FACADE MODIFICATION AND LEVEL II ALTERATION GREEN OWL RESTAURANT 11 S.E. 4th Avenue Delray Beach, FL



4-29-16

BUILDING ARCHITECTURE RICK BRAUTIGAN ARCHITECTURE, INC 1025 South Dixle Highway

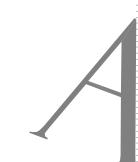
<u>No.</u>	Title	lssued
A.1	Cover Sheet	-4-29-16
A.2	Existing Site Plan/ Project Data	
A.3	Demo Plan/Demo Elevations	4-29-16
A.4	Proposed Floor Plan/ Seating Plan	4-29-16
A.5	Proposed Elevations/Color Elevations	4-29-16
A.6	Proposed Interior Elevations	4-29-16

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M1.1 Mechanical Floor and Roof Plan. 4-29-16 M2.1 Mechanical Details. 4-29-16 M3.1 Mechanical Specifications... 4-29-16 PLUMBING P0.1 Plumbing Legend, Notes, Schedules and Sheet Index. 4-29-16 P1.1 Plumbing Floor and Roof Plan.. 4-29-16 4-29-16 P2.1 Plumbing Isometric Diagrams... P3.1 Plumbing Details... 4-29-16 ELECTRICAL E0.1 Electrical Legends, Notes, and Sheet Index... 4-29-16 E1.1 Electrical Floor & Roof Power Plans.. 4-29-16 E2.1 Electrical Floor Lighting Plan. 4-29-16

E3.1 Electrical Riser Diagram & Panel Schedules...

Existing Building



HITECTURE RickBrautigan

> 1025SDixie Highway Delray Beach, FL 33483 Ph:5612729086 F x: 5 6 1 2 7 2 5 6 3 6 AAC002029

> > Facade Modification and Level II Alteration Green Owl Restaurant 11 SE 4th Ave.

Delray Beach, Florida rba. pn. 10116.01

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:Permit Set G.C. Bid Set \bigcirc 0 4/15/16:Review Set



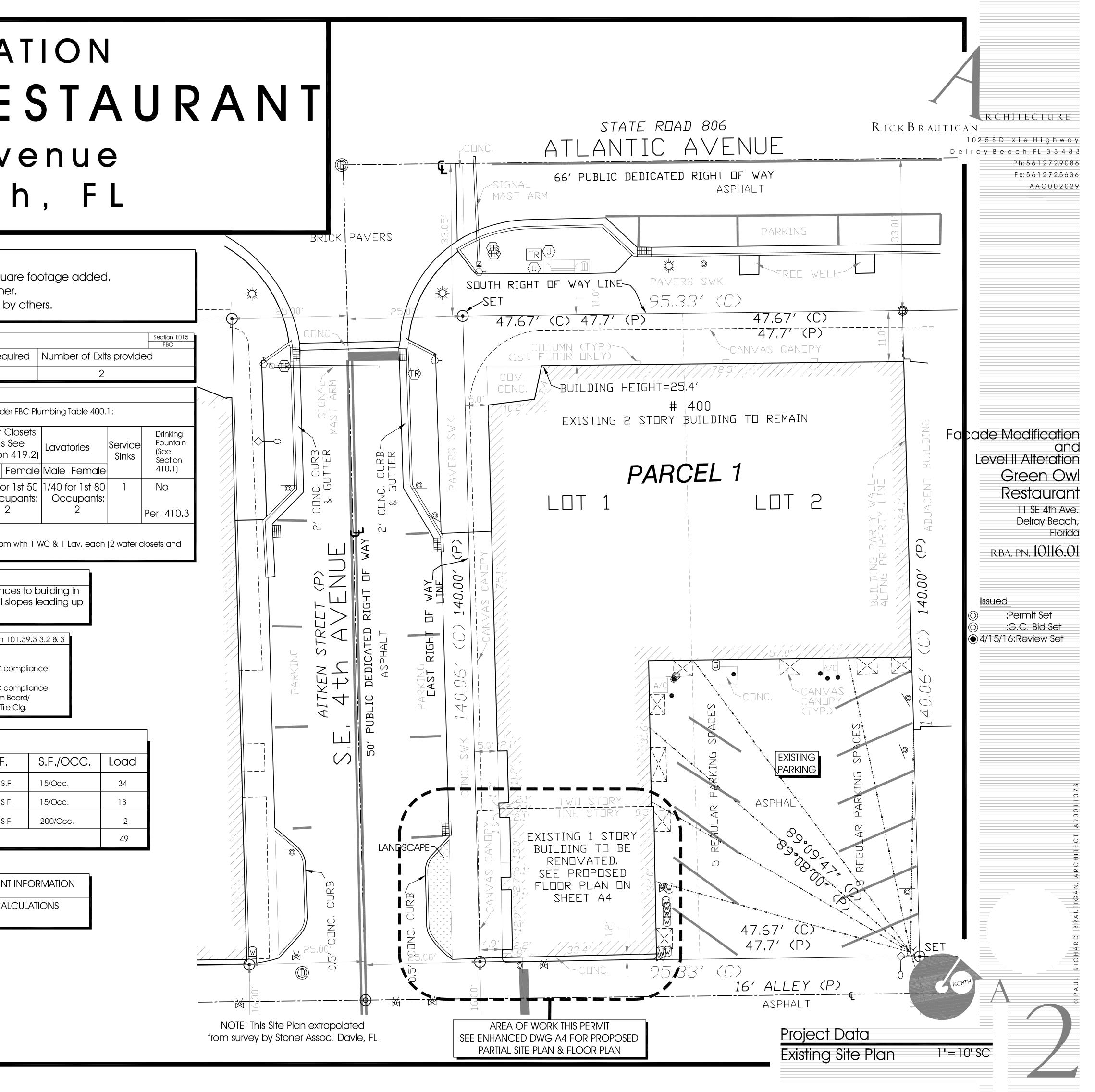
Cover Sheet

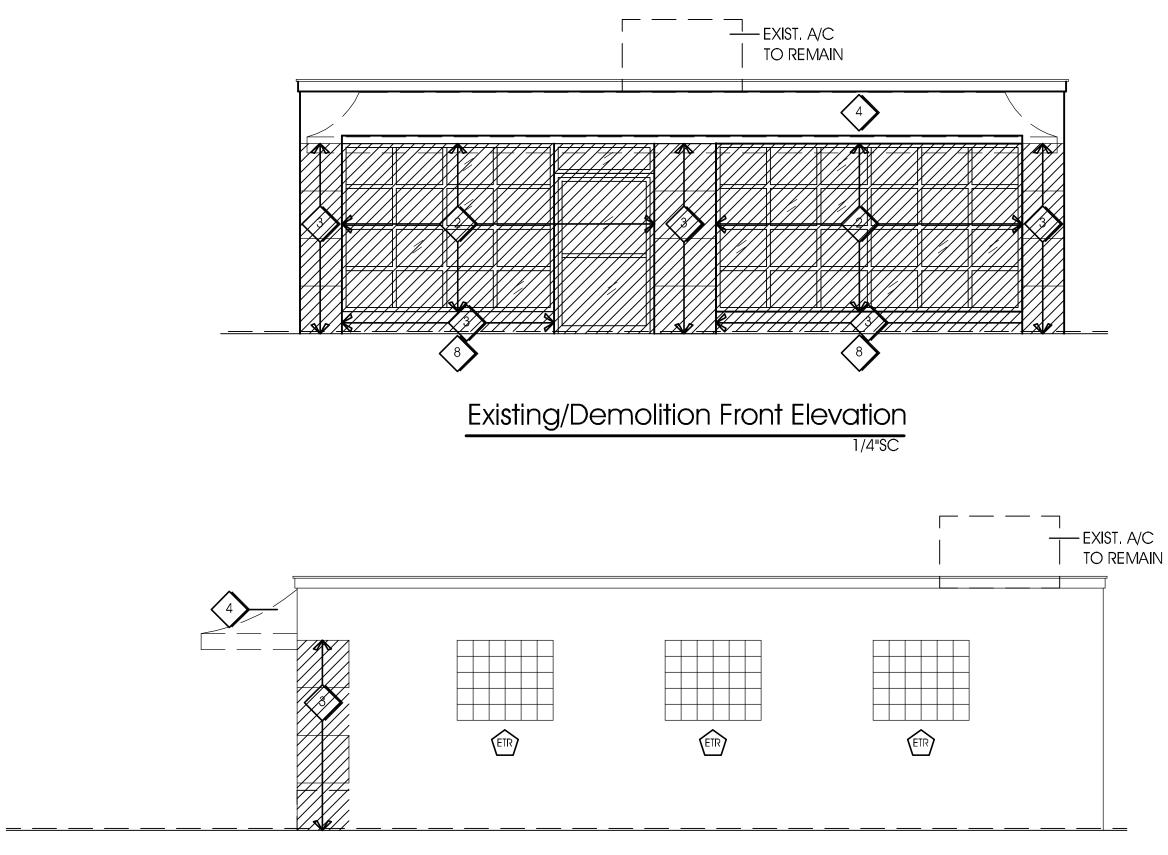
	LEVI	ELII	ALT	ERA
GREE	Ν	O W		RE
	11	S .E.	4th	Av
	Del	ray	Be	ac

SITE DATA	NOTES:		
ZONING: CBD - Central Business District	1. There is r		•
Area (Building)Existing to remainGround floor area:1,010 s.f.	2. All interio 3. Equipme		•
PARKING STATEMENT:			
Existing parking spaces to remain.	Number of Exi	its	
APPLICABLE CODES	Occupancy	Number of	Exits req
	В]
 Florida Building Code 2014 (5th Edition) Florida Fire Prevention Code 5th Edition 2012 	TOILET ROOM	1 CALCULATI	ONS :
 NFPA 1 & 101 Life Safety Code Florida specific editions Florida Building Code - Accessibility, 2014 Edition 	Required plumb	oing fixtures for	use unde
5. Florida Building Code - Existing, 2014 Edition			Water C
Existing Occupancy: Offices - Business Occupancy (B)	Classification	Decupanev	(Urinals Section
Proposed Occupancy: Restaurant (< 50 occ.) - Business Occupancy (B) Per 303.1.1 FBC		,	Male F
TYPE OF CONSTRUCTION: I B	В	49	1/25 for
NO. OF STORIES: 1 Non- Sprinkled			
BUILDING AREAS (No SF added)			Ż
Kitchen 312.0 SF Indoor Dining 508.0 SF	Provided:		
Restroom/Gen.190.0 SFBldg. Gross Area (A/C)1,010 SF	Separate Men's 2 lavatories toto		
Outdoor Dining 202.0 SF			
STRUCTURAL DATA:	ADA ACCESS Provide level		t entranc
1. Basic Wind Speed170	compliance	with ADA. V	
3 sec gust 2. Wind Importance Factor 1.0	to entry com	ipiy.	
3. Category24. Wind ExposureC	NFPA Interior Finis	sh Schedule pe	er section 1
5. Internal Pressure Coefficient See Elevation	Floors; No (Requirements	
6. Building design Enclosed +/- 0.18	Walls: Req	iuired: Class A rided: Class A	
SCOPE OF WORK:	Ceiling: Req	uired: Class A	, B, or C c
LEVEL II ALTERATION. CHANGE OF USE OF EXISTING OFFICE SPACE TO	Prov	rided: Class A Class	A Susp. Tile
RESTAURANT: CONSISTING OF TWO NEW ADA RESTROOMS, NEW INDOOR/OUTDOOR DINING AREA AND NEW KITCHEN AREA	L		
	OCCUPANI	[LOAD	
Cornell Museum of Art Bru's Room	Use		S.F.
NE 2nd Ave	Indoor Seating		508 S.I
E Atlantic Ave	Outdoor Seating		202 S.I
SE Ist Ave SE 2nd	Kitchen		312 S.I
	Total Occupant	Load	
St SE 1st St St SE 1st St	SEE DWG 4 F	OR FIRE DEP	ARTMEN'
SE 7th Ave	SEE DWG 5 F	OR STOREFR	ONT CA

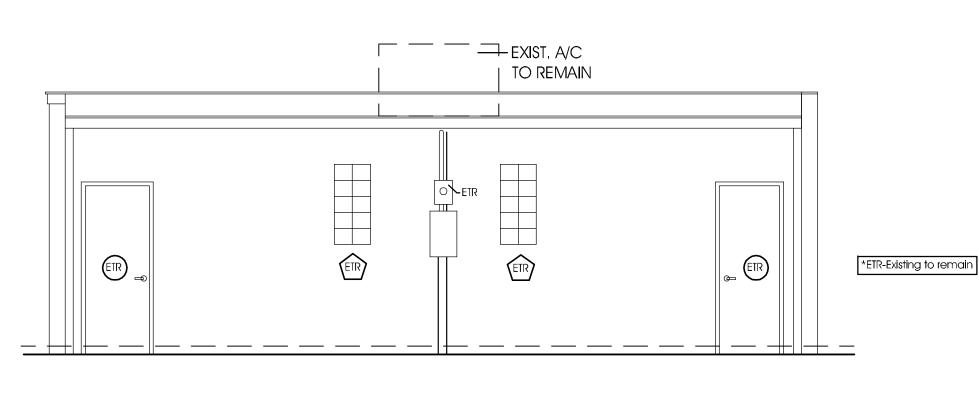
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LOCATION MAP:

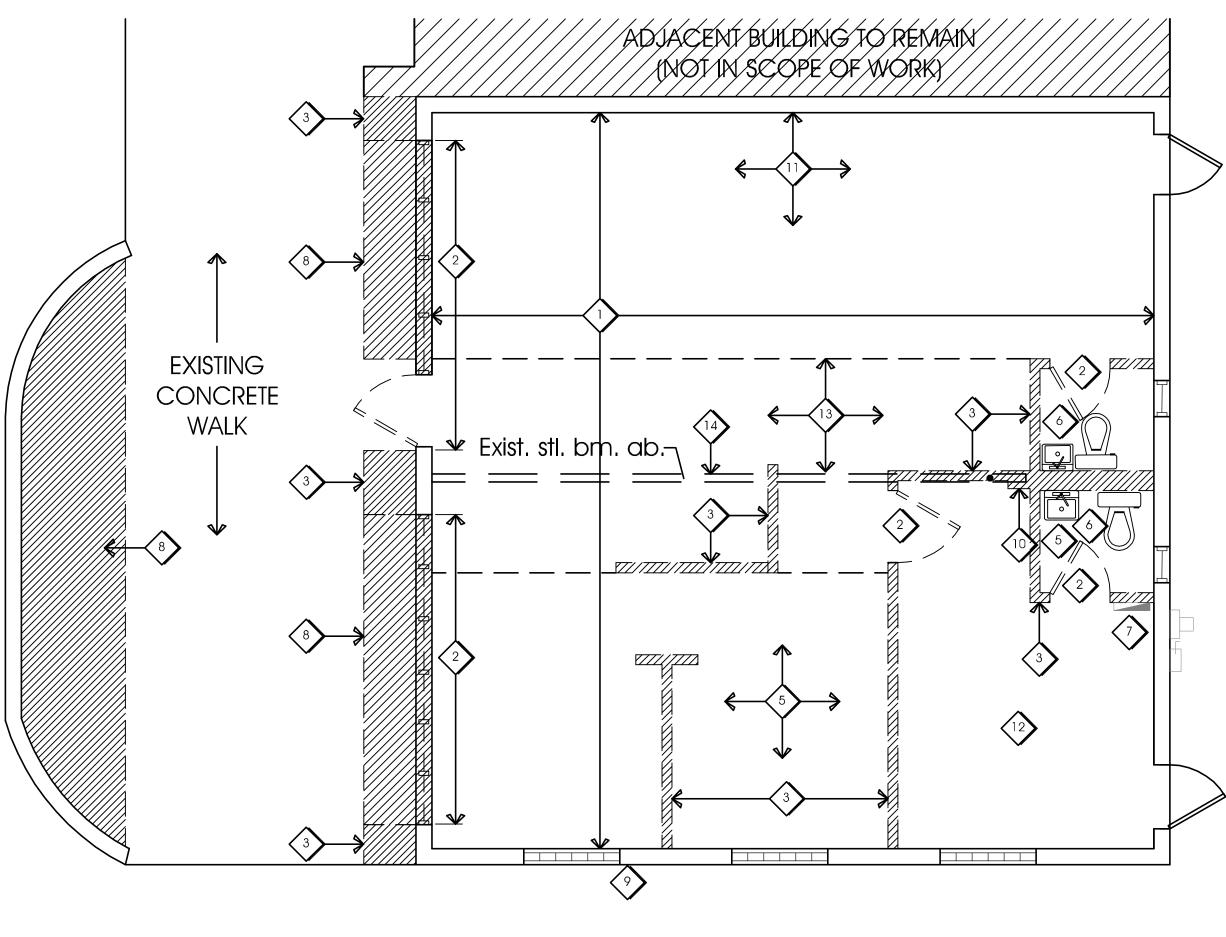




Existing/Demolition Side Elevation 1/4"SC



Existing/Demolition Rear Elevation 1/4"SC



Existing /Demolition Floor Plan

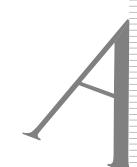
DEMOLITION PLAN NOTES:

- Remove existing flooring to slab
- 2 Remove existing window/door
- Remove existing walls/portion of wall/column/curb
- A Remove awning
- 5 Sawcut existing slab as req'd for new plumbing system. See detail 5 for repair
- Remove existing plumbing fixtures
- Remove/relocate electrical plan
- Remove landscape
- VIF loc/size of prop. exhaust fan. Notify Architect
- VIF exist. T.S. col. loc. Notify Architect
- Remove exist. lath/plaster (all walls)
- Remove exist. suspended ceiling
- Remove exist. G.W.Bd. ceiling to wood joist along with lighting
- Remove exist. G.W.Bd. from stl. bm.

GENERAL DEMOLITION NOTES:

- 2.
- become the contractors property unless otherwise noted. 3. usable as spare parts.
- 4. building.
- 5.
- 6. 7. Electrician to field inspect and cap appropriate electrical prior to demolition.
- 8. N/A 9,
- architect in the field, to facilitate the installation of the new systems. 10.
- be relocated and reused or to remain in operation and be integrated with the new systems.
- contractor

Shoring Note: G.C. to shore existing conc./stl. beams (VIF) prior to removing any existing cbs walls under.



RCHITECTURE RICKBRAUTIGAN

1025SDixie Highway Delray Beach, FL 33483 Ph:5612729086 F x: 5612725636 A A C 0 0 2 0 2 9

1/4"SC

Contractor to notify architect of any discrepancies between plans and construction drawings prior to demo. All waste material and debris shall be removed from the site by the contractor. material shall not be allowed to accumulate or become a safety/fire hazard. Open burning will not be permitted. All the salvaged materials will

The owner reserves the right to inspect the material scheduled for removal and salvage any items they deem

Dust control: Use all means necessary to control air pollution and other environmental contamination as required to prevent dust or debris being a nuisance to the public, neighbors, and concurrent performance of other work in the

Protection: install and maintain barricades, and pedestrian cautions in accordance with local safety regulations and ordinances. Cutting and patching: it is intended that the general contractor shall perform all cutting and patching for general construction trades, mechanical and electrical. Patching shall mean the restoration of a surface or item to its original condition to match the existing unless otherwise indicated, noted, detailed or specified. cutting and patching shall be done by the proper trades and crafts necessary for the materials involved. Contractor to field verify removal of any structural members not identified on plans with architect prior to demolition.

During the execution of the work, all required location, rerouting, etc., of existing equipment and systems in the existing building shall be performed by the contractor, or as required by job conditions and as determined by the

Prior to relocation and/or demolition work, arrange a conference with the architect and/or the owner in the field to inspect each of the items to be removed or relocated. Care shall be taken to protect all equipment designated to

11. All deactivation, relocation, and temporary tie-ins shall be provided by the contractor. All demolition, removal and the legal disposal of demolished materials of system designated to be demolished shall be provided by the

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Demolition Floor Plan &

Elevations

1/4" SC

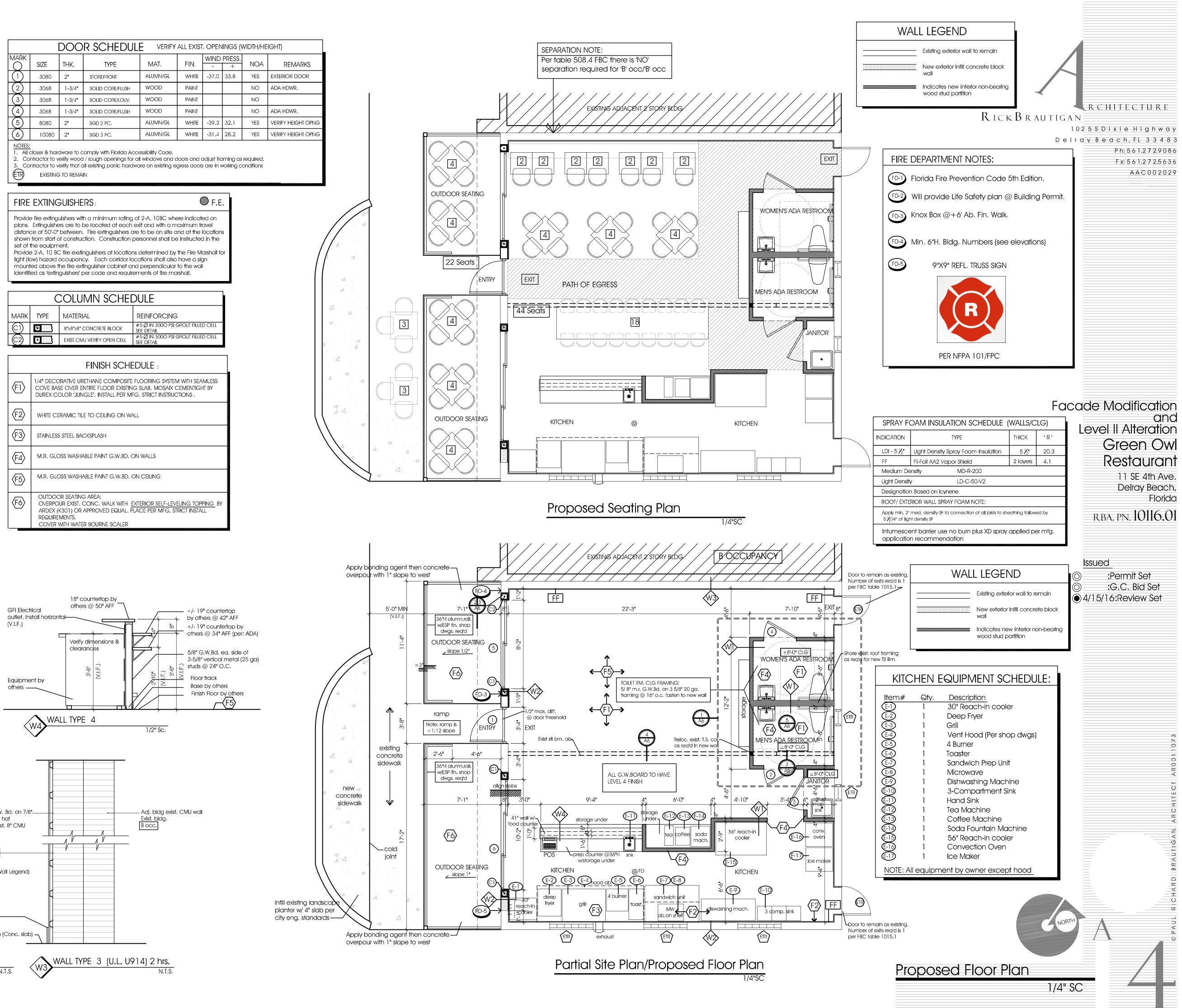
10. Contractor shall carry all necessary insurance as required by law

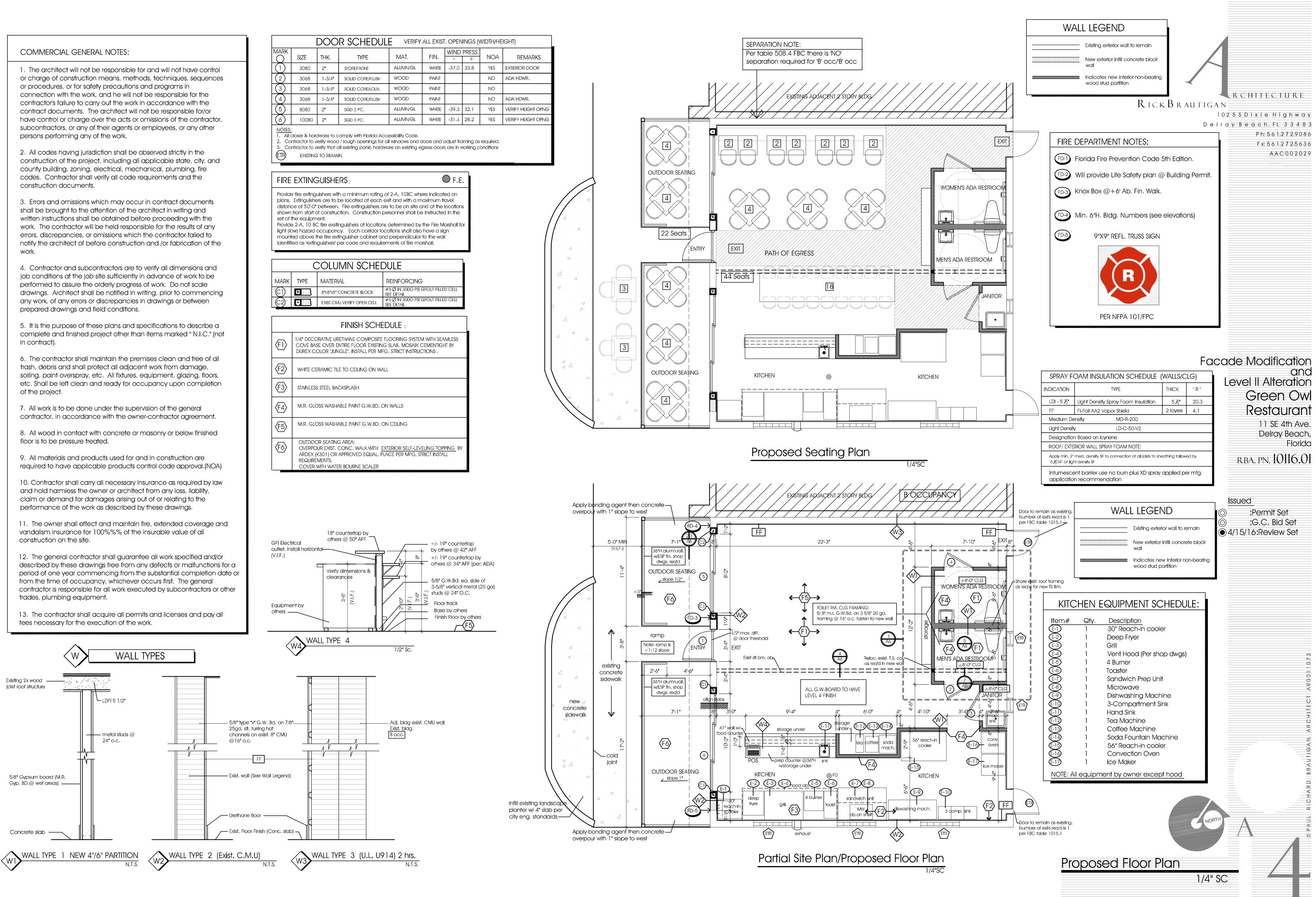
SIZE MAT. TYPE 3080 2**"** STOREFRONT WOOD 3068 1-3/4" SOLID CORE/FLUSH WOOD 3068 1-3/4" SOLID CORE/LOUV WOOD 3068 1-3/4" SOLID CORE/FLUSH SGD 2 PC. ALUMN/GL 8080 2" 10080 2" SGD 3 PC.

