD DISPLAY MONITOR	96-3A
O										REF ELEV	C	130W	1		120	DEDICATED CIRCUIT	48.9" X 28.1" X 1.3"	LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B
O										REF ELEV	C	VFY	1		120	DEDICATED CIRCUIT	29.1"X19.6"X11.9"	LG	32WL30MS-B	LED DISPLAY MONITOR	96-3C
O																				BEAR IN CIRCLE - 34" DIA.	S2a
O																				BEAR IN CIRCLE - 48" DIA.	S2b
O																				BEAR IN CIRCLE - 60" DIA.	S2c

EQUIPMENT SCHEDULE 1
NOT TO SCALE E-001

PANDA EXPRESS CHINESE KITCHEN

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ISSUE DATE:

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E-001

ELECTRICAL SCHEDULES

NO UNDER SLAB ELECTRICAL WORK ALLOWED UNLESS OTHERWISE NOTED ON PLAN.

1. VERIFY ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
2. ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATES ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
3. POWER SUPPLY FOR COMPUTER, CASH REGISTER (81, & 86, OR 87A, & 81) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ISOLATED GROUND & ORANGE RECEPTACLE.
4. ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
5. WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
6. NOT USED.

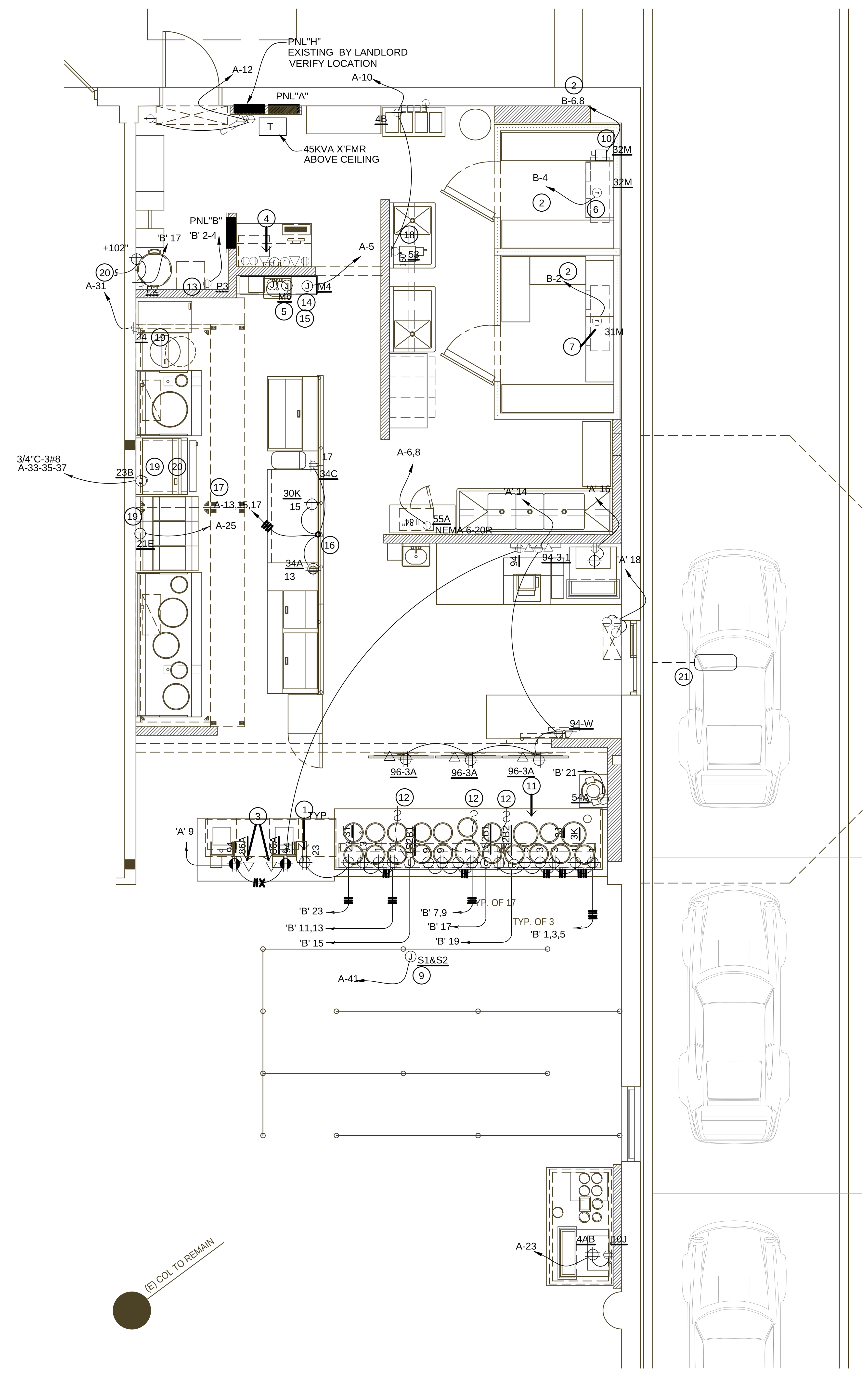
POWER PLAN GENERAL NOTES 2

NOT TO SCALE E-100

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEAL IN WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING / LEAVING AREA OF TEMPERATURE DIFFERENCE.
3. PROVIDE (2) 1" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, SHEET 3/E-200. UTILIZE RIGID CONDUIT ONLY, NO FLEX PERMITTED.
4. SEE 'MANAGER STATION ELEVATION' 1 / E-200.
5. ANSUL PULL STATION. REFER TO DETAIL, SHEET 2 / E-400.
6. REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, SHEET 10 / E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, SHEET 8 / E-400.
8. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO PLAN FOR LOCATIONS AND QUANTITIES.
9. W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, SHEET 9 / E-400. CONNECTION FOR HEAT TRACE TAPE INCLUDED IN FREEZER EVAPORATOR COIL. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
12. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR REFER TO PLAN FOR LOCATIONS AND QUANTITIES.
13. NOT USED.
14. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
15. PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL PANEL. REFER TO M-400, M-401 AND M-402.
16. CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
17. ROUTE CABLING / CIRCUITRY THROUGH CONDUIT IN SLAB (KEYED NOTE #16).
18. PROVIDE WP, IN-USE RED DOT (#CKSUV).
19. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH SHUNT TRIP CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, SHEET 6/E-200.
20. ELECTRIC GRILL '23B': FEED WITH 3 #8, #10 GROUND, 3/4" CONDUIT. REFER TO DETAIL, SHEET 4 / E-200.
21. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E-401.
22. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
23. PROVIDE 3/4" CONDUIT FOR OPTIONAL SPEAKER WITH PULL STRING.

POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100



ALL 120 VOLT, 20 AMP RECEPTACLES WITHIN SERVING AREA 101, DRIVE-THRU 102, AND KITCHEN 103 TO BE SERVED FROM GFCI-TYPE CIRCUIT BREAKERS PER NEC 210.8 (B) (2).

6/21/17

POWER FLOOR PLAN 1

Scale: 1/4"=1'-0" E-100

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

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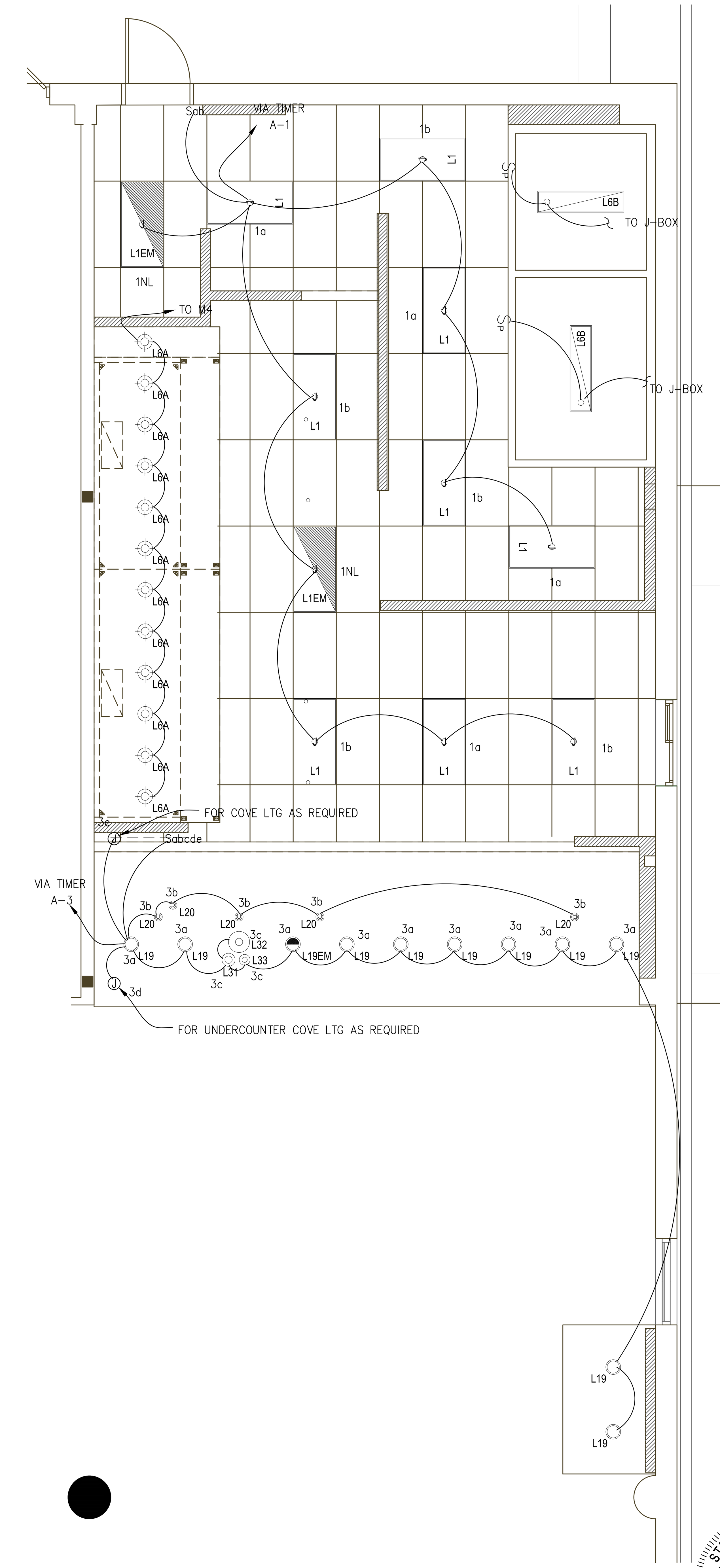
E-100

POWER FLOOR PLAN

1. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS WITH 20% OR LESS THD.
2. CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE INSTALLATION.
3. ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, SHEET 4 / E-4.00.
4. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
5. ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
6. G.C. SHALL INSTALL OWNER SUPPLIED LED & CUT TO PROPER LENGTH
7. WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
8. ALL FLUORESCENT FIXTURES SHALL HAVE INTEGRAL DISCONNECTING MEANS PER 2005 NEC 410.73(G) and 2008 NEC 410.130(G)(1).
9. ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
10. 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.
11. EGRESS ILLUMINATION LEVEL WILL MEET OR EXCEED PROVISIONS OF CBC 1006.2.

