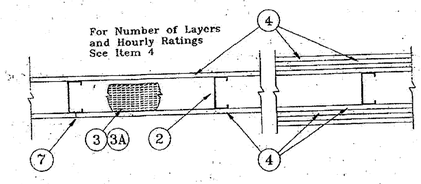
Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

3A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2,

IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X
ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, 2 f wide, tongue and groove edge, applied horizontally as the outer la to one side of the assembly. Secured as described in Item 5. Joint c ing (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to a panels to studs (Item 2) or furring channels (Item 6). **Single layer s tems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long f 3/4 in. thick panels, spaced 8 in. OC when panels are applied hori tally, or 8 in. OC along vertical and bottom edges and 12 in. OC in field when panels are applied vertically. Two layer systems: First la 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, space in. OC with screws offset 8 in. from first layer. **Three-layer systems** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, space in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws off min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. lo for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-3 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third la 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. th panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Scre offset min 6 in. from layer below.

6. **Furring Channels** — (Optional, not shown, for single or double la systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flan portion attached to each intersecting stud with 1/2 in. long Type S steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)*** — (Optional on one or bo sides, not shown, for single or double layer systems) — As an alter to Item 6, furring channels and Steel Framing Members as describe below:
   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/ wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular t studs. Channels secured to studs as described in Item b. Gyp board attached to furring channels as described in Item 5. N use with Item 4A.
   b. **Steel Framing Members*** — Used to attach furring channels (Item 6a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling S-12 steel screw through the center grommet. Furring channe are friction fitted into clips.
PAC INTERNATIONAL INC —Type RSIC-1.

7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joi compound applied in two coats to joints and screw heads of outer ers. Paper tape, nom 2 in. wide, embedded in first layer of compou over all joints of outer layer panels. Paper tape and joint compoun may be omitted when gypsum panels are supplied with a square e

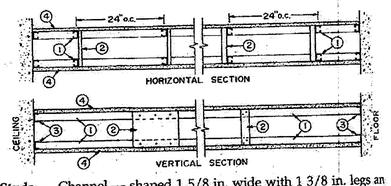
8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, v or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each with steel screws, not more than each sixth course of brick.

9. **Caulking and Sealants*** — (Optional, not shown) — A bead of ac tical sealant applied around the partition perimeter for sound cont
UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

Design No. U420

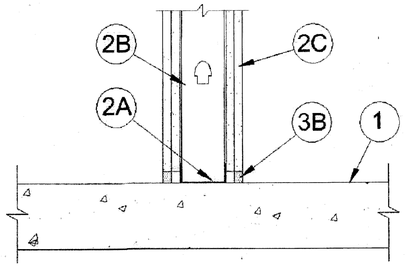
Nonbearing Wall Rating — 1 or 2 HR.



1. **Studs** — Channel — shaped 1 5/8 in. wide with 1 3/8 in. legs an in. stiffening flanges. Fabricated from No. 25 MSG galv steel. Stud be cut 1/4 in. less than assembly height.
2. **Bracing** — Cut from the steel runners, min. 4-1/4 in. long, faste

System No. BW-S-0003

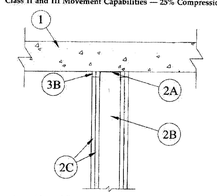
Assembly Ratings — 1 and 2 Hr (See Item 2)
Joint Width — 3/4 In. Max



1. **Floor Assembly** — Min 4-1/2 in. thick reinforced lightweight or normal weight (100?150 pcf) structural concrete. Floor may also be constructed of any 6 in. thick UL Classified hollow-core **Precast Concrete Units***.
   See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufactures.
2. **Wall Assembly** — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
   A. **Steel Floor Runner** — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. flanges. Runners secured with steel fasteners spaced 12 in. OC.
   B. **Studs** — Steel studs to be min 3-1/2 in. wide. Studs cut 1/2 to 3/4 in. less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. OC.
   C. **Gypsum Board*** — Gypsum board installed to a min total thickness of 5/8 in. or 1?1/4 in. on each side of wall for a 1 or 2 hr rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 3/4 in. gap shall be maintained between the bottom of the gypsum board and the top of the concrete floor.
   The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.
3. **Joint System — Max separation between top of floor and bottom of gypsum board is 3/4 in.** The joint system consists of a packing material and a fill material, as follows:
   A. **Packing Material** — (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber insulation firmly packed into the gap between the bottom of the gypsum board and the top of the concrete floor and recessed from each surface of the wall to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Material*-Sealant** — Min 1/2 in. thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall. When mineral wool batt insulation is used as a packing material, min thickness of fill material on each side of the wall is 1/4 in.
SPECIFIED TECHNOLOGIES INC —SpecSeal ES Sealant, SpecSeal LCI Sealant

*Bearing the UL Classification Mark

System No. HW-D-0016
Assembly Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width — 1 in.
Class II and III Movement Capabilities — 25% Compression



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/cu meter)) structural concrete.
2. **Wall Assembly** — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400-Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor and Ceiling Runners** — Floor runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runners of wall assembly shall consist of min No. 26 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runners to be provided with 2 in. (51 mm) flanges. Ceiling runner secured to lower surface of floor with steel fasteners spaced max 7 in. (178 mm) OC.
   A1. **Light Gauge Framing* — Clipped Ceiling Runner** — As an alternate to the ceiling runner in Item 2A, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 2-1/2 in. (64 mm). Clipped ceiling runner installed to concrete floor (Item 1) with steel fasteners spaced max 24 in. (610 mm) OC.
TOTAL STEEL SOLUTIONS L L C — Snap Trak
   A2. **Light Gauge Framing —Floor and Ceiling Runnes** — As an alternate to the ceiling and floor runners in Item 2A and 2A1, floor and ceiling runners to consist of galv steel channel sized to accommodate the **Light Gauge Framing* Slotted Stud** (Item 2B1) or **Light Gauge Framing* Slider C-Clip System** (Item 2B2). Floor and ceiling runners to be provided with min 1-1/4 in. (32 mm) and 3 in. (76 mm) flanges, respectively. Ceiling runner secured to lower surface of floor with steel fasteners spaced max 12 in. (305 mm) OC.
STEELER INC — Floor and Ceiling Runners
   A3. **Light Gauge Framing* - Slotted Ceiling Runner** — As an alternate to the ceiling runner in Items 2A, 2A1 and 2A2, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to concrete floor with steel fasteners spaced max 24 in. (610 mm) OC.
SLIPTRACK SYSTEMS INC — SLP-TRK
   B. **Studs** — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1 in. (25 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A3) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC.
   B1. **Light Gauge Framing* —Slotted Studs** — Slotted steel stud to be used in conjunction with **Light Gauge Framing* —Floor and Ceiling Runners** (Item 2A4). Slotted steel studs to be min 2-1/2 in. (64 mm) wide. Slotted steel studs cut 1 in. (25 mm) less in length than assembly height with bottom nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.
STEELER INC — Slotted Stud
   B2. **Light Gauge Framing* —Slider C-Clip System** — As an alternate to the **Light Gauge Framing* —Slotted Steel Studs** (Item 2B1), a Slider C-Clip System consisting of a C shaped steel clip with a slotted opening and a steel stud to be used in conjunction with **Light Gauge Framing —Floor and Ceiling Runners** (Item 2A2). Steel clips and studs to be min 2-1/2 in. (64 mm) wide. Steel clip inserted into inside flange of steel stud without attachment. Total length of steel stud cut 1 in. (25 mm) less than assembly height with bottom of steel stud nesting in and secured to floor runner. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Ceiling runner secured to steel C-Clip by means of No. 10 by 3/4 in. (19 mm) long pan head steel screw located 3/8 in. (10 mm) below top of ceiling runner. Top row of gypsum board screws shall be centered within the preformed slot of the C-Clip. Steel stud and steel clips spacing not to exceed 24 in. (610 mm) OC.
STEELER INC — Slider C Clip System
   C. **Gypsum Board*** — Gypsum board sheets installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 h fire rated wall, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The top row of screws shall be installed into the studs 4 in. (102 mm) below the lower surface of the floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

Joint System — Max separation between bottom of floor and top of wall (at time of installation of joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression from its installed width. The joint system consists of a packing or forming material and a fill material between the top of the wallboard and the bottom of the floor, as follows:
   A. **Packing Material** — (Optional, Not Shown)—For 2 h rated systems, two layers of nom 7/8 in. (22 mm) diam polyurethane backer rod friction-fitted on top of each other into the gap between the top of the gypsum board and the bottom of the concrete floor on both sides of the wall and recessed from each surface of wall to accommodate the required thickness of fill material.
   A1. **Forming Material*** — (Optional, Not Shown)—For 2 h rated systems, min 3/4 in. (19 mm) width of 4 pcf (64 kg/cu meter) mineral wool batt insulation compressed 50 percent in thickness and packed into the gap between the top of the gypsum board and bottom of the floor on both sides of the wall.
FIBREX INSULATIONS INC —FIBX Safing Insulation
HG MINWOOL L L C — MinWool-1200 Safing
ROCK WOOL MANUFACTURING CO —Delta Board or Delta-8
ROXUL INC —Type Safe
THERMAFIBER INC —Type SAF
   B. **Fill, Void or Cavity Material*** — A min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and bottom of the concrete floor. As an option for 1 hr systems and in 2 hr systems where packing material (Item 3A) or forming material (Item 3B) are not used, bond breaker tape may be applied to ceiling runner on each side of wall.
TREMCO INC —TREMstop Acrylic or Fyre-Sil

*Bearing the UL Classification Mark

1

12/4/10

No.	Date	Revision
1	10.29.10	PERMIT COMMENTS

Owner:
FERRADO LIDO, LLC
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
UL DETAILS

Drawn By: AJM
Issue Date: 8.12.09
Checked By: AJM
Scale: 1/4" = 1'-0"

A-11
Drawing No.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH THE WORK.

2. ALL WORK SHALL CONFORM WITH CURRENT APPLICABLE BUILDING AND ZONING CODES AND ORDINANCES, "THE AMERICANS WITH DISABILITIES ACT", FIRE DEPARTMENT REGULATIONS AND MANUFACTURER'S SPECIFICATIONS.

3. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND WITH INFORMATION FURNISHED BY THE OWNER AND SHALL AT ONCE REPORT ANY CONFLICTS, DISCREPANCIES OR NONCONFORMITY WITH THE BUILDING CODE NOTED BY THE CONTRACTOR OR SUBCONTRACTOR , AND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING.

4. IN CASES OF CONFLICT WHERE THE METHODS OR STANDARDS OF INSTALLATION, OR THE MATERIALS SPECIFIED, DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. CONTRACTOR IS TO NOTIFY THE ARCHITECT OF ANY AND ALL CONFLICTS IN WRITING.

5. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUALITY OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS CONCEALED BELOW FLOOR AND ABOVE CEILINGS, INCLUDING, BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, TELEPHONE, COMMUNICATIONS, SECURITY AND FIRE ALARM SYSTEMS. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

6. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT. DISCREPANCIES SHALL BE NOTIFIED TO THE ARCHITECT AT ONCE BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DRAIN PIPES, DOORWAYS AND VENTILATION OPENINGS SO AS NOT TO INTERFERE WITH THE LOCATIONS OF ARCHITECTURAL FINISH ITEMS INDICATED ON THE DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

8. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY LOCATIONS OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS, OR OTHER CONDITIONS EXISTING, PRIOR TO DRILLING OR CUTTING OF SLABS OR STRUCTURAL MEMBERS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS.

9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY WITH THE ARCHITECT, IN WRITING, ANY DIMENSIONS OR DISCREPANCIES ARISING FROM INFORMATION CONTAINED IN THE SPECIFICATIONS AND DRAWINGS.

10. THE CONTRACTOR SHALL BE GOVERNED AS INDICATED ON THE DRAWINGS. UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND / OR COORDINATING ALL ITEMS NOTED IN THE CONTRACT DOCUMENTS.

11. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE ARCHITECT AND OWNER HARMLESS FOR INJURY OR DEATH TO PERSONS, OR FOR DAMAGE TO PROPERTY CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR, HIS AGENTS, EMPLOYEES OR SUBCONTRACTORS.

12. THE ARCHITECT SHALL NOT BE OBLIGATED TO ACT AS AN ARBITER BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS, OR BETWEEN SUBCONTRACTORS, DUE TO REAL OR ALLEGED ERROR IN THE ARRANGEMENT OF THE CONTENTS OF THE CONTRACT DOCUMENTS.

13. BIDDER MUST REVIEW ALL PLANS WITH ARCHITECT PRIOR TO BIDDING WORK. ARCHITECT SHALL ASSUME NO RESPONSIBILITY WHEN BIDDER HAS NOT VIEWED THE NATURE OF THE WORK. IF DOUBT EXISTS IN THE MIND OF THE BIDDER AS TO THE TRUE MEANING OF ANY PART OF THE CONTRACT DOCUMENTS, HE MUST REQUEST THIS INFORMATION, AND / OR CLARIFICATION, IN WRITING, ARCHITECT OR ENGINEERS SHALL RESPOND TO ANY INQUIRY IN WRITING.

14. CONTRACTOR SHALL INCLUDE WITHIN THE BID COSTS ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, HOSTING, ADMINISTRATION, FIELD SUPERINTEND AND COORDINATION OF ALL SUBCONTRACTORS AND ALSO OTHER CONTRACTORS OR VENDORS RETAINED BY THE OWNER, AS REQUIRED FOR COMPLETION OF THE WORK.

15. BID SHALL BE BASED ON WORK BEING PERFORMED DURING NORMAL WORKING HOURS.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN THE AREA OF WORK IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES.

17. ALL INFORMATION SHOWN ON THE DRAWINGS IS RELATIVE TO EXISTING CONDITIONS, AND IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT ANY GUARANTEE OF ACCURACY.

18. THROUGHOUT THE DRAWINGS ARE ABBREVIATIONS WHICH ARE IN COMMON USE. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY WHICH MAY BE FOUND IN QUESTION.

19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND COORDINATION OF ALL TRADES TO ASSURE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS, AND WITH THE CONSTRUCTION SCHEDULE.

20. THE GENERAL CONTRACTOR SHALL COORDINATE, SUPERVISE AND CLEAN UP ALL DEBRIS AFTER INSTALLATION AND CONSTRUCTION.

21. THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL STUDS, TEMPORARY BLOCKING AND FRAMING SUPPORTS IN PARTITIONS, AND IN CEILINGS FOR THE ANCHORING AND INSTALLATION OF ALL LIGHT FIXTURES OR OTHER CEILING MOUNTED INSTALLATIONS AS REQUIRED BY THE DOCUMENTS.

22. GENERAL CONTRACTOR SHALL PERFORM ALL WORK WITH THE LEAST POSSIBLE DISTURBANCE TO NEIGHBORING OCCUPANTS. AIR OPERATED HAMMERS, AND OTHER SUCH MACHINERY MAY BE USED ONLY WITH PRIOR APPROVAL OF THE OWNER AT TIMES WHICH THE OWNER MAY DETERMINE.

23. ALL SUBSTITUTIONS MUST BE REVIEWED AND APPROVED BY THE ARCHITECT OR ENGINEERS.

24. CONTRACTOR SHALL PROTECT WORK OF OTHER TRADES SO THAT PRE-FINISHED SURFACES, OR SURFACES TO BE FINISHED AT A LATER DATE ARE NOT MARRED. EACH CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT WORK AND IS RESPONSIBLE FOR THE REPAIR OF SAID DAMAGE AT HIS OWN COST.

25. COMMENCEMENT OF WORK BY ONE TRADE OR SUBCONTRACTOR OVER THE EXISTING FINISHED WORK OF A PREVIOUS TRADE OR SUBCONTRACTOR SHALL CONSTITUTE ACCEPTANCE OF THAT PREVIOUS WORK BY THE NEW TRADE OR SUBCONTRACTOR.

26. ALL CONTRACTORS SHALL HAVE PROPER EVIDENCE OF LIABILITY INSURANCE AND LOCAL LICENSE UNLESS OTHERWISE SPECIFIED.

27. ALL WORK SHALL BE GUARANTEED BY CONTRACTOR OR SUBCONTRACTOR IN WRITING FOR ONE YEAR AGAINST FAULTY MATERIALS AND / OR POOR WORKMANSHIP.

28. ARCHITECTURAL DRAWINGS SHALL GOVERN OVER ENGINEERING DRAWINGS FOR LOCATIONS OF LIGHTING, ELECTRICAL, DATA AND TELEPHONE OUTLETS, CEILING DIFFUSERS, LIGHT FIXTURES, ETC. REFER TO ENGINEERING DRAWINGS FOR LOCATIONS OF EMERGENCY LIGHTING FIXTURES, STROBES, EXIT LIGHTS, SPRINKLERS, ETC.

29. UPON COMPLETION OF THE WORK, THE CONTRACTOR MUST SUBMIT AS-BUILT DRAWINGS FOR ALL TRADES TO THE BUILDINGAND TO OWNERS, IN ORDER TO RECEIVE THEIR FINAL PAYMENTS.

30. ALL DRAWINGS AND SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. THE COMPLETE SCOPE OF WORK CAN ONLY BE DETERMINED BY USING ALL OF THE CONTRACT DOCUMENTS TOGETHER. FAILURE BY THE GENERAL CONTRACTOR TO USE ALL OF THE DOCUMENTS, AND TO CROSS REFERENCE ONE ANOTHER, SHALL NOT BE CAUSE FOR ADDITIONAL COSTS. COORDINATION OF THE WORK, AND OF THE SUBCONTRACTORS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

31. GENERAL CONTRACTOR TO SUBMIT ALL FINISH SAMPLES TO THE ARCHITECT PRIOR TO ORDERING MATERIALS.

SUPERVISION AND CONSTRUCTION TECHNIQUES

32. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS THE CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.

33. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ACTS OF OMISSION OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING PORTIONS OF THE WORK UNDER A CONTRACT WITH THE GENERAL CONTRACTOR.

34. THE CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTOR'S EMPLOYEES AND OTHER PERSONS CARRYING OUT THE CONTRACT. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT SKILLED IN TASKS ASSIGNED TO THEM.

35. THE CONTRACTOR SHALL NOT BE RELIEVED OF OBLIGATIONS TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EITHER BY ACTIVITIES OR DUTIES OF THE ARCHITECT IN THE ARCHITECT'S ADMINISTRATION OF THE CONTRACT, OR BY TESTS, INSPECTIONS, OR APPROVALS REQUIRED OR PERFORMED BY PERSONS OTHER THAN THE CONTRACTOR.

36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF PORTIONS OF THE WORK ALREADY PERFORMED UNDER THIS CONTRACT TO DETERMINE THAT SUCH PORTIONS ARE IN PROPER CONDITION TO RECEIVE SUBSEQUENT WORK.

LABOR AND MATERIALS

37. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTORS SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, WATER, HEAT, UTILITIES, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK, WHETHER TEMPORARY OR PERMANENT, AND WHETHER OR NOT INCORPORATED OR TO BE INCORPORATED IN THE WORK.

38. ALL MATERIALS FURNISHED ON THE JOB SITE SHALL BE NEW, AND STORED IN SUCH INNER AS TO PROTECT THEM FROM THE ELEMENTS. ALL WORK MUST BE COMPLETED IN STRICT ACCORDANCE WITH THE BEST PRACTICES OF THE CONSTRUCTION TRADE, AND MUST BE PERFORMED IN A PROFESSIONAL AND WORKMANLIKE MANNER. ANY WORK COMPLETED IN A NONPROFESSIONAL MANNER SHALL BE REJECTED AND MUST BE REDONE BY THE CONTRACTOR AT NO EXTRA COST.

39. THESE DRAWINGS ARE INSTRUMENT OF CONSTRUCTION AND REMAIN THE PROPERTY OF THE ARCHITECT. ANY REPRODUCTIONS OF SAID DRAWINGS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED.

40. THE CONTRACTOR MUST PROVIDE AND INSTALL MATERIALS AS REQUIRED TO CONSTRUCT TEMPORARY FACILITIES AND CODE REQUIRED FIRE RATINGS SHALL BE THE STANDARD FOR THESE TEMPORARY FACILITIES AND PROTECTION.

WARRANTY

41. THE CONTRACTOR WARRANTS TO THE OWNER AND ARCHITECT THAT MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT SHALL BE OF GOOD QUALITY AND NEW, UNLESS OTHERWISE REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS NOT INHERENT IN THE QUALITY REQUIRED OR PERMITTED, AND THAT THE WORK WILL CONFORM WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

42. UN INCLUDING SUBSTITUTIONS NOT PROPERLY APPROVED AND AUTHORIZED, MAY BE CONSIDERED DEFECTIVE. THE CONTRACTORS WARRANTY EXCLUDES REMEDY FOR DAMAGE OR DEFECT CAUSED BY ABUSE. MODIFICATIONS NOT EXECUTED BY THE CONTRACTOR, IMPROPER OR INSUFFICIENT MAINTENANCE, IMPROPER OPERATION, OR NORMAL WEAR AND TEAR UNDER NORMAL USAGE. IF REQUIRED BY THE ARCHITECT, THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT TO BE UTILIZED.

TAXES

43. THE CONTRACTOR SHALL PAY ALL SALES, CONSUMER, USE AND SIMILAR TAXES FOR THE WORK, OR PORTIONS THEREOF, PROVIDED BY THE CONTRACTOR WHICH ARE LEGALLY ENACTED WHEN BIDS ARE RECEIVED OR NEGOTIATIONS ARE CONCLUDED, WHETHER OR NOT EFFECTIVE OR MERELY SCHEDULED TO GO INTO EFFECT.

PERMITS / FEES / NOTES

44. UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED BUILDING PERMITS AND OTHER GOVERNING AGENCIES' PERMITS AND GOVERNMENTAL FEES, LICENSEES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK WHICH ARE CUSTOMARILY SECURED AFTER EXECUTION OF THE CONTRACT AND WHICH ARE LEGALLY REQUIRED WHEN BIDS ARE RECEIVED OR NEGOTIATIONS CONCLUDED. THIS WILL BE COMPLETED PRIOR TO COMMENCING WORK.

45. THE CONTRACTOR SHALL COMPLY WITH, AND GIVE NOTICES REQUIRED BY LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON PERFORMANCE OF THE WORK.

46. IF CONTRACTOR OBSERVES THAT PORTIONS OF THE CONTRACT DOCUMENTS ARE AT VARIANCE THEREWITH, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT AND OWNER IN WRITING, AND NECESSARY CHANGES SHALL BE ACCOMPLISHED BY APPROPRIATE MODIFICATIONS.

47. IF THE CONTRACTOR PERFORMS WORK KNOWING IT TO BE CONTRARY TO LAWS, STATUTES, BUILDING CODES, ORDINANCES AND RULES AND REGULATIONS, WITHOUT SUCH NOTICE TO THE ARCHITECT AND OWNER, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR SUCH WORK AND SHALL BEAR ATTRIBUTABLE COSTS.

48. ALL WORK SHALL CONFORM WITH THE LATEST REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE, NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION, O.S.H.A. AND ALL OTHER CODES HAVING CONTROL OVER THE PROJECT.

49. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION WITH THE REQUIREMENTS OF THE UTILITY COMPANIES WHOSE SERVICES SHALL BE USED. ALL MODIFICATIONS REQUIRED BY THESE CODES SHALL BE MADE BY THIS CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AS THE CONTRACTOR HAS AGREED THAT THEY HAVE RAISED ANY AND ALL QUESTIONS RELATED TO THE AUTHORITIES' REQUIREMENTS.

50. COORDINATE ALL NEW ELECTRICAL SERVICE WITH EXISTING SERVICE AND PANELS AND WITH THE FLORIDA POWER AND LIGHT COMPANY. VERIFY LOCATION OF SANITARY AND WATER MAINS BEFORE CONSTRUCTION IS STARTED. CONTRACTOR SHALL VERIFY ALL UTILITY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES OCCUR.

51. REFER TO STRUCTURAL ENGINEER FOR ALL STRUCTURAL DETAILS.

52. THE CONTRACTOR, WHERE REQUIRED, SHALL PROVIDE ALL NECESSARY FRAMING AND BLOCKING ABOVE THE FINISHED CEILING AND WITHIN WALLS. ALL ANCHORAGE IN THE CEILING MUST BE CARRIED TO THE STRUCTURE ABOVE.

53. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES, CONNECTION AND PAYMENT OF ALL UTILITY CHARGES INCURRED DURING CONSTRUCTION.

ALLOWANCES

54. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT SUM ALL ALLOWANCES STATED IN THE CONTRACT DOCUMENTS. ITEMS COVERED BY ALLOWANCES SHALL BE SUPPLIED FOR SUCH AMOUNTS AND BY SUCH PERSONS OR ENTITIES AS THE OWNER MAY DIRECT, BUT THE CONTRACTOR SHALL NOT BE REQUIRED TO EMPLOY PERSONS OR ENTITIES AGAINST WHICH THE CONTRACTOR MAKES REASONABLE OBJECTION.

55. UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS; (1) MATERIAL AND EQUIPMENT UNDER AN ALLOWANCE SHALL BE SELECTED PROMPTLY BY THE OWNER TO AVOID DELAY IN THE WORK; (2) ALLOWANCES SHALL COVER THE COST TO THE CONTRACTOR OF MATERIALS AND EQUIPMENT DELIVERED AT THE SITE AND ALL REQUIRED TAXES, LESS APPLICABLE TRADE DISCOUNTS; (3) CONTRACTOR'S COST FOR UNLOADING AND HANDLING AT THE SITE, LABOR, INSTALLATION COSTS, OVERHEAD, PROFIT AND OTHER EXPENSES CONTEMPLATED FOR STATED ALLOWANCE AMOUNTS SHALL BE INCLUDED IN THE CONTRACT SUM AND NOT IN THE ALLOWANCE; (4) WHENEVER COSTS ARE MORE THAN ALLOWANCES, THE CONTRACT SUM SHALL BE ADJUSTED ACCORDINGLY BY CHANGE ORDER. THE AMOUNT OF THE CHANGE ORDER SHALL REFLECT BOTH THE DIFFERENCE BETWEEN ACTUAL COSTS AND THE ALLOWANCES AND CHANGED IN THE CONTRACTOR'S COST.

SUPERINTENDENT

56. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT AND NECESSARY ASSISTANTS WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING PERFORMANCE OF THE WORK. THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. IMPORTANT COMMUNICATIONS SHALL BE CONFIRMED IN WRITING. OTHER COMMUNICATIONS SHALL BE SIMILARLY CONFIRMED ON WRITTEN REQUEST IN EACH CASE.

No.	Date	Revision

Owner:
FERRADO LIDO, LLC
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
GENERAL NOTES

Drawn By: AJM
Issue Date: 9.29.09
Checked By: AJM
Scale: 1/4" = 1'-0"

A-12
Drawing No.

CONTRACTOR'S CONSTRUCTION SCHEDULES

57. THE CONTRACTOR, PROMPTLY AFTER BEING AWARDED THE CONTRACT, SHALL PREPARE AND SUBMIT FOR THE OWNERS AND ARCHITECTS INFORMATION, A CONTRACTOR'S CONSTRUCTION SCHEDULE FOR THE WORK. THE SCHEDULE SHALL NOT EXCEED TIME LIMITS CURRENT UNDER THE CONTRACT DOCUMENTS, SHALL BE REVISED AT APPROPRIATE INTERVALS AS REQUIRED BY THE CONDITIONS OF THE WORK AND PROJECT, SHALL BE RELATED TO THE ENTIRE PROJECT TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS, AND SHALL PROVIDE FOR EXPEDITIOUS AND PRACTICABLE EXECUTION OF THE WORK.

58. THE CONTRACTOR SHALL PREPARE AND KEEP CURRENT, FOR THE ARCHITECTS APPROVAL, A SCHEDULE OF SUBMITTAL WHICH IS COORDINATED WITH THE CONTRACTOR'S CONSTRUCTIONS SCHEDULE, AND ALLOWS THE ARCHITECT REASONABLE TIME TO REVIEW SUBMITTAL.

59. THE CONTRACTOR SHALL CONFORM TO THE MOST RECENT SCHEDULES.

DOCUMENTS AND SAMPLES AT THE SITE

60. THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER, ONE RECORD COPY OF THE DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED AS TO CURRENT REVISIONS. THESE SHALL BE AVAILABLE TO THE ARCHITECT AND SHALL BE DELIVERED TO THE ARCHITECT FOR SUBMITTAL TO THE OWNER UPON COMPLETION OF THE WORK.

61. FINAL DRAWING RECORDS WHICH INCLUDE ALL REVISIONS TO THE CONTRACT DOCUMENTS COMPLETED DURING CONSTRUCTION, CAN BE COMPLETED BY THE ARCHITECT AT THE END OF CONSTRUCTION, FOR AN ADDITIONAL FEE.

SHOP DRAWINGS / PRODUCT DATA / SAMPLES

62. SHOP DRAWINGS ARE DRAWINGS, DIAGRAMS, SCHEDULES, AND OTHER DATA SPECIALLY PREPARED FOR THE WORK BY THE CONTRACTOR OR A SUBCONTRACTOR, MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTIONS OF THE WORK.

63. PRODUCT DATA ARE ILLUSTRATIONS, STANDARD SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, BROCHURES, DIAGRAMS AND OTHER INFORMATION FURNISHED BY THE CONTRACTOR TO ILLUSTRATE MATERIALS OR EQUIPMENT FOR SOME PORTION OF THE WORK.

64. SAMPLES ARE PHYSICAL EXAMPLES WHICH ILLUSTRATE MATERIALS, EQUIPMENT OR WORKMANSHIP AND ESTABLISH STANDARDS BY WHICH THE WORK WILL BE JUDGED.

65. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTAL ARE NOT CONTRACT DOCUMENTS. THE PURPOSE OF THEIR SUBMITTAL IS TO DEMONSTRATE FOR THOSE PORTIONS OF THE WORK FOR WHICH SUBMITTAL ARE REQUIRED, THE WAY THE CONTRACTOR PROPOSES TO CONFORM TO THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

66. THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT TO THE ARCHITECT, SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SIMILAR SUBMITTAL IN LEGIBLE TRIPLICATE REQUIRED BY THE CONTRACT DOCUMENTS, WITH REASONABLE PROMPTNESS AND IN SUCH SEQUENCE AS TO CAUSE NO DELAY IN THE WORK OR IN THE ACTIVITIES OF THE OWNER OR OF SEPARATE CONTRACTORS. SUBMITTALS MADE BY THE CONTRACTOR, WHICH ARE NOT REQUIRED BY THE CONTRACT DOCUMENTS, MAY BE RETURNED WITHOUT ACTION.

67. THE CONTRACTOR SHALL PERFORM NO PORTIONS OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS UNTIL THE ARCHITECT HAS APPROVED THE RESPECTIVE SUBMITTAL. SUCH WORK SHALL BE IN ACCORDANCE WITH APPROVAL SUBMITTAL.

68. BY APPROVING AND SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA, RELATED THERETO, OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION WITHIN EACH SUCH SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.

69. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FROM DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS, BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTALS AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIED DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS, BY THE ARCHITECT'S APPROVAL HERETO.

70. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PERVIOUS APPROVALS.