EXISTING TO REMAIN

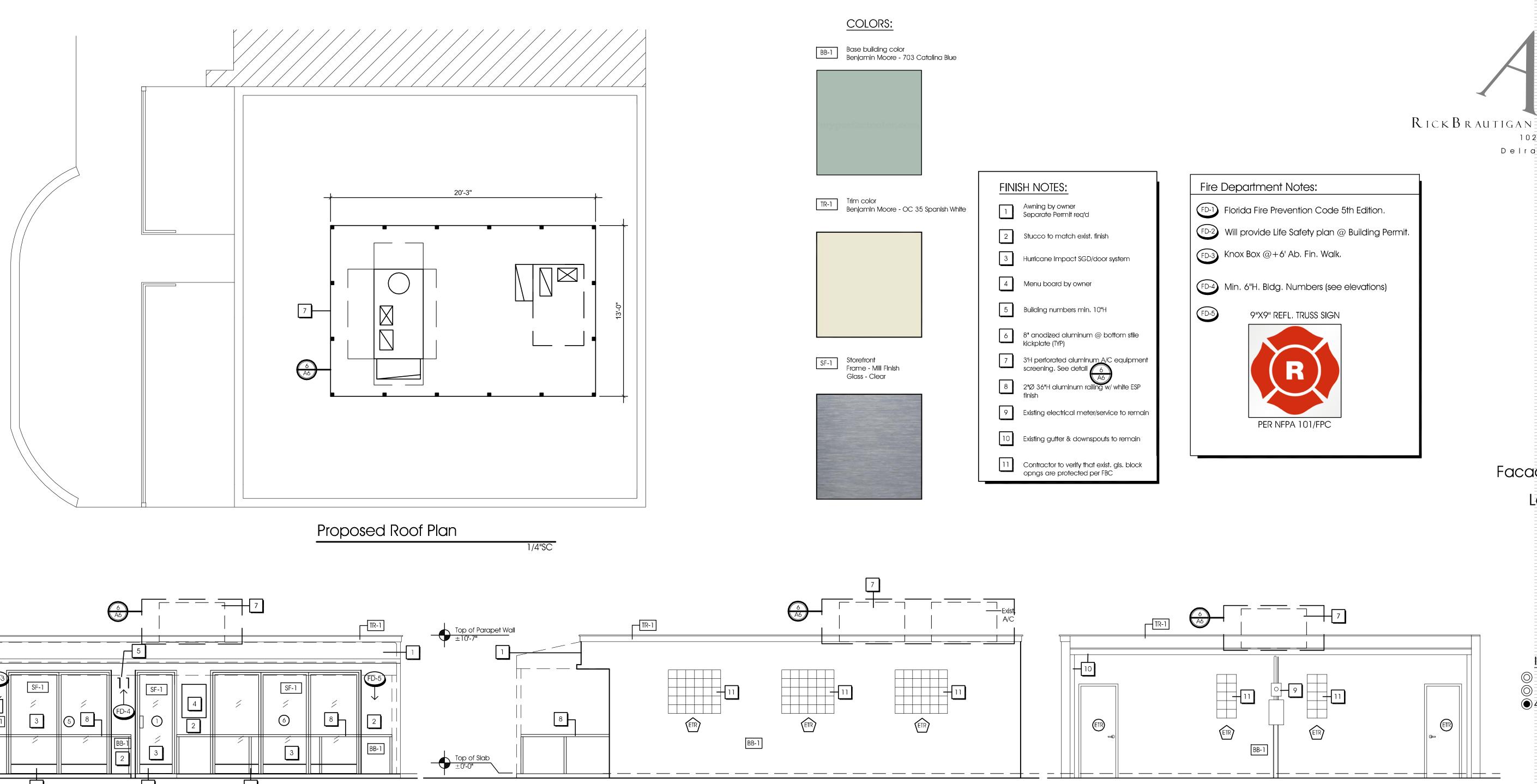
	COLUMN SCHEDULE						
MARK	TYPE	MATERIAL	REINFORCING				
\bigcirc	2	8"x8"x8" CONCRETE BLOCK	#5 Ø IN 3000 PSI SEE DETAIL				
$\bigcirc 2$	$\overline{\mathbf{\cdot}}$	EXIST.CMU VERIFY OPEN CELL	#5 Ø IN 3000 PSI SEE DETAIL				

	FINISH SCHEDULE :
(F1)	1/4" DECORATIVE URETHANE COMPOSITE FLOORING SYSTE COVE BASE OVER ENTIRE FLOOR EXISTING SLAB. MOSAIX DUREX COLOR 'JUNGLE'. INSTALL PER MFG. STRICT INSTRUC
(F2)	WHITE CERAMIC TILE TO CEILING ON WALL
(F3)	STAINLESS STEEL BACKSPLASH
F4	M.R. GLOSS WASHABLE PAINT G.W.BD. ON WALLS
(F5)	M.R. GLOSS WASHABLE PAINT G.W.BD. ON CEILING
(F6)	Outdoor Seating Area: Overpour Exist. Conc. Walk with <u>Exterior Self-Lev</u> Ardex (K301) or Approved Equal. Place Per MFG, S Requirements. Cover With Water Bourne Scaler

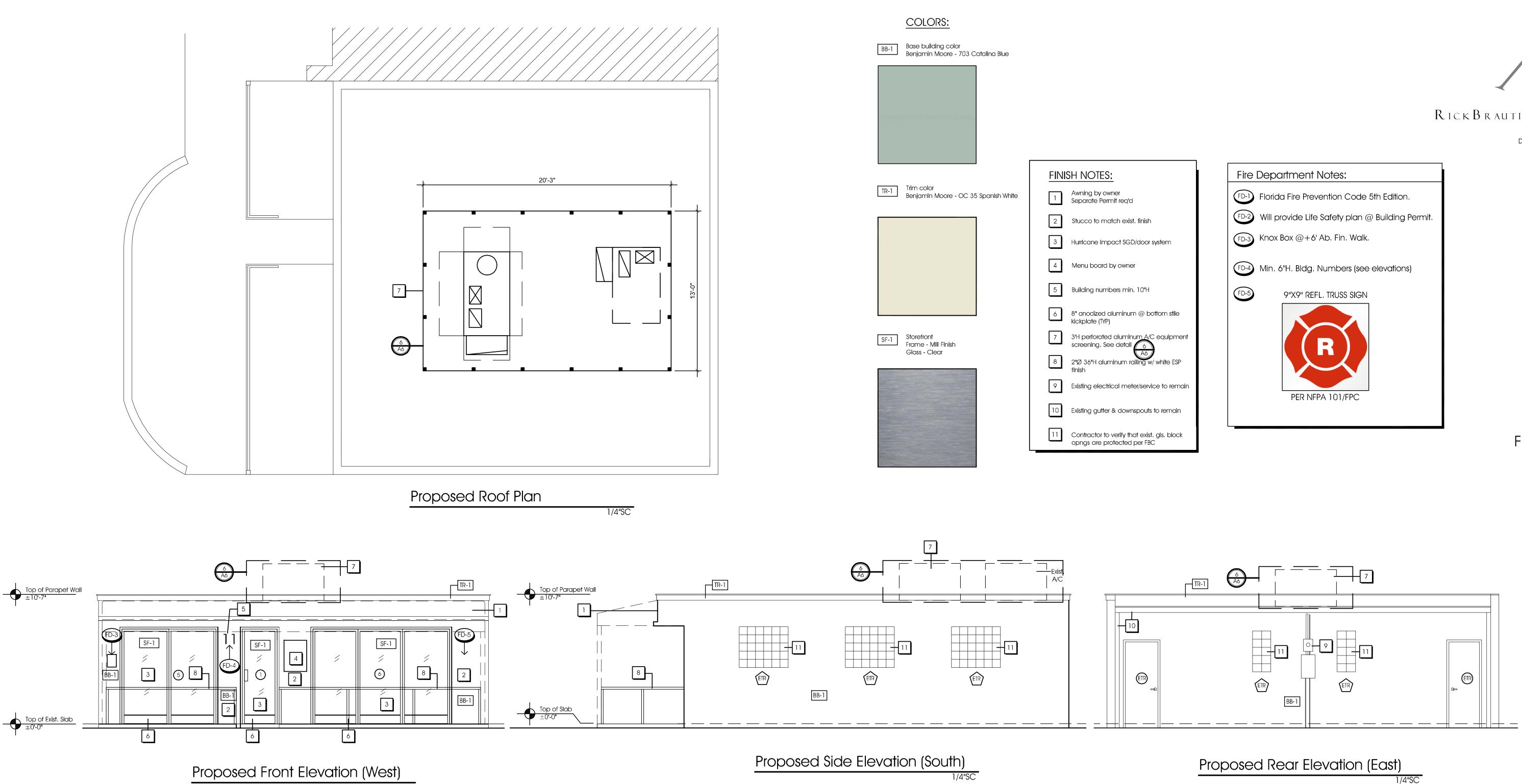


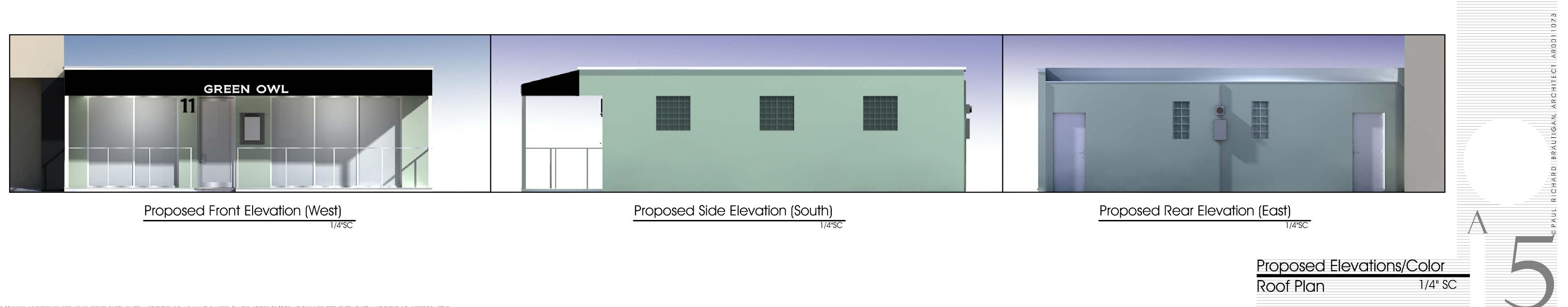


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1/4"SC





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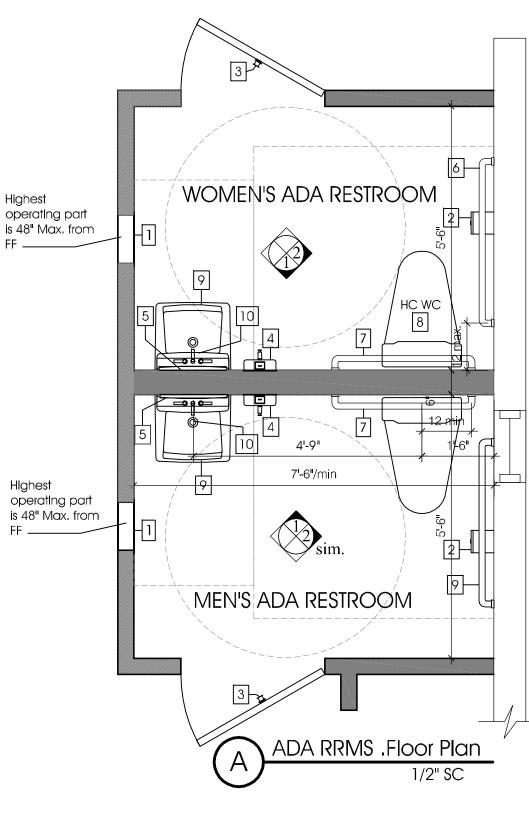
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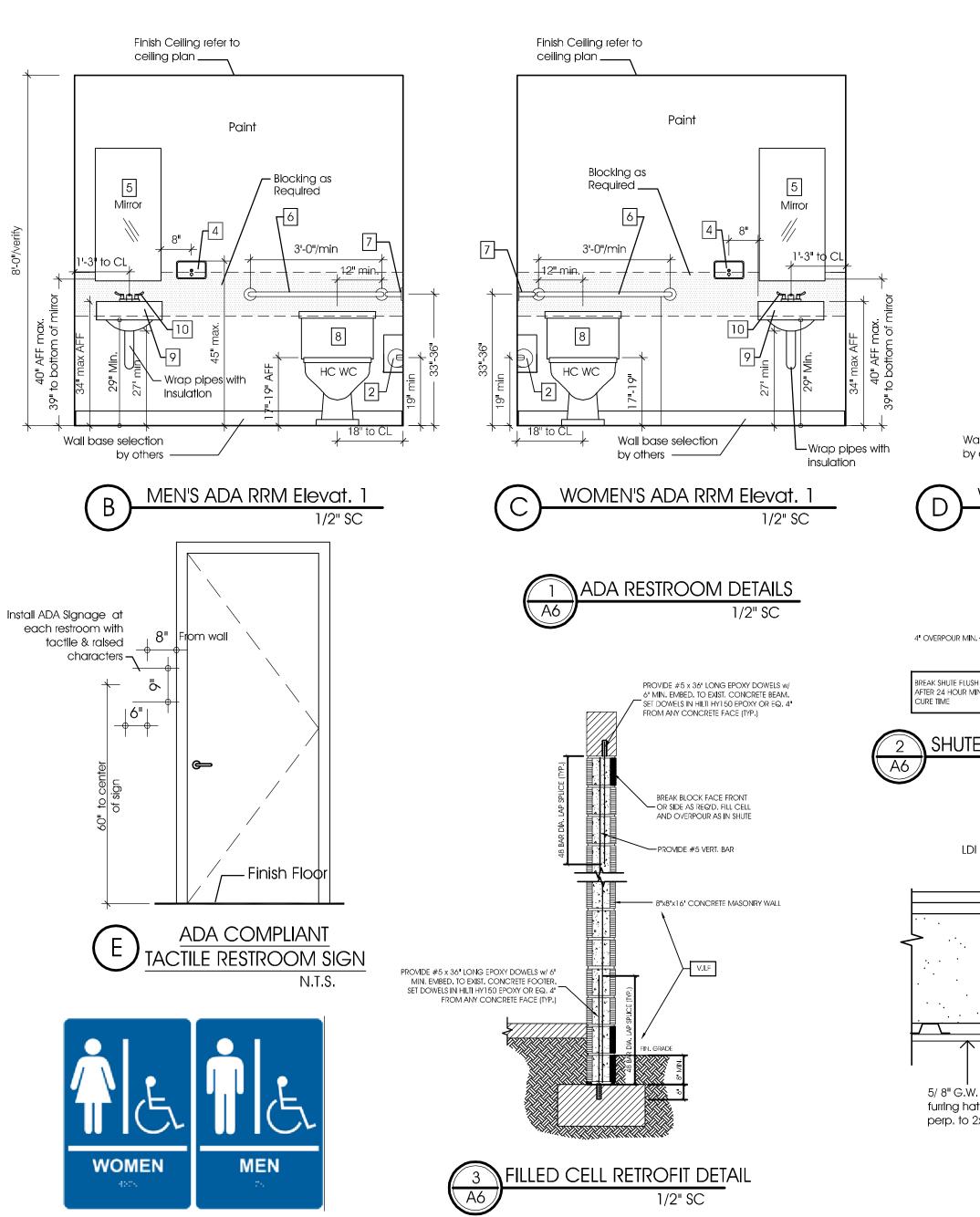
ssued Permit Set \bigcirc G.C. Bid Set \bigcirc ● 4/15/16:Review Set Note: all restrooms shall comply with FBC 1210.2.2: restroom walls shall have a smooth, hard and non absorbent finish to a height of 4' A.F.F.

	ADA Ba	th/Restroom	n Accessory & Plumbing Fixture Sch	nedule
ITEM	MFR.	MFR. NO.	ITEM DESCRIPTION	REMARKS
1	Bobrick	B-369	Classic series, recessed paper towel dispenser and waste receptacle.	Satin finish.
2	Bobrick	B-2888	Surface mounted multi-roll toilet tissue dispenser.	Satin finish.
3	Bobrick	B-76717	Single Robe Hook	Satin finish.
4	Bobrick	B-4111	Classic Series Surface-Mounted Soap dispenser	Satin finish.
5	Bobrick	B-293-1836	Tilt mirror with stainless steel frame.	18 " x 36"
6	Bobrick	B-6806 x 36	1-1/2" dia. stainless steel grab bars w/snap flange.	Satin finish.
7	Bobrick	B-6806 x 42	1-1/2" dia. stainless steel grab bars w/snap flange.	Satin finish.
8	American Standard	#2467.100 1.1gpf ADA	 "Cadet" Right Height Elongated pressure-assisted toilet. 1.1 gpf tank with locking device mod. #4142.601. 1.1 tank cover for locking device (opt) mod.#735133-40 	White
	American Standard	#5901.110	Standard Commercial Toilet Seat with EverClean surface color: white.	, white
9	American Standard	Lucerne 0355.012	Installed to comply with ADA. Grld drain. Include trap and concealed arms support. 4" center hole	es Chrome,
10	American Standard	Monterrey 5502.145	Two- handle centerset Lavatory Faucet with Lever Handles (4" center).	Stainless Steel
1				

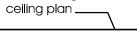




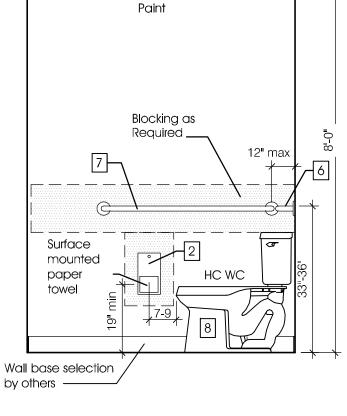
1. For installation details and backing requirements, refer to Mfgr. cut sheets and specs .recommendations. 2. For installation heights requirements, refer to Restrooms Elev., specially for the ADA required heights and clearances. 3. Contractor to notify the Architect in case of any discrepancy, before ordering the product. 4. G.C. to request shopdrawings from vendor for tollet partitions, for approval before ordering them.



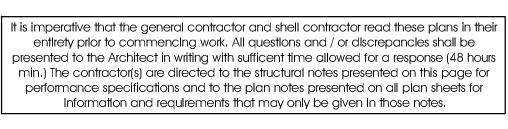
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Finish Ceiling refer to







STRUCTURAL NOTES

- 1. General Notes:
- A. All dimensions and conditions must be verified in the field. any discrepancies shall be brought to the attention of the architect before proceeding with the affected part of the work
- B. The structure is designed to be self-supporting and stable after the building is complete. It is the contractor's responsibility to determine erection procedures and sequence to insure safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting, temporary bracing, guys or tiedowns.

2. Concrete

- A. Shall be per an approved mix design proportioned to achieve a compressive strength of 3,000 PSI at 28 days with a plastic and workable
- B. Fly ash may be used in concrete mix design, although it shall be limited to 15% maxImum replacement of cement (by weight)

3. Masonry Walls:

- A. Masonry units shall meet ASTM C-90 for hollow load bearing type masonry with strength of 1,900 PSI on the net area (fm=1500 PSI) mortar shall be type "M" or "S" and meet ASTM C-270. Grout shall be 3,000 PSI minimum compressive strength and meet C-476. Grout shall be 3,000 PSI minimum compressive strength and meet C-476. Provide hooked dowels in footings for all vertical reinforcing above. lap splices 48 bar diameters.
- B. Dowels shall be used to provide continuity into the structure above and or below, unless noted otherwise. use metal lath, mortar, or special units to confine concrete and grout to area required.
- C. provide 9 gage galvanized horizontal joint reinforcing (Dur-O-Wall or engineer approved substitute) at alternate block courses. D. Filling of masonry cells with concrete shall be prohibited only mix
- designs proportioned for grouting masonry shall be approved E. Masonry walls, as depicted on these plans, have been designed in accordance with section 2122 of the Florida Building Code, and ACI 530; building code requirements for masonry structures and the
- specifications for masonry structures (ACI 530) F. All reinforced masonry (engineered unit masonry) shall be inspected per the requirements of the building code.

4. Formwork and Shoring:

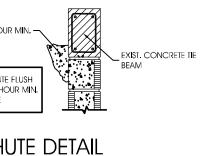
A. No structural concrete shall be stripped until it has reached at least two-thirds of the 28 days design strength. Design, erection and removal of all formwork, shores and reshores shall meet the requirements set forth In ACI standards 347 and 301.

5. Reinforcing Steel:

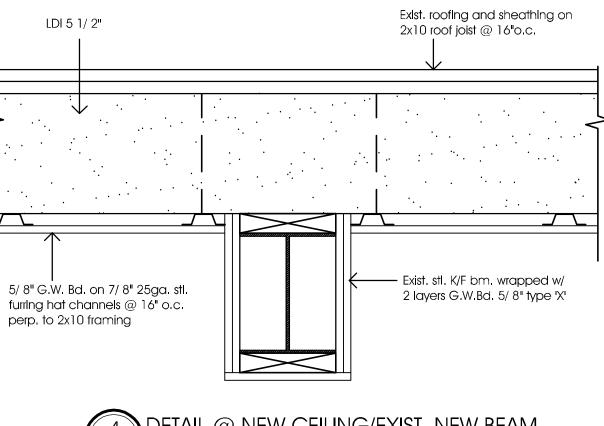
A. Shall be ASTM A615 grade 60 deformed bars, free oll, scale and rust and placed in accordance with the typical bending diagram and placing details of ACI standards and specifications. If desired, approval of shop drawings prior to commencement of fabrication may be secured under a separate contract with A.O.R. All bars to be welded shall be those specifically manufactured for welding purposes; certified welders w/ certificates only shall weld thesebars; inspector shall verify weldability and collect certificates.

6. Door Systems:

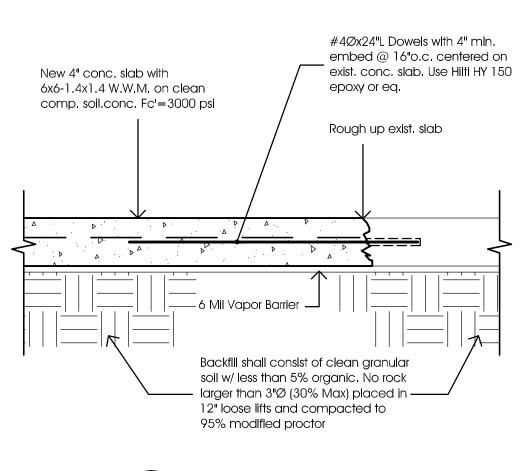
- A. All door system shall be designated as specialty engineered items and the design of these "systems" and their connections to the structure depicted on these plans shall be the responsibility of the supplier / specialty engineer. submit product approval information (or signed and sealed calc's) for approval prior to fabrication.
- B. unless indicated otherwise, the minimum buck sixes shall be 2" x 4" P.T. for windows and doors. C. All door systems shall be designed to safely resist the minimum wind
- pressures shown in these plans. Submit shop drawings and / or product approval verifying conformance.



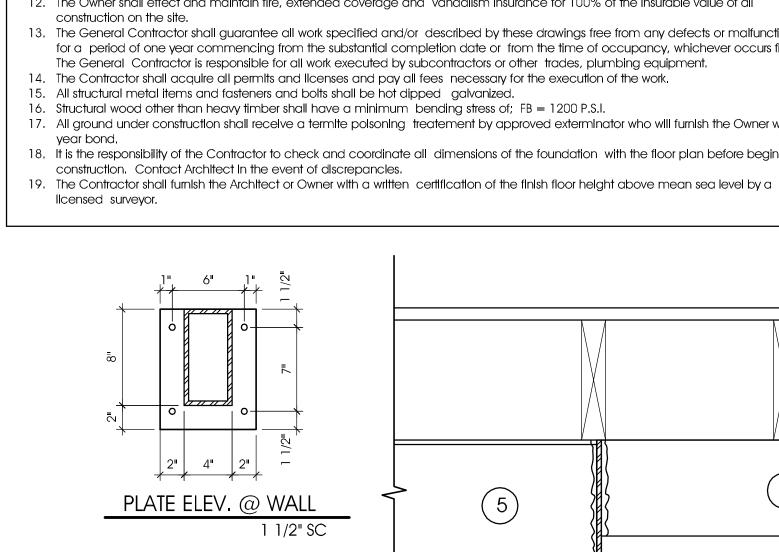
1/2" SC







SLAB REPAIR DETAIL 1 1/2" SC

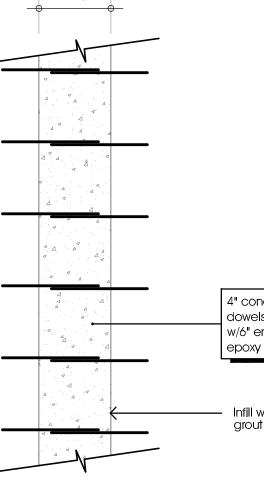


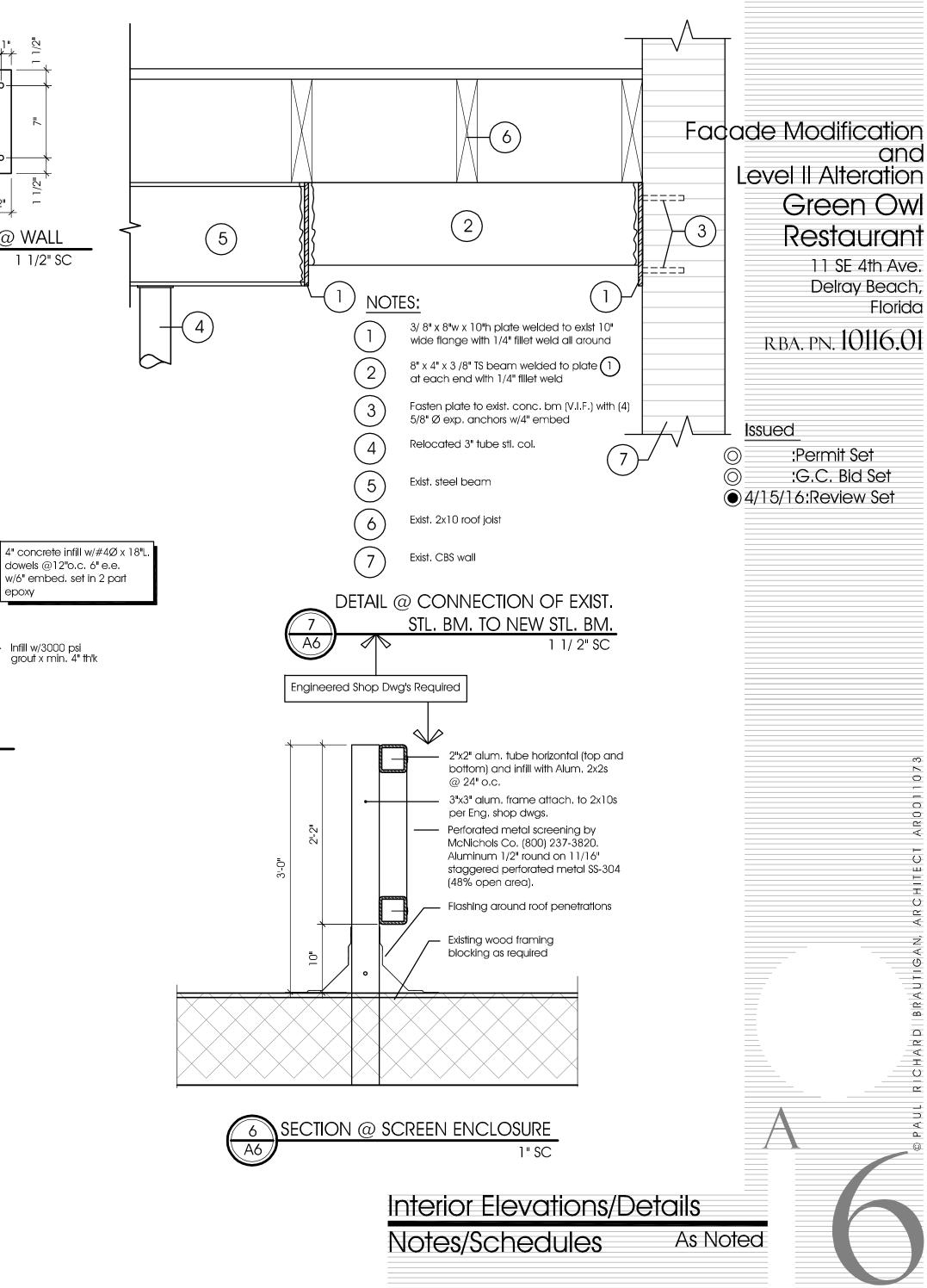
performing any of the work.

documents.

Contract).

project.







1 1/2" SC

GENERAL NOTES

The Architect will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the work, and he will not be responsible for the Contractors failure to carry out the work in accordance with the contract documents. The Architect will not be responsible for/or have control or charge over the acts or omissions of the Contractor, subcontractors, or any of their agents or employees, or any other persons

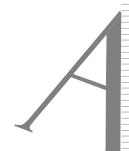
All codes having jurisdiction shall be observed strictly in the construction of the project, including all applicable state, city, and county building, zoning, electrical, mechanical, plumbing, fire codes. Contractor shall verify all code requirements and the construction

Errors and omissions which may occur in contract documents shall be brought to the attention of the Architect in writing and written Instructions shall be obtained before proceeding with the work. The Contractor will be held responsible for the results of any errors, discrepancies, or omissions which the Contractor failed to notify the Architect of before construction and /or fabrication of the work. Contractor and subcontractors are to verify all dimensions and job conditions at the job site sufficiently in advance of work to be performed to assure the orderly progress of work. Do not scale drawings. Architect shall be notified in writing, prior to commencing any work, of any errors or discrepancies in drawings or between prepared drawings and field conditions.

