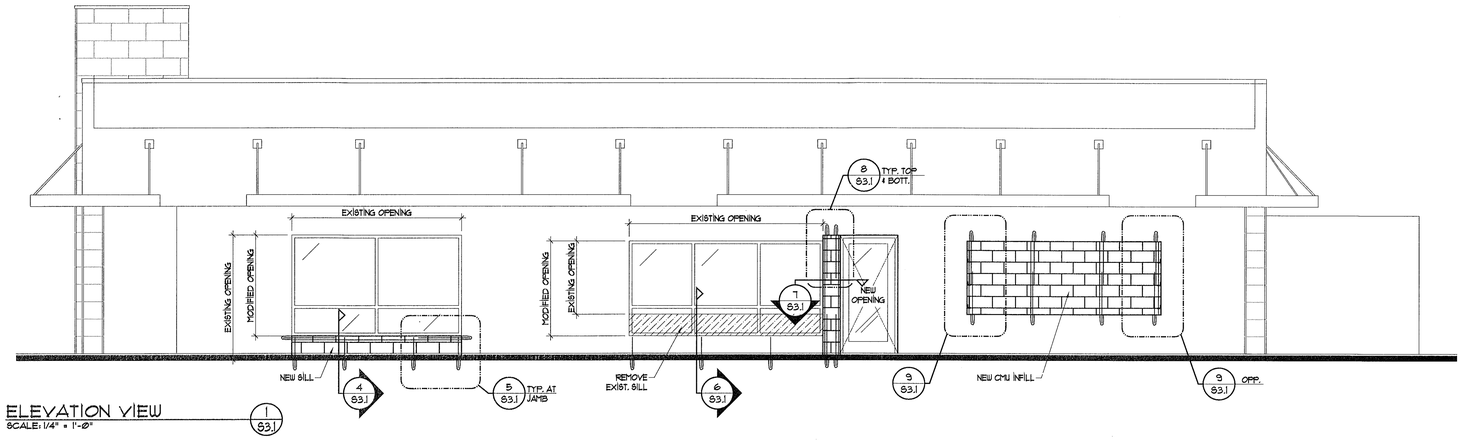
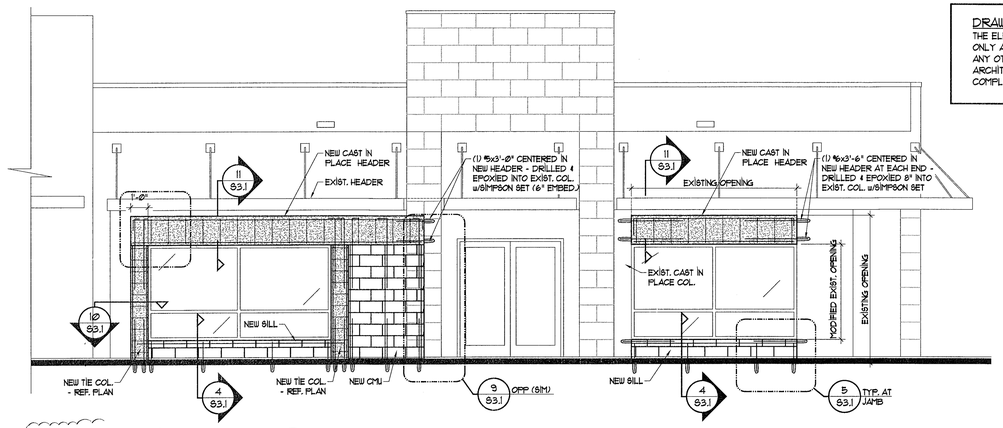
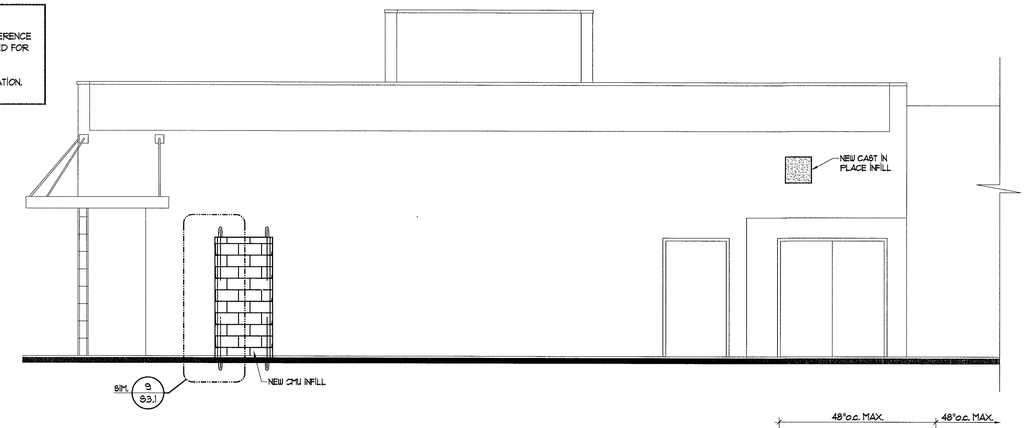


ELEVATION VIEW 1 S3.1
SCALE: 1/4" = 1'-0"

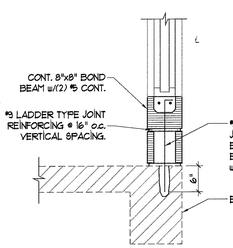


ELEVATION VIEW 2 S3.1
SCALE: 1/4" = 1'-0"

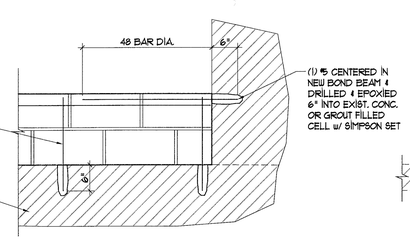
DRAWING USAGE NOTE:
THE ELEVATIONS ARE FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. SEE ARCHITECTURAL PLANS FOR COMPLETE ELEVATION INFORMATION.



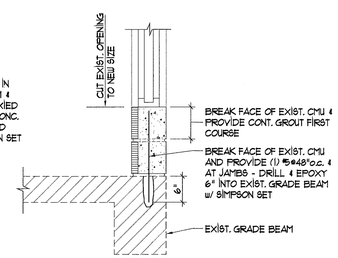
ELEVATION VIEW 3 S3.1
SCALE: 1/4" = 1'-0"



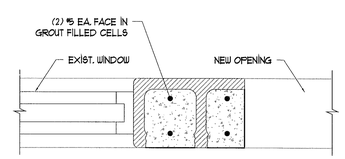
SECTION 4 S3.1
SCALE: 3/4" = 1'-0"



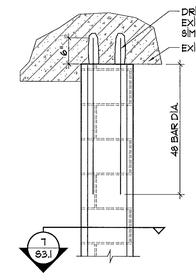
DETAIL 5 S3.1
SCALE: 3/4" = 1'-0"



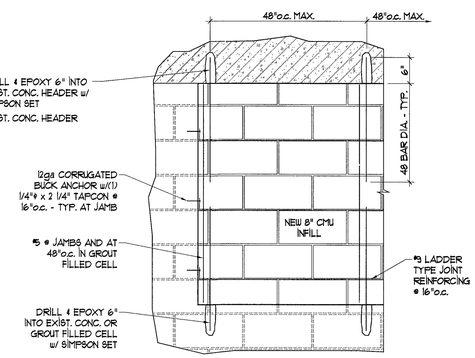
SECTION 6 S3.1
SCALE: 3/4" = 1'-0"



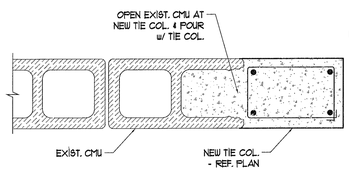
PLAN VIEW 7 S3.1
SCALE: 1 1/2" = 1'-0"



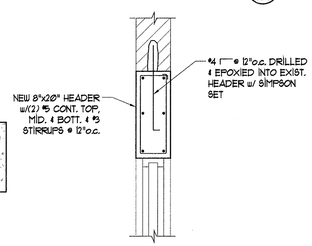
DETAIL 8 S3.1
SCALE: 3/4" = 1'-0"



SECTION 9 S3.1
SCALE: 3/4" = 1'-0"



PLAN VIEW 10 S3.1
SCALE: 1 1/2" = 1'-0"



SECTION 11 S3.1
SCALE: 3/4" = 1'-0"

DETAIL 12 S3.1
SCALE: 3/4" = 1'-0"

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Murray G. Bryntesen
PE 37162

MAR 19 2013

PROFESSIONAL SEAL

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Renovation for:
Denny's
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

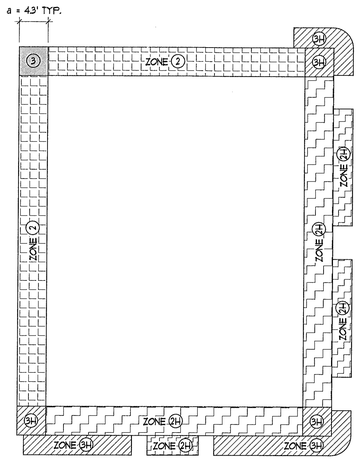
DRAWING REVISION DATES:
1 PERMIT REVISIONS 03-14-13

DETAILS

SHEET
S3.1

PROJECT: 12008
DATE: 01-30-13

ROOF UPLIFT DIAGRAM



SERVICE WIND PRESSURES (ASD) AS PER ASCE 7-10

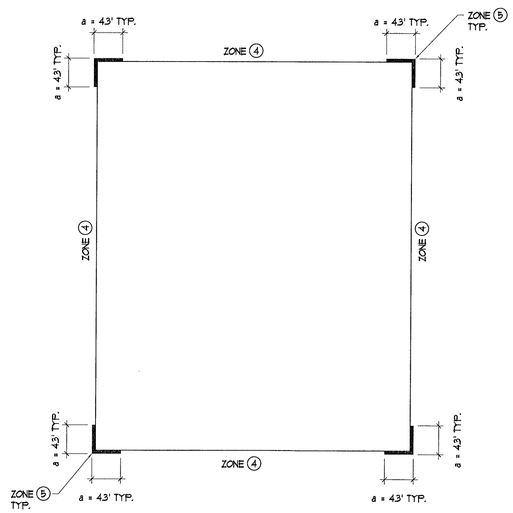
PRESSURES INDICATED IN THIS TABLE ARE CALCULATED SERVICE PRESSURES (0.6W) IN ACCORDANCE WITH ASCE 7-10

Kd = 0.85 — NOTE: USE THIS TABLE FOR ALL PRODUCTS WITH N.O.A. NUMBER

AREA a=4.3'	ZONE 1	ZONE 2	ZONE 3	ZONE 1H	ZONE 3H
≤19 sqft	+19.8 -48.6	+19.8 -81.6	+19.8 -122.8	+16.0 -120.0	+16.0 -115.3
20 sqft < A ≤ 49 sqft	+18.5 -47.4	+18.5 -72.9	+18.5 -101.7	+16.0 -68.8	+16.0 -90.6
50 sqft < A ≤ 99 sqft	+16.9 -45.1	+16.9 -61.4	+16.9 -73.8	+16.0 -67.2	+16.0 -57.8
100 sqft < A	+16.0 -44.5	+16.0 -52.7	+16.0 -52.7	+16.0 -65.9	+16.0 -33.0

V= 175 MPH
EXPOSURE "D"
RISK CATEGORY: II
INTERNAL PRESSURE COEFFICIENT = ± 0.18

WALL & WINDOW PRESSURE SCHEDULE



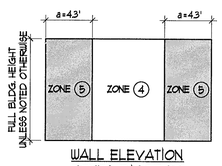
SERVICE WIND PRESSURES (ASD) AS PER ASCE 7-10

PRESSURES INDICATED IN THIS TABLE ARE CALCULATED SERVICE PRESSURES (0.6W) IN ACCORDANCE WITH ASCE 7-10

Kd = 0.85 — NOTE: USE THIS TABLE FOR ALL PRODUCTS WITH N.O.A. NUMBER

AREA a=4.3'	ZONE 4	ZONE 5
≤19 sqft	+44.5 -48.2	+44.5 -59.3
20 sqft < A ≤ 49 sqft	+42.5 -46.2	+42.5 -55.4
50 sqft < A ≤ 99 sqft	+39.9 -43.6	+39.9 -50.2
100 sqft < A ≤ 199 sqft	+37.9 -41.7	+37.9 -46.2
200 sqft < A	+36.0 -39.7	+36.0 -42.3

V= 175 MPH
EXPOSURE "D"
RISK CATEGORY: II
INTERNAL PRESSURE COEFFICIENT = ± 0.18



WALL ELEVATION ZONES DIAGRAM

COLUMN SCHEDULE

MARK	TYPE	SIZE W' x 'D'	VERTICAL REINFORCING	TIE SPACING	REMARKS
3	CONC.	8"x12"	(4) #5	#3 TIES @ 8" O.C.	

MARK	TYPE	SIZE	BASE PLATE w/ ANCHOR BOLTS
1	STEEL	HSS 3 1/2 x 3 1/2 x 5/16	12" x 12" x 3/4" w/(4) 3/4"ø ANCHOR BOLTS w/ 3"x3"x 1/4" WASHER PLATES U.N.O.
2	STEEL	HSS 3 1/2 x 3 1/2 x 5/16	REF. FOR BASE PLATE DETAIL

COLUMN SYMBOLS

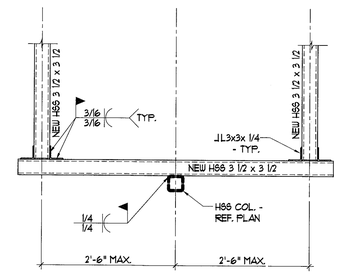
- COLUMN ABOVE / COLUMN BELOW
- COLUMN ABOVE
- COLUMN BELOW
- COLUMN CONTINUOUS

COLUMN SCHEDULE NOTES:

1. THE SCHEDULED SIZES ARE MINIMUM STRUCTURAL SIZES FOR REINFORCING STEEL FABRICATION ADDITIONAL CONCRETE MAY BE REQUIRED FOR ARCHIT. PURPOSES OR TO REACH WINDOW OR DOOR JAMB. ALL OVERALL COLUMN SIZES SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO FORMING.

FOOTING SCHEDULE

MARK	SIZE W' x 'D'	REINFORCING	REMARKS
TE-1	8" x 8" x CONT.	(1) #5 CONT.	THICKENED EDGE
F-36	3'-6" x 3'-6" x 1'-4"	(3) #5 EACH WAY TOP & BOTT.	

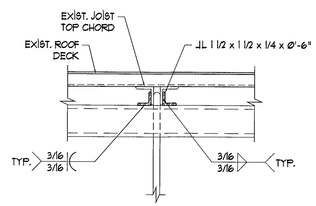


DETAIL 1/S4.0
SCALE: 3/4" = 1'-0"

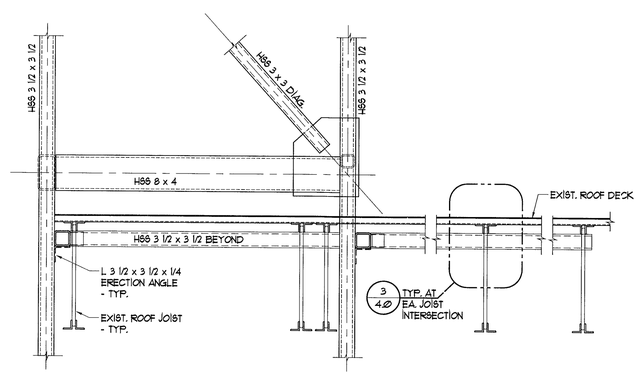
REINFORCED CONCRETE LINTEL SCHEDULE

WIDTH	HEIGHT	CLEAR SPAN IN FT.	REINFORCING TOP	REINFORCING BOT	TIES
7-5/8"	7-5/8"	UP TO 3'-0"	(2) #4	(2) #4	#2 @ 8" O.C.
7-5/8"	12"	3'-0" TO 7'-0"	(2) #5	(2) #5	#3 @ 8" O.C.
7-5/8"	16"	7'-0" TO 12'-0"	(2) #5	(2) #5	#3 @ 8" O.C.
11-5/8"	7-5/8"	UP TO 7'-0"	(2) #4	(2) #4	#3 @ 8" O.C.
11-5/8"	12"	7'-0" TO 9'-0"	(2) #5	(2) #5	#3 @ 8" O.C.
11-5/8"	16"	9'-0" TO 10'-0"	(2) #5	(2) #5	#3 @ 8" O.C.

PROVIDE 7-5/8" MINIMUM BEARING AT EACH SIDE OF OPENING



DETAIL 3/S4.0
SCALE: 1 1/2" = 1'-0"



SECTION 2/S4.0
SCALE: 3/4" = 1'-0"

PERMIT SET

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Email: bryntesen@bryntesen.com
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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
1 PERMIT REVISIONS 03-14-13

WIND PRESSURES & SCHEDULES

SHEET
S4.0

PROJECT: 12008
DATE: 01-30-13

HVAC DESIGN REQUIRMENTS

DESIGN REQUIRMENT	YES	NO
DUCT SMOKE DETECTOR	X	
FIRE DAMPERS(S)		X
SMOKE DAMPER(S)		X
FIRE RATED ENCLOSURE		X
FIRE RATED ROOF/FLOOR		X
CEILING ASSEMBLY		X
FIRE STOPPING		X
SMOKE CONTROL		X

Ventilation per TABLE 403.3

Ventilation Zone Name		Dining	Kitchen
1) **Minimum O/A required at Supply Outlet Voz:**			
a) *Occupant Category (table 6-1)*	*Occupant Rate Requirements* ***Rp =***	7.5	7.5
	Building Rate Requirements ***Ra =***	0.18	0.18
b) Estimated No. of Occupants in the Zone ***Pz =***		78	8
c) Zone Net Occupied Area ***Az =***		1915	800
d) O/A required in Breathing Zone (*eq. 6-1 Vbz =RpPz + RaAz*) ***Vbz =***		930	204
e) Zone Air Distribution Effectiveness (table 6-2) ***Ez =***		1	1
f) Min. O/A required at Supply Oultelts (Eq. 6-2 Voz = Vbz/Ez) ***Voz =***		930	204
Total O/A rate required :		1134 CFM	
SET O/A INTAKE FOR RTU#1:		**570 CFM**	
SET O/A INTAKE FOR RTU#2:		**570 CFM**	

TRANE	THC120
Nominal Tons	10.0
AC#	1 & 2
Total Capacity (MBH)	117.8
Sensible Capacity (MBH)	88.5
CFM	3700
ESP (" WG)	1.0"
Entering Air DB/WB	80 / 67
EER	12.5
IEER	14.0
Voltage/Phase/Hertz	208/3/60
Heater kW	18.0
Heating Capacity (MBH)	46.4
MCA	57.5
MOCP	60
Compressor RLA	20.5 / 13.5
Condenser Fan FLA	2.7
Blower HP	3.8
Blower FLA	8.5
Evaporator Rows/FPI	4/16
Evaporator Face Area	16.7
R-410A (lbs)	12.75 / 11.75
Unit Weight	1295
Filters	(3) 20x25x2 (2) 20x30x2
Unit Dimensions	99.7 x 63.2 x 50.9

MECHANICAL LEGEND

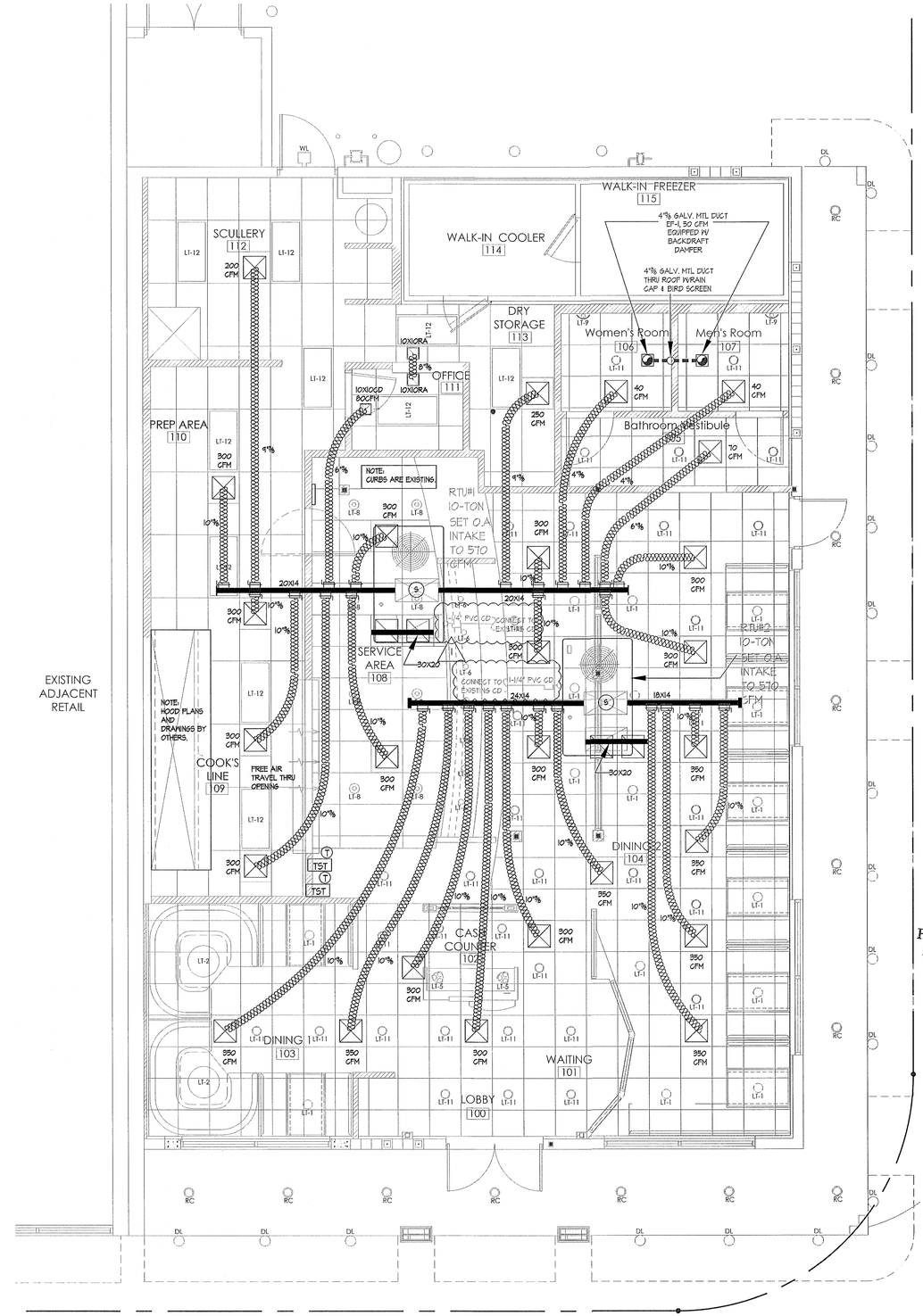
S	SMOKE DETECTOR
T	PROGRAMMABLE THERMOSTAT
TST	TESTER
	MANUAL VOLUME DAMPER (MVD)
	FIRE DAMPER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
LxW	SUPPLY FIBERGLASS DUCTBOARD R-6
	FLEX DUCT R-6
	EXHAUST FAN
OA	OUTSIDE AIR
RTU	ROOF TOP UNIT
CFM	CUBIC FEET PER MINUTE
	DUCT SIZE REDUCED

NOTES:
1. PER FBC 2010 ENERGY CONSERVATION SECTION 503.2.5.4 (SHUTOFF DAMPER CONTROLS)

PROVIDE MOTORIZED DAMPERS FOR O/A INTAKE FOR RTU's. CONNECT MOTORIZED DAMPER TO TIME CLOCK TO CLOSE OUTSIDE AIR INTAKE AUTOMATICALLY WHEN THE SPACE SERVED IS NOT IN USE (OFF BUSINESS HOURS).

EXHAUST FAN SCHEDULE

TAG	BASIS OF DESIGN		FLOW RATE	STATIC PRESSUER	RPM	ELECTRICAL DATA		PANEL (LxW)	WEIGHT
	MANUFACTURER	MODEL OR SERIES	CFM			POWER (W)	VOLT	Inch	(lb)
EF-1	GREENHECK	SP-870	50	0.25	675	40	115	13.25x14.875	9



City of Miami Beach Fire Prevention Division PLANS APPROVED

05/17/13

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

BUCHANAN P.E. CONSULTING INC.
ELECTRICAL * MECHANICAL * PLUMBING
ENGINEERING
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Phr 954-590-3300 Fax: 954-590-2232
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RAJA BUCHANAN FL P.E # 68916
CERTIFICATE OF AUTHORIZATION # 8842

SEAL
RAJA BUCHANAN
P.E. # 68916
MAR 20 2013
DATE:

PROFESSIONAL SEAL

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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
1. 3-13-13 CITY COMMENTS

Mechanical Plan

SHEET
M-1

PROJECT: 12008
DATE: 01-18-13

H.V.A.C. GENERAL NOTES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH FBC-2010, 2006 NFPA-101, 2006 NFPA-1, 2008 NFPA-70.

1.ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY THE OWNER AND/OR ARCHITECT MUST BE CONDITION OF THE CONTRACT. SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, FOR REVIEW PRIOR TO PURCHASING.

2. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES IN ORDER TO AVOID CONFLICTS. NO CHARGES WILL BE ACCEPTED UNLESS A PRIOR WRITTEN APPROVAL HAS BEEN ISSUED BY THE OWNER/ARCHITECT.

3. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE WITH EXISTING CONDITIONS. PRIOR TO INSTALLING EQUIPMENT AND/OR FABRICATING DUCTWORK, A.C. CONTRACTOR SHALL CHECK THAT THERE IS SUFFICIENT CLEARANCES FOR EQUIPMENT, DUCTWORK, ETC. AND ALSO TO AVOID ANY INTERFERENCE WITH THE PROCESS OF CONSTRUCTION.

4. DRAWINGS ARE DIAGRAMMATIC ILLUSTRATIONS. DO NOT SCALE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT. PIPING, DUCTWORK, ETC. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING SYSTEM.

5. CONTRACTOR WILL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS.

6. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST ASHRAE GUIDE. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL WHERE APPLICABLE.

7. AIR FILTERS SHALL BE INSTALLED ON ALL RETURN AIR EQUIPMENT INLETS. PROVIDE AN EXTRA FILTER, INSTALL AT END OF

8. ALL REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OO THE WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, AND ORDINANCES.

9. PROVIDE MAIN CONDENSATE DRAIN AND AUXILIARY DRAIN PAN (AUXILIARY DRAIN PAN SHALL BE EQUIPPED WITH A WATER-LEVEL DETECTION DEVICE THAT WILL SHUT OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE PAN AS PER FMC 2007 SECTION 307.2.3) FOR ALL AIR CONDITIONING UNITS AND DRAIN TO EXTERIOR PERMEABLE SOIL OR AS SHOWN ON THE PLANS.

10. AIR CONDITIONING CONDENSATE PIPING AND FITTINGS SHALL BE PVC OR DWV (ASTM-D2662). COPPER IN PLENUM AREAS. ALL INTERIOR CONDENSATE PIPING IN UNCONDITIONED SPACES SHALL BE WRAPPED WITH A MINIMUM 1/2" SELF SEALING INSULATING FOAM JACKET. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROLS FOR THE OPERATION OF THE HVAC SYSTEM.

11. MAINTAIN 4" MINIMUM CLEARANCE AROUND ALL AIR HANDLING UNITS.

12. THERMOSTAT MUST BE PROGRAMMABLE TO BE ABLE TO SET THE TEMPERATURE BACK (OR OFF) WHEN SPACE IS UNOCCUPIED OR AT OTHER TIMES AS NEEDED BY USER.

13. ALL MATERIAL EXPOSED WITHIN PLENUM MUST BE NON COMBUSTIBLE OR RATED 25/50 FLAME SPREAD.

14. ALL AIR CONDITIONING AND VENTILATION DUCTS MUST CONFORM WITH SMACNA STANDARDS AND ALL LOCAL CODES. DUCT DROPS TO CEILINGS MAY BE INSULATED FLEXIBLE DUCT AS INDICATED ON THE HVAC PLAN. "FLEX" DUCTS SHALL BE FULLY EXTENDED AND OPEN. FIBERGLASS DUCT INSULATION VALUE SHALL BE MIN. R-6 IN ATTICS AND MIN. R-4.2 IN AIR CONDITIONED SPACE.

15. ALL VENTILATION DUCTWORK SHALL BE GALVANIZED SHEET METAL

16. DUCT SIZES SHOWN OR INDICATED ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

17. HANGERS SHALL BE PROVIDED IN ACCORDANCE WITH S.M.A.C.N.A. RECOMMENDATIONS.

18. AIR DISTRIBUTION ACCESSORIES SHALL BE AIR GUIDE, ANEMOSTAT, TITUS, OR APPROVED EQUAL. ALL SUPPLY A.C. DUCT ELBOWS MUST BE FURNISHED WITH APPROVED TURNING VANES. BRANCH TAKEOFFS MUST BE PROPORTIONAL SPLITS.

19. THE OWNER SHALL APPROVE THE FINISH COLOR OF ALL EXPOSED AIR DISTRIBUTION DEVICES.

20. PROVIDE FIRE DAMPERS IN ALL DUCTS PASSING THROUGH FIRE DIVISION ASSEMBLIES. FIRE DAMPERS MUST HAVE FIRE RATING EQUAL TO OR GREATER THAN THE PENETRATED ASSEMBLY RATING. FIRE DAMPER INSTALLATIONS SHALL COMPLY WITH ALL LOCAL CODES. PROVIDE ACCESS PANEL TO ALL FIRE DAMPERS.

21. ELECTRIC STRIP HEATERS SHALL BE BLAST COIL TYPE WITH NICKEL CHROMIUM WIRE AND INSULATING BUSHINGS FACTORY MOUNTED AND WIRED INCLUDING ALL HEAT LIMITERS, HIGH LIMIT SWITCHES, AND CONTRACTORS IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE".

22. EXHAUST FANS SHALL HAVE THE CAPACITIES AS STATED ON THE DRAWINGS AND BE PROVIDED WITH BACK DRAFT DAMPER, BIRD SCREEN.

23. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD NOT LESS THAN 1 YEAR FROM THE DATE OF ACCEPTANCE, UNLESS OTHERWISE NOTED. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIRS OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED OR IS NOT OPERATING PROPERLY.

24. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS FOR SUBSTITUTIONS BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.

25. AIR DISTRIBUTION SYSTEM TESTING, ADJUSTING AND BALANCING. A WRITTEN BALANCE REPORT SHALL BE PROVIDED TO THE OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER FOR HVAC SYSTEMS SERVING ZONES WITH A TOTAL CONDITIONED AREA EXCEEDING 5000 SQUARE FEET. AIR DISTRIBUTION SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED BY AN ENGINEER LICENSED IN THIS STATE OR A COMPANY OR INDIVIDUAL HOLDING A CURRENT CERTIFICATION FROM A RECOGNIZED TESTING AND BALANCING AGENCY ORGANIZATION IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS.
EXCEPTIONS:
1. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 15 TONS OR LESS PER SYSTEM MAY BE TESTED AND BALANCED BY A MECHANICAL CONTRACTOR LICENSED TO DESIGN AND INSTALL SUCH SYSTEM(S).
2. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 65,000 BTU/H OR LESS PER SYSTEM ARE EXEMPT FROM THE REQUIREMENTS OF THIS SECTION.
AIR SYSTEM BALANCING SHALL COMPLY WITH FBC 2010 ENERGY CONSERVATION SECTION 503.2.9.1

26. AS PER FBC 2010 ENERGY CONSERVATION SECTION 503.2.9.3, AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL CONTRACTOR. THE MANUAL SHALL INCLUDE, AT LEAST, THE FOLLOWING:
1. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS.
2. EQUIPMENT OPERATION AND MAINTENANCE MANUALS.
3. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS DESIRED OR FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
4. A COMPLETE WRITTEN NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

27. ALL PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH FBC 2010 ENERGY CONSERVATION TABLE 503.2.8.

28. IF THERE ARE ANY CHANGES IN ENGINEER'S DRAWINGS, IN DESIGN OR IN EQUIPMENT, WITHOUT ENGINEER'S CONSENT, THE A.C. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITIES FOR THE PROJECT.

29. SMOKE DETECTORS ARE REQUIRED ON ALL PRIMARY AIR CONDITIONING SYSTEMS WHERE TOTAL AIR VOLUME EXCEEDS 2,000 C.F.M. (FBC-MECHANICAL 2010, SECTION 606.2.1) A DUCT ACCESS DOOR IS REQUIRED TO ACCESS THE DETECTOR. THE SYSTEM SHALL BE WIRED SO AS WHEN THE DUCT SMOKE DETECTOR DETECTS SMOKE, IT SHALL STOP THE AC SUPPLY FAN AND CAUSE A VISUAL AND AUDIBLE SIGNAL IN A NORMALLY OCCUPIED LOCATION. ALSO, THE DETECTOR SHALL INDICATE A TROUBLE CONDITION EITHER VISUALLY OR AUDIBLY IN THE NORMALLY OCCUPIED LOCATION, AND BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. NFPA 90A, 4-4.4.3
(THE TESTER SHOULD BE EQUIPPED WITH AN LED LIGHT TO INDICATE TROUBLE).

30. AS PER FBC 2010 ENERGY CONSERVATION SECTION 503.2.5.4 (SHUTOFF DAMPER CONTROLS)
PROVIDE MOTORIZED DAMPERS FOR O/A INTAKE FOR AHU. CONNECT MOTORIZED DAMPER TO TIME CLOCK TO CLOSE OUTSIDE AIR INTAKE AUTOMATICALLY WHEN THE SPACE SERVED IS NOT IN USE (OFF BUSINESS HOURS).

31. GRAVITY HOODS, VENTS, AND VENTILATORS. ALL OUTDOOR AIR SUPPLY AND EXHAUST HOODS, VENTS, AND VENTILATORS SHALL BE EQUIPPED WITH DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SPACES SERVED ARE NOT IN USE.
EXCEPTION: VENTILATION SYSTEMS SERVING UNCONDITIONED SPACES.

32. MINIMUM DUCT INSULATION R-VALUES, HEATING AND COOLING SUPPLY AND RETURN DUCTS SHALL BE PER FBC 2010 ENERGY CONSERVATION TABLE 503.2.7.1

33. AS PER FBC-301.4 ALL APPLIANCES REGULATED BY THIS CODE SHALL BE LISTED AND LABELED UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH SECTIONS 301.4.1 THROUGH 301.4.4.

34. AS PER FMC-304.10 GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 10 FT. OF ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30" ABOVE THE FLOOR, ROOF OR GRADE BELOW.

35. AS PER 306.5.1 SLOPED ROOFS. WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE INSTALLED ON A ROOF HAVING A SLOPE OF THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL OR GREATER AND HAVING AN EDGE MORE THAN 30" ABOVE GRADE AT SUCH EDGE A LEVEL PLATFORM SHALL BE PROVIDED ON EACH SIDE OF THE APPLIANCE TO WHICH ACCESS IS REQUIRED FOR SERVICE, REPAIR OR MAINTENANCE. THE PLATFORM SHALL BE NOT LESS THAN 30" IN ANY DIMENSION AND SHALL BE PROVIDED WITH GUARDS. THE GUARDS SHALL EXTEND NOT LESS THAN 42"ABOVE THE PATFORM, SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21" DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE FBC.

36. ANY INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10FT. FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE.

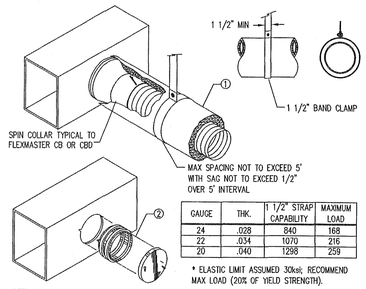
37. ALL COOKING APPLIANCES THAT ARE DESIGNED FOR PERMANENT INSTALLATION SHALL BE LISTED , LABELED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION.