71. INFORMATIONAL SUBMITTAL UPON WHICH THE ARCHITECT IS NOT EXPECTED TO TAKE RESPONSIVE ACTIONS MAY BE SO IDENTIFIED IN THE CONTRACT DOCUMENTS.

72. WHEN PROFESSIONAL CERTIFICATION OF PERFORMANCE CRITERIA OF MATERIALS, SYSTEMS OR EQUIPMENT IS REQUIRED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE ENTITLED TO RELY UPON THE ACCURACY AND COMPLETENESS OF SUCH CALCULATIONS AND CERTIFICATIONS.

USE OF SITE

73. THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS, AND SHALL NOT UNREASONABLE ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT.

CUTTING & PATCHING

74. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, FITTING OR PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY.

75. THE CONTRACTOR SHALL NOT DAMAGE OR ENDANGER A PORTION OF THE WORK, OR ENDANGER FULLY OR PARTIALLY COMPLETED CONSTRUCTION OF THE OWNER, OR SEPARATE CONTRACTORS, BY CUTTING, PATCHING OR OTHERWISE ALTERING SUCH CONSTRUCTION, OR BY EXCAVATION. THE CONTRACTOR SHALL NOT CUT OR OTHERWISE ALTER SUCH CONSTRUCTION BY THE OWNER OR A SEPARATE CONTRACTOR EXCEPT WITH WRITTEN CONSENT OF THE OWNER AND OF SUCH SEPARATE CONTRACTOR. SUCH CONSENT SHALL NOT BE UNREASONABLE WITHHELD. THE CONTRACTOR SHALL NOT UNREASONABLY WITHHOLD FROM THE OWNER OR A SEPARATE CONTRACTOR THE CONTRACTOR'S CONSENT TO CUTTING OR OTHERWISE ALTERING THE WORK.

CLEAN UP

76. THE CONTRACTOR SHALL KEEP THE PREMISES AND SURROUNDING AREAS FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY DAILY OPERATIONS UNDER THE CONTRACT, AT COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE FROM AND ABOUT THE PROJECT, WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.

77. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROTECTION OF OUTSIDE WORK WITH RESPECT TO ADJACENT PROPERTIES, SUCH THAT NO TRASH, DUST OR OTHER FINE PARTICULATE MATTERS WILL ENCROACH ON SAID ADJACENT PROPERTIES. ANY COSTS ASSOCIATED WITH SUCH PROTECTION WILL BE BORNE BY THE CONTRACTOR.

78. THE CONTRACTOR SHALL PRESENT TO THE OWNER A CLEAN SPACE READY FOR OCCUPANCY. ANY GLASS SHALL BE CLEANED AND POLISHED. FLOORS ARE TO BE SWEPT BROOM CLEAN; CARPETS VACUUMED; FIXTURES WASHED WITH ALL LABELS REMOVED AND EXTERIORS FREE FROM TRASH AND DEBRIS.

79. IF THE CONTRACTOR FAILS TO CLEAN UP AS PROVIDED IN THE CONTRACT DOCUMENTS, THE OWNER MAY DO SO AND THE COST THEREOF SHALL BE CHARGED TO THE CONTRACTOR.

ACCESS TO WORK

80. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT ACCESS TO THE WORK IN PREPARATION AND PROGRESS WHEREVER LOCATED.

ROYALTIES & PATENTS

81. THE CONTRACTOR SHALL PAY ALL ROYALTIES AND LICENSE FEES. THE CONTRACTOR SHALL DEFEND SUITS OR CLAIMS FOR INFRINGEMENT OF PATENT RIGHTS AND SHALL HOLD THE OWNER AND ARCHITECT HARMLESS FROM LOSS ON ACCOUNT THEREOF, BUT SHALL NOT BE RESPONSIBLE FOR SUCH DEFENSE OR LOSS WHEN A PARTICULAR DESIGN, PROCESS OR PRODUCT OF A PARTICULAR MANUFACTURE OR MANUFACTURERS IS REQUIRED BY THE CONTRACT DOCUMENTS. HOWEVER, IF THE CONTRACTOR HAS REASON TO BELIEVE THAT THE REQUIRED DESIGN, PROCESS OR PRODUCT IS AN INFRINGEMENT OF A PATENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH LOSS UNLESS SUCH INFORMATION IS PROMPTLY FURNISHED TO THE ARCHITECT.

INDEMNIFICATION

82. TO THE FULLEST EXTENT PERMITTED BY LAW, THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ARCHITECT, ARCHITECT'S CONSULTANTS, AND AGENTS AND EMPLOYEES OF ANY OF THEM, FROM AND AGAINST CLAIM, DAMAGES, LOSSES AND EXPENSE, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK , PROVIDED THAT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING LOSS OF USE RESULTING THEREFROM, BUT ONLY TO THE EVENT CAUSED IN WHOLE OR IN PART BY NEGLIGENT ACTS OR OMISSIONS OF THE CONTRACTOR, A SUBCONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THEM, OR ANYONE FOR WHOSE ACTS THEY MAY BE RELIABLE, REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN PART BY A PARTY HEREUNDER. SUCH OBLIGATION SHALL NOT BE CONSTRUED TO NEGATE, ABRIDGE OR REDUCE OTHER RIGHTS OR OBLIGATIONS OF INDEMNITY WHICH WOULD OTHERWISE EXIST.

83. IN CLAIMS AGAINST ANY PERSON OR ENTITY INDEMNIFIED HEREWITH BY AN EMPLOYEE OF THE CONTRACTOR, A SUBCONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THEM OR ANYONE FOR WHOSE ACTS THEY MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED BY A LIMITATION ON AMOUNT OR TYPE OF DAMAGES, COMPENSATION, OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR SUBCONTRACTOR UNDER WORKERS' OR WORKMEN'S COMPENSATION ACTS, DISABILITY BENEFITS ACTS OR OTHER EMPLOYEE BENEFITS ACTS.

84. THE OBLIGATIONS OF THE CONTRACTOR SHALL NOT EXTEND TO THE LIABILITY OF
THE ARCHITECT, THE ARCHITECT'S CONSULTANTS, AND AGENTS AND EMPLOYEES OF ANY OF THEM, ARISING OUT OF (1) THE PREPARATION OR APPROVAL OF MAPS, DRAWINGS, OPINIONS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGN OR SPECIFICATION, OR (2) THE GIVING OF OR THE FAILURE TO GIVE DIRECTIONS OR INSTRUCTIONS BY THE ARCHITECT, THE ARCHITECT'S CONSULTANTS, AND AGENTS AND EMPLOYEES OF ANY OF THEM, PROVIDED SUCH GIVING OR FAILURE TO GIVE IS THE PRIMARY CAUSE OF THE INJURY OR DAMAGE.

85. WRITTEN DIMENSIONS GOVERN. THE CONTRACTOR SHALL NOT SCALE PLANS.

86. THE GENERAL CONTRACTOR MUST SUBMIT FULL SETS OF BID DOCUMENTS TO ALL TRADES. THEREFORE ALL BIDS MUST INCLUDE ALL INFORMATION ILLUSTRATED ON THE CONTRACT DOCUMENTS.

87. THE STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR (AIA DOCUMENT #A-101) OF THE AMERICAN INSTITUTE OF ARCHITECTS, SHALL APPLY TO ALL WORK EXECUTED UNDER THIS AGREEMENT, TOGETHER WITH THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT # A-201 & A-201SC OF THE AMERICAN INSTITUTE OF ARCHITECTS.

INFORMATION & SERVICES REQUIRED OF THE OWNER

88. THE OWNER IS THE PERSON OR ENTITY IDENTIFIED AS SUCH IN THE AGREEMENT AND IS REFERRED TO THROUGHOUT THE CONTRACT DOCUMENTS AS IF SINGULAR IN NUMBER. THE TERM 'OWNER'

89. THE OWNER, UPON REASONABLE REQUEST, SHALL FURNISH TO THE CONTRACTOR IN WRITING, INFORMATION WHICH IS NESESSARY AND RELEVANT FOR THE CONTRACTOR TO EVALUATE, GIVE NOTICE OR ENFORCE MECHANIC'S LIEN REIGHTS. SUCH INFORMATION SHALLL INCLUDE A CORRECT STATEMENT OF THE RECORDED LEGAL TITLE TO THE PROPERTY ON WHICH THE PROJECT IS LOCATED, USUALLY REFERRED TO AS THE SITE, AND THE OWNER'S INTEREST THEREIN AT THE TIME OF EXECUTION OF THE AGREEMENT AND WITHIN FIVE DAYS AFTER ANY CHANGE, INFORMATION OF SUCH CHANGE IN TITLE, RECORDED.

90. THE OWNER SHALL FURNISH SURVEYS DESCRIBING PHYSICAL CHARACTERISTICS, LEGAL LIMITATION AND UTILITY LOCATIONS FOR THE SITE OF THE PROJECT, AND A LEGAL DESCRIPTION OF THE SITE.

91. EXCEPT FOR PERMITS AND FEES WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNDER THE CONTRACT DOCUMENTS, THE OWNER SHALL SECURE AND PAY FOR NECESSARY APPROVALS, EASEMENTS, ASSESSMENTS AND CHARGES REQUIRED FOR CONSTRUCTION, USE OR OCCUPANCY OF PERMANENT STRUCTURES OR FOR PERMANET CHANGES IN EXISTING FACILITIES.

92. INFORMATION OR SERVICES UNDER THE OWNER'S CONTROL SHALL BE FURNISHED BY THE OWNER WITH REASONABLE PROMPTNESS TO AVOID DELAY IN THE ORDERLY PROCESS OF THE WORK.

93. UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BEFURNISHED FREEOF CHARGE, SUCH COPIES OF DRAWINGS AND PROJECT MANUALS AS ARE REASONABLY NECESSARY FOR THE EXECUTION OF THE WORK.

94. THE FOREGOING ARE IN ADDITION TO OTHER DUTIES AND RESPONSIBILITIES OF THE OWNER, ENUMERATED HEREIN AND ESPECIALLY THOSE IN RESPECT TO SPECIAL CONDITIONS.

OWNER'S RIGHT TO STOP THE WORK

95. THE CONTRACTOR FAILS TO CORRECT WORK THAT IS NOTIN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR PERSISTENTLY FAILS TO CARRY OUT WORK AND ACT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE OWNER, BY WRITTEN ORDER SIGNED PERSONALLY, OR BY ANAGENT SPECIFICALLY SO EMPOWERED BY THE OWNER IN WRITING, MAY ORDER THE CONTRACTOR TO STOP THE WORK, OR ANY PORTION THEREOF, UNTIL THE CAUSE FOR SUCH ORDER HAS BEEN ELIMINATED. HOWEVER, THE RIGHT OF THE OWNER TO STOP THE WORK SHALL NOT GIVE RISE TO A DUTYON THE PART OF THE OWNER TO EXERCISETHIS RIGHT FOR THE BENEFIT OF THE CONTRACTOROR ANY OTHER PERSON OR ENTITY.

OWNER'S RIGHT TO CARRY OUT THE WORK

96. IF THE CONTRACT DEFAULTS OR NEGLECTS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND FAILS WITHIN A SEVEN DAY PERIOD AFTER RECEIPT OF WRITTEN NOTICE FROM THE OWNER TO COMMENCE AND CONTINUE CORRECTION OF SUCH DEFAULT OR NEGLECT WITH DILIGENCE AND PROMPTNESS, THE OWNER MAY, AFTER SUCH SEVEN DAY PERIOD, GIVE THE CONTRACTOR A SECOND WRITTEN NOTICE TO CORRECT SUCH DEFICIENCIES, WITHIN A SECOND SEVEN DAY PERIOD. IF THE CONTRACTOR, WITHIN SUCH SECOND SEVEN DAY PERIOD AFTER RECEIPT OF SUCH NOTICE, FAILS TO COMMENCE AND CONTINUE TO CORRECT ANY DEFICIENCIES, THE OWNER MAY, WITHOUT PREJUDICE TO OTHER REMEDIES THE OWNER MAY HAVE, CORRECT SUCH DEFICIENCIES. IN SUCH CASE AN APPROPRIATE CHANGE ORDER SHALL BE ISSUED DEDUCTING FROM PAYMENTS THEN OR THEREAFTER DUE THE CONTRACTOR, THE COST OF CORRECTING SUCH DEFICIENCIES, INCLUDING COMPENSATION FOR THE ARCHITECT'S ADDITIONAL SERVICES AND EXPENSES MADE NECESSARY BY SUCH DEFAULT, NEGLECT OR FAILURE. SUCH ACTION BY THE OWNER AND AMOUTNS CHARGED TO THE CONTRACTOR ARE BOTH SUBJECT TO PRIOR APPROVAL OF THE ARCHITECT. IF PAYMENTS THEN OR THEREAFTER DUE THE CONTRACTOR ARE NOT SUFFICIENT TO COVER SUCH AMOUNTS, THE CONTRACTOR SHALL PAY THE DIFFERENCE TO THE OWNER.

OWNERSHIP AND USE OF THE DOCUMENTS

97. IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT, TO ALTER THESE DOCUMENTS IN ANY WAY. THESE DRAWINGS, PREPARED FOR THE SPECIFIC PROJECT INDICATED, IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF ARTHUR J. MARCUS AIA ARCHITECT. INFRINGEMENTS OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THESE DOCUMENTS IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

98. USE OF THIS FILE, INCLUDING MODIFICATIONS, IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE USER SHALL TO THE FULLEST EXTENT OF THE LAW, HOLD THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS HARMLESS FROM ANY CLAIMS, LIABILITIES, DAMAGES, LOSSES, JUDGEMENTS, COSTS AND EXPENSES INCLUDING LEGAL FEES THAT MAY BE INCURRED BY THE ARCHITECT OR THE ARCHITECT'S CONSULTANTS, AS A RESULT OF ANY AND ALL USE OF THE CAD DATA, INCLUDING BUT NOT LIMITED TO, ANY ALTERATIONS, MODIFICATIONS, DEVIATIONS FROM OR ADDITIONS TO THE DRAWINGS.

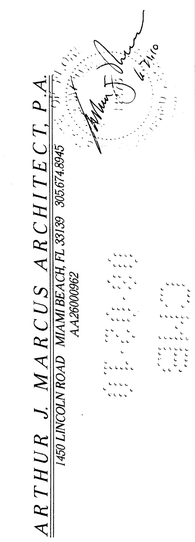
No.	Date	Revision

Owner:
FERRADO LIDO, LLC
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal



Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title

GENERAL NOTES

Drawn By	Issue Date
AJM	9.29.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

A-13
Drawing No.

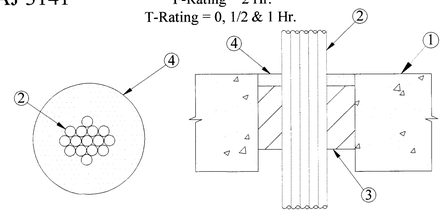
CAJ 3141

2 Hour Fire Rated Through Penetration Firestop for Multiple Cables through Concrete Floors or Walls using TREMstop IA.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0, 1/2 & 1 Hr.



① Pre-Rated Concrete Floor or Block Wall Assembly - Min. 4-1/2" Thickness.
Maximum diameter of opening = 6".

② Cables - Any combination of the following types and sizes may be used.
- A) Max 1/C - 500 kmil cable with PVC insulation and jacket
- B) Max 1/C - 350 kcmil cable with XLPE insulation and jacket
- C) Max 3/C - No. 6 cable with PVC insulation and jacket
- D) Max 300 pair No. 24 AWG copper conductor telephone cables
- E) Max 24 fibers - 62.5/125um dielectric fiber optic cable with HDPE jacket

NOTE: T-Rating is 0 Hr for Cables A & B, 1/2 Hr. for Cables C & D and 1 Hr for Cable E.

③ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into opening as a permanent form.

④ TREMstop IA - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.

1

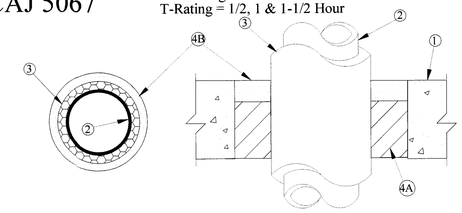
CAJ 5067

1-1/2 & 2 Hour Fire Rated Through Penetration Firestop for Insulated Metal Pipe through Concrete Floors or Walls using FYRE-SIL and FYRE-SIL S/L.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1-1/2 & 2 Hour
T-Rating = 1/2, 1 & 1-1/2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness

② Metallic Pipe: > Steel Pipe - 10" diam. (or smaller) Sch.10 (or heavier) steel.
> Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper.
> Copper Tubing - 4" diam. (or smaller) Type M (or heavier) copper tubing.

③ Pipe Covering - Fiberglass insulation, see table below for thickness and annular space.

Max. Pipe Diam., in.	Pipe Covering Thickness, in.	Annular Space in.	Packing Material Thickness, in.	Min. Sealant Thickness, in.	F-Rating Hr.	T-Rating Hr.
3	1	1/4 to 1-3/8	3-1/2	1/2	1-1/2	1/2
3	1	1/4 to 5/8	3-1/2	1/4	1-1/2	1/2
4	1/2	1/4 to 5/8	4-1/4	1/4	2	1/2
10	1	1/2 to 1	4-1/4	1/4	2	1
10	2	1/2 to 3/4	4-1/4	1/4	1-1/2	1-1/2

④A Packing Material - Mineral wool insulation (min. 4.0 pcf) firmly packed into opening to the minimum required thickness in the table above.

④B FYRE-SIL and FYRE-SIL S/L - Min. thickness of sealant as specified in the table above, applied within opening flush with top surface of floor or both surfaces of wall.

NOTE: Apply FYRE-SIL S/L to Floor Applications Only.

2

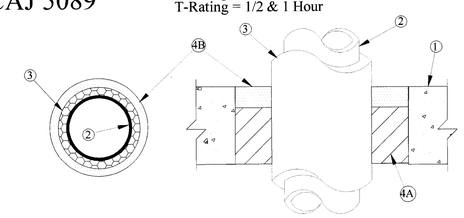
CAJ 5089

2 Hour Fire Rated Through Penetration Firestop for Insulated Metal Pipe through Concrete Floors or Walls using TREMstop Acrylic.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1/2 & 1 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness

② Metallic Pipe: > Steel Pipe - 8" diam. (or smaller) Sch.40 (or heavier) steel.
> Iron Pipe - 8" diam. (or smaller) cast or ductile iron.
> Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper.
> Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.

③ Pipe Covering - Nom. 1" thick (or less) fiberglass insulation.

④ Firestop Treatment:

Pipe Type	Annular Space, in.	T Rating, H
Steel Pipe	1/2 to 1	1
Iron Pipe	1/2 to 1	1
Copper Pipe	3/8 to 1-1/2	1/2
Copper Tube	3/8 to 1-1/2	1/2

④A Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into opening as a permanent form.

④B TREMstop Acrylic - Min. 1/2" thickness of sealant applied within opening, flush with top of floor or both sides of wall.

3

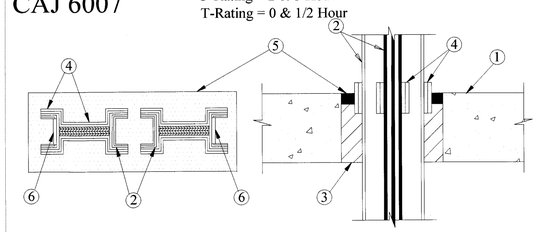
CAJ 6007

2 and 3 Hour Fire Rated Through Penetration Firestop for Bus Ducts through Concrete Floors and Walls using FYRE-SIL or FYRE-SIL S/L and TREMstop WS.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 & 3 Hour
T-Rating = 0 & 1/2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness
Max. Diameter of Opening = 330 sq. in. with a max. dimension of 30".

② Busway - Nom. 23" wide (or smaller) by 4.5" deep "I" shaped aluminum enclosure.

③ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) installed into opening as a permanent form.

④ TREMstop WS - Intumescent wrap strips are installed in several pieces to cover entire perimeter and center portion of the penetrating item in two layers.

NOTE: When TREMstop WS is not installed, F-Rating = 2 Hr. and T-Rating = 0 Hr.

⑤ FYRE-SIL or FYRE-SIL S/L - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.

NOTE: Install FYRE-SIL S/L in Floor Applications Only.

⑥ FYRE-SIL - Min. 1/4" sealant applied at the ends of the busway over the top of the wrap strips.

4

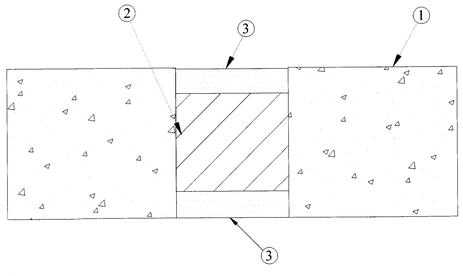
WWS 0024

2 Hour Fire Rated Joints in Concrete Walls using TREMstop Acrylic.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

L-Rating at Ambient - Less Than 1 CFM/Lin. Ft.
L-Rating at 400 F - Less Than 1 CFM/Lin. Ft.



① Pre-Rated Concrete or Block Walls: Min. 5" Thickness
Max. Joint Width = 2".

② Packing Material - Min. 4" mineral wool insulation (min 2.5 pcf) firmly packed into opening as a permanent form.

③ TREMstop Acrylic - Min. 1/2" wet thickness of sealant applied within opening, flush with both surfaces of wall assembly.

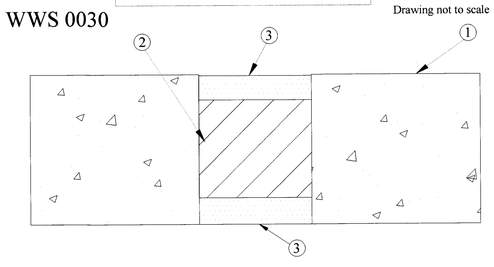
5

WWS 0030

3 and 4 Hour Fire Rated Joints in Concrete Walls using DYMERIC 511.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale



① Pre-Rated Concrete or Block Walls - See Table below for minimum thickness:
Max. Joint Width = 1".

Min. Thickness of Wall, in.	Assembly F-Rating, Hr.
5-1/2	3
8	4

② Packing Material - Min. 3" thickness of CERABLANKET-FS or ceramic fiber insulation (min. 6.0 pcf) firmly packed into opening as a permanent form.

③ DYMERIC 511 - Min. 1/2" thickness of sealant applied within opening, flush with both surfaces of the wall assembly.

6

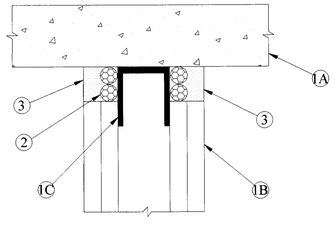
HWD 0016

1 or 2 Hour Fire Rated Joints for Concrete Floors and Gypsum Walls using TREMstop Acrylic.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

Movement Capabilities = 25% Compression



① A) Pre-Rated Concrete Floor: Min. 4-1/2" Thickness
B) Pre-Rated Gypsum Wallboard/Stud Wall Assembly
C) Steel Floor and Ceiling Runners - Min. 28 gauge galv. steel channels mechanically fastened to the lower surface of the floor assembly.
Max. Joint Width = 1".

② Packing Material - For 1 Hr F-Rating: Install Bond Breaker Tape prior to applying sealant.
For 2 Hr F-Rating: Install 2 layers of 7/8" diam. polyurethane backer rod.

③ TREMstop Acrylic - Min. 1/2" thickness of sealant applied within opening, flush with both surfaces of the wall assembly.

7

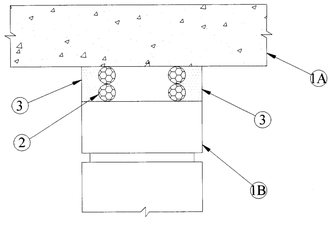
HWD 0017

2 Hour Fire Rated Joints for Concrete Floors and Concrete Walls using TREMstop Acrylic.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

Movement Capabilities = 25% Compression



① A) Pre-Rated Concrete Floor: Min. 4-1/2" Thickness
B) Pre-Rated Concrete or Block Wall: Min. 5" Thickness.
Max. Joint Width = 1".

② Packing Material - Two layers of nom. 7/8" diam. polyurethane baker rod, friction fitted within the opening to accomodate the required thickness of sealant.

③ TREMstop Acrylic - Min. 1/2" thickness of sealant applied within opening, flush with both surfaces of the wall assembly.

8

No.	Date	Revision

Owner:
FERRADO LIDO, LLC
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title

PENETRATION DETAILS

Drawn By: AJM
Issue Date: 9.13.10
Checked By: AJM
Scale: N.T.S.

A-14
Drawing No.

12/14/10

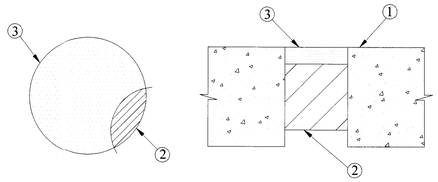
CAJ 0011

2 Hour Fire Rated Through Penetration Firestop for Blank Openings through Concrete Floors or Walls using FYRE-SIL and FYRE-SIL S/L.

TREMCO® 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1-1/2 & 2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness
Max. Diameter of Opening = 24".

② Packing Material - Min. 3-1/2" thickness of mineral wool insulation (min. 5 .0 pcf) firmly packed into the opening as a permanent form.

③ FYRE-SIL or FYRE-SIL S/L - MIn. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.

NOTE: If FYRE-SIL is used, the T-Rating = 1-1/2 Hr.
If FYRE-SIL S/L is used, the T-Rating = 2 Hr.

NOTE: Apply FYRE-SIL S/L to Floor Applications Only.

1

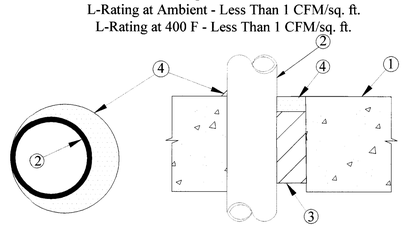
CAJ 1205

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Block Walls using TREMstop Acrylic.

TREMCO® 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 Hr.
L-Rating at Ambient - Less Than 1 CFM/sq. ft.
L-Rating at 400 F - Less Than 1 CFM/sq. ft.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness.
The annular space range shall be min. 0" to max. 7/8" for this firestop system.

② Metallic Pipe: > Steel Pipe - 12" diam. (or smaller) sch. 40 (or heavier) steel
> Conduit - Nom. 4" diam. (or smaller) steel conduit, or EMT.
> Copper Pipe - 3" diam. (or smaller) Regular (or heavier) copper.
> Cast Iron Pipe - 12" diam. (or smaller) cast or ductile iron.
> Copper Tubing - 3" diam. (or smaller) Type L (or heavier) copper.

③ Packing Material - Min. 4" thickness of mineral wool (min. 4.0 pcf) insulation, firmly packed into opening as a permanent form.

④ TREMstop Acrylic - Min. 1/2" sealant applied within annulus, and a minimum 1/4" sealant applied at point contact; at the floor surface for floors, or both surfaces for walls.

2

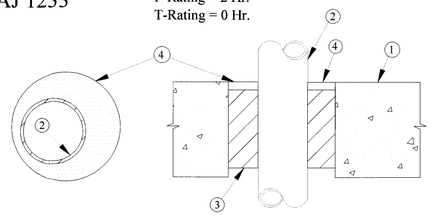
CAJ 1233

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Walls using FYRE-SHIELD.

TREMCO® 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 3" thick concrete floor assembly.
Min. 3-1/2" thick conrete wall assembly.

② Metallic Pipe: A) Steel Pipe- 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Iron Pipe- 8" diam. (or smaller) cast or ductile iron pipe.
C) Conduit - 4" diam. (or smaller) EMT or steel conduit.
D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe- 4" diam. (or smaller) Regular (or heaveir) copper pipe.
The annular space be min. 1/2" to max. 7/8".

③ Packing Material - Min. 2-1/2" thickness of mineral wool (min. 4.0 pcf) insulation, firmly packed into opening as a permanent form.

④ FYRE-SHIELD- Min. 1/2" thickness of sealant applied within annulus, flush with top surface of floor or both surfaces of wall assembly.

3

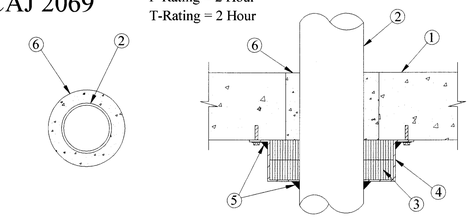
CAJ 2069

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

TREMCO® 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 2 Hour



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - 10" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A max. annular space of 5/8" is required.

③ TREMstop WS - Intumescent wrap strips, continuously wrapped around outer circumference of the pipe in two stacks of twelve wraps.

④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.

⑤ TREMstop WBM or FYRE-SIL - Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe.

⑥ Mortar - Min. 4-1/2" thickness of mortar or hydraulic cement applied within annulus, flush with both surfaces of floor or wall assembly.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.

4

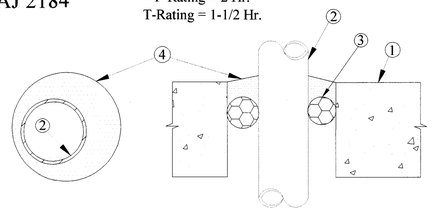
CAJ 2184

2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Concrete Floors or Walls using TREMstop IA.

3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 1-1/2 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - A) Nom. 2" diam. (or smaller) Sch. 40 PVC pipe.
B) Nom. 2" diam. (or smaller) SDR17 CPVC pipe.
NOTE: For use in closed (process or supply) piping systems.

③ Forming Material - Foam backer rod firmly packed into the opening as a permanent form.

④ TREMstop IA - Sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly as shown in table below. When required, apply additional sealant such that a min. 1/8" crown is formed around the penetrating item.

Max. Pipe Diameter, in.	Annular Space, in.	Min. Sealant Thickness, in.	Sealant Crown Required
1-1/2	3/8 to 3/4	1/2	Yes
2	1/4 to 3/8	1	No

5

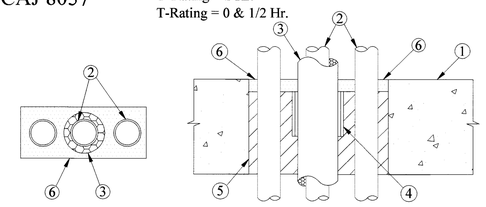
CAJ 8057

2 Hour Fire Rated Through Penetration Firestop for Mixed Items through Concrete Floors or Walls using FYRE-SIL and TREMstop WS.

3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 & 1/2 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness
Max. Area of Opening = 60 sq. in., with a Max. Dimension of 12".

② Metallic Pipe: A) Steel Pipe - 3" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Conduit - 3" diam. (or smaller) EMT or steel conduit.
C) Copper Tubing - 3" diam. (or smaller) Type L (or heavier) copper tubing.
D) Copper Pipe - 3" diam. (or smaller) Regular (or heavier) copper pipe.
E) Iron Pipe - 3" diam. (or smaller) cast or ductile iron pipe.
The annular space between pipes and openings is min. 1/4" to max. 15/16".

③ Pipe Covering - Nom. 3/4" thickness of flexible foam (AB/PVC) pipe insulation.