LIGHTING GENERAL NOTES 2
NOT TO SCALE E-101



STATE OF MARYLAND
DONALD J. PENN
PROFESSIONAL ENGINEER
6/21/17

LIGHTING FLOOR PLAN 1
Scale: 1/4"=1'-0" E-101

CONSTRUCTION SET - 2017/07/30

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E-101

LIGHTING FLOOR PLAN

ROOFTOP EQUIPMENT SCHEDULE

TAG	DESCRIPTION	kW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
AC-1	AC UNIT			16.4	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	30AS/15AF
MA-1	MAKE-UP AIR UNIT		5.0	7.6	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	1
CD-1	MAKE-UP AIR COND. UNIT			8.5	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	30AS/15AF
CD-2	MAKE-UP AIR COND. UNIT			8.5	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	30AS/15AF
EF-1	EXHAUST FAN		2.0	3.4	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	1
EF-2	EXHAUST FAN		2.0	3.4	460V.3Ø	3 #12, #12GND., 3/4" C.		AT UNIT	1
31-S	W/I COOLER COND.		1.5	10.0	208V.1Ø	2 #12, #12 GND., 3/4" C.		AT UNIT	2 3
32-S1	W/I FREEZER COND.		1.5	10.0	208V.1Ø	2 #12, #12 GND., 3/4" C.		AT UNIT	2 3
10J-S1	ICE MAKER COND.		1.5	11.8	208V.1Ø	2 #12, #12 GND., 3/4" C.		AT UNIT	2 3

1 DISCONNECT SWITCH PROVIDED WITH UNIT.

2 COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.

3 COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104

1. ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
2. ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
3. NOT USED.
4. VERIFY ALL FUSE SIZES AND TYPES WITH THE AIR CONDITIONING EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
5. REVIEW THE MECHANICAL PLANS FOR THE AIR CONDITIONING CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
6. VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100.
7. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
8. G.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE.
9. RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT AND CONTROLLED VIA 2-POLE SWITCHES IN EACH BACK OF HOUSE. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.
10. PROVIDE ELECTRICAL STUB AND GFCI OUTLET ON HINGED SIDE OF EXHAUST FAN. COORDINATE WITH MECHANICAL CONTRACTOR.

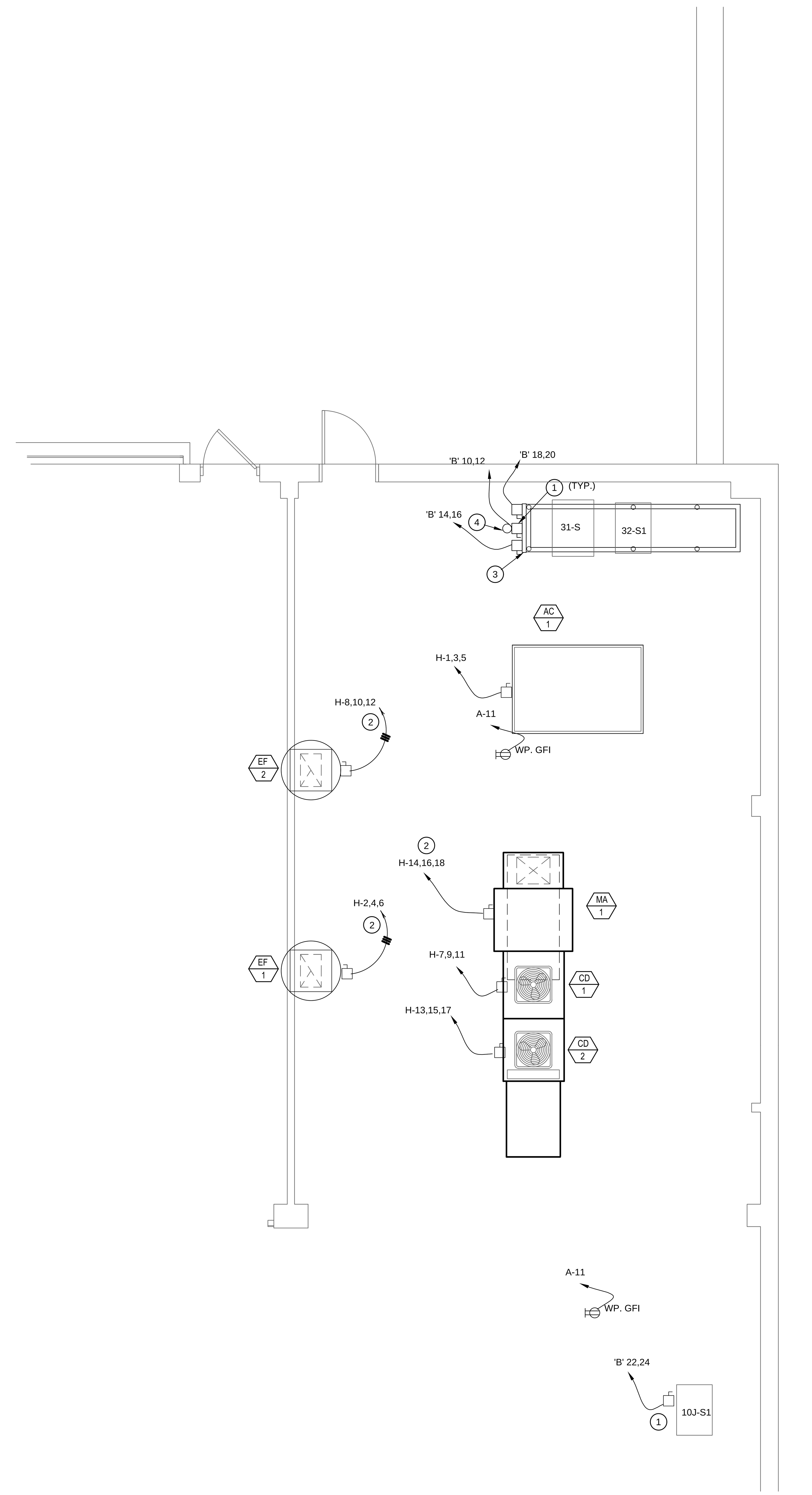
ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

1. REFER TO CONDENSING UNIT WIRING DIAGRAM, SHEET 7 / E-400.
2. ROUTE CIRCUITRY THROUGH HOOD CONTROL PANEL 'M4'. REFER TO DETAIL, SHEET 3 / E-401.
3. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2 / E-401.
4. MOUNT PHOTOCELL AS DETAILED ON SHEET 11-E400 ON CONDENSER RACK.

ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104



ROOF POWER PLAN 1

1/4" = 1'-0" E-104

CONSTRUCTION SET - 2017/07/30

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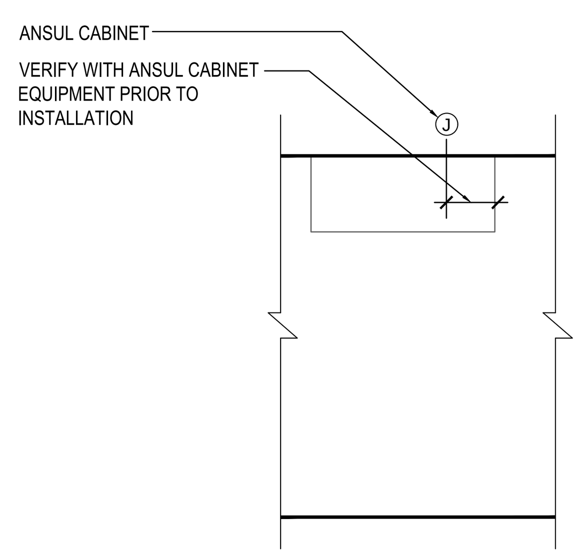
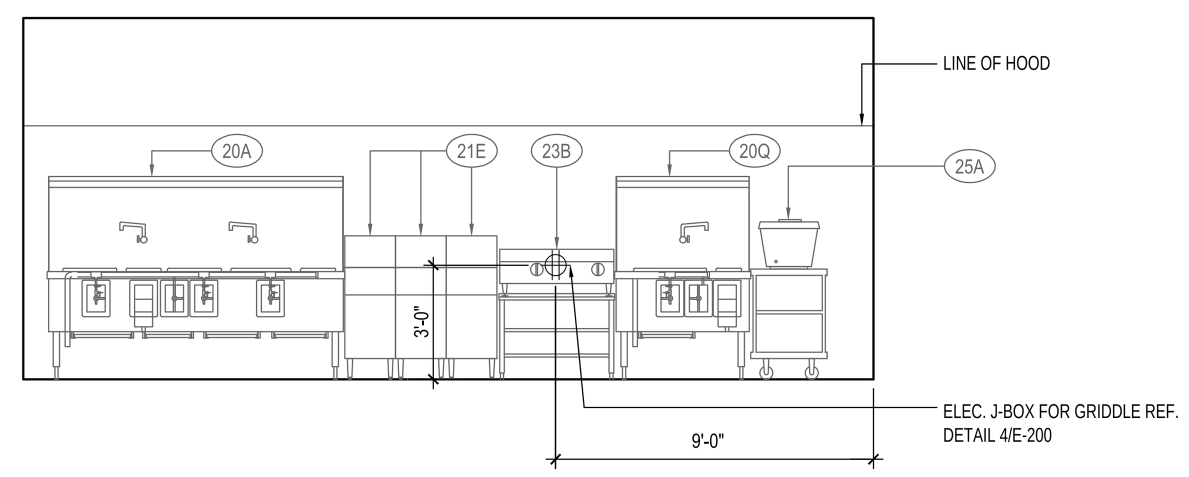
E-104