38. ROOF MOUNTED MECHANICAL UNITS SHALL BE MOUNTED ON CURBS RAISED A MINIMUM OF 8 INCHES (203 MM) ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BENEATH THE UNIT, ON RAISED EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH TABLE 1509.7.
TABLE 1509.7 CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS

WIDTH OF MECHANICAL UNIT (INCHES)				
SURFACES (INCHES)				
< 24	/ 24 < 36	/ 36 < 48	/ 48 < 60	/ > 60
14"	18"	24"	30"	48"

39. ROOF TOP A/C UNIT CURB SHALL BE MINIMUM 16 GAUGE (HURRICANE RATED CURB).

40. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE PROJECT ENGINEER AND ARCHITECT OF ANY DISCREPANCY BETWEEN THESE PLANS AND THE EXISTING CONDITIONS. THE CONTRACTOR SHALL INCLUDE IN HIS BID TO CORRECT SUCH CONDITION AS DIRECTED. THE ENGINEER AND ARCHITECT ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED.



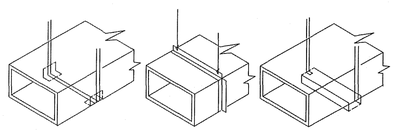
GAUGE	THK.	1 1/2" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

* ELASTIC LIMIT ASSUMED 30ksi; RECOMMEND MAX LOAD (20% OF YIELD STRENGTH).

NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING TYPICAL TO "FABRIFLEX".
2. "INSPECTOR SERIES" SPIN DOORS.

DUCT SUPPORT DETAIL (FOR FLEX DUCT)
NTSC

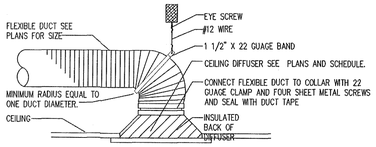
V:1 061026



NOTES:
1. HANG DUCTS ACCORDING TO SMACNA STANDARDS
2. ALL STRAP SHALL BE A MINIMUM OF 1 1/2", 26 GA GALVNIZED STEEL. WITH A 6 FT MAXIMUM SPACING.

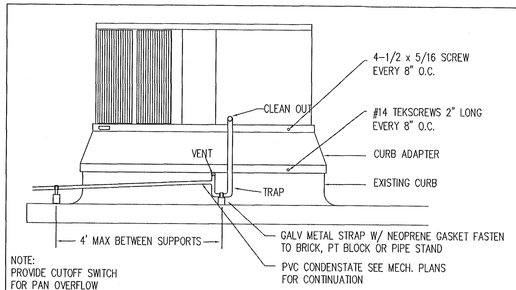
METHODS OF HANGING DUCTS
NTSC

V:1 061026



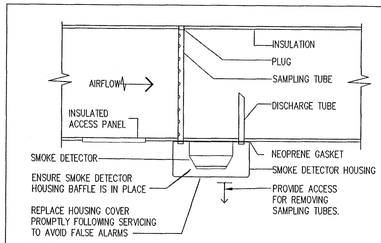
TYPICAL DIFFUSER DETAIL
NTSC

V:1 061026



NOTE:
PROVIDE CUTOFF SWITCH FOR PAN OVERFLOW

RTU WITH CURB ADAPTER TO EXISTING CURB ATTACHMENT DETAL
NTSC



NOTES:
1. PER FMC 606.2.1 DUCT SMOKE DETETOR TO BE INSTALLED IN SUPPLY DUCT.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION.
3. COORDINATE VOLTAGE AND TYPE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS.
4. SAMPLING TUBE MUST BE INSTALLED ACROSS GREATEST DUCT DIMENSION.
5. OPERATION: WHEN THE DUCT SMOKE DETECTOR DETECTS SMOKE, IT SHALL STOP THE RTU/AHU SUPPLY FAN AND CAUSE A VISUAL AND AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION. IN ADDITION TO THE ALARM SIGNAL, THE DETECTOR SHALL INDICATE A TROUBLE CONDITION EITHER VISUALLY OR AUDIBLY AT A CONSTANTLY ATTENDED LOCATION, AND BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. 9NFPA 90A, 4-4.4.3 (THE TESTER PROVIDED IS EQUIPPED WITH LED LIGHTS TO INDICATE TROUBLE)

DUCT SMOKE DETECTOR DETAIL
NTSC

V:2 061211

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

05/17/13

MIAMI BEACH FIRE DEPARTMENT

BUCHANAN P.E. CONSULTING INC.
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RAJA BUCHANAN FL P.E # 48916
CERTIFICATE OF AUTHORIZATION # 8842

SEAL
RAJA BUCHANAN
STATE OF FLORIDA
No. 48916
FEB 0 1 201
DATE:

PROFESSIONAL SEAL

RON FAIRCHILD
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Renovation for:
Dennys' at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

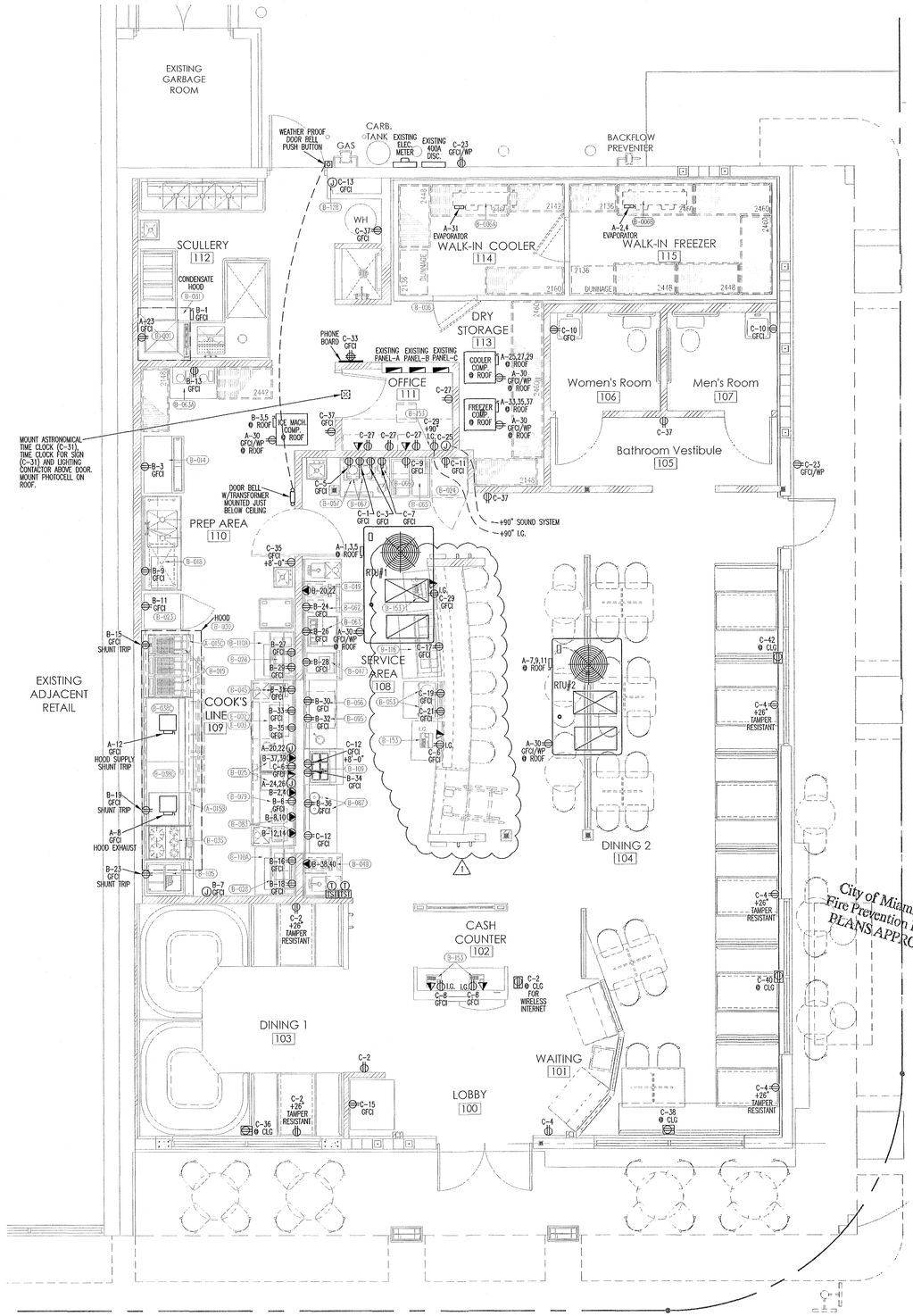
Mechanical Details & Notes

SHEET
M-2

PROJECT: 12008
DATE: 01-18-13

ELECTRICAL SYMBOL LEGEND	
	RECEPTACLE DUPLEX 120V
	SWITCHED RECEPTACLE
	RECEPTACLE @ CEILING
	FLOOR RECEPTACLE
	QUAD RECEPTACLE
	220V RECEPTACLE
	DISCONNECT SWITCH
	ELECTRICAL PANEL
	COMPUTER/PHONE JACK
WP	WEATHER PROOF
GFCI	GROUND FAULT CURRENT INTERRUPTER
I.G.	ISOLATED GROUND
J	JUNCTION BOX
T	PROGRAMMABLE THERMOSTAT
TST	TESTER

NOTE:
ALL RECEPTACLES TO BE @ 15" AFF TO BOTTOM OF RECEPTACLE UNLESS NOTED OTHERWISE OR ABOVE COUNTER.



City of Miami Beach Fire Prevention Division PLANS APPROVED

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

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SEAL
RAJA BUCHANAN
STATE OF FLORIDA
MAY 14 2013
DATE

PROFESSIONAL SEAL

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Renovation for:
Denny's at Collins
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
1 PERMIT REVISION 05-13-13

Power Plan

Electrical Plans Examiner
CHECKED: MAY 17 2013

SHEET
E-1

PROJECT: 12008
DATE: 01-18-13

NOTE:
ALL LUMINAIRES SHALL BEAR THE LISTING # FROM SOME NRTL.

NOTE:
COMPLY WITH FBC 2010 CHAPTER 27 AND NEC 2008

LIGHT FIXTURE SCHEDULE:

Mark	Light Fixture Specification
DL	WALL MOUNTED DOWN LITE AT FACE OF EXISTING FACADE: MANUFACTURER: ATLANTIC LIGHTING PRODUCT: WV642-CC VERTICAL COMPACT WATTAGE: 45 WATTS COLOR/FINISH: DENNY'S ROCKWOOD RED POWDERCOAT FINISH CONTACT: RED MOUNTAIN LIGHTING, BRUCE SWEENY (602) 549-5117 LOCATION: WALL MOUNT ABOVE AWNINGS
RC	EXTERIOR RECESSED DOWNLIGHT TO REPLACE EXISTING LIGHTS UNDER EXTERIOR BUILDING SOFFIT: MANUFACTURER: CREE PRODUCT: RRS 6" LED DOWNLIGHT WATTAGE: 10 1/2 WATTS COLOR/FINISH: RED MOUNTAIN LIGHTING, BRUCE SWEENY CONTACT: (602) 549-5117 LOCATION: UNDER EXISTING BUILDING SOFFIT / TO REPLACE EXISTING LIGHTS
WL	WALL MOUNTED LED LIGHT: MANUFACTURER: RAB LIGHTING PRODUCT: WPLED20 WATTAGE: 22 WATTS COLOR/FINISH: RED MOUNTAIN LIGHTING, BRUCE SWEENY CONTACT: (602) 549-5117 LOCATION: WALL MOUNTED OVER PERSONNEL DOOR
LT-1	CEILING MOUNTED PENDANT LIGHT: MANUFACTURER: ARCHITECTURAL CUSTOM PRODUCT: #A3011C-CAAB 7" X 10" W/ CASED AMBER, BROWN RUBY GLASS PENDANT WATTAGE: 20 WATT FLUORESCENT BULB COLOR/FINISH: ADJ. CLEAR CORD, SATIN NICKEL CONTACT: ARCHITECTURAL CUSTOM (951) 275-8850 LOCATION: PERIMETER BOOTHS – SEE CEILING PLAN
LT-2	CEILING MOUNTED DRUM PENDANT: MANUFACTURER: ARCHITECTURAL CUSTOM PRODUCT: DRUM PENDANT 24" DIAMETER X 14" H. WATTAGE: (3) 23 WATT FLUOR. BULBS = 69 WATTS COLOR/FINISH: AMBER SHADE, SATIN NICKEL SEMI-GLOSS CONTACT: ARCHITECTURAL CUSTOM (951) 275-8850 LOCATION: LARGE BOOTHS – SEE CEILING PLAN
LT-5	CEILING MOUNTED TRIPLE PENDANT LIGHTS: MANUFACTURER: ARCHITECTURAL CUSTOM PRODUCT: TRIPLE LT-4 #99040-ACAB WATTAGE: (3) 14 WATT BULBS = 42 WATTS COLOR/FINISH: CASED AMBER, BROWN, RUBY GLASS ADJ. CORDS, SATIN NICKEL CONTACT: ARCHITECTURAL CUSTOM (951) 275-8850 LOCATION: OVER CASH AREA – SEE CEILING PLAN
LT-6	CEILING MOUNTED PENDANT LIGHT: MANUFACTURER: ARCHITECTURAL CUSTOM PRODUCT: #A99100C – ACAB WATTAGE: 14 WATTS COLOR/FINISH: CASED AMBER, BROWN, RUBY GLASS CYLINDER ADJ. CLEAR CORD, SATIN NICKEL CONTACT: ARCHITECTURAL CUSTOM (951) 275-8850 LOCATION: OVER EATING COUNTER – SEE CEILING PLAN
LT-8	CEILING MOUNTED PENDANT LIGHT: MANUFACTURER: JUNO LIGHTING PRODUCT: RECESSED DOWNLITE IC22 COLOR/FINISH: G.C. TO VERIFY MODEL W/ 9324-SC TRIM SATIN CHROME, FROSTED GLASS, 7-5/8" DIAM. WATTAGE: 50W PAR 30/65WBR-30 CONTACT: JUNO LIGHTING GROUP, RICHARD KOSTECKA (864) 924-9224 LOCATION: SERVICE AREA – SEE CEILING PLAN
LT-9	WALL SCONCE: MANUFACTURER: TECH LIGHTING PRODUCT: MINI LARKSPUR WALL SCONCE WATTAGE: 13 WATTS COLOR: BEACH AMBER GLASS FINISH: SATIN NICKEL SIZE: 5.5" X 10.2" X 3"D. LAMPING: 13W 2GX7 BASE TWIN-TUBE CFL CONTACT: LIGHTING & CONTROLS (847) 410-4400 LOCATION: BATHROOMS
LT-11	RECESSED L.E.D. LIGHT FIXTURE: MANUFACTURER: CREE PRODUCT: RC6 SIX INCH RECESSED HOUSING W/ CR6 WATTAGE: 10 1/2 WATTS COLOR/FINISH: RECESSED L.E.D. DOWNLIGHT. CONTACT: RED MOUNTAIN LIGHTING, BRUCE SWEENY (602) 549-5117 LOCATION: DINING AREA AND BATHROOMS.
LT-12	2' X 4' FLUORESCENT CEILING GRID LIGHT FIXTURE: MANUFACTURER: CREE PRODUCT: CR24 2'X4' RECESSED TROFFER WATTAGE: 44 WATTS COLOR/FINISH: WHITE CONTACT: RED MOUNTAIN LIGHTING, BRUCE SWEENY (602) 549-5117 LOCATION: COOK LINE / PREP AREA / DRY STORAGE

FBC-2010 - ENERGY CONSERVATION
INTERIOR LIGHTING POWER ALLOWANCE CALCULATIONS -

SPACE TYPE	ALLOWED (W/SQ FT)			AREA (SQ FT)			ALLOWED (W)		USED (W)	
DINING (LEISURE)	2.1	W/SQ FT	x	1329	SQ FT	=	2791	WATT	925	WATT
FOOD PREP	1.2	W/SQ FT	x	1126	SQ FT	=	1351	WATT	938	WATT

ELECTRICAL SYMBOL LEGEND

Symbol	Description
(J)	JUNCTION BOX
	EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACK UP. HUBBELL LIGHTING (LZ25D10W (WALL MT).
	EXIT LIGHT WITH 90 MINUTE BATTERY BACK UP. NOT MORE THAN 5W PER FACE. HUBBELL LIGHTING (LX SERIES)
	EXHAUST FAN
$	SWITCH
$_3	3 WAY SWITCH
$_4	4 WAY SWITCH
$_B	TIME CLOCK BYPASS SWITCH (MAX 4 HOURS OVERRIDE)
$_M	OCCUPANT SENSOR. TURNS LIGHTS OFF WITHIN 30 MINUTES AFTER OCCUPANT LEAVES SPACE. WHEN MULTIPLE OCCUPANT SENSORS ARE USED ON ONE LIGHTING CIRCUIT, ANY OCCUPANT SENSOR ACTIVATION WILL TURN ON LIGHTS FOR THAT LIGHTING CIRCUIT FOR 30 MINUTES MAXIMUM.
(OS)	ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR. TURNS LIGHTS OFF WITHIN 30 MINUTES AFTER OCCUPANT LEAVES SPACE. WHEN MULTIPLE MOTION SENSORS ARE USED ON ONE LIGHTING CIRCUIT, ANY OCCUPANCY SENSOR ACTIVATION WILL TURN ON LIGHTS FOR THAT LIGHTING CIRCUIT FOR 30 MINUTES MAXIMUM. NOTE: OCCUPANCY SENSOR SHALL BE SELECTED TO PROVIDE FULL COVERAGE FOR THE AREA IT SERVES.

NOTE:
ALL SWITCHES TO BE @ 48" AFF TO TOP OF SWITCH UNLESS NOTED OTHERWISE.

NOTE:
FOR FLUORESCENT LUMINAIRES, PROVIDE DISCONNECTS AS PER NEC 410.130(G).

FLORIDA BUILDING CODE 2010 ENERGY CONSERVATION:
SECTION 505.2 LIGHTING CONTROLS

PROVIDE A CONTACTOR WITH AN ASTRONOMICAL TIME CLOCK TO TURN OFF ALL OTHER LIGHTS DURING OFF BUSINESS HOURS.

PROVIDE TIME CLOCK BYPASS SWITCHES AT LOCATIONS SHOWN ON THE PLAN. THE BYPASS SWITCHES MUST BE CAPABLE OF OVERRIDING TIME OF DAY SCHEDULED SHUT-OFF CONTROL FOR NO MORE THAN FOUR HOURS AND BE EQUIPPED WITH LED.

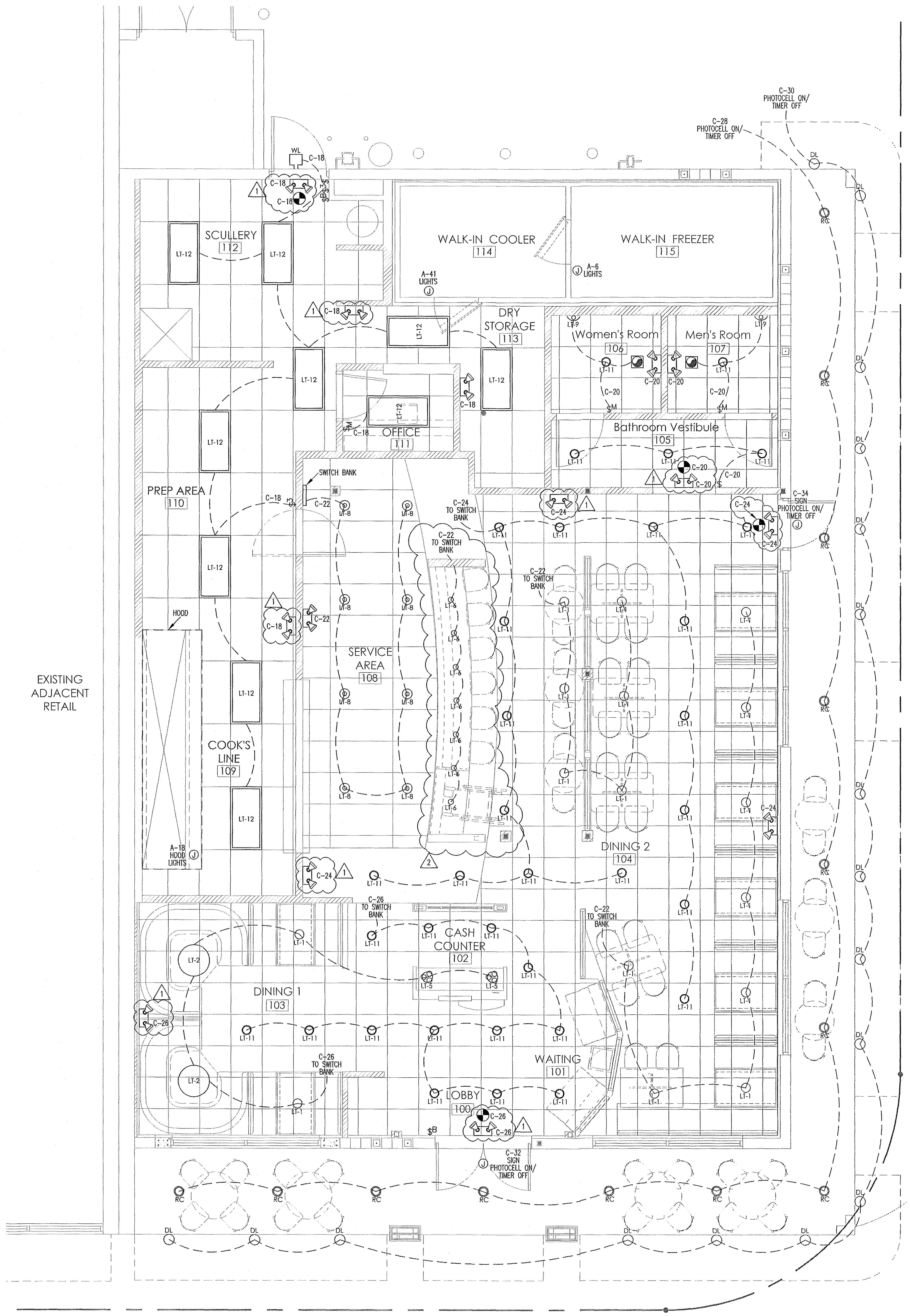
THE AUTOMATIC TIME SWITCH CONTROL DEVICE INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION.

ALL EMERGENCY AND EXIT LIGHTS TO BE CONNECTED AHEAD OF ANY SWITCH OR TIME CLOCK.

(LIGHTING INTENDED FOR 24HR OPERATION IS EXEMPT FROM THE REQUIREMENTS OF THIS CODE.)

CIRCUITS ON LIGHTING CONTACTOR:

C-18 (EXCEPT OFFICE), C-20 (EXCEPT RESTROOMS), C-22, C-24 & C-26.



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

PROFESSIONAL SEAL

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AR0016263

Ron Fairchild ARCHITECT

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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
1 CITY COMMENTS 03-12-13
2 PERMIT REVISION 05-13-13

Lighting Plan

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CERTIFICATE OF AUTHORIZATION # 8842

SEAL
RAJA BUCHANAN
FL P.E # 48916
DATE: MAY 14 2013

Electrical Plans Examiner
CHECKED MAY 17 2013

SHEET
E-2

PROJECT: 12008
DATE: 01-18-13

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C. 2008) AND GOVERNING MUNICIPAL, STATE AND LOCAL CODES. ALL MATERIAL SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE OWNER.
3. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
4. CONTRACTOR SHALL MAKE ALL NECESSARY CUTTING AND DO ALL THE REPATCHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
5. AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
6. WHERE ELECTRICAL CONDUCTORS ARE INSTALLED IN CONDUIT, THE CONDUIT SHALL COMPLY WITH THE N.E.C. REQUIREMENTS.
7. ALL CONDUCTORS SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN #12 AWG AND SHALL BE RATED FOR 600VOLTS THWN OR THHN INSULATION. INSTALL A GROUNDING CONDUCTOR WITH ALL CIRCUITS, UNLESS NOTED OTHERWISE, SIZED PER N.E.C. 250-122.
8. VERIFY BREAKER AND CORRESPONDING WIRE SIZES FOR ALL ELECTRICAL EQUIPMENT. DO NOT ORDER MATERIAL BEFORE VERIFYING BREAKER & WIRE SIZE. REPORT ANY DISCREPANCY IMMEDIATELY TO THE ENGINEER OF RECORD.
9. SAFETY SWITCHES SHALL BE SQUARE 'D', GENERAL ELECTRIC, OR WESTINGHOUSE, FUSED OR NON-FUSED AND SIZED AS INDICATED. NEMA 3R WHEN EXPOSED TO WEATHER
10. PANELS SHALL BE SQUARE 'D', GENERAL ELECTRIC OR EQUAL, TYPE AND NUMBER OF BREAKERS AS INDICATED ON PANEL SCHEDULE. STENCIL PANEL DESIGNATION ON INSIDE OF PANEL. ALL TWO-POLE BREAKERS SHALL BE COMMON TRIP. PROVIDE TYPE WRITTEN SCHEDULE IN EACH LOAD CENTERS. CONNECTION TO MAIN BUS SHALL BE WITH BURNDY ANNULAR COMPRESSION LUGS. PANELS AIC RATING SHALL BE AS INDICATED ON PLANS.
11. PROVIDE NAMEPLATES FOR ALL PANEL BOARDS, DISCONNECTS, TRANSFORMER, TERMINAL CABINETS AND ALL ELECTRICAL EQUIPMENT IDENTIFIED BY NAME ON DRAWINGS.
12. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
13. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING AND BEFORE INSTALLATION.
14. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO COMPLY WITH LOCAL CODE FOR WIND RESISTANCE.
15. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 15" A.F.F TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED, ALL LIGHT SWITCHES SHALL BE @ 48" AFF. TO TOP OF SWITCH.
16. TIME CLOCK FOR LIGHTING CONTROL TO BE AN ASTRONOMICAL TIME CLOCK.
17. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY AND OBTAIN, IN WRITING, THE AVAILABLE FAULT CURRENT OF THE UTILITY TRANSFORMER. THE CONTRACTOR SHALL ENSURE THAT ALL ELECTRICAL EQUIPMENT HAS AN AMP INTERRUPTING CAPACITY (AIC) GREATER THAN THE AVAILABLE FAULT CURRENT AT ANY POINT IN THE ELECTRICAL DISTRIBUTION SYSTEM.
18. WIRING METHOD:
ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE USED UNDERGROUND OR BELOW SLABS ON GRADE.
19. SEAL ALL NEW CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN EXISTING FIRE RATING CONDITIONS. FURNISH AND INSTALL FIRE RATED ENCLOSURES FOR ALL EQUIPMENTS PENETRATING FIRE RATED ENVELOPES, SPACES, ECT.
20. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE WIRING FOR HVAC SYSTEM: A/C EQUIPMENT(S), SMOKE DETECTORS, THERMOSTATS, TEST STATIONS, MOTORIZED VOLUME DAMPERS, ETC. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING. ELECTRICAL CONTRACTOR TO THOROUGHLY REVIEW MECHANICAL PLANS AND PROVIDE POWER TO ANY MECHANICAL EQUIPMENT OR DEVICE THAT IS NOT SHOWN ON ELECTRICAL PLANS BUT IS SHOWN ON MECHANICAL PLANS.
21. INSTALL "GFCI" GROUND FAULT INTERRUPTER RECEPTACLES WITH WEATHERPROOF COVER WITHIN 25 FT OF HVAC EQUIPMENT, MOUNT RECEPTACLE ON UNISTRUT (UNLESS HVAC EQUIPMENT IS SPECIFIED WITH FACTORY INSTALLED CONVENIENT RECEPTACLE) .
22. WHEN NEW ELECTRIC SERVICE IS BEING INSTALLED, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH FPL/FPL ENGINEERS ON THE SIZE OF THE FPL TRANSFORMER THAT IS REQUIRED TO PROVIDE THE NEW ELECTRIC SERVICE SHOWN ON ELECTRIC PLANS, GC HAS TO INFORM THE OWNER ABOUT ANY EXTRA FPL CHARGES THAT MIGHT OCCUR IN ORDER TO PULL NEW SERVICE. THIS HAS TO BE DONE AS EARLY AS POSSIBLE DURING THE BIDDING PROCESS.
23. ELECTRICAL SERVICE EQUIPMENT MUST BE 3' ABOVE MSL, AND 8' ABOVE N.V.G.D. VERIFY AT SITE. ALL ELECTRICAL EQUIPMENTS SHALL BE INSTALLED ABOVE FLOOD LEVEL.
24. CONTRACTOR MUST VISIT THE SITE PRIOR TO BID OR CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS. BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED AS VALID, DUE TO THE FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST. CONTRACTOR TO REPLACE ANY EXISTING DEVICE OR COMPONENT THAT IS CALLED AS EXISTING IF IT IS NOT FULLY OPERATIONAL.
25. WIRING METHODS IN ALL PATIENT CARE AREAS TO BE IN COMPLIANCE WITH REDUNDANT GROUNDING REQUIREMENTS OF NEC 2008 SECTION 517.13.
26. ALL DIMMING MECHANISMS HAVE TO BE COMPATIBLE WITH FIXTURE DIMMING REQUIREMENTS. CONTRACTOR MUST VERIFY ALL DIMMING MECHANISM AND FIXTURE DIMMING REQUIREMENTS BEFORE ANY ORDERING, INSTALLING, OR WIRING OF ANY DIMMING MECHANISMS AND FIXTURES.

PER FLORIDA BUILDING CODE 2010 ENERGY CONSERVATION:

505.7.3 VOLTAGE DROP.

505.7.3.1 FEEDERS AND CUSTOMER OWNED SERVICE CONDUCTORS.
FEEDER AND CUSTOMER OWNED SERVICE CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD.
505.7.3.2 BRANCH CIRCUITS. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

505.7.4 COMPLETION REQUIREMENTS.

505.7.4.1 DRAWINGS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

505.7.4.2 MANUALS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
NOTE: ENFORCEMENT AGENCIES SHOULD ONLY CHECK TO BE
SURE THAT THE CONSTRUCTION DOCUMENTS REQUIRE THIS INFORMATION TO BE TRANSMITTED TO THE OWNER AND SHOULD NOT EXPECT COPIES OF ANY OF THE MATERIALS.

505.3 TANDEM WIRING:

LUMINAIRES DESIGNED FOR USE WITH ONE OR THREE LINEAR FLUORESCENT LAMPS GREATER THAN 30 W EACH SHALL BE TANDEM WIRED WHEN TWO OR MORE LUMINAIRES ARE IN THE SAME SPACE AND ON THE SAME CONTROL DEVICE.
EXCEPTIONS:
1. RECESSED LUMINAIRES MORE THAN 10 FEET APART MEASURED CENTER TO CENTER.
2. SURFACE-MOUNTED OR PENDANT LUMINAIRES THAT ARE NOT CONTINUOUS.
3. LUMINAIRES USING THREE-LAMP HIGH-FREQUENCY ELECTRONIC OR THREE-LAMP ELECTROMAGNETIC BALLASTS.
4. RECESSED LUMINAIRES MORE THAN 10 FEET APART MEASURED CENTER TO CENTER.
5. SURFACE-MOUNTED OR PENDANT LUMINAIRES THAT ARE NOT CONTINUOUS.
6. LUMINAIRES USING THREE-LAMP HIGH-FREQUENCY ELECTRONIC OR THREE-LAMP ELECTROMAGNETIC BALLASTS.

BRANCH CIRCUIT VOLTAGE DROP MAXIMUM 3% PER 2010 FBC ENERGY CONSERVATION CODE SECTION 505.7.3.2

CIRCUIT LOAD IN AMPS	WIRE SIZE COPPER	MAXIMUM LENGTH IN FEET
5 AMPS OR LESS	#12 AWG	180
6 AMPS	#12 AWG	150
7 AMPS	#12 AWG	130
8 AMPS	#12 AWG	115
9 AMPS	#12 AWG	100
10 AMPS	#12 AWG	90
11 AMPS	#12 AWG	83
12 AMPS	#12 AWG	75
13 AMPS	#12 AWG	70
14 AMPS	#12 AWG	65
15 AMPS	#12 AWG	60
16 AMPS	#12 AWG	57
17 AMPS	#12 AWG	54
18 AMPS	#12 AWG	51
19 AMPS	#12 AWG	48
20 AMPS	#12 AWG	45

PANEL-A
DELTA B-PHASE HI LEG

SPECIFICATIONS: EXISTING
AMPACITY 200 AMPS
VOLTAGE: 120/240V, 3PH, 4WIRE DELTA
MAINS: 200 AMPS
LOCATION: OFFICE
MOUNTING: FLUSH

AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD SIZE	DESCRIPTION	CIRC No.	PH	PH	PH	CIRC No.	DESCRIPTION	GRD SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS
60	3	6360	1"	6	10	RTU#1	1	A			2	WALK-IN FREEZER EVAPORATOR	12	12	1/2"	1560	2	20
60	3	6360	1"	6	10		3		B		4		12	12	1/2"	1560	2	20
60	3	6360	1"	6	10		5			C	6	WALK-IN FREEZER LIGHTS	12	12	1/2"	300	1	20
60	3	6360	1"	6	10	RTU#2	7	A			8	HOOD EXHAUST	10	10	1/2"	2346	1	30
60	3	6360	1"	6	10		9		B		10							
60	3	6360	1"	6	10		11			C	12	HOOD SUPPLY	12	12	1/2"	1610	1	20
						SPACE	13	A			14	SHUNT TRIP						
						SPACE	15		B		16	SPACE						
						SPACE	17			C	18	HOOD LIGHTS	12	12	1/2"	300	1	20
						SPACE	19	A			20	HEAT LAMP	12	12	1/2"	1394	2	20
						SPACE	21		B		22		12	12	1/2"	1394	2	20
20	1	1500	1/2"	12	12	DISHWASHER	23			C	24	HEAT LAMP	12	12	1/2"	1394	2	20
20	3	900	1/2"	12	12	WALK-IN COOLER COMPRESSOR	25	A			26		12	12	1/2"	1394	2	20
20	3	900	1/2"	12	12		27		B		28	SPACE						
20	3	900	1/2"	12	12		29			C	30	RECEPT. @ ROOF	12	12	1/2"	900	1	20
20	1	414	1/2"	12	12	WALK-IN COOLER EVAPORATOR	31	A			32	SPACE						
20	3	1332	1/2"	12	12	WALK-IN FREEZER COMPRESSOR	33		B		34	SPACE						
20	3	1332	1/2"	12	12		35			C	36	SPACE						
20	3	1332	1/2"	12	12		37	A			38	SPACE						
							39		B		40	SPACE						
20	1	200	1/2"	12	12	WALK-IN COOLER LIGHTS	41			C	42	SPACE						

SUBTOT. 46970 VA TOTAL LOAD = 61,120 VA SUBTOT. 14150 VA

A-PHASE 15366 VA	TOTAL LOAD A-PHASE	=	22,059	I=	183.8	6693 VA
B-PHASE 14952 VA	TOTAL LOAD B-PHASE	=	17,906	I=	149.2	2953.5 VA
C-PHASE 16652 VA	TOTAL LOAD C-PHASE	=	21,156	I=	176.3	4503.5 VA

PANEL-A
DEMAND LOAD CALCULATIONS

	A-PH	B-PH	C-PH		A-PH	B-PH	C-PH	
TOTAL RECEP. LOAD	0	0	900 VA					
RECEP. 1st 10,000 VA @ 100%	0	0	900	@100%	0	0	900	VA
REST @ 50%	0	0	0	@50%	0	0	0	VA
LIGHTING LOAD @ 125%	0	0	0	@125%	0	0	0	VA
LARGEST MOTOR @125%	2346	0	0	@125%	2,933	0	0	VA
OTHER MOTORS @ 100%	0	0	1610	@100%	0	0	1,610	VA
AIR CONDITIONERS @ 100%	12,720	12,720	12,720	@100%	12,720	12,720	12,720	VA
KITCHEN EQUIPMENT @ 65%	6,993	5,186	5,926	@65%	4,545	3,371	3,852	VA
REST OF ALL OTHER LOADS @ 100%	0	0	0	@100%	0	0	0	VA
				TOTAL LOAD =	20,198	16,091	19,082	VA
CURRENT PER PHASE	= TOTAL LOAD (VA) / (120)							
CURRENT PER PHASE	=				168	134	159	AMPS

* NON SIMULTANEOUS LOAD
VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS

PANEL-B

SPECIFICATIONS: EXISTING
AMPACITY 225 AMPS
VOLTAGE: 120/240V, 1PH, 3 WIRE
MAINS: 225 AMPS
LOCATION: OFFICE
MOUNTING: FLUSH

AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD SIZE	DESCRIPTION	CIRC No.	CIRC No.	DESCRIPTION	GRD SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS
20	1	600	1/2"	12	12	CONDENSATE HOOD	1	2	STEAM TABLE	12	12	1/2"	1440	2	20
20	2	3480	1/2"	12	12	ICE MAKER W/REMOTE COMP.	3	4		12	12	1/2"		2	20
20	2		1/2"	12	12		5	6	STEAM TABLE TIMER	12	12	1/2"	240	1	20
20	1	240	1/2"	12	12	FIRE SUPPRESSION SYSTEM	7	8	TOASTER	12	12	1/2"	3240	2	20
20	1	1440	1/2"	12	12	CONVECTION OVEN	9	10		12	12	1/2"		2	20
20	1	864	1/2"	12	12	FREEZER	11	12	TOASTER	12	12	1/2"	3240	2	20
20	1	840	1/2"	12	12	SODA SYSTEM CARBONATOR	13	14		12	12	1/2"		2	20
20	1	1200	1/2"	12	12	2 DRAWER FREEZER BASE	15	16	SALAD STATION	12	12	1/2"	1032	1	20
						SHUNT TRIP	17	18	MICROWAVE OVEN	12	12	1/2"	2400	1	20
20	1	600	1/2"	12	12	4 DRAWER REFRIGERATED BASE	19	20	COFFEE BREWER	12	12	1/2"	4080	2	20
						SHUNT TRIP	21	22		12	12	1/2"		2	20
20	1	588	1/2"	12	12	EGG REFRIGERATOR	23	24	ICED TEA BREWER	12	12	1/2"	1800	1	20
						SHUNT TRIP	25	26	SODA DISPENSER UNIT	12	12	1/2"	600	1	20
20	1	1032	1/2"	12	12	SALAD STATION	27	28	JUICE DISPENSER	12	12	1/2"	780	1	20
20	1	2400	1/2"	12	12	MICROWAVE OVEN	29	30	ROLL WARMER	12	12	1/2"	936	1	20
20	1	1560	1/2"	12	12	WAFFLE MAKER	31	32	TIME STAMP	12	12	1/2"	240	1	20
20	1	1800	1/2"	12	12	HOLDING CABINET	33	34	BUTTER REFRIGERATOR	12	12	1/2"	588	1	20
20	1	936	1/2"	12	12	ROLL WARMER	35	36	SYRUP WARMERS	12	12	1/2"	408	1	20
20	2	1440	1/2"	12	12	STEAM TABLE	37	38	COFFEE BREWER	12	12	1/2"	4080	2	20
20	2		1/2"	12	12		39	40		12	12	1/2"		2	20
						SPACE	41	42	SPACE						

SUBTOT. 19020 VA TOTAL LOAD = 44,124 VA SUBTOT. 25104 VA

PANEL-B
DEMAND LOAD CALCULATIONS

TOTAL RECEP. LOAD	0 VA			
RECEP. 1st 10,000 VA @ 100%	0	@100%	0	VA
REST @ 50%	0	@50%	0	VA
LIGHTING LOAD @ 125%	0	@125%	0	VA
LARGEST MOTOR @125%	0	@125%	0	VA
OTHER MOTORS @ 100%	0	@100%	0	VA
AIR CONDITIONERS @ 100%	0	@100%	0	VA
KITCHEN EQUIPMENT @ 65%	44,124	@65%	28,681	VA
REST OF ALL OTHER LOADS @ 100%	0	@100%	0	VA
	TOTAL LOAD =		28,681	VA
CURRENT PER PHASE	= TOTAL LOAD (VA) / 240			
	= 120	AMPS		

* NON SIMULTANEOUS LOAD
VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS

TOTAL DEMAND LOAD
PANEL-A, B & C

	A-PH	B-PH	C-PH		A-PH	B-PH	C-PH	
TOTAL RECEP. LOAD	3120	0	4020 VA					
RECEP. 1st 10,000 VA @ 100%	3,120	0	4,020	@100%	3,120	0	4,020	VA
REST @ 50%	0	0	0	@50%	0	0	0	VA
LIGHTING LOAD @ 125%	2633	0	2633	@125%	3,292	0	3,292	VA
LARGEST MOTOR @125%	2346	0	0	@125%	2,933	0	0	VA
OTHER MOTORS @ 100%	0	0	1610	@100%	0	0	1,610	VA
AIR CONDITIONERS @ 100%	12,720	12,720	12,720	@100%	12,720	12,720	12,720	VA
KITCHEN EQUIPMENT @ 65%	35,199	5,186	34,832	@65%	22,879	3,371	22,640	VA
REST OF ALL OTHER LOADS @ 100%	0	0	0	@100%	0	0	0	VA
				TOTAL LOAD =	44,943	16,091	44,282	VA
CURRENT PER PHASE	= TOTAL LOAD (VA) / (120)							
CURRENT PER PHASE	=				375	134	369	AMPS

PANEL-C

SPECIFICATIONS: EXISTING
AMPACITY 225 AMPS
VOLTAGE: 120/240V, 1PH, 3WIRE
MAINS: 225 AMPS
LOCATION: OFFICE
MOUNTING: FLUSH

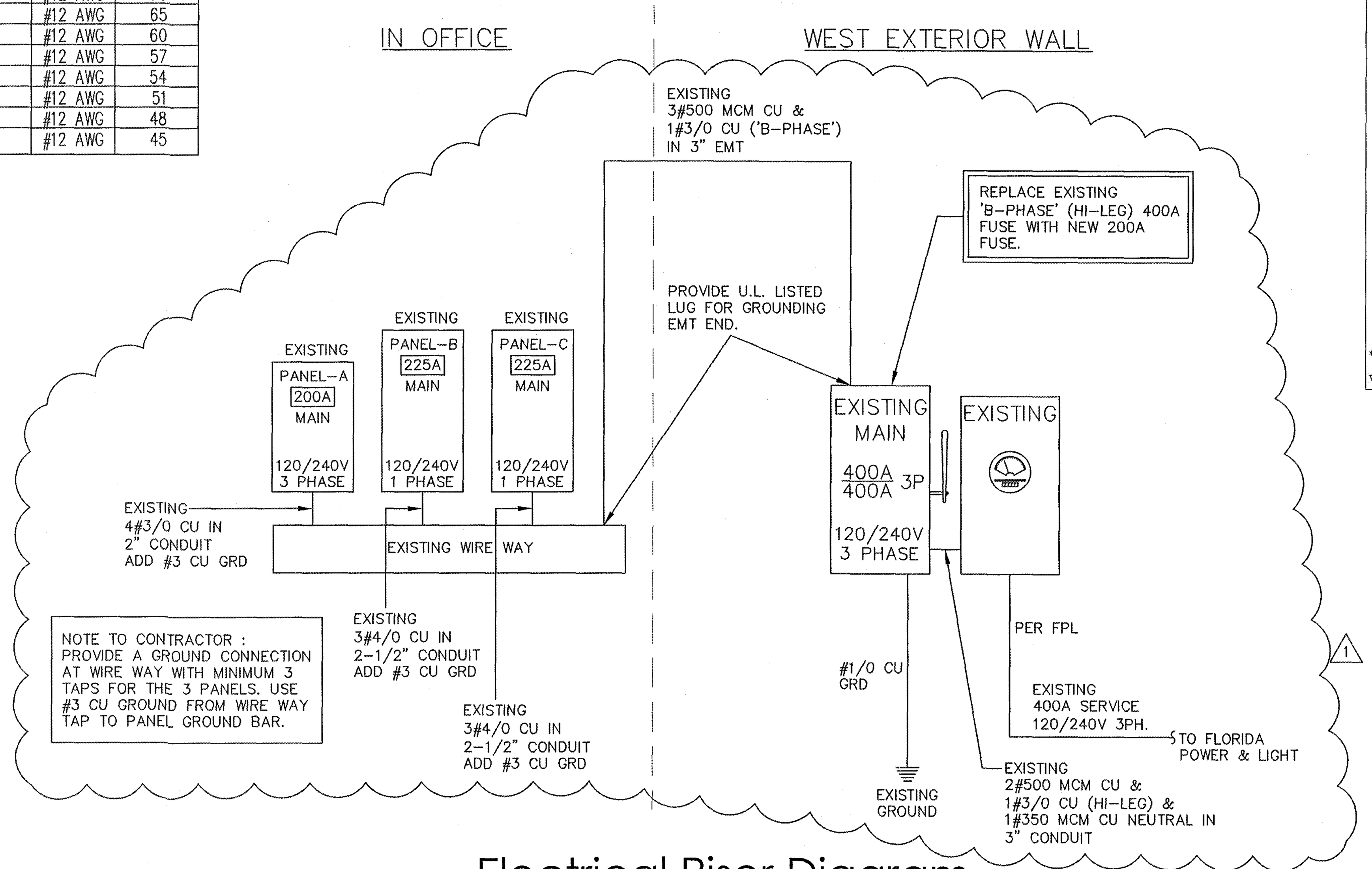
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD SIZE	DESCRIPTION	CIRC No.	CIRC No.	DESCRIPTION	GRD SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS
20	1	900	1/2"	12	12	BLENDER	1	2	RECEPT. DINING 1/WIRELESS INTERNET	12	12	1/2"	720	1	20
20	1	900	1/2"	12	12	BLENDER	3	4	RECEPT. DINING 2/WAITING	12	12	1/2"	720	1	20
20	1	1800	1/2"	12	12	DESSERT MICROWAVE	5	6	POS/PRINTER	12	12	1/2"	360	1	20
20	1	1200	1/2"	12	12	FUDGE WARMER	7	8	POS	12	12	1/2"	360	1	20
20	1	240	1/2"	12	12	ICE CREAM FREEZER	9	10	RECEPT. WOMEN'S/MEN'S ROOM	12	12	1/2"	360	1	20
20	1	948	1/2"	12	12	SINGLE SECTION REFRIGERATOR	11	12	RECEPT. SERVICE AREA	12	12	1/2"	1500	1	20
20	1	612	1/2"	12	12	AIR CURTAIN	13	14	SPACE						
20	1	1200	1/2"	12	12	MERCHANDISER	15	16	SPACE						
20	1	1032	1/2"	12	12	SALAD STATION	17	18	LIGHTS KITCHEN/OFFICE/EXTERIOR/EMERG	12	12	1/2"	462	1	20
20	1	828	1/2"	12	12	SOUP WELLS	19	20	LIGHTS WOMEN'S/MEN'S/VESTIBULE/EMERG	12	12	1/2"	159	1	20
20	1	828	1/2"	12	12	SOUP WELLS	21	22	LIGHTS SERVICE AREA/DINING 2/EMERG	12	12	1/2"	618	1	20
20	1	360	1/2"	12	12	RECEPT. EXTERIOR	23	24	LIGHTS DINING 2/EMERG	12	12	1/2"	328	1	20
20	1	300	1/2"	12	12	SOUND SYSTEM	25	26	LIGHTS DINING 1/LOBBY/WAITING/EMERG	12	12	1/2"	399	1	20
20	1	720	1/2"	12	12	RECEPT. OFFICE	27	28	LIGHTS EXTERIOR SOFFIT	12	12	1/2"	137	1	20
20	1	360	1/2"	12	12	POS	29	30	LIGHTS EXTERIOR	12	12	1/2"	765	1	20
20	1	360	1/2"	12	12	TIME CLOCK	31	32	SIGN EAST	12	12	1/2"	1200	1	20
20	1	360	1/2"	12	12	PHONE BOARD	33	34	SIGN NORTH	12	12	1/2"	1200	1	20
20	1	300	1/2"	12	12	BUG ZAPPER	35	36	CEILING RECEPTACLES	12	12	1/2"	180	1	20
20	1	540	1/2"	12	12	RECEPT DINING 2/VEST./KITCHEN/GAS W.H.	37	38	CEILING RECEPTACLES	12	12	1/2"	180	1	20
						SPACE	39	40	CEILING RECEPTACLES	12	12	1/2"	180	1	20
						SPACE	41	42	CEILING RECEPTACLES	12	12	1/2"	180	1	20

SUBTOT. 13788 VA TOTAL LOAD = 23,795 VA SUBTOT. 10007 VA

PANEL-C
DEMAND LOAD CALCULATIONS

TOTAL RECEP. LOAD	6,240 VA			
RECEP. 1st 10,000 VA @ 100%	6,240	@100%	6,240	VA
REST @ 50%	0	@50%	0	VA
LIGHTING LOAD @ 125%	5,267	@125%	6,583	VA
LARGEST MOTOR @125%	0	@125%	0	VA
OTHER MOTORS @ 100%	0	@100%	0	VA
AIR CONDITIONERS @ 100%	0	@100%	0	VA
KITCHEN EQUIPMENT @ 65%	12,288	@65%	7,987	VA
REST OF ALL OTHER LOADS @ 100%	0	@100%	0	VA
	TOTAL LOAD =		20,810	VA
CURRENT PER PHASE	= TOTAL LOAD (VA) / 240			
	= 87	AMPS		

* NON SIMULTANEOUS LOAD
VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS



Electrical Riser Diagram
NTS

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

BUCHANAN P.E. CONSULTING INC.
ELECTRICAL * MECHANICAL * PLUMBING
ENGINEERING
6191 W. ATLANTIC BLVD., SUITE #2
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Email: mepengineers@aol.com
RAJA BUCHANAN FL P.E # 48916
CERTIFICATE OF AUTHORIZATION # 8842

SEAL
RAJA BUCHANAN
FL P.E # 48916
MAR. 20 2013
DATE:

PROFESSIONAL SEAL

RON FAIRCHILD
AR0016263

Ron Fairchild
ARCHITECT

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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
1 CITY COMMENTS 03-12-13

Electrical Riser Diagram, Panel Schedules & Notes

Electrical Plans Examiner
CHECKED MAY 17 2013

SHEET
E-3

PROJECT: 12008
DATE: 01-18-13

GENERAL PLUMBING NOTES

PLUMBING FIXTURES SHALL COMPLY WITH (F.B.C. 2010 PLUMBING TABLE 604.4)

DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.

ALL WORK AND MATERIALS SHALL COMPLY WITH LATEST EDITIONS OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.

THE PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE PART OF THIS CONTRACT.

ALL MATERIALS SHALL BE NEW AND FREE OF NOTICEABLE DEFECTS.

ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE ENGINEER/ARCHITECT AS SUCH.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. IMMEDIATELY ADVISE THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES. ALL EXISTING PLUMBING SHOWN ON THE PLANS IS ESTIMATED AND MAY NOT BE IN THE SAME LOCATION AS SHOWN, CONTRACTOR MUST VERIFY EXISTING PLUMBING PRIOR TO COMMENCING WORK.

PROVIDE A MINIMUM PITCH OF 1/8" FOR 3" OR LARGER PIPES, 1/4" PITCH FOR LESS THAN 3" PIPES.

PROVIDE A CLEANOUT AT THE BASE OF EACH SOIL AND WASTE STACK.

PROVIDE MEANS OF RESEALING ALL FLOOR DRAINS.

AN OPEN VENT TERMINAL FROM A DRAIGAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPENABLE WINDOW, OR OTHER AIR INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING, AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS AT LEAST 2 FEET ABOVE THE TOP OF SUCH OPENING. (F.B.C. 2010 PLUMBING 904.5)

PROVIDE 1/2" COLD WATER TRAP PRIMER FOR ALL DRAINS FROM THE NEAREST PLUMBING FIXTURE, WHERE APPLICABLE.

SHUTOFF VALVE SHALL BE INSTALLED ON THE WATER SUPPLY PIPE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT AS PER (F.B.C. 2010 PLUMBING 606.2.3)

A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK – CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK – CLOSING VALVE. ACCESS SHALL BE PROVIDED TO WATER HAMMER ARRESTORS.

NO HOT WATER WITH A TEMPERATURE HIGHER THAN 140° TO DISCHARGE INTO SANITARY.
THE DEVELOPED LENGTH OF HOT WATER PIPING FROM THE SOURCE OF HOT WATER SUPPLY TO THE FARTHEST FIXTURE SHALL BE LESS THAN 100 FT.

RESTROOMS SHALL COMPLY WITH (F.B.C. 2010 BUILDING SECTION 13–412.1.ABC.2.5.2)

SHOWER VALVE TO COMPLY WITH (F.B.C. 2010 PLUMBING 424.3)

THE HOT WATER SUPPLY TO ANY FIXTURE REQUIRING HOT WATER SHALL BE INSTALLED ON THE LEFT SIDE OF THE FIXTURE. (F.B.C. 2010 PLUMBING 607.4)

ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR OR STANDPIPE. WASTE RECEPTORS AND STANDPIPES SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FT IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FT IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. (F.B.C. 2010 PLUMBING 802.2)

ALL DEVICES INTENDED TO SERVE SOME SPECIAL FUNCTION AND THAT CONNECT TO THE WATER SUPPLY SYSTEM SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. (F.B.C. 2010 PLUMBING 608.3)
NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND, DISINFECTED PRIOR TO UTILIZATION. (F.B.C. 2010 PLUMBING 610.1)

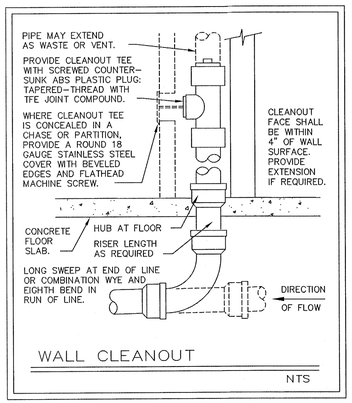
THE WATER SUPPLY CONNECTION TO CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED AGAINST BACKFLOW BY A DOUBLE CHECK VALVE WITH AN INTERMEDIATE ATMOSPHERIC VENT CONFORMING TO ASSE 1022 OR BY AN AIR GAP. (F.B.C. 2010 PLUMBING 608.16.1)

WASTE OUTLET SERVING SHOWERS SHALL BE AT LEAST 1½ INCHES IN DIAMETER AND, FOR OTHER THAN WASTE IN BATH TUBS, SHALL HAVE REMOVABLE STRAINER NOT LESS THAN 3 INCHES IN DIAMETER WITH STRAINER OPENING NOT LESS THAN 0.25 INCH IN MINIMUM DIMENSION. (F.B.C. 2010 PLUMBING 417.3)

DISCHARGE FROM A COMMERCIAL DISHWASHING MACHINE SHALL BE THROUGH AN AIR GAP OR AIR BREAK INTO A STANDPIPE OR WASTE RECEPTOR. (F.B.C. 2010 PLUMBING 802.1.7)

HOT WATER AND DRAIN PIPES UNDER SINKS AND/OR LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES. (F.B.C. 2010 BUILDING 11–4.19.4 & 11–4.24.6)

PROVIDE BACKFLOW PREVENTER FOR COFFEE AND TEA BREWER, ICE WATER STATION, BAG IN BOX SYSTEM AND HOT FOOD UNIT.



WALL CLEANOUT

NTS

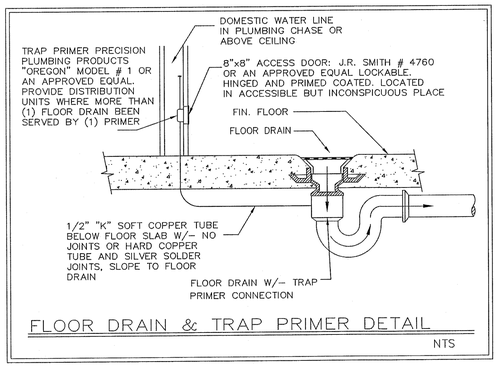
SANITARY SIZING CALCULATION TABLE 709.1			
FIXTURE TYPE	NO.	F.U. EACH	TOTAL
WATER CLOSET	2	6	12
LAVATORY	2	1	2
FLOOR DRAIN	2	2	4
TOTAL			18

SANITARY BUILDING DRAIN PIPE = 3"

GREASE SIZING CALCULATION TABLE 709.1			
FIXTURE TYPE	NO.	F.U. EACH	TOTAL
FLOOR SINK	8	2	16
SINK	7	2	14
FLOOR DRAIN	3	2	6
DISHWASHER	1	2	2
TOTAL			38

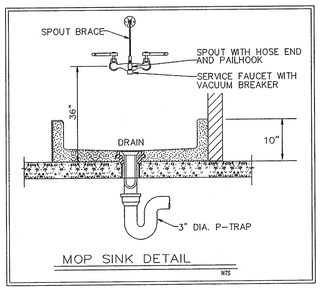
SANITARY BUILDING DRAIN PIPE = 4"

	MIN. SLOPE (INCH PER FOOT)
2 1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16



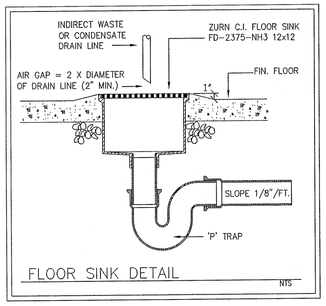
FLOOR DRAIN & TRAP PRIMER DETAIL

NTS



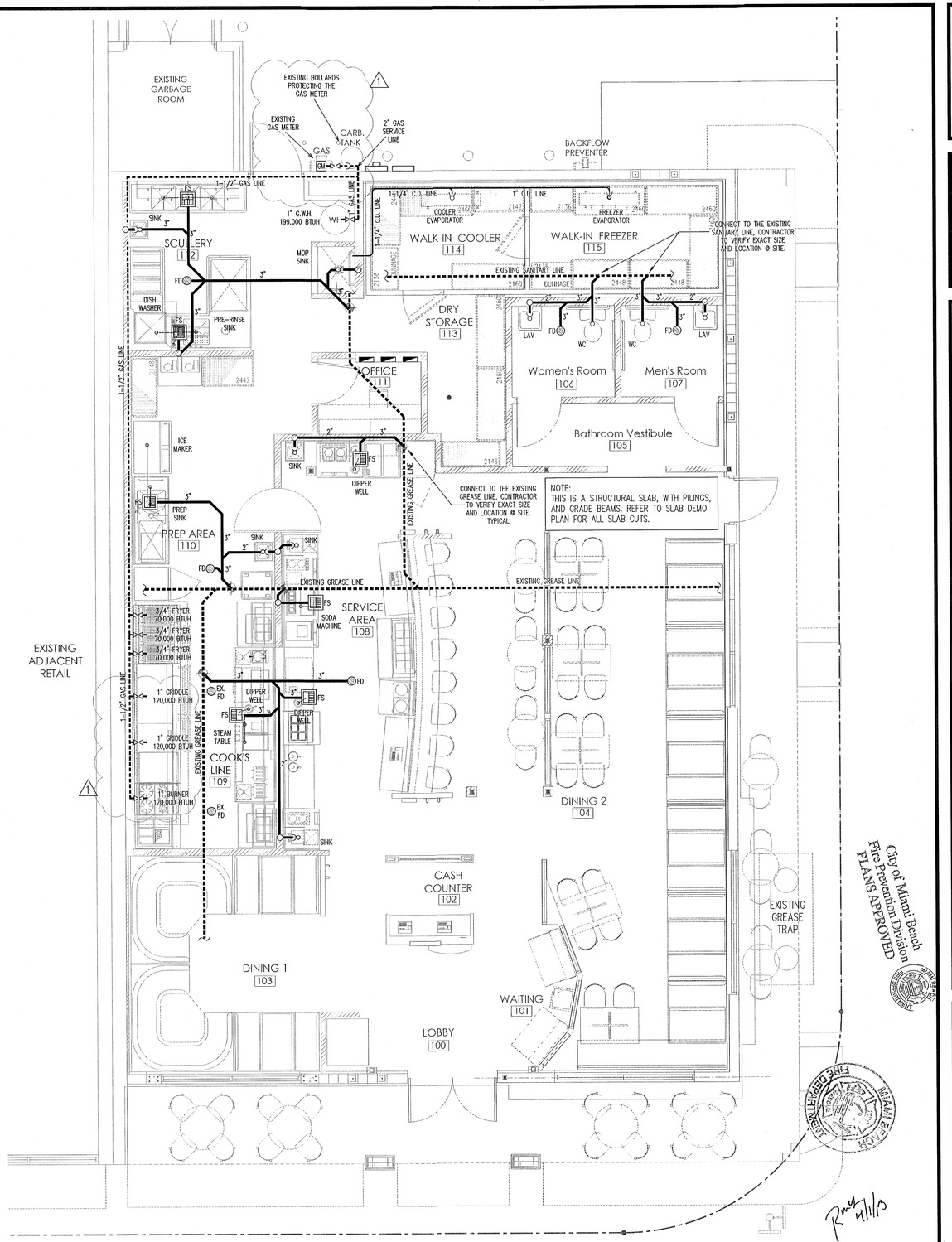
MOP SINK DETAIL

NTS



FLOOR SINK DETAIL

NTS



Sanitary & Gas Plan

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

N

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RAJA BUCHANAN F.L.P.E.# 49916
CERTIFICATE OF AUTHORIZATION # 8842

SEAL
RAJA BUCHANAN F.L.P.E.# 49916
MAR 20 2013
DATE:

PROFESSIONAL SEAL

RON FAIRCHILD
AR0016263

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Renovation for:

Denny's at Collins Avenue

7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

1	CITY COMMENTS	02-15-13

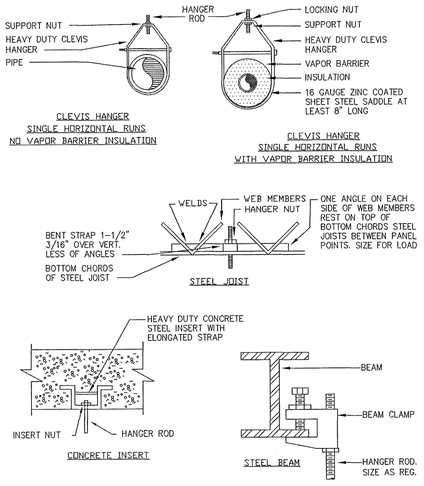
Sanitary & Gas Plan

SHEET

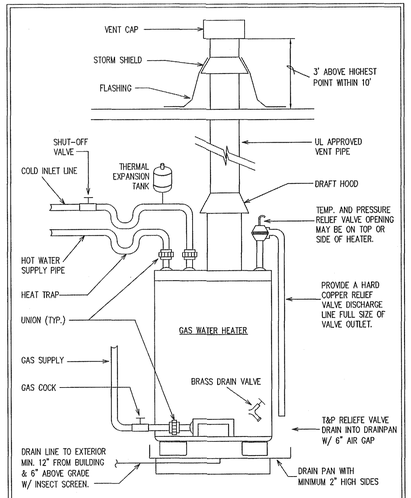
P-1

PROJECT: 12008
DATE: 01-18-13

NOTE: HANGER SPACING SHALL CONFORM TO TABLE 308.5 (F.B.C. 2010 PLUMBING)



PIPE SUPPORT DETAIL
(FOR SANITARY & WATER PIPING) NTS



GAS WATER HEATER DETAIL
N.T.S.

WATER SIZING CALCULATION – FLUSH TANK WC
TABLE E103.3(2)

FIXTURE TYPE	NO.	LOAD VALUES IN WATER SUPPLY FIXTURE UNITS			TOTAL
		COLD WATER	HOT WATER	TOTAL	
WATER CLOSET	2	5.0	–	5.0	10
LAVATORY	2	1.5	1.5	2.0	4
HAND SINK	7	1.5	1.5	2.0	14
MOP SINK	1	2.25	2.25	3.0	3
COMPARTMENT SINK	1	3.0	3.0	4.0	4
ICE MAKER	1	1.0	–	1.0	1
DISH WASHER	1	–	2.0	2.0	2
SODA/COFFEE/TEA	3	0.5	–	0.5	1.5
TOTAL (F.B.C. TABLE 603.1) 1" MIN WATER PIPE DIAMETER REQUIRED					39.5

WATER HEATER NOTES:

INSTALL POTABLE WATER EXPANSION TANK HYDRONIC DETA-12.
(F.B.C. 2010 PLUMBING 607.3.2)

SET WATER HEATER TEMP @ 140°

THE PAN SHALL NOT BE LESS THAN 1-1/2" DEEP AND SHALL BE OF SUFFICIENT SIZE AND SHAPE TO RECEIVE ALL CONDENSATE FROM WATER HEATER. THE PAN SHALL BE DRAINED BY AN INDIRECT WASTE PIPE HAVING A MINIMUM DIAMETER OF 3/4"
(F.B.C. 2010 PLUMBING 504.7.1)

WATER HEATER SHALL BE INSTALLED IN A GALVANIZED STEEL OR OTHER MATEL PAN HAVING A MINIMUM THICKNESS OF 0.0276". ELECTRIC WATER HEATERS SHALL BE INSTALLED IN A METAL PAN AS REQUIRED BY F.B.C. OR IN A HIGH-IMPACT PLASTIC PAN OF AT LEAST 0.0625" THICKNESS.
(F.B.C. 2010 PLUMBING 504.7)

THE RELIEF VALVE SHALL DISCHARGE FULL SIZE TO A SAFE PLACE OF DISPOSAL. THE DISCHARGE PIPE SHALL NOT HAVE ANY TRAPPED SECTIONS AND SHALL HAVE A VISIBLE AIR GAP LOCATED IN THE SAME ROOM AS THE WATER HEATER.
(F.B.C. 2010 PLUMBING 504.6.1)

THE MINIMUM DIAMETER OF WATER SERVICE PIPE SHALL BE 3/4 INCH WATER SERVICE SHALL BE SIZED IN ACCORDANCE WITH TABLE 603.1 OR OTHER APPROVED METHODS.
(F.B.C. 2010 PLUMBING 603.1)

NOTE:

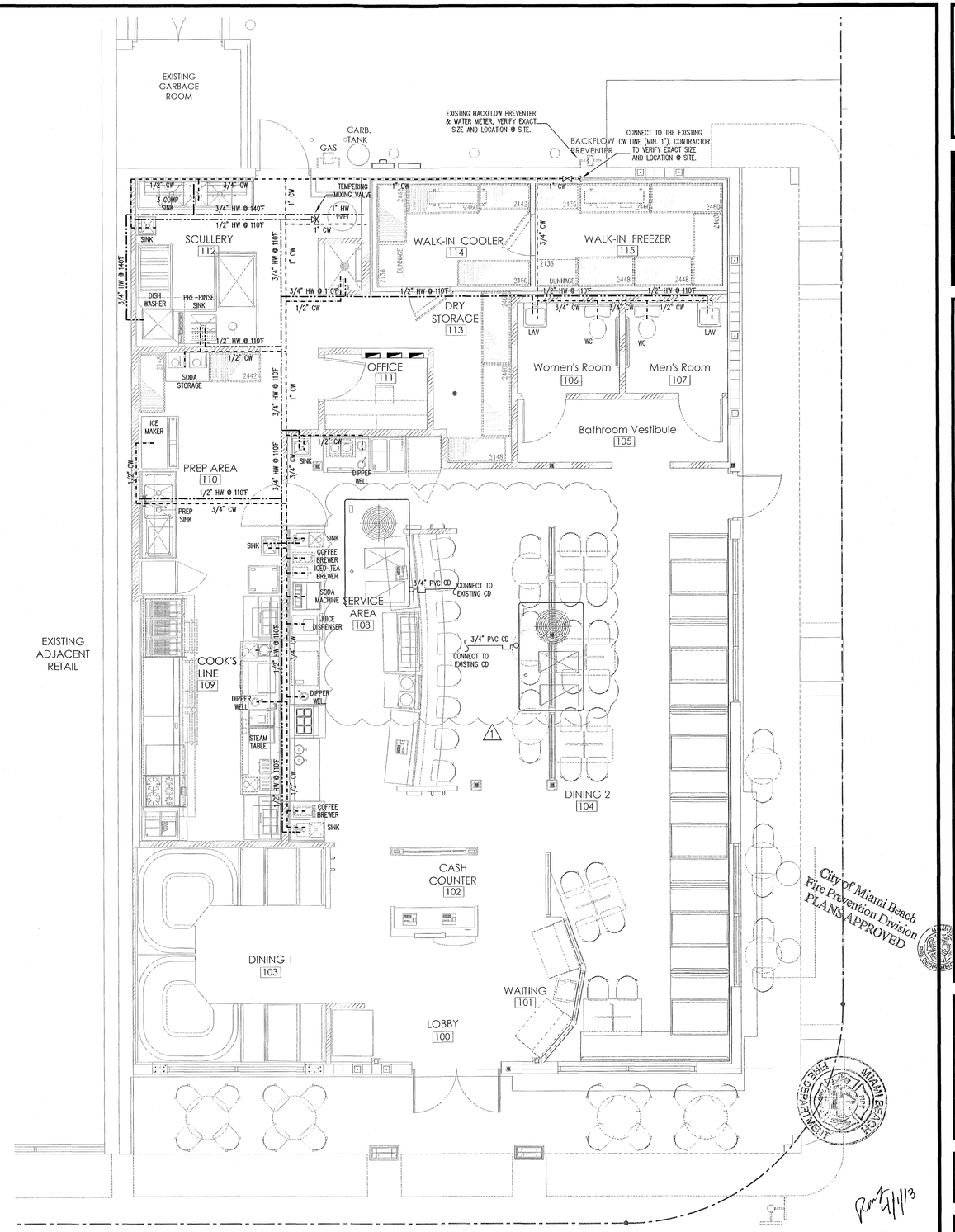
ALL PLUMBING FIXTURES & FAUCETS SHALL COMPLY FBC 2010 PLUMBING CHAPTER 4 "REFERENCE STANDARDS".

ALL PLUMBING FIXTURES & FAUCETS SHALL COMPLY WITH MIAMI-DADE COUNTY MAXIMUM WATER EFFICIENCY ORDINANCE 08-14.

ALL DRAINAGE, VENT PIPES AND FITTINGS SHALL BE SCHEDULE 40 PVC.

ALL ABOVE GRADE WATER PIPING SHALL BE TYPE "L" COPPER TUBING".