④ TREMstop WS - Intumescent wrap strips wrapped around pipe covering (item 3) two times.

⑤ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into the opening as a permanent form.

⑥ FYRE-SIL - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both sides of wall assembly.

6

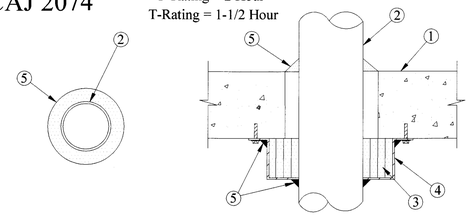
CAJ 2074

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

TREMCO® 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1-1/2 Hour



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - 2" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A nom. annular space of 1/8" is required within the firestop system.

③ TREMstop WS - Intumescent wrap strips, continuously wrapped around outer circumference of the pipe four times.

④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.

⑤ FYRE-SIL - Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe. An additional 1/4" thick bead of caulk to be applied around the the pipe at the interface with the top of the concrete slab.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.

7

8

No.	Date	Revision

Owner:
FERRADO LIDO, LLC
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
PENETRATION DETAILS

Drawn By: AJM
Issue Date: 9.13.10
Checked By: AJM
Scale: 1/4" = 1'-0"

A-15
Drawing No.

ABBREVIATIONS & SYMBOLS

AFF	-ABOVE FINISHED FLOOR
AHU	-AIR HANDLING UNIT
AP	-ACCESS PANEL
BHP	-BRAKE HORSEPOWER
BTU	-BRITISH THERMAL UNIT
CD	-CEILING DIFFUSER
CT	-COOLING TOWER
ΔP	-CHANGE IN PRESSURE
ΔT	-CHANGE IN TEMPERATURE
CFM	-CUBIC FEET PER MINUTE
CU	-CONDENSING UNIT
DN	-DOWN
EAT	-ENTERING AIR TEMPERATURE
ESP	-EXTERNAL STATIC PRESSURE
EWT	-ENTERING WATER TEMPERATURE
FCU	-FAN COIL UNIT
FD	-FIRE DAMPER
FLA	-FULL LOAD AMPS
FPM	-FEET PER MINUTE
GPM	-GALLONS PER MINUTE
KW	-KILOWATT
LAT	-LEAVING AIR TEMPERATURE
LWT	-LEAVING WATER TEMPERATURE
LD	-LINEAR DIFFUSER
MBH	-THOUSAND BTUs PER HOUR
MCA	-MINIMUM CIRCUIT AMPS
MOCP	-MAXIMUM OVER CURRENT PROTECTION
NC	-NORMALLY CLOSED
NO	-NORMALLY OPEN
NTS	-NOT TO SCALE
OA	-OUTSIDE AIR
OAL	-OUTSIDE AIR LOUVER
PRV	-PRESSURE REDUCING VALVE
PSI	-POUNDS PER SQUARE INCH
PVC	-POLYVINYL CHLORIDE PIPE
RA	-RETURN AIR
RHP	-ROOFTOP HEAT PUMP
RPM	-REVOLUTIONS PER MINUTE
RS/L	-REFRIGERANT SUCTION & LIQUID LINES
RTU	-ROOFTOP AIR HANDLING UNIT
SA	-SUPPLY AIR
SP	-STATIC PRESSURE
VAV	-VARIABLE AIR VOLUME
VFD	-VARIABLE FREQUENCY DRIVE
1	-REVISION REFERENCE
1 / M-1	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
T	-THERMOSTAT
DD	-DUCT SMOKE DETECTOR
SD	SMOKE DAMPER
FD/SD	-FIRE DAMPER/SMOKE DAMPER WITH ACCESS PANEL
FD	-FIRE DAMPER
M	-MOTORIZED VOLUME DAMPER
P	-PRESSURE DIFFERENCIAL SENSOR
BDD	-BACK DRAFT DAMPER
VD	-VOLUME DAMPER

DUCTWORK LEGEND

X / XXX	-DESIGNATION FOR SUPPLY/EXHAUST AIR DISTRIBUTION ITEM. LETTER REFERS TO ITEM TYPE AND SIZE, NUMBER REFERS TO CFM
2 / XXXX	-DESIGNATION FOR TRANSFER LOUVER DOOR. UPPER NUMBER REFERS TO ITEM TYPE AND LOWER NUMBER REFERS TO SIZE
AHU-X / XXXX	-AIR HANDLING UNIT
	-DAMPER
S/A, VD	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT SIDEWALL)
	-NEW FIBERBOARD DUCTWORK
	-NEW INTERNALLY LINED SHEET METAL DUCTWORK
	-NEW EXTERNALLY INSULATED SHEET METAL DUCTWORK
	-NEW DOUBLE WALL SHEET METAL DUCTWORK
	-EXISTING DUCTWORK TO REMAIN
	-EXISTING DUCTWORK TO BE REMOVED
	-ELBOW WITH TURNING VANES
	-REDUCERS AS INDICATED
	-STANDARD BRANCH TAKE-OFF
	-TRANSITION SQUARE TO ROUND
FD, AD	-FIRE DAMPER (PROVIDE ACCESS DOOR)
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
	-FLEXIBLE CONNECTION

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LASTEST EDITION OF THE FLORIDA BUILDING CODE, FLORIDA ENERGY CONSERVATION CODE, NFPA AND ALL LOCAL CODES.

2. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COORDINATION OF THE HVAC WORK AND TO DETERMINE SCOPE OF WORK.

3. NOT ALL SYMBOLS AND ABBREVIATIONS LISTED HEREIN APPLY TO THIS PROJECT.

4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF ALL AIR DISTRIBUTION DEVICES AND ACCESS PANELS.

5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL HVAC WORK WITH OTHER TRADES SUCH AS ELECTRICAL, STRUCTURAL, PLUMBING, FIRE SPRINKLERS, LIGHTING, CEILING CONSTRUCTION AND SUPPORTS. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING OF CONSTRUCTION.

6. PROVIDE CEILING/WALL ACCESS PANELS WHERE INDICATED IN THE DRAWINGS AND WHERE REQUIRED TO ACCESS HVAC EQUIPMENT. PANELS SHALL BE RECESSED TYPE, FIRE RATED IF IN FIRE RATED WALLS OR CEILINGS. LOCATIONS OF PANELS SHALL BE COORDINATED WITH ALL OTHER TRADES.

7. DUCTWORK

   a) SHEET METAL DUCTS SHALL BE USED FOR SUPPLY AIR AND RETURN AIR DUCT.
   b) METAL DUCTS SHALL BE IN ACCORDANCE WITH LATEST ISSUES OF THE LOW VELOCITY DUCT CONSTRUCTION STANDARDS, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONED CONTRACTORS NATIONAL ASSOCIATION, INC" AND THE LATEST PUBLICATION OF GUIDE & DATA BOOK OF THE AMERICAN SOCIETY OF HEATING, VENTILATING AND AIR CONDITIONED ENGINEERS. PROVIDE R=6 INSULATION PER FLORIDA ENERGY CODE.

8. EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED, EXISTING WORK OUTSIDE THE AFFECTED AREA IS TO REMAIN AND SHALL REMAIN OPERATIONAL.

9. CONTRACTOR SHALL REMOVE ALL SUPPORTING FACILITIES NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND MATERIALS BEING FURNISHED UNDER THIS CONTRACT. SUCH REMOVAL SHALL INCLUDE BUT IS NOT LIMITED TO AIR DISTRIBUTION DEVICES NOT IN USE, ABANDONED DUCTS AND PIPES, ETC.

10. WHERE PIPES, DUCTWORK, CONDUIT, AIR DISTRIBUTION DEVICES, CONTROL DEVICES WIRING ETC. ARE DISCONNECTED FOR THE REMOVAL, RELOCATION OR ADDITION OF EQUIPMENT, OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RECONNECTED AND MADE FULLY OPERATIONAL.

11. UNLESS OTHERWISE NOTED ALL MATERIALS AND EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE HANDED OVER TO THE OWNER IN ITS ORIGINAL CONDITION.

12. CONTRACTOR SHALL DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THIS SCOPE OF WORK RESTORING ALL SURFACES TO THEIR ORIGINAL CONDITION. COORDINATE WITH GENERAL CONTRACTOR.

13. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL, CONCRETE OR WOOD, SHALL REQUIRE THE APPROVAL OF THE ARCHITECT/ENGINEER.

14. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS, AND VERIFY EXACT LOCATION, QUANTITY AND SIZE OF ALL EQUIPMENTS, PIPES, CONDUITS, WIRING, PANELS, DUCTS, AIR DISTRIBUTION DEVICES, ETC. BEFORE SUBMITTING HIS BID.

15. COORDINATE ALL DIMENSIONS WITH GENERAL CONTRACTOR FOR LOCATION OF EQUIPMENT, OPENINGS, BASES, ETC.

16. DUCT SIZES INDICATED ARE FOR FREE AREA. ELBOWS SHALL BE EITHER DOUBLE RADIUS OR MITRE WITH TURNING VANES, SEAL ALL JOINTS AND SEAMS AS INDICATED ON THE DETAILS.

17. MECHANICAL CONTRACTOR SHALL PROVIDE OPPOSED BLADE DAMPERS AT DISCHARGE REGISTERS IN LIEU OF VOLUME DAMPERS AT ALL DUCT BRANCHES.

18. GUARANTEE

    CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING ALL WORKMANSHIP AND MATERIALS FOR PERIOD OF ONE YEAR FROM DATE AF ACCEPTANCE.

19. CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR CONDITIONING SUPPLY AIR OUTLET, AS PER SCHEDULES & DRAWINGS, SYSTEMS SHALL BE BALANCED AGAINST THE INSTALLED STATIC PRESSURE.

20. ANY APPARATUS, APPLIANCE, MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

21. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COST INCURRED RESULTING FROM SUBSTITUTION OF EQUIPMENT AS WELL AS THE PERFORMANCE AND SPACE REQUIREMENTS OF SUCH EQUIP.

22. TEST

    ALL TEST SHALL BE PERFORMED AS REQUIRED DURING THE DIFFERENT STAGE OF WORK AND A FINAL 24 HOUR MINIMUM RUNNING TEST AND BALANCING OPERATION HAVE BEEN DONE.

23. TEST AND BALANCED.

    TEST AND BALANCE OF ALL EQUIPMENT SHALL BE PERFORMED BY AND INDEPENDENT TEST AND BALANCE COMPANY WITH A MINIMUM OF 5 YEARS EXPERIENCE IN PROJECTS OF THIS SIZE OR LARGER. THREE COPIES OF TEST AND BALANCED REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

SPECIAL BIDDING NOTES

1. NOT ALL EXISTING ITEMS HAVE BEEN ON THE PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A WALK-THRU OF THE PROJECT PRIOR TO SUBMITTING A BID IN ORDER TO IDENTIFY POSSIBLE CONFLICTS WITH THE NEW WORK.

2. FAILURE OF BIDDERS TO MAKE REQUIRED VISITATIONS AND/OR INVESTIGATIONS TO INFORM THEMSELVES FULLY OF EXISTING CONDITIONS, AND TO INCLUDE IN THEIR PROPOSALS A SUM SUFFICIENT TO COVER ALL POSSIBLE FIELD CONDITIONS, WILL NOT IN ANY WAY ENTITLE THEM TO ANY EXTRA CHARGES OVER AND ABOVE THEIR ORIGINAL PROPOSALS.

3. CONTRACTOR SHALL TAKE ALL PRECAUTIONS REQUIRED TO PROTECT ALL CONCEALED UTILITIES, AND SHALL INSPECT CEILINGS AND CHASES TO ASSURE PROPER IDENTIFICATION OF EXISTING UTILITIES PRIOR TO CUTTING, PATCHING, CAPPING, ETC., AS REQUIRED AND INDICATED ON THE CONSTRUCTION DOCUMENTS.

4. PRIOR TO COMMENCING WORK FLOOR, CONTRACTOR SHALL VISIT THE AREA AND BECOME FAMILIARIZED WITH ALL EXISTING CONDITIONS OF THE SPACE. CONTRACTOR SHALL REVIEW THE SCOPE OF WORK TO BE PERFORMED AND SHALL IMMEDIATELY BRING TO THE ARCHITECT'S ATTENTION ANY DISCREPANCIES OR CONDITIONS WHICH IN THE CONTRACTOR'S OPINION MAY AFFECT THE EXECUTION OF THE WORK.

5. CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN PENETRATING EXISTING WALLS OR FLOOR/CEILING SLABS SO STRUCTURAL INTEGRITY OF SUCH ELEMENTS IS NOT DEGRADED. CONTRACTOR SHALL RESTORE EXISTING SURFACES SCHEDULED TO REMAIN THAT ARE AFFECTED BY SCOPE OF WORK. CONTRACTOR SHALL SEAL TIGHT ALL NEW PENETRATIONS IN WALLS AND FLOOR/CEILING SLABS TO PRESERVE THE REQUIRED FIRE RATING INTEGRITY.

11/12/10

06/21/10

MECHANICAL NOTES, SYMBOLS , DETAILS

SCALE: NTS

PROJECT NO: 0905-049

uciengineering
From Vision to Reality

4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

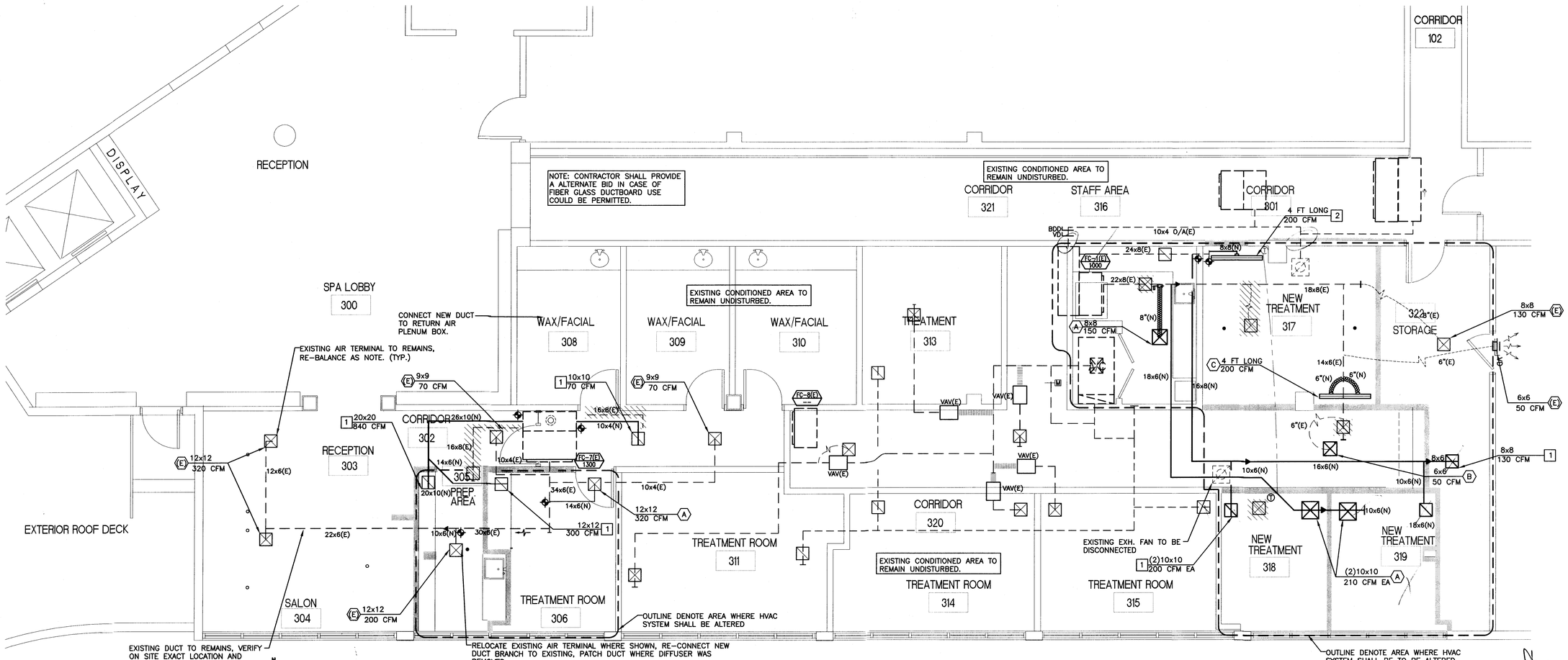
Drawing Title

MECHANICAL NOTES, SYMBOLS, DETAILS

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

M-0

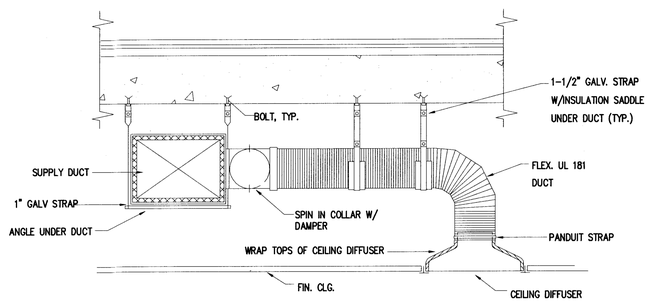
Drawing No.



PARTIAL THIRD FLOOR SPA REFLECTED CEILING PLAN

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

11/12/10



DUCT CONNECTIONS TO CEILING DIFFUSERS DETAIL

NTS

SUPPLY/ RETURN AIR DIFFUSER SCHEDULE

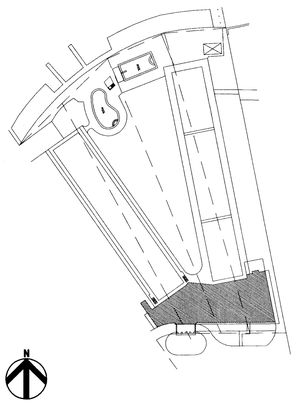
DIFFUSER #	USE	TYPE	MANUFACTURER & MODEL No.	COMMENTS
A	SUPPLY AIR	CEILING DIFFUSER	TITUS, TDC-AA(*)	MATTE WHITE COLOR FINISH WITH ROUND NECK CONNECTION FRAME WITH OBD.
B	SUPPLY AIR	CEILING DIFFUSER	TITUS, TDC-AA(*)	MATTE WHITE COLOR FINISH WITH ROUND NECK CONNECTION, 24X24 MODULE & FRAME TYPE 1 WITH ADJUSTABLE AND OBD.
C	SUPPLY AIR	LINEAR DIFFUSER	ML-38(NOTE-3)	TWO SLOT, 3/4" SLOT, O.B.D.
1	RETURN AIR	CEILING GRILLE	TITUS, 350 FS(*)	OBD.
2	RETURN AIR	LINEAR DIFFUSER	ML-39(NOTE-3)	TWO SLOT, 3/4" SLOT, O.B.D.

(*) AIR DEVICES SHALL MATCH EXISTING MODEL AT SITE, SUGGESTED MODEL ARE BASED ON PREVIOUS HVAC DESIGN.

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

1- COLOR AND FINISH AS SELECTED BY ARCHITECT.
2- ALL AIR DISTRIBUTION DEVICES SHALL BE EXTRUDED ALUMINUM CONSTRUCTION AND CONCEALED MOUNTING FRAME FRAME FOR ACOUSTICAL OR PLASTER CEILING INSTALLATION.
3- PROVIDE INSULATED PLENUM BOX FOR ACTIVE LINEAR DIFFUSERS.

KEY LOCATION PLAN



06/21/10

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uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

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Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
MECHANICAL CEILING PLAN AND DETAILS

Drawn By	Issue Date
PI	8.27.09
Checked By	Scale
AJM	1/4" = 1'-0"

M-1
Drawing No.

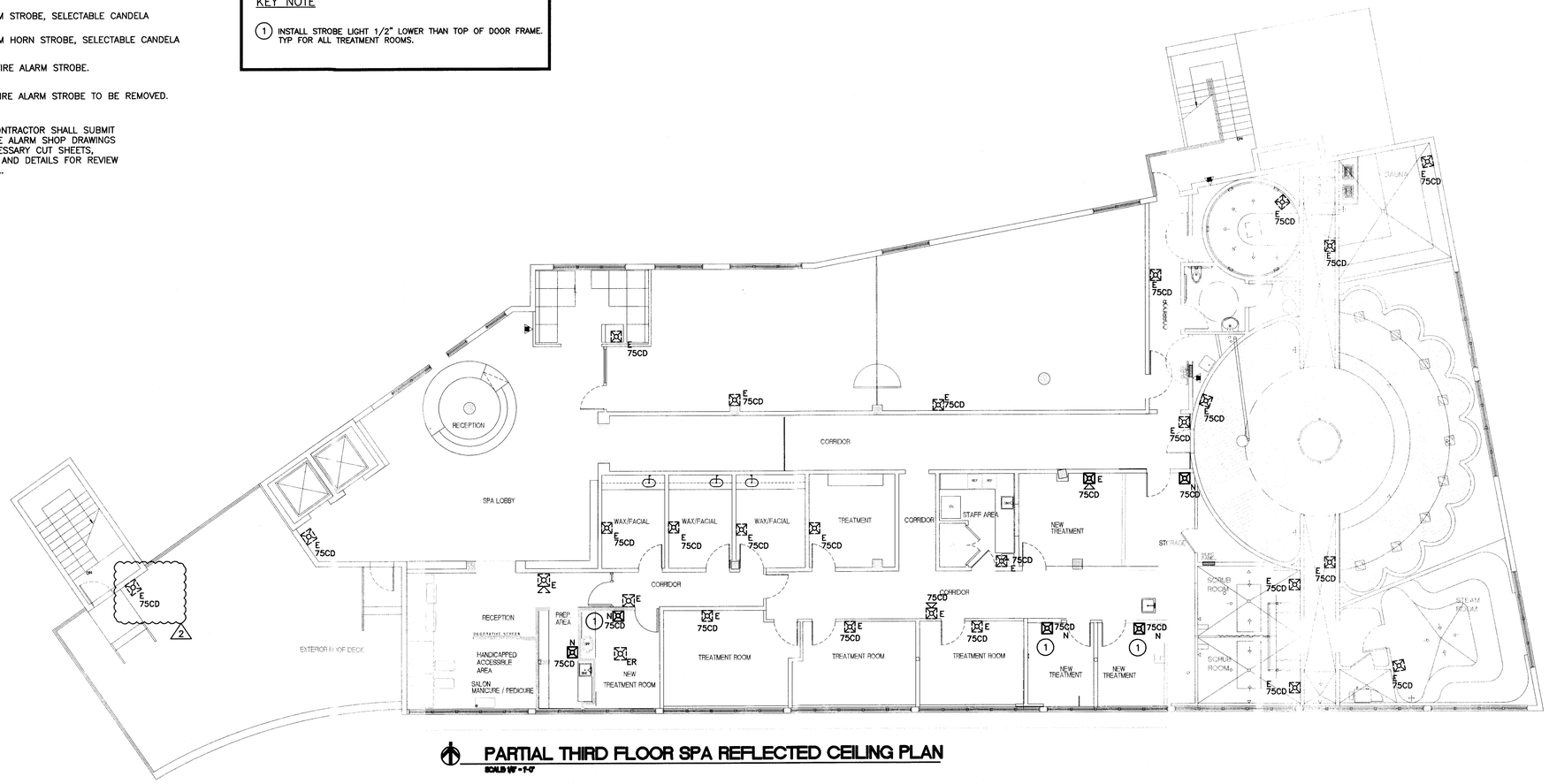
FIRE ALARM LEGEND

- FIRE ALARM STROBE, SELECTABLE CANDELA
- FIRE ALARM HORN STROBE, SELECTABLE CANDELA
- E EXISTING FIRE ALARM STROBE.
- ER EXISTING FIRE ALARM STROBE TO BE REMOVED.

NOTE:
ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE FIRE ALARM SHOP DRAWINGS WITH ALL NECESSARY CUT SHEETS, CALCULATIONS AND DETAILS FOR REVIEW AND APPROVAL.

KEY NOTE

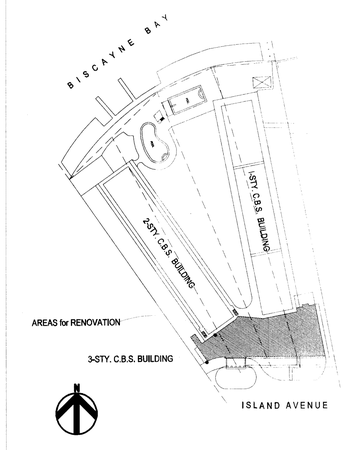
1. INSTALL STROBE LIGHT 1/2" LOWER THAN TOP OF DOOR FRAME. TYP FOR ALL TREATMENT ROOMS.



PARTIAL THIRD FLOOR SPA REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"

KEY LOCATION PLAN



12/14/10

11/3/10

PROJECT NO: 0905-049

uciengineering
From Vision to Reality

4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: ucl@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

1	10/26/10	B.D.C
2	11/03/10	B.D.C

STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8045

Electrical Engineer
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8045
A.A.26000962

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

FIRE ALARM FLOOR PLAN

PI 8.27.09

AJM 1/8" = 1'-0"

FA-1

ABBREVIATIONS & SYMBOLS

AC,A/C	ALTERNATING CURRENT, AIR CONDITIONING
AFF	ABOVE FINISH FLOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTOR
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT OR ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO.	AUTOMATIC
AVG.	AVERAGE
B.F.C.	BELOW FINISHED CEILING
BLDG.	BUILDING
C	CONDUIT
CLG.	CEILING
CONN.	CONNECTION
CONT.	CONTINUOUS
CU	COPPER, CONDENSING UNIT
CT	MEASURING CURRENT TRANSFORMER
CWP	CONDENSER WATER PUMP
DIM.	DIMENSION
DWG.	DRAWING
EA.	EACH
EC	EMPTY CONDUIT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EL., ELEV.	ELEVATION
ELEC.	ELECTRICAL
EMER.	EMERGENCY
ENCL.	ENCLOSURE
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
E.W.H.	ELECTRICAL WATER HEATER
EXIST.	EXISTING
EXPO.	EXPOSED
EXT.	EXTERIOR
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBC	FLORIDA BUILDING CODE
FIN.	FINISH
FIXT.	FIXTURE
FL.,FLR.	FLOOR
FLA	FULL LOAD AMPS, FLORIDA
FT	FEET
GALV.	GALVANIZED
GFI	GROUND FAULT INTERRUPT
H,HT.	HEIGHT
HOA	HAND–OFF–AUTOMATIC
HP	HORSEPOWER
HZ.	HERTZ (CYCLES)
I.G.	ISOLATED GROUND
IN.	INCH(ES)
INC.	INCANDESCENT
INT.	INTERIOR
kHz	KILOHERTZ
KW	KILOWATTS
KWH	KILOWATT HOUR
L	LENGHT
LRA	LOCKED ROTOR AMPS
M	MOTOR
MAX	MAXIMUM
MCA	MINIMUN CIRCUIT AMAPACITY
MD	MOTORIZED DAMPER
MECH.	MECHANICAL
MH.	MANHOLE, METAL HALIDE, MAN–HOUR
MIN.	MINIMUM, MINUTE
MOCP	MINIMUN OVER CURRENT PROTECTION
MTD.	MOUNTED
NA	NOT AVAILABLE, NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.I.C.	NOT IN CONTRACT
NO., #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
OSHA	OCCUPATIONAL SAFETY & HEALTH ACT
P	POLE
P.E.	PROFESSIONAL ENGINEER
PH.	PHASE
PNL.	PANEL
PVC	POLYVINYL CHLORINE
PWR.	POWER
RECEP., REC.	RECEPTACLE
REF.	REFERENCE
RLA	RUNNING LOAD AMPACITY
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
S/D	SMOKE DAMPER
SECT.	SECTION
S/N	SOLID NEUTRAL
SPECS.	SPECIFICATIONS
SQ.	SQUARE
STD.	STANDARD
SURF.	SURFACE
SYM.	SYMMETRICAL
TEMP.	TEMPERATURE
TXR	TRANSFORMER
TYP.	TYPICAL
UC.	UNDERCUT
U.G.	UNDERGROUND
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT, VOLUME
VP	VAPOR PROOF
VFD	VARIABLE FREQUENCY DRIVE
VT	MEASURING VOLTAGE TRANSFORMER
W.	WIRE, WATT, WIDE
W/	WITH
WP	WATER PROOF
Y	WYE

ELECTRICAL LEGEND

SWITCH (+48" CL, AFF UNLESS OTHERWISE NOTED.)
BLANK = SINGLE POLE — 2 = DOUBLE POLE
3 = THREE–WAY — 4 = FOUR–WAY
D = DIMMER — K = KEY OPERATED
LV= LOW VOLTAGE — L = LOCK
LM= LOW VOLTAGE MASTER — P = WITH PILOT LIGHT
PB= PUSH BUTTON STATION — RC= REMOTE CONTROL
T = TIMER OPERATED — WP= WEATHER PROOF
X = EXPLOSION PROOF — Mo= OCCUPANCY SENSOR

SWITCH THREE–WAY (+48" CL, AFF UNLESS OTHERWISE NOTED.)

SWITCH FOUR–WAY (+48" CL, AFF UNLESS OTHERWISE NOTED.)

DUPLEX RECEPTACLE, WALL. (+18" CL, AFF UNLESS OTHERWISE NOTED.) "GFI" GROUND FAULT TYPE, "WP" WEATHER PROOF.

DUPLEX RECEPTACLE, WALL. BOTTOM HALF SWITCHED. (+18" CL, AFF UNLESS OTHERWISE NOTED.)

DUPLEX RECEPTACLE. (+48" CL, AFF UNLESS OTHERWISE NOTED.)

TWO DUPLEX RECEPTACLES IN TWO GANG OUTLET BOX "D" DESIGNATION MEANSDEDICATED. (+18" CL, AFF UNLESS OTHERWISE NOTED.)

DUPLEX RECEPTACLE. FLOOR.

TWO DUPLEX RECEPTACLES IN TWO GANG OUTLET BOX, FLOOR.

SINGLE RECEPTACLE, WALL. (+18" CL, AFF UNLESS OTHERWISE NOTED.)

SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AS NOTED. WALL.

TELEPHONE OUTLET, WALL.

DATA OUTLET, WALL.

COMB. DATA OUTLET–TELEPHONE OUTLET, WALL

TV OUTLET, WALL.

TELEPHONE OUTLET, FLOOR.

DATA OUTLET, FLOOR.

COMB. DATA OUTLET–TELEPHONE OUTLET, FLOOR.

TV OUTLET, FLOOR.

JUNCTION BOX, WALL.

JUNCTION BOX, FLOOR.

JUNCTION BOX

JUNCTION BOX, CEILING

LIGHTING FIXTURE TYPE DESIGNATION.

CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE. (SIZE MAY VARY SEE LIGHTING FIXTURE SCHEDULE.)

CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE.

FLUORESCENT LIGHTING FIXTURE STRIP.

CEILING MOUNTED (RECESSED) INCANDESCENT, CIRCLE OR HID LIGHTING FIXTURE.

CEILING MOUNTED (SURFACE OR PENDANT) INCANDESCENT, CIRCLE OR HID LIGHTING FIXTURE.

WALL MOUNTED INCANDESCENT, CIRCLE OR HID LIGHTING FIXTURE.