It is the purpose of these plans and specifications to describe a complete and finished project other than items marked "N.I.C." (Not in The Contractor shall maintain the premises clean and free of all trash, debris and shall protect all adjacent work from damage, solling,

paint overspray, etc. All fixtures, equipment, glazing, floors, etc. shall be left clean and ready for occupancy upon completion of the

- All work is to be done under the supervision of the General Contractor. All wood in contact with concrete or masonry or below finished floor is to be pressure treated.
- Interior partitions shall be 25 gauge steel studs @ 24" O/C with 5/8" gypsum board unless noted otherwise. 10. All materials and products used for and in construction are required to have applicable product control approval (NOA).
- 11. Contractor shall carry all necessary insurance as required by law and hold harmless the Owner or Architect from any loss, liability, claim or demand for damages arising out of or relating to the performance of the work as described by these drawings. 12. The Owner shall effect and maintain fire, extended coverage and vandalism insurance for 100% of the insurable value of all
- 13. The General Contractor shall guarantee all work specified and/or described by these drawings free from any defects or malfunctions for a period of one year commencing from the substantial completion date or from the time of occupancy, whichever occurs first, The General Contractor is responsible for all work executed by subcontractors or other trades, plumbing equipment. 14. The Contractor shall acquire all permits and licenses and pay all fees necessary for the execution of the work.
- 17. All ground under construction shall receive a termite poisoning treatement by approved exterminator who will furnish the Owner with a 1
- 18. It is the responsibility of the Contractor to check and coordinate all dimensions of the foundation with the floor plan before beginning



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PA	ACKAGE A/C UNIT SCHEE	DULE	MECHA	NICAL SYMBO	OLS (GENERAL)
UNIT DESIGNATION	RTU-2	RTU–1			
MANUFACTURER	EXISTING CARRIER	NEW JOHNSON CONTROLS			
MODEL NO.	EXISTING	J05ZEE05B2H2BAA4A1		ITEMS SHOWN DAS	SHED ARE EXISTING (UNLESS NOTED OTHERWISE)
SYSTEM TYPE	DX SYSTEM	DX SYSTEM			· · · ·
SEER/EER	13	14/11.8		(UNLESS NOTED C	'ES ITEMS TO BE REMOVED DTHERWISE)
NOMINAL TONS	3	5		+	DRAWINGS & SCHEDULES
TOTAL COOLING	36,000	60,500		KETED NUTES UN	DRAWINGS & SCHEDULES
NET SENSIBLE	EXISTING	34,100		REVISIONS	
WEIGHT LBS	EXISTING	623	[100]	ROOM NUMBERS	
AREA SERVED	KITCHEN	DINING			
		DINING			X = AIR DEVICE TYPE
FAN / COIL SEC	CIION		XXX		X = AIR DEVICE TYPE RMINAL TAGS _{XXX} = AIR QUANTITY (CFM)
TYPE		•			
TOTAL CFM	1,200	1,275	<u>XX-1</u>	EQUIPMENT TAGS	S (XX = MARKS BELOW)
OUTSIDE AIR CFM	240	470			DLING UNIT SF = SUPPLY FAN
ENT. AIR (°F)	EXISTING	81.4		AHU = AIR HAINLAS = AIR SEPA	
E.S.P (IN WG)	EXISTING	0.5		BO = BOILER	CWP = CONDENSER WATER PUMP
FAN MOTOR H.P.	EXISTING	1.5		CC = COOLING CH = CHILLER	COIL CHWP= CHILLED WATER PUMP HC = HEATING COIL
DRIVE	EXISTING	BELT		CT = COOLING	TOWER SL = STATIONARY LOUVER
VOLTAGE/PHASE	EXISTING	240/3/60		CU = CONDENSI	
COIL SIZE (SQ.FT.)	EXISTING	•		EDH = ELEC. DUEF = EXHAUST	CT HEATER CR = CONDENSATE RECEIVER FAN PRV = PRESSURE REDUCING VALVE
ROWS/FINS/INCH.	EXISTING	•		HE = HEAT EXC	CHANGER RHC = REHEAT COIL
HEATING CAPACI	TIES			P = PUMP EDH = ELEC. DU LVR = WALL LOU	HWP = HOT WATER PUMP CT HEATER FS = FLOW STATION IVER CS = CHEMICAL SHOT FEEDER
CAPACITY BTUH	EXISTING	18,100		EF = EXHAUST	
TYPE	EXISTING	ELECTRIC		RTU = ROOF TOF	P UNIT ACCH= AIR COOLED CHILLER
KW/VOLTAGE/PHASE	EXISTING	5/240/3		RF = RETURN F ET = EXPANSIO	
STAGES/KW EACH	EXISTING	1		PCU = PRE-COO	
CONTROL VOLT	EXISTING	· · · · · · · · · · · · · · · · · · ·	$\mathbf{\Theta}$	CONNECTION OF NEW	
FILTER SPECIFICA					
TYPE	EXISTING				
SIZE (2")	EXISTING		DESIGN	CRITERIA SC	HEDULE
QUANTITY	EXISTING	1	OUTSIDE DB	/WB (SUMMER)	92° / 78°F
CONDENSING SEC			OUTSIDE DB	(WINTER)	41°F
			INDOOR DES	IGN DB	75 ° F
TYPE					
REFRIGERANT	EXISTING	410A	INDOOR DES		50% (MAX.)
COMPR. NO. TYPE	EXISTING	1/SCROLL	VENTILATION		PER FLORIDA 2014 MECHANICAL CODE
COMPRESSOR FLA.	EXISTING		DUCT INSUL	ATION	MIN. R-8.0 SUPPLY & R-6 RETURN DUCT
VOLT/PHASE	EXISTING	240/3/60			
FAN: #/AMPS/VOLTS/Ø	EXISTING	1/-			
MCA *	EXISTING	28.7			
MOCP **	EXISTING	35			
WEIGHT (LBS)	EXISTING	623			
NOTES:					
2- PROVIDE 14" N.O 3- PROVIDE RTU-2 4- PROVIDE RTU-2 5- PROVIDE RTU-2 6- PROVIDE RTU-2	WITH MOTORIZED OUTSIDE AIR DAMPE D.A. 175 MPH RATED WIND CURB FOR WITH ZONE TEMPERATURE SENSOR WITH FACTORY INSTALLED DISCONNEC WITH PHASE MONITOR WITH PHASE MONITOR WITH GAL; BANIZED DRAIN PAN WITH COIL GUARD	RTU-2			

ITEM # MANUFACTURER	EF-1	EF-2
	GREENHECK	
MODEL MOUNTING	SP-B70	SP-B70
	CEILING	CEILING
AREA SERVED	BATH	BATH
		•
CONDITION OF SERVIC	E	
CFM	50	50
STATIC PRESSURE (W.G.)	0.25	0.25
RPM (MAX.)	675	675
TIP SPEED (MAX.)		•
DRIVE	T	
	X	X
V-BELT	•	•
FAN MOTORS	1	
WATTS	45	45
VOLTS	115	115
PHASE	1	1
CYCLE	60	60
MOTOR SPEEDS	•	•
TYPE OF MOTOR	•	•
SPECIAL FEATURES	1	
BIRD SCREEN (MATERIAL)	AL.	AL.
OPTIONS GAGE	•	•
MAT.(AL)(FIBR.GL.)(OTHER)	GALV. STL.	GALV. SIL.
SPECIAL COATING	•	•
BUILT IN DISCONNECT	. 1,2,3	1,2,3
NOTE:	1 1 2 3	I I.Z.J

	O	UTDOOR	AIR CALC	ULATION			
MARK	SPACE TYPE	SQFT	OCCUPANCY	VENTILATION RATE CFM/PERSON	VENTILATION RATE CFM/SQFT	MININUM OUTDOOR AIR REQUIRED	OUTDOOR AIR PROVIDED
RTU-1	DINING	522	44	7.5	0.18	424.0	470
RTU-2	KITCHEN	497	4	7.5	0.18	119.5	240
	TOTALS	1019				543.4	710.0
			5				

PROVIDED BY OWNER AND/OR ARCHITECT.

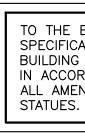
		AIR BALANCE	SCHEDUL	.E		
UNIT	0/A (+)	MAKEUP AIR (+)	E/A (-)	PRESSURE/CFM	R/A (-)	S/A (+)
RTU-1	470	_	_	(+) 470	430	1,275
RTU-2	240	_	_	(+) 240	960	1,200
EXHAUST HOOD	_	_	3,251	(-) 3,251	_	_
MAKEUP HOOD	_	2,601		(+) 2,601	_	-
BATHROOMS EXHAUST	_	_	100	(-) 100	_	_
TOTAL	(+) 710	(+) 2,601	(-) 3,351	(+) 110	(-) 1,390	(+) 2,475

TAGABCD1) AIR DEVICE SIZES & SCHEDULE AIRFLOW ARE AT THIS SCHEDULE UNLESSMANUFACTURERTITUSTITUSTITUSOTHERWISE NOTICED ON HVAC FLOOR PLANS.MODEL300 FL300 FL300 FL300 FL300 FLSUPPLY GRILESUPPLY GRILESUPPLY GRILERETURN GRILERETURN GRILECFM RANGE264 - 440170 - 2850-70-NECK SIZE (IN.)8"ø-5"ø-NECK SIZE (IN.)12x12/12x1212x8/14x106x6/6x624x24/24x24BLOW PATEERN(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)FRAME/BORDER TYPESURFACESURFACESURFACESURFACESURFACE FINISHWHITEWHITEWHITEWHITEMATERIALALUMINUMALUMINUMALUMINUMALUMINUMOPTIONS/ACCESSORIES0BD0BDNOTESSEE BELOWSEE BELOWSEE BELOWSEE BELOWSEE BELOWTESSEE BELOWSEE BELOWSEE BELOWSEE BELOWSEE BELOW			AIR DEVICE SCHEDULE			NOTES:
MADEIndsIndsIndsMODEL300 FL300 FL300 FL300 FL300 FLTYPESUPPLY GRILESUPPLY GRILERETURN GRILERETURN GRILE2) BRANCH & OPTIONAL BRANCH DUCT SIZES ARE AT THIS SCHEDULECFM RANGE264 - 440170 - 2850 -70-NECK SIZE (N.)8"ø-5"ø-MODULE SIZE (N.)12x12/12x1212x8/14x106x6/6x624x24/24x24BLOW PATTERN(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)FRAME/BORDER TYPESURFACESURFACESURFACESURFACESURFACESURFACESURFACESURFACESURFACEOPTIONS/ACCESSORIESOBDNOTESSEE DELOWSEE DELOWSEE DELOWSEE DELOW	TAG	A	В	С	D	1) AIR DEVICE SIZES & SCHEDULE AIRFLOW ARE AT THIS SCHEDULE UNLESS
TYPESUPPLY GRILLESUPPLY GRILLERETURN GRILLERETURN GRILLERETURN GRILLERETURN GRILLEDefinition of the construction of the construction.TYPESurfaceStep plowStep plowStep plowStep plowStep plowStep plowOPTIONS/ACCESSORIESOBDOPTIONS/ACCESSORIESOSE plowStep plowStep plowStep plowStep plowStep plowStep plowStep plowOPTIONS/ACCESSORIESOSE plowStep plowStep plowStep plowStep plowStep	MANUFACTURER	TITUS	TITUS	TITUS	TITUS	OTHERWISE NOTICED ON HVAC FLOOR PLANS.
CFM RANGE264 - 440170 - 2850 - 70-NECK SIZE (IN.)8"ø-5"ø-MODULE SIZE (IN.)12x12/12x1212x8/14x106x6/6x624x24/24x24BLOW PATTERN(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)FRAME/BORDER TYPESURFACESURFACESURFACESURFACE4) COORDINATE WITH ARCHITECT.SURFACE FINISHWHITEWHITEWHITE+MATERIALALUMINUMALUMINUMALUMINUMALUMINUMALUMINUMOPTIONS/ACCESSORIESOBDNOTESSEE DELOWSEE DELOWSEE DELOWSEE DELOWSEE DELOWSEE DELOWSEE DELOW	MODEL	300 FL	300 FL	300 FL	350 FL	2) BRANCH & OPTIONAL BRANCH DUCT SIZES ARE AT THIS SCHEDULE
NECK SIZE (IN.) 8"ø - 5"ø - 3) MAXIMUM PRESSURE DROP FOR ALL AIR DEVICES SHALL NOT EXCEED MODULE SIZE (IN.) 12x12/12x12 12x8/14x10 6x6/6x6 24x24/24x24 0.10 IN. W.C. BLOW PATTERN (REFER TO DRAWING) FRAME/BORDER TYPE SURFACE SURFACE SURFACE SURFACE SURFACE SURFACE FINISH WHITE WHITE WHITE WHITE + - MATERIAL ALUMINUM ALUMINUM ALUMINUM ALUMINUM ALUMINUM 6) ALL AIR DEVICES SHALL NOT EXCEED 20. OPTIONS/ACCESSORIES OBD - - - - - NOTES SEE PELOW SEE PELOW SEE PELOW SEE PELOW SEE PELOW SEE PELOW	TYPE	SUPPLY GRILLE	SUPPLY GRILLE	RETURN GRILLE	RETURN GRILLE	UNLESS OTHERWISE NOTICED ON HVAC FLOOR PLANS.
NUCK SIZE (IN.) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CFM RANGE	264 - 440	170 – 285	0-70	-	
MODULE SIZE (IN.)12x12/12x1212x8/14x106x6/6x624x24/24x24BLOW PATTERN(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)(REFER TO DRAWING)FRAME/BORDER TYPESURFACESURFACESURFACESURFACESURFACE FINISHWHITEWHITEWHITEWHITEMATERIALALUMINUMALUMINUMALUMINUMALUMINUMOPTIONS/ACCESSORIESOBDOBDNOTESSEE PELIOWSEE PELIOWSEE PELIOWSEE PELIOW	NECK SIZE (IN.)	8"ø	-	5"ø	-	1 3) MAXIMUM PRESSURE DROP FOR ALL AIR DEVICES SHALL NOT EXCEED
FRAME/BORDER TYPE SURFACE SURF	MODULE SIZE (IN.)	12x12/12x12	12x8/14x10	6x6/6x6	24x24/24x24	
SURFACE FINISH WHITE WHITE WHITE WHITE Standard Stand	BLOW PATTERN	(REFER TO DRAWING)	(REFER TO DRAWING)	(REFER TO DRAWING)	(REFER TO DRAWING)	4) COORDINATE WITH ARCHITECT.
SURFACE FINISH WHILE WHILE WHILE MATERIAL ALUMINUM ALUMINUM ALUMINUM ALUMINUM OPTIONS/ACCESSORIES OBD - - NOTES SEE RELOW SEE RELOW SEE RELOW	FRAME/BORDER TYPE	SURFACE	SURFACE	SURFACE	SURFACE	
OPTIONS/ACCESSORIES OBD - - NOTES SEE RELOW SEE RELOW SEE RELOW	SURFACE FINISH	WHITE	WHITE	WHITE	WHITE	5) MAXIMUM NC FOR ALL DEVICES SHALL NOT EXCEED 20.
OPTIONS/ACCESSORIES OBD - - OTHERWISE NOTICED. NOTES SEE BELOW SEE BELOW SEE BELOW SEE BELOW	MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	6) ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION UNLESS
NOTES SEE BELOW SEE BELOW SEE BELOW SEE BELOW SEE BELOW TO THE OW MALLIES ARE CIVEN FOR TERMINALS VELOCITIES OF 150, 100, 80	OPTIONS/ACCESSORIES	OBD	OBD	-	_	OTHERWISE NOTICED.
	NOTES	SEE BELOW	SEE BELOW	SEE BELOW	SEE BELOW	

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1. OCCUPANT DENSITIES AND VENTILATION RATES BASED ON TABLE 403.3 OF THE FLORIDA MECHANICAL CODE. ACTUAL OCCUPANCY BASED ON INFORMATION

MECHA	ANICAL ABBREVIATIONS	ſ
ACC	AIR COOLED CONDENSER	Ì
AHU	AIR HANDLER UNIT	
A/C	AIR CONDITIONING	
AFF	ABOVE FINISHED FLOOR	
	ACCESS PANEL	
		L
ATM.	ATMOSPHERE	[
BHP	BRAKE HORSE POWER	
BTU	BRITISH THERMAL UNIT	
CFM	CUBIC FEET PER MINUTE	
DB	DRY BULB	
dB	DECIBELS	
DDC	DIRECT DIGITAL CONTROL	
DN.	DOWN	
EAT	ENTERING AIR TEMPERATURE	
EDB	ENTERING DRY BULB TEMPERATURE	
E/A	EXHAUST AIR	
ESP	EXTERNAL STATIC PRESSURE	
EWB	ENTERING WET BULB TEMPERATURE	
EWT	ENTERING WATER TEMPERATURE	
FLA	FULL LOAD AMPS	
FPM	FEET PER MINUTE	
FPS	FEET PER SECOND	
GALV	GALVANIZED	
GPM	GALLONS PER MINUTE	
	HOSE BIBB	
HB		
HP	HORSE POWER	
HZ	HERTZ	
IN. W.G.	INCHES OF WATER GAUGE	
LAT	LEAVING AIR TEMPERATURE	
LDB	LEAVING DRY BULB TEMPERATURE	
LWB	LEAVING WET BULB TEMPERATURE	
LWT	LEAVING WATER TEMPERATURE	
MD	MOTORIZED DAMPER	
NC	NORMALLY CLOSED	
NK.	NECK	
NO	NORMALLY OPEN	
NTS	NOT TO SCALE	
OBD	OPPOSED BLADE DAMPER	
O/A	OUTDOOR AIR	
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	
PH.	PHASE	
PRV	PRESSURE REDUCING VALVE	
PSI	POUNDS PER SQUARE INCH	
PSIG	POUNDS PER SQUARE INCH (GAUGE PRESSURE)	
R/A	RETURN AIR	
RH	RELIEF HOOD	
RTU	ROOF TOP UNIT	
SF	SUPPLY FAN	
	SUPPLY AIR	
S/A SP	SUPPLY AIR STATIC PRESSURE	
TDE		
TEMP.	TEMPERATURE	
TSP	TOTAL STATIC PRESSURE	
-	TYPICAL	
TYP.		
TYP. VD	VOLUME DAMPER	



M0.1 M1.1 M2.1 M3.1

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MECHANICAL SHEET INDEX

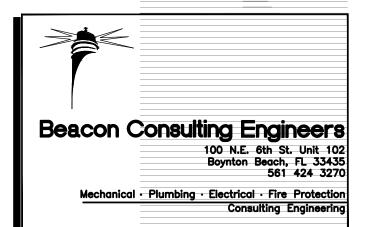
MECHANICAL LEGENDS, NOTES, SCHEDULES & SHEET INDEX
MECHANICAL FLOOR & ROOF PLAN
MECHANICAL DETAILS
MECHANICAL SPECIFICATIONS

CH	ANICAL SYMBOLS (HVAC)
	TYP. SUPPLY AIR CEILING DIFFUSER. SHADING INDICATES BLOCKED QUADRANT(S) FOR 1, 2 OR 3-WAY BLOW.
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
}	EXHAUST FAN
	SIDEWALL REGISTER/GRILLE
	FLEXIBLE DUCT (10 FT. MAX. LENGTH)
	RIGID ROUND DUCTWORK TO DIFFUSER HUMIDITY SENSOR
	WALL MOUNTED TEMPERATURE SENSOR
	WALL MOUNTED COMB. TEMPERATURE & HUMIDITY SENSOR
	WALL MOUNTED CARBON DIOXIDE SENSOR
Ŧ	DUCT MOUNTED TEMPERATURE SENSOR
	FIRE DAMPER
T-T	45° SIDE TAKEOFF FITTING TO DIFFUSER, WITH MANUAL VOLUME DAMPER. OUTLET DIAMETER OF FITTING IS EQUAL TO DIFFUSER NECK.
	DUCT SIZE DESIGNATION. SIDE SHOWN IS FIRST DIMENSION. SIZE SHOWN IS INTERNAL CLEAR OPENING. SHEET METAL SIZE MUST BE INCREASED FOR INTERNAL INSULATION WHERE SPECIFIED. (Ø= ROUND D& T, = FLAT OVAL DUCT)
4 1/1	TURNING VANES (NUMBER OF VANES SHALL BE BASED ON ACTUAL DUCT SIZE, NOT ON SCHEMATIC SYMBOL ON DRAWING)
	RETURN, EXHAUST OR OUTSIDE AIR DUCT
	DISCHARGE OR SUPPLY DUCT
ļ	FLEXIBLE DUCT CONNECTION
	VOLUME DAMPER (MANUAL)
	MOTORIZED CONTROL DAMPER
	ANGLED DROP IN DUCT
	ANGLED RISE IN DUCT
\geq	SPACE RELATIVE PRESSURE RELATIONSHIP. LACK OF SYMBOL INDICATES NEUTRAL PRESSURE.
E: N	IOT ALL SYMBOLS USED



RCHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> P h: 5 6 1.2 7 2.9 0 8 6 F x: 5 6 1.2 7 2.5 6 3 6 A A C 0 0 2 0 2 9



Level II Alteration Green Owl Restaurant 11 SE 4th Ave. Delray Beach, Florida r ba, pn. 10116**.**01

Issued Date:

AS NOTED

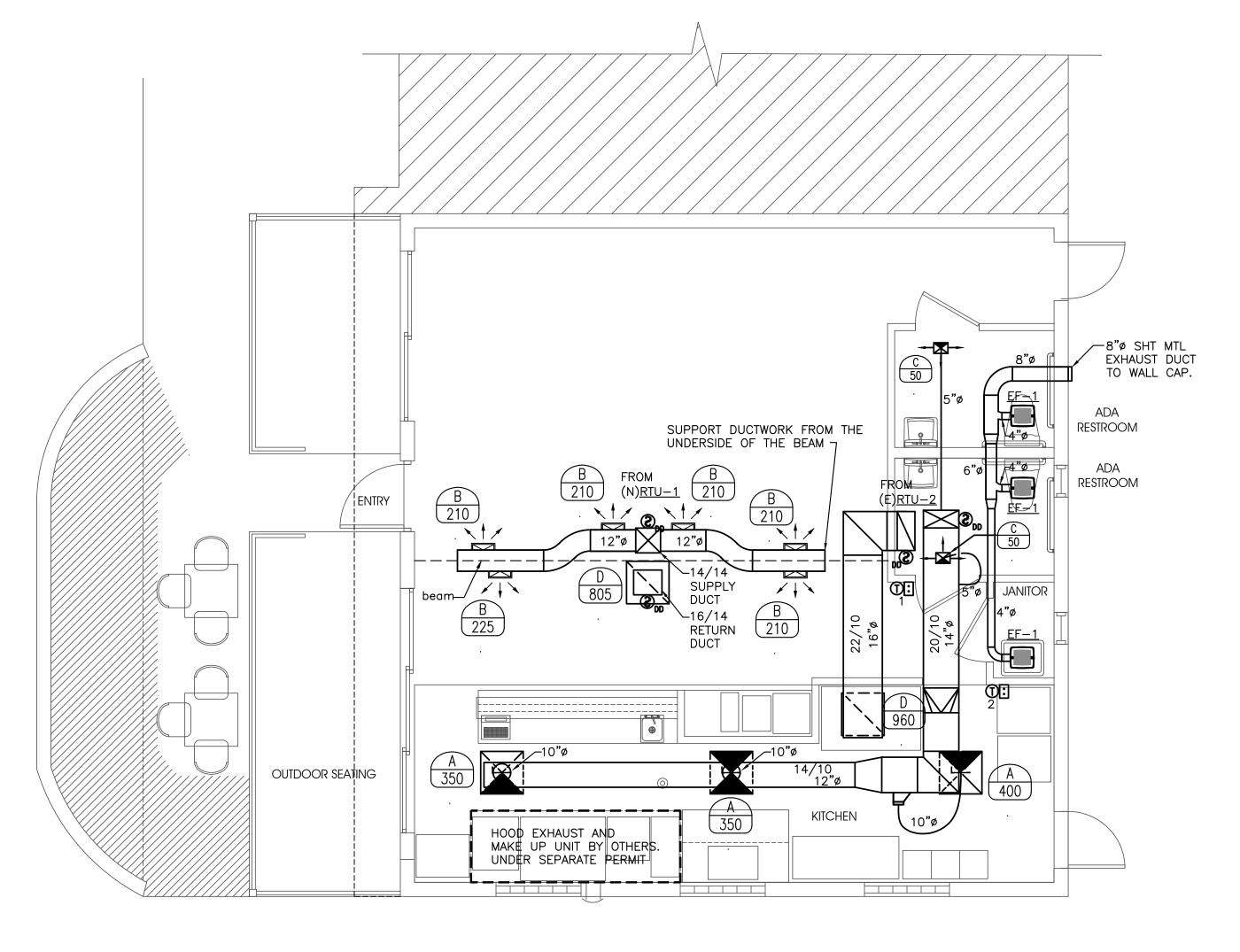
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PROGRESS SET/NFC 03/04/2016

MECHANICAL NOTES

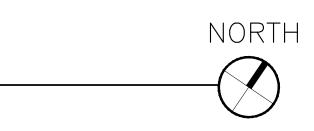
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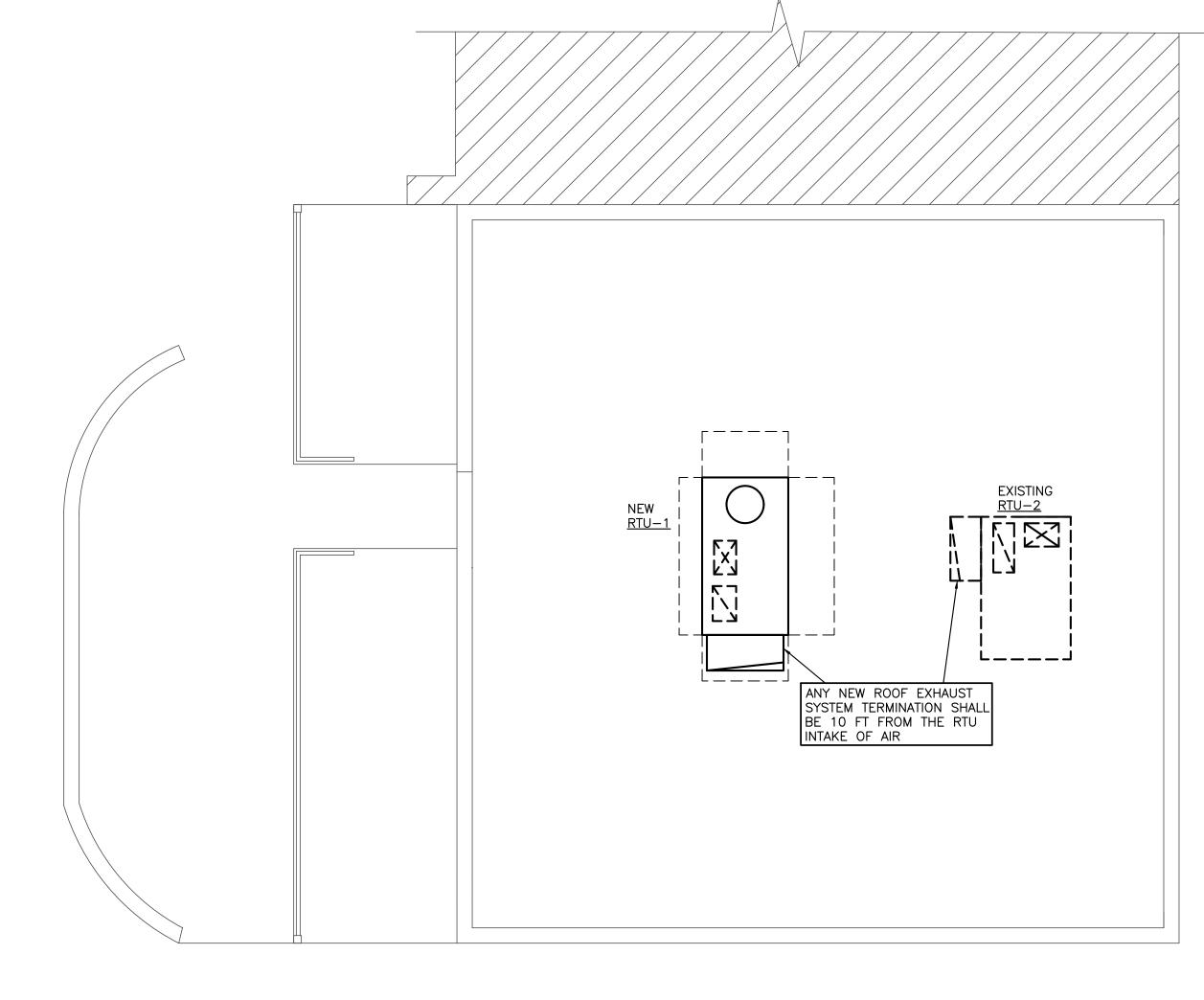
Richard Tavares P.E Florida Reg. No. 73704