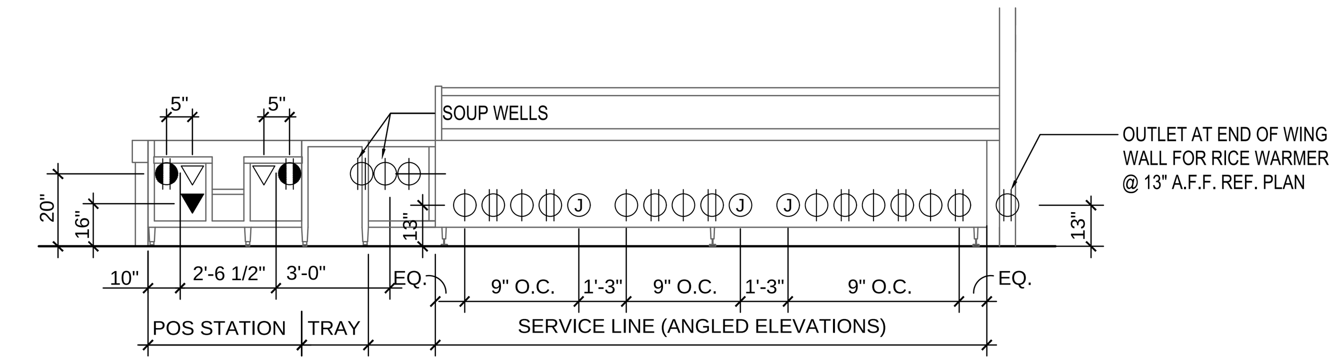
ROOF POWER PLAN



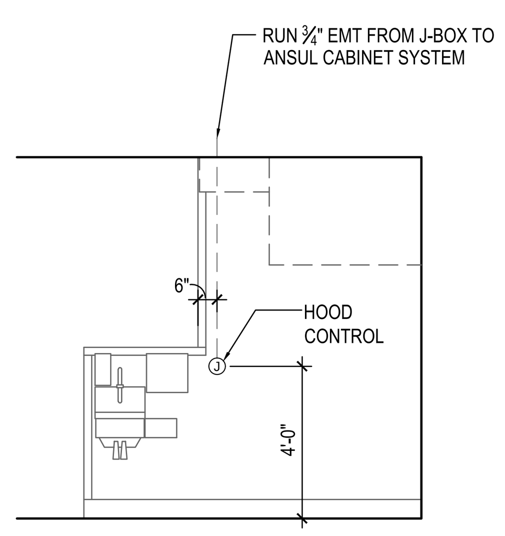
ANSUL PULL 8
NOT TO SCALE E-200



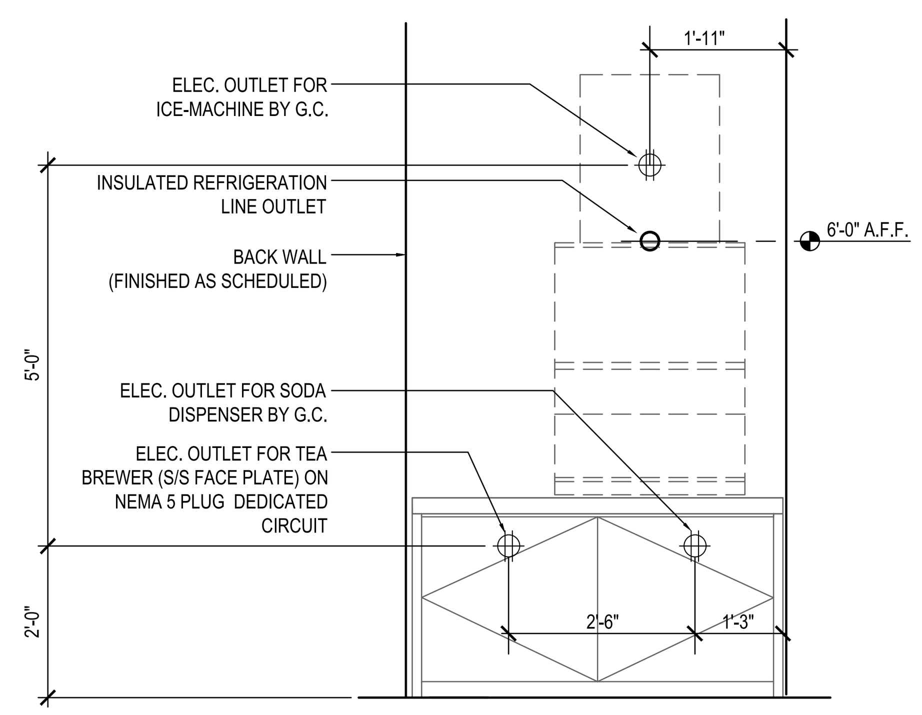
COOKLINE ELECTRICAL ELEVATIONS 6
NOT TO SCALE E-200



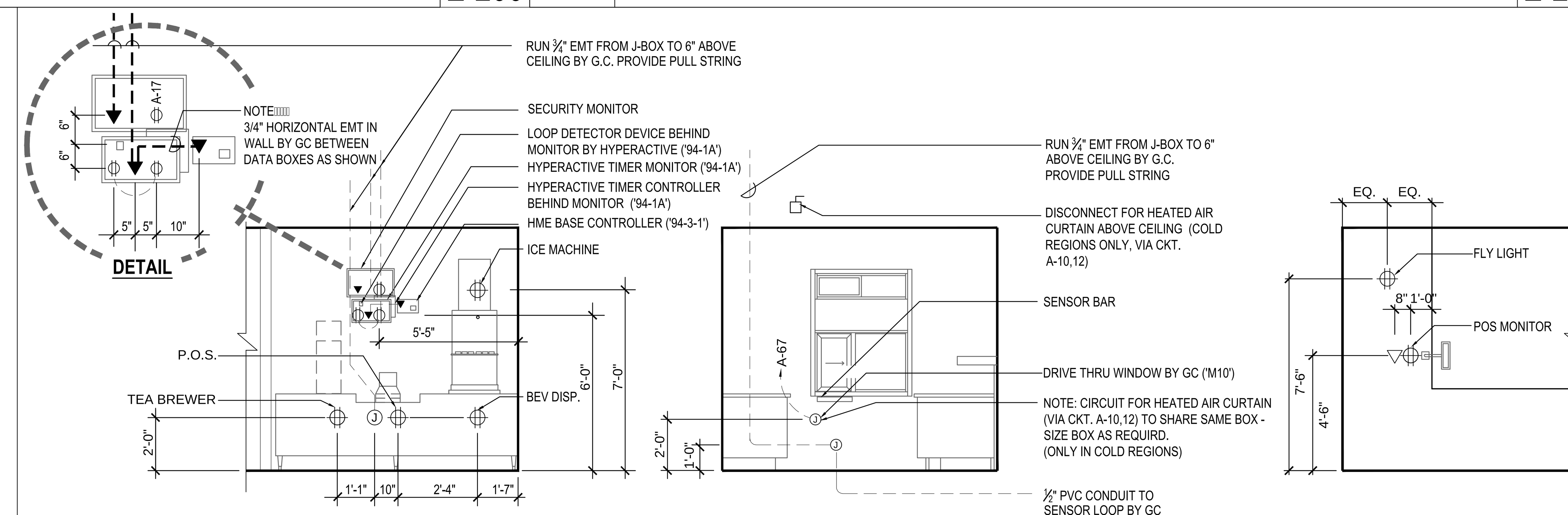
P.O.S. & SERVICE LINE ELEVATION 3
NOT TO SCALE E-200



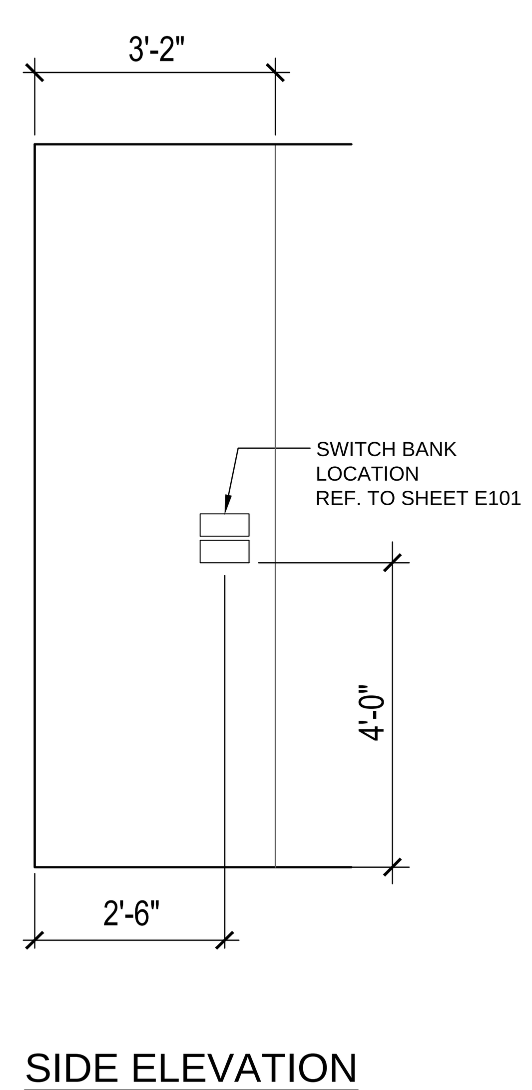
HOOD COONTROL 9
NOT TO SCALE E-200



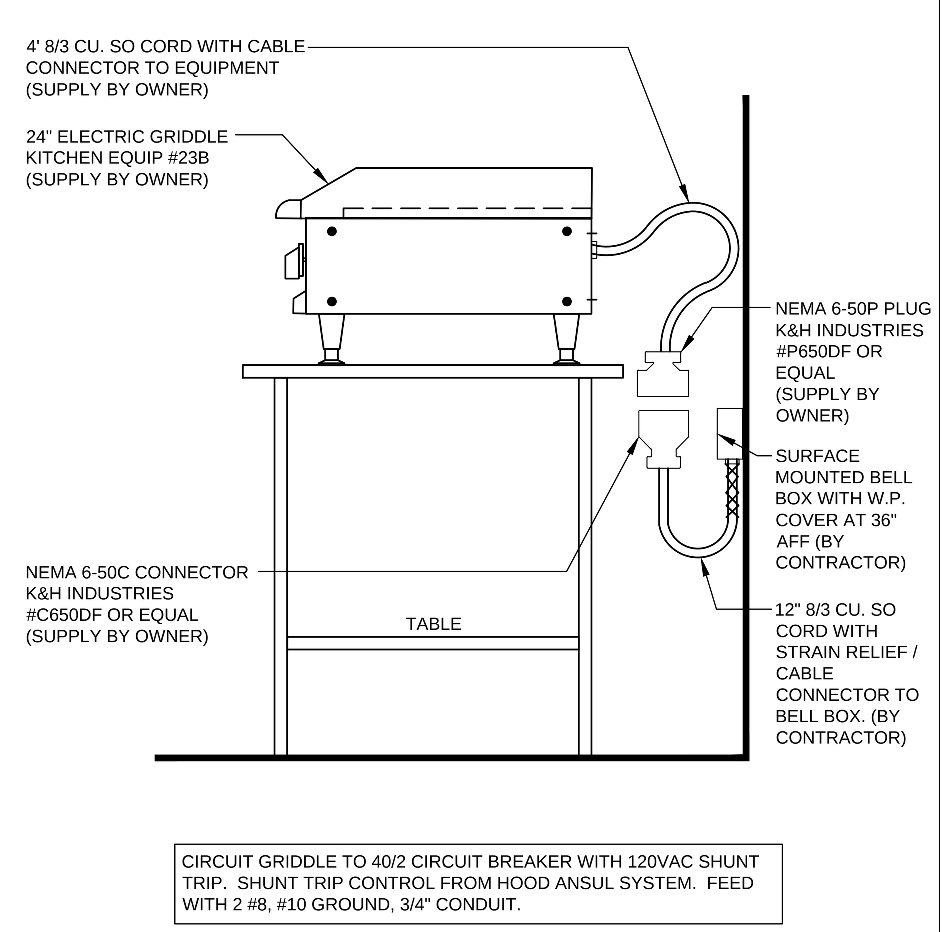
DRINK STATION ELEVATION 5
Scale: approx. 1/4"=1'-0" E-200