IN GRADE/FLOOR MOUNTED LIGHT FIXTURE

LIGHT TRACK. "Δ" = FIXTURE.

POST ARM MOUNTED LIGHTING FIXTURE. ARROW(S) INDICATES DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.

JUNCTION BOX FOR LIGHTING FIXTURE AND FAN CEILING MOUNTED

CEILING MOUNTED EXIT LIGHT SIGN. (PROVIDE ARROWS AS INDICATED ON DRAWINGS.)

WALL MOUNTED EXIT LIGHT SIGN. (PROVIDE ARROWS AS INDICATED ON DRAWINGS.)

SELF–CONTAINED EMERGENCY LIGHTING UNIT, WALL.

TC — ELECTRIC TIME CLOCK

PUSHBUTTON. ("K" INDICATES KEY–OPERATED.)

ELECTRIC MOTOR CONNECTION. NUMBER DENOTES HORSEPOWER

FAN MOTOR MOTOR CONNECTION.

FD/SD — FIRE DAMPER/SMOKE DAMPER WITH ACCESS PANEL

DISCONNECT SWITCH. "a"=PHASE, "b"= AMP FRAME, "c"= AMP. FUSE "f"=FUSIBLE. C=0 NOT FUSED

MAGNETIC MOTOR STARTER.

COMBINATION MAGNETIC MOTOR STATER & DISCONNECT SWITCH.

VFD — VARIABLE FREQUENCY DRIVE

GROUND CONNECTION.

BRANCH CKT HOME RUN.
DENOTE NUM. OF UNGROUNDED SERVICE WIRE
DENOTE NEUTRAL WIRE
DENOTE GROUND WIRE

CONDUIT CONCEALED IN OR UNDER FLOOR SLABS.

CONDUIT STUB

CONDUIT TURNED UP.

CONDUIT TURNED DOWN.

FLEXIBLE CONNECTION TO EQUIPMENT.

ELECTRICAL METER

ELECTRICAL PANEL

RECESSED DISTRIBUTION PANEL

ATS — AUTOMATIC TRANSFER SWTCH

TXR — TRANSFORMER

SD — SINGLE–STATION SMOKE DETECTOR.
–WIRED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTUATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT
–ALL SUCH DETECTORS SHALL BE BATTERY BACK–UP (S.F.B.C. 3127 (H))

NOTE: ALL SYMBOLS DO NOT NECESSARILY APPEAR IN THIS LEGEND. SEE OTHER SHEETS.

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION PER CODE.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.

3. ALL MATERIAL SHALL BE NEW AND SHALL BEAR UL LABEL WHERE APPLICABLE. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION. ALL MOUNTING HARDWARE AND WIRING HARDWARE SHALL BE FURNISHED BY THE CONTRACTOR.

4. CIRCUITS SHOWN ON THESE PLANS ARE SYMBOLICALLY SHOWN TO DETERMINE LOAD DATA AND EQUIPMENT SIZES. THE CONTRACTOR SHALL PHYSICALLY PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS. THE LOADS SHALL BE BALANCED THROUGHOUT. THE CONTRACTOR SHALL ENSURE THAT NEUTRAL WIRES AND EQUIPMENT GROUND WIRES ARE INSTALLED WHERE EVER APPLICABLE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE POWER UTILITY TO OBTAIN TEMPORARY POWER DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE POWER UTILITY TO SCHEDULE INSTALLATION OF TEMPORARY POWER SO THAT CONSTRUCTION DELAYS ARE AVOIDED.

6. THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY TO OBTAIN PERMANENT POWER IN ACCORDANCE WITH THESE DRAWINGS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE POWER UTILITY TO SCHEDULE THE INSTALLATION OF PERMANENT POWER SO THAT DELAYS ARE AVOIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER UTILITY EARLY ON TO IDENTIFY ANY ISSUES AFFECTING PERMANENT POWER SERVICE AND TO WORK TOWARDS RESOLVING ANY ISSUES REGARDING PERMANENT SERVICE.

7. THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE COMPANY TO OBTAIN TELEPHONE SERVICE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE TELEPHONE COMPANY TO SCHEDULE INSTALLATION OF TELEPHONE SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE TELEPHONE COMPANY EARLY ON TO IDENTIFY ANY ISSUES AFFECTING TELEPHONE SERVICE AND TO WORK TOWARDS RESOLVING ANY ISSUES DELAYING INSTALLATION.

8. IF APPLICABLE, THE CONTRACTOR SHALL COORDINATE WITH THE CABLE TV COMPANY IN THE SAME MANNER AS DESCRIBED IN PARAGRAPHS 6 AND 7 FOR POWER AND TELEPHONE UTILITIES.

9. IF ANY OR ALL OF THE UTILITIES (ELECTRICAL, TELEPHONE, CATV) ARE EXISTING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE EXISTING SYSTEMS PRIOR TO BID. THE CONTRACTOR SHALL TRACE DOWN ALL CIRCUITS AND WIRING AND SHALL VERIFY THAT CAPACITY IS AVAILABLE FOR THE SCOPE OF THE PROJECT. THE CONTRACTOR SHALL FIELD INSPECT ALL EXISTING EQUIPMENT AND SHALL ENSURE THAT ALL RATINGS, FUSES, ENCLOSURES, ETC. ARE PROPER FOR THE SCOPE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT ANY EQUIPMENT, WIRING ETC. THAT IS REUSED AND SHALL GUARANTEE THE PERFORMANCE OF SUCH EQUIPMENT FOR ONE YEAR. THE CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT IS DAMAGED OR IN POOR CONDITION. A LIST OF EQUIPMENT IDENTIFIED FOR REPLACEMENT SHALL BE PROVIDED TO THE OWNER (OR THE OWNER'S REPRESENTATIVE) AND THE ENGINEER PRIOR TO REPLACEMENT.

10. THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE DRAWINGS AND SHALL VISIT AND BECOME FAMILIAR WITH THE JOB SITE AND ALL EXISTING CONDITIONS PRIOR TO BID. ANY QUESTIONS, COMMENTS, DISCREPANCIES OR PERCEIVED AMBIGUITIES SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO BID.

11. ELECTRICAL DESIGN IS BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL PIECES OF EQUIPMENT PRIOR TO ROUGH ELECTRICAL WIRING. THE CONTRACTOR SHALL CHECK ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMP RATING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL CONTACT ENGINEER PRIOR TOO ANY FIELD ADJUSTMENTS.

12. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.

13. ALL PANELS SHALL BE CLEARLY LABELED ON THE OUTSIDE FOR QUICK AND EASY IDENTIFICATION. ALL CIRCUITS IN ALL PANELS SHALL BE CLEARLY IDENTIFIED AND SHALL APPEAR WITH COMPLETE INFORMATION (DESCRIPTION OF CIRCUIT, BREAKER SIZE, NUMBER OF POLES AND BREAKER POSITION NUMBERS) ON THE PANEL DIRECTORIES. IN ADDITION, THE VOLTAGE, PHASE AND AMP RATING OF THE PANEL SHALL CLEARLY BE IDENTIFIED ON THE INSIDE DOOR. THE ABOVE APPLIES FOR ANY AND ALL EXISTING TO REMAIN PANEL BOARDS AND CIRCUITS.

14. PLANS SHOWING AS–BUILT CHANGES SHALL BE DELIVERED TO THE OWNERS REPRESENTATIVE UPON COMPLETION OF WORK. ELECTRICAL CONTRACTOR TO MANTAIN A SET OF AS–BUILT PLANS THROUGHOUT CONSTRUCTION.

15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE THIS INSTALLATION IN COMPLIANCE WITH ALL FIRE PREVENTION CODES SUPERCEDING ALL DRAWINGS, SPECIFICATIONS AND NOTES. THE CONTRACTOR SHALL COMMUNICATE AND COORDINATE WITH THE FIRE MARSHALL AND SHALL PROVIDE ALL NECESSARY INFORMATION NEEDED TO SATISFY THAT LIFE SAFETY SYSTEMS ARE TO LOCAL CODE ACCEPTANCE.

16. ALL SERVICE ENTRANCE EQUIPMENT IS TO BE RATED AT 100,000 AIC UNLESS OTHERWISE NOTED. TO PROVIDE SERVICE ENTRANCE EQUIPMENT WITH LOWER RATINGS THE CONTRACTOR SHALL PROVIDE IN WRITING INFORMATION FROM THE POWER UTILITY VERIFYING THAT CALCULATED FAULT CURRENTS ARE AT AN ACCEPTABLE LEVEL TO ACCOMMODATE THE LOWER RATED EQUIPMENT. IF SERVICE ENTRANCE EQUIPMENT IS EXISTING, THE CONTRACTOR SHALL VERIFY THAT AIC RATINGS OF EXISTING EQUIPMENT ARE PROPER. THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY AND THE ENGINEER PRIOR TO BID.

17. ALL OUTSIDE EQUIPMENT, OUTLETS, LIGHTING FIXTURES, ENCLOSURES, ETC. SHALL BE WEATHERPROOF.

18. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS FOR ALL OTHER TRADES.

19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTRACT.

20. THE NUMBER, EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS, LIGHTS AND ELECTRICAL FIXTURES SHALL BE DETERMINED BY THE OWNER AND ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL NUMBERS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO BID AND TO INSTALLATION.

21. THE CONTRACTOR SHALL PROVIDE ROUTING FOR ALL FLOOR MOUNTED OUTLETS AND OTHER LOADS AND CONNECTIONS NOT READILY ACCESSIBLE VIA WALL OR CEILING. THE CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO DETERMINE THE METHOD TO SERVE SUCH AREAS (I.E. TRENCHING, CORE AND BORING, POWER POLE, ETC.) PRIOR TO BID.

22. ALL RACEWAYS AND PIPES PLACED IN OR THROUGH ANY CONCRETE SLAB SHALL BE SPACED A MINIMUM OF THREE DIAMETERS OF THE LARGEST CONDUIT OR PIPE OF ANY OTHER SERVICE.

23. CONDUITS:
PVC SCH. 40 WHEN INSTALLED 12" UNDER SLABS ON GRADE OR WHEN EMBEDDED IN CONCRETE WALLS OR SLABS. IMC WHEN INSTALLED CONCELED IN MANSONRY WALLS, DRY WALLS OR SUSPENDED CEILINGS, ALSO WHEN INSTALLED IN INTERIORS EXPOSED UP TO 8' AFF. EMT INTERORS EXPOSED ABOVE 8' AFF AND AT ANY HEIGHT IN ELECTRICAL, MECHANICAL AND TELECOMMUNICATION ROOMS.

24. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS.

25. DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK, IN NEMA 1 OR NEMA 3R ENCLOSURES AS REQUIRED BY EXPOSURE.

26. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED PER NEC REQUIREMENTS AND STATE AND LOCAL CODE REQUIREMENTS.

27. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. ACCEPTANCE BY ENGINEER/ARCHITECT MUST BE A CONDITION OF THE CONTRACT.

28. EXISTING LIGHTING FIXTURES WHEN REUSED ARE TO BE RECIRCUITED AND RECONNECTED. THE ARCHITECT AND/OR OWNER SHALL BE INFORMED OF AND SHALL APPROVE THE REUSE OF ALL REUSED LIGHT FIXTURES. ALL REUSED LIGHTING FIXTURES SHALL BE RELAMPED, CLEANED AND REPAIRED IF NECESSARY. ANY EXISTING LIGHTING FIXTURE BEYOND REPAIR SHALL BE REPLACED. ALL LIGHTING FIXTURES SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR.

29. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ELECTRICAL SERVICES TO MECHANICAL EQUIPMENT IS ACCOUNTED FOR PRIOR TO BID. IN ADDITION, ALL MECHANICAL EQUIPMENT SUBSTITUTIONS ARE TO BE ACCOUNTED FOR PRIOR TO BID AND SHALL BE COORDINATED ELECTRICALLY.

30. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FORWARD ANY SHOP DRAWINGS TO THE ARCHITECT/OWNER. SHOP DRAWINGS ARE NOT SOLICITED BY THE ENGINEER.

31. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT FIRE STOPPING MEASURES ARE PROVIDED PER LOCAL BUILDING DEPT. REQUIREMENTS. THE FIRE STOPPING MATERIAL AND ITS INSTALLATION SHALL BE UL APPROVED. ALL FIRE STOPPING MATERIAL SHALL BE NON WATER SOLUBLE.

32. DO NOT INSTALL SMOKE DETECTORS CLOSER THAN 5 FEET FROM AIR DIFFUSERS.

33. COORDINATE LOCATION OF AIR CONDITIONING DISCONNECTS WITH ACTUAL EQUIPMENT AND DUCTWORK LAYOUTS IN ORDER TO ENSURE THAT ALL CLEARANCES ARE MET.

34. FUSE ALL DISCONNECTS PER EQUIPMENT NAMEPLATE OR MANUFACTURES REQUIREMENTS.

35. COORDINATE LOCATIONS FOR FLOOR OUTLETS WITH ARCHITECTURAL.

36. PROVIDE NYLON PULL CORD IN ALL TELEPHONE OR DATA CONDUITS.

37. PROVIDE TERMINATION BOXES AND COVER PLATES AT ALL LOCATIONS TO RECEIVE TELEPHONE INSTRUMENTS AND AT DATA BOXES.

38. NOT ALL CONDUITS ARE SHOWN ON SITE PLAN. MOST SYSTEMS CONDUITS HAVE NOT BEEN SHOWN FOR PURPOSE OF CLARITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL CONDUITS REQUIRED ON THE SITE.

39. THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS SHALL TOGETHER COORDINATE THE ELECTRICAL REQUIREMENTS OF ALL A/C EQUIPMENT, NO EXTRA PAYMENTS WILL BE ALLOWED AT END OF JOB FOR ELECTRICAL CONTRACTOR TO CHANGE FUSES INCOMPATIBLE WITH A/C EQUIPMENT.

40. IN CASE OF WIRING SPLICES, ALL SPLICES MUST BE MADE INSPLICE BOXES. ALL SPLICE BOXES MUST BE ACCESSIBLE.

41. CONTRACTOR SHALL MAINTAIN ON SITE TWO REDLINE AS–BUILT SETS OF DRAWINGS AT ALL TIMES. ONE SET SHALL BE FOR THE ENGINEER TO OBTAIN AND UPDATE PLANS. IT IS NOT THE RESPONSABILITY OF THE ENGINEER TO FIELD OBTAIN THE AS–BUILT MARK–UPS.

42. CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED ACCORDING WITH ARTICLE 300.19 AND TABLE 300.19 (A) OF THE NATIONAL ELECTRICAL CODE.

43. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD ELEVATION LEVEL. VERIFY NOVD IN ARCH. PLANS PRIOR INSTALLATION.

44. ELECTRICAL INSTALLATION IN HOLLOW SPACES, VERTICAL SHAFTS, AND VENTILATION OR AIR HANDLING DUCTS SHALL BE MADE ACCORDING WITH ART. 300.21 OF THE NATIONAL ELECTRICAL CODE.

45. CONTRACTOR SHALL PROVIDE FIRE STOPPING SEPARATION BEHIND ELECTRICAL DEVICES WHEN PLACED BACK TO BACK IN RATED WALLS.

46. ALL LOW VOLTAGE CONDUIT, RACEWAYS, WIRING, ROUTING AND EQUIPMENT TO BE COORDINATED AND REVIEWED BY OWNER'S LOW VOLTAGE CONSULTANT.

47. ALL LOW VOLTAGE CONDUIT, RACEWAYS, WIRING, ROUTING AND EQUIPMENT TO BE COORDINATED AND REVIEWED BY OWNER'S SECURITY CONSULTANT.

ELECTRICAL GENERAL NOTES, ABBREVIATION, SYMBOLS AND LEGEND

SCALE: NTS

06/21/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@ucieng.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No	Date	Revision

Owner
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

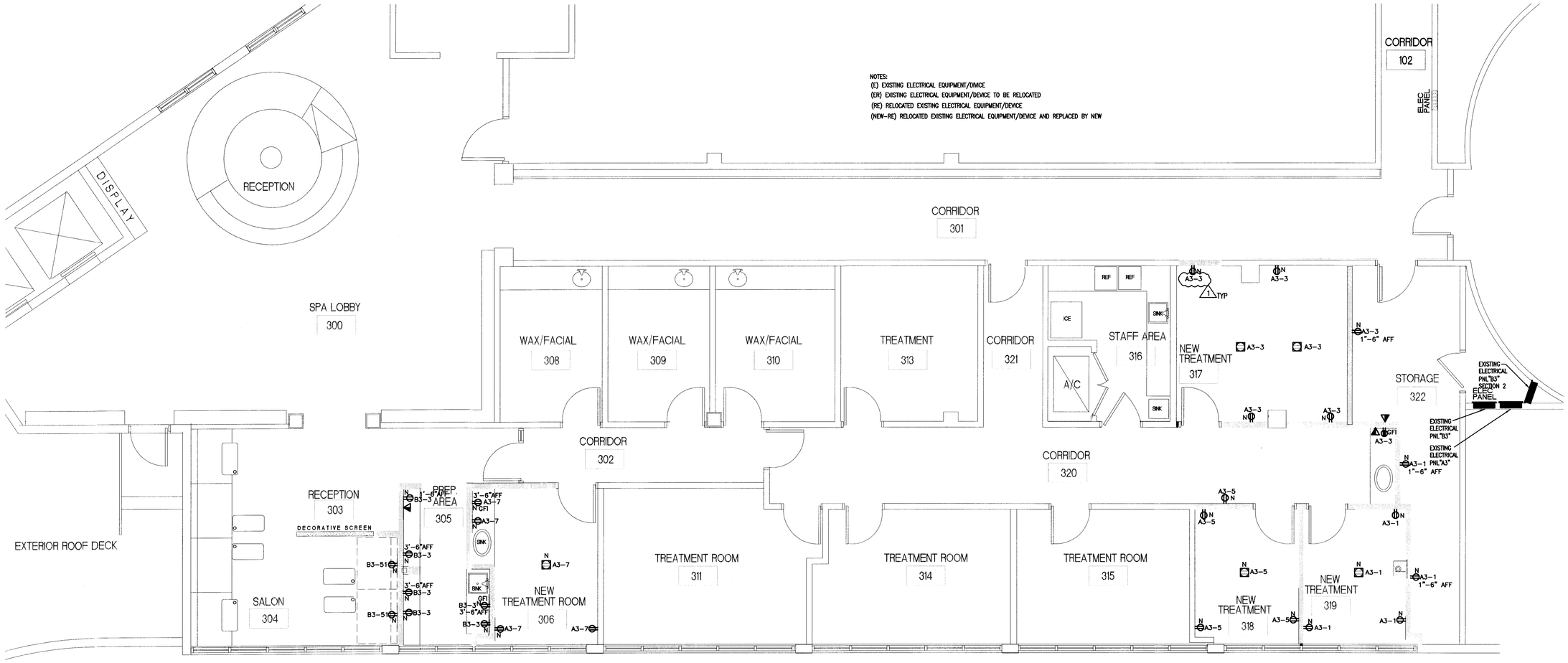
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
ELECTRICAL GRAL NOTES, ABB. SYMBOLS,LEGEND

Drawn By: PI
Issue Date: 8.27.09
Checked By: AJM
Scale: 1/4" = 1'-0"

E-0
Drawing No.

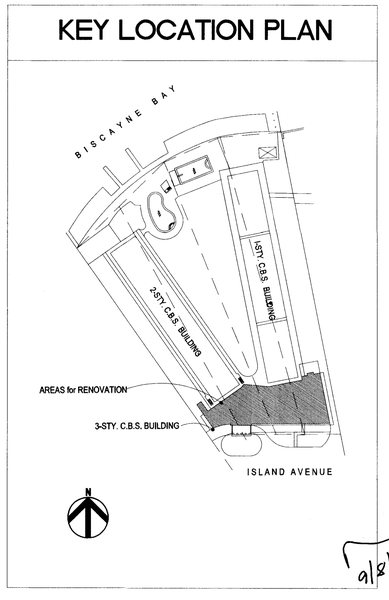
NOTES:
(E) EXISTING ELECTRICAL EQUIPMENT/DMCE
(ER) EXISTING ELECTRICAL EQUIPMENT/DEVICE TO BE RELOCATED
(RE) RELOCATED EXISTING ELECTRICAL EQUIPMENT/DEVICE
(NEW-RE) RELOCATED EXISTING ELECTRICAL EQUIPMENT/DEVICE AND REPLACED BY NEW



PARTIAL THIRD FLOOR SPA FLOOR PLAN

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

KEY LOCATION PLAN



No.	Date	Revision
1	09/07/10	B.D.C

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

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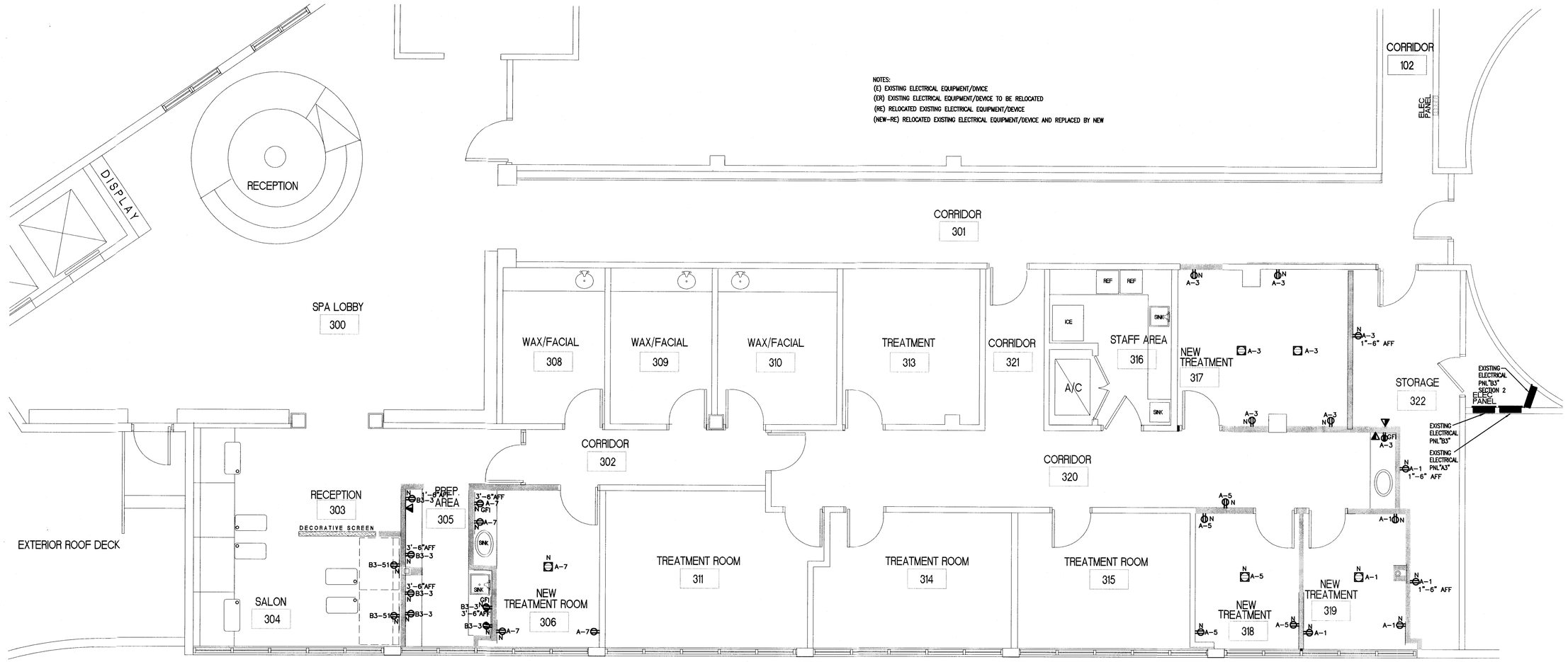
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
ELECTRICAL FLOOR PLAN

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

E-1
Drawing No.

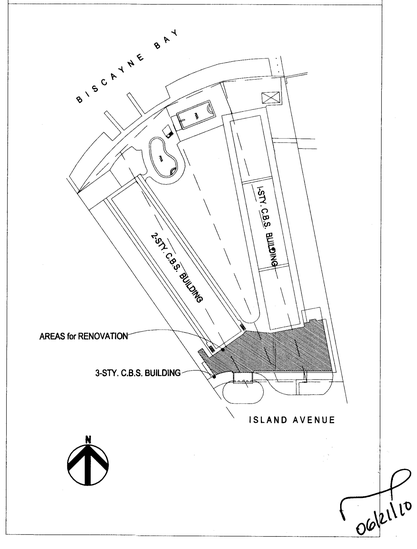
PROJECT No: 0905-049
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengi.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers
uciengineering
From Vision to Reality



PARTIAL THIRD FLOOR SPA FLOOR PLAN

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

KEY LOCATION PLAN



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uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
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R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

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MIAMI BEACH, FL 33139

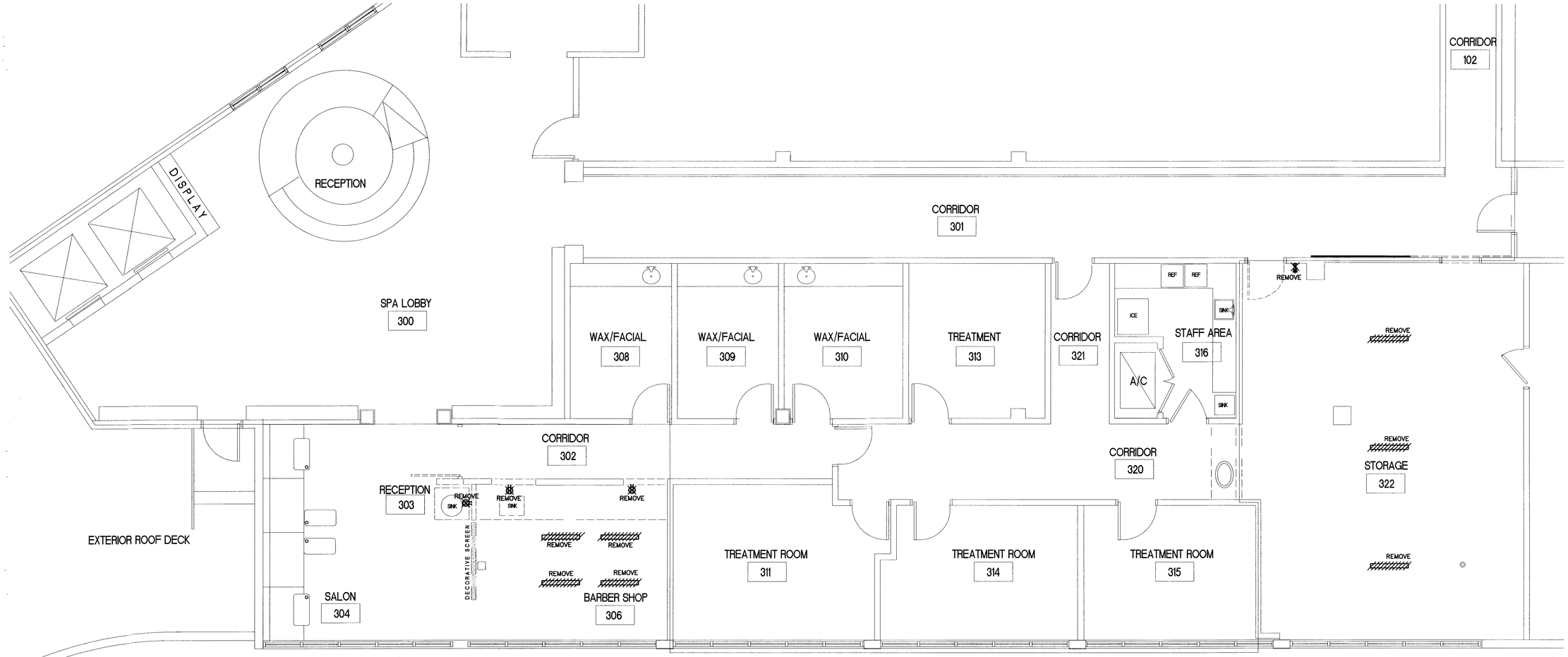
Drawing Title

ELECTRICAL FLOOR PLAN

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

E-1

Drawing No.



1 PARTIAL THIRD FLOOR SPA DEMOLITION PLAN

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

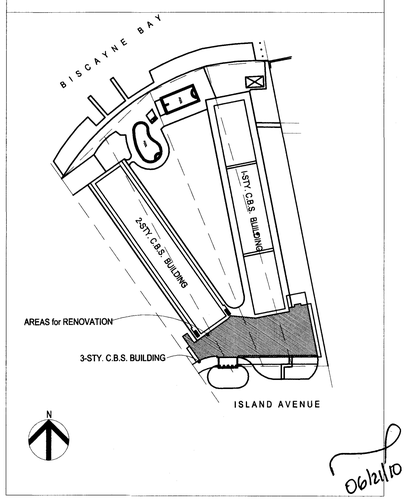
GENERAL NOTES - DEMOLITION

A. EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA, DISCONNECT WIRING AT THE OVERCURRENT PROTECTION DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.

B. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.

C. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

KEY LOCATION PLAN



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uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title

ELECTRICAL 3RD FLOOR DEMOLITION PLAN

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

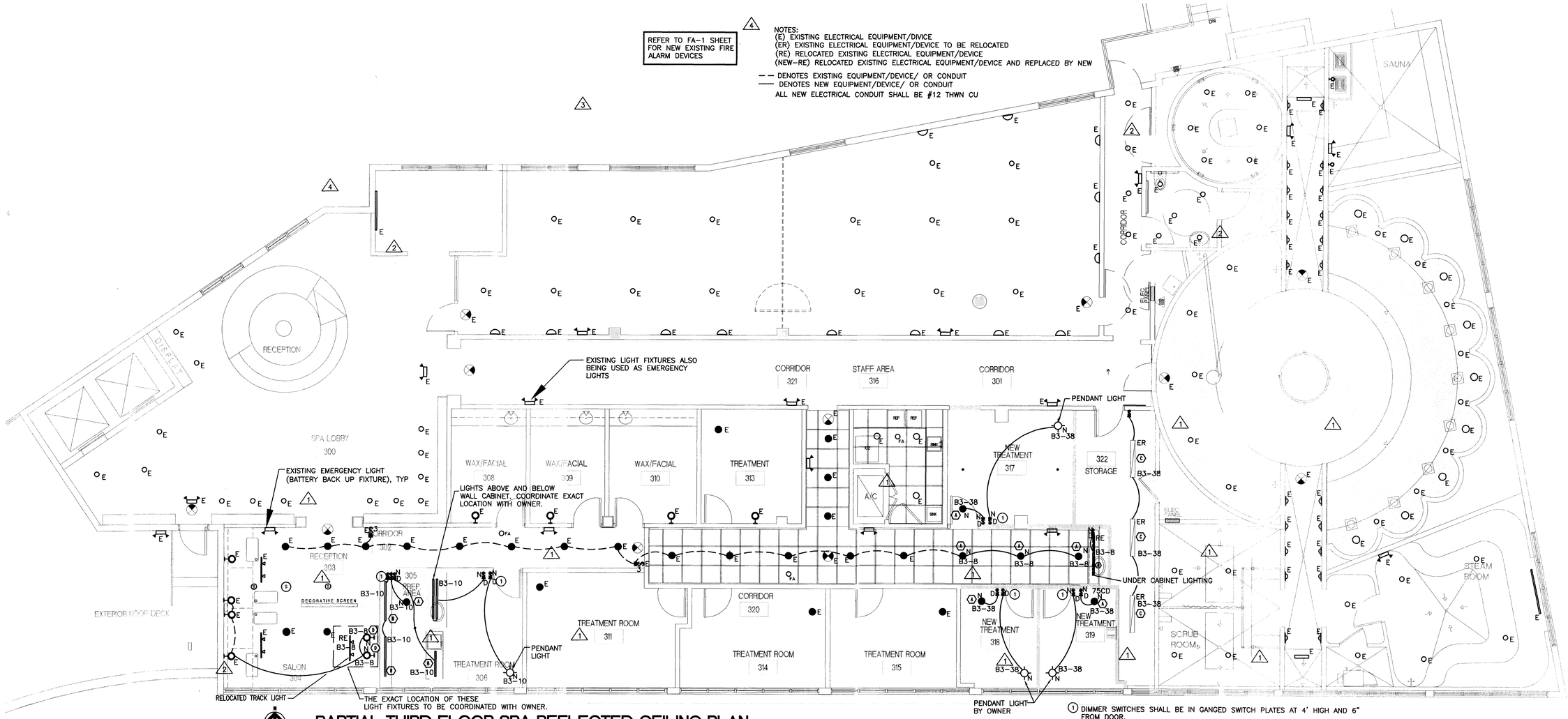
E-1D

Drawing No.