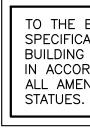
MECHANICAL FLOOR PLAN SCALE: 1/4" = 1'-0"

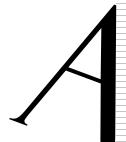
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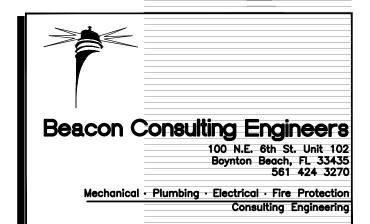
MECHANICAL ROOF PLAN SCALE: 1/4" = 1'-0"





RCHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> P h: 5 6 1.2 7 2.9 0 8 6 F x: 5 6 1.2 7 2.5 6 3 6 A A C 0 0 2 0 2 9

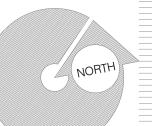


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Issued Date:

Richard Tavares P.E Florida Reg. No. 73704

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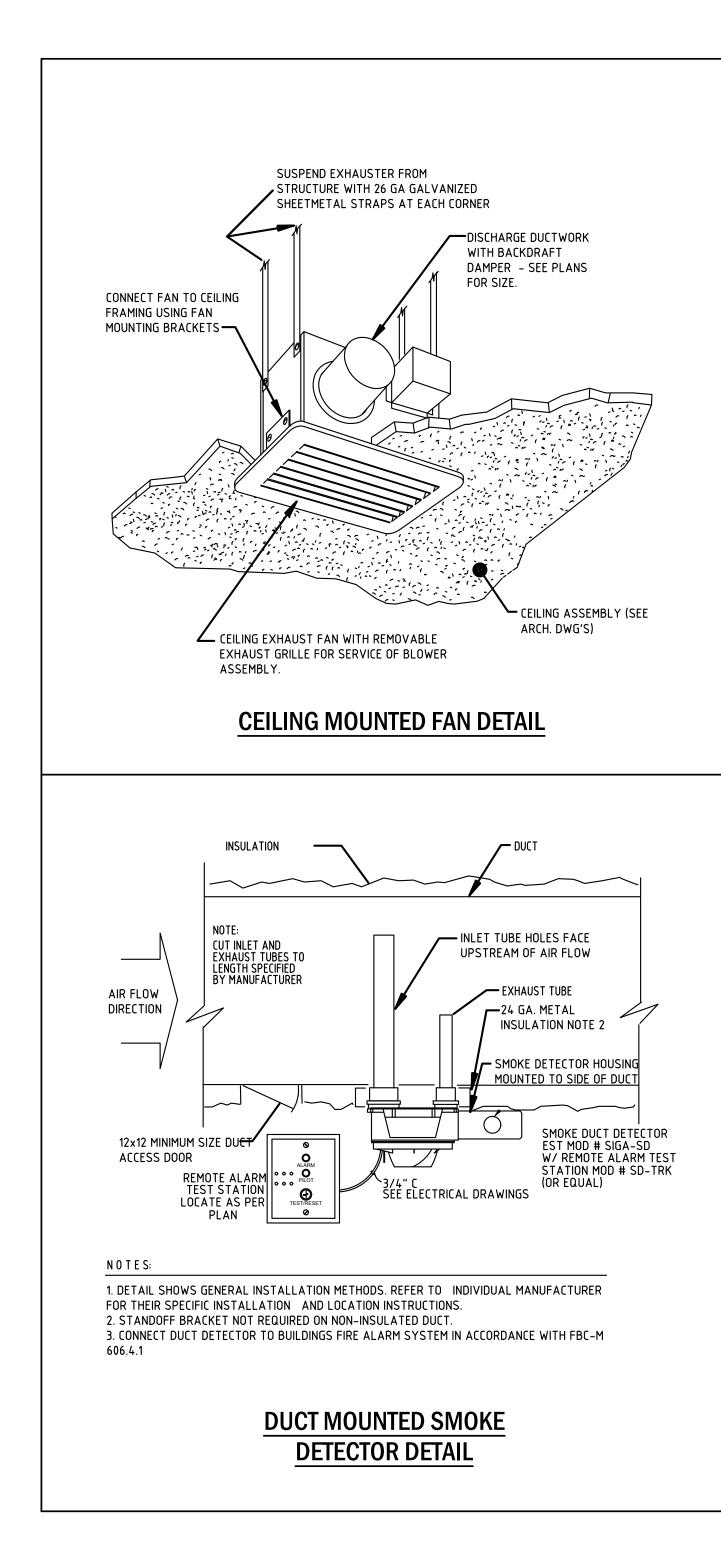
MECHANICAL PLANS

NORTH

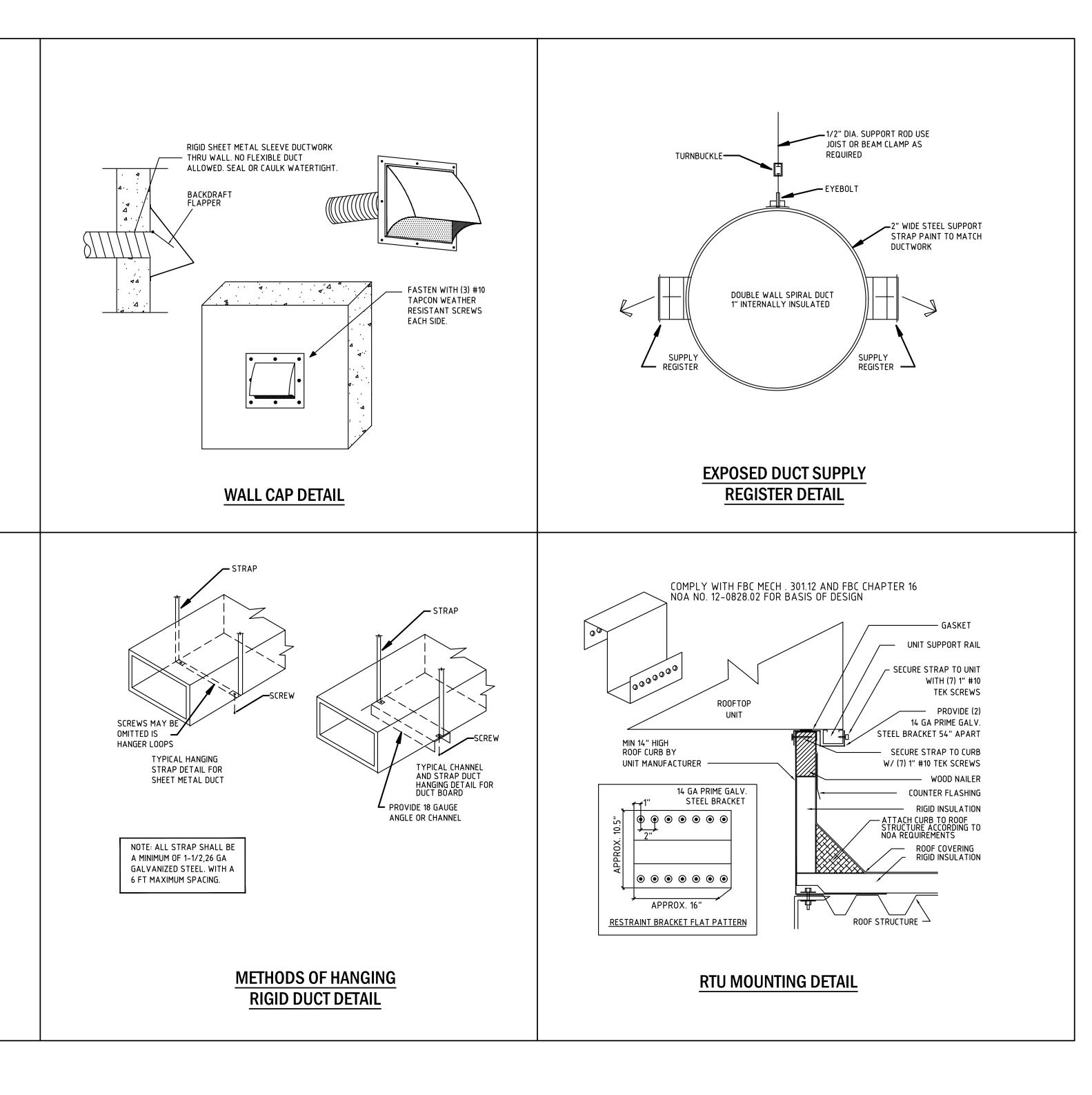
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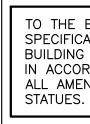
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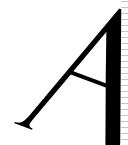
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RCHITECTURE

RICKBRAUTIGAN 102<u>5SDixie Highway</u> Delra<mark>y Beach, FL 33483</mark> Ph: 561.272.9086 F x: 5 6 1.2 7 2.5 6 3 6 <u>AAC002029</u>

Beacon Consulting Engineers 100 N.E. 6th St. Unit 102 Boynton Beach, FL 33435 561 424 3270 Mechanical • Plumbing • Electrical • Fire Protection Consulting Engineering

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MECHANICAL DETAILS AS NOTED

PROGRESS SET/NFC 03/04/2016

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Richard Tavares P.E – Florida Reg. No. 73704 –

15010 – BASIC MECHANICAL REQUIREMENTS

- A. CODES & REFERENCES
- 1. FLORIDA BUILDING CODE 2010 (WITH AMENDMENTS).
- 2. SMACNA
- 3. NFPA 101 4. NFPA 90A
- 5. NFPA 99
- B. SCOPE OF WORK
- 1. PROVIDE ALL REQUIRED PERMITS, LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE SCOPE OF THE PROJECT SHOWN ON THE DRAWINGS AND READY FOR OCCUPANCY AND USE BY OWNER. THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO:
- REMOVAL, RELOCATION AND RE-INSTALLATION OF EXISTING EQUIPMENT AND а. SYSTEM.
- b. CONNECTIONS TO EXISTING OR NEW EQUIPMENT AND SYSTEMS.
- CUTTING AND PATCHING TO REMOVE EXISTING OR INSTALL NEW WORK.
- CLEANING AND TESTING. d.
- INSTRUCTION TO OWNER'S PERSONNEL.
- 2. ALL REMOVAL WORK AND DISRUPTIONS OF EXISTING SERVICES SHALL BE COORDINATED AND SCHEDULED IN ADVANCE WITH OWNER'S REPRESENTATIVES.
- 3. PROVIDE ALL BUILDING PENETRATIONS REQUIRED TO COMPLETE PROJECT. ALL PENETRATIONS TO BE PATCHED AND SEALED TO BE WATERTIGHT. MAINTAIN FIRE RATINGS OF EXISTING STRUCTURE.
- 4. PROVIDE ALL NECESSARY DUCT, EQUIPMENT AND PIPE SUPPORTS AND MATERIALS REQUIRED FOR INSTALLATION. PER THE REQUIRMENTS OF LOCAL, STATE OR FEDERAL CODES.
- 5. NOT ALL COMPONENTS REQUIRED ARE INDICATED ON THESE DRAWINGS. REFER TO MANUFACTURERS INSTRUCTIONS FOR ADDITIONAL REQUIRMENTS INCLUDING CONNECTION LOCATIONS, TYPES AND SIZES. PROVIDE ISOLATING VALVES AND UNIONS AT ALL EQUIPMENT CONNECTIONS.
- C. REQUIRED SHOP DRAWINGS
- 1. INSULATION.
- 2. AIR DEVICES.
- 3. DUCTWORK COORDINATION DRAWINGS
- CONTROLS.
- 5. ROOF TOP UNITS 6. THERMOSTATS.
- 7. FANS.
- 8. FILTERS
- D. MAINTENANCE MANUALS
- 1. PROVIDE MAINTENANCE MANUALS FOR ALL NEW EQUIPMENT CONTAINING ALL OPERATING AND MAINTENANCE DATA, SUBMITTALS, WARRANTEES, DIAGRAMS, AHRI CERTIFICATES, INSPECTION REPORTS AND VALVE LISTS IN A 3 RING BINDER WITH POCKETS FOR DRAWINGS. PROVIDE OWNER WITH 2 COPIES.
- 2. PROVIDE AN INDEX INSIDE THE BINDER COVER WITH A LIST OF EACH EQUIPMENT ITEM. EACH ITEM SHALL BE INDIVIDUALLY TABBED.
- 3. PROVIDE A LIST OF ALL REQUIRED REGULAR MAINTENANCE ACTIONS.
- 4. MAINTENANCE LIST SHALL REFERENCE TABULATED ITEM AND SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.

E. AS-BUILT DRAWINGS

- 1. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE TO THE CONTRACT DOCUMENTS (AS-BUILT).
- 2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER 2 SETS OF COMPLETED AS-BUILT DRAWINGS.
- 3. THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ACCURATE AS-BUILTS ARE DELIVERED.
- F. SUBSTITUTIONS
- 1. EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS "SPECIFIED STANDARD" OF QUALITY. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER 10 DAYS PRIOR TO BID DATE.
- 2. ANY DEVIATION FROM SPECIFIED EQUIPMENT THAT AFFECTS THE ELECTRICAL REQUIREMENTS SHALL BE COORDINATED BY THE MECHANICAL CONTRACTOR AND EQUIPMENT VENDOR WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING BIDS.
- WIND LOADS
- 1. ALL EQUIPMENT TO BE MOUNTED OUTSIDE SHALL BE FURNISHED WITH A NOA (NOTICE OF ACCEPTANCE) FOR WINDSTORM OR BE FURNISHED WITH AN ENGINEERED DETAIL GOOD FOR THE LOCAL WIND RATE.

15050 - BASIC MATERIALS AND METHODS

- A. ACCESS PANELS FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR.
- 1. PROVIDE FOR ACCESS TO ALL SERVICEABLE EQUIPMENT IN WALLS AND CEILINGS.
- 2. MICOR STYLE M FOR DRYWALL.
- 3. MICOR STYLE K FOR PLASTER.
- 4. MINIMUM SIZE 16"x16".
- 5. NYSTROM, KARP, J.L. INDUSTRIES OR WILLIAMS PAINT.
- B. LABELING
- 1. PROVIDE RIGID PLASTIC EMBOSSED EQUIPMENT NAMETAGS FOR ALL NEW EQUIPMENT AND DISCONNECTS. SETON NAMEPLATE CORPORATION.
- 2. PAINT ALL MECHANICAL PIPING IN EQUIPMENT ROOMS, BOILER ROOMS AND WHERE EXPOSED OR OUTDOORS. MATCH EXISTING COLOR CODES USED ON SIMILAR SYSTEMS.
- C. FLASHING AND COUNTER FLASHING
- 1. FURNISH MATERIALS AND COORDINATE INSTALLATION FOR ALL PENETRATIONS OF ROOF BY ALL DUCT AND PIPE.

3. NO MATERIALS OR SYSTEMS ARE TO BE FARRICATED LINTIL : A) ALL DIMENSIONS HAVE BEEN VERIFIED BY CONTRACTOR B) SHOP DRAWINGS HAVE BEEN REVIEWED AND ACCEPTED BY THE ARCHITECT

DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER ALL SCALED DIMENSIONS. 2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ADVISE ARCHITECT OF ANY DISCREPANCIES. CONSTRUCTION SHALL NOT PROCEED UNTIL SAID DISCREPANCIES HAVE BEEN RESOLVED

- 2. SHEET METAL 24ga. ASTM A525
- 3. SHEET LEAD 6 lbs PER SQ. FT. (WHERE ALLOWED)
- 4. STAINLESS STEEL 20 ga. ALL DESIGNS, CONCEPTS, AND IDEAS CONTAINED AND REPRESENTED HEREIN ARE THE PROPERTY OF RICK BRAUTIGAN ARCHITECTURE, INC. AND MAY NOT BE ALTERED, CHANGED, MODIFIED OR COPIED WITHOUT THE PERMISSION OF RICK BRAUTIGAN ARCHITECTURE, INC. EXPRESSED IN WRITING.

- 1. CLEAN AND TOUCH UP ALL FACTORY FINISHES. 2. FLUSH ALL HVAC SYSTEMS BEFORE CONNECTION TO EQUIPMENT.
- E. CLEANING TESTING AND ADJUSTING
- 1. THE MECHANICAL CONTRACTOR, AT HIS EXPENSE, SHALL CLEAN CHECK, BALANCE AND PLACE IN SERVICE THE VARIOUS SYSTEMS WITH THEIR RESPECTIVE EQUIPMENT, ACCESSORIES AND PIPING. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS REQU TESTS REQUIRED BY THESE SPECIFICATIONS AND BY THE GOVERN
- 2. NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY IN TESTED.
- F. HANGERS AND SUPPORTS
- 1. PROVIDE ALL NECESSARY DUCTWORK, PIPE SUPPORTS, HANGER AND ATTACHMENTS TO PROPERLY INSTALL AND SUPPORT DUCT EQUIPMENT FROM THE BUILDING STRUCTURE.
- 2. PROVIDE ANY ANGLE IRON OR UNISTRUT AND SUSPENSION RODS EQUIPMENT, PIPING AND DUCTWORK.
- ALL SUPPORTS EXPOSED TO OUTDOORS SHALL BE CLEANED, PRIM PREVENT RUSTING. FINISH COLOR AS SELECTED BY OWNER.
- 4. THE USE OF BALING WIRE OR PERFORATED METAL STRAPPING IS SUPPORTS.
- G. WARRANTY/GUARANTEE
- 1. THE CONTRACTOR SHALL WARRANTY/GUARANTEE AND MAINTAI WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND PERIOD OF ONE YEAR.
- 2. DEFECTS OF ANY KIND DUE TO THE FAULTY WORK OR MATERIALS DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MA THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFAC OWNER AND ENGINEER. SUCH RECONSTRUCTION AND REPAIRS SHA DAMAGE TO THE FINISH OR FURNISHING OF THE BUILDING RESULT ORIGINAL DEFECT OR REPAIR THERETO.

15103 - SLEEVES

- A. SLEEVES TO BE 18 GAGE SHEET METAL OR SCHEDULE 40 PIPE. S FOLLOWING
- 1. MASONARY WALLS SLEEVE ALL PIPE PENETRATIONS.
- 2. FLOORS SLEEVE ALL HVAC PIPING. EXTEND SLEEVES 1/2 " ABO\ (2" ABOVE FINISHED FLOORS IN MECHANICAL ROOMS).
- 3. FIRE RATED DRY WALL PARTITIONS SLEEVE
- 4. NON-FIRE RATED PARTITIONS NO SLEEVES REQUIRED. SEAL WAL 5. USE U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU RATE

15242 – VIBRATION ISOLATION

- A. ACCEPTABLE MANUFACTURERS:
- 1. MASON INDUSTRIES.
- KINETICS NOISE CONTROL.
- KORFUND.
- 4. AMBER BOOTH.
- B. MASON TYPE SLF CONTROL AIR COMPRESSOR
- MASON TYPE HS CEILING SUSPENDED FANS
- 15250 INSULATION
- A. INSULATION, ADHESIVES, COATINGS, SEALERS, TAPES, ETC. SPREAD OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LES WITH ASTM E-84, NFPA 225, UL 723 AND MEET THE REQUIREME ALL INSULATING R-VALUES TO MEET THE REQUIREMENTS OF THE CODE.
- B. FIBERGLASS PIPE INSULATION, JOHNS MANVILLE MICRO-LOK 850 KNAUF, OWENS CORNING. JACKET: ASJ KRAFT PAPER WITH AL
- C. FLEXIBLE ELASTOMERIC INSULATION, ARMSTRONG "AP ARMAFL RUBATEX :
- 1. CONDENSATE DRAINS 3/4 " THICK.
- 2. REFRIGERATION MACHINE EVAPORATOR 2 LAYERS 3/4 " THI 3. REFRIGERATION SUCTION LINES: 3/4 "THICK

- THE PIPE.
- 6. CONTACT MANUFACTURER FOR ALTERNATIVE PRODUCTS.
- D. BLANKET TYPE DUCT INSULATION, JOHNS MANVILLE, CERTAINT CORNING, MINIMUM R=6.0, FOIL FACED KRAFT VAPOR BARRIER :
- E. SEMI RIGID BOARD TYPE DUCT INSULATION 1.51b DENSITY, CERT JOHNS MANVILLE, KNAUF, OWENS CORNING:
- F. 1. ALL SUPPLY, RETURN AND OUTSIDE AIR WHERE EXPOSED.

5. FLAME SPREAD: LESS THAN 25

6. SMOKE DEVELOPED: LESS THAN 50

- 2. MINIMUM DUCT INSULATION THICKNESS AND R VALUES ARE AS F
- SUPPLY AND RETURN AIR IN UNCONDITIONED SPACE: 2"
- SUPPLY AND RETURN AIR IN CONDITIONED INTERIOR SPACE
- OUTSIDE AIR: 2" (R-6 MIN.) SUPPLY AIR IN CEILING RETURN AIR PLENUM: 1.5" (R-4.2

. TEMPERATURE RANGE: MINUS 20 TO PLUS 210 DEG F.

- RETURN AIR IN CEILING RETURN AIR PLENUM: NOT REQUIR
- DUCTWORK OUTSIDE OF BUILDING: 3" (R-8 MIN.)

INSULATION R-VALUE: COMPLY WITH ASHRAE/IESNA 90.1, R-6 MINIMUM.