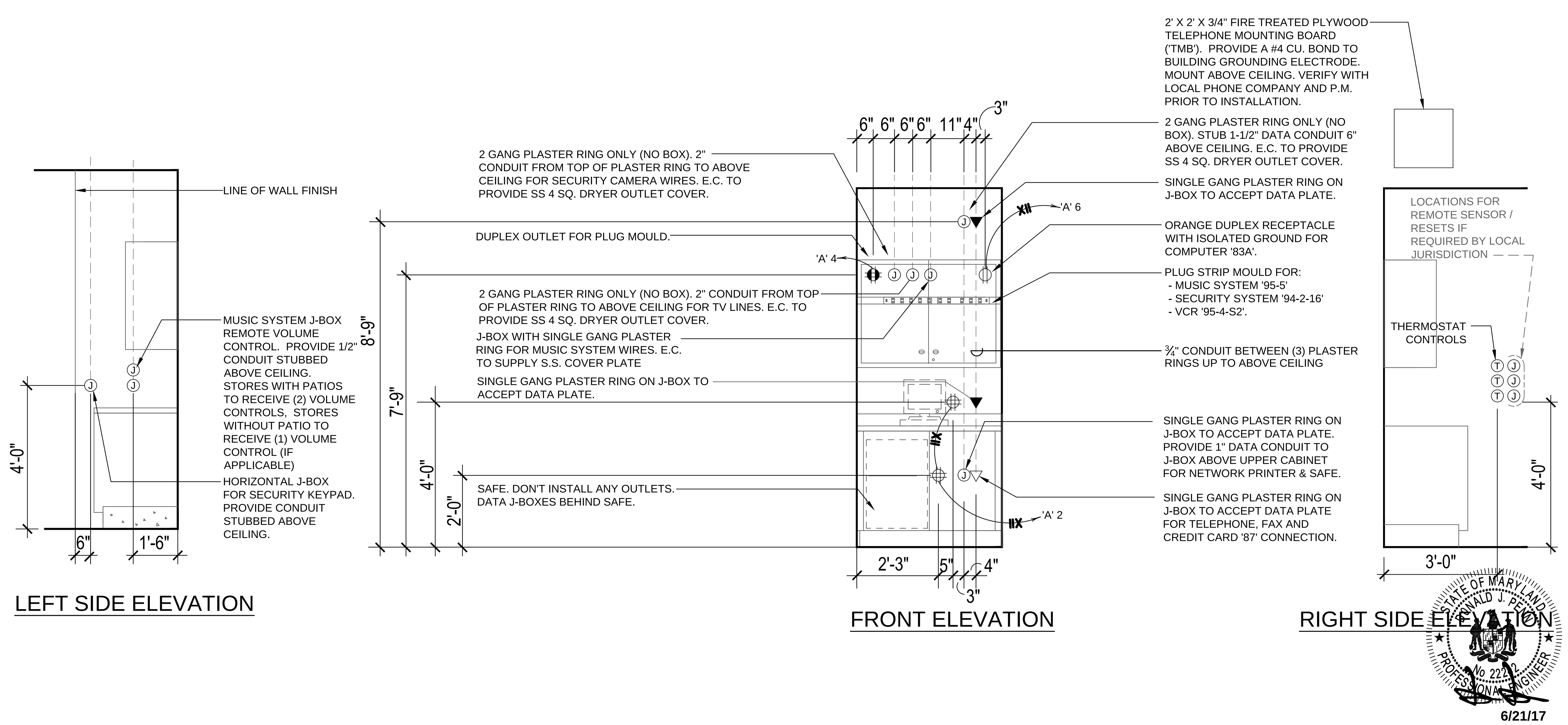
DRIVE-THRU ELEVATIONS 2
Scale: NOT TO SCALE E-200



SWITCH BANK ELEVATION 7
NOT TO SCALE E-200



GRIDDLE 23B (EG-24H) 4
NOT TO SCALE E-200



MANAGER STATION ELEVATIONS 1
NOT TO SCALE E-200

CONSTRUCTION SET - 2017/07/30

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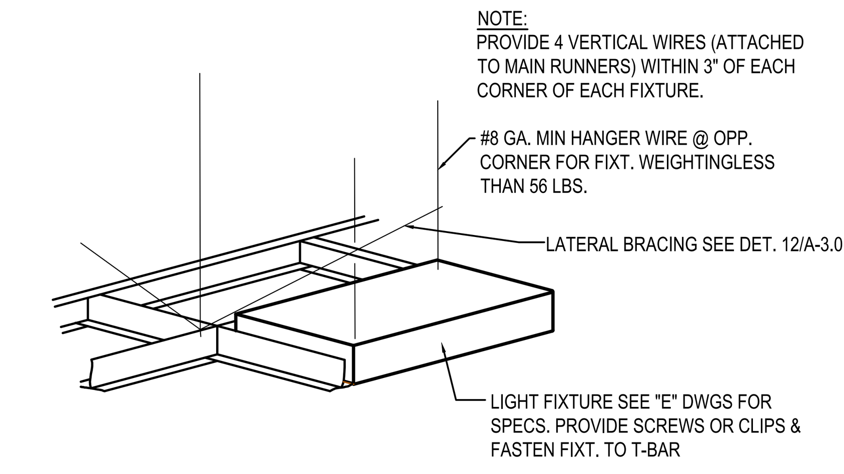
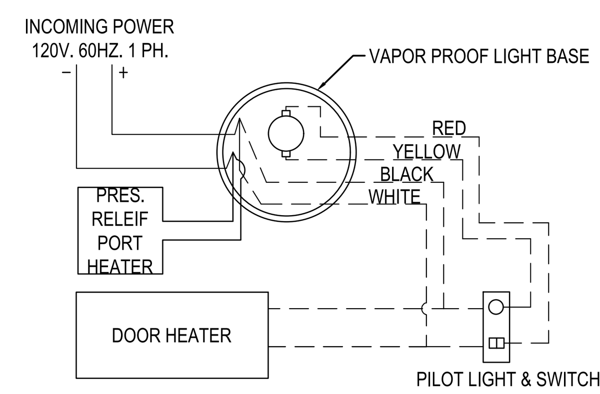
E-200

ELECTRICAL ELEVATIONS

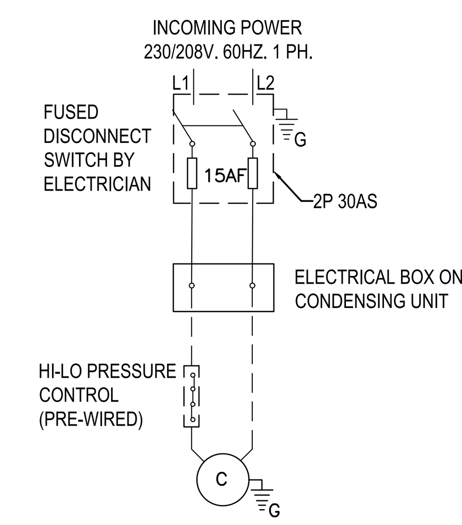
LIGHT FIXTURE DETAIL 4
NOT TO SCALE E-400