REFER TO FA-1 SHEET FOR NEW EXISTING FIRE ALARM DEVICES

NOTES:
(E) EXISTING ELECTRICAL EQUIPMENT/DIVICE
(ER) EXISTING ELECTRICAL EQUIPMENT/DEVICE TO BE RELOCATED
(RE) RELOCATED EXISTING ELECTRICAL EQUIPMENT/DEVICE
(NEW-RE) RELOCATED EXISTING ELECTRICAL EQUIPMENT/DEVICE AND REPLACED BY NEW

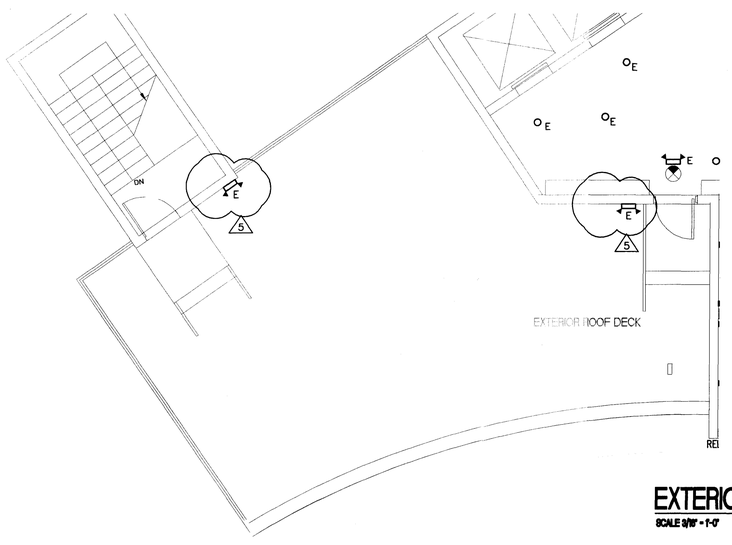
— — DENOTES EXISTING EQUIPMENT/DEVICE/ OR CONDUIT
—— DENOTES NEW EQUIPMENT/DEVICE/ OR CONDUIT
ALL NEW ELECTRICAL CONDUIT SHALL BE #12 THWN CU



① DIMMER SWITCHES SHALL BE IN GANGED SWITCH PLATES AT 4' HIGH AND 6" FROM DOOR. TYP FOR ALL TREATMENT ROOMS

PARTIAL THIRD FLOOR SPA REFLECTED CEILING PLAN

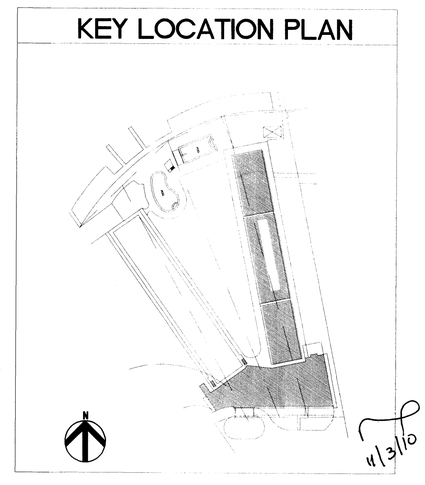
SCALE: 3/16" = 1'-0"



EXTERIOR ROOF DECK ENLARGED VIEW

SCALE 3/16" = 1'-0"

KEY LOCATION PLAN



12/4/10

11/3/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: ucl@ucleng.com
R.J. Miranda P.E. No. 35679
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

	Date	Revision
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3	10/07/10	B.D.C
4	10/26/10	B.D.C
5	11/03/10	B.D.C

Owner
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

Electrical Engineering
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

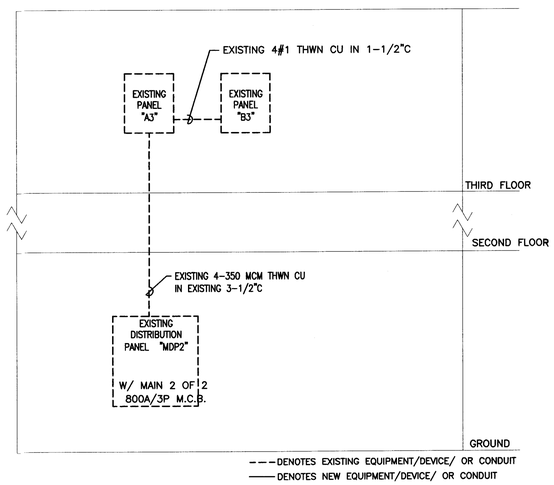
Drawing Title
ELECTRICAL REFLECTED CEILING PLAN

Issue No.	Issue Date
PI	8.27.09

Drawn by	Scale
AJM	1/4" = 1'-0"

E-2

12/4/10



PARTIAL ELECTRICAL RISER DIAGRAM

1

EXISTING ELECTRICAL PANEL SCHEDULE "A3"

TYPE: PANEL BOARD
MOUNTING: FLUSH
LOCATION: 3RD LEVEL
ENCLOSURE: NEMA 1

MAINS: M.L.O.
BUS RATING: 400 AMPS
VOLTAGE: 120/208-3PHASE-4WIRE
FED FROM: PANEL"MDP2"

	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B C	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
NEW	REC TREATMENT R.	#12-1/2"	1,000	1 / 20	1		2	2 / 60	8,800	EXISTING	EXISTING
NEW	REC TREATMENT R.	#12-1/2"	1,200	1 / 20	3		4				
NEW	REC TREATMENT R.	#12-1/2"	1,000	1 / 20	5		6	2 / 60	8,800	EXISTING	EXISTING
NEW	REC TREATMENT R.	#12-1/2"	1,200	1 / 20	7		8				
	EXISTING	EXISTING	3,500	2 / 30	9		10				SPACE
					11		12				SPACE
	EXISTING	EXISTING	6,500	2 / 40	13		14	2 / 30	3,500	EXISTING	EXISTING
					15		16				
	EXISTING	EXISTING	5,500	2 / 35	17		18	2 / 30	5,000	EXISTING	EXISTING
					19		20				
	EXISTING	EXISTING	3,500	2 / 30	21		22	3 / 125	42,595	EXISTING	EXISTING PNL"B3"
					23		24				
	EXISTING	EXISTING	700	1 / 20	25		26				
	EXISTING	EXISTING	700	1 / 20	27		28	1 / 20	700	EXISTING	EXISTING
	EXISTING	EXISTING	700	1 / 20	29		30	1 / 20	700	EXISTING	EXISTING
	EXISTING	EXISTING	1,330	1 / 20	31		32	3 / 15	870	EXISTING	EXISTING
	EXISTING	EXISTING	700	1 / 20	33		34				
	EXISTING	EXISTING	700	1 / 20	35		36				
	EXISTING LTS	EXISTING	1500	1 / 20	37		38	2 / 60	10,000	EXISTING	EXISTING
	SPACE				39		40				
	SPACE				41		42				SPACE

* THE LOAD IN THIS CIRCUIT HAS BEEN UPDATED

LOAD CALCULATION PANEL

TOTAL DEMANDED LOAD = 110,695 VA
TOTAL DEMAND AMPS = 308 AMPS PER PHASE

NOTE: ELECTRICAL CONTRACTOR TO FIELD VERIFY BRANCH CIRCUIT, POSITION AN CONNECTION.
ALL PANELS SHALL HAVE UPDATED BRANCH CIRCUITS LABELS.

EXISTING PANEL 'B3' (SECTIONS 1)

TYPE: PANEL BOARD
MOUNTING: FLUSH
LOCATION: 3RD LEVEL
ENCLOSURE: NEMA 1

MAINS: M.L.O.
BUS RATING: 125 AMPS
VOLTAGE: 120/208-3PHASE-4WIRE
FED FROM: PANEL"A3"

	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B C	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
	EXISTING REC.	EXISTING	750	1 / 20	1		2	1 / 20	800	EXISTING	EXISTING LTS
*	EXISTING REC.	EXISTING	750	1 / 20	3		4	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	5		6	1 / 20	500	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	7		8	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	9		10	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	11		12	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	13		14	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	15		16	1 / 20	100	EXISTING	EXISTING VAV
	EXISTING REC.	EXISTING	750	1 / 20	17		18	1 / 20	600	EXISTING	EXISTING LTS
	SPACE				19		20	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	21		22	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING REC.	EXISTING	750	1 / 20	23		24	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING PUMP	EXISTING	100	1 / 20	25		26	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING HWT	EXISTING	100	1 / 20	27		28	1 / 20	1,000	EXISTING	EXISTING LTS
	EXISTING PUMP	EXISTING	100	1 / 20	29		30	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING BOILER PUMP	EXISTING	120	1 / 20	31		32	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING LTS	EXISTING	1,000	1 / 20	33		34	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING REC	EXISTING	1,000	1 / 20	35		36	1 / 20	800	EXISTING	EXISTING LTS
	EXISTING REC	EXISTING	1,000	1 / 20	37		38	1 / 20	800	#12-1/2"	EXISTING LTS
	EXISTING REC	EXISTING	500	1 / 20	39		40	1 / 20	1,000	EXISTING	EXISTING GEN LOAD REC
	EXISTING REC	EXISTING	500	1 / 20	41		42	1 / 20			EXISTING REC

* THE LOAD IN THIS CIRCUIT HAS BEEN UPDATED

PANEL WITH SUBFEED LUGS
VERTICALLY MOUNT

EXISTING PANEL 'B3' (2 SECTIONS)

TYPE: PANEL BOARD
MOUNTING: FLUSH
LOCATION: 3RD LEVEL
ENCLOSURE: NEMA 1

MAINS: M.L.O.
BUS RATING: 125 AMPS
VOLTAGE: 120/208-3PHASE-4WIRE
FED FROM: PANEL"A3"

	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B C	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
	KITCHEN REC.	EXISTING	750	1 / 20	43		44	1 / 20	1,000	EXISTING	EXISTING KITCHEN REC
	KITCHEN REC.	EXISTING	750	1 / 20	45		46	1 / 20	500	EXISTING	EXISTING KITCHEN REC
	KITCHEN REC.	EXISTING	750	1 / 20	47		48	1 / 20	1,500	EXISTING	EXISTING KITCHEN REC
	EXISTING LTS	EXISTING	750	1 / 20	49		50	1 / 20	200	EXISTING	EXISTING HUMIDIFIER
	EXISTING LTS	EXISTING	750	1 / 20	51		52	1 / 20	500	EXISTING	EXISTING SUPPLY FAN
*	EXISTING GEN LOAD	EXISTING	1,500	1 / 20	53		54				SPACE
	EXISTING GEN LOAD	EXISTING	800	1 / 15	55		56				SPACE
	EXISTING GEN LOAD	EXISTING	750	1 / 30	57		58				SPACE
	EXISTING GEN LOAD	EXISTING	750	1 / 20	59		60				SPACE
	SPACE				61		62				SPACE
	SPACE				63		64				SPACE
	SPACE				65		66				SPACE
	SPACE				67		68				SPACE
	SPACE				69		70				SPACE
	SPACE				71		72				SPACE

* THE LOAD IN THIS CIRCUIT HAS BEEN UPDATED

LOAD CALCULATION PANEL

TOTAL CONNECTED LOAD = 38,470 VA
CONTINUOUS LOAD AT 125% = 16,500 X 1.25 = 20,625 VA
NON CONTINUOUS LOAD AT % = 21,970 VA
TOTAL DEMANDED LOAD = 42,595 VA
TOTAL DEMAND AMP = 118 AMPS

NOTE: ELECTRICAL CONTRACTOR TO FIELD VERIFY BRANCH CIRCUIT, POSITION AN CONNECTION.
ALL PANELS SHALL HAVE UPDATED BRANCH CIRCUITS LABELS.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION
A	●	NEW NARROW FLOOD FIXTURE TO MATCH EXISTING IN ADJACENT ROOMS. 'LIGHTOLIER' FIXTURE #1052LV=1000LV – 50 WATT HALOGEN NARROW FLOOD 12 VOLT WITH WHITE FINISH.
B		NEW UNDER-CABINET LIGHT FIXTURE NOTE THAT EXISTING FIXTURE IS BEING RELOCATED IN CORRIDOR #320. MATCH EXISTING UNDERCABINET LIGHTING EXISTING IN ADJACENT ROOMS
C		EXISTING 4'-0" TWO-TUBE FLUORESCENT FIXTURES WITH WIREGUARD PROTECTOR TO BE RE-=USED IN NEW LOCATION AS SHOWN ON PLAN.
D		NEW WALL MOUNTED LIGHT FIXTURE AT SALON TO MATCH EXISTING FIXTURES ON OPPOSITE WALL PROVIDED AND INSTALLED BY GC.

ELECTRICAL PARTIAL RISER, PANEL SCHEDULES, LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S

12/4/10

9/8/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciteng.com
R.J. Miranda P.E. No. 35579
David A. Bielsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision
1	09/07/10	B.D.C

Owner
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000262

Project
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
ELECTRICAL RISER, PNL,LTG FIXT SCHED.

Drawn By: PI
Issue Date: 8.27.09
Checked By: AJM
Scale: 1/4" = 1'-0"

Drawing No.
E-3

ABBREVIATIONS & SYMBOLS

AD	AREA DRAIN
ABV.	ABOVE
BLW	BELOW
C.B.	CATCH BASIN
CEIL., CLG.	CEILING
E.W.C.	ELECTRIC WATER COOLER
E.W.H.	ELECTRIC WATER HEATER
FL.	FLOOR
F.U.	FIXTURE UNIT
F.S.	FLOOR SINK
G.W.H.	GAS WATER HEATER
GD	GUTTER DRAIN
R.W.L.	RAIN WATER LEADER
TP	TRAP PRIMER
(UG)	UNDERGROUND
V.T.R.	VENT THRU ROOF
VB	VACUUM BREAKER
WH	WATER HEATER
F.D.V.	FIRE DEPARTMENT VALVE

PLUMBING LEGEND

	SANITARY VENT LINE (V)
	NEW SANITARY WASTE LINE (SAN)
	NEW COLD WATER LINE (CW)
CD	NEW CONDENSATE DRAIN LINE
G	GAS LINE
GW	GREASE WASTE
	NEW HOT WATER LINE (HW)
	NEW HOT WATER RECIRCULATION LINE (HWR)
	INDIRECT SAFE WASTE (IW)
PT	PRESSURE & TEMPERATURE RELIEF LINE
PD	PAN DRAIN
SD	NEW STORM DRAIN LINE
PLD	PLANTER DRAIN PIPING
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
	NEW SAN. LINE
	EXISTING SAN. LINE
F	
	AIR WATER HAMMER ARRESTOR
	BALANCING VLV. W/ INDICATOR
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	GAS COCK VALVE
	SOLENOID VALVE
	VALVE IN BOX
VIV	GATE VALVE IN VERTICAL
HB	HOSE BIBB
FD	FLOOR DRAIN W/ TRAP RESEAL
RD	ROOF DRAIN
	FLOOR SINK (FS)
	P-SAN
	P-EXIST
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
	"P" TRAP
	CONNECT TO EXISTING
	TAMPER SWITCH
	FLOW SWITCH

NOTE:

THIS IS A GENERAL LEGEND FOR SYMBOLS APPLICABLE TO THIS JOB, REFER TO THIS LEGEND.

GENERAL PLUMBING NOTES:

1. INTRODUCTION

A. ALL WORK SHALL BE DONE: IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND WITH ALL APPLICABLE REGULATIONS.
B. DRAWINGS: REFER TO ALL DRAWINGS FOR COORDINATION OF THE PLUMBING WORK.
C. ARRANGE AND PAY: FOR ALL PERMITS, LICENSES, INSPECTIONS AND TESTS. OBTAIN THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
D. GUARANTEE: THE COMPLETED INSTALLATION SHALL BE FULLY GUARANTEED AGAINST DEFECTIVE MATERIALS AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR FOR MATERIAL AND LABOR.
E. ALL HORIZONTAL SANITARY PIPING: SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM FOR 3" AND LARGER AND AT 1/4" SLOPE FOR 2 1/2" PIPES AND SMALLER.
F. ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND CORRECTLY LABELED WITH THEIR APPROPRIATE LISTING AGENCY.

2. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT FOR APPROVAL, WITHIN 30 DAYS OF SIGNING CONTRACT, A MINIMUM OF FIVE COPIES OF FULLY DESCRIPTIVE LITERATURE, INCLUDING BUT NOT LIMITED TO: WATER HEATERS, AND PLUMBING FIXTURES. NO WORK SHALL PROCEED WITHOUT THE APPROVAL OF THESE SUBMITTALS.

3. PLUMBING FIXTURES: FIXTURES SHALL BE AS SELECTED BY OWNER AND SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. FIXTURES SHALL BE COMPLETE WITH DRAINS, TRAPS, SUPPLIES AND ANY OTHER ACCESSORY REQUIRED. FIXTURES AND FAUCETS SHALL COMPLY WITH THE FBC WATER SAVING STANDARDS.

4. MATERIALS:

PIPING:
a. SOIL, WASTE AND VENT, AND STORM: SANITARY PIPE, PVC, DWV, SCHEDULE 40 UNDER GROUND, AND ABOVE GROUND. ALL PIPING IN RETURN PLENUMS SHALL BE CAST IRON.
b. DOMESTIC WATER: COPPER PIPE, TYPE L WITH SWEAT WROUGHT COPPER FITTINGS. TYPE "M"AND CPVC IN CONCEALED SPACES ARE ACCEPTABLE. ISOLATE PIPING FROM CONCRETE WITH INSULATING MATERIAL.
c. DOMESTIC WATER SUPPLY ASSEMBLY: CHROME FINISH TUBING WITH ANGLE SHUT OFF VALVES IN EXPOSED AREAS.
d. P & T RELIEF LINES: CPVC PIPE AND FITTINGS
e. DRAIN PAN LINES: DWV PVC PIPE AND FITTINGS.
f. INSULATED ALL HOT WATER AND CONDENSATE DRAIN PIPING.
g. ALL UNDERGROUND WATER PIPING WITHIN THE BUILDING AND WALKWAYS SHALL BE SOFT COPPER TUBING WITH NO FITTINGS.

5. ALL AUTOMATIC ELECTRIC WATER HEATERS SHALL MEET THE STANDARDS OF THE LATEST ENERGY EFFICIENCY CODE.

6. PIPING TEST AND DISINFECTIONS:

- TEST: ALL SANITARY AND DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED FOR LEAKS BEFORE PIPING IS CONCEALED OR CONNECTED TO EQUIPMENT AND PLUMBING FIXTURES.
- DISINFECTION: ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED BY INTRODUCING A SOLUTION OF CALCIUM HYPO CHLORITE OF 50 PARTS PER MILLION OF CHLORIDE AND AS PER AWWA STANDARDS.

7. VALVES: DOMESTIC WATER VALVES SHALL BE OF BRONZE BODY, SWEAT ENDS.

8. HOSE BIBBS: SHALL BE 3/4 INCH. ROUGH BRASS CONSTRUCTION WITH SHUT OFF VALVE AND VACUUM BREAKER.

9. ALL OUTDOORS FLOOR: CLEAN OUTS SHALL BE TERMINATED UP TO GRADE AND SHALL BE MARKED.

10. CONTRACTOR SHALL COORDINATE: EXACT LOCATION OF ALL PLUMBING SYSTEM PIPING BEFORE STARTING ANY WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DEVIATIONS FROM DESIGN DRAWINGS.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE "TURN-KEY" PLUMBING SYSTEM.

12. CONTRACTOR SHALL KEEP ACCURATE AS-BUILT DWGS ON THE FIELD AND PROVIDE THEM TO OWNER ONCE JOB IS COMPLETE.

13. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH JOB SITE AND WITH ALL CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, ELECTRICAL. HVAC, AND STRUCTURAL DWGS, PRIOR TO BIDDING. ADJUSTMENTS IN THE PLUMBING SYSTEM TO ACCOMMODATE OTHER DISCIPLINES SHOULD BE EXPECTED, AND SHALL NOT REPRESENT ADDITIONAL COSTS TO OWNER. NOTIFY ARCHITECT/ENIGNEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

14. PROVIDE WALL CLEANOUTS AT THE BASE OF EVERY STACK.

15. CONTRACTOR SHALL OBTAIN INSURANCE PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.

16. CONTRACTOR SHALL USE DIMENSIONS IN ARCHITECTURAL DRAWINGS TO ROUGH-IN PLUMBING WORK.

NOTE:

ALL SANITARY DESIGN AND WORK UNDER THIS CONTRACT SHALL COMPLY WITH F.B.C. 2007 EDITION AND ALL APPLICABLE LOCAL ORDINANCES.

PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS

SCALE: N.TS

09/16/10

06/21/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35570
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title

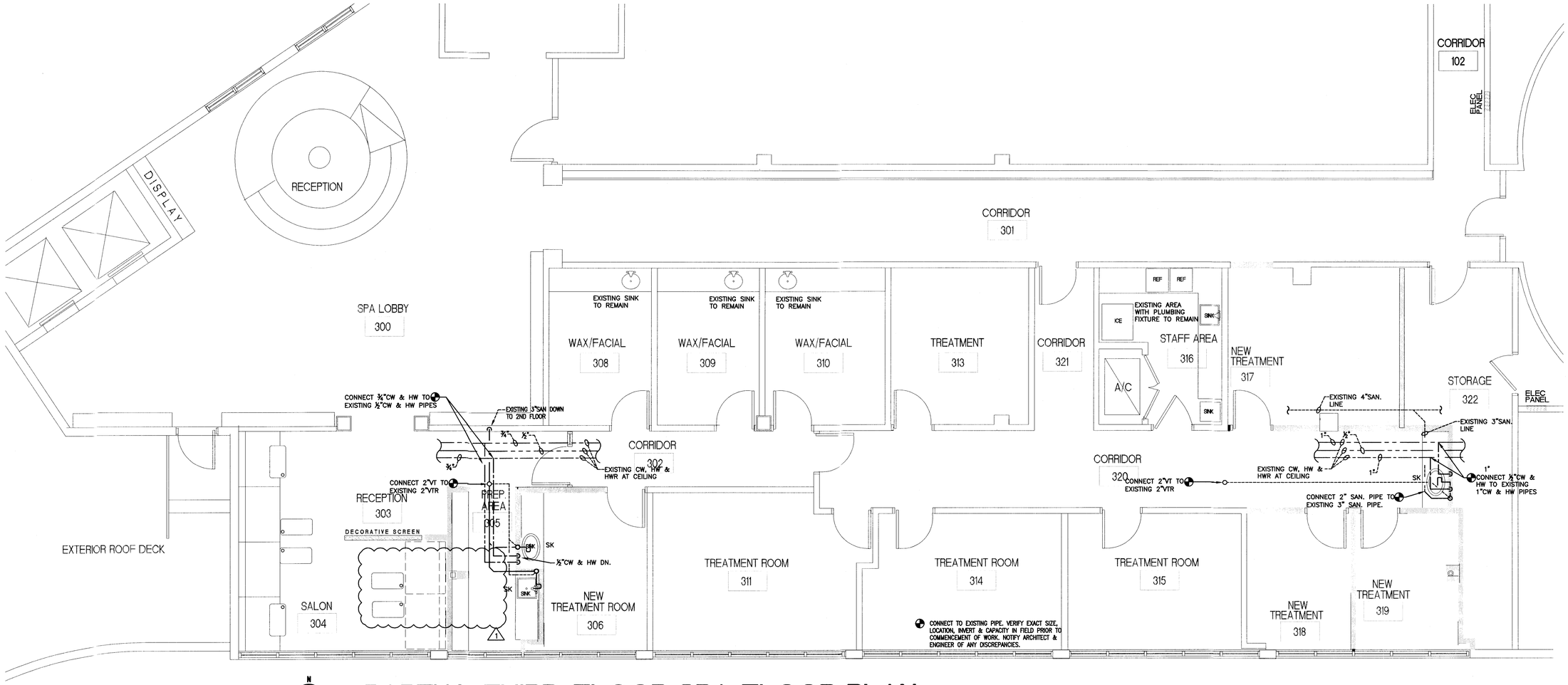
PLUMBING - GENERAL NOTES, LEGEND AND ABB.

Drawn By	Issue Date
PI	8.27.09

Checked By	Scale
AJM	1/4" = 1'-0"

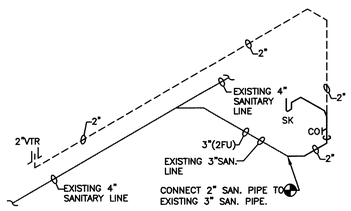
P-0

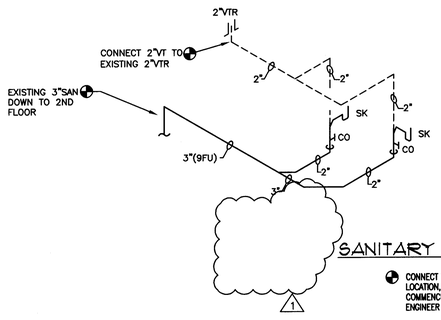
Drawing No.



PARTIAL THIRD FLOOR SPA FLOOR PLAN

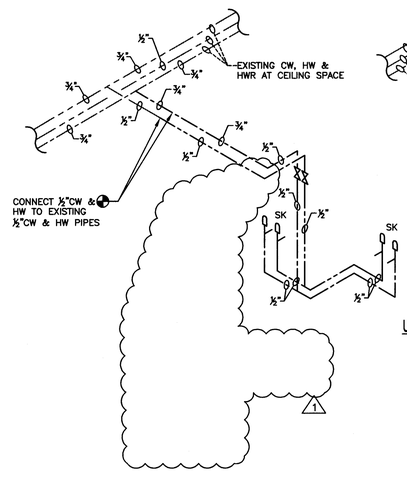
SCALE: 1/4" = 1'-0"

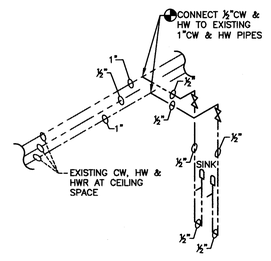




SANITARY RISER DIAGRAM - NTS

CONNECT TO EXISTING PIPE. VERIFY EXACT SIZE, LOCATION, INVERT & CAPACITY IN FIELD PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT & ENGINEER OF ANY DISCREPANCIES.

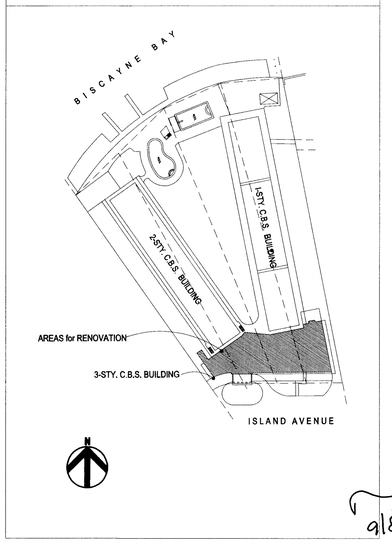




WATER RISER DIAGRAM - NTS

CONNECT TO EXISTING PIPE. VERIFY EXACT SIZE, LOCATION, INVERT & CAPACITY IN FIELD PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT & ENGINEER OF ANY DISCREPANCIES.

KEY LOCATION PLAN



12/4/10

09/10/10

9/8/10

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uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uceng.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision
1	09/07/10	B.D.C

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
A.A.26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

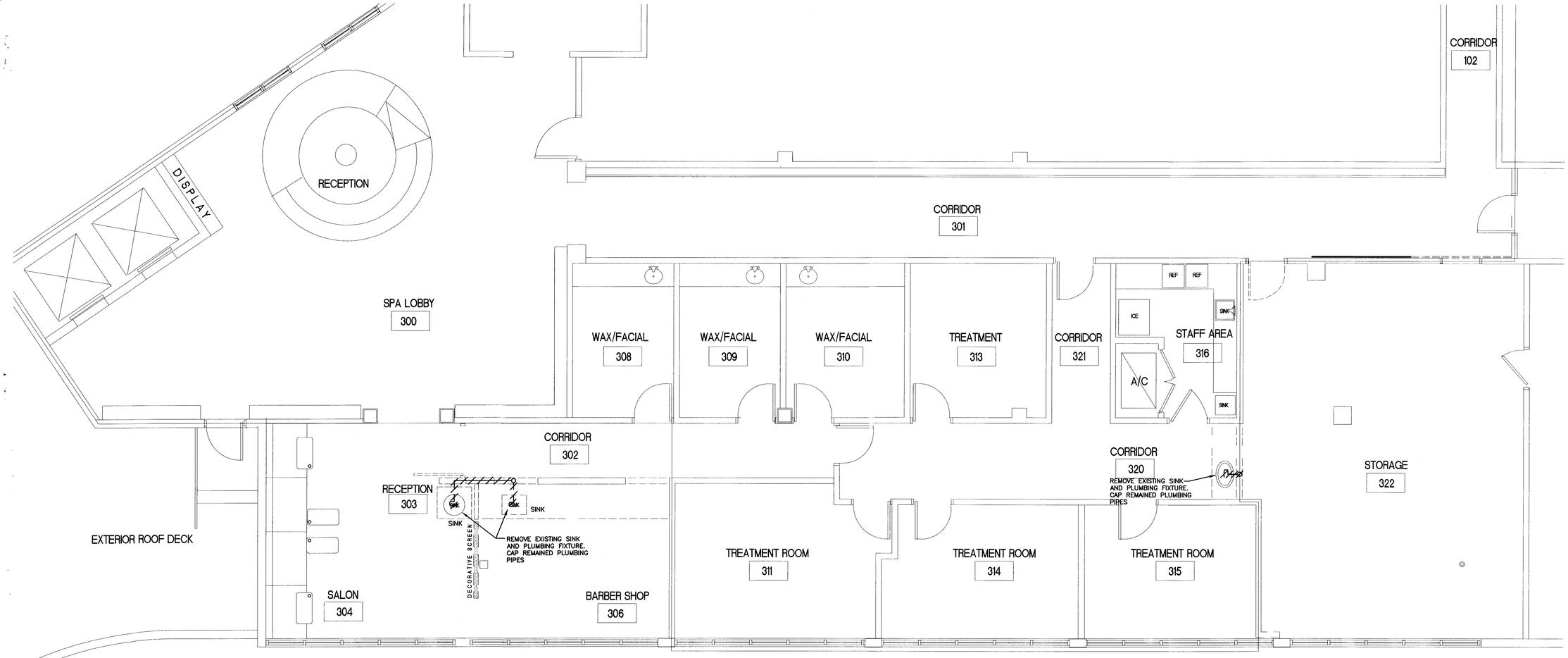
Drawing Title:

PLUMBING FLOOR PLAN

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

P-1

Drawing No.