D.	MECHANICAL SYSTEMS CLEANING	B. CONNECT FLEXIBLE DUCTS TO METAL DUCTS, DIFFUSERS, OR TAKE-OFFS WITH DRAW BANDS AND PRESSURE	В.
	 CLEAN AND TOUCH UP ALL FACTORY FINISHES. FLUSH ALL HVAC SYSTEMS BEFORE CONNECTION TO EQUIPMENT. 	SENSITIVE TAPE. C. COMPLY WITH FMC SECTION 603, DUCT CONSTRUCTION AND INSTALLATION.	1.
Ξ.	CLEANING TESTING AND ADJUSTING	D. SPLICING OF TWO OR MORE SECTIONS SHALL NOT BE PERMITTED. DO NOT EXCEED CENTERLINE BEND RADIUS OF	2. 3.
	1. THE MECHANICAL CONTRACTOR, AT HIS EXPENSE, SHALL CLEAN, REPAIR, ADJUST,	1.5 X DIAMETER. TRIM DUCTS TO PROPER LENGHTS AND DO NOT ALLOW DUCTS TO SAG. E. DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS IN ACCORDANCE WITH THE REQUIREMENTS OF FMC	4. 5.
	CHECK, BALANCE AND PLACE IN SERVICE THE VARIOUS SYSTEMS HEREIN SPECIFIED WITH THEIR RESPECTIVE EQUIPMENT, ACCESSORIES AND PIPING. HE/SHE SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS REQUIRED TO PERFORM	SECTIONS 603.10.1 THROUGH 603.10.3, OR BY OTHER APPROVED DUCT SUPPORT SYSTEMS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. FLEXIBLE DUCTS SHALL BE CONFIGURED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PREVENT DUCT DISLOCATION OR DAMAGE, AND PREVENT CONSTRICTION OF THE DUCT BELOW THE RATED DUCT DIAMETER IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:	C. 1.
2	TESTS REQUIRED BY THESE SPECIFICATIONS AND BY THE GOVERNING AUTHORITIES. 2. NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY INSPECTED AND TESTED.	1.DUCTS SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5 PERCENT OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN.	2.
	HANGERS AND SUPPORTS	2. BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER.3. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT. 4. HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN	
1	PROVIDE ALL NECESSARY DUCTWORK, PIPE SUPPORTS, HANGERS, RODS, CLAMPS AND ATTACHMENTS TO PROPERLY INSTALL AND SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM THE BUILDING STRUCTURE.	SUPPORTS SHALL NOT EXCEED 1/2 INCH (12.7 MM) PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1–1/2 FEET OF INTERMEDIATE FITTINGS AND BETWEEN INTERMEDIATE FITTINGS AND BENDS. CEILING JOISTS AND RIGID DUCT OR EQUIPMENT MAY BE CONSIDERED TO BE SUPPORTS. 5. VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT INTERVALS NOT GREATER THAN 6 FEET.	
2	PROVIDE ANY ANGLE IRON OR UNISTRUT AND SUSPENSION RODS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK.	6. HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL	
	 ALL SUPPORTS EXPOSED TO OUTDOORS SHALL BE CLEANED, PRIMED AND PAINTED TO PREVENT RUSTING. FINISH COLOR AS SELECTED BY OWNER. THE USE OF BALING WIRE OR PERFORATED METAL STRAPPING IS NOT PERMITTED FOR 	THE MATERIAL SUPPORTING FLEXIBLE DUCT THAT IS IN DIRECT CONTACT WITH IT BE LESS THAN 1-1/2 INCHES WIDE. 15890 – SHEETMETAL DUCTWORK	
~	SUPPORTS.	A. ALL DUCT TO BE INSTALLED ACCORDING TO LATEST SMACNA STANDARDS.	
ن. ۱	WARRANTY/GUARANTEE	B. ALL EXPOSED DUCT WORK SHALL BE DOUBLE WALL INTERNALLY INSULATEDC. ALL SYSTEMS TO BE LEAKAGE TESTED.	
I	WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION OF THE PERIOD OF ONE YEAR.	15910 – SHEETMETAL ACCESSORIES	4.
2	DEFECTS OF ANY KIND DUE TO THE FAULTY WORK OR MATERIALS APPEARING		5.
	DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE	A. AIR INLETS AND OUTLET.1. REFER TO SCHEDULE.	PART 2 – PR
	OWNER AND ENGINEER. SUCH RECONSTRUCTION AND REPAIRS SHALL INCLUDE DAMAGE TO THE FINISH OR FURNISHING OF THE BUILDING RESULTING FROM THE	2. ALL ALUMINUM CONSTRUCTION.	ROOFTOP EQ
	ORIGINAL DEFECT OR REPAIR THERETO.	 ACCEPTABLE MANUFACTURERS: TITUS, PRICE, METAL-AIRE, CARNES, ANEMOSTAT, NAILOR. 	A 1.
SLE	EVES	B. FLEXIBLE DUCTWORK	2. 3.
4 .	SLEEVES TO BE 18 GAGE SHEET METAL OR SCHEDULE 40 PIPE. SLEEVE THE FOLLOWING:	1. TO BE FLEXMASTER TYPE 3, WIREMOLD TYPE WCK OMNIAIR 1200, OR THERMAFLEX.	В
	1. MASONARY WALLS SLEEVE ALL PIPE PENETRATIONS.	FLEXIBLE DUCTWORK SHALL BE ACOUSTICAL LOW PRESSURE TYPE WITH INTERIOR LINER, METAL HELIX, FIBERGLASS INSULATION WITH AN R VALUE OF 6.0 OR GREATER	- 1.
	 FLOORS SLEEVE ALL HVAC PIPING. EXTEND SLEEVES 1/2 " ABOVE FINISHED FLOOR (2" ABOVE FINISHED FLOORS IN MECHANICAL ROOMS). 	AND COPOLYMER SEAMLESS OUTSIDE SLEEVE. THE ENTIRE FLEXIBLE DUCT ASSEMBLY SHALL BE LISTED IN ACCORDANCE WITH UL-181 CLASS 1 AIR DUCT MATERIAL. THE	
3	. FIRE RATED DRY WALL PARTITIONS SLEEVE	MAXIMUM LENGTH OF ANY FLEX DUCT SHALL BE 6'-0". FLEXIBLE DUCTWORK SHALL	2.
	 NON-FIRE RATED PARTITIONS NO SLEEVES REQUIRED. SEAL WALL TO INSULATION. USE U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU RATED CONSTRUCTION. 	MEET THE FLORIDA MODEL ENERGY EFFICIENCY CODE. ALL JOINTS AT CONNECTIONS TO DIFFUSERS AND DUCTWORK SHALL BE SEALED WITH GLASS, FABRIC AND MASTIC.	3.
-		 FLEXIBLE NON-INSULATED DUCT SHALL BE FLEXMASTER ALUMINUM TRIPLE-LOCK METAL DUCT, MODEL NI-TL OR APPROVED EQUAL, ETL CLASS 0, MAXIMUM LENGTH USED SHALL BE 6 FT. 	C
- VIE	BRATION ISOLATION	C. TERMINAL CONNECTORS	1.
Α.	ACCEPTABLE MANUFACTURERS:	1. GENERAL - CONNECTORS SHALL BE RATED FOR 12" W.G., AND MEET NFPA 90A	
	1. MASON INDUSTRIES.	REQUIREMENTS. DUCT SHALL BE FABRICATED OR ALUMINUM SPIRAL HELIX AND REINFORCED RIP STOP ALUMINUM POLYESTER. PRESSURE DROP SHALL NOT EXCEED	2.
	. KINETICS NOISE CONTROL. . KORFUND.	0.6"/100'-0" AT 1000 FPM. WHERE INSULATION IS REQUIRED, FURNISH FACTORY APPLIED	
4	. AMBER BOOTH.	FIBERGLASS WITH REINFORCED VAPOR-BARRIER JACKET. INSULATION CONDUCTANCE VALUE SHALL NOT EXCEED 0.23. NON-INSULATED DUCT SHALL BE EQUAL TO	3.
В.	MASON TYPE SLF CONTROL AIR COMPRESSOR	FLEXMASTER TYPE 3. INSULATED DUCT SHALL BE EQUAL TO FLEXMASTER 3M. 2. HIGH VELOCITY – MAXIMUM DEVELOPED LENGTH OF CONNECTOR SHALL BE 6'-0". USE	D
С.	MASON TYPE HS CEILING SUSPENDED FANS	METAL DUCTS AND FITTINGS TO REACH WITHIN 6'-0" WHERE CONNECTORS ARE ATTACHED TO INSULATED DUCT, FURNISH INSULATED FLEXIBLE DUCT.	1.
- INS	ULATION	D. BALANCING DAMPERS	E
Α.	INSULATION, ADHESIVES, COATINGS, SEALERS, TAPES, ETC. SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS IN ACCORDANCE	1. GENERAL – IN ALL DUCTWORK SYSTEMS, PROVIDE DAMPERS FOR PROPER CONTROL	1.
	WITH ASTM E-84, NFPA 225, UL 723 AND MEET THE REQUIREMENTS OF NFPA 90A.	AND BALANCING OF AIR QUANTITIES. CONCEALED DAMPERS TO HAVE CONCEALED DAMPER REGULATOR. ALL COMPONENTS FOR PROPER OPERATION; (i.e. GEARS,	
	ALL INSULATING R-VALUES TO MEET THE REQUIREMENTS OF THE FLORIDA ENERGY CODE.	LINKAGES, CABLE, ETC.) SHALL BE INCLUDED.	F
B.	FIBERGLASS PIPE INSULATION, JOHNS MANVILLE MICRO-LOK 850, CERTIANTEED,	 TYPE: OPPOSED BLADE. MATERIAL: STEEL, 3V TYPE BLADES MOUNTED IN STEEL CHANNEL FRAME. 	1.
	KNAUF, OWENS CORNING. JACKET: ASJ KRAFT PAPER WITH ALUMINUM FOIL.	4. SHAFT: 1/2 " SQUARE ROD OPERATOR WITH END BEARINGS AND GASKET SEAL AT DUCT PENETRATIONS. TERMINATE SHAFT IN DAMPER FRAME WITH BUSHINGS.	2.
С.	FLEXIBLE ELASTOMERIC INSULATION, ARMSTRONG "AP ARMAFLEX", MITCHEL, RUBATEX :	5. OPERATOR: LOCKING QUADRANT HANDLE WITH DAMPER POSITION INDICATOR AND	۷.
	1. CONDENSATE DRAINS - 3/4 " THICK.	INSULATION STAND OFF MOUNTING BRACKET FOR EXTERNALLY INSULATED DUCTWORK.	G
	2. REFRIGERATION MACHINE EVAPORATOR – 2 LAYERS – 3/4 " THICK. 3. REFRIGERATION SUCTION LINES: 3/4 " THICK	E. ACCESS DOORS 1. ACCEPTABLE MANUFACTURERS: RUSKIN, VENCO, NAILOR.	1. H
	5. REFRIGERATION SOCTION LINES: 574 THICK	2. SIZE ACCESS DOOR AS FOLLOWS:	1.
	STANDARD WHITE WB FINISH. PRIOR TO APPLYING THE FINISH, THE INSULATION SHALL BE WIPED CLEAN WITH DENATURED ALCOHOL. THE FINISH SHALL NOT BE TINTED.	15970 – TEMPERATURE CONTROLS	2.
	z: ALL OUTBOOR EXPOSED PIPING RISOLLAHOVESTHELSERMAL PERMINENT OF EOWES DELEASED FILES	A. EXTEND EXISTING CONTROL SYSTEM TO NEW EQUIPMENT AND PROVIDE ALL	1
	THE PIPE. 6. CONTACT MANUFACTURER FOR ALTERNATIVE PRODUCTS.	MODIFICATIONS NECESSARY FOR A FULLY FUNCTIONING SYSTEM.	1
D.	BLANKET TYPE DUCT INSULATION, JOHNS MANVILLE, CERTAINTEED, KNAUF, OWENS	B. AIR HANDLING UNIT AND CONSTANT VOLUME REHEAT BOXES	2.
	CORNING, MINIMUM R=6.0, FOIL FACED KRAFT VAPOR BARRIER :	 THE EXISTING CONTROL SYSTEM IS TO BE MODIFIED BY THE OWNERS EXISTING CONTROL VENDOR. 	3.
	1. ALL SUPPLY, OUTSIDE AIR AND RETURN WHERE CONCEALED FROM VIEW, R-6.	2. AUTOMATIC CONTROL VALVES SHALL BE FULLY PROPORTIONING WITH MODULATING	4.
E.	SEMI RIGID BOARD TYPE DUCT INSULATION 1.51b DENSITY, CERTAINTEED 1B-300, JOHNS MANVILLE, KNAUF, OWENS CORNING:	PLUG OR V-PORT INNER GUIDES OR BALL TYPE. THE VALVE SHALL BE QUIET IN OPERATION AND FAIL-SAFE IN THE NORMALLY OPEN POSITION IN THE CONTROL	٦
F.	1. ALL SUPPLY, RETURN AND OUTSIDE AIR WHERE EXPOSED.	EVENT OF CONTROL FAILURE. CONTROL VALVES SHALL BE SIZED BY THE CONTROL MANUFACTURER AND SHALL BE WARRANTED TO MEET THE HEATING AND COOLING	1.
	2. MINIMUM DUCT INSULATION THICKNESS AND R VALUES ARE AS FOLLOWS:	LOADS AS SPECIFIED. CONTROL VALVES SHALL BE SUITABLE FOR THE PRESSURE CONDITIONS AND SHALL CLOSE AGAINST THE DIFFERENTIAL PRESSURE INVOLVED.	K
	a. SUPPLY AND RETURN AIR IN UNCONDITIONED SPACE: 2" (R-6 MIN.)	VALVE OPERATORS SHALL BE OF THE PNEUMATIC OR ELECTRIC 24 VOLT TYPE. BODY PRESSURE RATING AND CONNECTION TYPE (SCREWED FLANGED OR FLANGED)	1.
	 b. SUPPLY AND RETURN AIR IN CONDITIONED INTERIOR SPACE: 1.5" (R-4.2 MIN.) c. OUTSIDE AIR: 2" (R-6 MIN.) 	SHALL CONFORM TO PIPE SCHEDULE ELSEWHERE IN THIS SPECIFICATION.	L
	d. SUPPLY AIR IN CEILING RETURN AIR PLENUM: 1.5" (R-4.2 MIN.)	3. CONTROL CONTRACTOR SHALL PROVIDE ALL WIRING REQUIRED FOR THE CONTROL SYSTEM TO OPERATE. IF THE JOB CONTAINS SMOKE DAMPERS OR CAV/VAV BOXES	1.
	e. RETURN AIR IN CEILING RETURN AIR PLENUM: NOT REQUIRED. f. DUCTWORK OUTSIDE OF BUILDING: 3" (R-8 MIN.)	THEY SHALL ALSO BE WIRED BY T.C.C. 4. MOUNT THERMOSTATS 48" A.F.F. ALIGN WITH LIGHT/SWITCHES, DOOR SWINGS AND	2. 3.
FIFV	(IBLE INSULATED DUCT FOR SUPPLY AND RETURN AIR.	OTHER WALL MOUNTED DEVICES. COORDINATE LOCATION WITH ARCHITECT.	4.
	FLEXIBLE DUCT: UL 181, CLASS 1, MULTIPLE LAYERS OF ALUMINUM LAMINATE	15990 – TEST AND BALANCE	
	SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE; FIBROUS-GLASS INSULATION; POLYETHYLENE OR ALUMINIZED VAPOR-BARRIER FILM. FLEXMASTER, MASTERDUCT	A. PROVIDE COMPLETE TEST AND BALANCE OF ALL AIR SYSTEMS IN	
	TYPE 5M LOW PRESSURE INSULATED OR EQUAL. 1. PRESSURE RATING: 10-INCH WG POSITIVE AND 1.0-INCH WG NEGATIVE. 2. MAXIMUM AIR VELOCITY: 4000 FPM.	ACCORDANCE WITH NEBB (NATIONAL ENVIRONMENTAL BALANCING BUREAU) OR AABC (ASSOCIATED AIR BALANCE COUNCIL) STANDARDS.	

TEST AND BALANCE FIRM TO BE:

- CERTIFIED TEST & BALANCE (561) 961-5068, OR (954) 532-4772.
- DADE TEST AND BALANCE, INC. (954) 791-3194. 3. TOTAL DYNAMIC BALANCE - (954) 425-0764.
- 4. EARL HAGOOD, INC. (305) 266-7070. 5. OR APPROVED EQUAL
- CONTRACTOR SHALL:
- 1. VISIT SITE AT START OF PROJECT AND COORDINATE REQUIRED BALANCING EQUIPMENT
- AND DAMPERS WITH MECHANICAL CONTRACTOR.
- AIR SYSTEMS:
- RECORD DESIGN AND ACTUAL TOTALS. MEASURE AND REPORT FAN RPM, FAN SUCTION PRESSURE, FAN DISCHARGE PRESSURE, PRESSURE, FAN TOTAL PRESSURE AND PRESSURE DROP ACROSS COMPONENTS.
- ACTUAL AND DESIGN NAMEPLATE AMPERAGE ON FAN MOTORS. d.
- PRESSURE DIFFERENTIAL ACROSS DUCT SMOKE DETECTORS. ADJUST FANS FOR LOWEST STATIC PRESSURE REQUIRED TO DELIVER TO OUTLETS
- AS NOTED IN NEBB OR AABC PROCEDURES.
- MEASURE SUPPLY AND RETURN ENTERING AND LEAVING TEMPERATURES (DB/WB) ACROSS EACH COIL AND AT EACH SUPPLY DISCHARGE AND RETURN INLET AT UNIT.
- CONFIRM OPERATION AND PROPER CALIBRATION OF ALL CONTROLS, THERMOMETERS AND SENSING DEVICES.
- PROVIDE WRITTEN REPORT AT LEAST ONE WEEK BEFORE FINAL INSPECTION AND A
- TECHNICIAN DURING FINAL INSPECTION OF PROJECT PRODUCTS EQUIPMENT ACCEPTABLE MANUFACTURERS TRANE CARRIER JOHNSON CONTROL AIR CONDITIONING UNIT HEATING IS NOT REQUIRED. CONDENSER COIL AND FAN AND COMPRESSOR REHEAT RECOVERY CONTROLLED BY A DUCT MOUNTED HUMIDISTAT. CASING 0.26 AT 75 DEGREE F. INSULATION TO BE ADHERED AND PINNED TO THE CASING. CONNECTION. SWEATING UNDER THE ENCOUNTERED OPERATING CONDITIONS. SUPPLY FAN ISOLATED HINGE MOUNTED MOTOR. CONDENSER FAN COMPRESSOR. MOTORS AND DRIVES PROCEDURE 112, METHOD B. REFER TO SECTION 15052 - VARIABLE FREQUENCY DRIVE OR SECTION 15055 - MOTORS. LIMITS FOR INSULATION CLASS, SERVICE FACTOR AND MOTOR ENCLOSURE. EVAPORATOR COIL EVAPORATOR COIL WITH MINIMUM 3/8 INCH COPPER TUBES MECHANICALLY EXPANDED ONTO ALUMINUM PLATE FINS. FILTER SECTION ON BOTH SIDES FOR SIDE LOADING OF FILTERS. ATMOSPHERIC DUST SPOT (ADS) EFFICIENCY OF 40-45 PERCENT AND AN AVERAGE ARRESTANCE OF NOT LESS THAN 96 PERCENT. REFRIGERANT CIRCUIT COMPRESSOR MOTOR WITH INTERNAL OVERLOAD PROTECTION. IN A STAGGERED PATTERN NOT LESS THAN ROWS DEEP AND HAVE A 450 PSIG WORKING PRESSURE ROOF CURB MINIMUM 18 INCH HIGH GALVANIZED STEEL CHANNEL FRAME WITH GASKETS AND NAILER STRIPS. PIPING
 - SCHEDULE 40 PVC. ELECTRICAL PROVIDE A LOCKOUT INDICATING TERMINAL IN THE LOW VOLTAGE CIRCUIT.
 - THERMOSTAT OR MAIN CIRCUIT BREAKER. DISCONNECT SWITCH: FACTORY MOUNT DISCONNECT SWITCH.
 - STATUES.

MAKE CHANGES TO BELTS, PULLEYS, DAMPERS, VOLUME BOXES, ETC. TO OBTAIN DESIGN CONDITIONS AS REQUIRED BY TAB PROCEDURES. BALANCE SUPPLY, RETURN AND EXHAUST AIR OUTLETS WITHIN 10% OF DESIGN WHILE MAINTAINING REQUIRED PRESSURE RELATIONSHIPS.

DESIGN AND ACTUAL SUPPLY, RETURN, OUTSIDE AND EXHAUST AIR.

SELF-CONTAINED, PACKAGED ROOF MOUNTED, AIR-TO-AIR DX AIR CONDITIONING UNIT HAVING THE CAPABILITY OF COOLING THE REQUIRED CAPACITY OF OUTSIDE AIR FROM 91 DEGREE FDB/78 DEGREE FWB SO AS TO SUPPLY ROOM AIR AT 75 DEGREE FDB/50 PERCENT RH.

UNIT TO BE FACTORY ASSEMBLED PRE-WIRED, DRAW-THRU UNIT WITH A MINIMUM OF 13 SEER SUITABLE FOR LOW PRESSURE OPERATION AND CONSIST OF A CABINET AND FRAME, SUPPLY FAN, CONTROLS, AIR FILTERS, VERTICAL DISCHARGE DUCTING, ROOF CURB, SERVICEABLE ACCESS PANELS WITH SCREWDRIVER OPERATED FLUSH CAM TYPE FASTENERS, REFRIGERANT COOLING COIL AND COMPRESSOR, PROVIDE UNIT WITH A MOTORIZED OUTSIDE AIR DAMPER AND A MANUAL VOLUME DAMPER FOR FIXED OUTSIDE AIR MAKEUP QUANTITY.

GALVANIZED STEEL BONDERIZED AND COATED WITH BAKED ENAMEL FINISH, ACCESS DOORS OR REMOVABLE ACCESS PANELS WITH QUICK SCREWDRIVER OPERATED FLUSH CAM TYPE FASTENERS. STRUCTURAL MEMBERS TO BE MINIMUM 18 GAUGE. REMOVABLE PANELS TO BE MINIMUM 20 GAUGE. INSULATE UNIT WITH 1/2 INCH THICK, 3 PCF DENSITY, NEOPRENE COATED GLASS FIBER INSULATION, "K" VALUE OF

CONSTRUCT DRAIN PAN FROM GALVANIZED STEEL WITH WELDED CORNERS AND A BOTTOM DRAIN. PITCH ENTIRE PAN TO DRAIN

THE MANUFACTURER WILL BE RESPONSIBLE FOR PROVIDING ADDITIONAL RIGID BOARD TYPE INSULATION TO PREVENT THE UNIT FROM

FORWARD CURVED, DOUBLE WIDTH, DOUBLE INLET CENTRIFUGAL TYPE FAN RESILIENTLY MOUNTED WITH V-BELT DRIVE AND RUBBER

DIRECT DRIVE, STATICALLY AND DYNAMICALLY BALANCED PROPELLER FAN, PERMANENTLY LUBRICATED AND WEATHERPROOF MOTOR UL LISTED FOR OUTDOOR USE, RESILIENTLY MOUNTED WITH FAN GUARD, MOTOR OVERLOAD PROTECTION, WIRED TO OPERATE WITH

MOTORS: MAXIMUM HORSEPOWER AS INDICATED AND SPECIFIED. PROTECT MOTOR AGAINST CONTACT FAILURE, LOSS OF ANY PHASE (SINGLE PHASING), LOW VOLTAGE, HIGH VOLTAGE, VOLTAGE UNBALANCE, PHASE REVERSAL AND WIND FOR SPECIFIED VOLTAGE HAVING A MINIMUM POWER FACTOR OF 85 TO 100 PERCENT AND A MINIMUM EFFICIENCY OF 91.7 PERCENT AT 100 PERCENT LOAD AS PER IEEE TEST DESIGN FOR CONTINUOUS OPERATION IN 40 DEGREE C ENVIRONMENT AND FOR TEMPERATURE RISE UNDER PROVISIONS OF ANSI/NEMA MG 1

PROVIDE FLAT TYPE FILTER SECTION CONSTRUCTED OF GALVANIZED STEEL AND CONTAINING FILTER GUIDES AND HINGED ACCESS DOORS PROVIDE 2 INCH DEPTH FILTER SECTION, UL CLASS 2, MEDIUM EFFICIENCY, GLASS FIBER, DISPOSABLE PLEATED TYPE AIR FILTERS WITH AN

UNIT TO CONTAIN ONE (1) SEALED REFRIGERANT CIRCUIT INCLUDING ONE HERMETIC COMPRESSOR, THERMAL EXPANSION VALVE METERING DEVICE, FINNED TUBE AIR-TO-REFRIGERANT HEAT EXCHANGER, REFRIGERANT EXPANSION VALVE AND SERVICE PORTS. COMPRESSOR TO BE A HIGH EFFICIENCY TYPE DESIGNED FOR COOLING ONLY AND MOUNTED ON VIBRATION ISOLATORS. PROVIDE

FINNED TUBE COIL TO BE CONSTRUCTED OF LANCED ALUMINUM FINS NOT EXCEEDING ELEVEN PER INCH BONDED TO RIFLED COPPER TUBES REFRIGERANT CIRCUIT TO BE EQUIPPED WITH HOT-GAS REHEAT FOR CONTROL OF THE RELATIVE HUMIDITY OF THE SUPPLY AIR.

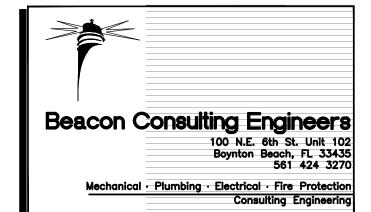
CONDENSER AND CONDENSATE DRAIN CONNECTIONS TO BE CONSTRUCTED OF BRASS FEMALE PIPE THREAD FITTINGS MOUNTED FLUSH TO SIDE OF CABINET EXTERIOR WITH OPTIONAL STAINLESS STEEL, BRAIDED HOSE KIT WITH SWIVEL CONNECTORS. CONDENSATE PIPING TO BE

FACTORY OR FIELD INSTALLED ENERGY MANAGEMENT RELAY TO ALLOW UNIT CONTROL BY AN EXTERNAL SOURCE.

WHEN THE SAFETY CONTROLS ARE ACTIVATED TO PREVENT COMPRESSOR SHORT CYCLING, THE LOCKOUT CIRCUIT MUST BE RESET AT THE

CHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> Ph:561.272.9086 F x: 5 6 1.2 7 2.5 6 3 6 <u>AA</u>C002029



Level II Alteration Green Owl Restaurant 11 SE 4th Ave. Delray Beach Florida

rba. pn. 10116.0

Issued Date:



AS NOTED

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

MECHANICAL SPECS

PROGRESS SET/NFC 03/04/2016

Richard Tavares P.E Florida Reg. No. 73704



PLUMBING LEGEND

FLOWIDING LEGEND						
C.O.	CLEAN OUT					
CW	DOMESTIC COLD WATER					
нพ	DOMESTIC HOT WATER					
VTR	VENT THRU ROOF					
DN	DOWN					
V.I.F.	VERIFY IN FIELD					
WHA	WATER HAMMER ARRESTER- PDI #					
SOV	SHUT-OFF VALVE					
T.P.	TRAP PRIMER					
	GAS COCK					
_ <u>N</u>	CHECK VALVE					
\bowtie	BALL VALVE					
HO	BALL VALVE IN VERTICAL					
- † •	HOSE BIBB WITH VACUUM BREAKER					
	SOLENOID VALVE					
WHA	WATER HAMMER ARRESTER- PDI #					
— · — · —	DOMESTIC COLD WATER PIPING					
· ·	DOMESTIC HOT WATER PIPING (110°F)					
<u> </u>	DOMESTIC HOT WATER PIPING (110°F)					
<u> </u>	DOMESTIC HOT WATER PIPING (120°F)					
—— PT ——	PRESSURE & TEMPERATURE RELIEF LI					
— GAS —	DOMESTIC L.P/N.G GAS PIPING					
— COND —	CONDENSATE PIPING					
	VENT PIPING					
	SANITARY SEWER PIPING					
—— IW ——	IN-DIRECT WASTE PIPING					
—— GW ——	GREASE WASTE PIPING					
—— 0 ———	PIPE DROP DOWN					
O	PIPE RISER UP					
	CAPPED END OF PIPE					
∞	P-TRAP					
_ I⊢–	CLEAN OUT					
	UNION – SCREWED OR FLANGED					
	CONDENSATE PIPE SUPPORT					
⊃⊖ _{FD}	FLOOR DRAIN					
≯ ∭ _{FS}	FLOOR SINK W/ 1/2 GRATE					

LINE

	GENERAL PLUMBING NOTES	
1.	ALL WORK SHALL COMPLY WITH THE 2014 EDITION OF THE FLORIDA PLUMBING, ENERGY CONSERVATION, ACCESSIBILITY AND FUEL GAS CODES, AND ALL LOCAL CODE AMENDMENTS.	1. WATER F COPPER
2.	DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS.	FITTINGS
3.	CONTRACTOR SHALL VISIT THE EXISTING SITE (IF APPLICABLE) PRIOR TO BIDDING AND SHALL INVESTIGATE ALL CONDITIONS THAT AFFECT HIS WORK; VERIFY LOCATIONS, SIZES, DIMENSIONS, AND INVERT ELEVATIONS OF ALL ON-SITE SANITARY SEWERS, STORM DRAINS, WATER MAINS AND NATURAL GAS MAINS, AND MAKE CERTAIN THAT ALL CONNECTIONS CAN BE MADE. THE CONTRACTOR SHALL MAKE THE ARCHITECT/ENGINEER	JOINTS: COPPER FITTINGS
4.	AWARE OF ANY CONFLICTS. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN THE TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED. CONSULT THE ARCHITECT'S DRAWINGS FOR ALL GRADE AND FINISH FLOOR ELEVATIONS.	JOINTS: COPPER
5.	ARCHITECT'S DRAWINGS FOR ALL GRADE AND FINISH FLOOR ELEVATIONS. CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.	FITTINGS JOINTS:
6.	CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.	FITTINGS WATER
7.	CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.	600 PSI APPROVE 2. DOMESTI
8.	CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.	2014 FL AUTOMA WATER F
9.	CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. PLUMBING CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM PLUMBING ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).	INSULATIO INSULATI ELASTOM WITH INS PIPING S BANDS A AND CAU
10.	CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.	INSTALLA 3. NEW OR AND WHE
11.	TRENCHING, BACKFILL AND CONCRETE WORK ASSOCIATED WITH PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.	THE MET 4. ALL FIXT MARKED
	CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES THROUGH FLOORS AND WALLS. PIPING THROUGH FLOORS SHALL BE SLEEVED, CAULKED AND FLASHED TO PREVENT LEAKAGE. SEAL ALL WALL PENETRATIONS WATERTIGHT WITH SILICONE CAULKING AND BACKER ROD, OR COVERED WITH ESCUTCHEON PLATES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE PLUMBING SUBCONTRACTOR TO PROVIDE ALL LAYOUT, SLEEVING, CONCRETE CUTTING AND PATCHING, AND CONCRETE COREBORING AS REQUIRED TO COMPLETE ALL OF PLUMBING WORK. ALL LAYOUT OF REQUIRED CONCRETE CUTTING MUST BE APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLUMBING SUBCONTRACTOR'S EXECUTION OF SAME. PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A UL LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S LISTED DETAILS AND SPECS.	TO INSTA 5. PROVIDE SHUT-OF 6. PROVIDE PLUMBING QUICK CI USE SIOL P.D.I.#C CONFORM 7. PROVIDE WITH CO
14.	LAYOUT PIPES TO FALL (CONCEALED) WITHIN PARTITION WALL OR CHASES. NOTIFY ARCHITECT IF ADDITIONAL WALL SPACE IS REQUIRED. COORDINATE PIPE DROP WITH FOOTINGS, STRUCTURAL STEEL, FIRE RATED WALLS, WHICH MAY FALL BELOW PARTITION WALL OR CHASE. MAKE NECESSARY ADJUSTMENT TO PIPING TO AVOID CONFLICT WITH BUILDING OBSTRUCTIONS. CONSULT WITH ARCHITECT AND CONTRACT DOCUMENTS FOR LOCATION OF ALL RATED WALLS, CEILINGS, FLOORS AND ROOF. FURNISH AND INSTALL APPROPRIATE AND APPROVED FIRE BARRIER AT ALL PENETRATIONS. INSTALLATION SHALL BE PER MANUFACTURES SPECIFICATIONS.	AREAS V A TRAP (OR APP 10. DO NOT AND INTO ROOM AN 11. ESCUTCH PASS TH
15.	NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOM(S) OR IN CEILING SPACE(S) WHERE USED AS RETURN AIR PLENUMS.	12. INSTALL
16.	NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.	
17.	CONTRACTOR SHALL PROVIDE PIPE HANGERS FOR ALL PIPING. HANGER RODS AND DEVICES SHALL BE USED FOR SUPPORT OF ALL PIPING. MAKESHIFT DEVICES WILL NOT BE ACCEPTABLE. HANGER DEVICES SHALL BE SIZED TO FIT AROUND INSULATION. PROVIDE GALVANIZED STEEL SADDLES AS REQUIRED. PIPING SUPPORT SPACING SHALL COMPLY WITH THE FLORIDA PLUMBING CODE-2014.	AMERICAN OBTAIN FI ALL FIXTU PROVIDE F SUPPORTS
18.	SANITARY, VENT PIPING AND DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE FLORIDA PLUMBING CODE-2014.	SYSTEM.
19.	DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.	
20.	IN AREAS OF EXPOSED CMU, ALL PIPING SHALL BE WITHIN CMU WALL. NO EXPOSED PIPING SHALL BE ALLOWED. COORDINATION WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.	LAV-1
21.	MAINTAIN A MINIMUM SEPARATION OF 5 FEET BETWEEN POTABLE WATER PIPE AND BUILDING SEWER. WHEN THERE IS LESS THAN 5 FEET OF SEPARATION MAINTAIN A MINIMUM OF 12 INCHES BETWEEN INVERT OF POTABLE WATER AND TOP OF SEWER.	LAV-2
22.	MATERIALS AND EQUIPMENT SHALL BE NEW OF AMERICAN MANUFACTURER, FREE OF DEFECTS AND IT SHALL MEET THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, ASTM & ANSI SPECIFICATIONS WHERE SUCH EXIST, STANDARD AND LOCAL BUILDING CODES, AND SHALL BE SUITABLE FOR THE USE INTENDED.	HLAV
23.	PLUMBING PIPING SHALL BE LABELED WITH CONTENT DESCRIPTION AND FLOW DIRECTION. REFER TO MARKER PLACEMENT RECOMMENDATION DETAIL FOR FURTHER INFORMATION.	
		wc
	PLUMBING FIXTURE SCHEDULE	Н₩С
ARK	FIXTURE PIPE SIZE QTY DFU TOTAL WSFU TOTAL REMARKS	
[

MARK		PIPE SIZE					DELL	TOTAL	WSFU	TOTAL	REMARKS
MARK	FIXTURE		C.W. H.W. WASTE TRAP				DFU	w3i 0	WSFU	REMARNS	
HLAV	LAVATORY (HANDICAPPED)	1/2"	1/2"	2"	1–1/2"	2	1	2	2.0	4.0	
HWC	WATER CLOSET (HANDICAPPED)	1/2"	١	3"	INT.	2	4	8	5.0	10.0	3x4
E-9	DISHWASHING MACHINE	1/2"	1/2"	I.D.	_	1	0	0	4.5	4.5	
E-11	HAND SINK	1/2"	1/2"	2"	1–1/2"	1	2	2	1.4	1.4	
E-10	THREE-COMPARTMENT SINK	1/2"	1/2"	I.D.	_	1	0	0	4.0	4.0	
MS	MOP SINK	1/2"	1/2"	3"	3"	1	2	2	3	3.0	
FD	FLOOR DRAIN			3"	3"	1	0	0	0	0.0	1/2"T.P
FS	FLOOR SINK			3"	3"	1	5	5	0	0.0	
TOTAL								19		26.9	WSFU
										22.2	GPM

NOTES:

1. ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 (MAX. FLOW RATES), TABLE 604.5 (MIN.