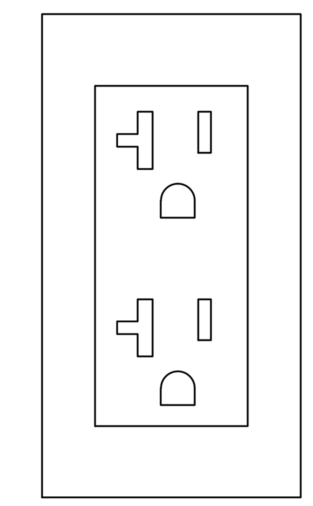
FREEZER LTG & DOOR HTR WIRING DIAGRAM 10
NOT TO SCALE E-400



CONDENSING UNIT 7
NOT TO SCALE E-400



RECEPT. DIAGRAM 3
NOT TO SCALE E-400



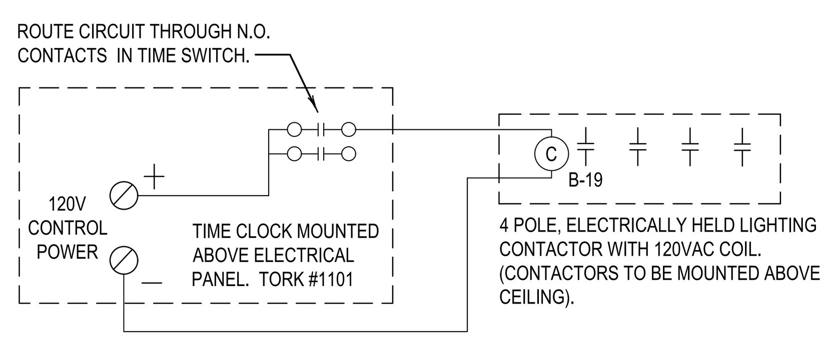
ALL OUTLETS TO MOUNT VERTICALLY WITH GROUND PLUG @ LOW POSITION, TYP. U.N.O.

1. IF SHOW WINDOW OUTLETS AT WHITE GYP. BD SOFFIT WHITE DEVICES WITH WHITE COVERPLATES .

2. IF SHOW WINDOW OUTLETS AT DARK T-BAR CEILING, BLACK DEVICES WITH BLACK COVERPLATES .

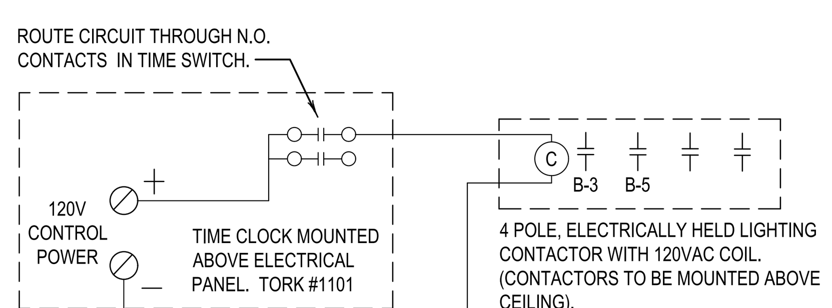
ALL OTHER OUTLETS IN KITCHEN, SERVICE AREA, DINING AREA AND RESTROOMS TO BE GREY DEVICES WITH STAINLESS STEEL COVERPLATES.

TIME CLOCKS 11
NOT TO SCALE E-400



CONTRACTOR TO LABEL TIMECLOCK "SIGNS"

C



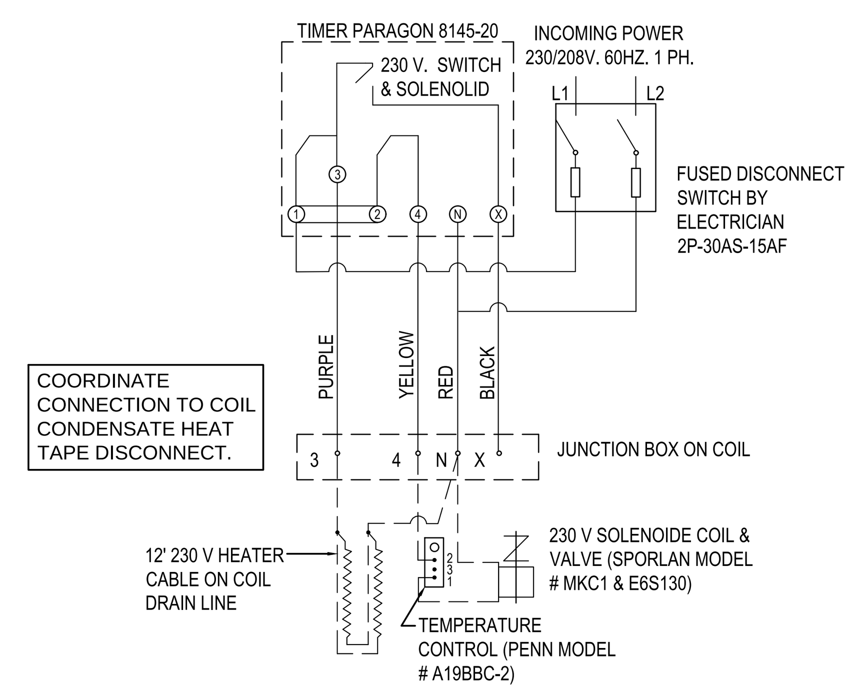
CONTRACTOR TO LABEL TIMECLOCK "INSIDE LIGHTS"

E

G.C. AND ELECTRICAN TO COORDINATE WITH PANDA PROJECT MANAGER FOR TIME SCHEDULE BEFORE FINAL SETTING ON TIME CLOCK.

DESIGNER NOTES : ALL LOCAL STATE INTERIOR LIGHTING CONTROL SHALL OVERRIDE ANY CONFIGURATION AS SHOWN. CONSULTANT TO VERIFY WITH ALL LOCAL AND CURRENT JURISDICTION.

FREEZER EVAPORATOR COIL 9
NOT TO SCALE E-400



WIC / WIF WIRING DIAGRAM NOTES 6
NOT TO SCALE E-400

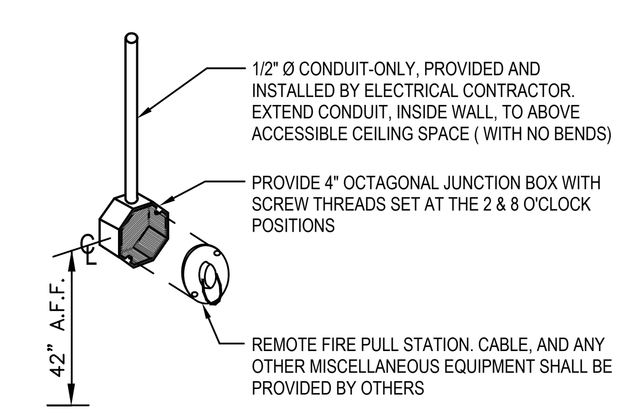
1. WIRING SHOULD BE DONE ACCORDING WITH NATIONAL AND LOCAL CODE.

2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.

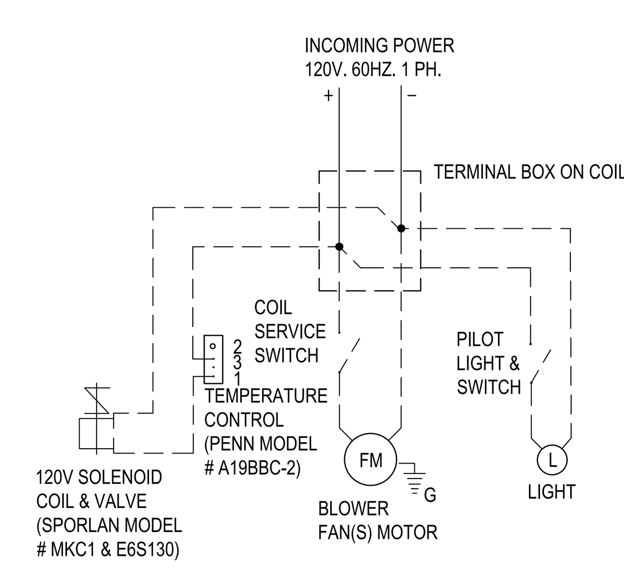
3. SOLID LINES TO BE WIRED BY LICENSED ELECTRICIAN ON SITE. DOTTED LINES ARE MANUFACTURE PRE-WIRED.