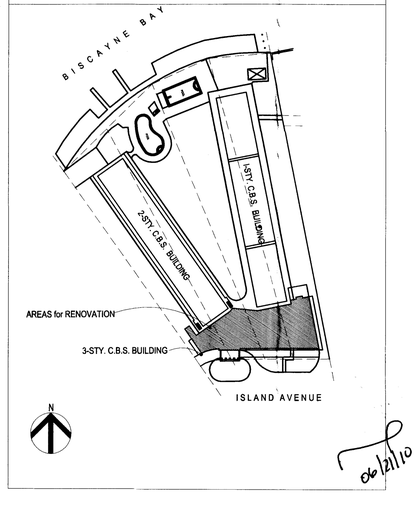


N

1 PARTIAL THIRD FLOOR SPA DEMOLITION PLAN

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

KEY LOCATION PLAN



06/21/10

18-09/16/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
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4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

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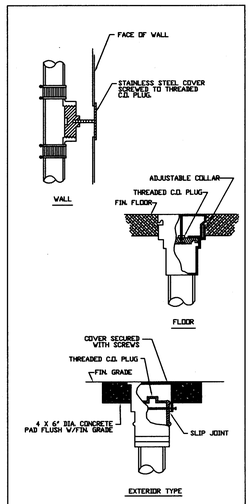
MIAMI BEACH, FL 33139

Drawing Title
PLUMBING 3RD FLOOR DEMOLITION PLAN

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

P-1D

Drawing No



TYPICAL CLEANOUT DETAILS
N.T.S.

PLUMBING FIXTURE CONNECTION SCHEDULE

NO.	DESCRIPTION	WASTE	VENT	WATER		REMARKS
				COLD	HOT	
SK	SINK	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE 1.5 GPM FAUCET AS SELECTED BY OWNER.

NOTES: 1.– All exposed trim, such as P–traps, angle stops, and supplies shall be chrome plated.
2.– All fixtures shall comply with Reference Standards as per FBC 2007 Plumbing 406 through 421.
3.– All Plumbing Fixtures to be specified by Architect. Please see Architectural Drawing for further information.
4.– MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES, FIXTURE FITTINGS AND APPLIANCES AS PER MIAMI DADE ORDINANCE 08–14

Classified UL System

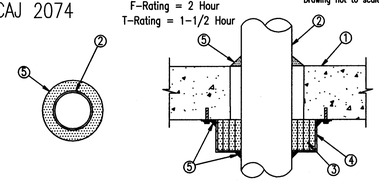
CAJ 2074

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F–Rating = 2 Hour
T–Rating = 1–1/2 Hour



① Pre–Rated Concrete Floors or Block Walls = Min. 4–1/2" thickness
② Plastic Pipe – 2" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A nom. annular space of 1/8" is required within the firestop system.
③ TREMstop WS – Intumescent wrap strips, continuously wrapped around outer circumference of the pipe four times.
④ TREMstop MCR – Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.
⑤ FYRE–SIL – Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe. An additional 1/4" thick bead of caulk to be applied around the the pipe at the interface with the top of the concrete slab.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.

Project:
Location:
Installer:
Signature:

The Tremco products used above have been tested in accordance with the following:
• ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 3/05/97 | Drawing: TR–2074
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

Classified UL System

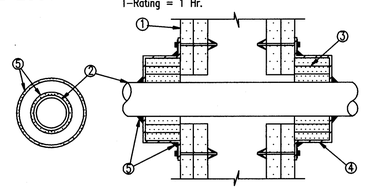
WL 2061

2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Gypsum Walls using TREMstop WS and TREMstop MCR.

3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F–Rating = 2 Hr.
T–Rating = 1 Hr.



① Pre–Rated Gypsum Wallboard/Stud Wall Assembly
② Plastic Pipe – Nom 2" diam. (or smaller) Sch. 40 PVC pipe for use in open or closed piping systems. A max. annular space of 3/16" is required within the system.
③ TREMstop WS – Intumescent wrap strips, continuously wrapped around the outer circumference of the pipe three times on both sides of wall assembly.
④ TREMstop MCR – Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to both sides of the wall assembly.
⑤ FYRE–SIL – Min. 1/4" thickness of sealant applied at the interface of the wall and collar, and the interface of the collar and pipe. Sealant applied on both sides of wall.

Project:
Location:
Installer:
Signature:

The Tremco products used above have been tested in accordance with the following:
• ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 3/13/97 | Drawing: TW–2061
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

Classified UL System

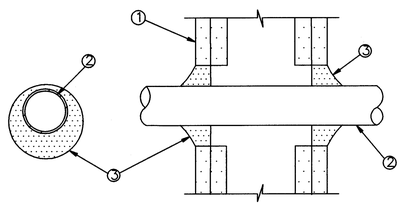
WL 2129

1 or 2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Gypsum Walls using TREMstop IA.

TREMCO
3735 Green Rd.
Beachwood, OH, 44122

Drawing not to scale

F–Rating = 1 and 2 Hr.
T–Rating = 2 Hr.



① Pre–Rated Gypsum Wallboard/Stud Wall Assembly
② Plastic Pipe – Nom 2" diam. (or smaller) CPVC pipe for use in closed piping systems. The annular space shall be min. 1/4" to max. 1–3/8" within the firestop system.
③ TREMstop IA – Min. 1/2" thickness of sealant applied within opening. Additional sealant to be installed such that a min. 1/4" crown is formed around the penetrating item.

PLUMBING SCHEDULE AND DETAILS

SCALE: N.TS

PROJECT NO: 0905-049

uciengineering
From Vision to Reality

4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title
PLUMBING SCHEDULE AND DETAILS

Drawn By	Issue Date
PI	8.27.09
Checked By	Scale
AJM	1/4" = 1'-0"

P-2
Drawing No.

ABBREVIATIONS & SYMBOLS

LVG	LEAVING
LRA	LOCKED ROTOR AMPS
M	MOTOR
MAX	MAXIMUM
MECH.	MECHANICAL
MFRS.	MANUFACTURERS
MH.	MANHOLE, METAL HALIDE, MAN-HOUR
MISC.	MISCELLANEOUS
MIN.	MINIMUM, MINUTE
MOD	MOTORIZED DAMPER
N.	NORTH
NA	NOT AVAILABLE, NOT APPLICABLE
N.E.	NORTHEAST
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.I.C.	NOT IN CONTRACT
NO., #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
N.W.	NORTHWEST
O.D.	OUTSIDE DIAMETER OR DIMENSION
OPNG.	OPENING
OSHA	OCCUPATIONAL SAFETY & HEALTH ACT
PCHWP	PRIMARY CHILLED WATER PUMP
P.E.	PROFESSIONAL ENGINEER
PH.	PHASE
PNL.	PANEL
P.S.I.	POUNDS PER SQUARE INCH
PSIG.	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORINE
PWR.	POWER
QTY.	QUANTITY
R.	RISER
R/A	RETURN AIR
RAD.	RADIUS
RECEP.	RECEPTACLE
REF.	REFERENCE
REQ'D	REQUIRED
RM	ROOM
RND.	ROUND
RTU	ROOF TOP UNIT
SAN	SANITARY
SCH, SCHED.	SCHEDULE
SCHWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DETECTOR
S/D	SMOKE DAMPER
SECT.	SECTION
FBC	FLORIDA BUILDING CODE
SPECS.	SPECIFICATIONS
SQ.	SQUARE
STD.	STANDARD
STRL.	STRUCTURAL
SURF.	SURFACE
S.W.	SOUTHWEST
SYM.	SYMMETRICAL
T	TON, THERMOSTAT
TEMP.	TEMPERATURE
T.O.B.	TOP OF BEAM
T.O.D.	TOP OF DUCT
T.O.P.	TOP OF PIPE
TYP.	TYPICAL
UC	UNDERCUT
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT, SHUT-OFF GATE VALVE, VOLUME, VALVE
VERT.	VERTICAL
VOL.	VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W.	WEST, WIRE, WATT, WIDE
W/	WITH
WDH	HOT WATER DUCT HEATER
W/O	WITHOUT
WT.	WEIGHT
XFMR	TRANSFORMER
Y	WYE
YR	YEAR
WP	WATER PROOF
VP	VAPOR PROOF
GFI	GROUND FAULT INTERRUPT
PNL	PANEL
AFF	ABOVE FINISH FLOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTOR

C	CONDUIT
EC	EMPTY CONDUIT
XTRM	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
AC,A/C	ALTERNATING CURRENT, AIR CONDITIONING
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
ARCH	ARCHITECT OR ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS INC.
A.S.M.E.	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AUTO.	AUTOMATIC
AVG.	AVERAGE
BHP	BOILER HORSEPOWER, BRAKE HORSEPOWER
BLDG.	BUILDING
BM	BEAM
B.O.B.	BOTTOM OF BEAM
B.O.C.	BOTTOM OF CURB
BOD.	BOTTOM OF DUCT
BOP.	BOTTOM OF PIPE
BOT.	BOTTOM
CENTRIG,CENT.	CENTRIFUGAL
CHWP	CHILLED WATER PUMP
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
COMPR.	COMPRESSOR
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CU	COPPER, CONDENSING UNIT
CT	COOLING TOWER
CWP	CONDENSER WATER PUMP
DEPT.	DEPARTMENT
DIA., DIAM.	DIAMETER
DIM.	DIMENSION
DIR.	DIRECTION, DIRECT
DISTRIB.	DISTRIBUTION
DN	DOWN
DWG.	DRAWING
E	EAST
EA.	EACH
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EL., ELEV.	ELEVATION
ELEC.	ELECTRICAL
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENGR.	ENGINEER
ENT.	ENTRANCE, ENTER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXCAV.	EXCAVATION
EXIST.	EXISTING
EXP.	EXPANSION, EXPOSURE
EXPO.	EXPOSED
EXT.	EXTERIOR
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF.	FINISH FLOOR
FG.	FINISH GRADE
FIN.	FINISH
FIXT.	FIXTURE
FL.,FLR.	FLOOR
FLA	FULL LOAD AMPS, FLORIDA
FT	FEET
FURN.	FURNISH
GALV.	GALVANIZED
H,HT.	HEIGHT
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ.	HERTZ (CYCLES)
I.D.	INSIDE DIAMETER
IN.,	INCH(ES)
INCL.	INCLUDE(ING)
INT.	INTERIOR
kHz	KILOHERTZ
KW	KILOWATTS
KWH	KILOWATT HOUR
L	LENGHT

FIRE PROTECTION LEGEND

- FIRE SPRINKLER CONCEALED HEAD.
- FIRE SPRINKLER UPRIGHT HEAD
- ELBOW DOWN
- TEE DOWN
- TEE UP
- O.S. & Y. OR GATE VALVE
- CHECK VALVE
- FLOW SWITCH
- F — FIRE LINE
- SIDEWALL SPRINKLER
- SIDEWALL SPRINKLER
- EXISTING FIRE LINE

SPECIFIC NOTES

1. THE SPACE IS FULLY SPRINKLERED THE DRAWING SHOWN THE LOCATION OF THE NEW SPRINKLER HEADS.
2. EXISTING FIRE SPRINKLER SYSTEM SHALL BE REVISED AND ADJUSTED TO PROVIDE A FULLY AUTOMATIC WET PIPE SPRINKLER SYSTEM, PROVIDING 100% COVERAGE OF ALL AREAS. SYSTEM SHALL BE DESIGNED AND INSTALLED AS PER LATEST NFPA 13 MANUAL. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.
3. THE CONTRACTOR SHALL VERIFY EXISTING PIPES LOCATION PRIOR TO COMMENCMENT OF THIS WORK.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN APPROVAL OF SPRINKLER SHOP DRAWINGS FROM BUILDING'S INSURANCE CARRIER, THE FIRE MARSHALL, AND ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUFFICIENT WATER FLOW AND PRESSURE AVAILABLE TO THE SYSTEM.
5. DESIGN CRITERIA SHALL BE BASED ON N.F.P.A. 13, LIGHT HAZARD .10 GPM PER SQ. FT., MINIMUM 1500 SQ. FT. REMOTE AREA, 100 GPM HOSE ALLOWANCE.
6. MAKE ALL OFFSETS REQUIRED AS PER JOB CONDITIONS.
7. CONTRACTOR SHALL COORDINATE WITH STRUCTURE AND OTHER TRADES BEFORE INSTALLING SPRINKLER SYSTEM.
8. CONTRACTOR SHALL PROVIDE AND TURN OVER TO THE OWNER AT LEAST (6) SPARE SPRINKLERS OF SAME TYPE AND TEMPERATURE RATINGS BEING INSTALLED.
9. INSTALL PIPING TIGHT TO STRUCTURE WHEREVER POSSIBLE.
10. SPRINKLER SYSTEM SHALL BE INSTALLED BY A STATE CERTIFIED FIRE SPRINKLER CONTRACTOR.
11. PIPING ABOVE GROUND SHALL BE LIGHTWALL THREADABLE STEEL PIPE OR SCHEDULE 40 CPVC FOR 2" AND SMALLER. SCHEDULE 40 BLACK STEEL PIPE, ROLL AND GROOVED SCHEDULE 10 STEEL PIPE FOR PIPING 2½" AND LARGER ASTM A 53. ALLIED XL AND ALLIED SCH. 10 OR APPROVED EQUAL.
12. FITTINGS FOR PIPING 2" AND SMALLER SHALL BE MALLEABLE IRON, 150 PSI BANDED, THREADED, BLACK. ANSI B 16.3. OR SCH 80 CPVC THREADED ASTM F 437, SCH 40/80 CPVC SOCKET TYPE ASTM F 438-439. FITTINGS FOR PIPING 2½" AND LARGER SHALL BE MECHANICAL COUPLING SYSTEM. ALL FITTINGS SHALL BE FROM SAME MANUFACTURER.
13. ALL SPRIKLER HEADS SHALL BE CENTERED AND PRESENT A NEAT AND BALANCED CEILING.
14. SPRINKLER HEADS SHALL BE A MAXIMUM OF 18" FROM ANY FLOOR OBSTRUCTION, SHELVES, OR CABINETS.
15. SPRINKLERS NEXT TO COLUMNS SHALL BE 3 TIMES WIDTH OF COLUMN AWAY.
16. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS.

GENERAL NOTES:

1. ALL PIPING SHALL BE SUPPORTED BY MEANS OF HANGERS TESTED AND LISTED AS APPROVED BY U.L. AND/OR FM. SIZING, SPACING, AND INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARD No. 13 "SPRINKLER SYSTEMS", EXCEPT AS OTHERWISE SHOWN ON DRAWINGS OR SPECIFIED HEREIN.
2. ALL FIRE PROTECTION HEADS SHALL BE INSTALLED IN A SYMMETRICAL LAYOUT WITHIN EACH ROOM, AFFORDING VISUAL UNIFORMITY.
4. FIRE PROTECTION ROUTING AS SHOWN IS DIAGRAMMATIC. NOT EVERY ELBOW, BEND OR OFFSET IS SHOWN, NOT EVERY PIPE SIZE IS SHOWN. CONTRACTOR SHALL INCLUDE IN HIS/HER BID ANY AND ALL SUCH PIPING ELBOWS, BENDS, OFFSETS, VALVES, EXPANSION FITTINGS AND APPURTENANCES AS REQUIRED TO ROUTE PIPING AND PROVIDE PROPER COVERAGE TO ALL ROOFED AREAS, CLEARING STRUCTURAL OR OTHER OBSTRUCTIONS WHILE MAINTAINING SCHEDULED CEILING HEIGHTS.
5. PROVIDE AN EXPANSION FITTING ON ALL PIPING CROSSING AN EXPANSION JOINT. ALSO PROVIDE A 12"X12"X12" EXPANSION LOOP FOR EVERY 300 LF IN THE GROUND FLOOR RISER FEEDER LOOP.
6. SPARE SPRINKLER HEADS AND WRENCHES SHALL BE PROVIDED IN ACCORDANCE WITH N.F.P.A. 13.
7. SIZES AS INDICATED ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL SIZES MAY VARY. THE ABOVE ITEMS ARE ABOVE AND BEYOND WHAT WILL BE REQUIRED TO EFFECT THE WORK AS INDICATED ON THE DRAWINGS OR AS NECESSITATED BY COORDINATION EFFORTS. THE PRICE QUOTED SHALL INCLUDE COMPLETE INSTALLATION IN THE EVENT THESE MATERIALS REQUIRE THEIR IMPLEMENTATION DUE TO OMISSION FROM THE DRAWINGS, OR LACK OF CLARITY ON THE DRAWINGS.
8. THE FIRE PROTECTION WORK WILL INCLUDE THE COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEM, INCLUDING EVERY HEAD DEPICTED ON THE DRAWINGS.
9. FURNISH ALL MATERIAL, LABOR AND SERVICE FOR THE INSTALLATION, TESTING, ADJUSTING AND PLACING INTO SERVICE OF THE FIRE PROTECTION EQUIPMENT AS COMPLETE AND HYDRAULIC COMPUTATIONS. OPERATING UNITS AS HEREIN SPECIFIED OR AS SHOWN ON THE PLANS OR IMPLIED THEREBY, INCLUDING MISCELLANEOUS SERVICE VALVES, PRESSURE GAUGES AND NECESSARY APPURTENANCES, WHETHER SHOWN OR NOT. ALL WORK MUST BE DONE IN ACCORDANCE WITH THE APPLICABLE LOCAL BUILDING DEPARTMENT, NFPA RECOMMENDATIONS AND COMPLYING WITH THE RECOMMENDATIONS OF INDUSTRIAL RISK INSURERS.
10. FITTINGS SHALL BE ABLE TO WITHSTAND THE WORKING PRESSURES INVOLVED BUT NOT LESS THAN 175 PSI COLD WATER. FITTINGS SHALL COMPLY TO ANSI STANDARDS.
11. ALL VALVES SHALL BE U.L. LISTED AS REQUIRED.
12. PRESSURE TEST AND FLUSH THE SYSTEM IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS.
13. PIPE ENDS SHALL BE REAMED TO REMOVE ALL BURRS, AND PIPE SECTIONS SHALL BE CLEANED INSIDE TO REMOVE ALL CHIPS AND FOREIGN MATERIAL PRIOR TO MAKING UP JOINTS. APPROVED JOINT COMPOUND SHALL BE APPLIED TO THE THREADS OF THE PIPE AND NOT IN THE FITTING WHEN MAKING UP JOINTS. PIPE SHALL NOT EXTEND INTO THE WATERWAY OF THE FITTING.
14. DRAWINGS SHOW THE INTENT AND GENERAL ARRANGEMENT OF THE SYSTEM.
15. SHOP DRAWINGS SHALL BE SUBMITTED ON ALL FIRE PROTECTION WORK, ALL WORK SHALL COMPLY WITH LOCAL CODES AND N.F.P.A. STANDARDS 13, 14, 20, AND 24 AND THE SYSTEM MUST BE APPROVED BY F.M.
16. ALL VALVES CONTROLLING WATER SUPPLIES FOR SPRINKLER SYSTEM OR PORTIONS THEREOF SHALL NOT BE LOCATED MORE THAN 7'-0" ABOVE THE FLOOR.
17. WATER FLOW DEVICES SHALL ACTIVATE A LOCAL ALARM ON THE FLOOR WHERE FLOW IS DETECTED.
18. WATER FLOW SIGNALING DEVICES SHALL ANNUNCIATE AT THE CENTRAL CONTROL STATION.
19. HOSE CONNECTIONS MUST BE SUPPLIED BY A 2 1/2" LINE CONNECTED TO RISER. THESE CONNECTIONS CANNOT BE SUPPLIED BY THE SPRINKLER SYSTEM.
20. ALL FIRE PROTECTION EQUIPMENT SHALL BE OF SAME MANUFACTURE WITH PROPER SYSTEM U.L. RATINGS A A PACKAGE SYSTEM.
21. SEPARATE PERMIT REQUIRED FOR FIRE PROTECTION CONTRACTOR.
22. ALL FITTINGS SHALL BE FROM SAME MANUFACTURER.
23. ALL PIPING AND FITTINGS AT EXTERIOR AND IN ATTIC SPACES SHALL BE FACTORY HOT DIPPED GALVANIZED FOR CORROSION PROTECTION
24. ALL RATED WALLS AND FLOORS TO BE PROPERLY SLEEVED AND SEALED WITH APPROVED FIRE/SMOKE STOP MATERIAL.
25. PROVIDE APPROVED FLOW AND TAMPER SWITCHES AT CONTROL VALVE LOCATIONS. ALL VALVES CONTROLLING WATER SUPPLY SHALL BE PROVIDED WITH A SUPERVISORY TAMPER SWITCH. COORDINATE LOCATION OF ALL FLOW AND TAMPER SWITCHES WITH ELECTRICAL CONTRACTOR.

FIRE PROTECTION GENERAL NOTES, LEGEND AND ABBREVIATIONS

SCALE: NTS

06/21/10

PROJECT NO: 0905-049

uciengineering
From Vision to Reality

4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengi.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

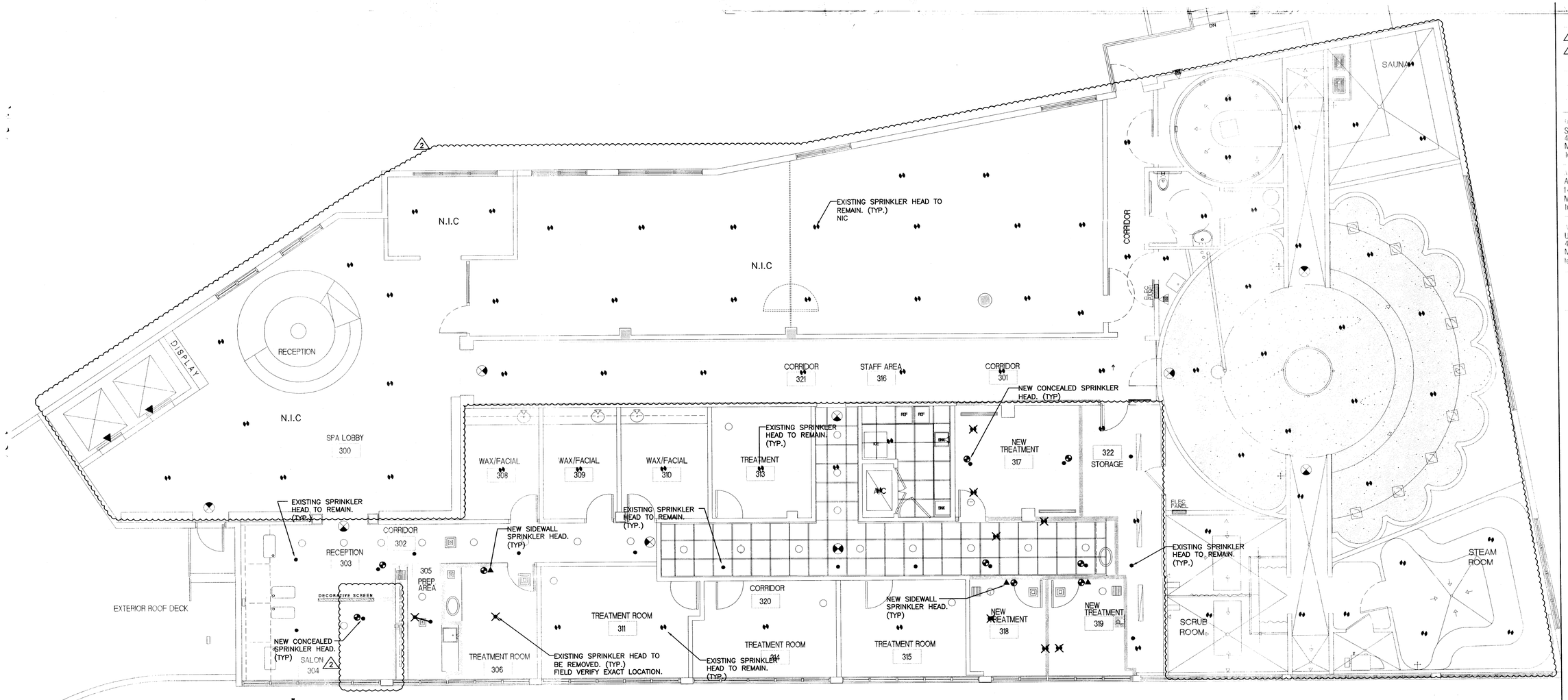
Drawing Title

FIRE PROTECTION GRAL NOTES, LEGEND, ABB.

Drawn By	Issue Date
PI	8.27.09
Checked By	**Scale**
AJM	1/4" = 1'-0"

FP-0

Drawing No.



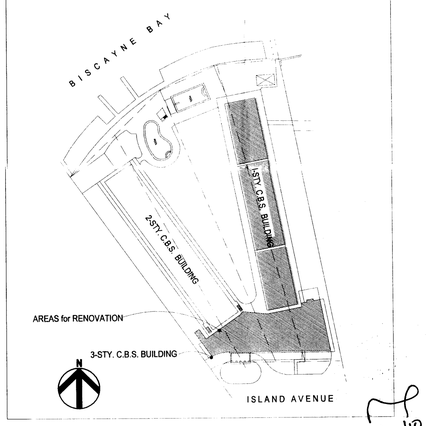
PARTIAL THIRD FLOOR SPA REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

FIRE PROTECTION LEGEND

SYMBOL	ABBREV.	DESCRIPTION
●		NEW CONCEALED PENDENT SPRINKLER HEAD
◀		NEW SIDEWALL SPRINKLER HEAD
✕		EXISTING PENDENT SPRINKLER HEAD TO BE REMOVED
●		EXISTING PENDENT SPRINKLER HEAD TO REMAIN
———		NEW SPRINKLER PIPING
- - - - - -		EXISTING SPRINKLER PIPING
⊕		CONNECT TO EXISTING SPRINKLER PIPE. VERIFY EXACT LOCATION AND CAPACITY IN FIELD PRIOR TO COMMENCEMENT OF WORK.

KEY LOCATION PLAN



12/14/10

10/27/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uc@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No.	Date	Revision
1	09/07/10	B.D.C
2	09/26/10	B.D.C

Owner
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project
INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

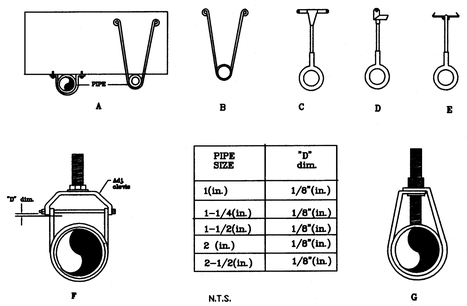
Drawing Title
FIRE PROTECTION REFLECTED CEILING PLAN

Drawn By: PI
Issue Date: 8.27.09
Checked By: AJM
Scale: 1/4" = 1'-0"

FP-1

Drawing No.

SPRINKLER HANGER DETAILS

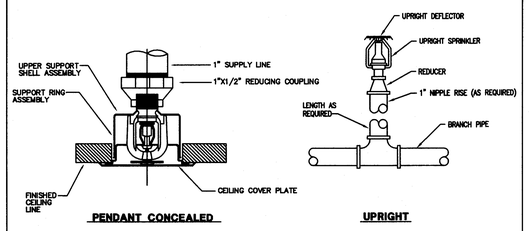


PIPE SIZE	"D" dim.
1(in.)	1/8"(in.)
1-1/4(in.)	1/8"(in.)
1-1/2(in.)	1/8"(in.)
2 (in.)	1/8"(in.)
2-1/2(in.)	1/8"(in.)

N.T.S.

A U-type hangers for branch
B Wraparound U-hook
C Adjustable clip for branch lines
D Side beam adjustable hanger.
E Adjustable coach screw clip for branch lines
F Clevis hanger.
G Adjustable swivel loop hanger.

SPRINKLER HEAD DETAIL

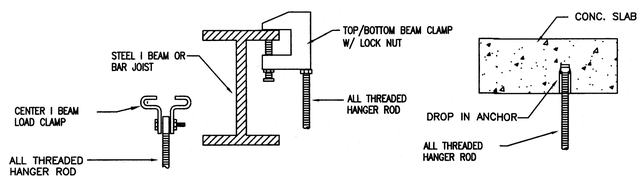


FIRE SPRINKLER HEAD SCHEDULE

SYM.	TYPE	ORIFICE SIZE	TEMP RATING	K FACTOR	MANUFACTURER & MODEL	MAXIMUM SPACING
●	CONCEALED PENDENT (NOTE 1)	1/2"	155°F	5.6	TYCO SERIES RFII, QUICK RESPONSE, STANDARD COVERAGE MODEL TY3531	15'X15'
○	UPRIGHT, GLASS BULB (NOTE 2)	1/2"	155° F	5.6	SERIE TY-FRB STANDARD COVERAGE QUICK RESPONSE, UPRIGHT MODEL TY3131	15'X15'
◀	HORIZONTAL SIDEWALL (NOTE 3)	1/2"	155° F	5.6	SERIES TY-FRB, STANDARD COVERAGE QUICK RESPONSE, TY-3331	16'X16'

NOTES:
1. FINISHED AREAS WITH HUNG CEILING.
2. UNFINISHED AREAS WITHOUT CEILING.
3. UNFINISHED AREAS WITHOUT CEILING OR JUST BENEATH A SMOOTH CEILING

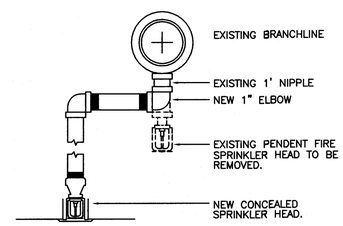
FASTENERS



ALL FASTENERS SHALL BE LISTED FOR THEIR INTENDED SERVICE

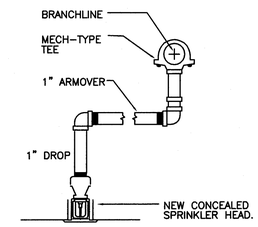
POWDER DRIVEN STUDS MAY BE USED IN LIEU OF LISTED CONCRETE INSERTS WHERE APPROVED BY STRUCTURAL ENGINEER

RELOCATION DETAIL



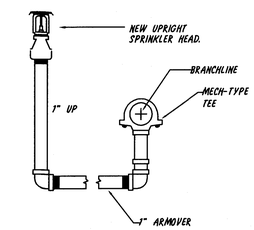
*ARMOVER GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

ARMOVER DETAIL



*ARMOVER GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

ARMOVER DETAIL



*ARMOVER GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

Classified UL System

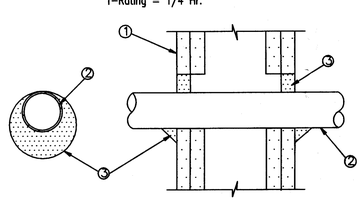
WL 1158

1 or 2 Hour Fire Rated Through Penetration Firestop for Single Metallic Pipe through Gypsum Walls using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1 and 2 Hr.
T-Rating = 1/4 Hr.