SIZES OF WATER SUPPLY), & TABLE 709.1 (MIN. SIZE OF TRAP) OF F.B.C.-PLUMBING 2. PROVIDE A 1" WATER SERVICE LINE AS PER FBC-PLUMBING

APPENDIX E TABLE E103.3(3) (ESTIMATING DEMAND) AND FIGURE E103.3(2) GPM Vs. PRESSURE DROP (MAX. VELOCITIES 6 FT/SEC HOT WATER AND 8 FT/SEC COLD WATER).

INLINE BACKFLOW PREVENTOR

TP

FS

MS

HB

WHA

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WATER PIPING SYSTEM NOTES

WATER PIPING SHALL BE: COPPER PIPING (ABOVE GRADE): ASTM B88, TYPE L, HARD DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.23, CAST BRASS OR ANSI/ASME B16.29, WROUGHT COPPER.

- (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE).
 JOINTS: (a) SOLDERED: ANSI/ASTM B32, LEAD-FREE SOLDER, GRADE 95TA.
 - (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE).
- COPPER PIPING (UNDERGROUND BUILDING EXTERIOR): ASTM B88, TYPE K, HARD DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.29, WROUGHT COPPER.
- (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE).
 JOINTS: (a) SOLDERED: ANSI/ASTM B32, LEAD-FREE SOLDER, GRADE 95TA.
 - (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE).
- COPPER PIPING (UNDERGROUND UNDER BUILDING SLAB): ASTM B878, TYPE K, SOFT DRAWN. FITTINGS: (a) SOLDERED: ANSI/ASME B16.29, WROUGHT COPPER. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH
- EPDM O-RING AND SMART CONNECT (SC FEATURE). JOINTS: (a) SOLDERED: ANSI/ASTM B32, LEAD-FREE SOLDER, GRADE 95TA. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND SMART CONNECT (SC FEATURE).
- FITTINGS AND JOINTS SHALL COMPLY WITH SECTIONS 605.14.1 THROUGH 605.14.5 OF FBC-PLUMBING. WATER VALVES 2" AND SMALLER SHALL BE A BRONZE BALL VALVE, TWO-PIECE BODY, 600 PSI WORKING PRESSURE, NIBCO MODEL S-585-80-LF (NSF-61 LEAD FREE) OR
- APPROVED EQUAL. THE USE OF GATE VALVES SHALL BE <u>PROHIBITED.</u>
- DOMESTIC AND SERVICE HOT WATER PIPING SHALL BE INSULATED AS PER: 2014 FLORIDA BUILDING CODE-PLUMBING, SECTION 607.5 WITH 1" INSULATION FOR AUTOMATIC MAINTENANCE SYSTEMS AND 1/2" INSULATION THE FIRST 8 FEET OF HOT WATER PIPING FROM A HOT WATER SOURCE THAT DOES NOT HAVE HEAT TRAPS. INSULATION MATERIAL SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HxS.F.xT. INSULATION MATERIAL SHALL BE FIBERGLASS(JOHN MANVILLE MICRO-LOK), ARMACELL ELASTOMERIC (AP ARMAFLEX) OR APPROVED EQUAL. COVER VALVES, FITTINGS AND FLANGES WITH INSULATION SIMILAR TO ADJACENT PIPE COVERING. EXTERIOR ABOVE GRADE WATER PIPING SHALL BE FINISHED WITH AN ALUMINUM JACKET SECURED WITH 1/2" ALUMINUM BANDS AND SEALS. ALUMINUM SCREWS, OR POP RIVETS ON 9". PLACE LAPS TO SHED WATER.
- BANDS AND SEALS, ALUMINUM SCREWS, OR POP RIVETS ON 9". PLACE LAPS TO SHED WATER, AND CAULK WHERE NECESSARY TO PREVENT WATER INTRUSION. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND WHERE REQUIRED BY THE ADMINISTRATIVE AUTHORITY, DISINFECTED PRIOR TO UTILIZATION.
- THE METHOD TO BE FOLLOWED SHALL BE AS PER SECTION 610 OF FPC-2014. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- PROVIDE A WATER HAMMER ARRESTOR ON ALL WATER SUPPLY LINES SERVING FLUSH VALVE PLUMBING FIXTURES, SOLENOID VALVES, ETC. INCLUDING OTHER FIXTURES OR EQUIPMENT WITH QUICK CLOSING VALVES (ICE MAKERS, & DISHWASHERS). USE SIOUX CHIEF SHOCK ARRESTORS, P.D.I.#A ; 1/2"CONN., P.D.I.#B ; 3/4"CONN.
- P.D.I.#C ; 1"CONN.. APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. CONFORMS WITH ANSI/ASSE 1010 STANDARDS. PROVIDE AUTOMATIC TRAP PRIMER ON COLD WATER CONNECTION TO LAVATORY FIXTURE
- MITH COLD WATER TUBE TO FLOOR DRAIN AUXILIARY INLET FITTING. FLOOR DRAINS IN AREAS WHERE A LAVATORY (TRAP PRIMER) CONNECTION IS NOT AVAILABLE, PROVIDE A TRAP PRIMER DISTRIBUTION UNIT PRECISION PLUMBING PRODUCTS, MODEL PR-500 (OR APPROVED EQUAL) AND A SHUT-OFF VALVE IN ACCESSIBLE AREA.
- DO NOT PENETRATE DOMESTIC WATER PIPING USED FOR ELECTRICAL GROUNDING THROUGH AND INTO THE ELECTRICAL ROOMS. TERMINATE THE PIPE OUTSIDE OF THE ELECTRICAL
- ROOM AND PROVIDE GROUND STRAPS. ESCUTCHEONS SHALL BE CHROME PLATED BRASS WITH LOCKING SCREWS WHERE PIPES PASS THROUGH FINISHED WALLS.
- NSTALL VACUUM BREAKERS ON ALL HOSE BIBBS AND HYDRANTS.

PLUMBING FIXTURE LIST

MERICAN STANDARD & ZURN PRODUCTS ARE LISTED. SUBMIT FIXTURES FOR APPROVAL. BTAIN FINAL APPROVAL FROM ARCHITECT & OWNER PRIOR TO ORDERING FIXTURES. LL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF F.B.C.-PLUMBING ROVIDE FIXTURES WITH REQUIRED STOP VALVES, FITTINGS, ACCESSORIES, JPPORTS, ETC, AS REQUIRED FOR A COMPLETE FUNCTIONAL PLUMBING

	MFG.	MODEL	REMARKS
	AMERICAN STANDARD	0476.028 7385V05 .003.002	AQUALYN COUNTER TOP LAVATORY. FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE VANDAL RESISTANT, INDEXED METAL LEVER HANDLE.
	AMERICAN STANDARD	0497.221 7385V05 .003.002	OVALYN UNDER COUNTER TOP LAVATORY. FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE VANDAL RESISTANT, INDEXED METAL LEVER HANDLE.
	AMERICAN STANDARD	0355.012 7385V05 .003.002	LUCERNE WALL HUNG LAVATORY, WITH CARRIER FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE VANDAL RESISTANT, INDEXED METAL LEVER HANDLE.
	AMERICAN STANDARD	0355.012 7385V05 .003.002	WALL HUNG HANDICAPPED LAVATORY, WITH CARRIER ZURN Z1231 CONCEALED ARM SYSTEM. PROVIDE OPTION -SL WHEN BACK WALL IS 4" OR LARGER. FAUCET, 0.5 GPM, GRID DRAIN, LESS POP-UP HOLE, VANDAL RESISTANT, INDEXED METAL LEVER HANDLE, PROVIDE TRUEBRO DRAIN/PIPE INSULATION.
	AMERICAN STANDARD	2386.010	TANK TYPE WATER CLOSET MADERA(1.6 GPF) CADET ELONGATED, AND OLSONITE #95 SEAT.
	AMERICAN STANDARD	2386.012 4142.801	HANDICAPPED TANK TYPE WATER CLOSET (1.6 GPF) CADET ADA ELONGATED, 16–1/2"H PROVIDE ALTERNATE TANK CONFIGURATION WITH TRIP LEVER ON RIGHT SIDE WHERE REQUIRED. OLSONITE #95 SEAT.
	ZURN	Z415BZ –NH–P	FLOOR DRAIN, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET, POLISHED BRONZE ROUND LEVELING STRAINER TOP, NO HUB, 3"Ø SIZE, 1/2" TRAP PRIMER CONNECTION.
	ZURN	Z1022	SANI-GUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY WITH INTEGRAL VACUUM BREAKER. 1/2" PIPE SIZE.
	ZURN	FD2376 —NH3—H	NO HUB FLOOR SINK, 12" X 12". 1/2 GRATE, CAST IRON BODY WITH A WHITE ACID- RESISTANT PORCELAIN ENAMEL INTERIOR COATING, AND AN ABS ANTI-SPLASH DOME STRAINER.
	FIAT	MSB-2424	MOLDED STONE MOP BASIN, 830–AA FAUCET, 899–CC MOP HANGER,832–AA HOSE AND HANGER, MSG 2424 S.S. WALL GUARD
	ZURN	Z1341–P34	HOSE BIBB W/ VACUUM BREAKER. ROUGH BRONZE.
	SIOUX CHIEF OR WILKINS	HYDRA RESTER 1250	WATER HAMMER ARRESTOR, CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010, SEE DOMESTIC WATER ISOMETRIC DIAGRAM FOR SIZES AND LOCATION.
r R	WILKINS OR WATTS	740 SD3-MF	INLINE BACKFLOW PREVENTOR, ASSE 1022 APPROVED. 3/8"CONNECTION. SEE ISOMETRIC DIAGRAM FOR LOCATION. PROVIDE AN INDIRECT WASTE CONNECTION TO FLOOR SINK. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

FUEL GAS SYSTEM NOTES

- ABOVE GRADE GAS PIPING INSTALLED IN THE INTERIOR OF THE BUILDING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE THREADED FITTINGS UP TO 4"Ø OR WELDED FITTINGS FOR PIPING LARGER THAN 4"Ø. PIPING SHALL COMPLY WITH EITHER ASME B 36.10, 10M OR ASTM A 53, OR ASTM A 106 STANDARD. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- GAS PIPING INSTALLED IN CONCEALED LOCATIONS AS PER FBC-FUEL GAS SECTION 404.3 SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS. EXCEPTIONS:
- A. TUBING JOINED BY BRAZING.
 B. FITTINGS LISTED FOR USE IN CONCEALED LOCATIONS AS DEFINED IN NFPA 54 NATIONAL FUEL GAS CODE SECTION 7.3, THE UNIFORM PLUMBING CODE, AND THE INTERNATIONAL FUEL GAS CODE.
- 3. GAS PIPING INSTALLED ON THE EXTERIOR OF THE BUILDING AND ABOVE GRADE SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH MALLEABLE THREADED FITTINGS AND SHALL COMPLY WITH EITHER ASME B 36.10, 10M OR ASTM A53, OR ASTM A106 STANDARD. PIPE SHALL BE COVERED WITH 2 COATS OF A WATERPROOF ASPHALTIC COATING (OR EQUAL) TO PREVENT CORROSION OF THE PIPE.
- 4. AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC (PLASTIC) PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC GAS PIPING. THE TRACER WIRE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR BURIAL.
- 5. UNDERGROUND PIPING SHALL BE INSTALLED TO ALLOW PROPER MAINTENANCE AND TO PROTECT AGAINST CONTACT OR DAMAGE RESULTING FROM PROXIMITY TO OTHER STRUCTURES. UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY HEAT SOURCE. 2014 JECC SECTION 404.12
- 2014 IFGC SECTION 404.12
 6. PIPING INSTALLED UNDERGROUND BENEATH BUILDINGS IS PROHIBITED EXCEPT WHERE THE PIPING IS ENCASED IN A CONDUIT OF WROUGHT IRON, PLASTIC PIPE OR STEEL PIPE DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS. SUCH CONDUIT SHALL EXTEND INTO AN OCCUPIABLE PORTION OF THE BUILDING AND, AT THE POINT WHERE THE CONDUIT TERMINATES IN THE BUILDING, THE SPACE BETWEEN THE CONDUIT AND THE GAS PIPING SHALL BE SEALED TO PREVENT THE POSSIBLE ENTRANCE OF ANY GAS LEAKAGE.
- 2014 IFCC SECTION 404.4 7. GAS PIPING SHALL NOT PENETRATE BUILDING FOUNDATION WALLS AT ANY POINT BELOW GRADE. GAS PIPING SHALL ENTER AND EXIT A BUILDING AT A POINT ABOVE GRADE AND THE ANNULAR SPACE BETWEEN THE PIPE AND THE WALL SHALL BE SEALED.
- B. CONNECTIONS MADE OUTSIDE AND UNDERGROUND BETWEEN METALLIC AND PLASTIC PIPING SHALL BE MADE ONLY WITH TRANSITION FITTINGS CATEGORIZED AS CATEGORY I IN ACCORDANCE WITH ASTM D 2513.
- 9. PIPING SHALL NOT BE INSTALLED IN OR THROUGH A CIRCULATING AIR DUCT, CLOTHES CHUTE, CHIMNEY OR GAS VENT, VENTILATING DUCT, DUMBWAITER OR ELEVATOR SHAFT.
- CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION OF GAS SERVICE TO BUILDING, SEPARATE GAS PERMIT WILL BE REQUIRED.
 ALL GAS LINES SHALL BE BLOWN CLEAN OF DEBRIS AND FOREIGN MATTER WITH
- COMPRESSED AIR PRIOR TO FINAL CONNECTION TO EQUIPMENT. 12. BEFORE ANY SYSTEM OF PIPING IS PUT IN SERVICE OR CONCEALED, IT SHALL BE TESTED TO ENSURE THAT IT IS GAS TIGHT. TESTING, INSPECTION AND PURGING OF PIPING
- SYSTEMS SHALL COMPLY WITH FBC-FUEL GAS, SECTION 406. 13. ALL PENETRATIONS OF GAS PIPING THROUGH SLABS AND FOUNDATION WALLS SHALL BE SLEEVED WITH A PIPE SLEEVE.
- 14. FROM GAS HEADER INSTALL PIPE DROP WITH A 6" LONG SEDIMENT TRAP. PROVIDE GAS SHUT OFF VALVE ACCESSIBLE FOR MANUAL SHUT-OFF OF GAS TO EQUIPMENT.
- 15. PRESSURE REGULATORS THAT REQUIRE A VENT SHALL HAVE AN INDEPENDENT VENT TO THE OUTSIDE OF THE BUILDING. THE VENT SHALL BE DESIGNED TO PREVENT THE ENTRY OF WATER OR FOREIGN OBJECTS. EXCEPTION: A VENT TO THE OUTSIDE OF THE BUILDING IS NOT REQUIRED FOR REGULATORS EQUIPPED WITH AND LABELED FOR UTILIZATION WITH APPROVED VENT-LIMITING DEVICES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 16. FROM GAS VALVE INSTALL APPROVED FLEXIBLE HOSE AND QUICK DISCONNECT WITH
- RESTRAINING DEVICE AND MAKE FINAL CONNECTION TO MOVEABLE EQUIPMENT(IF APPLICABLE). 17. CONTRACTOR SHALL PROVIDE NECESSARY REGULATORS FOR EACH APPLIANCE TO DROP GAS LINE PRESSURE TO APPLIANCE'S REQUIREMENTS.
- 18. CONTINUE GAS SERVICE AND PROVIDE CONNECTION TO MAIN GAS SERVICE LINE. 19. LOCATION OF CONNECTION, INCLUDING GAS METER, MAIN SHUT-OFF VALVE, ETC., SHALL
- BE COORDINATED WITH CIVIL DOCUMENTS AND/OR LOCAL GAS COMPANY. 20. AS PER FBC- FUEL GAS, SECTION 401.5, FOR OTHER THAN STEEL PIPE, 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. THE MARKING SHALL
- NOT BE REQUIRED ON PIPE LOCATED IN THE SAME ROOM AS THE EQUIPMENT SERVED. 21. COORDINATE WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTRACTOR FOR LOCATION
- OF INTERLOCK CONTROL WIRING FOR AUTOMATIC SHUT OFF OF GAS VALVE.
- 22. REFER TO FOOD SERVICE DRAWINGS AND EQUIPMENT MANUFACTURER'S DATA SHEETS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

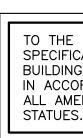
PLUMBING SHEET INDEX

- P0.1 PLUMBING LEGEND, NOTES & INDEX P1.1 PLUMBING FLOOR & ROOF PLAN
- P2.1 PLUMBING ISOMETRIC DIAGRAMS
- P3.1 PLUMBING DETAILS
- 3.1 PLUMBING DETAILS

WATER HEATER SCHEDULE - NAT. GAS

DESIGNATION	MFG.	MODEL No.	BTU/HR	CAPACITY	SET POINT (°F)		
GWH-1	RINNAI	C199eN	199,999	TANKLESS	120		
GWH-2	RINNAI	C199eN	199,999	TANKLESS	120		
NOTE: 1. CONTRACTOR TO CONSULT MANUFACTURER FOR SPECIFIC INSTALLATION REQUIREMENTS. 2. INSTALL TEMPERATURE CONTROLLER INDOORS.							

CONTRACTOR TO CONSULT MANUFACTURER FOR SPECIFIC INSTALLATION REQUIREMENTS.
 INSTALL TEMPERATURE CONTROLLER INDOORS.
 ELECTRONICALLY LINK BOTH UNITS WITH REU-EZC-1US CONNECT CABLE. COORDINATE ELECTRICAL CONTRACTOR.



CONNECTION TO EXISTING PLUMBING SYSTEM NOTES

1. INSTALLATION OF WORK AND NEW CONNECTION TO EXISTING PLUMBING LINES SHALL BE MADE AT TIME WHICH WILL NOT INTERFERE OR INTERRUPT THE NORMAL BUILDING OPERATION.

2. EXACT LOCATIONS, SIZE, AND ELEVATION OF EXISTING PIPING SHALL BE FIELD VERIFIED BEFORE START OF ANY WORK. ACTUAL FIELD CONDITIONS MAY REQUIRE ADJUSTMENT OR MODIFICATION TO PROPOSED ROUGHING, LAYOUT, AND ROUTING OF PIPING, INCLUDING POINT OF CONNECTION TO EXISTING WORK OF ADEQUATE SIZE TO ACCOMMODATE NEW WORK.

3. PROVIDE NECESSARY ADJUSTMENT OF NEW INSTALLATION DUE TO INTERFERENCE WITH BUILDING CONDITIONS, INCLUDING WORK OF OTHER TRADES.

4. PIPING MATERIAL, VALVES, PIPE SUPPORTS, PIPE COVERING, ETC. USED IN THE INSTALLATION OF WORK OF THIS CONTRACT SHALL BE NEW AND SHALL MATCH EXISTING, PROVIDING SAME MEETS ALL APPLICABLE BUILDING AND PLUMBING CODES.

5. PROVIDE NEW PLUMBING ROUGHING WITH CONNECTIONS NECESSARY OR REQUIRED FOR PROPER FUNCTION OF PLUMBING EQUIPMENT.

6. EXISTING PIPING SHALL BE MODIFIED AND/OR REMOVED TO POINT THAT WOULD ACCOMMODATE CONNECTION OF NEW (WATER AND WASTE) PLUMBING ROUGHING.

7. ROUTING OF NEW PIPING AND POINT OF CONNECTION TO EXISTING PIPING IS BASED ON ASSUMPTION THAT PIPING IS AT LOCATION SHOWN ON PLAN.

8. PROVIDE NECESSARY TEST TO DETERMINE TIGHTNESS OF EXISTING AND NEW PLUMBING PIPING SYSTEMS. ALL LEAKS AND OPEN OUTLETS FOUND DURING TEST SHALL BE REPAIRED, CAPPED OR PLUGGED, PERFORM ADDITIONAL TEST UNTIL IT IS DETERMINED THAT THE PLUMBING PIPING SYSTEMS IS WATER TIGHT.

9. CAP AND PLUG OF INACTIVE SANITARY PIPING SHALL BE TO POINT OF CONNECTIONS TO ACTIVE LINES. NO DEAD END SHALL BE PROVIDED.

10. ALL OPENINGS, HOLES, ETC; MADE FOR THE REMOVAL OF PLUMBING PIPING, FIXTURES, ETC; SHALL BE PATCHED WITH MATERIAL TO MATCH EXISTING.

11. IF FIELD CONDITION FINDS THAT EXISTING SANITARY, VENT, AND DOMESTIC WATER LINES CAN BE UTILIZED, CONNECT NEW SANITARY, VENT, AND DOMESTIC WATER LINES TO EXISTING. MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE NEW SANITARY, VENT AND DOMESTIC WATER LINES.

SANITARY, VENT, & CONDENSATE DRAIN SYSTEMS

SANITARY WASTE AND VENT DRAIN PIPING ABOVE GROUND SHALL BE ANY OF THE FOLLOWING: A. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS COMPLIANT WITH ASTM A 74, ASTM A 888, AND CISPI 301. PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL INSTITUTE AND LISTED BY NSF INTERNATIONAL. COUPLINGS SHALL BE STANDARD, SHIELDED, & STAINLESS-STEEL COMPLIANT WITH CISPI 310, WITH S.S. CORRUGATED SHIELD, S.S. BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE.

B. COPPER DWV TUBE: ASTM B 306, DRAINAGE TUBE, DRAWN TEMPER. COPPER DRAINAGE FITTINGS: ASME B16.23, CAST COPPER OR ASME B16.29, WROUGHT COPPER, SOLDER-JOINT FITTINGS.

C. SCHEDULE 40 PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT CEMENTED JOINTS COMPLIANT WITH ASTM D 2665.

SANITARY WASTE PIPING BELOW GROUND SHALL BE SOLID WALL SCHEDULE 40 PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS COMPLIANT WITH ASTM D 2665

GREASE WASTE PIPING UNDERGROUND AND ABOVEGROUND SHALL BE HUBLESS CAST-IRON PIPE AND FITTINGS COMPLIANT WITH ASTM A 74, ASTM A 888, CISPI 301. COUPLINGS SHALL BE STANDARD(ABOVEGROUND) & HEAVY-DUTY(BELOWGROUND), SHIELDED, & STAINLESS-STEEL COMPLIANT WITH CISPI 310, WITH S.S. CORRUGATED SHIELD, S.S. BANDS AND TIGHTENING DEVICES, AND ASTM C 564, RUBBER SLEEVE. UNDERGROUND PIPING SHALL BE COATED WITH ONE LAYER OF LATEX PAINT ON EXTERIOR OF PIPE PRIOR TO INSTALLATION. SOLID WALL SCHEDULE 40 PVC PIPE MAY BE USED IF PIPE MANUFACTURER APPROVES THE USE OF SUCH FOR GREASE WASTE LINES. ALL FLOOR SINKS RECEIVING HOT WATER ABOVE 140°F (STEAMERS, HOT RINSE DISHWASHERS, KETTLES) SHALL HAVE THE P-TRAP AND A MINIMUM OF 10 FEET OF THE DRAIN LINE BE CAST-IRON.

PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

CONDENSATE DRAIN PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC COMPLIANT WITH ASTM D 2665. PROVIDE 3/4" THICK AP/ARMAFLEX SS (SELF-SEAL) INSULATION FOR ALL HORIZONTAL ABOVE-GRADE CONDENSATE PIPING. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

CONDENSATE DRAIN PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC COMPLIANT WITH ASTM D 2665 BELOW GRADE AND HUBLESS CAST IRON OR TYPE "DMV" COPPER ABOVE SLAB. PROVIDE 3/4" THICK AP/ARMAFLEX SS (SELF-SEAL) INSULATION FOR ALL HORIZONTAL ABOVE-GRADE PIPING. SCHEDULE 40 PVC MAY BE USED IF NOT IN A RETURN AIR PLENUM RATED SPACE. ALL CONDENSATE PIPING ABOVE ROOF DECK SHALL BE SCHEDULE 40 PVC WITH NO INSULATION. PVC PIPING EXPOSED TO SUNLIGHT SHALL BE COATED WITH AN ULTRA VIOLET INHIBITING MATERIAL. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

4. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS.

 MAINTAIN A MINIMUM SLOPE OF 1/4" PER FOOT FOR DRAIN PIPING 2–1/2" OR LESS, AND 1/8" PER FOOT FOR PIPES 3" AND LARGER.
 ALL DRAINAGE P-TRAPS FOR SINKS, LAVATORIES, AND WATER COOLERS SHALL BE OF A

SLIP-JOINT TYPE. ALL VENT AND BRANCH VENT PIPES SHALL BE SO GRADED AND CONNECTED AS TO

DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. 3. EVERY DRY VENT SHALL RISE VERTICALLY TO A MINIMUM OF 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST TRAP OR TRAPPED FIXTURE BEING VENTED.

9. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO A WASTE RECEPTOR. ALL WASTE RECEPTORS SHALL BE TRAPPED & VENTED. ALL INDIRECT WASTE PIPING THAT EXCEEDS 24" IN DEVELOPED LENGTH MEASURED HORIZONTALLY OR 48" IN TOTAL DEV. LENGTH SHALL BE TRAPPED.

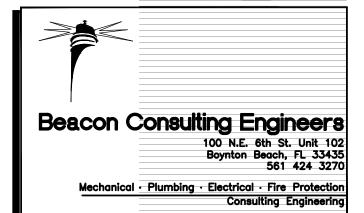
10. VENT FLASHING AND COUNTER FLASHING SHALL BE COMPATIBLE TO ROOFING SYSTEM. 11. ALL FLOOR DRAINS SHALL HAVE DEEP SEALTRAP RESEAL FITTINGS.

12. WATER HEATER RELIEF AND DRAIN LINE SHALL BE TYPE "L" COPPER, 3/4"Ø MINIMUM.
13. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH SOIL AND WASTE STACK.
14. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.



RCHITECTURE

RICKBRAUTIGAN 1025SDixie Highway DelrayBeach, FL 33483 Ph: 561.272.9086 Fx: 561.272.5636 AAC002029

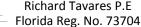


Level II Alteration Green Owl Restaurant 11 SE 4th Ave.