1



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

N

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Renovation for:
Dennys at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

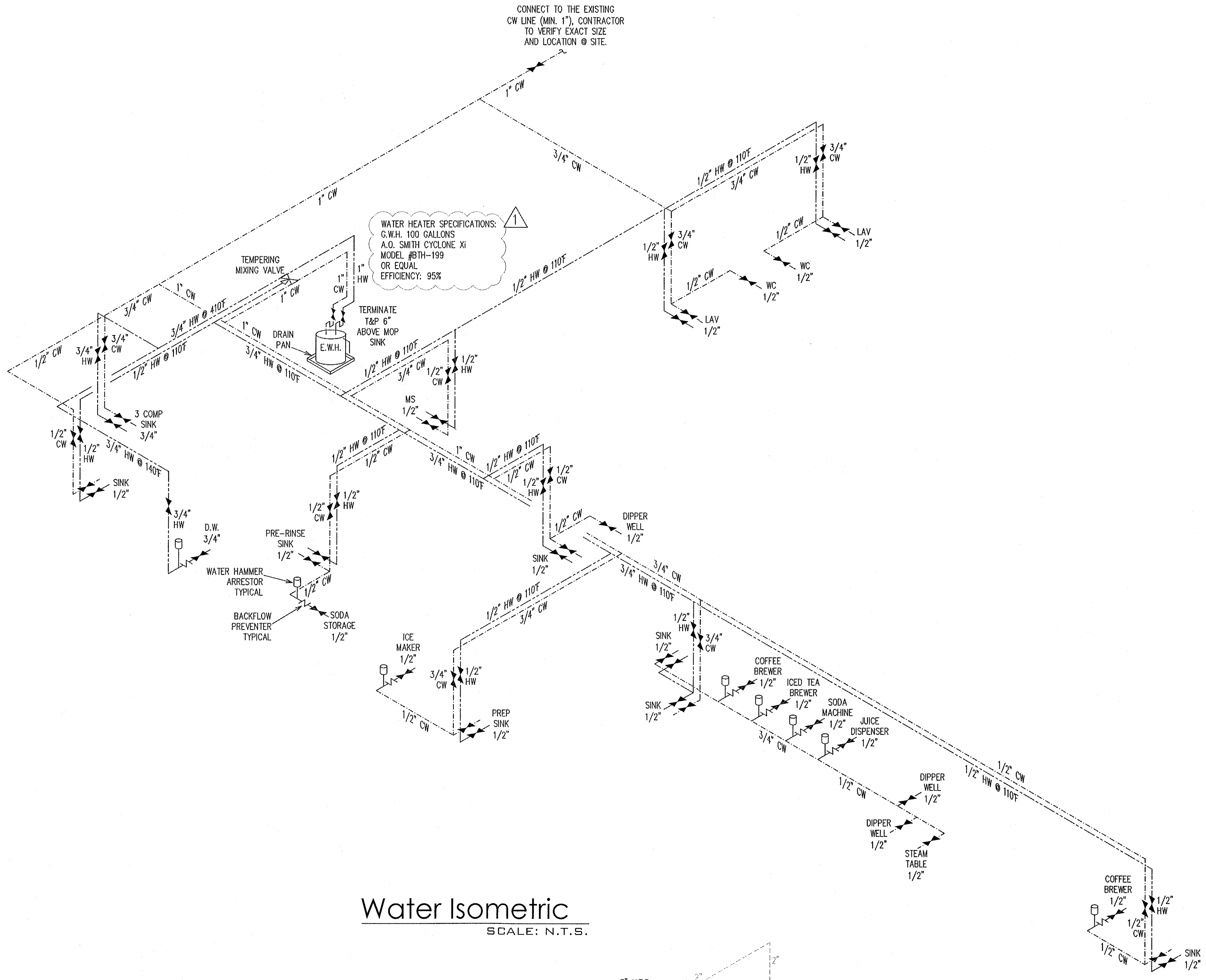
DRAWING REVISION DATES:

1	CITY COMMENTS	02-15-13

Water Plan

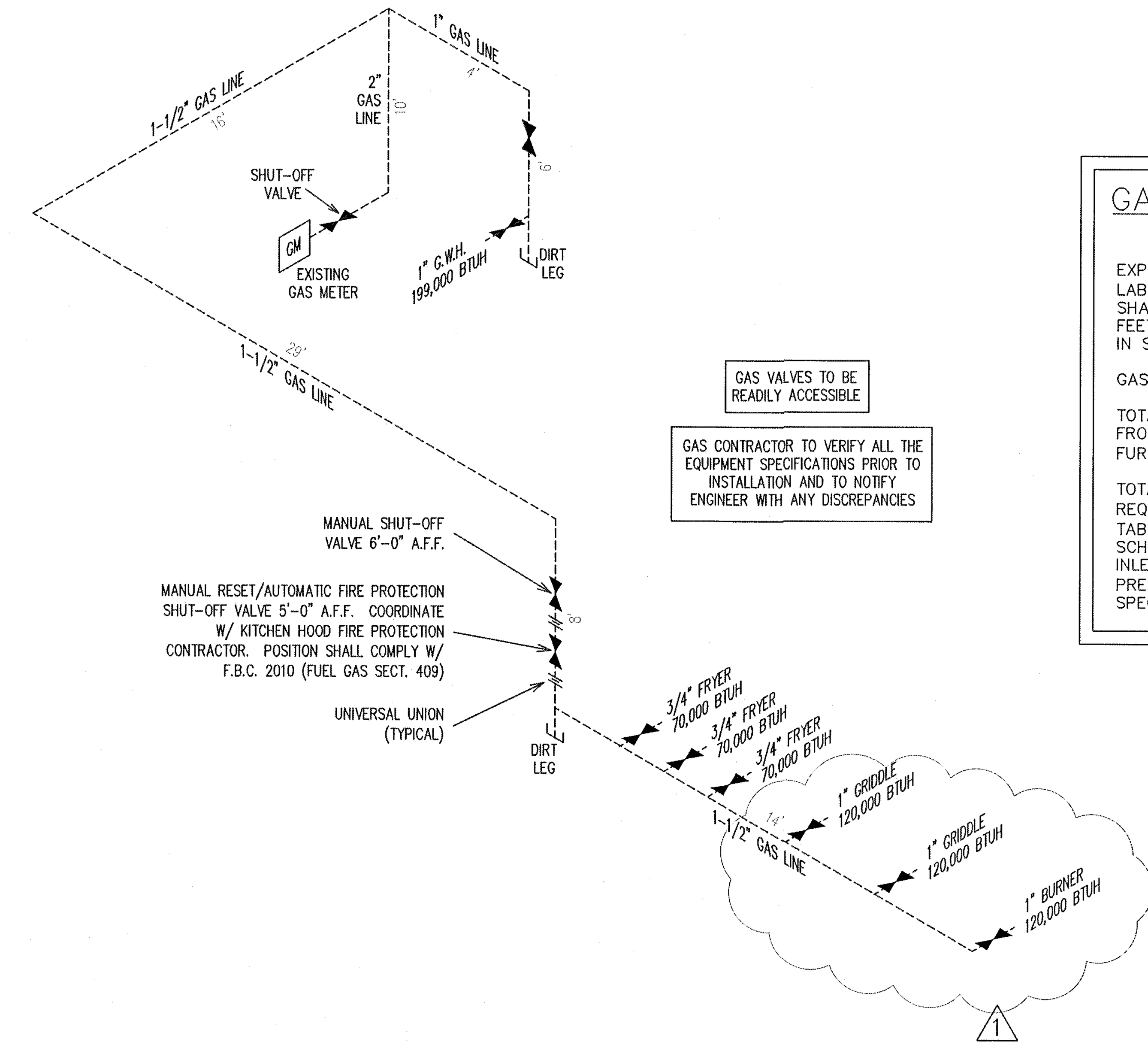
SHEET
P-2

PROJECT: 12008
DATE: 01-18-13



Water Isometric

SCALE: N.T.S.



Gas Isometric

SCALE: N.T.S.

GAS VALVES TO BE READILY ACCESSIBLE

GAS CONTRACTOR TO VERIFY ALL THE EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION AND TO NOTIFY ENGINEER WITH ANY DISCREPANCIES

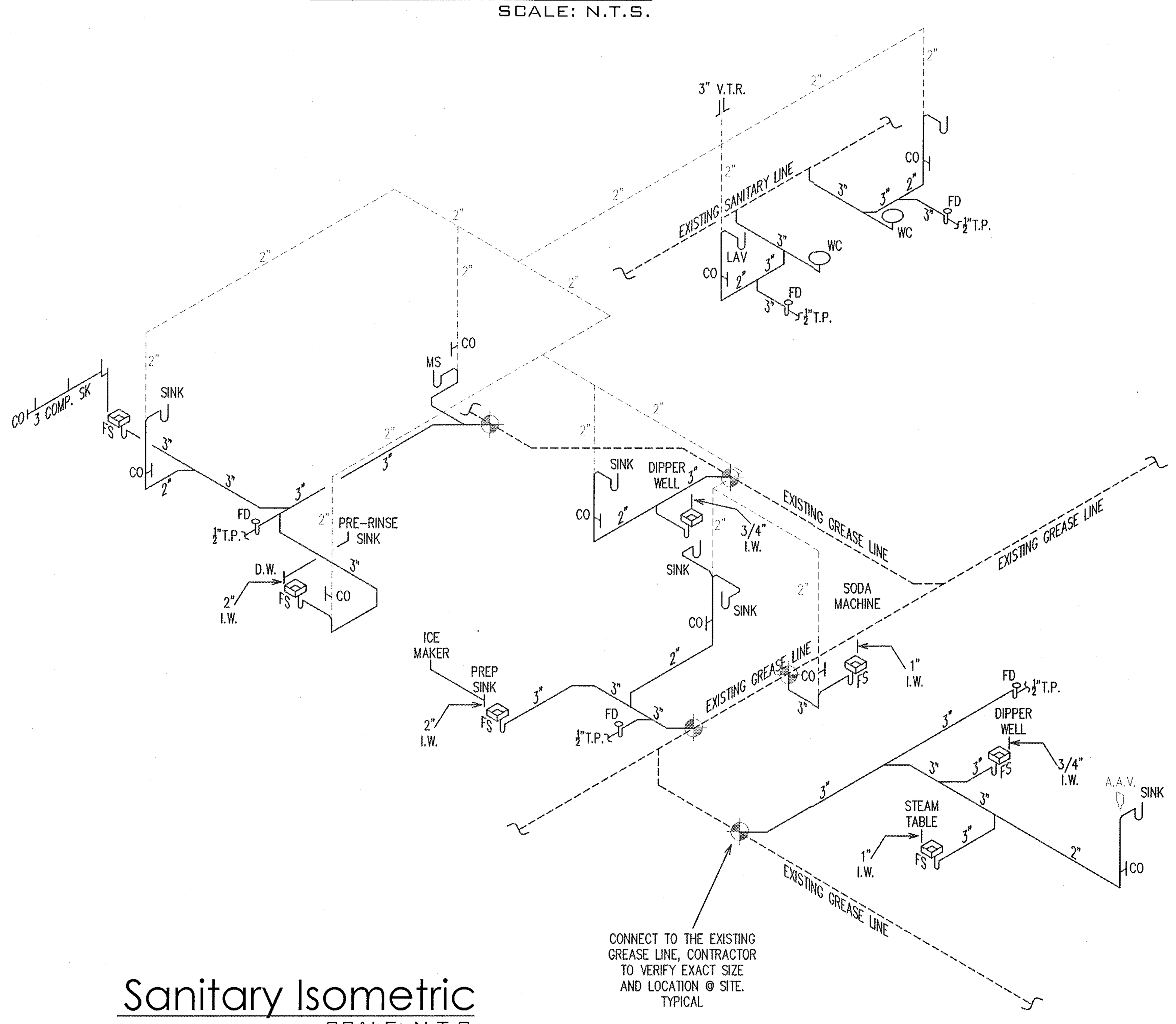
GAS NOTES & CALCULATIONS

EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTERS. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET. *NOT REQUIRED ON STEEL PIPE OR PIPE LOCATED IN SAME ROOM AS EQUIPMENT SERVED.

GAS PIPING TO BE INSTALLED BY LICENSED CONTRACTOR

TOTAL DEVELOPED GAS PIPE LENGTH
FROM REGULATOR TO
FURTHEST APPLIANCE = 77'

TOTAL BTUH LOAD = 769,000 BTUH.
REQUIRES A 2" GAS LINE PER:
TABLE 402.4(2) – NATURAL (F.B.C. 2010 FUEL GAS)
SCHEDULE 40 METALLIC PIPE
INLET PRESSURE: 0.5 P.S.I.
PRESSURE DROP: 0.5" WC
SPECIFIC GRAVITY: 0.60



Sanitary Isometric

SCALE: N.T.S.

	MIN. SLOPE (INCH PER FOOT)
2 1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

City of Miami Beach Fire Prevention Division PLANS APPROVED

4/1/13

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MAR 20 2013
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Renovation for: Denny's at Collins Avenue
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Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

1	CITY COMMENTS	02-15-13

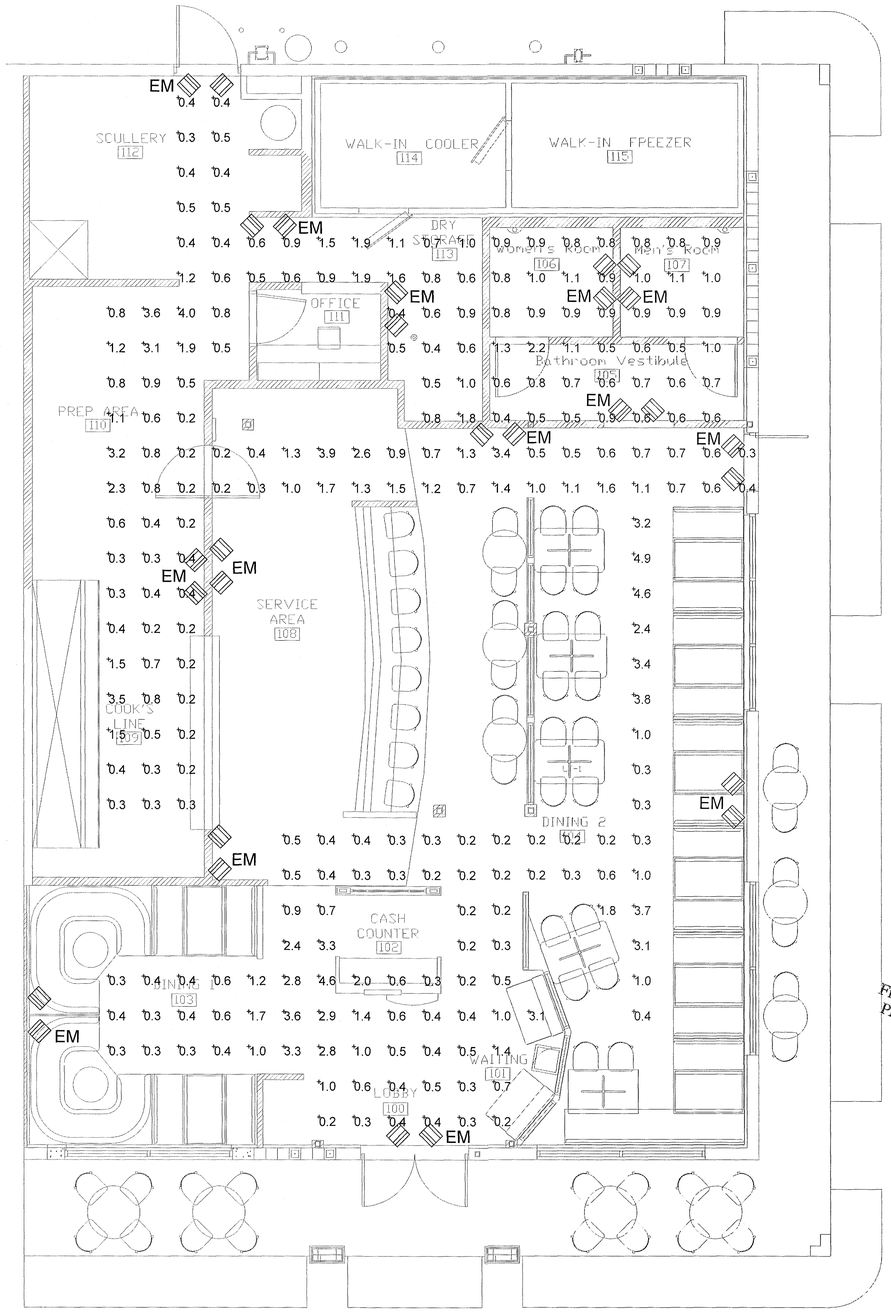
Plumbing Risers

SHEET
P-3

PROJECT: 12008
DATE: 01-18-13

LUMINAIRE SCHEDULE						
Symbol	Label	Qty	Catalog Number	File	Lumens	LLF
	EM	14	DUAL LITE LZ25D10W (WALL MT)	lz-0610.ies	137	0.90

STATISTICS					
Description	Avg	Max	Min	Max/Min	Avg/Min
Emergency Egress Lighting	1.0 fc	4.9 fc	0.2 fc	24.5:1	5.0:1



Photometric Plan

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

N

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

MIAMI BEACH FIRE DEPARTMENT

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STATE OF FLORIDA
MAR 20 2013
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Renovation for:

at Collins Avenue

7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

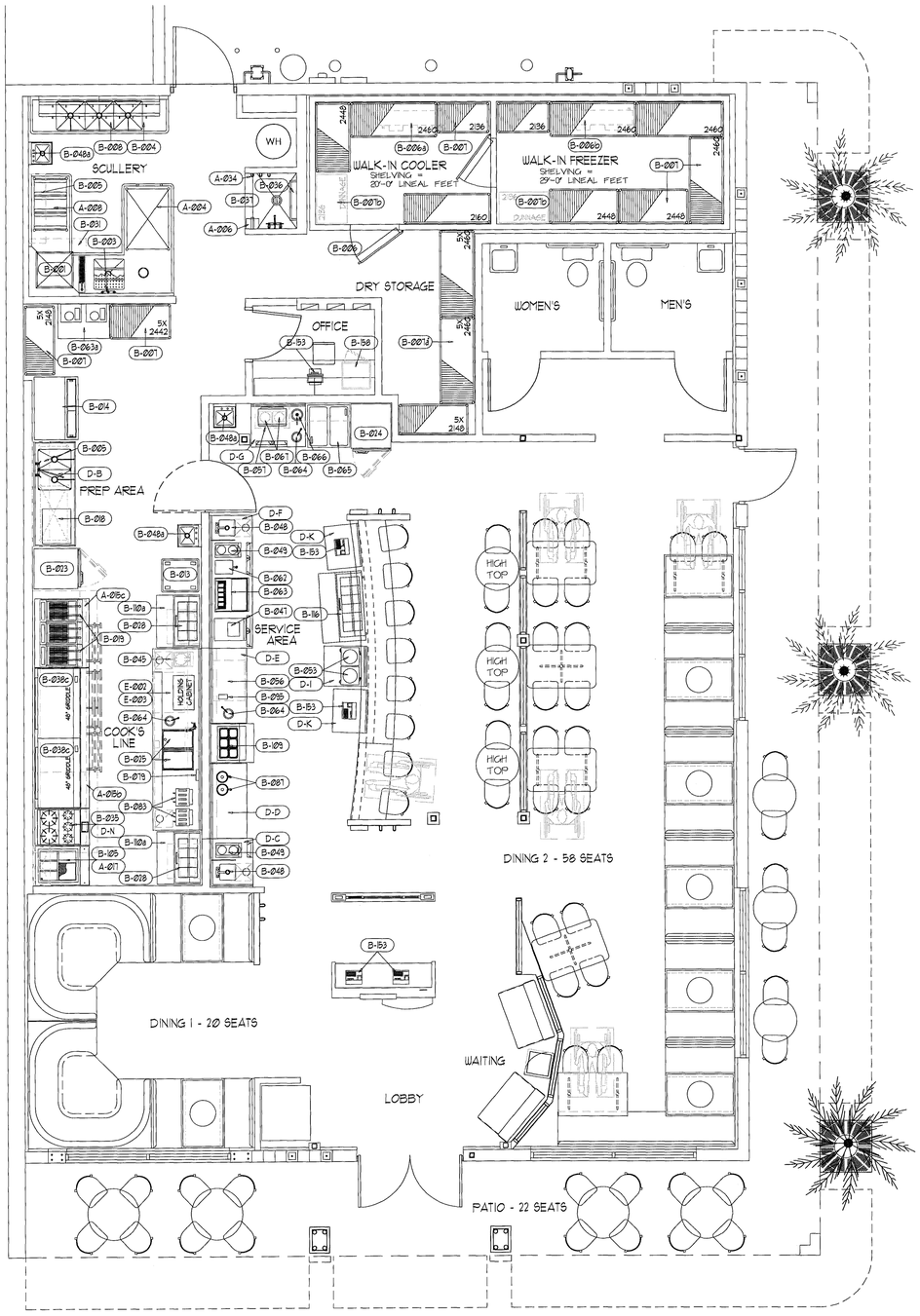
1 CITY COMMENTS, ADDED THIS SHEET 03-12-13

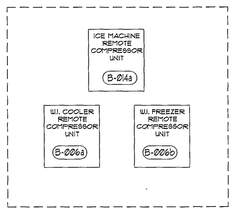
Photometric Plan

SHEET

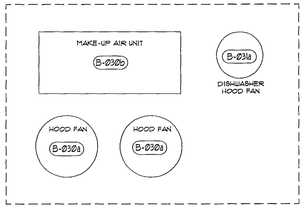
PH-1

PROJECT: 12008
DATE: 01-18-13





REMOTE REFRIG. EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)



KITCHEN VENTILATION EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

FOOD SERVICE EQUIPMENT FLOOR PLAN - SEATS 100

REVISION
1
2
3

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A-1 RESTAURANT EQUIPMENT

FOOD SERVICE EQUIPMENT & FURNISHING DEALER

295 SOUTH 250 EAST
BURLEY, ID 83318
PHONE- 208-677-3285
FAX- 208-677-9980
E-MAIL- justin@alreq.com

PROJECT:
DENNY'S RESTAURANT
-
MIAMI BEACH, FL

SHEET TITLE
EQUIPMENT FLOOR PLAN

JOB NUMBER
-

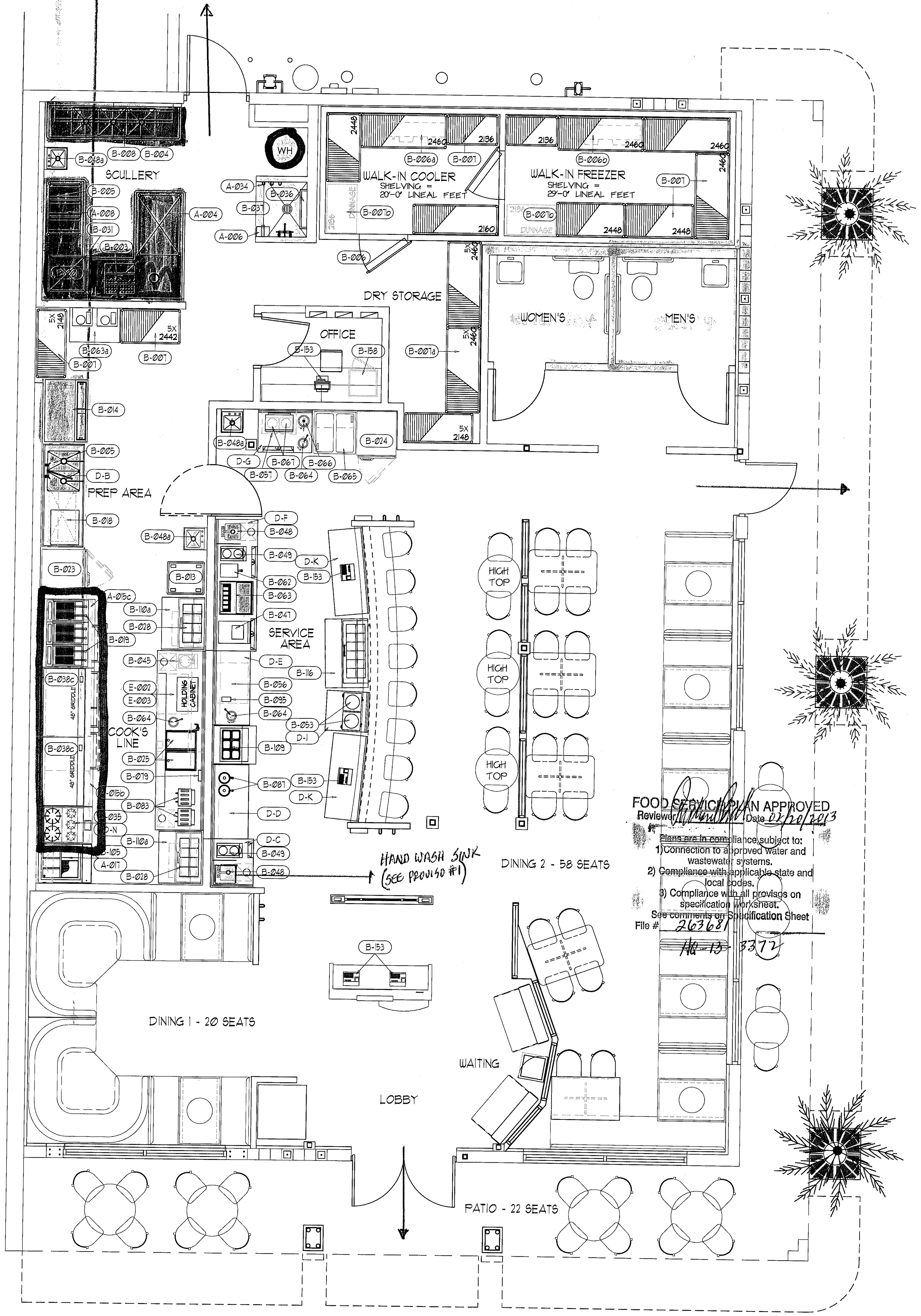
DRAWN BY
J. Silcock

DATE
21 DECEMBER 2012

SCALE
1/4"=1'-0"

APPROVED BY

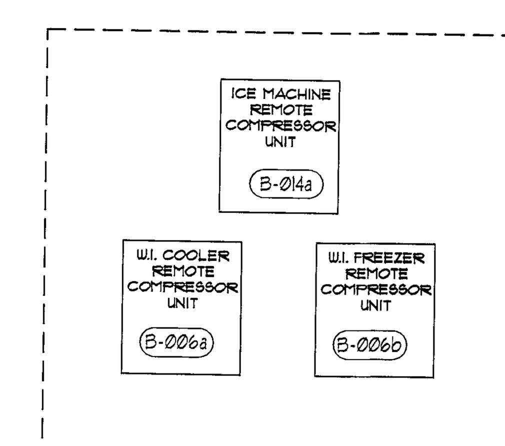
SHEET NUMBER
FS-1



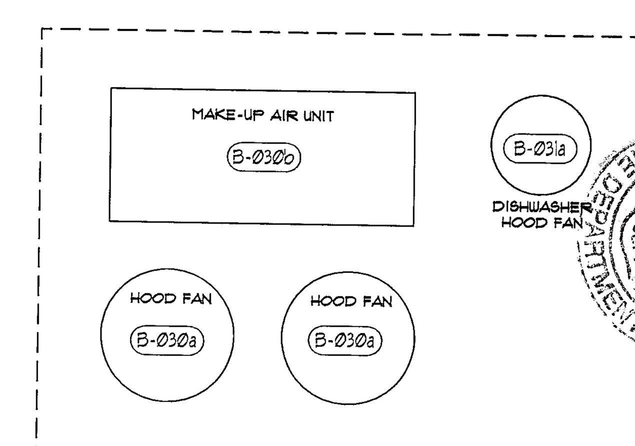
FOOD SERVICE EQUIPMENT FLOOR PLAN - SEATS 100

CITY OF MIAMI BEACH
REFERENCE ONLY

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



REMOTE REFRIG. EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)



KITCHEN VENTILATION EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)

REVISION

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A-1 RESTAURANT EQUIPMENT

FOOD SERVICE EQUIPMENT & FURNISHING DEALER

295 SOUTH 250 EAST
BURLEY, ID 83318
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PROJECT: DENNY'S RESTAURANT - MIAMI BEACH, FL

SHEET TITLE
EQUIPMENT FLOOR PLAN

JOB NUMBER
-

DRAWN BY
J. Silcock

DATE
21 DECEMBER 2012

SCALE
1/4"=1'-0"

APPROVED BY

SHEET NUMBER
FS-1

"A" EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/MODEL	VOLTS	PH.	LOAD	CONN. TYPE	AFF.L.	REMARKS	H.W.	C.W.	F.W.	ID. W/ST	WASTE	GAS	MBTU	AFF.L.	REMARKS
A001	10	CORNER PROTECTOR	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A004	1	SOILED DISHTABLE W/ RACK OVER SHELF	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	2"	-	-	-	T.B.D.	DRAIN TO F.S.
A006	1	HOSE HANGER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A008	1	CLEAN DISHTABLE	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A012	1	6/8 WALL FLASHING AT HOOD	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A015a	0	2 DRAWER REFRIGERATED BASE	OMNITEMP / CUSTOM	120	1	5.0A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
A015b	1	4 DRAWER REFRIGERATED BASE	OMNITEMP / CUSTOM	120	1	5.0A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
A015c	1	2 DRAWER FREEZER BASE	OMNITEMP / CUSTOM	120	1	10.0A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
A017	1	FRY PAN SHELF	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A019	3	MICROWAVE SHELF	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A027	1	PASS-THROUGH WINDOW W/ SHELF	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A027a	2	PASS-THRU HEAT LAMPS	HATCO / GRAH-60D	208	1	13.4A	J-BOX	NOTE 2	MTD. THRU PASS SHELF	-	-	-	-	-	-	-	-	-
A034	1	MOP HOLDER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A036	1	FLOOR MAT HANGERS	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A037	1	6/8 WALL FLASHING AT MOP SINK	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A041	1	PRINTER SHELF	STAINLESS FABRICATOR	-	-	-	-	-	POWER & CABLE ABOVE	-	-	-	-	-	-	-	-	MTD. ABOVE PASS-THRU

"B" EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	VOLTS	PH.	LOAD	CONN. TYPE	AFF.L.	REMARKS	H.W.	C.W.	F.W.	ID. W/ST	WASTE	GAS	MBTU	AFF.L.	REMARKS
B001	1	DISHWASHER	ECO-LAB	VER.	VER.	VER.	J-BOX	60"	VER. WITH VENDOR	3/4"	-	-	2"	-	-	-	60"	140 DEG. F. H.W.
B002	0	ICE BIN	GLASSTENDER / D1-1B18	-	-	-	-	-	-	-	-	-	1"	-	-	-	-	DRAIN TO F.S.
B003	1	PRE-RINSE FAUCET	KROWNE / 17-100W	-	-	-	-	-	-	1/2"	1/2"	-	-	-	-	-	18"	MTD. ON A-04
B004	1	POT RACK	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B005	3	6/8 WALL SHELF (SIZE PER PLAN)	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B006	1	WALK-IN COOLER / FREEZER	U.S. COOLER / CUSTOM	120	1	10.0A	J-BOX	108"	LIGHTS & DOOR HEATER	-	-	-	-	-	-	-	-	-
B006A	1	WALK-IN COOLER COIL	U.S. COOLER / CUSTOM	120	1	5.0A	J-BOX	108"	SEE SHOP DWG'S.	-	-	-	1"	-	-	-	-	DRAIN TO F.S.
B006A	1	WALK-IN COOLER CONDENSER	U.S. COOLER / CUSTOM	208	3	10.0A.	J-BOX	ROOF	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	-
B006B	1	WALK-IN FREEZER COIL	U.S. COOLER / CUSTOM	208	1	15.0A	J-BOX	108"	SEE SHOP DWG'S.	-	-	-	1"	-	-	-	-	DRAIN TO F.S.
B006B	1	WALK-IN FREEZER CONDENSER	U.S. COOLER / CUSTOM	208	3	15.0A	J-BOX	ROOF	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	-
B007	1 LOT	WALK-IN SHELVING	INTERMETRO/METROMAX Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B007A	1 LOT	SHELVING DRY STORAGE	INTERMETRO/METROMAX Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B007B	1 LOT	DUNNAGE RACKS	INTERMETRO/METROMAX Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B008	1	3 COMPARTMENT SINK	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	1 1/2"	-	-	-	T.B.D.	DRAIN TO F.S.
B008a	2	3 COMPARTMENT SINK FAUCET	KROWNE / 14-812	-	-	-	-	-	-	1/2"	1/2"	-	-	-	-	-	+12"	-
B011	0	SECURITY CAGE FOR CHEMICALS	INTERMETRO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B013	1 LOT	BREAD RACKS	BY VENDOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B014	1	ICE MAKER, 1300 LBS.	HOSHIZAKI / KM-1300SRH	208/120	1	14.5A	J-BOX	72"	INTERCONNECT POWER FROM ICE MAKER TO CONDENSER	-	-	1/2"	3/4"	-	-	-	72"	DRAIN TO F.S.
B015	4	FIRE EXTINGUISHER	(1) CLASS K & (3) 2A-10 BC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BY G.C.
B017	1	FIRE SUPPRESSION SYSTEM	CAPTIVE AIRE - ANSUL R102	120	1	2.0A	J-BOX	VER.	-	-	-	-	-	-	-	-	-	-
B018	1	CONVECTION OVEN	CADCO / OVO-13	120	1	12.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B019	3	FRYER COUNTER MODEL	PITCO / SGC	-	-	-	-	-	-	-	-	-	-	-	3/4"	70	12"	W/48" QUICK DISC.
B019A	1	FRYER FILTER	PITCO/P-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B019B	1	FRYER TIMER	NCC/AMETEK	120	1	2.0A	D.C.O.	-	POWERS THRU FRY WARMER	-	-	-	-	-	-	-	-	-
B023	1	SINGLE SECTION FREEZER	TRUE / T-23F-2	120	1	7.2A	D.C.O	48"	-	-	-	-	-	-	-	-	-	-
B024	1	SINGLE SECTION REFIG.	TRUE / T-23G	120	1	7.9A	D.C.O	48"	-	-	-	-	-	-	-	-	-	-
B025	2	STEAM TABLE	WELLS MFG/ 86206-ULTD	208	1	6.0A	J-BOX	18"	-	-	-	-	1"	-	-	-	-	DRAIN TO F.S.
B025A	1	STEAMTABLE FAUCET	FISHER / 3010	-	-	-	-	-	-	1/2"	-	-	-	-	-	-	18"	MTD. ON COUNTER
B028	2	MICROWAVE OVEN	AMANA / HDC12	120	1	20.0A	D.C.O.	72"		-	-	-	-	-	-	-	-	-
B030	1	EXHAUST HOOD,COOKLINE	CAPTIVE AIRE	120	1	6.0A	J-BOX	108"	LIGHTS	-	-	-	-	-	-	-	-	INSTALLED BY GC
B030A	2	EXHAUST FAN, KITCHEN	CAPTIVE AIRE	208	3	2.7A	J-BOX	VER.	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	INSTALLED BY GC
B030B	1	MAKE-UP AIR UNIT	CAPTIVE AIRE	208	3	9.5A	J-BOX	VER.	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	INSTALLED BY GC
B031	1	DISHWASH VAPOR HOOD	CAPTIVE AIRE	-	-	-	-	-	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	INSTALLED BY GC
B031A	1	EXHAUST FAN, DISHWASHING	CAPTIVE AIRE	120	1	4.1A	J-BOX	VER.	SEE SHOP DWG'S.	-	-	-	-	-	-	-	-	INSTALLED BY GC
B033	2	TICKET RAIL	CARLISLE 4820A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B035	1	EGG RANGE, 6 BURNER	JADE RANGE/JHPE-3-324	-	-	-	-	-	-	-	-	-	-	-	3/4"	120	12"	W/48" QUICK DISC.
B035a	0	PREP RANGE, 2 BURNER	JADE RANGE/JHP-212	-	-	-	-	-	-	-	-	-	-	-	3/4"	40	12"	W/48" QUICK DISC.
B038A	0	FLAT GRIDDLE, 24"	JADE RANGE/JGT-2424	-	-	-	-	-	-	-	-	-	-	-	3/4"	60	12"	W/48" QUICK DISC.
B038B	0	FLAT GRIDDLE, 36"	JADE RANGE/JGT-2436	-	-	-	-	-	-	-	-	-	-	-	3/4"	90	12"	W/48" QUICK DISC.
B038C	2	FLAT GRIDDLE, 48"	JADE RANGE/JGT-2448	-	-	-	-	-	-	-	-	-	-	-	3/4"	120	12"	W/48" QUICK DISC.
B045	2	WAFFLE MAKER	F.S. CARBONS (BY VEND.) / R1	120	1	13.0A	S.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B047	1	JUICE DISPENSER	MINUTE MAID / ESCORT III (BY VENDOR)	120	1	6.3A	D.C.O.	48"	-	-	-	1/2"	-	-	-	-	48"	-
B048	2	UTILITY SINK, DROP-IN	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	1-1/2"	-	-	18"	-
B048A	3	HAND SINK, WALL MOUNTED	STAINLESS FABRICATOR OR METAL MASTERS/HSA-10PU-LRS OR CUSTOM	-	-	-	-	-	-	-	-	-	-	1-1/2"	-	-	18"	-
B048B	5	HAND SINK FAUCETS	KROWNE / 14-406 & 15-306	-	-	-	-	-	INCLUDED IN B048 AND B048A	1/2"	1/2"	-	-	-	-	-	18"	-
B049	2	COFFEE BREWER-FIVE BURNER	BUNN-O-MATIC / CRTF53S	120/240	1	17.0 A	S.C.O.	48"	-	-	-	1/2"	-	-	-	-	48"	-
B053	2	SOUP WELLS	WELLS / SU-10T	120	1	6.3A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B056	1	ROLL WARMER, 2 DRAWER	WELLS/RU126HD	120	1	7.8A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B057	1	DESSERT MICROWAVE	AMANA/HDC12	120	1	15.0A	D.C.O.	72"	-	-	-	-	-	-	-	-	-	-
B059	0	CAPPUCCINO MACHINE	BUNN-O-MATIC / RMD-3BLK	120	1	15.0	D.C.O.	48"	-	-	-	1/2"	-	-	-	-	48"	-