4. ANY PENETRATIONS THROUGH BOX SHALL BE SEALED AIR TIGHT.

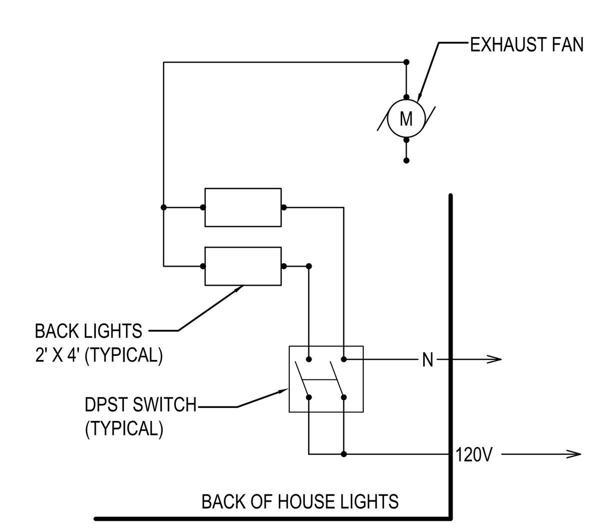
ANSUL PULL STATION DETAIL 2
NOT TO SCALE E-400



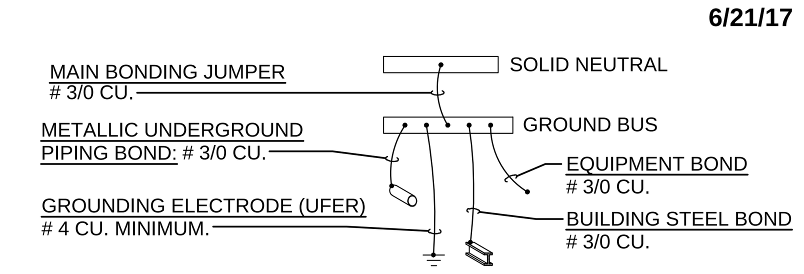
COOLER EVAPORATOR COIL 8
NOT TO SCALE E-400

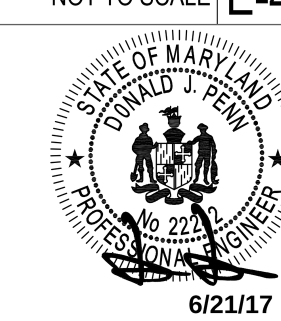


EXHAUST FAN CONTROL DIAGRAM 5
NOT TO SCALE E-400



'SES' GROUNDING DETAIL 1
NOT TO SCALE E-400





CONSTRUCTION SET - 2017/07/30

PANDA RESTAURANT GROUP INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

REVISIONS:

ISSUE DATE:

1	100% SUBMITTAL

CHECKED BY:
DRAWN BY: STAFF

PANDA PROJECT #: B1-17-D5167
ARCH PROJECT #:

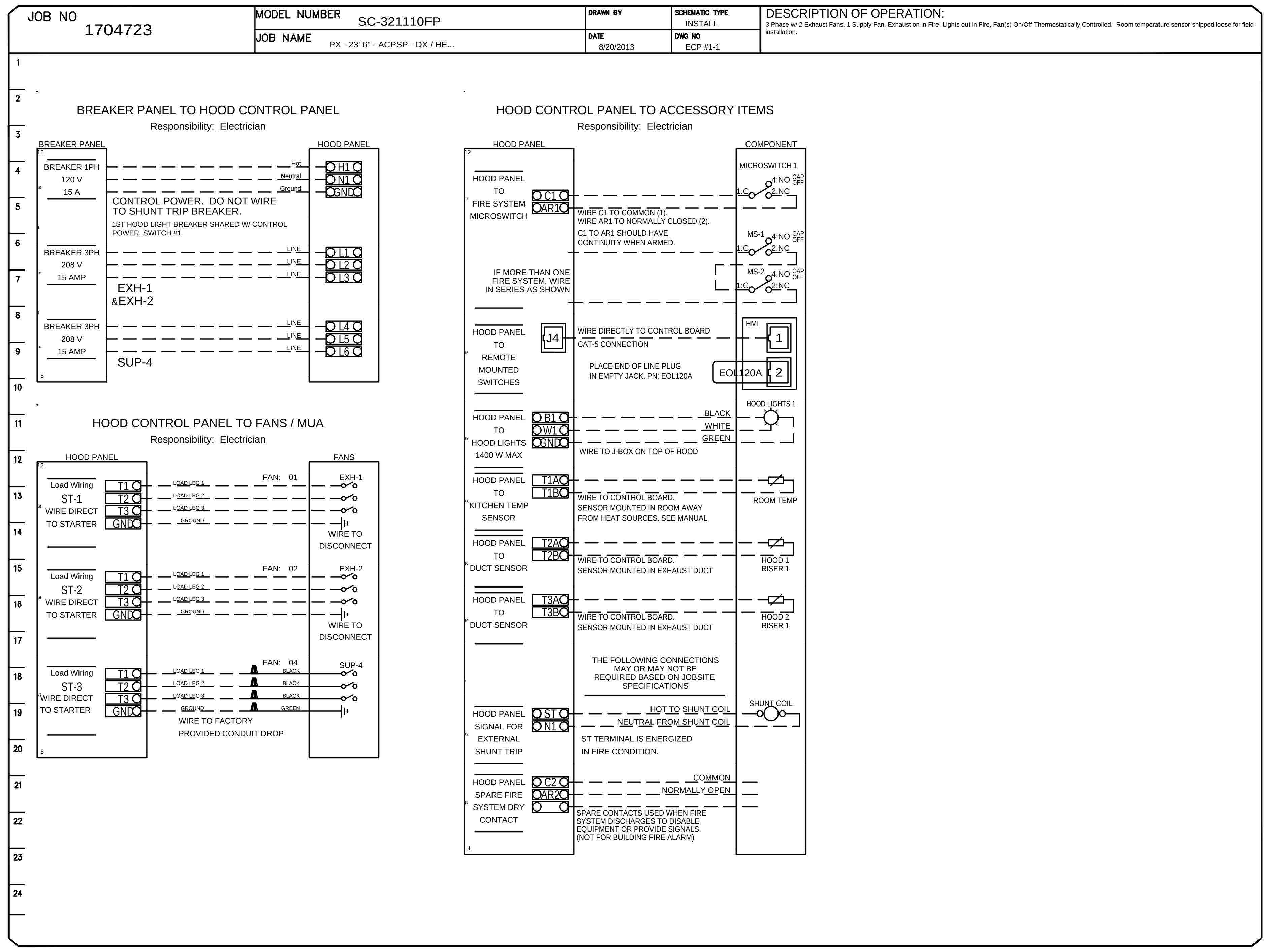
d p c e
don penn ▪ consulting engineer
1301 SOLANA BLVD., BLDG. 1, SUITE 1420
WESTLAKE, TEXAS 76262
Phone: 817-410-2858
Fax: 817-251-8411

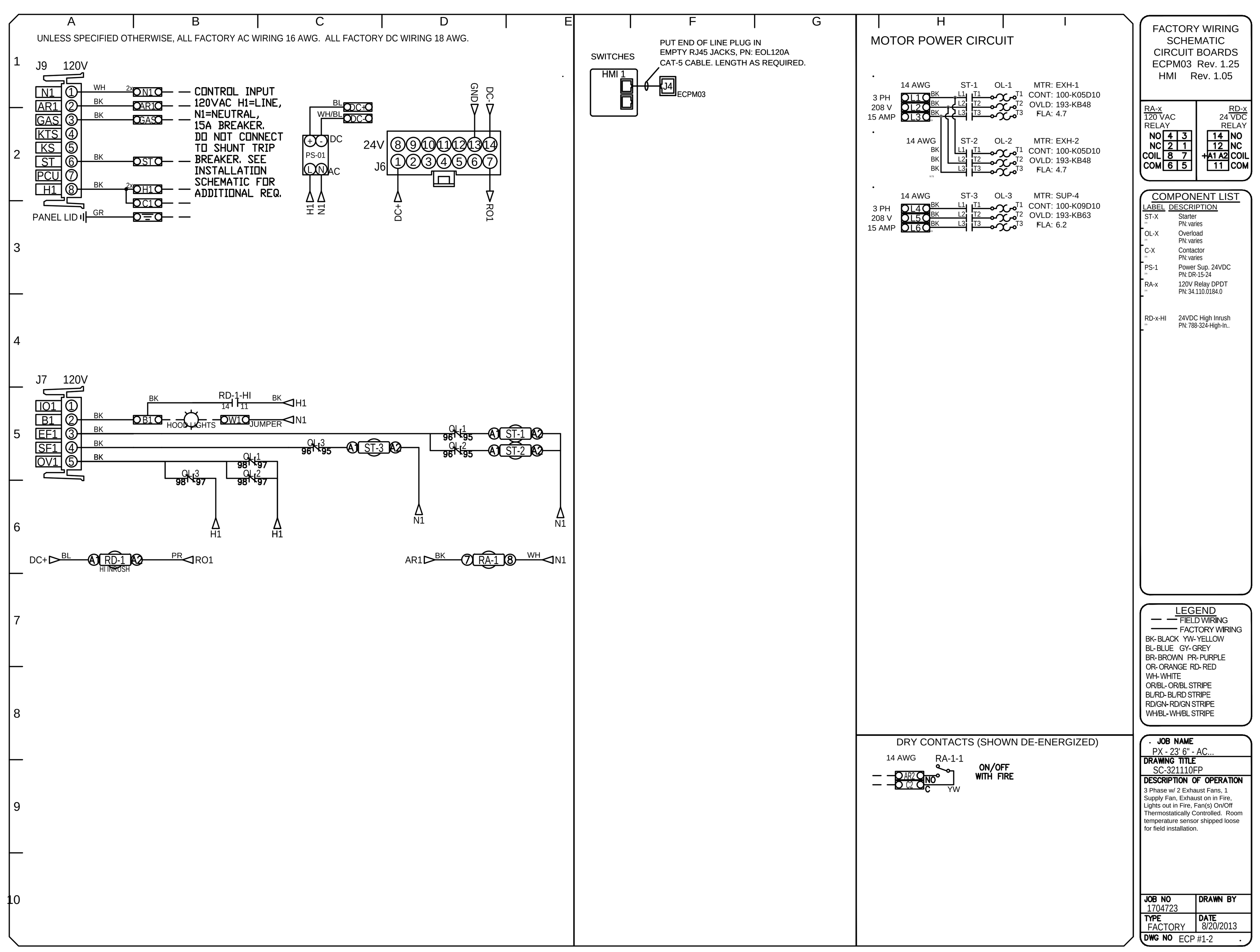
Professional Certification

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 22242 . Expiration Date: 02/03/19