Delray Beach, Florida

rba. pn. 10116.01

ssued Date:



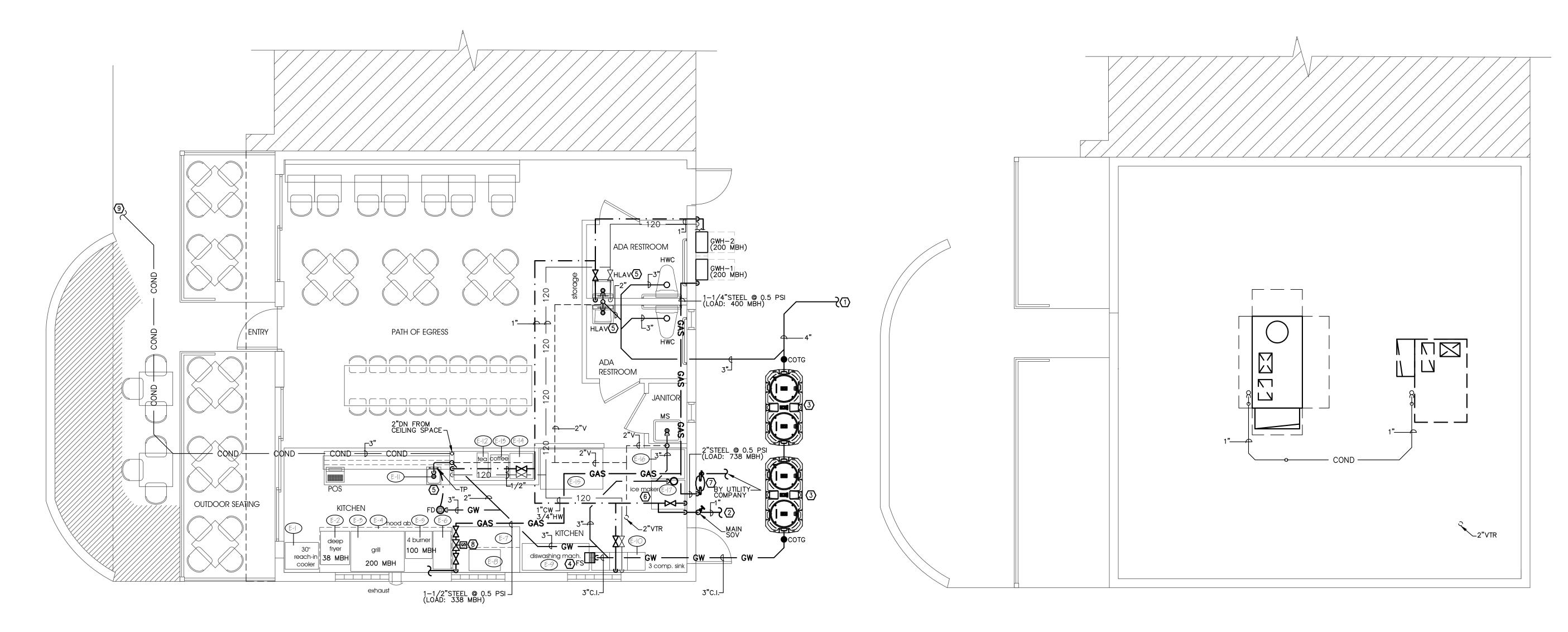


TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

PLUMBING NOTES

AS NOTED

PROGRESS SET/NFC 03/04/2016



PLUMBING FLOOR PLAN SCALE: 1/4" = 1'-0"

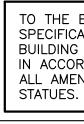
	PLAN KEY NOTES
	ROUTE AND CONNECT TO EXISTING SANITARY SERVICE LINE.
2	ROUTE AND CONNECT TO EXISTING WATER SERVICE LINE AND METER/BACKFLOW PREVENTER.
3	UNDERGROUND GREASE INTERCEPTOR. SCHIER MODEL GB-250.
4	ROUTE INDIRECT WASTE LINE(S) TO FLOOR SINK. TERMINATE WITH AIR GAP. FIELD COORDINATE EXACT ROUTING METHOD PRIOR TO INSTALLATION.
(5)	PROVIDE A THERMOSTATIC MIXING VALVE FOR HAND SINK. USE WATTS MODEL # MMV-M1. SET TEMPERATURE TO 105' F. SEE DETAIL ON SHEET $P-3.02$.
6	TERMINATE ICE MAKER DRAIN LINE ABOVE HUB DRAIN.
7	NATURAL GAS METER AND 0.5 PSI REGULATOR BY UTILITY COMPANY. LOAD: 738 MBH.
8	EMERGENCY MECHANICAL SHUT-OFF VALVE INTERLOCKED W/ HOOD FIRE SUPPRESSION SYSTEM.
9	ROUTE AND CONNECT NEW CONDENSATE LINE TO EXISTING CATCH BASIN. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.

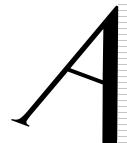
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	GENERAL NOTES
Α.	CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL REQUIRED ACCESS PANELS FOR SHUT OFF VALVES WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.
В.	CONTRACTOR SHALL COORDINATE ALL FINAL PLUMBING CONNECTIONS TO KITCHEN AND BAR EQUIPMENT WITH KITCHEN/BAR EQUIPMENT SUPPLIER/MANUFACTURER. CONFIRM WITH ARCHITECT & OWNER FOR FURTHER DETAILS.
C.	PROVIDE A SHUT-OFF VALVE FOR EACH GAS EQUIPMENT IN AN ACCESSIBLE SPACE. COORDINATE EXACT LOCATION AND PIPING ARRANGEMENTS OF GAS LINE WITH EQUIPMENT MANUFACTURER. INSTALLATION OF GAS LINE TO EQUIPMENT SHALL BE AS PER MANUFACTURER'S INSTALLATION MANUAL.
D.	GAS LOADS SHOWN ON PLANS ARE ESTIMATES. CONTRACTOR SHALL VERIFY ACTUAL LOAD AND NOTIFY ARCHITECT AND ENGINEER IF ACTUAL LOAD IS HIGHER THAN ESTIMATED LOAD.
E.	CONTRACTOR SHALL FIELD COORDINATE WITH UTILITY COMPANY EXACT LOCATION OF NATURAL GAS METER AND PRESSURE REGULATOR PRIOR TO INSTALLATION.
F.	ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FORM OUTDOOR AIR INTAKE OPENINGS.
G.	MAKE ALL NECESSARY ADJUSTMENTS TO SUIT FIELD CONDITIONS AND ACCOMMODATE NEW PLUMBING LINE(S).

PLUMBING ROOF PLAN SCALE: 1/4" = 1'-0"

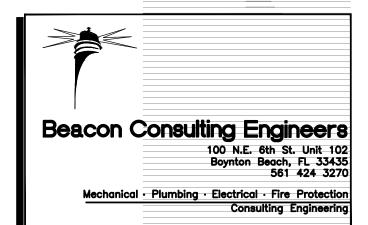
KITC	HEN/ BAR EQUIPMENT SCHEDULE:	
+	Qty.Description130" Reach-in cooler1Deep Fryer1Grill1Vent Hood14 Burner1Toaster1Toaster1Sandwich Prep Unit1Microwave1Dishwashing Machine33-Compartment Sink1Hand Sink1Tea Machine2Soda Fountain Machine3Soda Fountain Machine3Soda Fountain Machine1Soda Fountain Machine1Soda Fountain Machine1Soda Fountain Machine1Lee Maker	





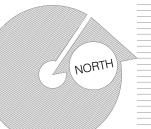
RCHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> P h: 5 6 1.2 7 2.9 0 8 6 F x: 5 6 1.2 7 2.5 6 3 6 A A C 0 0 2 0 2 9



Level II Alteration Green Owl Restaurant 11 SE 4th Ave. Delray Beach, Florida r ba, pn. 10116**.**01

Issued Date:



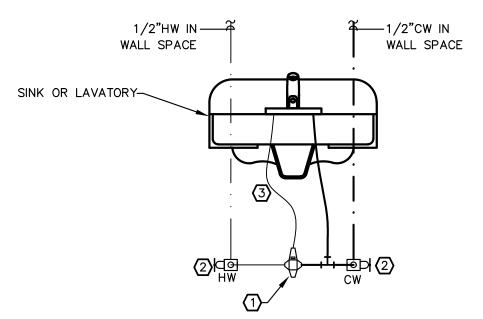
TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

PLUMBING PLANS

AS NOTED

PROGRESS SET/NFC 03/04/2016

Richard Tavares P.E Florida Reg. No. 73704



THERMOSTATIC MIXING VALVE - WATTS MMV-M1. COMPLIANT WITH ASSE 1017, ASSE 1070, & ASSE 1069. INTEGRAL CHECKS TO PREVENT CROSS-FLOW. SET TEMPERATURE TO 105° F.

(2) WATER SUPPLY STOP.

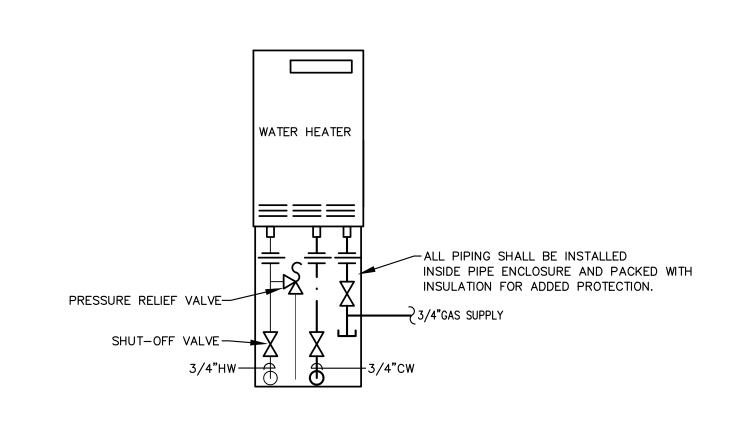
(3) 3/8" TEMPERED WATER.

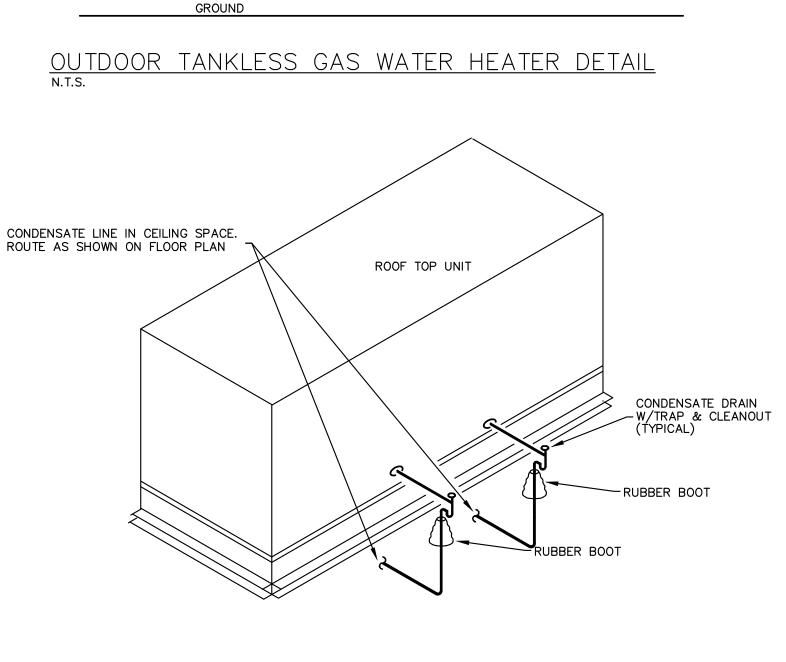
NOTES:

1. EXACT PIPING ARRANGEMENTS, LOCATION OF THERMOSTATIC MIXING VALVE AND CONNECTIONS

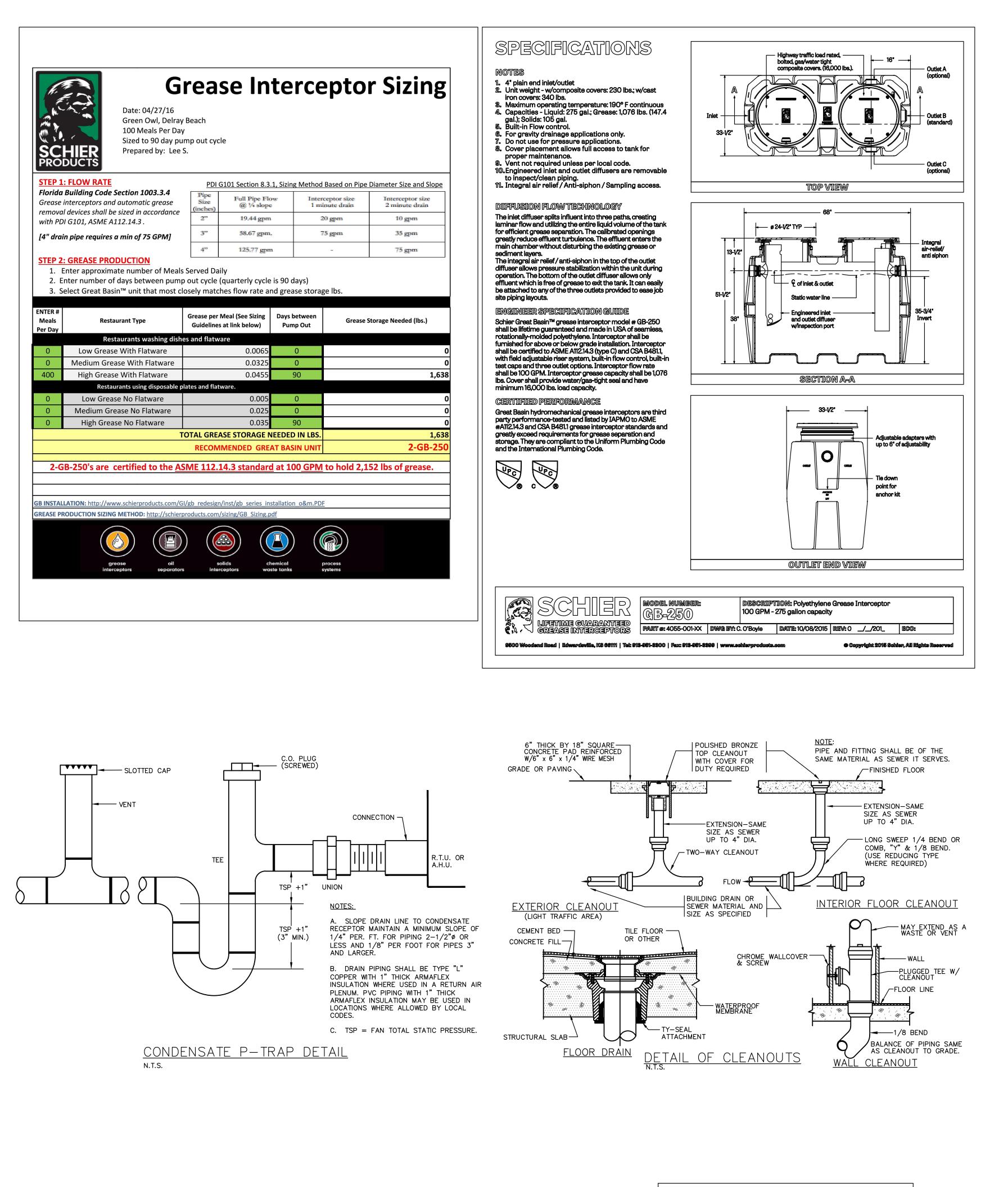
TO BE DETERMINED IN THE FIELD. 2. THERMOSTATIC MIXING VALVE SHALL BE PROVIDED AS PER 2007 FBC-PLUMBING, SECTIONS 416.5 AND 607.1.

INDIVIDUAL THERMOSTATIC MIXING VALVE DETAIL N.T.S.





ROOF TOP UNIT-CONDENSATE THRU ROOF DECK DETAIL



STATUES.



Boynton Beach, FL 33435 561 424 3270

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NORTH

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

PLUMBING DETAILS

AS NOTED PROGRESS SET/NFC 03/04/2016 ELECTRICAL GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE DRAWINGS. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER THE CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY IN WRITTEN FORM. CONTRACTOR SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL A WRITTEN DIRECTIVE HAS BEEN RETURNED. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES, WHEREIN THE CODE SHALL GOVERN.

2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL PORTIONS OF THE CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS, AND WORK OF ALL OTHER DIVISIONS/TRADES.

3. THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS, INCLUDING ALL COST FOR SHIPPING, UNLOADING, STORAGE, UNPACKING, ERECTION, ANCHORING, ETC. REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.

4. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED IN THE CONTRACT DOCUMENTS SHALL BE NEW. EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). ALL APPLICABLE LOCAL CODES, ORDINANCES AND ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ), AS A MINIMUM.

6. THE CONTRACTOR SHALL CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT.

7. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE A/E AND OWNER. THE CONTRACTOR, AT NO ADDITIONAL COSTS, SHALL PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.

8. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE REASONABLY BEEN OBSERVED BY THE CONTRACTOR WILL NOT BE RECOGNIZED.

9. THE CONTRACTOR SHALL COORDINATE ALL PROJECT SCHEDULING REQUIREMENTS WITH A/E AND OWNER PRIOR TO SUBMITTING PROPOSAL. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. THE CONTRACTOR SHALL PROVIDE ADEQUATE WORK FORCE, EQUIPMENT, AND SHALL WORK SUCH HOURS INCLUDING PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, THE CONTRACTOR SHALL ENSURE THAT LONG-LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.

10. ALL TEMPORARY DOWNTIME REQUIRED FOR SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED BY THE OWNER AND SCHEDULED IN ADVANCE.

11. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL, AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF SAID COMPLIANCE.

12. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. ANY DAMAGE TO SURROUNDING ELEMENTS RESULTING FROM THE CONTRACTOR'S FAILURE TO ADHERE TO THIS REQUIREMENT SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR, TO THE SATISFACTION OF THE A/E AND OWNER, AT NO ADDITIONAL COSTS. REPORT ANY SUCH OCCURRENCE TO THE A/E AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.

13. CONTRACTOR SHALL MAINTAIN A CURRENT ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THIS PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE A/E FOR REVIEW AND THEN SUBMITTED TO THE OWNER AT THE CONCLUSION OF THE PROJECT.

14. ALL 120V, 20A BRANCH CIRCUITS OVER 80'-0" IN LENGTH SHALL BE #10 AWG CU. CONDUCTORS, CIRCUITS OVER 150'-0" IN LENGTH SHALL BE #8 AWG CU CONDUCTORS MINIMUM TO ACCOMMODATE VOLTAGE DROP. WHERE A CONFLICT EXISTS BETWEEN THIS REQUIREMENT AND CONDUCTOR SIZES INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS, THIS REQUIREMENT SHALL TAKE PRECEDENCE.

15. IN GENERAL, VOLTAGE DROP FOR ANY BRANCH CIRCUIT SHALL NOT EXCEED 3%. VOLTAGE DROP FOR ANY FEEDER SHALL NOT EXCEED 2%. WHERE VOLTAGE DROP EXCEEDS THESE REQUIREMENTS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTORS AND RACEWAY AS REQUIRED.

16. CONTRACTOR SHALL PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS, COORDINATE LOCATIONS AND SIZES WITH THE ARCHITECTURAL AND STRUCTURAL PORTIONS OF THE CONTRACT DOCUMENTS, FIELD CONDITIONS, AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS SHALL BE SEALED WATERTIGHT.

17. WHERE OPENINGS PENETRATE A FIRE RATED FLOOR, WALL, CEILING, OR ROOF, FIRESTOPPING SHALL BE PROVIDED. MEET ALL REQUIREMENTS FOR THE U.L. ASSEMBLY AND RACEWAYS INVOLVED.

18. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE RAINPROOF TYPE NEMA 3R (MINIMUM), WHETHER INDICATED ON CONTRACT DOCUMENTS OR NOT.

19. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO THE COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS TO INCLUDE HVAC, POWER, LIGHTING AND SPECIAL SYSTEMS COMPONENTS PRIOR TO INSTALLATION, FAILURE TO COMPLY WITH THIS REQUEST MAY RESULT IN DIRECTIVE TO REMOVE SUCH SYSTEM DEVICE.

20. COORDINATE THE EXACT LOCATIONS OF ALL DEVICES (RECEPTACLES, TELECOMMUNICATIONS OUTLETS, FIRE ALARM, SECURITY, ETC.) WITH THE ARCHITECTURAL PLANS, FURNITURE SYSTEMS PLAN, OWNERS REPRESENTATIVE, APPROVED MILLWORK SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO ROUGH-IN..

21. COORDINATE THE EXACT REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO PREPARING SUBMITTALS (PRODUCT DATA & SHOP DRAWINGS). THE CONTRACTOR SHALL PROVIDE ALL RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL CIRCUITS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.

22. THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE.

23. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE.

24. ALL BRANCH CIRCUITS SHALL BE INSTALLED IN 1/2" TRADE SIZE RACEWAY MINIMUM, INCLUDING FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMC & LFMC).

25. FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E AND OWNER GRANTS WRITTEN PERMISSION. 26. PROVIDE TYPED PANEL DIRECTORIES FOR ALL PANELBOARDS.

27. ALL DEVICE OUTLET BOXES, JUNCTION BOXES, PULL BOXES, AND RACEWAYS SHALL BE CONCEALED IN CEILINGS, WALLS OR BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E AND OWNER GRANTS WRITTEN PERMISSION. 28. ALL LIGHTING FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS.

29. PROVIDE WET LOCATION LISTED FUSING AT EACH EXTERIOR LIGHTING FIXTURE THAT CONTAINS BALLASTS.

30. NEW HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT SHALL BE PROTECTED WITH HACR RATED CIRCUIT BREAKERS OR FUSES

31. ALL WIRING DEVICES WILL BE BACKWIRED.

32. ALL CONDUCTORS SHALL BE STRANDED.

33. FOR EXACT LOCATION OF NEW LIGHT FIXTURES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.

34. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE INSTALLATION WITH EXISTING CEILING CONDITIONS AND PROVIDE NECESSARY HARDWARE, OR ADJUST FIXTURE MODEL NUMBER TO INCLUDE PROPER MOUNTING OPTIONS.

ELECTRICAL GENERAL NOTES: (CONT.)

35. CONTRACTOR SHALL PROVIDE AN UNSWITCHED CIRCUIT TO NEW EXIT SIGN AND WALL MOUNTED EMERGENCY LIGHT FIXTURES. CIRCUIT SHALL BE SAME AS THAT OF THE NORMAL LIGHTING CIRCUIT FOR THE ROOM.

36. ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL HAVE AN INTEGRAL BATTERY THAT WILL PROVIDE A MINIMUM OF 90 MINUTES OF EMERGENCY OPERATION.

37. NEW LIGHT FIXTURES SHALL BE LISTED AND SUITABLE FOR THE SPECIFIC APPLICATION AND SHALL BEAR LABEL STATING SUCH. 38. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE FOR ALL DEVICES. FIXTURES AND MATERIALS USED PRIOR TO ORDERING.

39. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.

40. PROVIDE FIELD MARKINGS WARNING PERSONNEL OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.

ELECTRICAL LIGHTING LEGEND 2'x4' RECESSED LIGHT FIXTURE. 2'x2' RECESSED LIGHT FIXTURE. 0 RECESSED DOWNLIGHT. ۲<u>۲</u> EMERGENCY BATTERY BACKUP FIXTURE 20 AMP, 120/277 VOLT SINGLE POLE TOGGLE SWITCH MOUNTED 48" \$_ AFF. UNLESS OTHERWISE NOTED. (D = DIMMER SWITCH)DUAL TECHNOLOGY WALL MOUNTED VACANCY SENSOR SWITCH WITH \$_{VS} OVERRIDE 3-WAY SWITCH @ DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR SWITCH WITH OVERRIDE. 2000 WATT, 120 OR 277 VOLT PHOTOCELL WITH LIGHT LEVEL PC SELECTOR AND WALL MOUNTING BRACKET. MOUNT AS HIGH AS POSSIBLE, FACING NORTH. 40 AMP, 120 OR 277 VOLT, 24-HOUR, 7-DAY, DIGITAL DPDT TIME CLOCK WITH 16-HOUR CARRYOVER MINIMUM IN A NEMA 1 TC ENCLOSURE (NEMA 3R FOR OUTDOOR LOCATIONS). 30 AMP, 120 OR 277 VOLT ELECTRICALLY HELD MULTIPOLE LIGHTING CONTACTOR IN A NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR LOCATIONS). PROVIDE NUMBER OF POLES AS REQUIRED FOR NUMBER (\mathbf{S}) OF CIRCUITS CONTROLLED, PLUS 2 SPARES MINIMUM. CONTACTOR LABELING "C1, C2 & C3" TYPICAL FOR MULTIPLE CONTACTORS.

ELECTRICAL POWER LEGEND

X Y,Y,Y	HOMERUN TO PANEL. "X" INDICATES PANEL, "Y" INDICATES CIRCUIT NUMBER(S).
Х-Ү Ф	RECEPTACLE LABELING WHEN <u>NOT</u> SHOWING CONDUIT AND WIRE. "X" INDICATES PANEL, "Y" INDICATES CIRCUIT NUMBER(S), (TYPICAL FOR ALL POWER SYMBOLS). MOUNTING HEIGHT 18" A.F.F. TO Q .
-	QUADRUPLEX RECEPTACLE
الله الم	CEILING MOUNTED DROP CORD WITH DUPLEX RECEPTACLE (EX – INDICATES EXISTING TO REMAIN)
-	RECEPTACLE, ABOVE THE COUNTER
Φ	RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER
P	SPECIAL PURPOSE RECEPTACLE – PROVIDE MATCHING PLUG AS REQUIRED.
▼	DATA AND TELEPHONE OUTLET MOUNTED 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE X 2 $1/2$ " BOX WITH SINGLE GANG PLASTER RING AND 1"C
С	DENOTES ABOVE THE COUNTER. COORDINATE HEIGHT OF THE OUTLET WITH THE COUNTER OR MILLWORK BEFORE ROUGH-IN. REFER TO ARCHITECTURAL PLANS FOR COUNTER HEIGHTS
٩	JUNCTION BOX MOUNTED IN OR ABOVE CEILING.
X NF WP	NONFUSED DISCONNECT SWITCH. XX=AMP SIZE, X=POLES AND ENCLOSURE AS INDICATED. "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
100A 80A ₪ _{WP}	FUSED DISCONNECT SWITCH. AMP SIZE, POLES, FUSING AND ENCLOSURE AS INDICATED. "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
VSD	VARIABLE SPEED DRIVE UNIT.
	SURFACE MOUNTED POWER OR APPLIANCE PANELBOARD.
	FLUSH MOUNTED POWER OR APPLIANCE PANELBOARD.
\otimes	MOTOR OUTLET, "X" INDICATES ESTIMATED HORSEPOWER.
	TRANSFORMER.
OC E \$	MOTOR RATED OCCUMPANCY SENSOR, 120V
NOTE: NOT ALL SY	MBOLS ARE USED.

ELECT	RICAL SYSTEMS LEGEND
H	CEILING MOUNTED ADDRESSABLE COMBINATION FIXED TEMPERATURE AND RATE OF RISE HEAT DETECTOR.
S	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR.
Ō	SINGLE ACTION MANUAL PULL STATION MOUNTED 48" AFF, UNLESS OTHERWISE NOTED.
	FIRE ALARM SPEAKER AND VISUAL UNIT MOUNTED AT 80" AFF, UNLESS OTHERWISE NOTED. "X" INDICATES CANDELA INTENSITY.
L	FIRE ALARM VISUAL UNIT ONLY MOUNTED AT 80" AFF, UNLESS OTHERWISE NOTED. "X" INDICATES CANDELA INTENSITY.
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
P	VACANCY LIGHT SWITCH
	VACANCY SENSOR
*	COMBINATION EXIT AND EMERGENCY LIGHT FIXTURE
NOTE:	I

NOT ALL SYMBOLS ARE USED.

COORDINATION NOTE:

EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF HIS EQUIPMENT AND WORK WITH THE GENERAL CONTRACTOR AND WORK OF ALL OTHER CONTRACTORS, SUB CONTRACTORS AND TRADES. ANY AND ALL EQUIPMENT, FIXTURES AND/OR MATERIAL REMOVED AND/OR INSTALLED WITHOUT THE PROPER COORDINATION SHALL BE REMOVED AND/OR REINSTALLED AT NO ADDITIONAL EXPENSE TO THE OWNER.

AS BUILT NOTE:

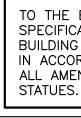
AS-BUILT CONDITIONS MAY NOT COINCIDE WITH THOSE INDICATED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION, BUT NOT LIMITED TO, ALL THE ITEMS LISTED FOR DEMOLITION IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING WORK AS REQUIRED TO COMPLETE THE NEW WORK.

ELEC	TRICAL SHEET INDEX
E0.1	ELECTRICAL – LEGENDS, NOTES & SHEET INDEX
E1.1	ELECTRICAL FLOOR & ROOF POWER PLANS
E2.1	ELECTRICAL FLOOR LIGHTING PLAN
E3.1	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES

ELECTRICAL DEMOLITION NOTES:

- DEMOLITION EFFORT.

- PROJECT. IF NOT, THEY SHALL BE COMPLETELY REMOVED.
- NEW) WITH UTILITY.



CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING ANY

COORDINATE ALL WORK AND PHASING (DEMOLITION AND NEW) WITH ARCHITECTURAL AND OTHER M.E.P. CONTRACT DOCUMENTS. ALSO COORDINATE ALL WORK (DEMOLITION AND NEW) WITH ALL CONTRACTORS

COMPLETELY REMOVE ALL ELECTRICAL COMPONENTS INCLUDING, BUT NOT LIMITED TO: WIRING, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, EXHAUST FANS, ALARM DEVICES, SPEAKERS, J-BOXES, SAFETY SWITCHES, PANELBOARDS.