"B" EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	VOLTS	PH.	LOAD	CONN. TYPE	AFF.L.	REMARKS	H.W.	C.W.	F.W.	ID. W/ST	WASTE	GAS	MBTU	AFF.L.	REMARKS
B061	2	ICE TEA DISPENSER	BUNN TD53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B062	1	ICE TEA BREWER	BUNN-O-MATIC / TB3Q	120	1	15.0A	D.C.O.	48"	-	-	-	1/2"	-	-	-	-	48"	-
B063	1	SODA DISPENSER UNIT	BY VENDOR	120	1	2.0A	D.C.O.	12"	-	-	-	1/2"	3/4"	-	-	-	18"	DRAIN TO F.S.
B063A	1	SODA SYSTEM CARBONATOR	BY VENDOR	120	1	7.0A	D.C.O.	72"	-	-	-	3/4"	-	-	-	-	72"	-
B064	3	DIPPERWELL	FISHER	-	-	-	-	-	OPTIONAL AT DISHUP	1/2"	-	-	1"	-	-	-	18"	DRAIN 1/2" TEMPERED WATER TO F.S.
B065	1	ICE CREAM FREEZER	C NEILSON / BD-48C	120	1	2.0A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B066	1	FUDGE WARMER	SERVER PRODUCT/ FSP 82060	120	1	10.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B067	2	BLENDERS	BLENDTEC	120	1	10.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B068	0	HOT WATER DISPENSER	BUNN-O-MATIC / H5X-40-208	208	1	19.2A	D.C.O.	48"	-	-	-	1/2"	-	-	-	-	T.B.D.	-
B070	1	STEAMTABLE TIMER	NCC/AMETEK	120	1	2.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B083	2	TOASTERS, POP UP	TOASTMASTER / 424	208	1	13.5A	S.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B084	0	TOASTER, CONVEYOR (OPTIONAL)	HATCO TQ400	208	1	14.5A	S.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B087	2	SYRUP WARMER	WELLS/ 22813	120	1	1.7A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B095	1	TIME STAMP	WIDMER T-3	120	1	2.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B105	1	EGG REFIGERATOR	TRUE / TSSU-27M-C	120	1	4.9A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B105A	1	SS EGG BASKET	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B109	1	BUTTER REFIGERATOR	TRUE / TSSU-27-8	120	1	4.9A	D.C.O.	18"	-	-	-	-		-	-	-	-	-
B110	0	SALAD STATION-48"	TRUE / TSSU-48-12	120	1	8.6A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B110a	2	SALAD STATION-36"	TRUE / TSSU-36-8	120	1	8.6A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B116	1	SALAD STATION-48"	TRUE / TSSU-48-12	120	1	8.6A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-
B128	1	AIR CURTAIN, 48"	MARS / 48CH	120	1	5.1A	J-BOX	VER	INSTALLED BY GC	-	-	-	-	-	-	-	-	-
B130	1	WATER FILTER SYSTEM	EVERPURE / EVS437-11	-	-	-	-	-	-	-	3/4"	-	-	-	-	-	T.B.D.	INSTALLED BY PLUMBER
B153	1 LOT	P.O.S. SYSTEM	BY OWNER	120	1	VER.	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
B158	1	OFFICE SAFE	A-1 - SAFE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

"D" EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/MODEL	VOLTS	PH.	LOAD	CONN. TYPE	AFF.L.	REMARKS	H.W.	C.W.	F.W.	ID. W/ST	WASTE	GAS	MBTU	AFF.L.	REMARKS
D-A	1	DISH-UP COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-B	1	PREP TABLE	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	2"	-	-	-	T.B.D.	DRAIN TO F.S.
D-B1	1	PREP SINK FAUCET	KROWNE / 14-812	-	-	-	-	-	-	1/2"	1/2"	-	-	-	-	-	+12"	-
D-C	1	BEVERAGE COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-D	1	WAITRESS PICK-UP COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-E	1	WAITRESS PICK-UP COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-F	1	BEVERAGE COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-G	1	DESERT COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-I	1	SOUP COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-K	2	POS & BUSSING COUNTER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-N	1	EGG RANGE TABLE	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D-P	LOT	TRASH AND GREASE CONTAINER	STAINLESS FABRICATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

"E" EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	VOLTS	PH.	LOAD	CONN. TYPE	AFF.L.	REMARKS	H.W.	C.W.	F.W.	ID. W/ST	WASTE	GAS	MBTU	AFF.L.	REMARKS
E-001	0	19" KVS MONITOR	BY OWNER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E-002	1	COUNTER TOP HOLDING CABINET	CARTER HOFFMAN / MC2125	120	1	15.0A	D.C.O.	48"	-	-	-	-	-	-	-	-	-	-
E-003	1	ROLL WARMER, 2 DRAWER	WELLS/RU12HD	120	1	7.8A	D.C.O.	18"	-	-	-	-	-	-	-	-	-	-

FOOD SERVICE PLAN APPROVED
Reviewed by: [illegible] Date: 01/20/2013
Plans are in compliance subject to:
1) Connection to approved water and wastewater systems.
2) Compliance with applicable state and local codes.
3) Compliance with all provisos on specification worksheet.
See comments on Specification Sheet
File # 263601
HQ-13-3372

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

REVISION
1
2
3

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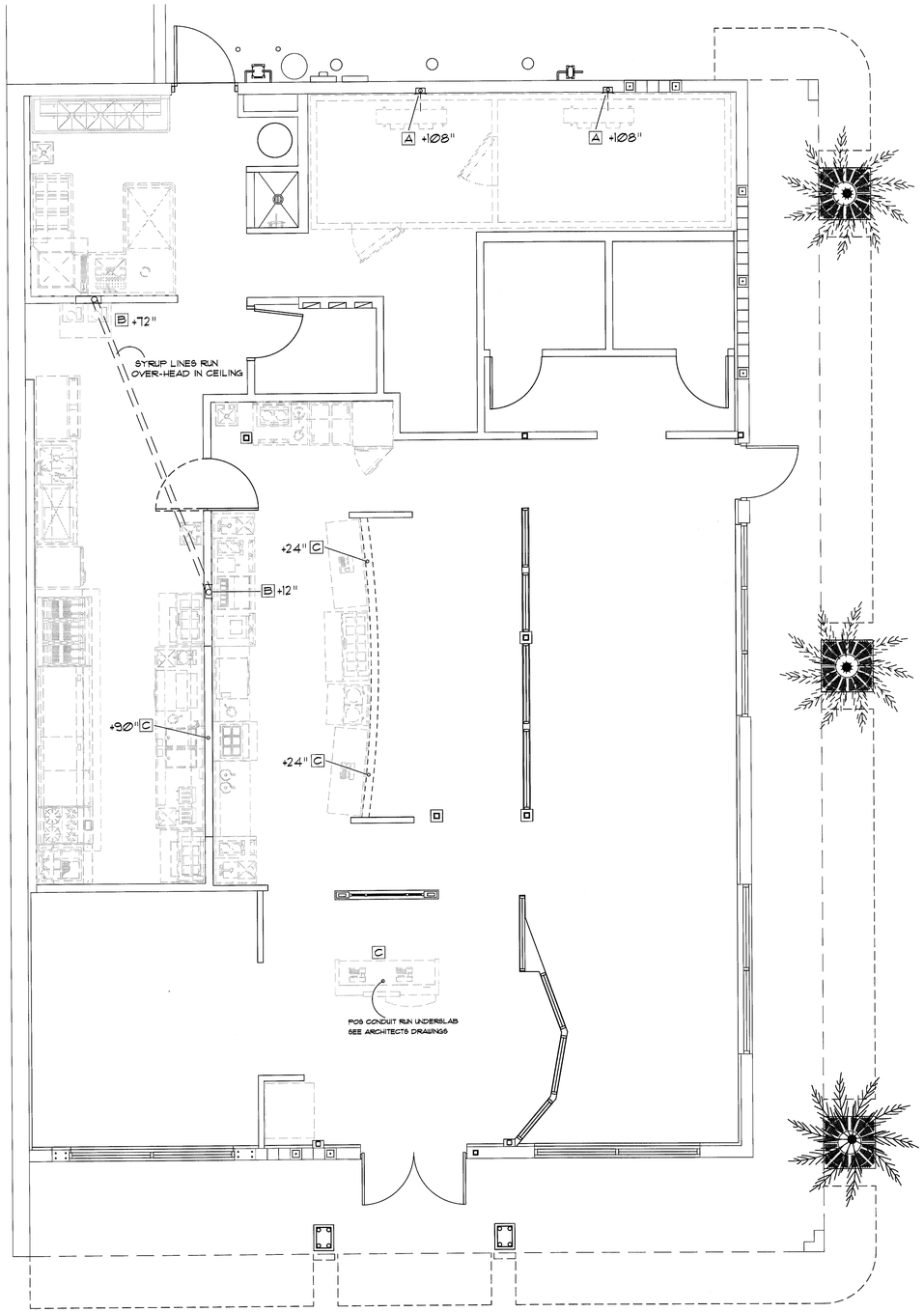
PROJECT:
DENNY'S RESTAURANT
MIAMI BEACH, FL

SHEET TITLE
EQUIPMENT SCHEDULE
JOB NUMBER
-
DRAWN BY
J. Silcock
DATE
21 DECEMBER 2012
SCALE
NONE
APPROVED BY

SHEET NUMBER
FS-1A



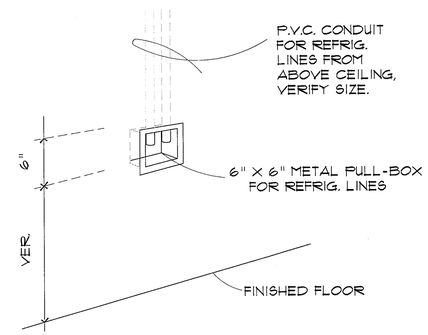
REFRIGERATION NOTES

1. ALL PULLBOXES 12"X12" (EXCEPT WHERE NOTED).
2. GENERAL CONTRACTOR SHALL PROVIDE ALL FLOOR OR ROOF PENETRATIONS, RACEWAYS OR PVC THRU WALLS AND CONDUIT RUNS REQUIRED FROM REMOTE COMPRESSOR RACK LOCATIONS TO REFRIGERATED ITEMS AS REQUIRED BY LOCAL CODES, JOB CONDITIONS, OR AS INDICATED ON PLANS. CONDUIT RUNS SHALL BE RIGID WITH MIN. 24" RADIUS BENDS. PULLBOXES SHALL BE REQUIRED EVERY 48' OF CONDUIT RUN WITH NO MORE THAN TWO (2) BENDS ALLOWED BETWEEN PULLBOXES. NO FACTORY "ELL'S" PERMITTED. NO METAL CONDUIT PERMITTED(UNLESS CODE REQUIRED). SIZE OF CONDUITS AND RACEWAYS SHALL BE VERIFIED WITH REFRIGERATION CONTRACTOR.
3. SEE SHEET F1 FOR ALL GENERAL NOTES.
4. REFRIGERATION CONTRACTOR TO PROVIDE ENCLOSURE ON ROOF IN DESIGNATED AREAS.
5. VERIFY ROOF LOCATION FOR ENCLOSURE.
6. VERIFY LOAD ON ROOF FOR ENCLOSURE AND SIZE PLUS CLEARANCE AND ACCESS SPACE
7. EC TO RUN PVC MIN. OF 24" RADIUS SWEEP. NO FACTORY "ELL'S" SHALL BE ACCEPTED.
8. EC AND PC SHALL SMOOTHLY AND TIGHTLY SEAL ALL PVC FOR BEER COOLER, SYRUP, AND REFRIGERATION LINES TO PREVENT PENETRATION OF SOIL, WATER AND INSECTS, BEFORE AND AFTER PULLING OF LINES. ALL UNDERGROUND PVC LINES SHALL BE "PRESSURE TEST SEALED."

A — 6" X 6" PULLBOX W/ (1 or 2)-2" DIA P.V.C. CONDUIT UP TO ATTIC SPACE FOR REFRIGERATION LINE

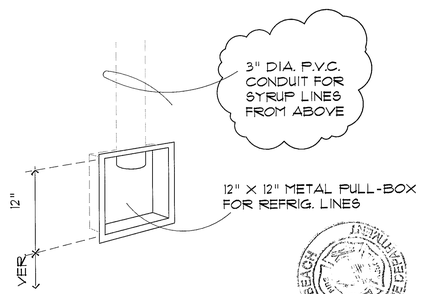
B — 12" X 12" PULLBOX W/ 3" DIA P.V.C. CONDUIT IN WALL FOR SYRUP & CO2 LINES

C — 2" x 4" STANDARD ELECTICAL BOX WITH 3/4" CONDUIT RAN UP TO ATTIC SPACE FOR POS DATA LINES



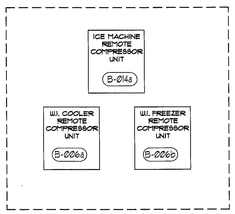
REFRIG. PULL-BOX DETAIL

ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY E.C.



SODA PULL-BOX DETAIL

ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY E.C.



REMOTE REFRIG. EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)

FOOD SERVICE EQUIPMENT CONDUIT PLAN

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

REVISION

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E-MAIL- justin@alreq.com

PROJECT:
DENNY'S RESTAURANT
-
MIAMI BEACH, FL

SHEET TITLE
EQUIPMENT CONDUIT PLAN

JOB NUMBER
-

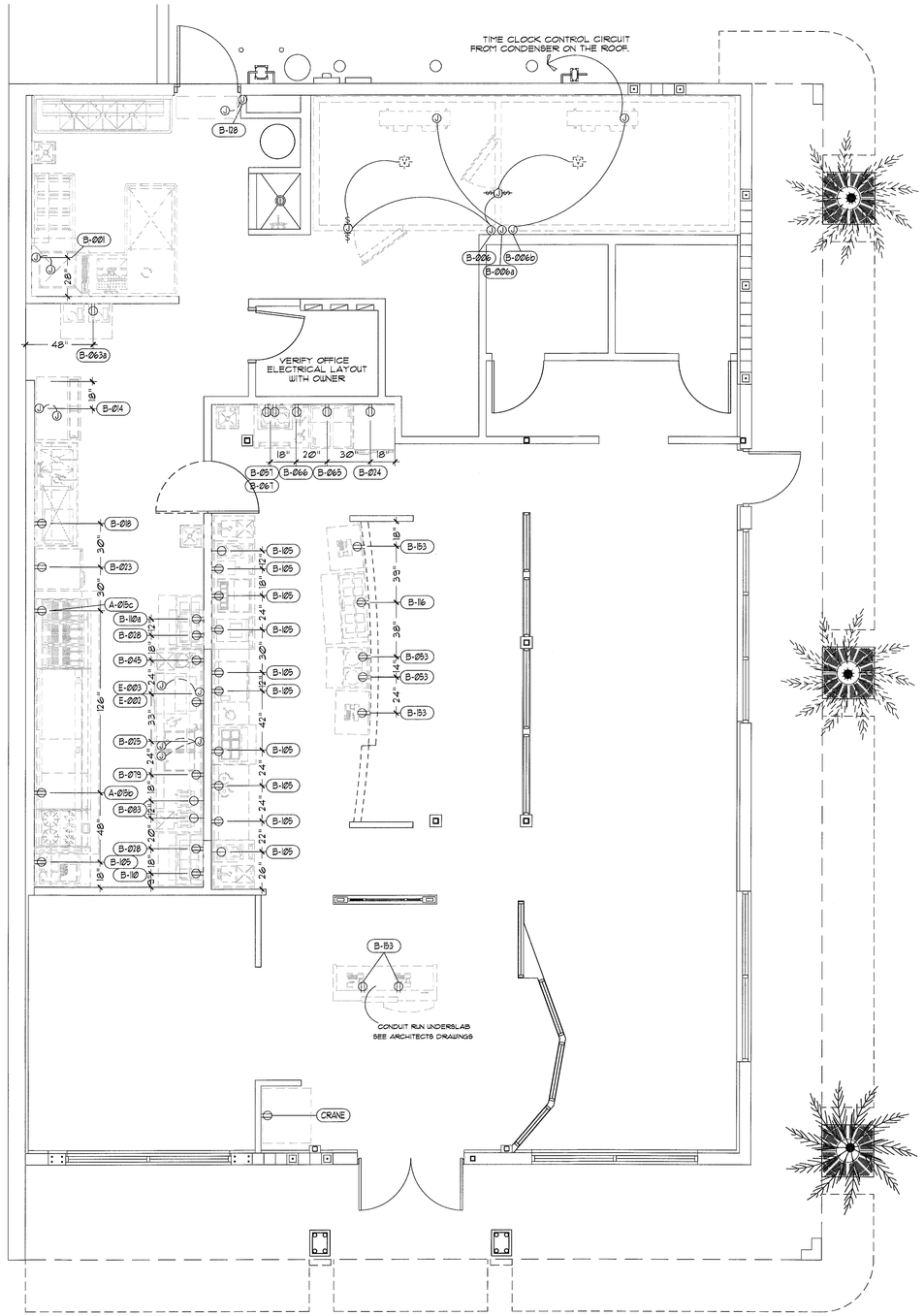
DRAWN BY
J. Silcock

DATE
21 DECEMBER 2012

SCALE
1/4"=1'-0"

APPROVED BY

SHEET NUMBER
FS-2



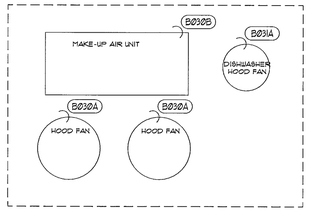
FOOD SERVICE EQUIPMENT ELECTRIAL CONNECTION POINT PLAN

ELECTRICAL SYMBOLS

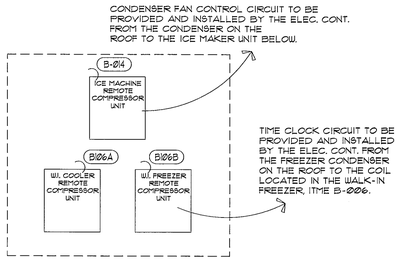
(J)	JUNCTION BOX WITH FINAL
	SINGLE OUTLET
	DUPLEX OUTLET
	VAPOR PROOF LIGHT
	SWITCH
(P)	EMPTY OCTAGONAL REMOTE PULL
(CONV.)	CONVENIENCE OUTLET, MOUNTED @ +48"AFFL

ELECTRICAL NOTES

1. Electrician to make all final connections
2. Electrical conduit shall be at least 6" above finish floor and at least 1/2" off walls
3. Electrician to supply all lamps, wires, switches, and disconnects as per local codes
4. Electrician to make all final connections between fixture mounted components & remote switches
5. All dimensions on this plan are from finish surfaces and extend to centerline of rough-in
6. All coverplates in kitchen and service areas shall be stainless steel, unless otherwise noted
7. All duplex and single convenience outlets above 36" above finish floor to be mounted horizontally
8. Electrician to hang or install decorative lighting supplied by others & supply light bulbs as required
9. Electrician shall verify all phone locations with owner
10. All vertical dimensions are measured from finished floor(NOT FROM RAISED CURBS)

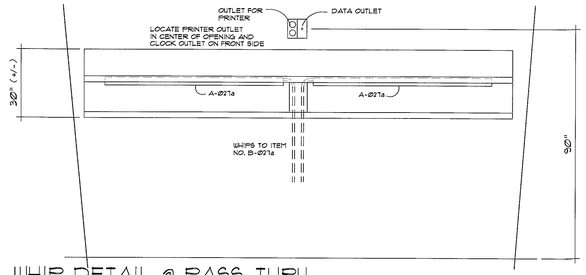


KITCHEN VENTILATION EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)



REMOTE REFRIG. EQUIP.
(VERIFY LOCATION WITH ARCH. DWG'S)

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



WHIP DETAIL @ PASS-THRU.
(VIEW FROM KITCHEN)

REVISION
1
2
3

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-
MIAMI BEACH, FL

SHEET TITLE
EQUIPMENT ELECTRIAL PLAN

JOB NUMBER
-

DRAWN BY
J. Silcock

DATE
09 APRIL 2013

SCALE
1/4"=1'-0"

APPROVED BY

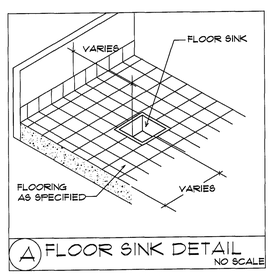
SHEET NUMBER
FS-3

PLUMBING SYMBOLS

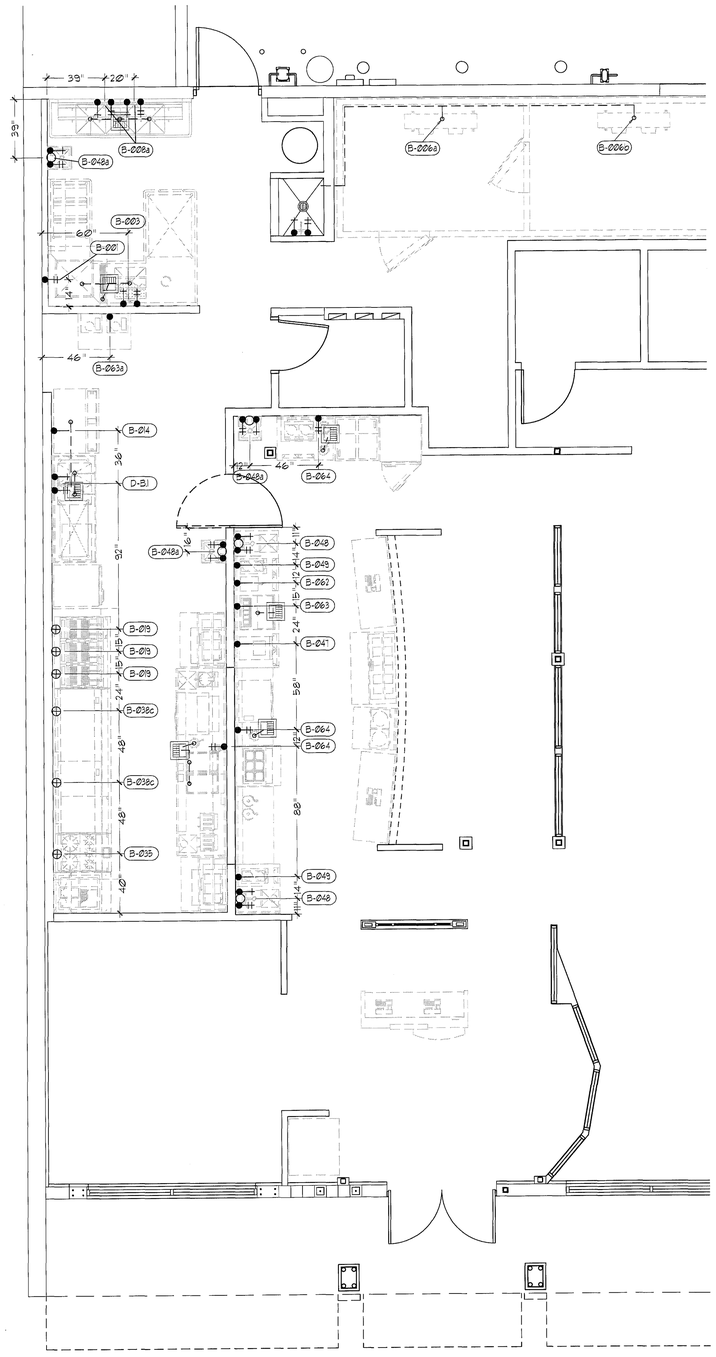
- COLD WATER W/ANGLE-STOP
- HOT WATER W/ANGLE-STOP
- FILTERED WATER W/ANGLE-STOP
- FLOOR SINK W/HALF GRATE
- FUNNEL DRAIN
- INDIRECT WASTE
- WASTE
- GAS

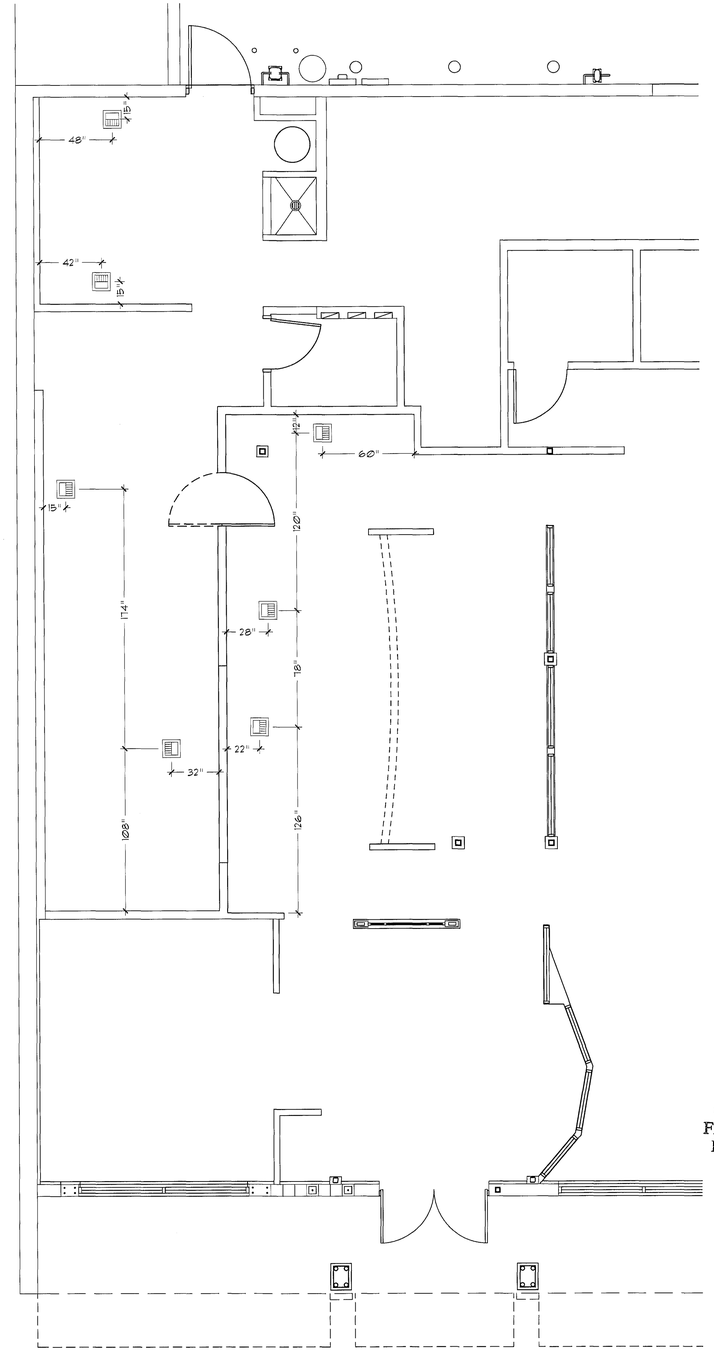
PLUMBING NOTES

1. PLUMBER TO MAKE ALL FINAL CONNECTIONS
2. DRAIN LINES SHALL BE AT LEAST 6" OFF FINISH FLOOR & 1 1/2" FROM WALLS
3. PLUMBER TO PROVIDE ALL SHUT-OFF VALVES AND REGULATORS AS PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS
4. ALL WASTE AND FAUCETS TO BE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR FOR ALL EQUIPMENT SUPPLIED BY HIM, PLUMBER TO SUPPLY ALL OTHERS
5. PLUMBER TO INSTALL AUTOMATIC SHUT-OFF VALVE SUPPLIED BY FIRE CONTROL CONTRACTOR
6. ALL FLOOR SINKS TO BE FINISHED FLUSH W/ FLOOR
7. ALL DIMENSIONS ON THIS PLAN ARE FROM FINISH SURFACE & EXTEND TO CENTERLINE OF ROUGH-IN
8. ALL VERTICAL DIMENSIONS ARE MEASURED FROM FINISHED FLOOR
9. PLUMBING CONTRACTOR TO PROVIDE HARD ACR OR TYPE "L" COPPER DRAIN LINES FOR WALK IN FREEZERS AND REFRIGERATORS. PITCH 4" MIN.



A FLOOR SINK DETAIL
NO SCALE





City of Miami Beach
Fire Prevention Division
PLANS APPROVED

FOOD SERVICE EQUIPMENT FLOOR SINK & PLUMBING CONNECTION POINT PLAN

REVISION

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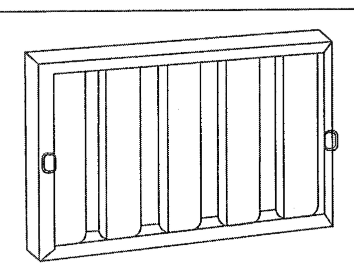
DRAWN BY
J. Silcock

DATE
21 DECEMBER 2012

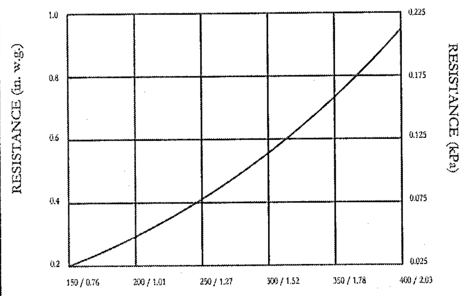
SCALE
¼"=1'-0"

APPROVED BY

SHEET NUMBER
FS-4



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



Filter Detail

RESEARCH PRODUCTS CORPORATION

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X CFM / FPM(*)

DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH

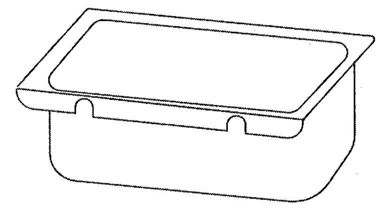
* CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1900 FPM AND A SUPPLY VELOCITY OF 1000 FPM PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

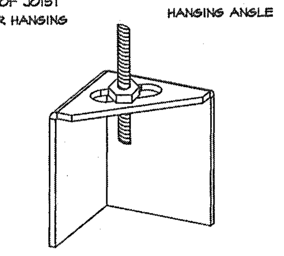
- NFPA #96
- NSF
- B.O.C.A. #93-16
- I.C.B.O. 34416
- SBCCI PST & ESI NO. 93137
- ETL Listed
- LOS ANGELES RR#8080

BUILDING CODES



Grease cup will be supported by 2 studs on the inside wall of the hood. The grease will drain through a concealed grease trough and into this removeable cup.

1/2 Pint Grease Cup Detail



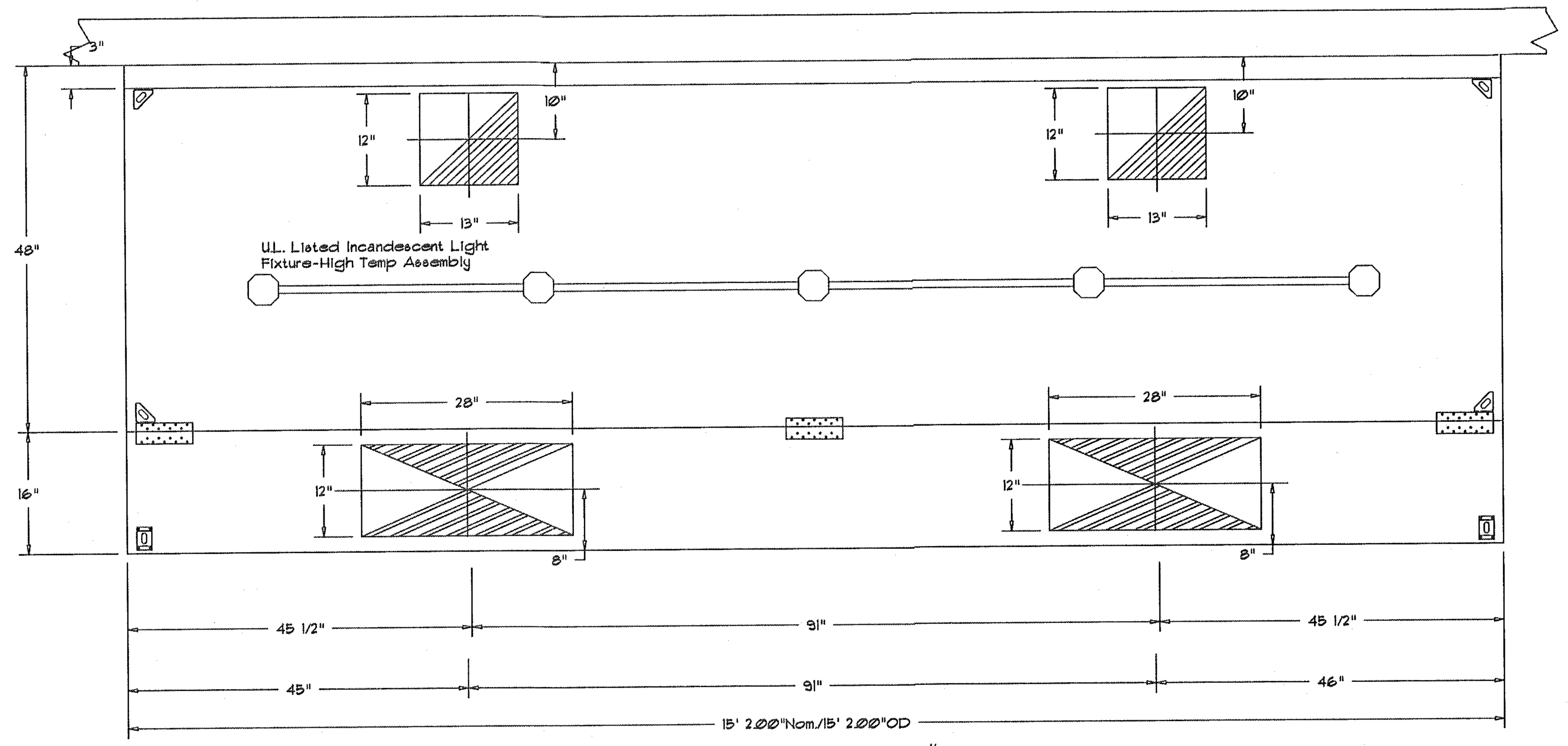
ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

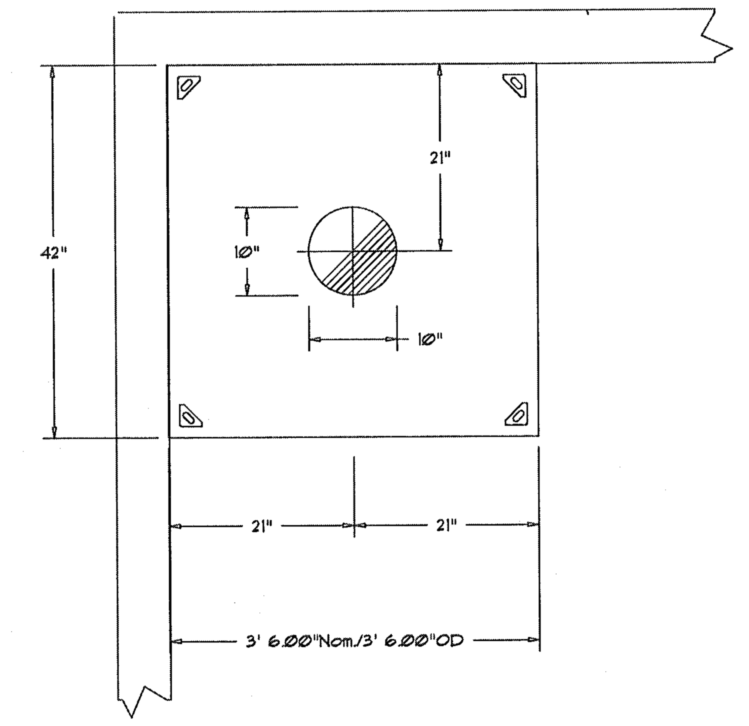
HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	1.75"	11.25"	5.25"
	With MUA		2.75"	2.75"
Back Shelf	Exhaust Only	1.75"	15.0"	5.25"
	With MUA		2.75"	2.75"
Condensate		10.50"	10.50"	

HANGING ANGLE LOCATIONS

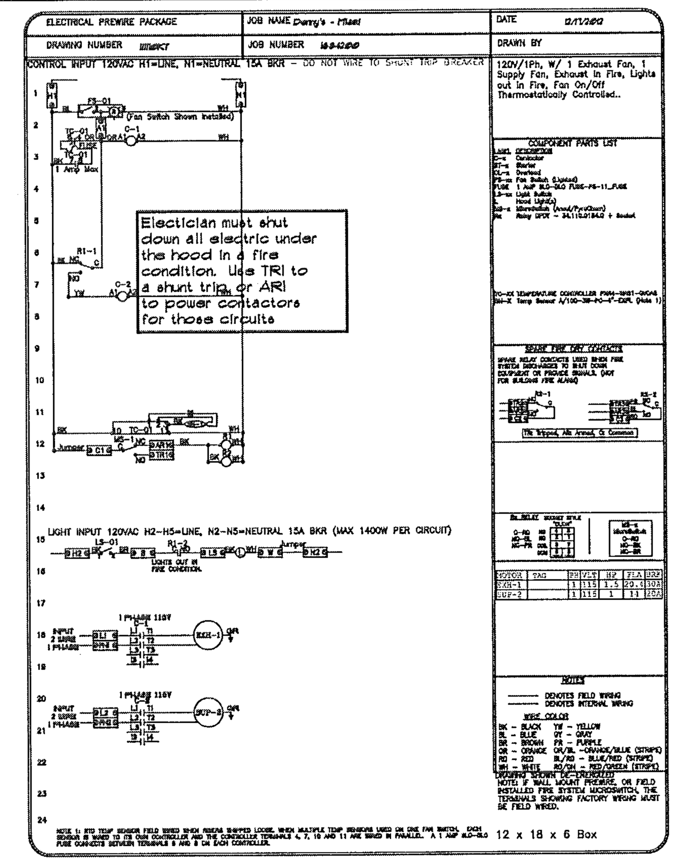


PLAN VIEW – Hood #1
15' 2.00" LONG 4824ND-2-PSP-F
NOTE: Additional hanging angles provided for hoods 12' and longer.