① Pre-Rated Gypsum Wallboard/Stud Wall Assembly
② Metallic Pipe – A) Steel Pipe – 12" diam. (or smaller) Sch. 10 (or heavier) steel pipe.
B) Iron Pipe – 12" diam. (or smaller) cast or ductile iron pipe.
C) Copper Tubing – 4" diam. (or smaller) Type L (or heavier) copper tubing.
D) Copper Pipe – 4" diam. (or smaller) Regular (or heavier) copper pipe.
The annular space shall be min. 0" to max. 1" within the firestop system.
③ TREMstop IA – Min. 1/2" thickness of sealant applied within opening. Min. 1/4" cant bead of sealant to be applied at point contact.

Classified UL System

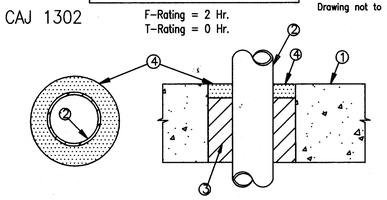
CAJ 1302

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Walls using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness.
② Metallic Pipe: A) Steel Pipe – 8" diam. (or smaller) Sch. 10 (or heavier) steel pipe.
B) Iron Pipe – 8" diam. (or smaller) cast or ductile iron pipe.
C) Conduit – 4" diam. (or smaller) EMT or steel conduit.
D) Copper Tubing – 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe – 4" diam. (or smaller) Regular (or heavier) copper pipe.
③ Packing Material– See table below for mineral wool insulation (min. 4.0 pcf) requirements.
④ TREMstop IA– See table below for minimum thickness of sealant. Apply sealant flush with top of floor surface or with both sides of the wall assembly.

Annular Space Range, in.	Min. Packing Material Thickness, in.	Min. Thickness of Sealant, in.	F-Rating Hr.
1/2 to 1-3/8	0	1	2
1/2 to 1-3/8	4	1/2	2

Classified UL System

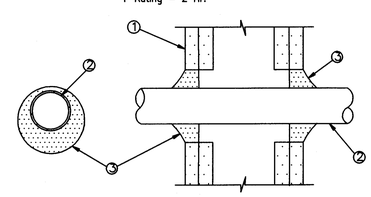
WL 2129

1 or 2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Gypsum Walls using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1 and 2 Hr.
T-Rating = 2 Hr.



① Pre-Rated Gypsum Wallboard/Stud Wall Assembly
② Plastic Pipe – Nom 2" diam. (or smaller) CPVC pipe for use in closed piping systems.
The annular space shall be min. 1/4" to max. 1-3/8" within the firestop system.
③ TREMstop IA – Min. 1/2" thickness of sealant applied within opening. Additional sealant to be installed such that a min. 1/4" crown is formed around the penetrating item.

06/21/10

PROJECT NO: 0905-049
uciengineering
From Vision to Reality
4247 SW 71st AVENUE
Miami, Florida 33155
Tel: (305) 661-0800
Fax: (305) 661-0811
Email: uci@uciengineering.com
R.J. Miranda P.E. No. 35579
David A. Belsky P.E. No. 37234
EB0004041
Professional Electrical and Mechanical Engineers

No	Date	Revision

Owner:
STANDARD / MIAMI
40 ISLAND WAY
MIAMI BEACH, FL 33139
tele: 305-673-1717

Architect:
ARTHUR J. MARCUS ARCHITECT P.A.
1450 LINCOLN ROAD
MIAMI BEACH, FL 33139
tele: 305-674-8945

MEP Engineering:
UCI ENGINEERING INC.
4247 S.W. 71st AVENUE
MIAMI, FL 33155
tele: 305-661-0800

Seal

ARTHUR J. MARCUS ARCHITECT, P.A.
1450 LINCOLN ROAD MIAMI BEACH, FL 33139 305.674.8945
AA26000962

Project:

INTERIOR RENOVATIONS FOR THE
STANDARD MIAMI HOTEL
FERRADO LIDO LTD
40 ISLAND AVENUE
MIAMI BEACH, FL 33139

Drawing Title

FIRE PROTECTION DETAILS

Drawn By: PI
Issue Date: 8.27.09
Checked By: AJM
Scale: 1/4" = 1'-0"

FP-2

Drawing No.

B1004171

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY

THE FOLLOWING:

BUILDING: 12/09/10 JB

ZONING: SW 12/14/10

DRB/HPB:

CONCURRENCY:

PLUMBING: 09/16/10 12/14/10

ELECTRICAL: SW 12/14/10

MECHANICAL: 11/12/10

FIRE PREVENTION: 11/12/10

ENGINEERING: 12/20/10

PUBLIC WORKS: 12.20.10

STRUCTURAL: 8/11/10 12/14/10

ELEVATOR:

Derm Number: 2010-0715-1523-5660
Contact Name: SANDRA PORTILLO
Contact Phone: (40) ISL-AND
Folio: 02-3233-004-0090
Project Name: STANDARD MIAMI HOTEL
Date Received: 07/15/2010
Reviewer Name:

B1004171

40 Island Ave

Office Copy

[redacted] OFFICE
[redacted] COPY COPY

CMB

MIAMI BEACH

RECEIVED
JUL 02 2012
DERM Coastal Resources Section
Natural Resources Regulation & Restoration
Division (NRRRD)

Building Department
1700 Convention Center Drive, 2nd Flr
Miami Beach, Fl 33139

CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: 7/6/12
ZONING: 6/27/12
DRB/HPB:
CONCURRENCY:
PLUMBING: 07/06/12
ELECTRICAL: 6/27/12 MA
MECHANICAL:
FIRE PREVENTION:
ENGINEERING: 07/06/12
PUBLIC WORKS:
STRUCTURAL: 6/27/12
Master Permit (IF APPLICABLE): 6/27/12
ELEVATOR:

Master B1204324

NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE

I have been retained by: Ferrodo Cob LLC to perform special inspector services under the Florida Building Code at the 40 Island Ave project on the below listed structures as of _____ (date). I am a professional engineer licensed in the State of Florida.

Process Number: B1204326

- (●) Special Inspector for Pilings, FBC 1822.1.20
- ( ) Special Inspector for Lightweight Insulating Concrete, FBC 1917.2
- ( ) Special Inspector for Soil Compaction, FBC 1820.3.1
- ( ) Special Inspector for Precast Units and Attachments, FBC 1927.12.2 (By P.E. or R.A..)
- ( ) Special Inspector for Reinforced Masonry, FBC 2122.4 (By P.E or R.A)
- ( ) Special Inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A..)
- ( ) Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R. A.)
- ( ) Special Inspector for _____

NOTE: Only the marked boxes apply.

The following individual's employed by this firm or me are authorized representatives to perform inspections

1. John H. Omslaer
2. Anthony R. Agosino
3. _____
4. _____

* Special Inspectors utilizing authorized representatives shall insure the authorized representative is qualified by education or licensure to perform the duties assigned by the Special Inspector. The qualifications shall include: licensure as a professional engineer or architect; graduation from an engineering education program in civil or structural engineering; graduation from an architectural education program; successful completion of the NCEES Fundamentals Examination; or registration as a building inspector or general contractor.

I will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, understand that all mandatory inspections, as required by the Florida Building Code, shall be requested by the permit holder and approved by the Building Department inspectors. Inspections performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. A Special Inspection Log for each building must be displayed in a convenient location on the site for inspection by the Building Department inspectors. Further, upon completion of the work under each building permit, I will submit to the Building Department at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Signed and Sealed
52733
License Number
Date: 6/25/12

Architect/Engineer Signature:
Architect/Engineer Name Printed: Dynamic Engineering Solutions, Inc.
John H. Omslaer, PE 52733, EB26829
Address: 950 N. Federal Hwy. Suite212
Phone Number: Pompano Beach, FL 33062
Owner/Agent Signature:
Owner/Agent Name Printed: Jose Tena
Building Department Accepted By: Av. 6/27/12

CMB

MAXIMUM STRESS IN TIMBER DECK

Residence :	Ferrado Lido LLC
Location :	40 Island Ave
Municipality:	Miami Beach, FL
Drawing Ref:	
Date:	6/18/12

Specific Data

LL - Live Load	100	psf
DL - Dead Load	8	psf

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DERM Coastal Resources Section
Natural Resources Regulation & Restoration
Division (NRRRD)

Substringer Calculations

b Substringer Width (in)	3.5	in	
sd - Substringer Depth (in)	11.25	in	
ZS - Substringer Section Modulus (in^3)	73.83	in^3	
swl - Width of Load / Substringer (ft)	6.00	ft	
a - Max Length of Substringer (ft)	10.50	ft	
Fb - Bending	1200	psi, T 4B, NDS	
Cf - Size Fact. - (12/sd)^(1/9)	1.007197		
Cfu - Flat Use Fact.	1		All Adjustment Factors from
Cr - Repetetive Fact.(joist only)	1		Table 4B of NDS (pg 31, 1997 ed.)
Cm - Wet Service Factor	0.85	CCA Treated	
Ch - Shear Factor	1		
Fb' - Fb x Cf x Cfu x Cr x Cr x Cm x Ch	**1027.341**	**psi**	
Cd - Duration Factor	1.25	7 days per appendix B	
W = ((LL + DL) x jwl) / (Cd) =	518.4	lbf/ft	
span = a =	10.50	ft	
M = ((span)^2 x W) / 8 =	7144.20	ft.lbf	
Fb = (M x 12) / (ZS) =	1161.19	psi	
1161.19 < 1027.34	**Fb < SA,**	**O.K.**	

John H. Omslaer, P.E.
FL License #52733,EB#26829
Dynamic Engineering Solutions, Inc.
950 N Federal Hwy., Suite 212
Pompano Beach, FL 33062

6/25/12

CMB

MAXIMUM STRESS IN TIMBER DECK

Residence : Ferrado Lido LLC
Location : 40 Island Ave
Municipality: Miami Beach, FL
Drawing Ref: 0.00
Date: 6/18/12

Specific Data

LL - Live Load	100 psf
DL - Dead Load	8 psf

Check Stringers For Deflection

L = span = cl - d - b =	0.00	in
W = ((LL + DL) x jwl) / (Cd) =	0.00	lbf/in
E = Mod of Elasticity	1760000	lbf/in^2
jw Joist Width (in)	0.00	in
jd - Joist Depth (in)	0.00	in
I = (jw x jd^3) / 12	0	in^4
delta = (5 x W x L^4) / (384 x E x I)	#DIV/0!	in
L / 360 =	0	in

delta <<< L/360, OK in deflection

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DERM Coastal Resources Section
Natural Resources Regulation & Restoration Division (NRRRD)

Fastener Specifications - Double Shear

Fastener Type at Piling	3/4 in Thru Bolts	
n - Number of Fasteners at Piling	2	
Cap - Capacity	1910	lbf, per t 8.3A
A - Supported Area	34.13	ft^2
Cm - Wet Service in Shear	0.97	
Load = ((LL + DL) x A) / (Cm x n)	1899.742	lbf
1910 lbf >	**1899.742**	**lbf, O.K**

Double Shear@ Pile			
Thru Bolts - Z perpendicular - T8.3A			
	0.625	**0.75**	1
1.5	1130	1330	1530
2.5	1345	1620	2155
3.5	1560	1910	2780

John H. Omslaer, P.E.
FL License #52733,EB#26829
Dynamic Engineering Solutions, Inc.
950 N Federal Hwy., Suite 212
Pompano Beach, FL 33062

6/25/12

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DERM Coastal Resources Section
Natural Resources Regulation & Restoration
Division (NRRRD)

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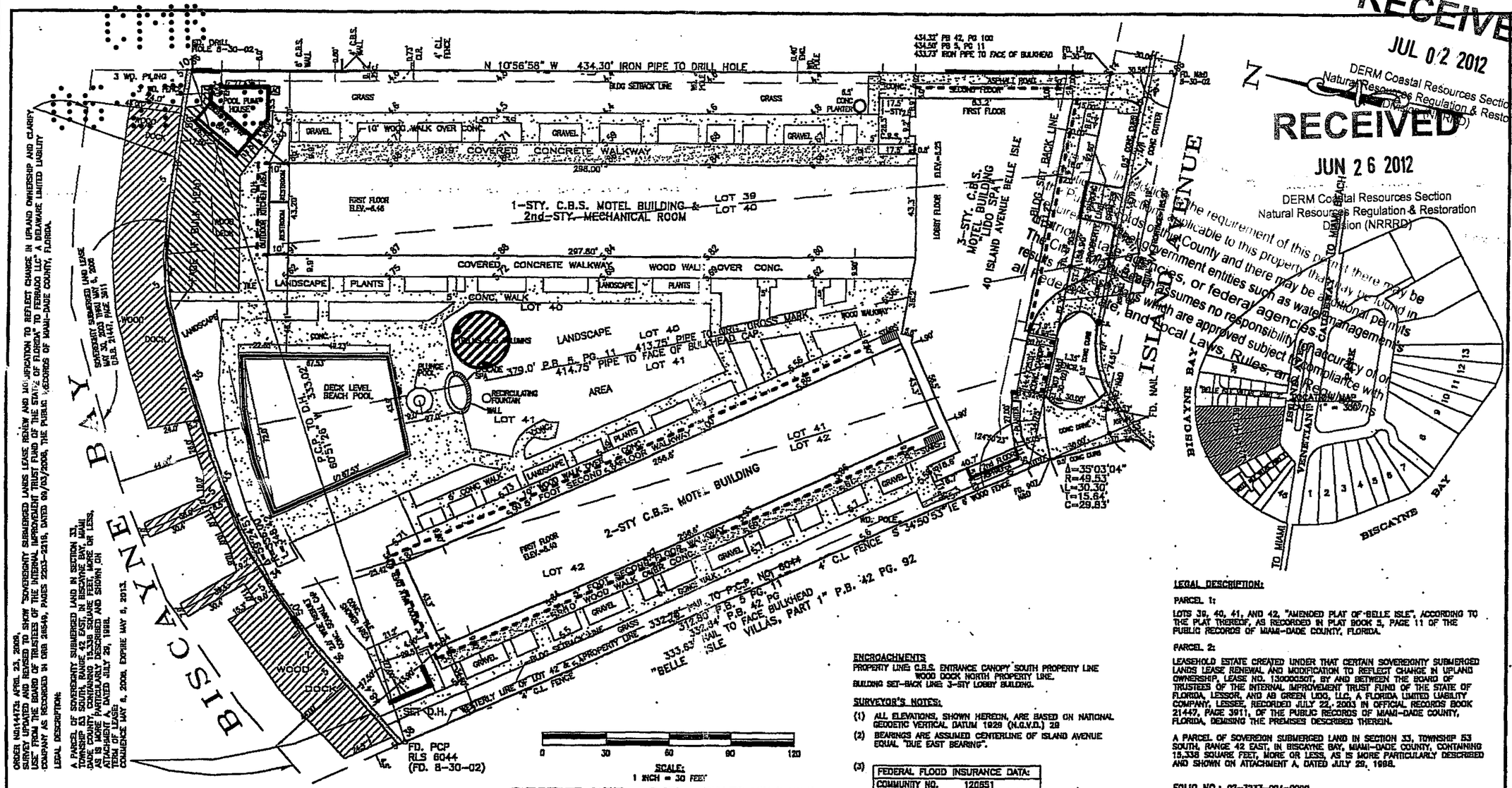
JUN 26 2012
DERM Coastal Resources Section
Natural Resources Regulation & Restoration
Division (NRRRD)

The requirement of this permit that there may be applicable to this property that may be found in the Dade County and there may be additional permits required from other governmental agencies, or federal agencies such as water management districts, state, and local laws, Rules, and Regulations which are approved subject to compliance with The City assumes no responsibility for accuracy of or all Rules and Regulations



ORDER NO:14473: APRIL 23, 2009.
SURVEY UPDATED AND REVISED TO SHOW "SOVEREIGNTY SUBMERGED LANDS LEASE REVIEW AND MODIFICATION TO REFLECT CHANGE IN UPLAND OWNERSHIP AND CLARIFY USE" FROM THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA" TO FERRADO LLC, A DELAWARE LIMITED LIABILITY COMPANY AS RECORDED IN ORB 26549, PAGES 2203-2216, DATED 06/03/2008, THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

LEGAL DESCRIPTION:

A PARCEL OF SOVEREIGNTY SUBMERGED LAND IN SECTION 33, TOWNSHIP 53 SOUTH, RANGE 42 EAST, IN BISCAYNE BAY, MIAMI-DADE COUNTY, CONTAINING 15,338 SQUARE FEET, MORE OR LESS, AS IS MORE PARTICULARLY DESCRIBED AND SHOWN ON ATTACHMENT A, DATED JULY 29, 1998.
TERM OF LEASE:
COMMENCE MAY 6, 2008, EXPIRE MAY 5, 2013.

REVISIONS:

ORDER NO. 13088: REVISED THIS 30th DAY OF AUGUST, 2002 TO UP-DATE AND RECERTIFY AS SHOWN.

ORDER NO. 13289: REVISED MAY 21, 2003, PER REVIEW OF LAWYER'S TITLE INSURANCE COMMITMENT NO. 52123456 LA. THIS SURVEY CERTIFIED TO THE FOLLOWING:
1) AB GREEN LIDO, LLC, A FLORIDA LIMITED LIABILITY COMPANY
2) LAWYERS TITLE INSURANCE CORPORATION
3) GREENBERG TRAURIG, P.A.
4) MELLON UNITED NATIONAL BANK, A NATIONAL BANKING ASSOCIATION, ITS SUCCESSORS AND/OR ASSIGNS.

ORDER NO. 13289: REVISED THIS 14th DAY OF JULY, 2003 TO SHOW ADDITIONAL ELEVATIONS. REF: F.B. 490-A PGS: 74-76

ORDER NO. 13327: REVISED SEPT. 08, 2003 TO UP-DATE SURVEY & RECERTIFY.

ORDER NO. 13631: REVISED DEC. 22, 2004, RECERTIFY TO THE ABOVE PARTIES LAWYERS TITLE INSURANCE COMPANY POLICY NO G 51-0004484, EFFECTIVE DATE NOV. 12, 2004

ORDER NO. 14010: REVISED JULY 25, 2006, UP-DATE SURVEY

ORDER NO.: 14326: REVISED FEBRUARY 07, 2008 TO UPDATE SURVEY & SHOW SUBMERGED LAND LEASE.

ORDER NO.: 14343: REVISED MARCH 26, 2008. RECOVER CORNERS, UPDATE SURVEY

ORDER NO.: 14473: REVISED APRIL 28, 2009. UPDATE SURVEY

LEGEND:

A.C. = AIR CONDITIONER
BLDG = BUILDING
℄ = CENTER LINE
C.B.S. = CONCRETE BLOCK STUCCO
CONC = CONCRETE
ENC. = ENCROACHMENT
E/P = EDGE OF PAVEMENT
FD = FOUND
IP = IRON PIPE
N&D = NAIL & DISK
O.H. = OVERHANG
P = PROPERTY LINE
RLS = REGISTERED LAND SURVEYOR No.
R/W = RIGHT OF WAY
WM = WATER METER

SKETCH OF SURVEY

"BELLE ISLE VILLAS, PART 2"
PB 42 PG 100

A. R. TOUSSAINT & ASSOCIATES, INC.
LAND SURVEYORS
FLORIDA CERTIFICATE OF AUTHORIZATION No. LB-273
620 N.E. 126 ST. NORTH MIAMI, FLORIDA 33161
ACAD FILE: C/2009/Ldb/13631_14326

ORDER No. 12957 — DATE: APRIL 25, 2002
FB: 490 A PGS: 62-64
FB:504 PG: 46 — DATE: DECEMBER 22, 2004
FB:508 PG: 13-17
ORDER No. 13631
FB: 508 PGS: 78-80 — DATE: JULY 25, 2006
ORDER No. 14010
FB: 531 PGS: 68 — DATE: FEBRUARY 07, 2008
ORDER No. 14326
FB: 531 PGS: 68 — DATE: APRIL 28, 2009
ORDER No. 14473

ENCROACHMENTS
PROPERTY LINE: C.B.S. ENTRANCE CANOPY SOUTH PROPERTY LINE
WOOD DOCK NORTH PROPERTY LINE.
BUILDING SET-BACK LINE: 3-STY LOBBY BUILDING.

SURVEYOR'S NOTES:

(1) ALL ELEVATIONS, SHOWN HEREON, ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929 (N.G.V.D.) 29

(2) BEARINGS ARE ASSUMED CENTERLINE OF ISLAND AVENUE EQUAL "DUE EAST BEARING".

(3)

FEDERAL FLOOD INSURANCE DATA:	
COMMUNITY NO.	120651
MAP NO:	12025C0184J
PANEL:	0184
SUFFIX:	"J"
FIRM MAP DATE:	07-17-85
REVISED PANEL DATE:	03-02-94
ZONE:	"AE"
BASE FLOOD ELEV.	9.0 FEET (NGVD)

FLOOR ELEVATION INFORMATION:

FRONT BUILDING: LOBBY ELEV. 6.24'; RESTAURANT ELEV. 4.87'; SECOND FLOOR ELEV. 17.00'; THIRD FLOOR ELEV. 30.28'; WEST WING FIRST FLOOR ELEV. 6.40'; SECOND FLOOR ELEV. 16.82'; EAST WING FIRST FLOOR ELEV. 6.46'; SECOND FLOOR ELEV. 16.56'.

ZONING: "RM-2" RESIDENTIAL MULTIFAMILY MEDIUM INTENSITY.
BUILDING SETBACK REQUIREMENTS: FRONT 20 FEET
INTERIOR SIDES: 5 FEET OR 5% OF LOT WIDTH, WHICH EVER IS GREATER; REAR NON-OCEAN FRONT: 5 FEET SEE CODE SUBDIVISION IV, SECTION 142-218.

NOTE:

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA SOVEREIGNTY SUBMERGED LANDS LEASE, (NO. 13000050T) RECORDED IN O.R. BOOK 19206 PG. 2753. THIS LEASE COVERS 44.0 FEET FROM SEAWALL, FOR A PERIOD OF 5 YEARS FROM MAY 6, 1998.
(NO. 13000050T) RECORDED IN O.R. BOOK 19206 PG. 2753. THIS AREA: 103,978 SQ. FT. OR 2.387 AC. MEASURED TO FACE OF SEAWALL CAP.

LEGAL DESCRIPTION:

PARCEL 1:

LOTS 39, 40, 41, AND 42, "AMENDED PLAT OF BELLE ISLE", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGE 11 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PARCEL 2:

LEASEHOLD ESTATE CREATED UNDER THAT CERTAIN SOVEREIGNTY SUBMERGED LANDS LEASE RENEWAL AND MODIFICATION TO REFLECT CHANGE IN UPLAND OWNERSHIP, LEASE NO. 13000050T, BY AND BETWEEN THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA, LESSOR, AND AB GREEN LIDO, LLC, A FLORIDA LIMITED LIABILITY COMPANY, LESSEE, RECORDED JULY 22, 2003 IN OFFICIAL RECORDS BOOK 21447, PAGE 3911, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, DEMISING THE PREMISES DESCRIBED THEREIN.

A PARCEL OF SOVEREIGN SUBMERGED LAND IN SECTION 33, TOWNSHIP 53 SOUTH, RANGE 42 EAST, IN BISCAYNE BAY, MIAMI-DADE COUNTY, CONTAINING 15,338 SQUARE FEET, MORE OR LESS, AS IS MORE PARTICULARLY DESCRIBED AND SHOWN ON ATTACHMENT A, DATED JULY 29, 1998.

FOLIO NO.: 02-3233-004-0090

ADDRESS: 40 ISLAND AVENUE
MIAMI BEACH, FLORIDA 33139-1355

SURVEYOR'S CERTIFICATION:

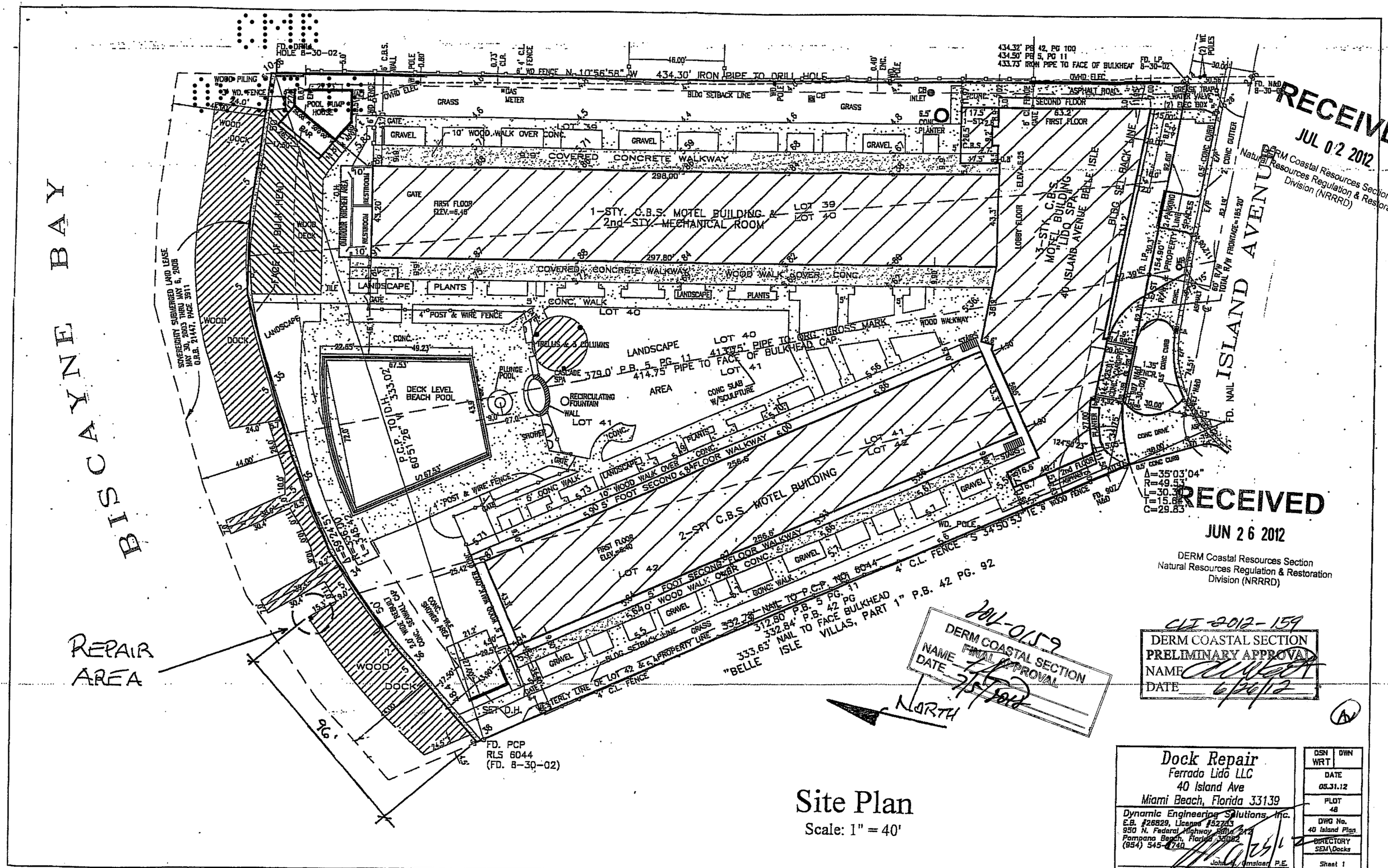
WE HEREBY CERTIFY THAT THIS SURVEY TO IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND PLATTED UNDER OUR DIRECTION AND THAT THIS SURVEY COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA, UNDER CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE, CHAPTER 472.07 FLORIDA STATUTES.
NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF THE

A.R. TOUSSAINT & ASSOCIATES, INC.

BY:_____ PRES.