CONDUIT & RACEWAY MAY BE REUSED IF IN GOOD CONDITION AND MEETS N.E.C. AND SPECIFICATION REQUIREMENTS OF THIS

REMOVE SERVICE PANELS, METERS, C.T. ENCLOSURES, RISERS, SAFETY SWITCHES, ETC. COORDINATE ALL WORK (DEMOLITION AND



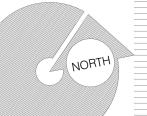
RCHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> Ph: 561.272.9086 F x: 5 6 1.2 7 2.5 6 3 6 <u>AAC002029</u>

Beacon Consulting Engineers 100 N.E. 6th St. Unit 102 Boynton Beach, FL 33435 561 424 3270 lechanical • Plumbing • Electrical • Fire Protection Consulting Engineering

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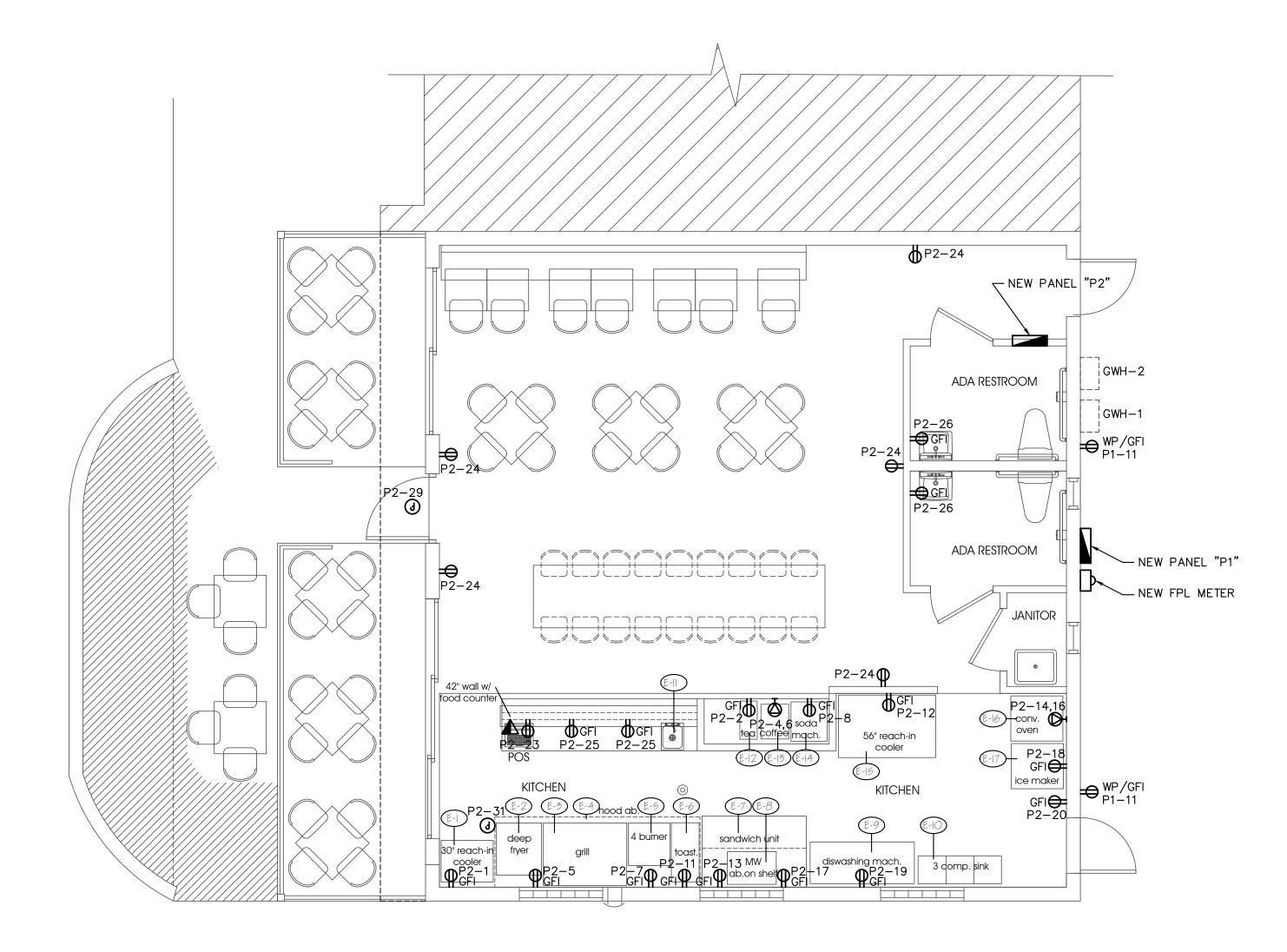


TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

ELECTRICAL NOTES

AS NOTED PROGRESS SET/NFC 03/04/2016 Joeven M. Valenzuela P.E. Florida Reg. No. 60287





ELECTRICAL FLOOR POWER PLAN

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

SHEET KEY NOTES:

- T FOR DESCRIPTION OF ITEM NUMBERS SEE EQUIPMENT SCHEDULE ON THIS SHEET.
- $\langle 2 \rangle$ PER NFPA 96 SECTION 8.3.2. WHEN FIRE EXTINGUISHING SYSTEM DISCHARGES, INTERLOCK AHU'S WITH ANSUL SYSTEM TO SHUT DOWN UPON ACTIVATION.
- (3) THE COOKING EQUIPMENT UNDER THE HOOD IS TO BE INTERLOCKED WITH THE KITCHEN HOOD EXHAUST FAN SO THE KITCHEN EQUIPMENT CANNOT OPERATE UNLESS THE HOOD EXHAUST FAN IS OPERATING.
- 4 PER FBC BUILDING 904.11.2. THE ACTUATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND ELECTRICAL SUPPLY RESET SHALL BE MANUAL. ELECTRICAL CONTRACTOR TO SUPPLY SHUNT TRIP BREAKER AT PANEL LINKED WITH ANSUL SYSTEM.
- 5 ALL RECEPTACLES INSTALLED IN COOKING, PREPARATION AND KITCHEN AREAS SHALL BE "GFI" TYPE RECEPTACLES PER THE NATIONAL ELECTRICAL CODE.

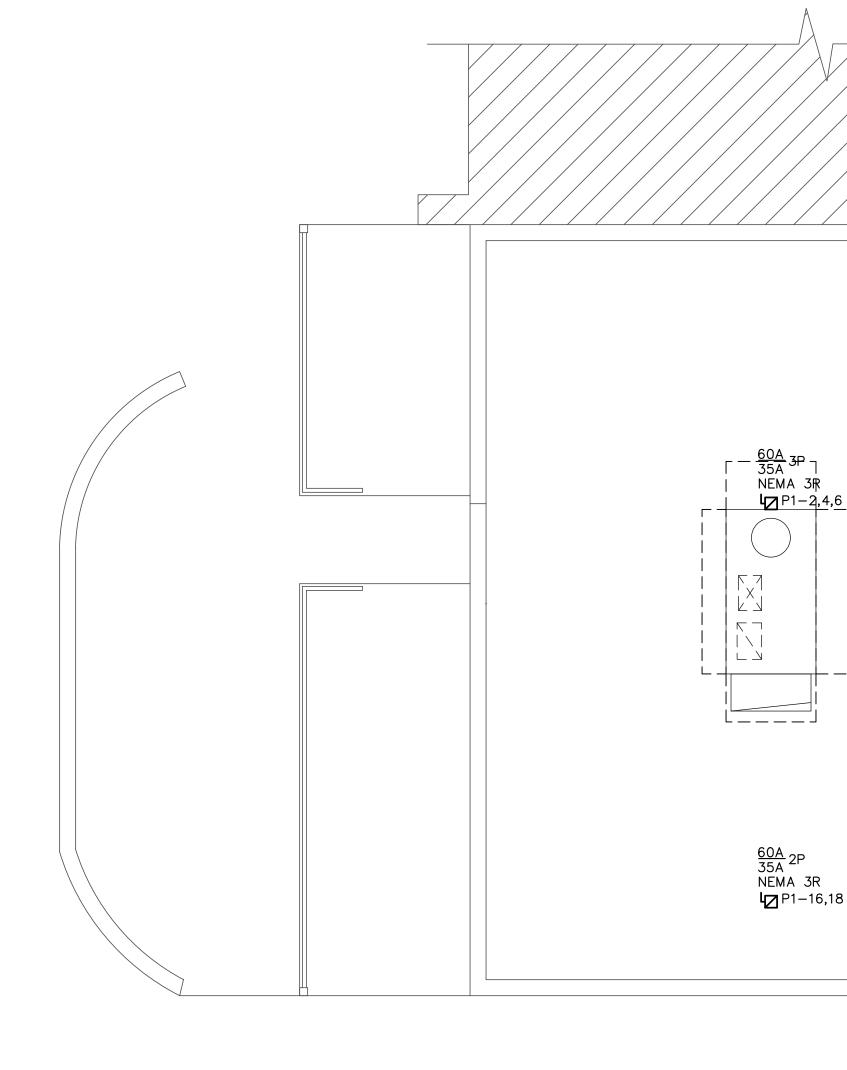
GENERAL NOTES:

- 1. CONDUIT AND EQUIPMENT LOCATIONS ARE SHOWN FOR INFORMATION ONLY. VERIFY WITH ARCHITECT/OWNER FOR EXACT LOCATIONS PRIOR TO CONSTRUCTION.
- 2. ALL ELECTRICAL CONDUITS ARE TO BE RUN OVERHEAD, TYPICAL UNLESS OTHERWISE NOTED.

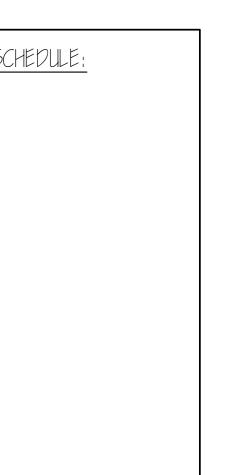
COORDINATION NOTE:

CONTRACTOR(S) SHALL VERIFY ALL TENANT STANDARDS AND PROCEDURES, FLOOR PLANS, LAYOUTS, EQUIPMENT MANUFACTURERS AND MODELS, LIGHTING, AND ALL INSTALLATIONS AND REQUIREMENTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL OF THESE REQUIREMENTS AND ASSOCIATED INSTALLATIONS WITH TENANT, AND ARCHITECTURAL AND MEP CONTRACT DOCUMENTS.

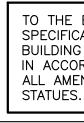
	KITC	THEN/	BAR EQUIPMENT SC
		<u>CHEN/</u> <u>Qty,</u> 	BAR EQUIPMENT SC <u>Description</u> 30'' Reach-in cooler Deep Fryer Grill Vent Hood 4 Burner Toaster Sandwich Prep Unit Microwave Dishwashing Machine 3-Compartment Sink Hand Sink Tea Machine Coffee Machine Soda Fountain Machine
E-15 E-16 E-17			5611 Reach-in cooler Convection Oven Ice Maker

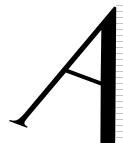


ELECTRICAL ROOF POWER PLAN



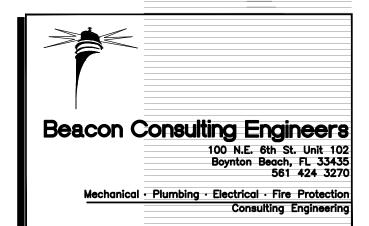
SCALE: 1/4" = 1'-0"





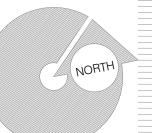
CHITECTURE

RICKBRAUTIGAN 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> P h: 5 6 1.2 7 2.9 0 8 6 F x: 5 6 1.2 7 2.5 6 3 6 AAC002029





Issued Date:



TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

60A 60A 2P NEMA 3R

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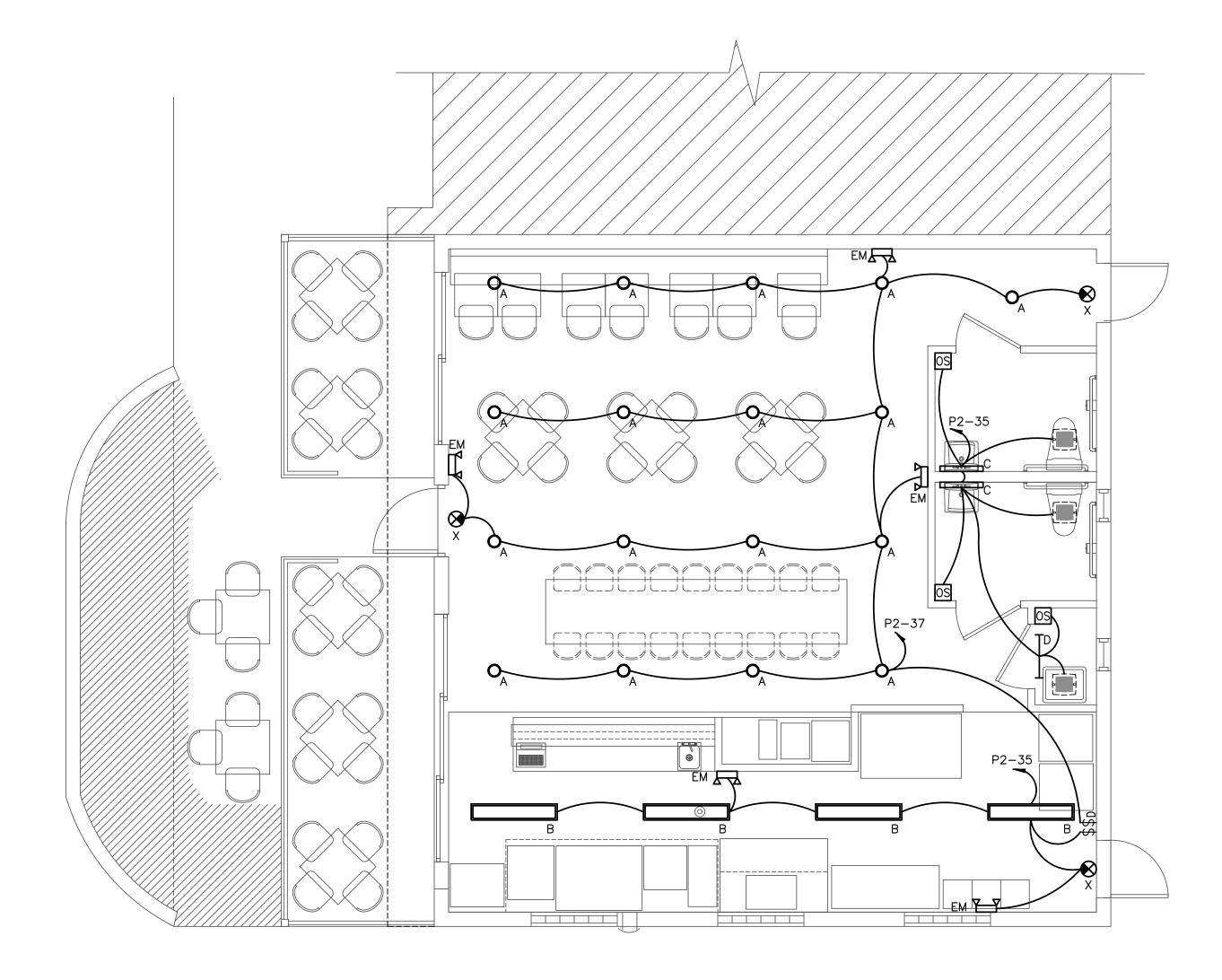
<u>60A</u> 2P 35A 2P NEMA 3R **I∕_**P1−12,14

ELECTRICAL PLANS

AS NOTED

PROGRESS SET/NFC 03/04/2016

Joeven M. Valenzuela P.E. – Florida Reg. No. 60287 –



ELECTRICAL LIGHTING PLAN SCALE: 1/4" = 1'-0"

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	LIGHTING FIXTURE SCHEDULE														
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMPS	мои									
A	RECESSED LED DOWNLIGHT	DMF LIGHTING	DRD2M10935/DRD2TRJSWH	120	LED	RECE									
В	4' LOW PROFILE WRAPAROUND	COLUMBIA LIGHTING	LAW4-35ML-EU	120	LED	SURF									
С	SURFACE FIXTURE OVER MIRROR	-	-	120	-	SURI									
D	24" SURFACE STRIP	-	-	120	-	SURI									
EM	LED EMERGENCY LIGHT WITH 90 MIN. BATTERY BACKUP	EVENLITE	TCL2-W	120	LED	SURI									
X	LED EXIT LIGHT	EVENLITE	TLX-EM-RU-W	120	LED	SURI									

STATUES.



REMARKS

VOLT LAMPS MOUNTING

RECESSED

SURFACE

SURFACE

SURFACE

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SURFACE

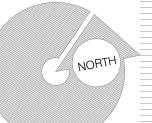
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RickBrautigan 1025SDixie Highway Delra<mark>y Beach, FL 33483</mark> P h: 5 6 1.2 7 2.9 0 8 6 F x: 5 6 1.2 7 2.5 6 3 6 A A C 0 0 2 0 2 9

> <Beacon Consulting Engineers 100 N.E. 6th St. Unit 102 Boynton Beach, FL 33435 561 424 3270 hanical • Plumbing • Electrical • Fire Protecti

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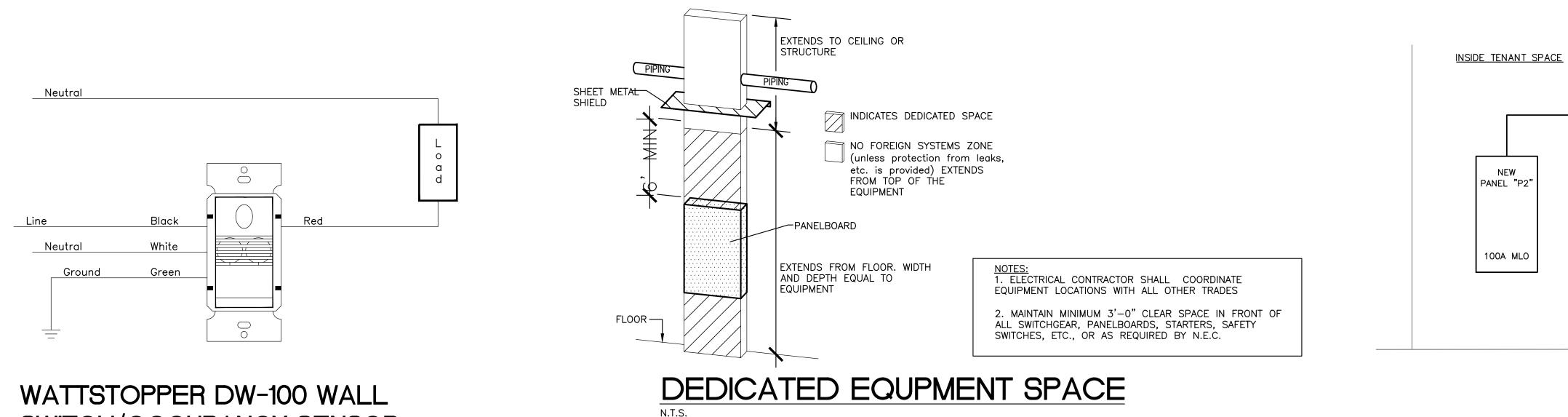


TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

LIGHTING PLAN

AS NOTED

PROGRESS SET/NFC 03/04/2016



SWITCH/OCCUPANCY SENSOR

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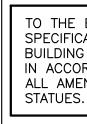
A.I.C. RATING <u>10,000 AIC</u> TYPE <u>SQ. D NQOB</u> MOUNTING <u>FLUSH</u>				fed f P <i>A</i>	ANEL	<u>pane</u> P2										MAINS <u>100A MLO</u> BUS RATING <u>100A</u> VOLTAGE <u>120/240V, 3PH, 4</u> W		
RECODIDITION		000		00					ILOWAT		OVT			000	WIDE	DECODIDITION		
DESCRIPTION RECEPT – REACH-IN COOLER (E-1)	WIRE	GRD.	COND. 3/4"	CB 20	CKT. A	В	С	A 1.7	В	C	CKT.	CB 20	COND. 3/4"	GRD.	WIRE		_	
SPACE	2#12	# 12	3/4		1 0.9			1.7	7.4		2		3/4		2#12	RECEPT – TEA MACHINE (E–12)	_	
	-	-	- 7/4"	20	3				3.4		4	40	3/4	# 10	2#8	RECEPT – COFFEE MACHINE (E-13)		
RECEPT – FRYER & GRILL (E-2 & 3) RECEPT – 4–BURNER (E-5)		#12	3/4" 3/4"	20	5		0.2	1.2		3.4	6	- 20	7 / 4"	#10	0 //1 0	RECEPT – SODA FOUNTAIN (E-14)	_	
SPACE	2#12	# 12	5/4		7 0.2			1.2			8	20	3/4"	<i>#</i> 12	2#12	SPACE	_	
RECEPT – TOASTER (E-6)	 2#12	-	3/4"	20	9 11		1.7		// - //////////////////////////////////	4 7	10	20		-	-	RECEPT - REACH-IN COOLER (E-15)		
RECEPT - TOASTER (E-6) RECEPT - SANDWICH PREP UNIT (E-7)		#12 #12	3/4	20	13 1.1		1.7	4.0		1.3	<u>12</u> 14	40	3/4		2#12 2#8	RECEPT - REACH-IN COOLER (E-15) RECEPT - CONVECTION OVEN (E-16)		
SPACE	2#12	#1Z						4.0	4.0		16	40	3/4	#10	2#0	RECEPT - CONVECTION OVEN (E-10)		
RECEPT – MICROWAVE (E–8)	2#12	 #12	3/4"	20	17		1.5		4.0	1.6	18	20	3/4"	# 12	2#12	RECEPT – ICE MAKER (E-17)		
RECEPT – DISHWASHER (E-9)	2#12 2#12	#12 #12	3/4	20	19 1.1		1.5	0.2			20	20	3/4"		2#12 2#12	RECEPT - GENERAL (KITCHEN)		
SPACE	<u> </u>	#12 —			21			0.2			20			<u> </u> #12		SPACE		
RECEPT - POS	2#12	<i>#</i> 12	3/4"	20	23		1.0			1.1	24	20	3/4"	#12	2#12	RECEPTS – GENERAL (DINING)	-	
RECEPTS – SM. APP.	2#12 2#12	#12 #12	3/4"	20	25 1.5		1.0	0.4			24	20	3/4"	#12 #12	2#12	RECEPTS – RESTROOMS	-	
SPACE	<u> 2</u> #12	<u><u></u>#'2</u>			27						28		-	<u><u></u>#'2</u>		SPACE	-	
J-BOX - SIGN **	2#12	#12	3/4"	20	29		1.2				30	20	_	_	_	SPARE	_	
J-BOX - HOOD CONTROLS & LIGHTS	2#12 2#12	#12	3/4"	20	31 0.3						32	20	_	_	-	SPARE	-	
SPACE	<u>-</u>	<u><u></u><u></u><u></u><u></u><u></u></u>			33	<u> </u>					34		_	_	-	SPACE		
LIGHTING – KITCHEN, JAN, RR'S	2#12	<i>#</i> 12	3/4"	20	35		0.4				36	20	_	_	-	SPARE	-	
LIGHTING – DINING	2#12	#12	3/4"	20	37 0.3			-			38	20	-	_	-	SPARE		
SPACE			-	_	39	<u> </u>					40	_	-	_	-	SPACE		
SPARE	_	_	-	20	41		<u> </u>			-	42	20	_	_	-	SPARE		
			S	JBTOTA		0.0	6.0	7.5	7.4	7.4								
		TOTA	L LOAD ,	/ PHAS	E		12.9 7.	4 13.4	4								∎⊢	
LEGEND: ** – INDICATES CIRCUIT CONTRO VIA TIME CLOCK	DLLED				L CONNECTI L CONNECTI													CALCULATED DEMAND LOAD SUMMAR NON-DEMAND LOADS @ 100% 5.7 KW LIGHTING (0.7) @ 125% 0.9 KW KITCHEN EQUIP. (27.3) @ 65% 17.7 KW TOTAL CALCULATED DEMAND 24.3 KW

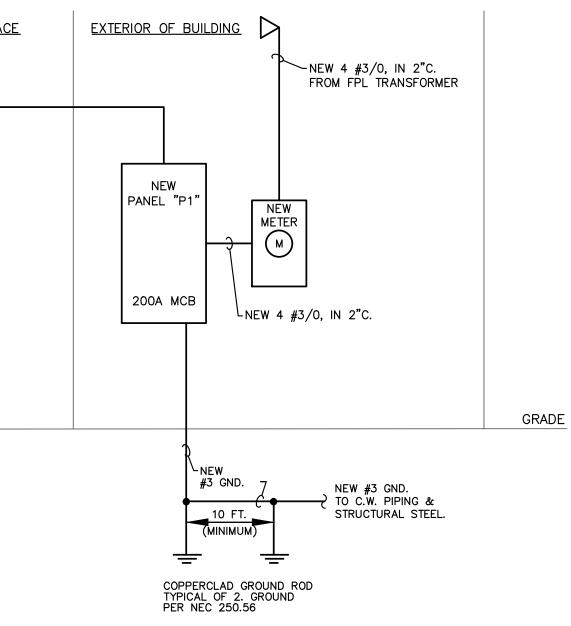


NEW PANEL "P2"

100A MLO

A.I.C. RATING <u>10,000 AIC</u> TYPE <u>SQ. D NQOB NEMA 3</u> MOUNTING <u>SURFACE</u>	<u>3R</u>			fed fi PA	rом \NEl	-		<u>ting</u> (NE	<u>meter</u> W)	CE	NTER						MAINS BUS RATING VOLTAGE	200A MCB 225A 120/240V, 3PH, 4W
		0.000	0.0110	0.5			LOWAT			LOWA		0.7			000			
DESCRIPTION PANEL "P2"	WIRE	GRD.	COND. 2"	CB	CKT.		B	С	A	В	C	CKT.	CB 35	COND.	GRD.	WIRE	DESCRIPTION	
PANEL PZ	4#3/0	# 6	2	100	1 3 5	12.9	7.4	13.4	4.0	4.0	4.0	2 4 6	35	3/4"	# 10	3#8	RTU-1	
RECEPT - ROOF	2#12	<i>#</i> 12	3/4"	20		0.2			5.0			8	60	1"	# 10	2#6	RTU-2	
SPACE	-	—	-	-	9		-			5.0		10						
RECEPTS - EXTERIOR	2 # 12	# 12	3/4"	20	11			0.4			3.4	12	35	3/4"	# 10	3#8	HOOD SF-1	
SPARE	-	-	-	20	13	-			3.4			14						
SPACE	-	_	-	_	15		_			3.4		16	35	3/4"	# 10	3#8	HOOD EF-1	
SPARE	-	-	_	20	17			_ 			3.4	18						
SPARE		-	-	20	19	-			-			20	20	-	-	-	SPARE	
SPACE	-	-	-	-	21) –			_		22	_	-	-	-	SPACE	
SPACE	-	-	-	-	23			_ 			// -	24	-	-	-	-	SPACE	
SPACE	_	_	_	_	25	-			-			26	-	-	-	-	SPACE	
SPACE	-	-	-	_	27		_					28	-	-	-	-	SPACE	
SPACE SPACE	-	-	-	-	29				_		// /////////////////////////////	30	-	-	_	-	SPACE SPACE	
SPACE	-	-	-	-	31				-			32	-	-	-	-	SPACE	
SPACE	-	_	_	_	33 35		» —			2 – 2 –		34 36		_	-	-	SPACE	
SPACE	-	_	-	_	35							30	-	-	-	-	SPACE	
SPACE	-	_	-	_	39							<u> </u>	_	-	_	-	SPACE	
SPACE	_	_	_	_	41			_				40	_	_	_	_	SPACE	
			1 1	UBTOTAI		13.1	7.4	13.8	12.4	12.4	10.8	42						
		ΤΟΤΑ	LLOAD			1.0			9.8 24.6			J						
				ΤΟΤΑΙ	L CON		ED LOA	AD = 6	59.9 KW 58.4 AM	_								









ELECTRICAL RISER DIAGRAM

CALCULATED DEMAND LOAD SUMMARY NON-DEMAND LOADS @ 100% 41.9 KW LIGHTING (0.7) © 125% 0.9 KW KITCHEN EQUIP. (27.3) © 65% 17.7 KW TOTAL CALCULATED DEMAND 60.5 KW TOTAL CALCULATED DEMAND 145.7 AMPS

Level II Alteration Green Owl Restaurant 11 SE 4th Ave. Delray Beach, Florida

rba, pn. 10116.01

Issued Date:

Joeven M. Valenzuela P.E. – Florida Reg. No. 60287 –

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA

RISER & SCHEDULES

AS NOTED PROGRESS SET/NFC 03/04/2016