NOTE: MODEL ND IS A ETL LISTED HOOD
ETL LISTING IS 200 CFM/FT (600 DEGREES)
Q=ETL LISTING * 15' 2"=3034 CFM<3413 CFM (DESIGN)
MODEL ND IS ETL LISTED WITH 1 EX RISER UP TO 16'



PLAN VIEW – Hood #3
3' 6.00" LONG 4224VHB-G

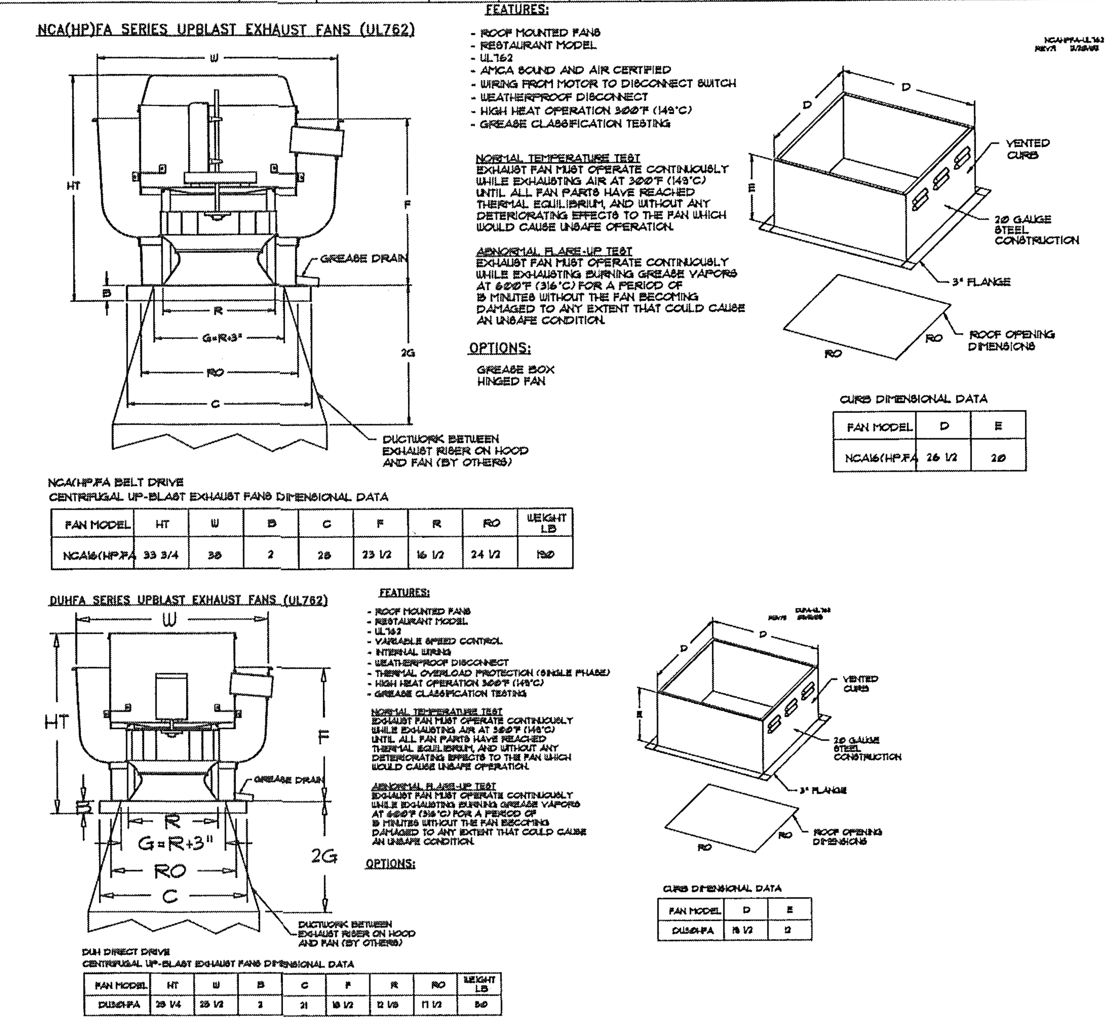


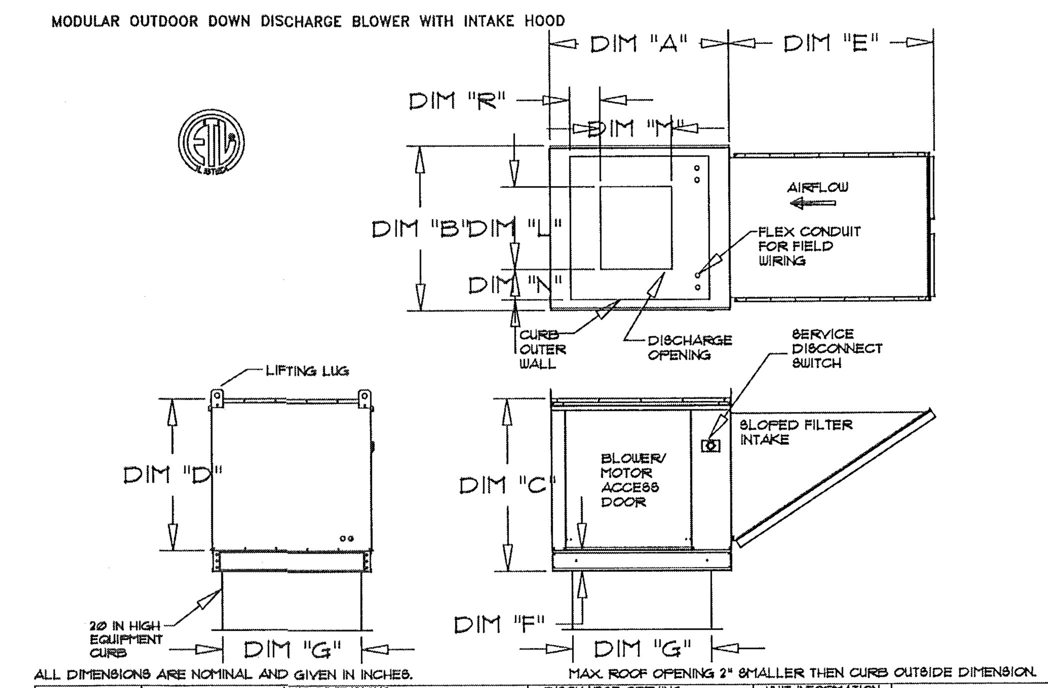
EXHAUST FAN INFORMATION – Job#1684200

FAN UNIT NO.	FAN UNIT MODEL *	MODEL	TAG	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	NCA16FA	NCA16FA		3413	1.300	1217	1.500	1	115	20.4	152.41	17.2
3	DU30HFA	DU30HFA		450	0.500	1131	0.250	1	115	4.0	52.56	6.9

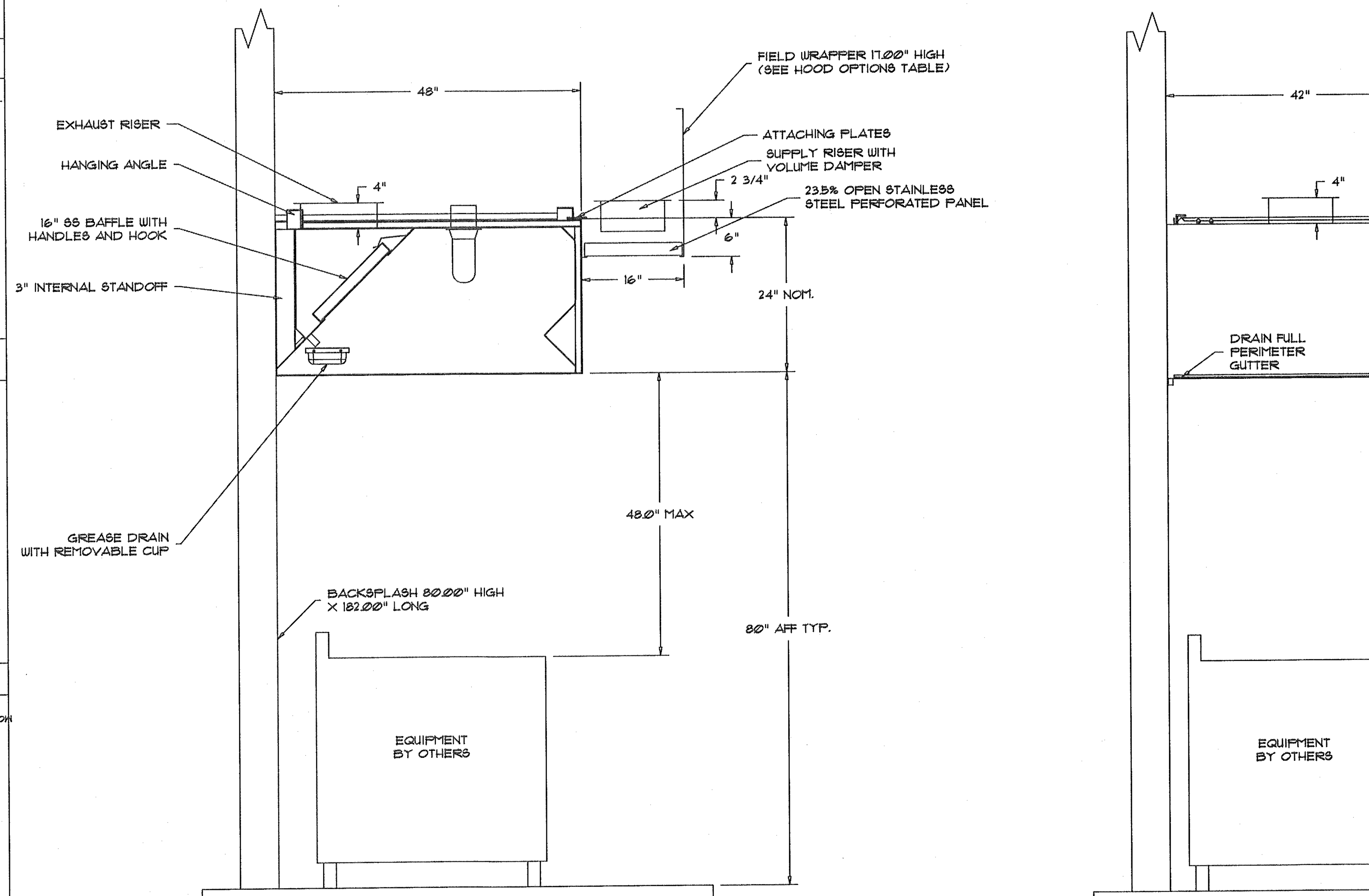
MUA FAN INFORMATION – Job#1684200

FAN UNIT NO.	FAN UNIT MODEL *	BLOWER	HOUSING	TAG	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2	A2-G12	G12	A2		3075	0.500	683	1.000	1	115	14.0	327.43	16.5

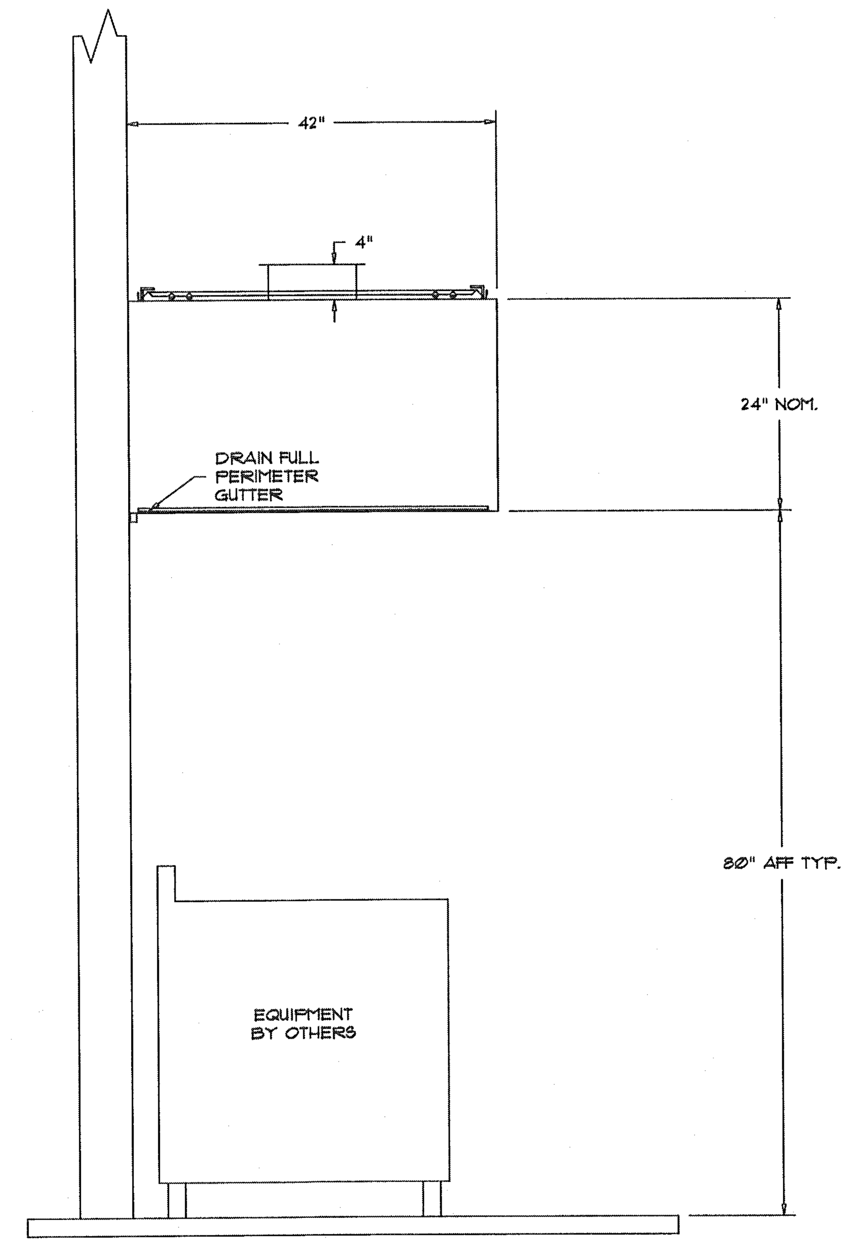




MODEL	WEIGHT	A	B	C	D	E	F	G	L	M	N	R	FILTER SIZE & QTY	MAX. FILTER VELOCITY
		UNIT DIMENSIONS							DISCHARGE OPENING				UNIT INFORMATION	
G12	415 LBS	40-1/8	37-3/8	36-3/4	33-1/16	53-5/8	3-3/4 3-3/4	31	15-3/4	13-9/16	7-5/8	7-15/16	20"x25"x2" (3)	#5000 CFM = 580 FPM



SECTION VIEW – MODEL 4824ND-2-PSP-F
HOOD – #1



SECTION VIEW – MODEL 4224VHB-G
HOOD – #2

HOOD INFORMATION – Job#1684200

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1	4824 ND-2-PSP-F	15' 2.00"	600 Deg.	3413	12"	13"		1706	-0.449"	2730	430 SS Where Exposed	ALONE	ALONE
					12"	13"		1706	-0.449"				
2	4224 VHB-G	3' 6.00"	700 Deg.	450			10"	450	-0.051"	0	304 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	LIGHT(S) QTY.	TYPE	WIRE GUARD	LOCATION	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL *	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1	SS Baffle with Handles	6	16"	20"	5	Incandescent Light Fixt	NO						NO	704 LBS
		4	16"	16"										
2					0								NO	136 LBS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	182"	16"	6"	MUA	12"	28"		1365	0.486"
					MUA	12"	28"		1365	0.486"

These products and others are available for demonstration at the Northern CA display center
--For more information or questions Contact--
Captive Aire Systems
1110 Burnett Ave, Suite G, Concord, CA 94520
Phone: (925)962-1999, Fax (925)566-8565
Email reg92@captiveaire.com

FOOD SERVICE EQUIPMENT HOOD PLAN

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVE-AIRE
www.captiveaire.com
NORTHERN CALIFORNIA OFFICE
1110 Burnett Ave, Suite G, Concord, CA 94520 PHONE: (925) 962-1999 FAX: (925) 566-8565 EMAIL: reg92@captiveaire.com

Denny's - Miami
MIAMI BEACH, FL

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

DATE: 1/22/2012

DWG.#: 1684200

DRAWN BY: DP

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

MASTER DRAWING

SHEET NO. 1

BUCHANAN P.E. CONSULTING INC.
ELECTRICAL * MECHANICAL * PLUMBING
ENGINEERING
6191 W. ATLANTIC BLVD., SUITE #2
MARGATE, FL 33063
Ph: 954-590-3300 Fax: 954-590-2232
Email: Buchanan@mepengineers.com
RAJA BUCHANAN FL-P.E LICENSE # 48916
CERTIFICATE OF AUTHORIZATION # 8842

MAR 20 2013

R E V I S I O N

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SHEET TITLE
EQUIPMENT HOOD PLAN

JOB NUMBER
-

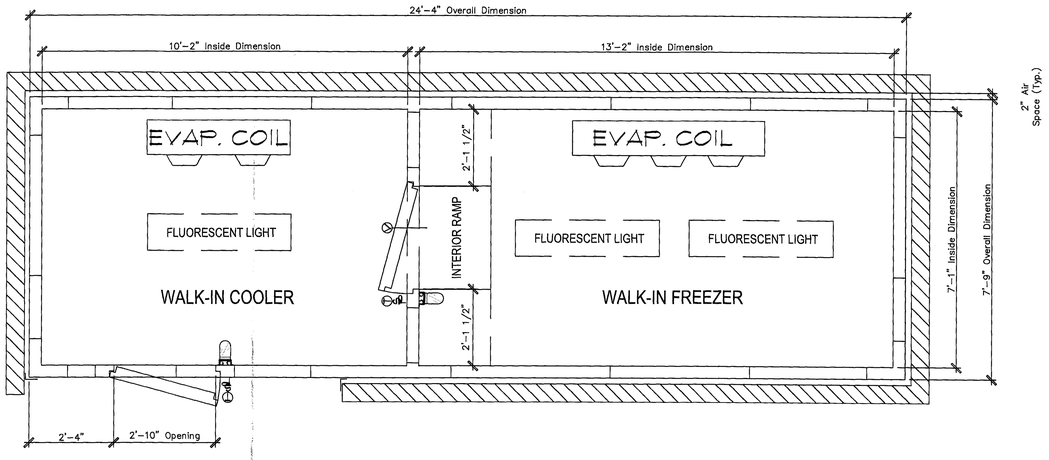
DRAWN BY
J. Silcock

DATE
21 DECEMBER 2012

SCALE
-

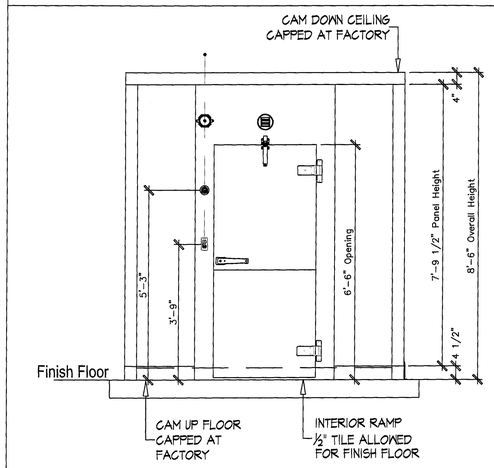
APPROVED BY

SHEET NUMBER
FS-5

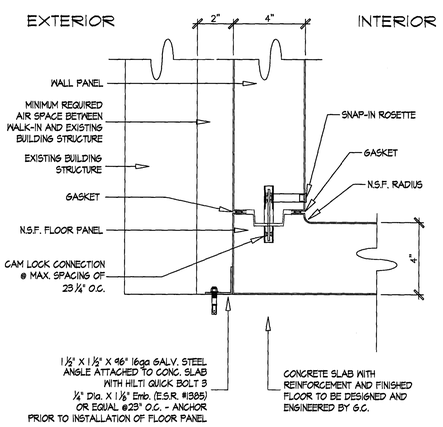


Plan View

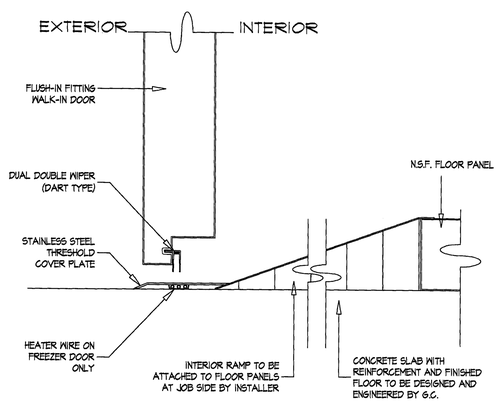
Section View



Elevation



Wall Panel to Pre-Fab Floor Connection at Building Wall



Interior Ramp and Threshold Detail at Cooler Door

WALK-IN SPECIFICATIONS

DESCRIPTION: N.S.F. APPROVED INDOOR WALK-IN COOLER / FREEZER.

INSULATION: FOAMED-IN PLACE U.L. LISTED, CLASS I URETHANE FOAM INSULATION WITH A FLAME SPREAD RATING LESS THAN 25, AND SMOKE DENSITY LESS THAN 450 WHEN TESTED IN ACCORDANCE TO A.S.T.M. E84 (U.L. 723).
FLOOR, WALL AND CEILING PANELS: 4" HIGH DENSITY FRAME

FLOOR: PRE FAB. N.S.F. COVED FLOOR WITH INTERIOR RAMP

FINISH: INTERIOR: 26 ga STUCCO EMBOSSED GALVALUM
EXTERIOR: 26 ga STUCCO EMBOSSED GALVALUM
EXPOSED EXTERIOR: 20 ga STAINLESS STEEL
FLOOR FINISH: .10 SMOOTH ALUMINUM

DOOR(S): (1) 34" x 78" FLUSH-IN FITTING COOLER DOOR.
(1) 34" x 78" FLUSH-IN FITTING FREEZER DOOR.
WITH HEATER CABLE ON FOUR SIDE AND THRESHOLD
WALK-IN DOOR TO BE EQUIPPED WITH:
(1) KASON CAM-RISE REVERSABLE HINGES Model # 1256
(1) KASON SPRING ASSISTED KIT FOR HINGES Model # 1255
(1) KASON CYLINDER LOCKING HANDLE MODEL # 1229C
(1) KASON HYDRAULIC DOOR CLOSER Model # 1094
36" high STAINLESS STEEL KICKPLATE ON EXTERIOR & INTERIOR
DOOR AND DOOR SECTION FINISHES:
INTERIOR 26 ga STUCCO EMBOSSED GALVALUM
EXTERIOR 20 ga STAINLESS STEEL

ACCESSORIES:
(2) KASON VAPOR PROOF LIGHT FIXTURE-BASE SURFACE MOUNTED ON DOOR SECTION (GLOBE, CFL Bulbs SHIPPED LOOSE)
LIGHT (3) KASON FLUORESCENT LIGHT FIXTURE-TO BE SURFACE MOUNTED AND INSTALLED AT JOB SITE ON CEILING PANELS (BASE, GLOBE AND BULBS SHIPPED LOOSE).
(2) Single Pole Toggle EAGLE SWITCH-FLUSH MOUNTED ON EXTERIOR OF WALK-IN(S) WHERE INDICATED ON PLAN VIEW AT 45" ABOVE FINISHED FLOOR, WITH STAINLESS STEEL COVER PLATE WITH 125v RED NEON PILOT LIGHT
(2) 2" Dia. DIAL THERMOMETER - FLUSH MOUNTED ON EXTERIOR OF WALK-IN(S) WHERE INDICATED ON PLAN VIEW AT 63" ABOVE FINISHED FLOOR LINE.
(1) KASON MODEL #1830 AIRVENT - FLUSH MOUNTED ON TOP PORTION OF FREEZER DOOR SECTION

ADDITIONAL-
ACCESSORIES: 1. 3/4"x3/4"x96" 16ga. GALV. STEEL SILL (SHIPPED LOOSE)
2. WALL CLOSURES TO MATCH (SHIPPED LOOSE).

GEN. NOTES: 1. CEILING PANELS TO BE CAPPED IN FACTORY.
2. ALL ELECTRICAL AND PLUMBING WORK BY OTHERS
3. DOOR(S) SIZE WITH 1/2" TILE ALLOWED FOR FINISHED FLOOR LINE.

REFRIGERATION:
COOLER: (1) 1.5 HP Med Temp Unit 208-230/60/3ph./7.5A
(1) Evaporator Coil 115/60/1ph./3.6A (35*F)

FREEZER: (1) 3 HP Low Temp Unit 208-230/60/3ph./11.1A
(1) Evaporator Coil 230/60/1ph./13.0A (-10*F) Holding Temp
OUTDOOR Pre-assembled Remote System w/EC Motors

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

FOOD SERVICE EQUIPMENT WALK-IN COOLER / FREEZER PLAN

REVISION

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FOOD SERVICE EQUIPMENT & FURNISHING DEALER
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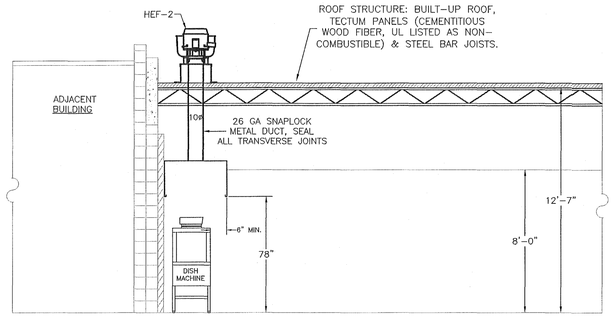
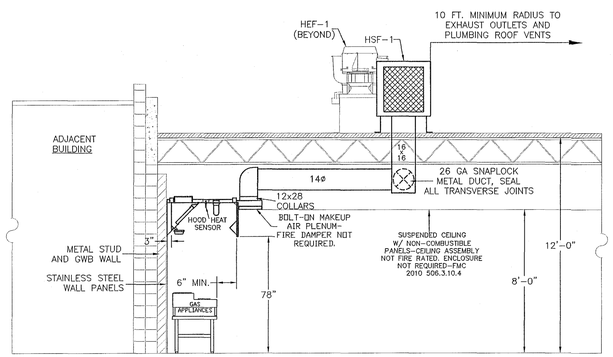
BURLEY, ID 83318
PHONE- 208-677-3285
FAX- 208-677-9980
E-MAIL- justin@a1req.com

PROJECT: DENNY'S RESTAURANT - MIAMI BEACH, FL

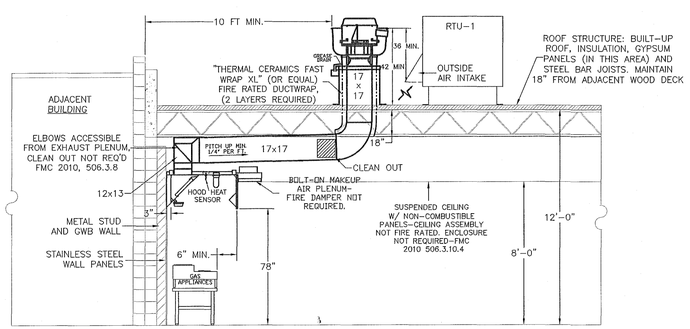
SHEET TITLE: WALK-IN PLAN
JOB NUMBER: -
DRAWN BY: J. Silcock
DATE: 21 DECEMBER 2012
SCALE: -
APPROVED BY:
SHEET NUMBER: FS-6



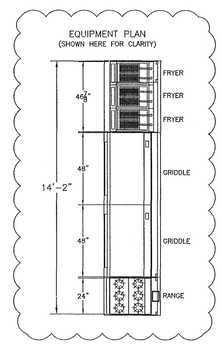
HOOD SECTION
DISH MACHINE
1/4" = 1'-0"

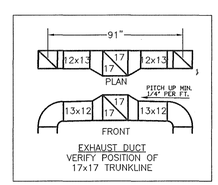


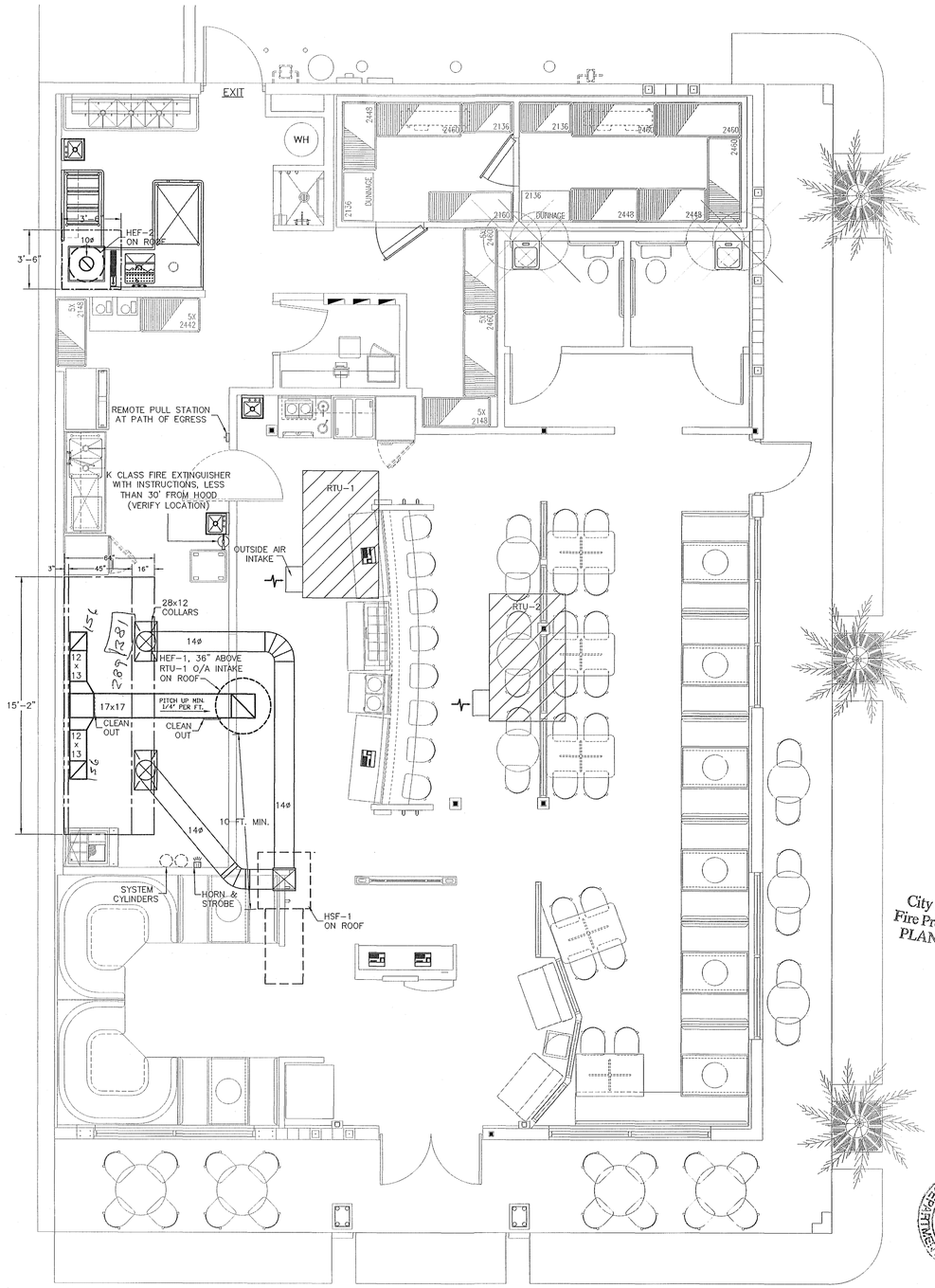
HOOD SECTION
MAKE-UP AIR
1/4" = 1'-0"



HOOD SECTION
EXHAUST AIR
1/4" = 1'-0"







FLOOR PLAN
KITCHEN HOOD
1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

05/17/13

MIAMI BEACH FIRE DEPARTMENT

BUCHANAN P.E. CONSULTING, INC.
8191 W. ATLANTIC BLVD, SUITE #2
MARGATE, FL 33063
Tel: (954) 590-3300 Fax: (954) 590-2232
email: mepengineers@aol.com

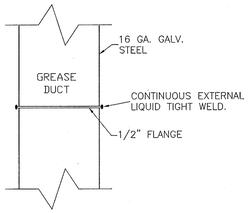
MAR 20 2013
RAJA BUCHANAN
FL-P.E # 48816

DENNY'S RESTAURANT
7140 COLLINS AVENUE
MIAMI BEACH, FL.

Date: 2/27/2013
Drawn: FP
Reviewed: RAB
Job #:

Revisions:

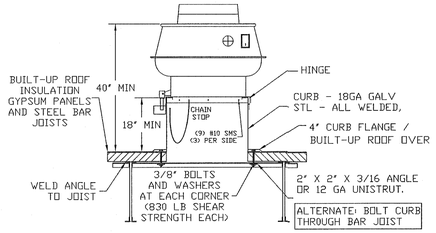
Drawing No.
MECHANICAL
HOOD-1



DUCT JOINT DETAIL

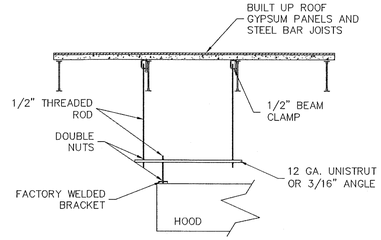
NFPA 96-08, 7.5.5.1 (c)

N T S



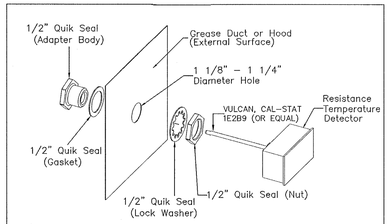
CURB AND FAN MOUNTING DETAIL EXHAUST AND MAKE UP FAN TYPICAL

N T S



HOOD HANGING DETAIL

N T S



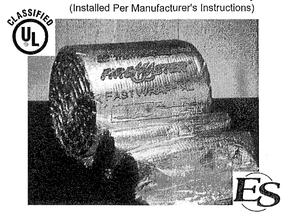
HOOD HEAT SENSOR INSTALLATION

Thermal Ceramics

FIREMASTER (OR EQUAL)
Fire Protection Products

(2 LAYERS REQUIRED) **FastWrap® XL**
Commercial Kitchen Grease Duct Enclosure System
Air Ventilation Duct Enclosure System
(Installed Per Manufacturer's Instructions)

CLASSIFIED UL



GENERAL NOTES:

1) SUPPLY AND EXHAUST FANS ARE INTERCONNECTED WITH A PILOT LIGHT IN THE KITCHEN AREA.

2) FIRE MODE REQUIRES THAT THE EXHAUST FAN CONTINUES TO OPERATE AND THE SUPPLY FAN STOPS AND ACTIVATES THE BUILDING FIRE ALARM SYSTEM.

3) HOOD EXHAUST FAN SHALL OPERATE WHENEVER THE EXTINGUISHING SYSTEM IS ACTIVATED.

4) FIXED PIPE EXTINGUISHING SYSTEMS IN A SINGLE HAZARD AREA SHALL BE ARRANGED FOR SIMULTANEOUS AUTOMATIC OPERATION UPON ACTIVATION OF ANY ONE OF THE SYSTEMS. COMMON EXHAUST DUCT FOR MORE THAN ONE HOOD WOULD DEFINE A SINGLE AREA. EXCEPTION WOULD BE A SECONDARY FIRE SUPPRESSION SYSTEM CONTAINED IN THE COMMON DUCT.

5) FIRE SYSTEM SHALL BE CONNECTED TO THE BUILDING FIRE ALARM, IF ONE EXISTS.

6) FIRE SYSTEM PERMIT AND INSTALLATION BY OTHERS.

7) EXHAUST FAN MOTOR REQUIRES EXTERNAL OVERLOAD PROTECTION OR THE MOTOR WARRANTY IS VOID.

8) EXHAUST AND MAKE-UP AIR FANS SHALL BE PROVIDED WITH EXTERNAL DISCONNECT SWITCHES.