PANDA EXPRESS
NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

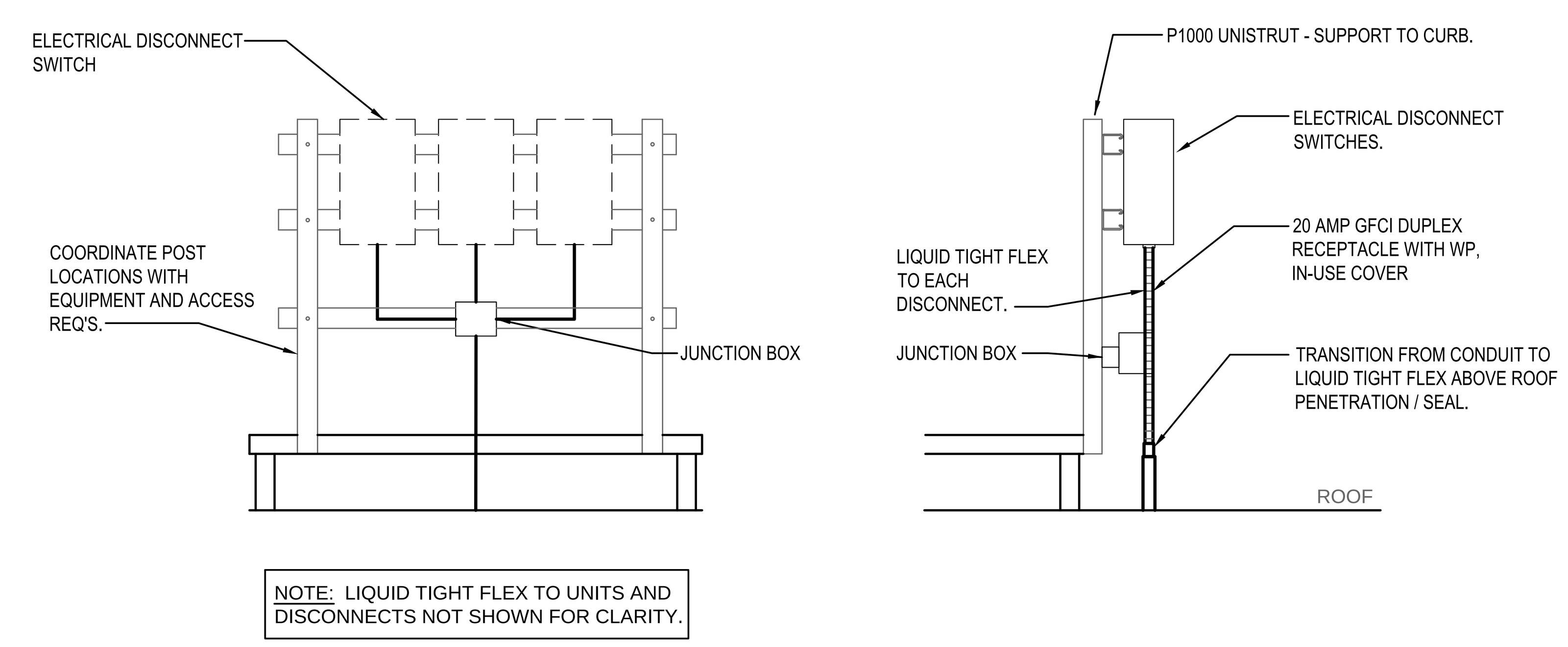
E-400
ELECTRICAL DETAILS, DIAGRAMS





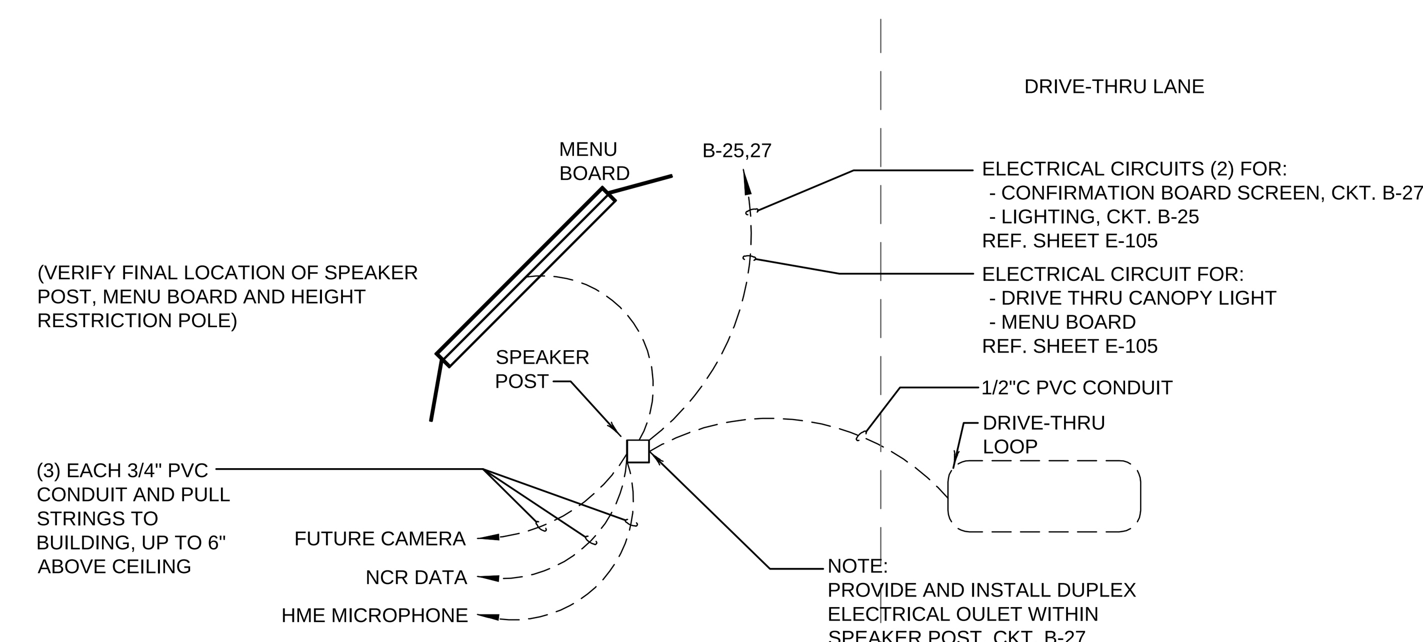
KITCHEN EXHAUST SYSTEM DIAGRAM 3

NOT TO SCALE E-401



EQUIPMENT DISCONNECT SWITCH SUPPORT 2

NOT TO SCALE E-401



MENU BOARD & SENSOR LOOP 1

E-401

PANDA RESTAURANT GROUP INC.
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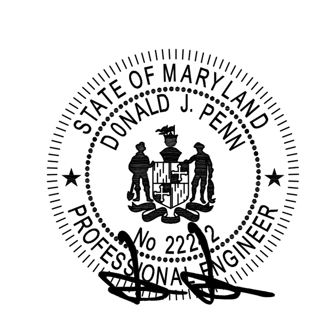


CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

E-401

ELECTRICAL DETAILS, DIAGRAMS

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

(E) PNL "H"

VOLTAGE (V) 277/480 3PH 4W BUS 225 (A) MAIN CB 200/3 AIC VERIFY (A) MTD. FLUSH

DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	LOAD CODE	OUTLETS LTG	OUTLETS REC	OUTLETS MISC	CB A/P	CIR NO	CIR NO	CB A/P	OUTLETS MISC	OUTLETS REC	OUTLETS LTG	LOAD CODE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	DESCRIPTION
AC-1	4543			L			1	25/3	1	2	15/3	1			O	942			EF-1
"		4543		L				"	3	4	"				O		942		"
"			4543	L				"	5	6	"				O			942	"
CD-1	2355			O			1	15/3	7	8	15/3	1			L	942			EF-1
"		2355		O				"	9	10	"				L		942		"
"			2355	O				"	11	12	"				L			942	"
CD-2	2355			O			1	15/3	13	14	15/3	1			O	2105			MA-1
"		2355		O				"	15	16	"				O		2105		"
"			2355	O				"	17	18	"				O			2105	"
									19	20	70/3	1			O	14197			45KVA X'FMR/"A"
									21	22	"				O		14197		"
									23	24	"				O			14197	"
									25	26									
									27	28									
									29	30									
									31	32									
									33	34									
									35	36									
									37	38									
									39	40									
									41	42									
	9253	9253	9253													18186	18186	18186	

TOTAL CONN. LOAD		82317		(VA)	
L.C.L. & L. M.	16455	x1.25	20569	(VA)	
KIT. EQUIP	0		0	(VA)	(K=> 6 @ 65%)
REC. <=10KVA	0		0	(VA)	(1ST 10 KVA x100 %)
REC. REMAINDER	0	x0.5	0	(VA)	
OTHERS LOAD	65862	x1	65862	(VA)	
TOTAL LOAD			86431	(VA)	104 (A)

LOAD CODE
K KITCHEN
L LONG CONT. LOAD / LARGEST MOTOR
O OTHERS
R RECEPTACLE

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

(1)

(N) PNL "A"

VOLTAGE (V) 120/208 3PH 4W BUS 225 (A) MAIN CB 150/3 AIC 10,000 (A) MTD. FLUSH

DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	LOAD CODE	OUTLETS LTG	OUTLETS REC	OUTLETS MISC	CB A/P	CIR NO	CIR NO	CB A/P	OUTLETS MISC	OUTLETS REC	OUTLETS LTG	LOAD CODE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	DESCRIPTION
(2) LTG	560			L				20/1	1	2	20/1	1			R	180			MANAGER ST
(2) LTG		360		L				20/1	3	4	20/1	1			R		180		MANAGER ST
HOOD CONTROL PNL			500	O			1	20/1	5	6	20/2	1			K			800	MICROWAVE
SPARE								20/1	7	8	"				K	800			"
CASHIER		360		R		2		20/1	9	10	20/1	2			K		516		FOOD PROC.
ROOF REC.			360	R		2		20/1	11	12	20/1	2			R			792	MONITOR/AIR CURTAIN
PREP. TABLE #34A	1440			K			1	20/1	13	14	20/1		5		R	900			TV MENU
FREEZER #30K		792		K			1	20/1	15	16	20/1	2			K		1200		SODA/ICE MAKER
PREP. TABLE #34C			1080	K			1	20/1	17	18	20/1	3			K			972	AIR CURTAIN
WATER HEATER	3000			K			1	40/2	19	20	20/1	1			K	200			MENU
"		3000		K				"	21	22	20/1								SPARE
SODA/ICE MAKER			1200	K			2	20/1	23	24	20/1								SPARE
FRYER	180			K			1	*20/1	25	26	20/1								SPARE
SPACE									27	28	20/1								SPARE
SPACE									29	30	20/1								SPARE
HOLDING CAB.#24	1800			K			1	*20/1	31	32									
ELE. GRILL #23G		3000		K			1	*40/3	33	34									
"			3000	K				"	35	36									
"	3000			K				"	37	38	100/3	1			O	6453			PNL"B"
SPACE									39	40	"				O		6453		"
SIGN			1200	L			1	20/1	41	42	"				O			6453	"
	9980	7512	7340													8533	8349	9017	

TOTAL CONN. LOAD		50731		(VA)	
L.C.L. & L. M.	2120	x1.25	2650	(VA)	
KIT. EQUIP	25980		16887	(VA)	(K=> 6 @ 65%)
REC. <=10KVA	2772		2772	(VA)	(1ST 10 KVA x100 %)
REC. REMAINDER	0	x0.5	0	(VA)	
OTHERS LOAD	19859	x1	19859	(VA)	
TOTAL LOAD			42168	(VA)	117 (A)

*: PROVIDE SHUNT TRIP CB TRIPPED BY HOOD FIRE SYSTEM.