9) EXHAUST DUCTS SHALL BE 16 GAUGE GALVANIZED STEEL, ALL WELDED, AIR VELOCITY 1500 TO 2500 FPM, CLEAN OUTS AT 20 FOOT INTERVALS ON HORIZONTAL DUCTS, EXHAUST DUCT ELBOWS SHALL BE RADIUSED.

10) MAKE-UP AIR DUCT SHALL BE GALVANIZED STEEL, 24 GAUGE PITTSBURGH LOCK OR 26 GAUGE SNAPLOCK, AIR VELOCITY 1200 TO 1800 FPM.

11) GREASE EXHAUST FAN SHALL BE PROVIDED WITH A HINGING KIT, CHAIN STOP AND GREASE COLLECTION TROUGH.

12) FAN CURBS SHALL BE 18 GAUGE GALVANIZED STEEL, ALL WELDED. GREASE FAN EXHAUST CURBS SHALL BE A MINIMUM OF 18" HIGH.

13) MAKE-UP AIR FAN INTAKE SHALL BE A MINIMUM OF 10 FEET FROM SOURCES OF CONTAMINATED AIR, EXHAUST FANS, PLUMBING VENT STACKS, ETC.

14) EXHAUST FAN TERMINATIONS SHALL HAVE A 10 FOOT MINIMUM CLEARANCE FROM THE OUTLET TO ADJACENT BUILDINGS, PROPERTY LINES, GRADE LEVEL, COMBUSTIBLE CONSTRUCTION, OPERABLE DOORS AND WINDOWS, ELECTRICAL EQUIPMENT AND LINES AND ALL SUPPLY AIR INLETS.

15) ROOFTOP FANS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF THE BUILDING OR A 42" HIGH GUARD SHALL BE INSTALLED.

16) PRIOR TO THE FINAL INSPECTION, THE RESTAURANT OWNER SHALL HAVE A PERFORMANCE TEST DONE SHOWING THE RATE OF AIR FLOW OF THE HOOD SYSTEM(S).

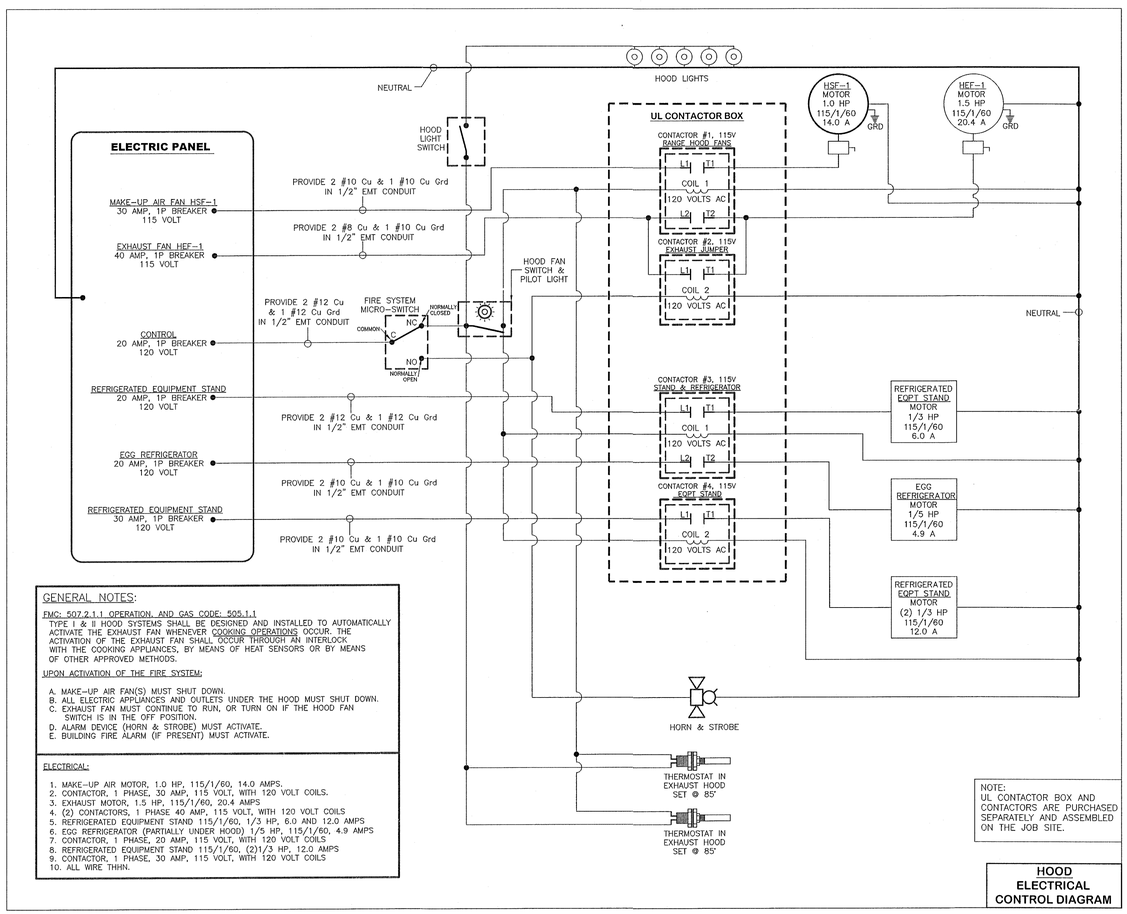
17) TYPE I AND II HOOD SYSTEMS SHALL BE DESIGNED AND INSTALLED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATIONS OCCUR, BY HEAT SENSORS OR OTHER APPROVED METHODS. FLORIDA MECHANICAL CODE: 507.2.1.1 & FUEL GAS CODE 505.1.1

18) A CAPTURE AND CONTAINMENT TEST SHALL BE PERFORMED BY THE PERMIT HOLDER. HOOD MAKEUP AIR, EXHAUST AIR, AND ALL AIR CONDITIONING FOR THE SPACE SHALL BE IN OPERATION. THE TEST SHALL BE VERIFIED VISUALLY BY OBSERVING SMOKE OR STEAM.

19) THESE MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, FABRICATION OR INSTALLATION OF THE EQUIPMENT.

20) MIAMI-DADE MECHANICAL CODE COMPLIANCE NO LONGER REQUIRES WIND LOAD CALCULATIONS FOR ROOFTOP HOOD FANS, HURRICANE STRAPPING ON THE FANS OR A NOTICE OF ACCEPTANCE FOR THE FANS.
THE DRAWING ONLY NEEDS TO SHOW AN ACCEPTABLE FASTENING METHOD FOR THE FANS TO WITHSTAND 170 MPH HURRICANE FORCE WINDS.

INSTALLATION SHALL COMPLY WITH THE FLORIDA MECHANICAL CODE-2010 AND THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 96-2008.



GENERAL NOTES:

FMC: 507.2.1.1 OPERATION. AND GAS CODE: 505.1.1
TYPE I & II HOOD SYSTEMS SHALL BE DESIGNED AND INSTALLED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATIONS OCCUR. THE ACTIVATION OF THE EXHAUST FAN SHALL OCCUR THROUGH AN INTERLOCK WITH THE COOKING APPLIANCES, BY MEANS OF HEAT SENSORS OR BY MEANS OF OTHER APPROVED METHODS.

UPON ACTIVATION OF THE FIRE SYSTEM:

A. MAKE-UP AIR FAN(S) MUST SHUT DOWN.
B. ALL ELECTRIC APPLIANCES AND OUTLETS UNDER THE HOOD MUST SHUT DOWN.
C. EXHAUST FAN MUST CONTINUE TO RUN, OR TURN ON IF THE HOOD FAN SWITCH IS IN THE OFF POSITION.
D. ALARM DEVICE (HORN & STROBE) MUST ACTIVATE.
E. BUILDING FIRE ALARM (IF PRESENT) MUST ACTIVATE.

ELECTRICAL:

1. MAKE-UP AIR MOTOR, 1.0 HP, 115/1/60, 14.0 AMPS.
2. CONTACTOR, 1 PHASE, 30 AMP, 115 VOLT, WITH 120 VOLT COILS.
3. EXHAUST MOTOR, 1.5 HP, 115/1/60, 20.4 AMPS
4. (2) CONTACTORS, 1 PHASE 40 AMP, 115 VOLT, WITH 120 VOLT COILS
5. REFRIGERATED EQUIPMENT STAND 115/1/60, 1/3 HP, 6.0 AND 12.0 AMPS
6. EGG REFRIGERATOR (PARTIALLY UNDER HOOD) 1/5 HP, 115/1/60, 4.9 AMPS
7. CONTACTOR, 1 PHASE, 20 AMP, 115 VOLT, WITH 120 VOLT COILS
8. REFRIGERATED EQUIPMENT STAND 115/1/60, (2)1/3 HP, 12.0 AMPS
9. CONTACTOR, 1 PHASE, 30 AMP, 115 VOLT, WITH 120 VOLT COILS
10. ALL WIRE THHN.

NOTE:
UL CONTACTOR BOX AND CONTACTORS ARE PURCHASED SEPARATELY AND ASSEMBLED ON THE JOB SITE.

HOOD ELECTRICAL CONTROL DIAGRAM

AIR BALANCE SCHEDULE

KITCHEN AREA:	EXHAUST	SUPPLY	BALANCE
HEF-1	-3413		-3413
HEF-2	-450		-3863
HSF-1		+3075	-788
RTU-1		+570	
NET KITCHEN			* -218
TOTAL SPACE:			
RTU-2		+570	+352
EF-1 (BATHROOM)	-50		+302
TOTAL SPACE			+302

* SLIGHT NEGATIVE PRESSURE TO RETAIN SMOKE AND ODORS. NEGATIVE PRESSURE SHALL NOT EXCEED 0.02" W.C.

SEE SHEET M-1 FOR VENTILATION CALCULATIONS PER VENTILATION TABLE 403.3

HVAC DESIGN: (FOR HOOD SYSTEM)	YES	NO
Duct Smoke Detector		✓
Fire Damper(s)		✓
Smoke Damper(s)		✓
Fire Rated Enclosure		✓
Fire Rated Roof/Floor Ceiling Assembly		✓
Fire Stopping		✓
Smoke Control		✓

EXHAUST DUCT AIR VELOCITY CALCULATION:

EXHAUST DUCT: 17x17 = 2.0 SQ. FT., FACE AREA.
3413 CFM / 2.0 = 1707 FPM

FLORIDA MECHANICAL CODE 2010 506.3.4 "AIR VELOCITY" 1500 TO 2500 FPM.

05/17/13

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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MARGATE, FL 33063
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email: mepengineers@aol.com

STATE OF FLORIDA
MAR 20 2013
RAJA BUCHANAN
FL P.E. # 48916

DENNY'S RESTAURANT
7140 COLLINS AVENUE
MIAMI BEACH, FL.

Date: 2/27/2013
Drawn: FP
Reviewed: RAB
Job #:

Revisions:

Drawing No.
MECHANICAL
HOOD-2

ANSUL. R-102 RESTAURANT FIRE SUPPRESSION SYSTEM (Standard UL 300 Listed)

TANK AND CARTRIDGE REQUIREMENTS

Once the hazard analysis is completed and the total nozzle flow numbers are established, the quantity and size of agent tanks and cartridges needed to supply the nozzles with the proper volumes of agent at the proper flow rates can be determined. For cartridges used in the regulated release mechanism, flow capacities, tank quantities and sizes, and regulated release cartridge options are given in the table below:

Total Flow Numbers*	Quantity and Size of Tank(s)	Regulated Release Cartridge Options: Nitrogen	Regulated Release Cartridge Options: Carbon Dioxide
1 – 5	(1) 1.5 Gallon	LT-20-R	101-10
6 – 11	(1) 3.0 Gallon	LT-30-R	101-20
11 – 16	(1) 1.5 Gallon (1) 3.0 Gallon	Double	101-30
16 – 22	(2) 3.0 Gallon	Double	101-30**

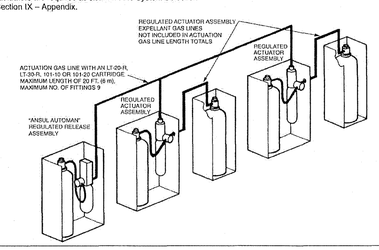
When one or more regulated actuators are used, the following tank and cartridge combinations apply for each regulated actuator:

Regulated Actuator Tank(s)	Regulated Actuator Cartridge
(1) 1.5 Gallon	LT-20-R or 101-10
(1) 3.0 Gallon	LT-30-R or 101-20
(1) 1.5 Gallon and (1) 3.0 Gallon	LT-A-101-30 or 101-30** or double tank
(2) 3.0 Gallon	LT-A-101-30 or 101-30** or double tank

* For exceptions to maximum flow numbers, see Distribution Piping Requirements for 1.5 gallon and 3.0 gallon systems in this Section.

** The 101-30 cartridge can not be used when (2) two 3.0 gallon tanks are manifolded together.)

For higher total flow numbers (23 to 110), multiple cartridges and regulated actuators are required as shown in the System Selection Guide in Section IX – Appendix.



ACTUATION AND EXPELLANT GAS LINE REQUIREMENTS

This section contains the guidelines for installing the actuation and expellant gas lines between the regulated release mechanism regulator, each regulated actuator regulator, and each agent tank. These limitations should be considered when selecting the component mounting locations.

Actuation Gas Line – 6 to 8* Tanks Maximum

* 8 Tank maximum reflects the utilization of 3 tank regulated actuators.

1. Use only 1/4 in. Schedule 40 black iron, hot-dipped galvanized, chrome-plated, or stainless steel pipe and fittings.
2. The actuation gas line piping is installed from the regulated release mechanism to each regulated actuator connected within the system. The total length of the actuation gas line from the regulated release assembly to the regulated actuator assembly(ies) **must not exceed** 20 ft. (6 m) when using an LT-20-R, an LT-30-R nitrogen cartridge, or a 101-10 or a 101-20 carbon dioxide cartridge. See Figure B1.

Distribution Piping Requirements – 3.0 Gallon System #1

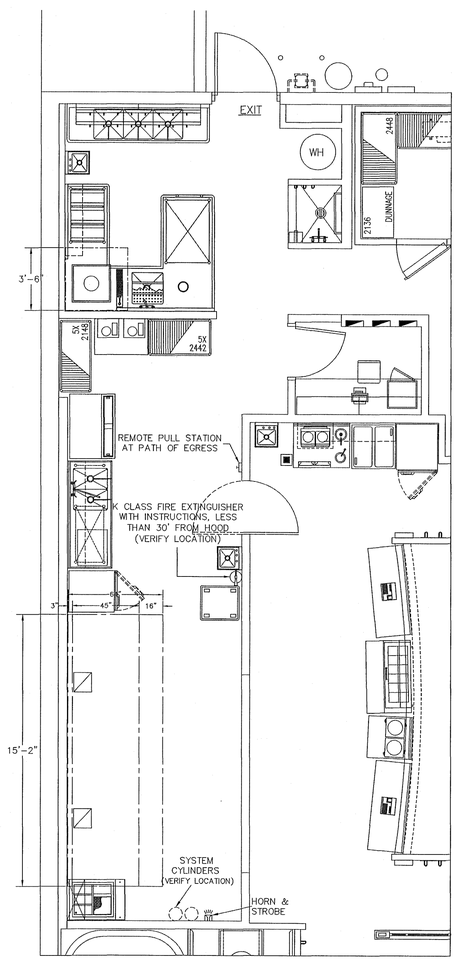
Requirements	Supply Line	Duct Branch Line	Plenum Branch Line	Appliance Branch Line
Pipe Size	3/8 in.	3/8 in.	3/8 in.	3/8 in.
Maximum Length	40 ft. (12.2 m)	8 ft. (2.4 m)	4 ft. (1.2 m)	12 ft. (3.7 m)
Maximum Rise	6 ft. (1.8 m)	4 ft. (1.2 m)	2 ft. (.6 m)	2 ft. (.6 m)
Maximum 90° Elbows	9	4	4	6
Maximum Tees	1	2	2	4
Maximum Flow Numbers	11*	4	2	4
Total Pipe Used	21.75 ft.	2.5 ft.	3 ft.	8.5 ft.

Distribution Piping Requirements – 1.5 Gallon System #2

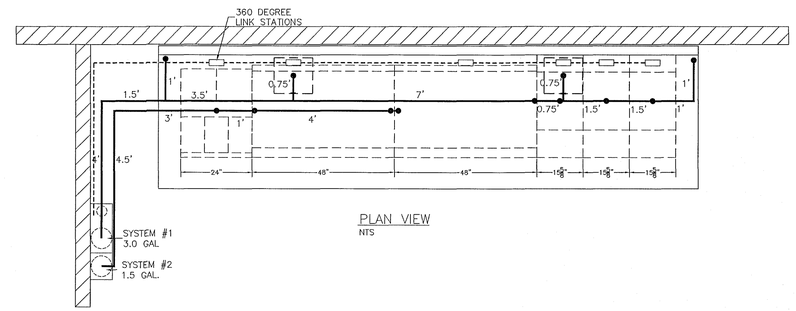
Requirements	Supply	Duct Branch Line	Plenum Branch Line	Appliance Branch Line
Pipe Size	3/8 in.	3/8 in.	3/8 in.	3/8 in.
Maximum Length	40 ft. (12.2 m)	6 ft. (1.8 m)	4 ft. (1.2 m)	10 ft. (3 m)
Maximum Rise	6 ft. (1.8 m)	4 ft. (1.2 m)	2 ft. (.6 m)	2 ft. (.6 m)
Maximum 90° Elbow	9	4	4	6
Maximum Tees	1	1	2	3
Maximum Flow Numbers	5*	2	2	3
Total Pipe Used	13.5 ft.	– 0 –	– 0 –	9.5 ft.

ANSUL R-102
NOZZLE APPLICATION CHART

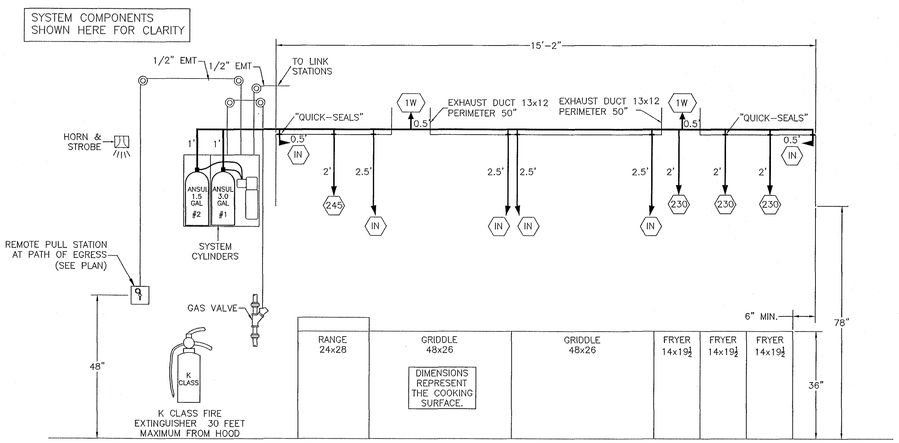
Hazard	Maximum Hazard Dimension	Minimum Nozzle Quantity	Nozzle Heights	Nozzle Part No.	Nozzle Tip Stamping–Flow No.	Number of Nozzles	Number of Flow Points
Duct or Transition (Single Nozzle)	Length – Unlimited Perimeter – 50 in. Diameter – 16 in.	1	–	430912	1W	2	2
Duct or Transition (Single Nozzle)	Length – Unlimited Perimeter – 100 in. Diameter – 31–7/8 in.	1	–	419337	2W		
Plenum (Horizontal Protection)	Length – 10 ft.	1	–	419335	1N	2	2
Fryer (Split or non–split vat)	Maximum Size (without drip board) 15 in. x 14 in. High Proximity Medium proximity	1 1	27 – 47 in. 20 – 27 in.	419339 419340	230 245		
Fryer (Non–Split Vat Only)	Maximum Size (with drip board) 21 in. x 14 in. High Proximity Fry pot must not exceed 15 in. x 14 in.	1	27 – 47 in.	419339	230	3	6
Range	Longest Side 28 in. Area – 336 sq. in.	1	40 – 48 in. W/ Backshelf	419333	1F		
Range	Longest Side (High Proximity) 32 in. Area – 768 sq. in.	1	40 – 50 in.	419340	245	1	2
Range	Longest Side (Medium Proximity) 28 in. Area – 672 sq. in.	1	30 – 40 in.	419341	260		
Griddle	Longest Side (High Proximity) 30" Area – 720 sq. in.	1	30 – 50 in.	419342	290		
Griddle	Longest Side (High Proximity) 36" Area – 1080 sq. in.	1	35 – 40 in.	419335	1N	4	4
Gas–Radiant Char–Broiler	Longest Side – 36 in. Area – 864 sq. in.	1	15 – 40 in.	419335/417332	1N/1NSS		
Salamander Broiler	Length – 32.5 in. Width – 30 in.	2	–	419334	1/2N		
					TOTAL FLOW POINTS USED		16
					MAXIMUM FLOW POINTS ALLOWED		16



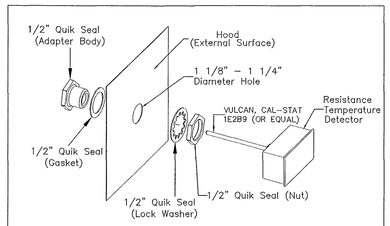
PARTIAL FLOOR PLAN
KITCHEN HOOD
1/4" = 1'–0"



PLAN VIEW
NTS



FRONT VIEW



HOOD HEAT SENSOR INSTALLATION

GENERAL NOTES:

1. Systems comply with UL 300.
2. Systems comply with NFPA 17, 17A and 96
3. All pipe run in ⅜" black iron.
4. All changes in direction of conduit shall be be made with corner pulleys
5. Upon activation of the fire system:
   A. Make–up air fan(s) must shut down.
   B. All electric appliances and outlets under the hood must shut down.
   C. Exhaust fan must continue to run, or turn on if control switch is in the off position.
   D. Alarm device (horn & strobe) must activate.
   E. The building does not have a fire alarm.
   F. Gas supply must shut off.

1

SYSTEM COMPLIANCE NOTES
NFPA 17A 2009 EDITION

4.5.2 —— All piping and fittings are black iron.
5.1.5 —— If applicable, two or more hazards protected by same system or simultaneously operated systems.
5.2.1.6 —— Manual actuator provided.
5.2.1.7 —— All operating devices protected.
5.2.1.8 —— Audible and/or visual indicator provided.
5.2.1.10 —— Manual pull located at path of egress.
5.4.5 —— Tanks accessible for service.
5.6.1.7 —— All penetrations sealed by UL listed device.
6.1.1.(2) —— Installation conforms to NFPA 17A–2009.
6.1.1.(3) —— All equipment listed by manufacturer.
6.1.1.(4) —— Auxiliary devices acceptable to AHJ and manufacturer.
6.1.1.(5) —— Balloon test per manufacturer.
6.1.1.(6) —— Hazard protected (see plan).
6.3.1 —— Plans suitably dimensioned.
6.3.2 —— Plans detailed (see plan).
6.3.3 —— See piping allowances.
6.3.4 —— See floor plan.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED
05/17/13

BUCHANAN P.E., CONSULTING, INC.
6191 W. ATLANTIC BLVD, SUITE #2
MARGATE, FL 33063
Tel: (954) 590-2300 Fax: (954) 590-2232
e-mail: mepengineers@aol.com

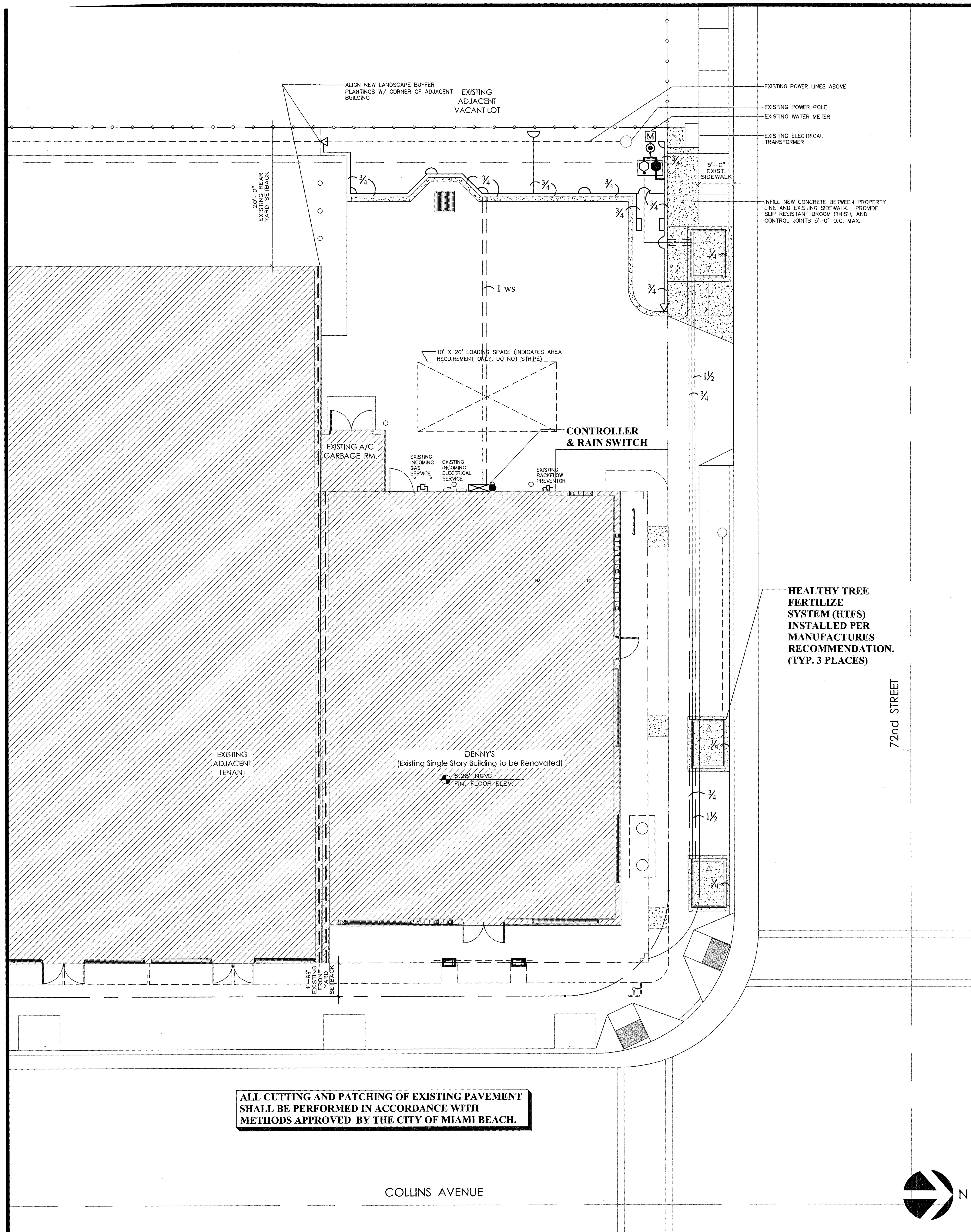
STATE OF FLORIDA
RAJA BUCHANAN
FL P.E. #-40016
APR 12 2013

DENNY'S RESTAURANT
7140 COLLINS AVENUE
MIAMI BEACH, FL.

Date: 2/27/2013
Drawn: FP
Reviewed: RAB
Job #:

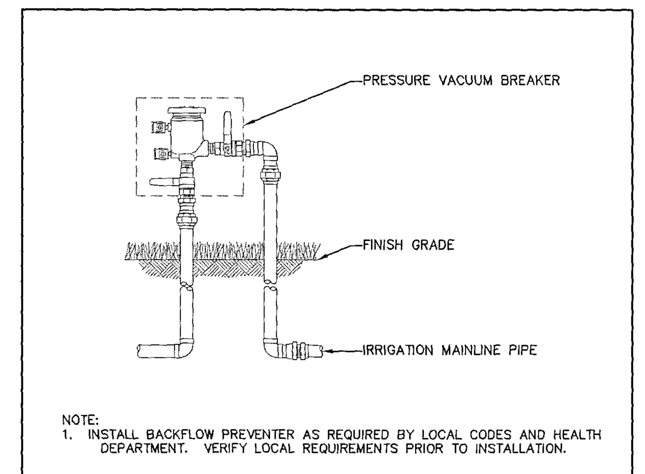
Revisions:
1 4/5/2013 Fire review comment

Drawing No.
MECHANICAL
HOOD–4

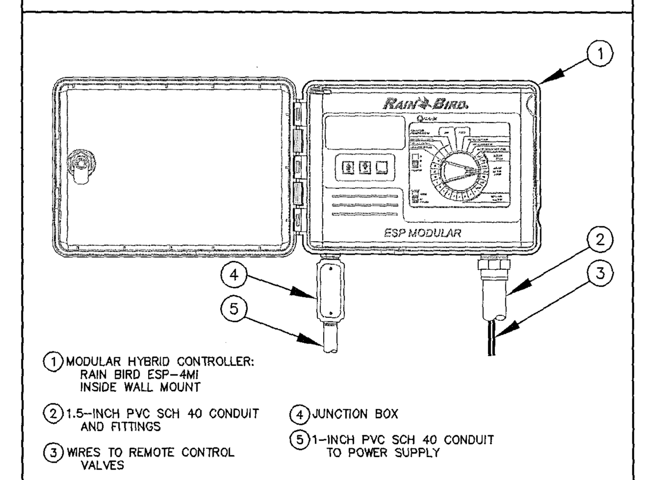


Irrigation Plan

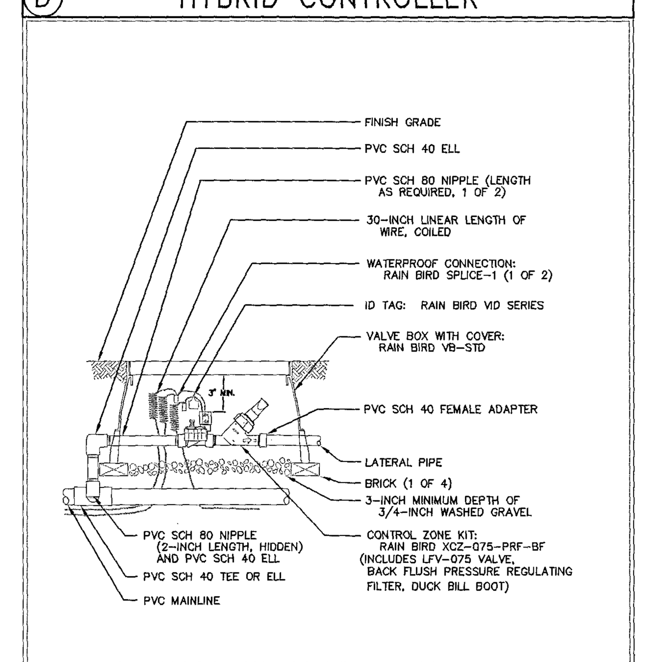
SCALE: 1/8" = 1'-0" | 01



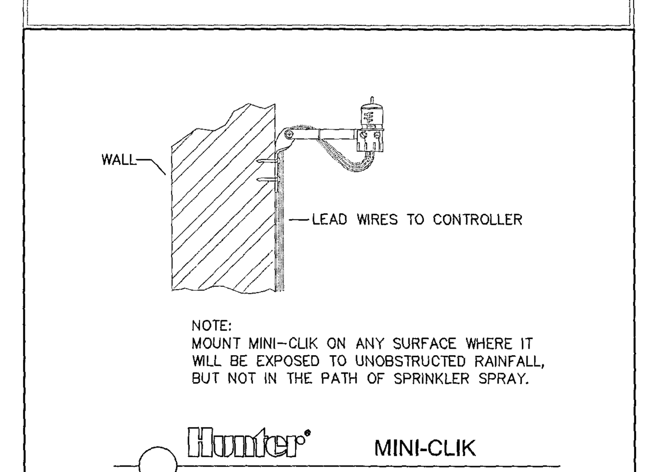
PRESSURE VACUUM BREAKER



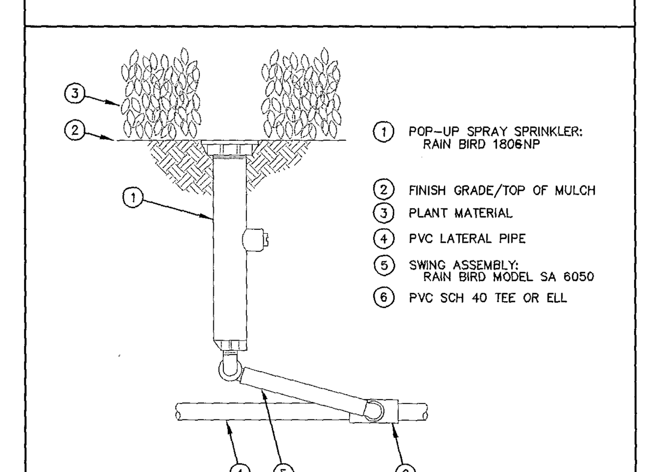
(D) HYBRID CONTROLLER



(D) 3/4" CONTROL ZONE KIT WITH PRESSURE REGULATING BACKFLUSH FILTER
N.T.S. XCZ-075-PRF-BF



MINI-CLIK



POP-UP SPRAY SPRINKLER

GENERAL IRRIGATION NOTES

1. This design is diagrammatic. All piping, valves, etc., shown within paved areas or outside property lines is for design clarification only and shall be installed in landscaped areas within the property boundaries where possible. No irrigation equipment may be installed outside property lines unless otherwise directed.

2. This system has been designed to conform with the requirements of the applicable codes. Should any conflict exist, the requirements of the codes shall prevail.

3. All sprinkler equipment not otherwise detailed or specified shall be installed as per the manufacturer's recommendations and specifications.

4. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of the larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.

5. It is the responsibility of the Irrigation Contractor to familiarize himself with all grade differences, location of walls, retaining walls, structures and utilities. The Irrigation Contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves and laterals through walls, under roadways and paving, etc. The Irrigation Contractor shall also familiarize himself with the landscape plan and coordinate the installation with the Landscape Contractor.

6. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the Irrigation Contractor shall assume full responsibility for any changes necessary.

7. The Irrigation Contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with no overspray on to walks, streets, walls, etc. To eliminate overspray, low angle and variable arc nozzles may be substituted for standard spray nozzles.

8. All pipe and wire installed beneath paving shall be sleeved in Schedule 40 PVC pipe.

9. All threaded PVC joints shall be made using Schedule 80 PVC nipple stubs and solvent weld couplings. No threaded adapters will be allowed. All other PVC joints shall be of the same type as the specified pipe, i.e., 'O' ring or solvent weld.

10. All above ground piping shall be schedule 40PVC, unless other wise specified.

11. All sprinkler heads with flow rates of 7 GPM or less shall be mounted on flex type swing joints. Flex type pipe shall be used for swing joints only and not lateral lines. All sprinkler heads with flow rates greater than 7 GPM shall be mounted on PVC swing joints of the same size as the sprinkler head inlet.

12. Unless otherwise specified shrub type heads may be substituted for 4" (or less) pop-up heads as landscaping dictates. Riser extenders may be used on pop-up heads. All shrub risers shall be Schedule 40 PVC and painted flat or satin black. Risers shall be supported with rebar or angle iron secured by stainless steel clamps.

13. This system has been designed to provide a 100% coverage with 100% overlap. All water used for irrigation shall be rust free. If a chemical injection system is used in a well water system, the well shall be protected in accordance with Florida state law.