LOAD CODE
K KITCHEN
L LONG CONT. LOAD / LARGEST MOTOR
O OTHERS
R RECEPTACLE

∗ LOAD SHOWN AT 125% PER NEC. □ EXISTING CIRCUIT BREAKER. ● EXISTING LOAD REMOVED AT DEMO, NEW USE/LABEL AS SHOWN.
PROVIDE LOCK-ON/OFF DEVICE AT CIRCUIT BREAKER. ○ EXISTING CIRCUIT BREAKER REMOVED AND REPLACED AS SHOWN.

(1) PROVIDE OVERSIZED PANEL CAN (LISTED FOR USE) TO HOUSE CONTROL CONTACTORS. REFER TO DETAILS, SHEET 11 / E-400

(2) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11 / E-400.

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

(N) PNL "B"

VOLTAGE (V) 120/208 3PH 4W BUS 125 (A) MAIN CB MLO AIC 10,000 (A) MTD. FLUSH

DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	LOAD CODE	OUTLETS LTG	OUTLETS REC	OUTLETS MISC	CB A/P	CIR NO	CIR NO	CB A/P	OUTLETS MISC	OUTLETS REC	OUTLETS LTG	LOAD CODE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	DESCRIPTION
WARMER X3	1950			K			3	20/1	1	2	20/1	1			K	1000			W.I. COOLER
WARMER X3		1950		K			3	20/1	3	4	20/1	1			K		1000		W.I. FREEZER
WARMER X3			1300	K			2	20/1	5	6	20/2	1			K			1040	W.I. FREEZER COIL
WARMER X3	1950			K			3	20/1	7	8	"				K	1040			"
WARMER X3		1950		K			3	20/1	9	10	20/2	1			K		1040		WI COOLER COMP.
WARMER X3			1950	K			3	20/1	11	12	"				K			1040	"
WARMER X3	1300			K			2	20/1	13	14	20/2	1			K	1040			W.I. FREEZER COMP.
RADIANT HEAT 1S2B1		917		K			1	20/1	15	16	"				K		1040		"
RADIANT HEAT 1S2B2			1104	K			1	20/1	17	18	20/2	1			K			1227	ICE MAKER COND.
RADIANT HEAT 1S2B2	1104			K			1	20/1	19	20	"				K	1227			"
RICE WARMER		180		K			1	20/1	21	22	20/2	1			K		1227		ICE MAKER COND.
CONV./WARMER 3T			980	K		1	1	20/1	23	24	"				K			1227	"
									25	26									
									27	28									
									29	30									
									31	32									
									33	34									
									35	36									
									37	38									
									39	40									
									41	42									
	6304	4997	5334													4307	4307	4534	

TOTAL CONN. LOAD		29783		(VA)	
L.C.L. & L. M.	0	x1.25	0	(VA)	
KIT. EQUIP	29783		19359	(VA)	(K=> 6 @ 65%)
REC. <=10KVA	0		0	(VA)	(1ST 10 KVA x100 %)
REC. REMAINDER	0	x0.5	0	(VA)	
OTHERS LOAD	0	x1	0	(VA)	
TOTAL LOAD			19359	(VA)	54 (A)

LOAD CODE
K KITCHEN
L LONG CONT. LOAD / LARGEST MOTOR
O OTHERS
R RECEPTACLE

∗ LOAD SHOWN AT 125% PER NEC. □ EXISTING CIRCUIT BREAKER. ● EXISTING LOAD REMOVED AT DEMO, NEW USE/LABEL AS SHOWN.
PROVIDE LOCK-ON/OFF DEVICE AT CIRCUIT BREAKER. ○ EXISTING CIRCUIT BREAKER REMOVED AND REPLACED AS SHOWN.

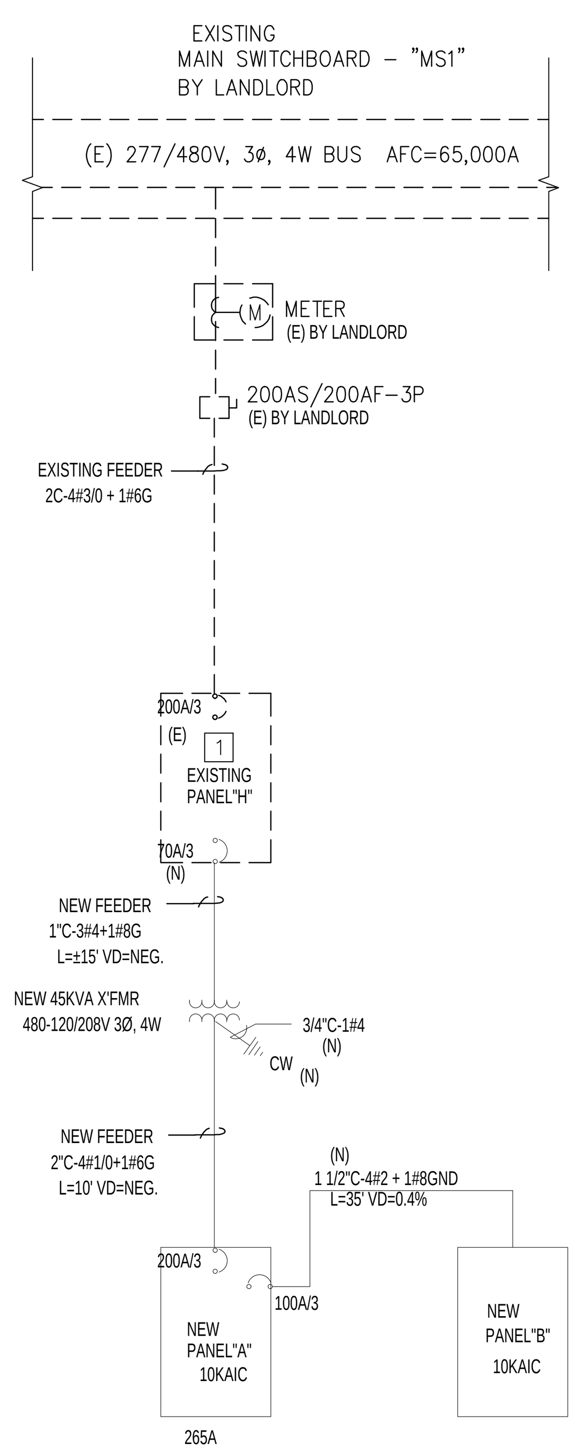
PANEL SCHEDULES 1
NOT TO SCALE E-601

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.

SINGLE LINE DIAGRAM GENERAL NOTES 3
NOT TO SCALE E-601

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE METER DISC SW. FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'H' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 65,000 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES 4
NOT TO SCALE E-601



SINGLE LINE DIAGRAM
NO SCALE

SINGLE LINE NOTES:

1. THIS DRAWING INDICATES EXISTING CONDITIONS WHICH WERE TAKEN FROM RECORD DRAWINGS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THESE CONDTIONS. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND TO EXERCISE CAUTION IN THE DEMOLITION PROCESS AND PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED.
2. BEFORE COMMENCING WORK, THE CONTRACTOR IS TO REVIEW COMPLETE SET OF DEMOLITION WORKING DRAWINGS FOR ADDTIONAL INFORMATION, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH EQUIPMENT BEING REMOVED, COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH OTHER DISCIPLINES.
3. EXISTING EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED IS TO REMAIN IN USE AND CIRCUIT CONTINUITY SHOULD BE MAINTAINED AT ALL TIMES.
4. NEW WORK, INDICATED ON THIS DRAWING WITH HEAVIER SOLID LINES AND REFERENCE NOTES, SHALL BE PERFORMED BY PHASE PRIOR TO OR IN CONJUNCTION WITH DEMOLITION WORK.

LEGENDS

NEW WORK
EXISTING TO REMAIN, U.O.N.
DEMOLITION

(E): EXISTING
(N): NEW
(R): EXISTING EQUIPMENT TO BE RELOCATED AND REPLACED WITH NEW..

KEY NOTES:

1 EXISTING PANELS TO REMAIN. RELOCATED AS REQUIRED.
ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING AT PANEL "H".
ALL SERIES RATED PANELS SHALL BE MARKED PER ARTICLE 110–22.

STATE OF MARYLAND DONALD J. PENN No. 22242 PROFESSIONAL ENGINEER
6/21/17

SINGLE LINE DIAGRAM 2
NOT TO SCALE E-601

CONSTRUCTION SET - 2017/07/30

PANDA EXPRESS CHINESE KITCHEN

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PANDA EXPRESS

NAS PAX RIVER
PAX RIVER NAVY BASE
PATUXENT RIVER, MD

E-601

PANELS, SINGLE LINE, LOAD CALC'S