LEGEND

Symbol	Manufacturer	Part No.	Description
M		1"	Existing water meter.
◉	Watts	600 Series	1 " pressure vacuum breaker.
⊠	Rain Bird	ESP-4M	Controller-mount at location shown or as directed.
●	Hunter	Mini-Clik II	Rain switch-mount at location shown or as directed.
⬡•	Rain Bird	XCZ-075-PRF-BF	3/4" solenoid valve with valve box.
⬢	Rain Bird	075-DVF	3/4" solenoid valve with valve box.
—		Schedule 40	PVC pipe.
== ==		Schedule 40	PVC sleeves
Not Shown		14AWG Type UF	Direct burial irrigation wire.
Not Shown	U.S. Foundry	HTFS	Healthy Tree Fertilize System (See Detail)

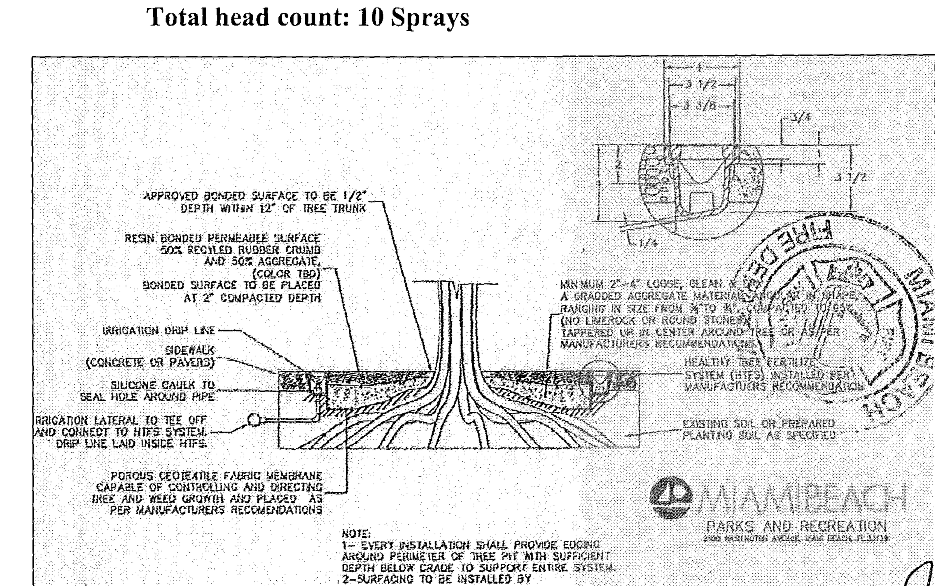
SPRINKLER HEAD SCHEDULE

Symbol	Rain Bird Part No.	Type	PSI	GPM	Rad.
	1806-12Q	6" pop-up spray	30	.65	12'
	1806-12T	6" pop-up spray	30	.87	12'
	1806-12H	6" pop-up spray	30	1.30	12'
◁	1806-15EST	6" pop-up spray	30	.61	4' X 15'
	1806-15SST	6" pop-up spray	30	1.21	4' X 30'

SPRINKLER ZONE SUMMARY

Zone No.	Head Type	GPM	Valve Size
1	Drip	2	3/4"
2	Spray	10	3/4"

Total head count: 10 Sprays



BILL LENZ
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Email: blid@bellsouth.net

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RON FAIRCHILD
AR0016263

Ron Fairchild ARCHITECT

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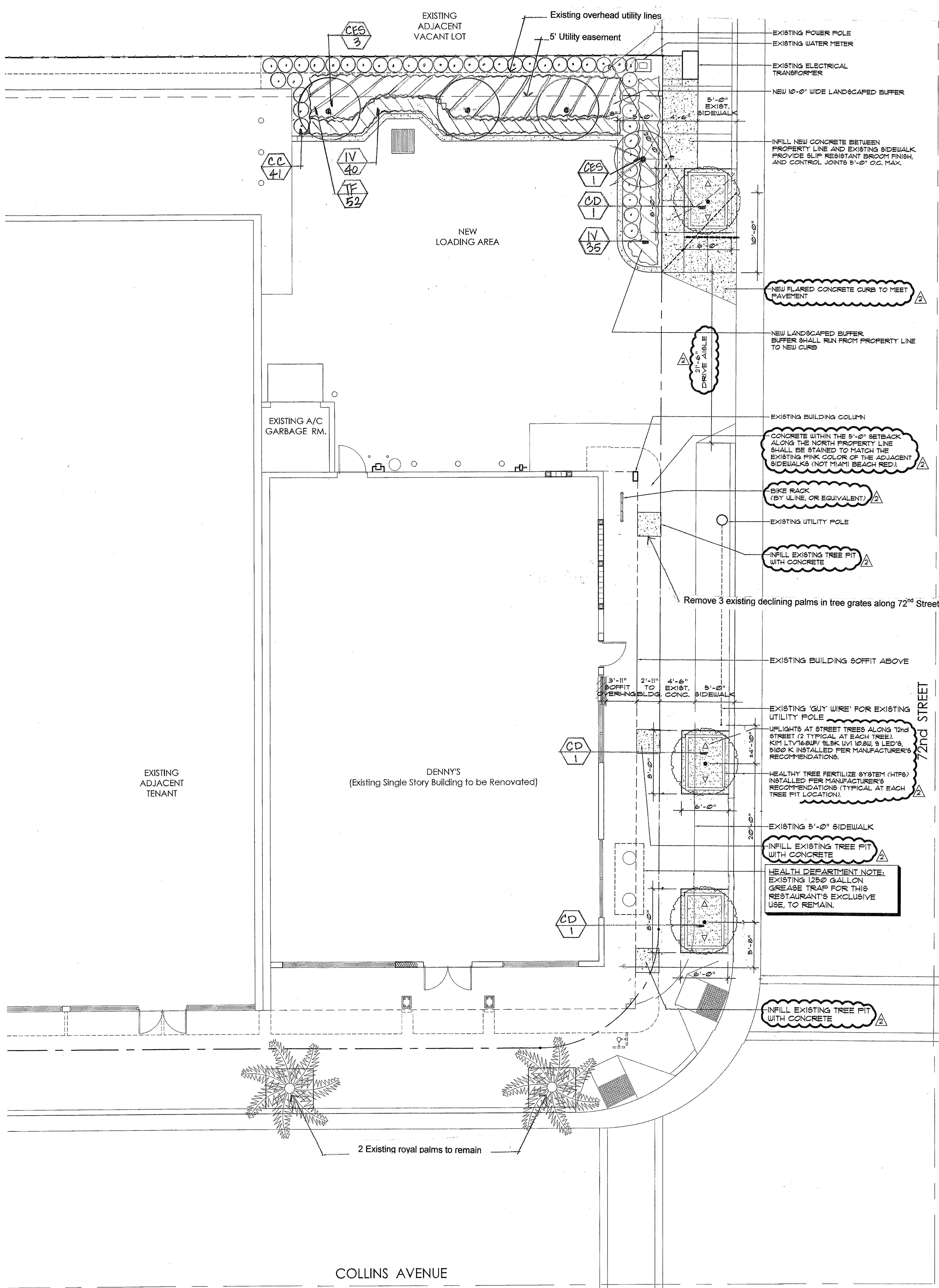
Renovation for: at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

Irrigation Plan

SHEET
IR-1.1

PROJECT: 12008
DATE: 03-04-13
A-1.1_SITE PLAN (DENNYS AT COLLINS AVE)



Plant List

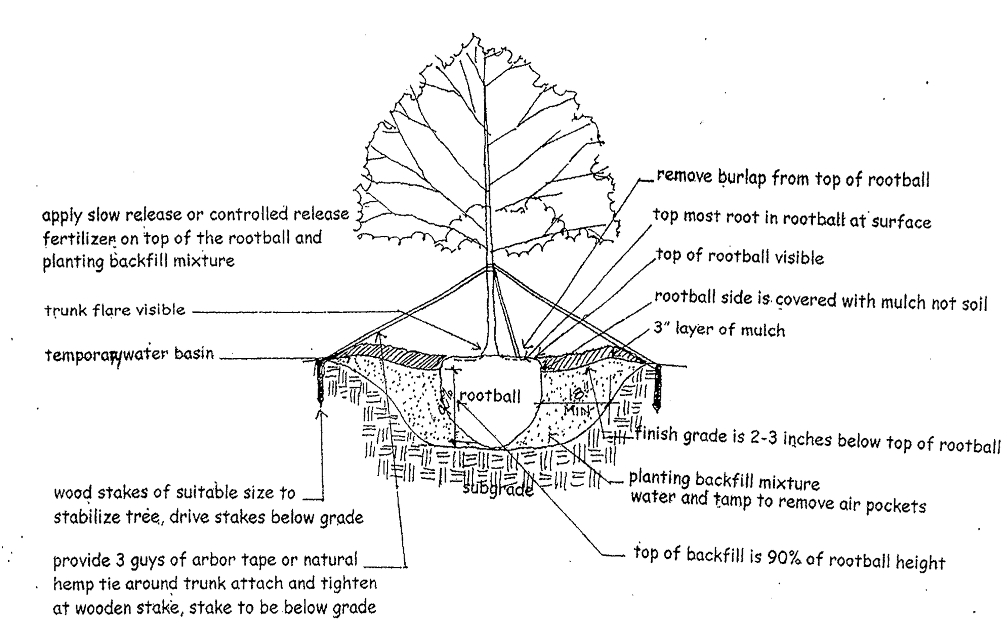
Sym	Qty	Botanical/ Common Name	Size	Native
CES	4	Conocarpus erectus serieus/ Silver Buttonwood	12' Ht x 5' Spr, 2" dbh, single trunk	yes
CD	3	Coccoloba diversifolia/ Pigeon Plum	14' Ht x 7' Spr, 6'CT, 2" dbh	yes
CC	41	Capparis cynophallophora	24" x 24", 24" O.C.	yes
TF	52	Tripsacum floridana/ Florida Gamma Grass	24" x 24", 24" O.C.	yes
IV	75	Ilex vomitoria 'Stokes Dwarf'/ Ilex	14" x 14", 12" O.C.	yes
Mulch		Shredded Eucalyptus, recycled or sterilized Melaleuca mulch		

General Notes:

1. All plant material shall be Florida No. 1 or better as given in the current Grades and Standards for Nursery Plants, Edition 2001, Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
2. All plant materials shall be subject to inspection and approval by the Landscape Architect at place of growth and upon delivery for conformity to specification.
3. All plants shall be true to species and variety and shall conform to measurements specified. All substitutions shall be submitted to the City and Landscape Architect for final approval.
4. All plants shall be exceptionally heavy, symmetrical, tight knit and so trained in appearance as to be superior to form, branching and symmetry.
5. Contractor shall notify S.U.N.S.H.I.N.E. (1-800-432-4770) for locations of existing utility lines 48 hours prior to beginning work. Contractor shall verify location of all utility lines and easements prior to commencing any work. Excavation in the vicinity of underground utilities shall be undertaken with care and by hand, if necessary. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to Owner.
6. Grade B+, shredded sterilized Melaleuca or Eucalyptus mulch shall be used in all mass planting beds and for individual tree pits. All trees shall have a mulch ring with a depth of 3" and a diameter of 3'- 4' around their base. All mulch shall be kept 4" from base of all plant material. Mulch beds shall be a minimum of 12" wider than plants measured from outside edge of foliage.
7. All trees and shrubs shall be backfilled with a suitable planting soil consisting of 50 percent sand and 50 percent approved compost. All plant materials shall be planted with a minimum of 6 to 18 inches of planting soil around the root ball. Refer to planting details. Planting soil to be backfilled into plant pits by washing in. Planting beds shall be free from road, pea, egg or colored rock, building materials, debris, weeds, noxious pests and disease.
8. All trees shall be warranted by the Contractor and will be healthy and in flourishing condition of active growth one year from date of final acceptance.
9. All shrubs, groundcovers, vines and sod shall be fully warranted for 90 days under same condition as above.
10. All synthetic burlap, synthetic string or cords or wire baskets shall be removed before any trees are planted. All synthetic tape shall be removed from trunks, branches, etc before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before trees are backfilled. Planting soil to be backfilled into pits by washing in.
11. All trees, palms and other plants shall be planted with the top of their rootballs no deeper than the final grade surrounding the planting area.
12. In areas where paved surfaces abut sod or mulch, the final level of both surfaces should be even.
13. All planting shall be installed with fertilizer at time of planting.
14. All planting shall be installed in a sound, workmanlike manner and according to good planting procedures. Installation shall include watering, weeding, fertilizing, mulching, selective pruning and removal of refuse and debris on a regular basis so as to present a neat and well kept appearance at all times.
15. All landscape and sod areas shall have an automatic irrigation system installed. Coverage should be 100% with 50% minimum overlap using rust free water to all landscape and sod areas. Spray upon public sidewalks, streets and adjacent properties should be minimized. Sodded areas and shrub/ groundcover beds should be on separate irrigation zones for a more efficient system. Irrigation system shall be installed with a rainswitch device.
16. All landscape and irrigation shall be installed in compliance with all local codes.
17. The plan shall take precedence over the plant list, should there be any discrepancy between the two.

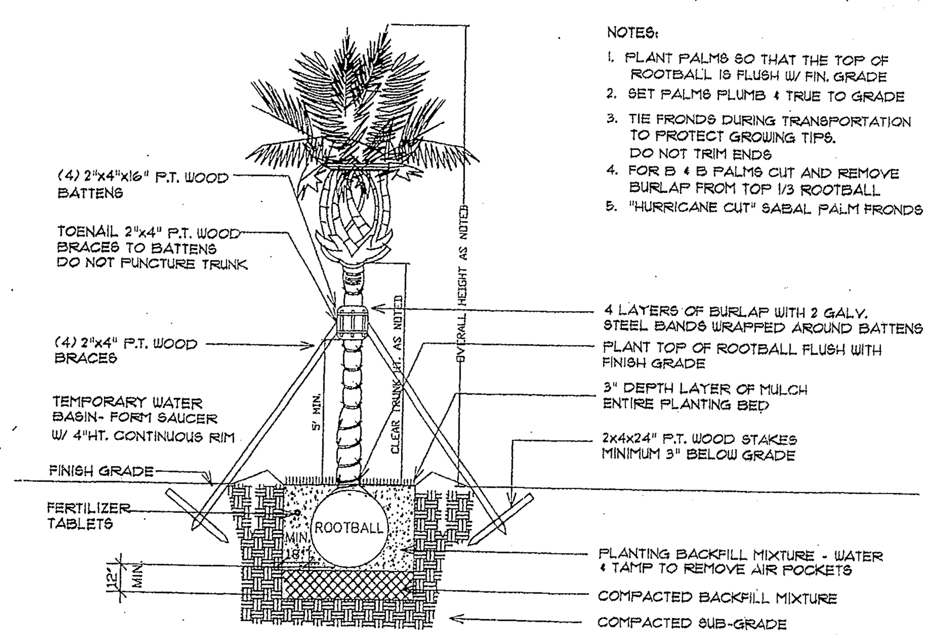
City of Miami Beach
Fire Prevention Division
PLANS APPROVED

Notes:
1. Set tree plumb to finish grade
2. No soil or mulch shall be placed over the rootball.
3. All staking & guys shall be removed approximately 9 months after planting or as directed by Landscape Architect.
4. Do not cut central leader or top of tree.



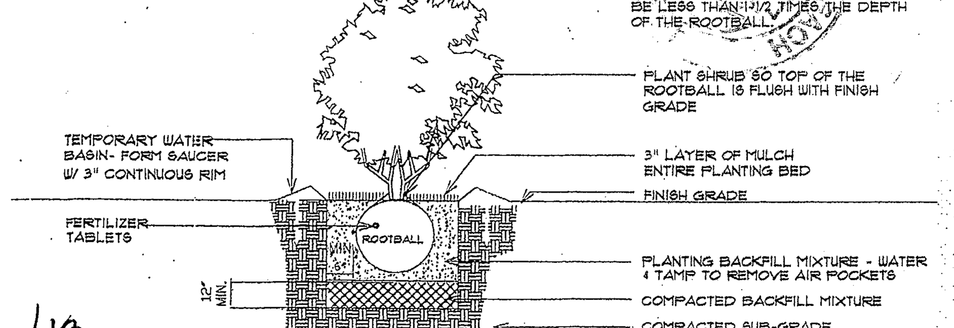
TREE PLANTING & STAKING DETAIL
NTS

NOTES:
1. PLANT PALMS SO THAT THE TOP OF ROOTBALL IS FLUSH W/ FIN. GRADE
2. SET PALMS PLUMB & TRUE TO GRADE
3. TIE FRONDS DURING TRANSPORTATION TO PROTECT GROWING TIPS. DO NOT TRIM ENDS
4. FOR B & B PALMS CUT AND REMOVE BURLAP FROM TOP 1/3 ROOTBALL
5. "HURRICANE CUT" SABAL PALM FRONDS



PALM PLANTING DETAIL
NTS

NOTES:
1. CONTAINER GROWN SHRUBS - LOOSEN ROOTS AT EDGE OF ROOTBALL
2. BALL AND BURLAP SHRUBS - CUT & REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.
3. WHERE SHUBS & GROUNDCOVER ARE PLANTED IN BEDS, EXCAVATE ENTIRE BED, & FILL W/ PLANTING BACKFILL MIXTURE.
4. DEPTH OF PLANTING PIT SHALL NOT BE LESS THAN 1-1/2 TIMES THE DEPTH OF THE ROOTBALL.



SHRUB PLANTING DETAIL
NTS

Vonings 4/11/13

PROFESSIONAL SEAL

Kimberly Moyer, RLA
Landscape Architecture
(954) 492-9609
Lic. No. #LA0000952

Ron Fairchild ARCHITECT

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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:
3/4/13

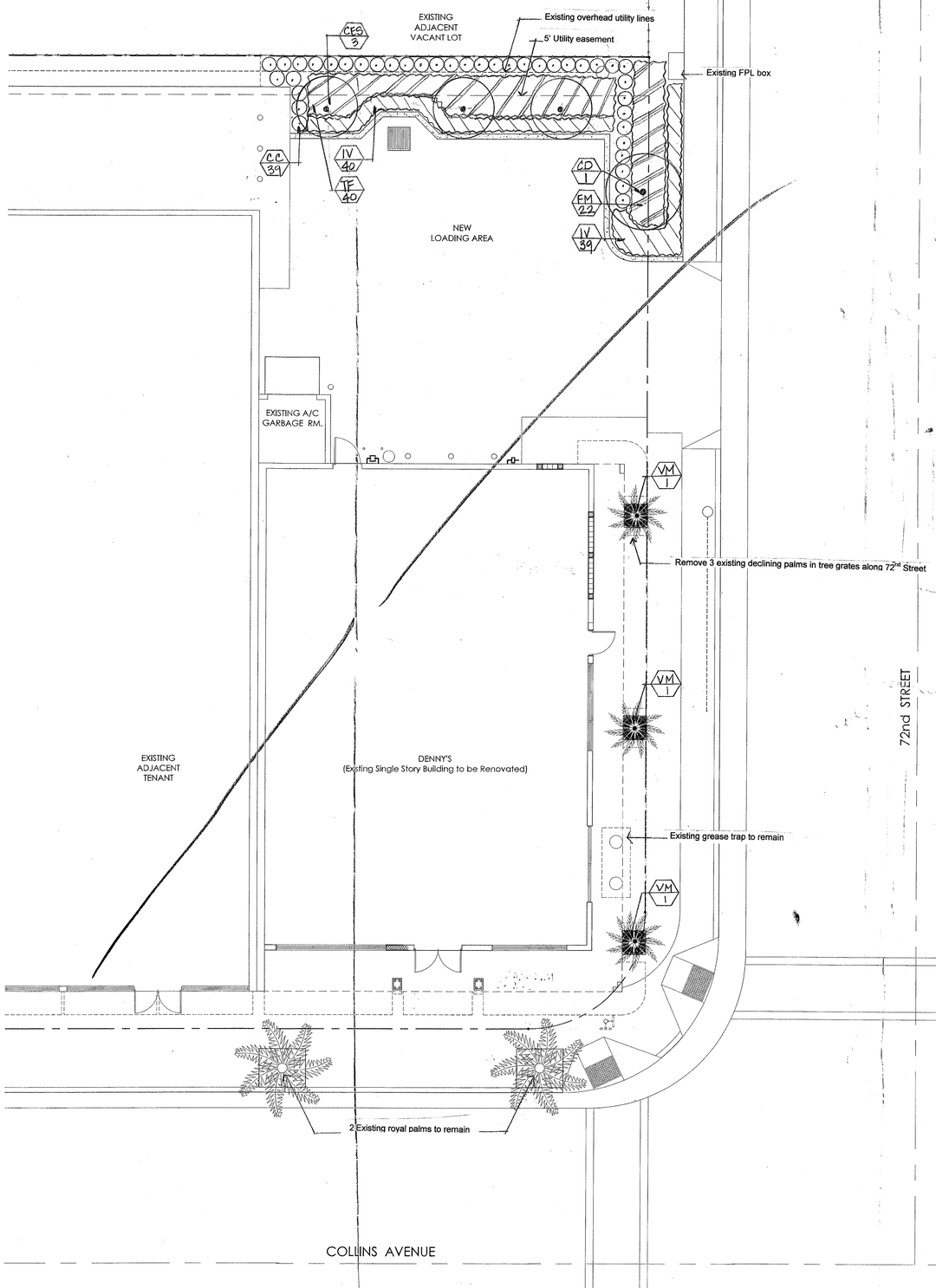
LANDSCAPE PLAN

SHEET
L-1

PROJECT: 12008
DATE: 10-19-12
A-1.1_SITE PLAN (DENNYS AT COLLINS AVE)

LANDSCAPE PLAN

SCALE: 1/8" = 1'-0"



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VM	3	Veitchia montgomeryana/ Montgomery Palm	14' CT, matched	no
CC	39	Capparis cynophallophora	24" x 24", 24" O.C.	yes
TF	40	Tripsacum floridana/ Florida Gamma Grass	24" x 24", 24" O.C.	yes
IV	79	Ilex vomitoria 'Stokes Dwarf'/ Ilex	14" x 14", 12" O.C.	yes
FM	22	Ficus microcarpa 'Green Island'/ Green Island	14" x 14", 24" O.C.	no
Mulch		Shredded Eucalyptus, recycled or sterilized Melaleuca mulch		

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1. All plant material shall be Florida No. 1 or better as given in the current Grades and Standards for Nursery Plants, Edition 2001, Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
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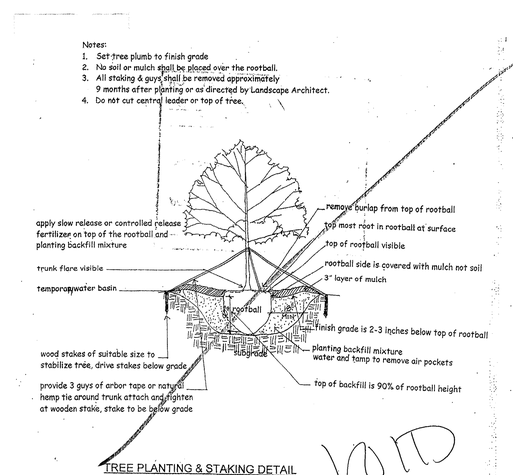
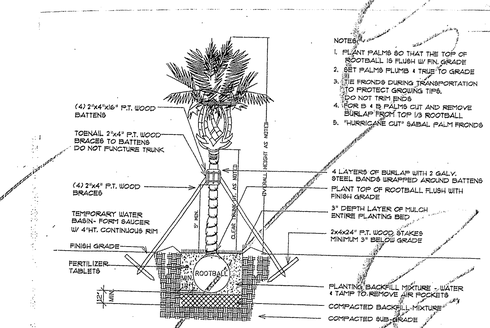
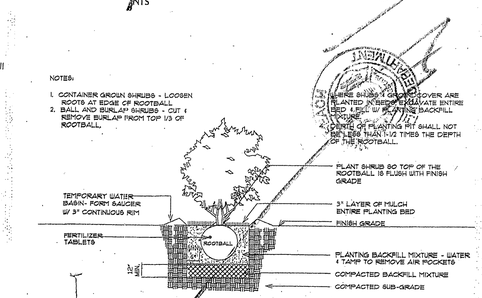


TREE PLANTING & STAKING DETAIL
NTS



PALM PLANTING DETAIL
NTS



SHRUB PLANTING DETAIL
NTS

LANDSCAPE PLAN

SCALE: 1/8" = 1'-0"

PROFESSIONAL SEAL

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Landscape Architecture
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Lic. No. #LA0000952

Ron Fairchild ARCHITECT

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Renovation for:
Denny's at Collins Avenue
7140 Collins Avenue
Miami Beach, Florida, 33141 - 3212

DRAWING REVISION DATES:

VOID
LANDSCAPE PLAN

SHEET
[redacted]

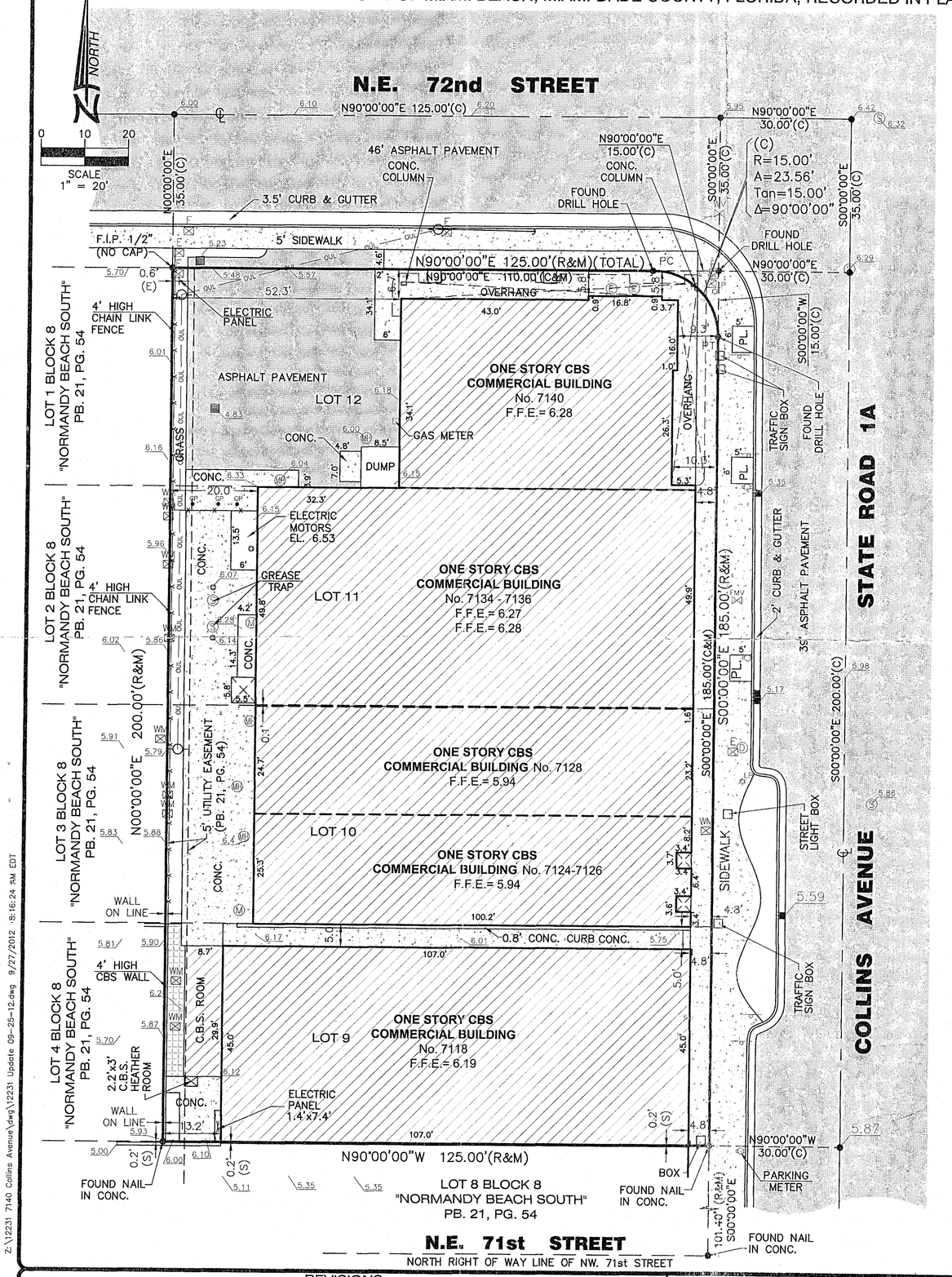
PROJECT: 12008
DATE: 10-19-12
A-1.1_SITE PLAN (DENNYS AT COLLINS AVE)

BACK

B130219R

MAP OF BOUNDARY SURVEY

LOTS 9, 10, 11 AND 12, IN BLOCK 8, "NORMANDY BEACH SOUTH", IN SECTION 2, TOWNSHIP 53 SOUTH, RANGE 42 EAST,
CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA; RECORDED IN PLAT BOOK 21, PAGE 54, MIAMI-DADE COUNTY RECORDS

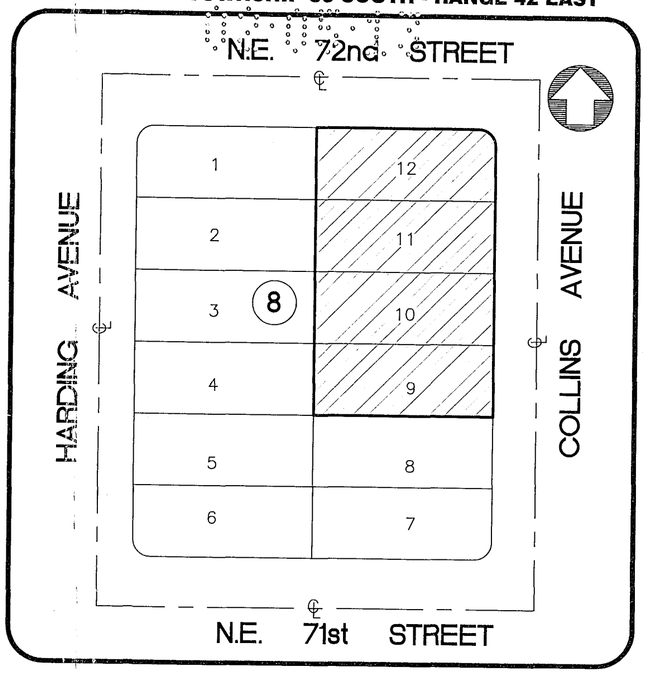


LEGEND:

DRWY	= DRIVEWAY		= WOOD UTILITY POLE
D.M.E.	= DRAINAGE MAINTENANCE EASEMENT		= ANCHOR POLE
C.M.E.	= CANAL MAINTENANCE EASEMENT		= CONCRETE LIGHT POLE
U.E.	= UTILITY EASEMENT		= CONCRETE POWER POLE
A	= ARC DISTANCE		= FIRE HYDRANT
BLDG.	= BUILDING		= ELECTRIC BOX
C.B.	= CATCH BASIN		= CABLE TV BOX
C.B.S.	= CONCRETE BLOCK STRUCTURE		= WIRE PULL BOX
CH.	= CHORD DISTANCE		= WATER VALVE
C	= CALCULATED VALUE		= SEWER VALVE
(C)	= CLEAR		= METAL LIGHT POLE
℄	= CENTER LINE		= WATER MANHOLE
CONC.	= CONCRETE		= TELEPHONE MANHOLE
P.R.C	= POINT OF REVERSE CURVE		= DRAINAGE MANHOLE
P.C.	= POINT OF CURVATURE		= SANITARY SEWER MANHOLE
F.N.D.	= FOUND NAIL/DISK	T.B.M.	= TEMPORARY BENCH MARK
P.C.C.	= POINT OF COMPOUND CURVE		= PARKING METER
℄	= BASELINE		= FLAG POLE
N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM	F.F.E.	= FINISH FLOOR ELEVATION
INV. EL.	= INVERT ELEVATION		= BLOCK CORNER
P.B.	= PLAT BOOK		= RADIUS
P.C.P.	= PERMANENT CONTROL POINT		= RADIAL
CMP	= CORRUGATED METAL PIPE		= RESIDENCE
P.I.	= POINT OF INTERSECTION		= RIGHT OF WAY
B/C	= BLOCK CORNER		= SECTION
R	= RADIUS	S.I.P.	= SET IRON PIPE
RAD.	= RADIAL	P.O.P.	= TOP OF PIPE
RES.	= RESIDENCE		= SIDEWALK
R/W	= RIGHT OF WAY		= PAGE
SEC.	= SECTION	P.O.B.	= POINT OF BEGINNING
S.I.P.	= SET IRON PIPE		= PROPERTY LINE
T.O.P.	= TOP OF PIPE	N.T.S.	= NOT TO SCALE
SWK	= SIDEWALK		= ELEVATION
PG.	= PAGE		= WATER OUTLET
P.O.B.	= POINT OF BEGINNING	BL.	= BLOCK
℄	= PROPERTY LINE		= CLEANOUT
N.T.S.	= NOT TO SCALE		= MONUMENT LINE
	= ELEVATION		= DRAINAGE CATCH BASIN
	= WATER OUTLET		= CENTRAL ANGLE
BL.	= BLOCK		= TRAFFIC SIGN
	= CLEANOUT		= CATCH BASIN (INLET)
	= MONUMENT LINE		= MAST ARM
	= DRAINAGE CATCH BASIN		= SHADE TREE
	= CENTRAL ANGLE	X-Y-Z	
	= TRAFFIC SIGN		= PALM TREE
	= CATCH BASIN (INLET)	X-Y-Z	
	= MAST ARM		X=TRUNK DIAMETER Y=TREE HIGH Z=CANOPY DIAMETER

	= RIGHT OF WAY LINE
	= PROPERTY LINE
	= EASEMENT LINE
	= IRON FENCE
	= WOOD FENCE
	= CHAIN LINK FENCE
OUL — OUL	= OVERHEAD UTILITY LINE
	= BRICK
	= CONCRETE
	= GRAVEL
	= TILE
	= PAVEMENT
	= CBS WALL

SECTION 2 - TOWNSHIP 53 SOUTH - RANGE 42 EAST



LOCATION MAP
NOT TO SCALE

SURVEYOR'S NOTES:

SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of original field Survey was on December 01, 2004 and an updated field survey was performed on September 26, 2012.

SECTION 2) LEGAL DESCRIPTION:

Lots 9, 10, 11, and 12, in Block 8, "NORMANDY BEACH SOUTH", according to the plat thereof, as recorded in Plat Book 21, at Page 54, of the Public Records of Miami-Dade County Florida.

Containing 29,744 Square Feet or 0.68 Acres, more or less, by calculations.

Property Address: 7140 Collins Avenue, Miami Beach, Florida, 33141
Folio No.: 02-3211-002-0660

Property Address: 7124 Collins Avenue, Miami Beach, Florida, 33141
Folio No.: 02-3211-002-0640

Property Address: 7118 Collins Avenue, Miami Beach, Florida, 33141
Folio No.: 02-3211-002-0630

Property Address: 7134 Collins Avenue, Miami Beach, Florida, 33141
Folio No.: 02-3211-002-0650

SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for Commercial/High Risk area (Linear: 1 foot in 10,000 feet) as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of One inch equals Twenty feet or smaller.

SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.

Bearings as shown hereon are based upon the North Boundary line of the subject site with an assumed bearing of N90°00'00"E, said line to be considered a well established and monumented line.

This property appears to be located in Flood Zone "AE" with a Base Flood Elevation of 8.0 Feet, as per Federal Emergency Management Agency (FEMA) Community Number 120650 (City of Miami), Map Panel No. 0326, Suffix L, Map Revised Date: September 11, 2009.

Legal Description was furnished by client.

Plat of "NORMANDY BEACH SOUTH", recorded in Plat Book 21, Page 54, Miami-Dade County Records.

All elevations shown hereon are based on the National Geodetic Vertical Datum of 1929, and a Benchmark supplied by the Public Works Department of Miami-Dade County, Florida.

Benchmark: C-313
Elevation: + 8.24 feet
Located at Collins Avenue and 72 Street, City of Miami Beach, Miami-Dade County, Florida.

SECTION 5) LIMITATIONS:

Since no other information were furnished other than that is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear on the Public Records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

SECTION 6) CLIENT INFORMATION:

This Boundary Survey was prepared at the insistence of and certified to:

24-7 RESTAURANT GROUP, INC.

SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Boundary Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Boundary Survey" meets the intent of the applicable provisions of the "Minimum Technical Standards for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADONNE CORP., a Florida Corporation
Florida Certificate of Authorization Number LB7097

By: _____
Jose Senas, PSM
Registered Surveyor and Mapper LS5938
State of Florida

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

REVISIONS
09-20-12 UPDATE SURVEY

MAP OF BOUNDARY SURVEY
of
7140 Collins Avenue, Miami Beach, Florida 33141
for
24-7 RESTAURANT GROUP, INC.

HADONNE
LB7097
PROFESSIONAL LAND SURVEYORS AND MAPPERS
1985 NW. 88th Court, Suite 202, Doral, Florida, 33172
Phone: 305.266.1188 · Fax: 305.207.6845 · www.hadonne.com

R. No.:	12231
F.B.:	FILE
DRAWN BY:	MJL
CHECKED BY:	JS
	1/1

Z:\12231 7140 Collins Avenue\dwg\12231 Update 09-25-12.dwg 9/27/2012 8:16:24 PM EDT