ALBERT R. TOUSSAINT
REGISTERED ENGINEER NO. 5939
REGISTERED LAND SURVEYOR NO. 907
STATE OF FLORIDA

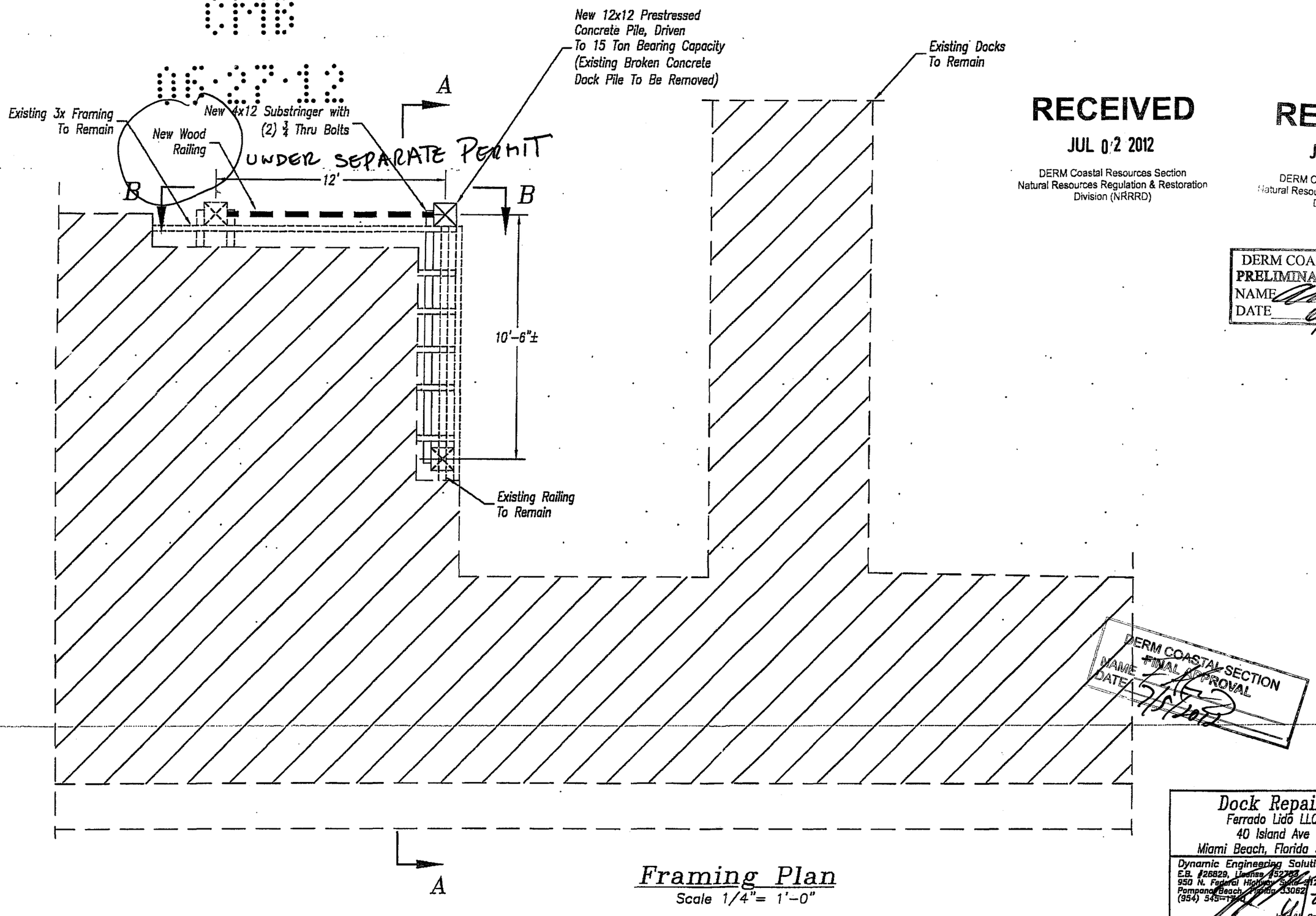
REVISED: 9-08-03
REVISED: 7-14-03
REVISED: 5-21-03
REVISED: 8-30-02
REVISED: 7-25-06
REVISED: 2-07-08
REVISED: 3-28-08
REVISED: 4-28-09



Site Plan

Scale: 1" = 40'

CMB
06.27.12



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DERM Coastal Resources Section
Natural Resources Regulation & Restoration Division (NRRRD)

RECEIVED
JUN 26 2012
DERM Coastal Resources Section
Natural Resources Regulation & Restoration Division (NRRRD)

DERM COASTAL SECTION
PRELIMINARY APPROVAL
NAME
DATE 6/26/12

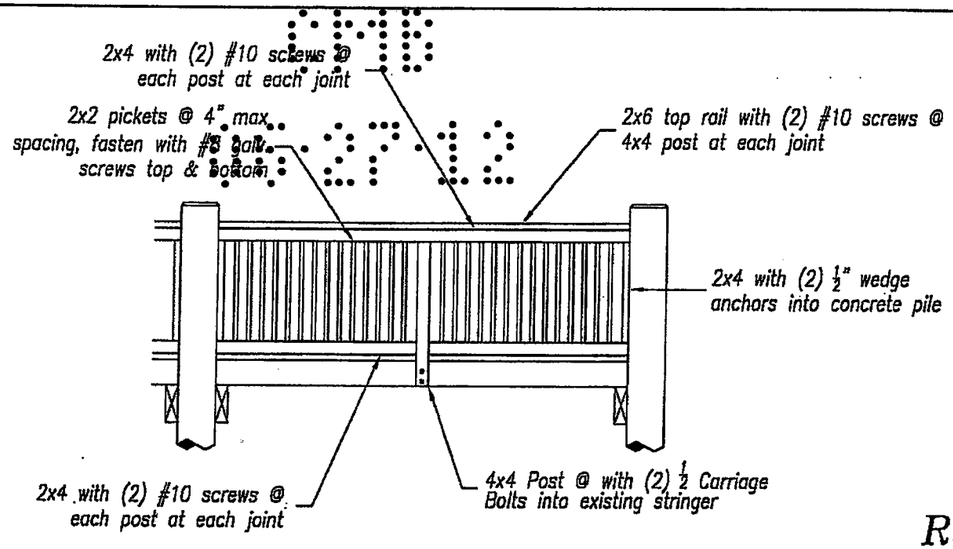
DERM COASTAL SECTION
FINAL APPROVAL
NAME
DATE 7/5/2012

Framing Plan
Scale 1/4"= 1'-0"

Dock Repair
Ferrado Lido LLC
40 Island Ave
Miami Beach, Florida 33139

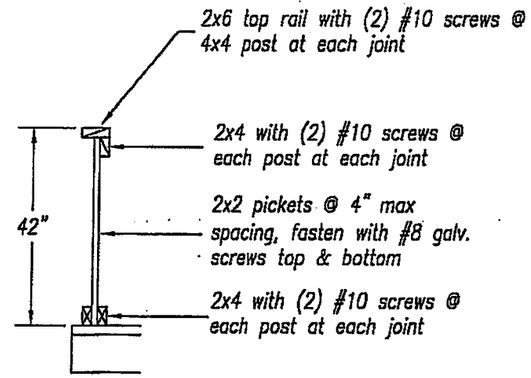
Dynamic Engineering Solutions, Inc.
E.B. #26829, License #52783
950 N. Federal Highway Suite 212
Pompano Beach, Florida 33062
(954) 545-1704
John H. Omslaer, P.E.

DSN	DWN
WRT	
DATE 05.31.12	
PLOT 48	
DWG No. 40 Island Plan	
DIRECTORY SEM\Docks	
Sheet 2	

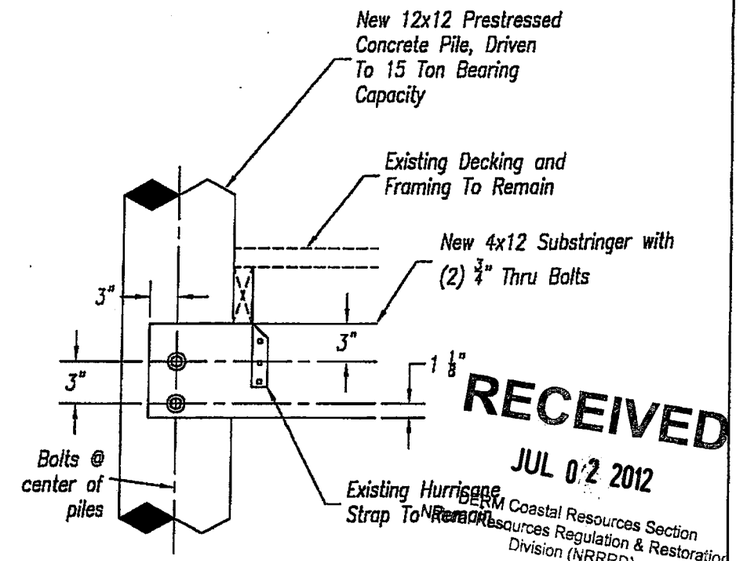


Section B–B

Scale 1/4"= 1'–0"



Rail Section



Pile Connection Detail

NDS Bolt Spacing Requirements

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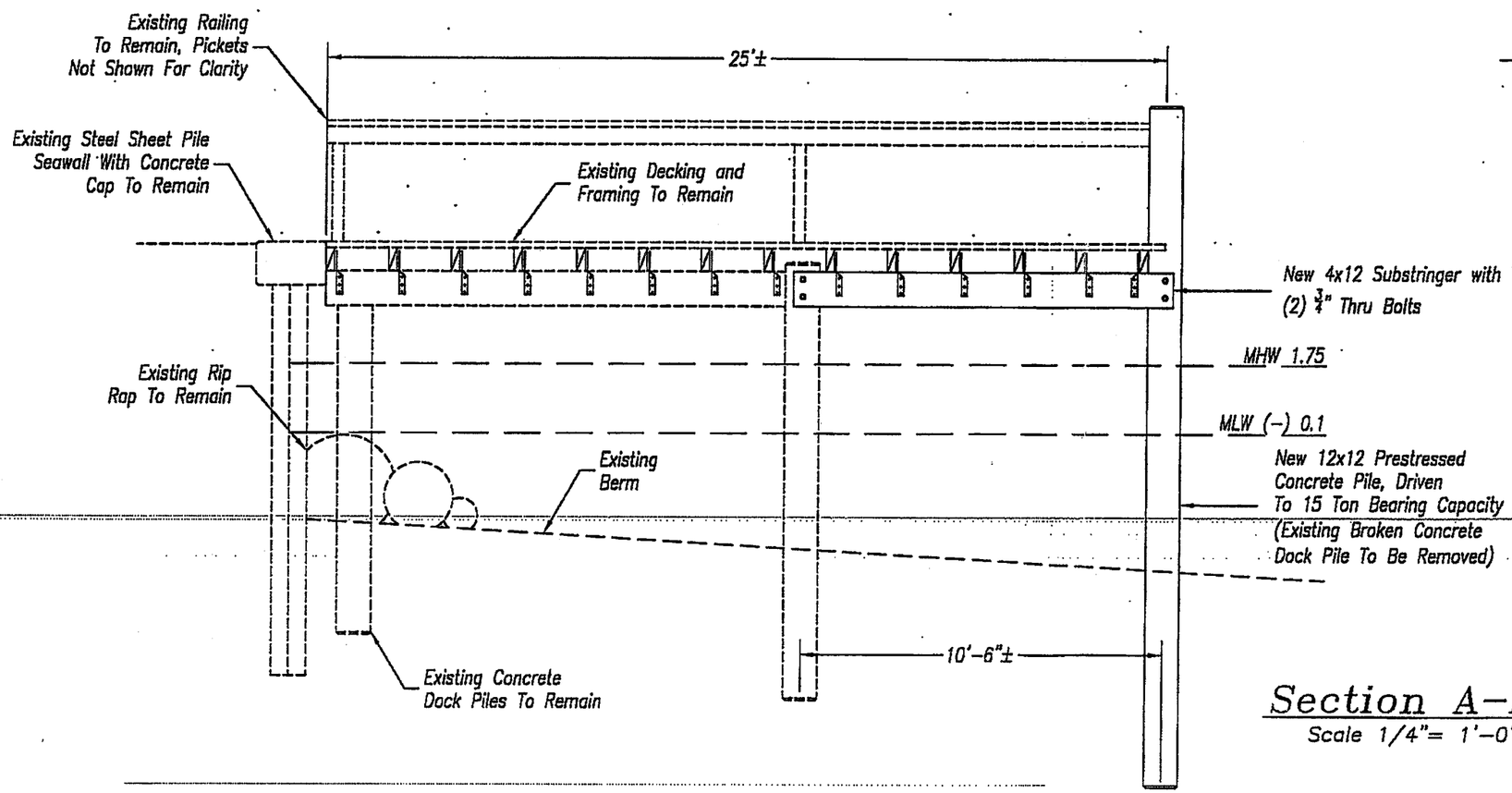
Natural Resources Regulation & Restoration Division (NRRRD)



Section A–A

Scale 1/4"= 1'–0"

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Natural Resources Regulation & Restoration Division (NRRRD)

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PRELIMINARY APPROVAL
NAME
DATE 6/26/12

DERM COASTAL SECTION
FINAL APPROVAL
NAME
DATE 7/5/2012

AV

Dock Repair
Ferrado Lido LLC
40 Island Ave
Miami Beach, Florida 33139

Dynamic Engineering Solutions, Inc.
E.B. #26829, License #52763
950 N. Federal Highway Suite 212
Pompano Beach, Florida 33062
(954) 545-1740
John H. Omslaar, P.E.

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DATE 05.31.12	
PLOT 48	
DWG No. 40 Island Plan	
DIRECTORY SEM\Docks	
Sheet 3	

CMB

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Natural Resources Regulation & Restoration
Division (NRRRD)

General Note:

All materials to be pressure treated pine. (unless otherwise noted).

All frame work materials to be grade #2.

All hardware to be Galvanized unless otherwise noted.

Design in accordance with 2010 edition of the Florida Building Code.

Elevations shown hereon are based on the National Geodetic Vertical Datum of 1929.

Approved contractor to determine the suitability of existing structures and verify all dimensions, the approved contractor is responsible for all methods, means, sequences and procedures of work.

CONCRETE PILE NOTES

1) Concrete pile concrete shall attain 6000 psi compressive strength in 28 days.
2) Concrete piles shall be reinforced with four – 7/16" lo–lax strands, 270 kips, and #5 spiral ties.
3) Concrete piles shall be 12"x12" square, min. length 20 feet.
4) Concrete piles shall be driven to a minimum bearing capacity of 15 tons.

GENERAL NOTES:

1) Construction to follow Florida Building Code 2010 edition and amendments as applicable and all Local, State, and Federal Laws.
2) Licensed Contractor shall verify the existing conditions prior to commencement of the work. Any conflicts or omissions between existing conditions or the various elements of the working drawings shall be brought to the attention of the Engineer prior to the commencement of the work. The Licensed Contractor and all sub–contractors are responsible for all lines, elevations, and measurements in connection with their work.
3) Do not scale drawings for dimensions.
4) Any deviation and/or substitution from the information provided herein shall be submitted to the Engineer for their approval prior to commencement of work.
5) All unanticipated or unforeseen demolition and/or new construction conditions which require deviation from the plans and notes herein shall be reported to the Engineer prior to commencement of work.
6) All new work and/or materials shall conform to all requirements of each administrative body having jurisdiction in each pertaining circumstance.
7) All new materials and/or patchwork shall be provided to match existing materials and/or adjoining work where practical except as specifically noted herein.
8) Licensed Contactor to shall use all possible care to protect all existing materials, surfaces, and furnishings from damage during all phases of construction.
9) Licensed Contractor to verify location of existing utilities prior to commencing work.
10) The Licensed contractor to install and remove all shoring and bracing as required for the proper execution of the work.
11) Licensed Contractor to obtain all permits as necessary from all Local, State, and Federal agencies.

PILE DRIVING NOTES

1) Pile driving operations shall be observed by a special inspector, including test piles sufficient to determine the approximate length required to meet design capacity.
2) Piles shall be driven using an approved cushion block consisting of material so arranged so as to provide the transmission of the hammer energy.
3) Piles shall be driven to required capacity a minimum of 12 feet into berm.
4) Piles shall be driven with a drop hammer or gravity hammer provided the hammer shall weigh no less than 3000 pounds, and the fall of the hammer shall not exceed six feet.
5) Piles shall be driven with a variation of not more than 1/4 inch per foot from the vertical, or from the batter line indicated, with a maximum variation of the head of the pile from the position shown on the plans of not more than three inches.
6) Where piling must penetrate strata offering high resistance to driving, the structural engineer of record or special inspector may require that the piles be set in pre–drilled or punched holes. The piles shall reach their final penetration by driving.

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JUN 26 2012
DERM Coastal Resources Section
Natural Resources Regulation & Restoration
Division (NRRRD)

DERM COASTAL SECTION
FINAL APPROVAL
NAME
DATE 7/5/2012

DERM COASTAL SECTION
PRELIMINARY APPROVAL
NAME
DATE 6/26/12

Dock Repair
Ferrado Lido LLC
40 Island Ave
Miami Beach, Florida 33139

Dynamic Engineering Solutions, Inc.
E.B. #26829, License #52733
950 N. Federal Highway Suite 212
Pompano Beach, Florida 33062
(954) 545-1746
John H. Omeijer, P.E.

DSN WRT	DWN
DATE 05.31.12	
PLOT 48	
DWG No. 40-Island Plan	
DIRECTORY SEM\Docks	
Sheet 4	

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Master B1204324
40 Island Ave

OFFICE COPY

[redacted] COPY

CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	7/6/12
ZONING:	6/27/12
FIRE/HRS:	
CONTAGIOUS AGENCY:	
PLUMBING:	07/06/12
ELECTRICAL:	6/27/12 NA
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	07/06/12
PUBLIC WORKS:	6/27/12
STRUCTURAL:	6/27/12
ELEVATOR:	

City of Miami Beach
Public Works Department
Approved ✓ Not Approved
By: Date: 6/27/12
Comments: ~~Approved~~ - Deck only

HURRICANE ENGINEERING & TESTING INC.

Computer Controlled Product Testing & Design,
.....Wind Load Analysis

Uniform Static Air Pressure Test
R & D Test

(TAS 202 for Cladding Assemblies)

February 28, 2008

REPORT NUMBER:	**HETI-08-2011**
MANUFACTURER:	Acoustiblok, Inc. 6900 Interbay Blvd, Tampa, FL 33617.
TEST LOCATION:	Hurricane Engineering & Testing Inc. 6120 NW 97th Avenue, Miami, Florida 33178

LAB. CERTIFICATION No.: 07-0213.01 (MIAMI-DADE COUNTY, FLORIDA)
IAS. CERTIFICATION No.: TL-296
FBC ORGANIZATION No: TST1691
FBPE Certificate of Authorization Number: 6905

PRODUCT:	Sound Panel.
PRODUCT SIZE:	98 7/8" x 50 15/16"
DRAWING NUMBER:	*Sketch as attached as no formal Drawing was provided.* NOTE: *HETI stamped drawing is an integral part of this report.*
DESIGN LOADS (psf):	**+60, -60, and to Failure.**
TEST WITNESSED BY:	Syed Waqar Ali, Ph. D. (HETI) Dr. Nasreen K Ali, E. I. (HETI) Mr. Candido F. Font, P.E. (HETI)

Construction Details

PRODUCT Sound Panel

DESCRIPTION OF UNIT

Model Designation

Mounting Condition *Inside Mount* (using2x2 Aluminum Angles).

Overall Size 98 7/8" x 50 13/16"

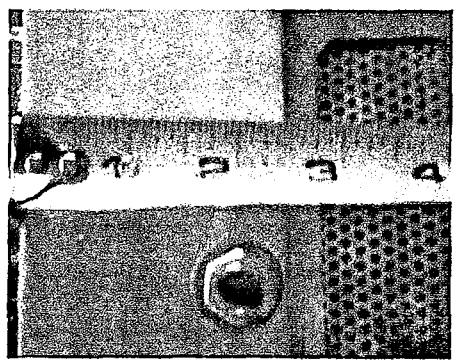
Sound Panel Size 93 ¼" x 45 1/8".

Extrusions

Component	Overall Dimension (Inches)*	Wall Thickness (Inches)	Material
Perimeter Frame I Beam	3" x 2 ½"	0.250	6063-T5
Inside and outside Mounting Angle	2" x 2"	0.125	6063-T5

Summary of Construction

The sound panel was constructed by using the I-Beam as indicated above and the sound panel was placed inside the I-Beam Frame and attached to the I-Beam frame using 6" 3/8" x 4" carriage bolts and a sleeve through the sound panel. (6) Bolts were used along the long side and (3) bolts were used along the short side.



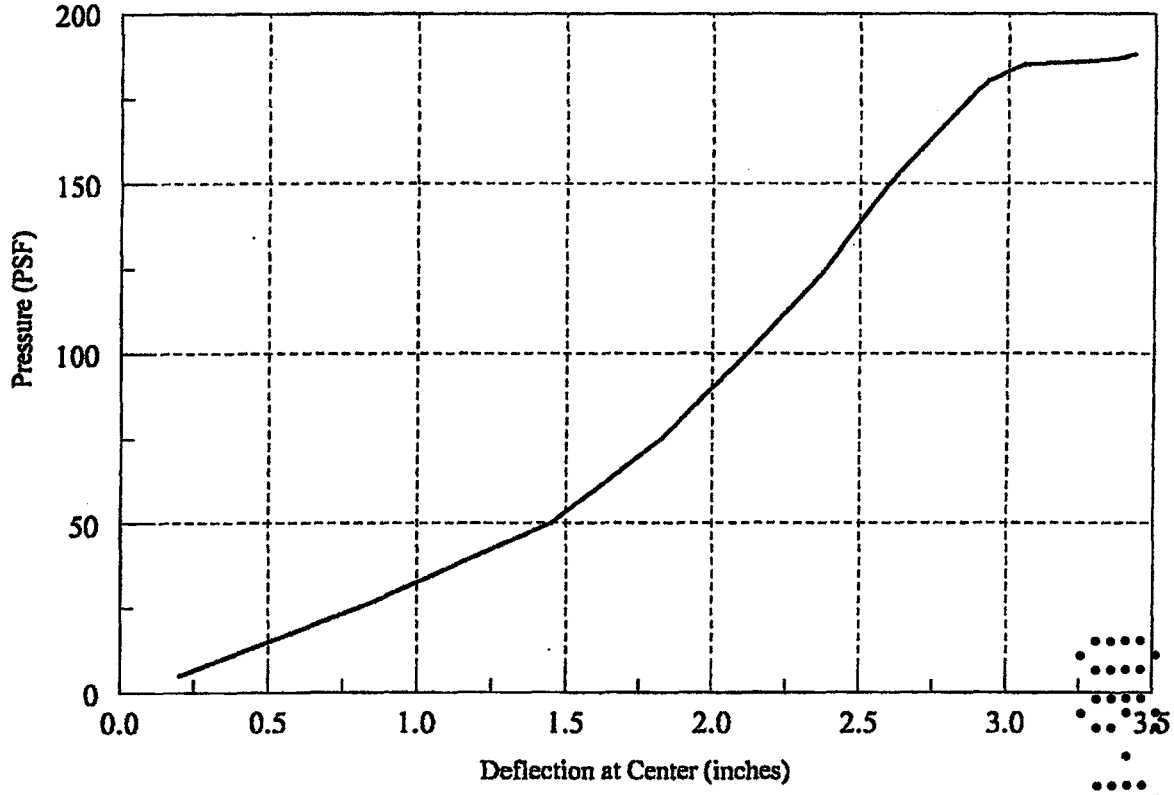
Test Results

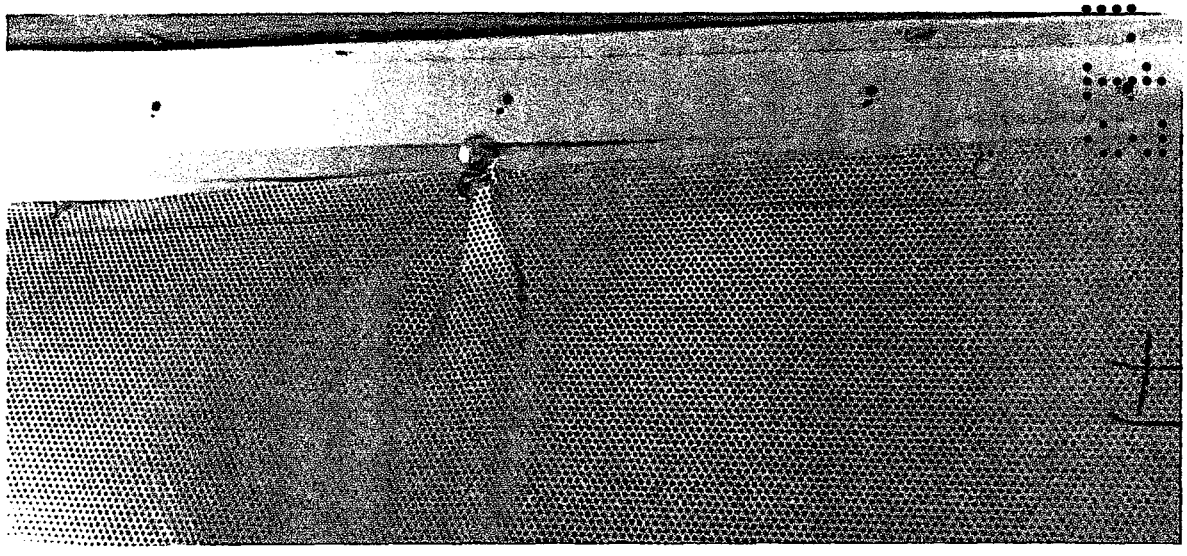
Uniform Static Air Pressure Test Results

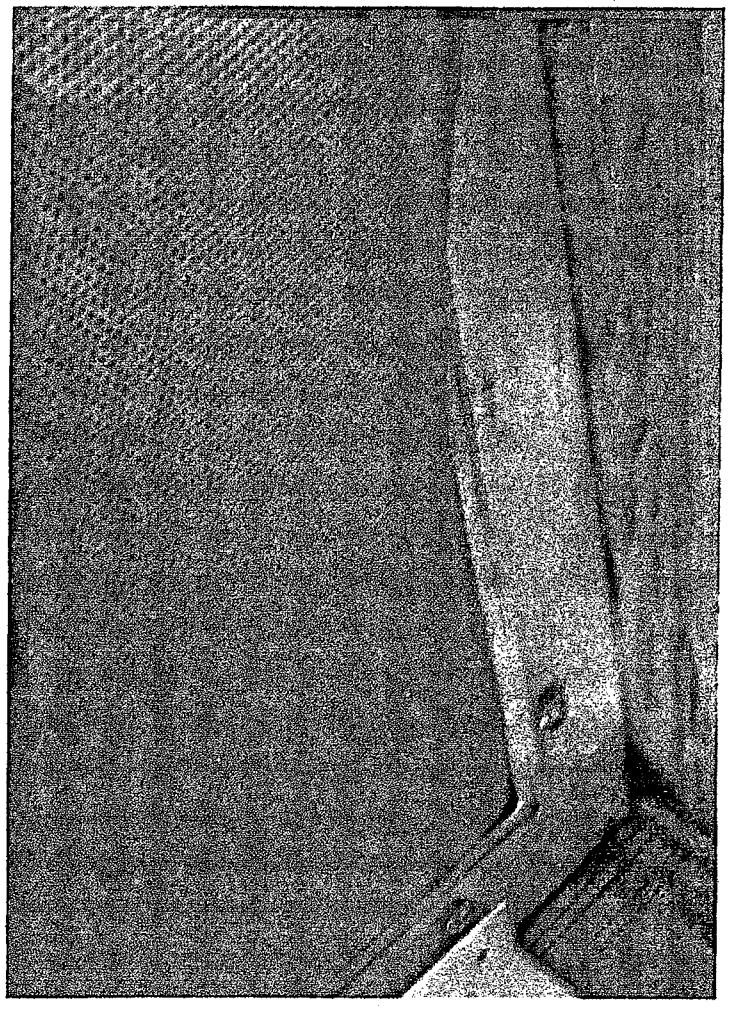
	Pressure (psf)	Center Deflection (inches)	Set (inches)	Recovery (%)	Duration (seconds)
Pressure applied to Grill side					
Half Test load	+45	2.52	0.107	95.7	30
Design load	+60	2.58	0.00	100	30
Test load	+90	3.22	0.00	100	30
Pressure Applied to Solid Side					
Half Test load	-45	0.64	0.0	100	30
Design load	-60	0.85	0.00	100	30
Test load	-90	1.28	0.00	100	30

Uniform Load Test was performed in accordance with ASTM E330-02. The Deflection gage was placed at the center of the specimen.

Sound Panel Static Wind Pressure Test to Failure
Acoustiblock, Inc.
(Reference: HETI-08-2011.106 at Hurricane Engineering & Testing, Inc.)
Pressure Applied to the Solid Surface







Conclusion

The sample was tested in accordance with FBC TAS 202, Miami-Dade County Test protocol PA 202, and ASTM E 330 with no deviations. The sample was tested to failure.

NOTE: The above results were obtained using the designated test methods, which indicates compliance with the performance requirements of the referenced specifications. This report does not constitute certification of the specimens tested.

STATEMENT OF INDEPENDENCE

The Hurricane Engineering & Testing, Inc., does not have, nor does it intend to acquire or will acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the Hurricane Engineering & Testing, Inc. Hurricane Engineering & Testing, Inc., is not owned, operated or controlled by any company manufacturing or distributing products it test or labels.

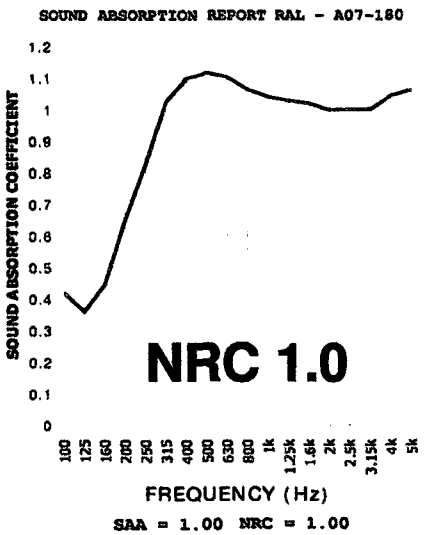
Dr. Nasreen K. Ali
Vice President

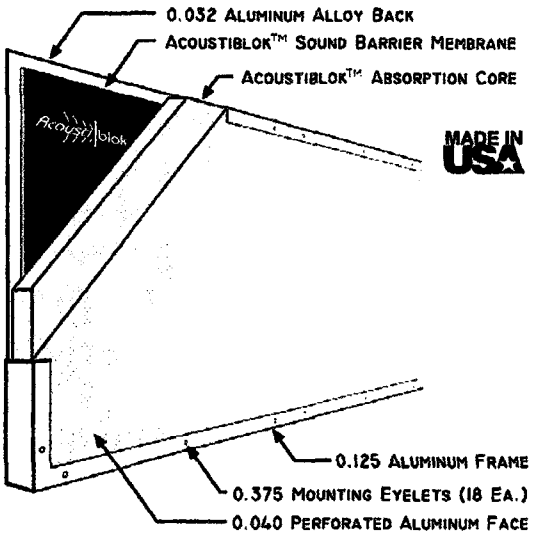
Acoustiblok®
quieting the world

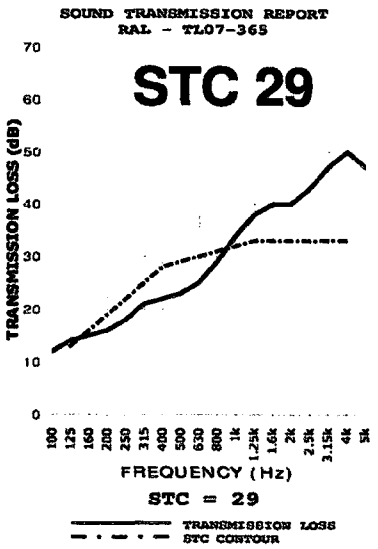
WORLDWIDE
MADE IN USA
MOLD PROOF 100% CERTIFIED
100% Recyclable

North American Office
Acoustiblok, Inc.
6906 Interbay Boulevard
Tampa, FL 33616 USA
Phone: 813-980-1400
Fax: 813-549-2653
www.acoustiblok.com
sales@acoustiblok.com

Industrial Model All Weather Sound Panel™ (Pat. Pend)
Technical Data







Acoustiblok All Weather Sound Panels™ achieve high STC and NRC ratings. They have been specifically designed to withstand outdoor exposure in full sunlight, extreme weather conditions, and harsh industrial environments. (NRC of 1.0 is the highest sound absorption rating possible)

All Weather Sound Panels include an internal layer of U.L. classified Acoustiblok sound isolation material plus a specifically engineered 2" thick weather proof sound absorbing material.

Specifications:		
NRC (Noise Reduction Coefficient):	1.00 *	Gross dimensions: up to 48" x 120"x 2.423", ± 0.125" custom sizes available on special order.
STC (Sound Transmission Class):	29 *	Frame construction: 0.125" welded corrosion resistant 6063-T5 aluminum, mill finish, eyelets: 0.375" (18 ea.)
Weight: (8' panel)	104 lbs	Front face: 0.040 corrosion resistant 5052-H32 aluminum alloy, 3/32" round holes staggered on 5/32" centers.
UL Std 723 fire resistance: Flame spread 0, smoke developed 0.		Back face: 0.032 corrosion resistant 5052-H32 aluminum alloy, mill finish.
UV tolerant, animal resistant, washable, does not support mold growth.		

* Independent Testing by accredited NVLAP testing facility in compliance with ASTM E90, E 413, and other applicable industry standards.

Subject to change without notice, contact Acoustiblok for details.

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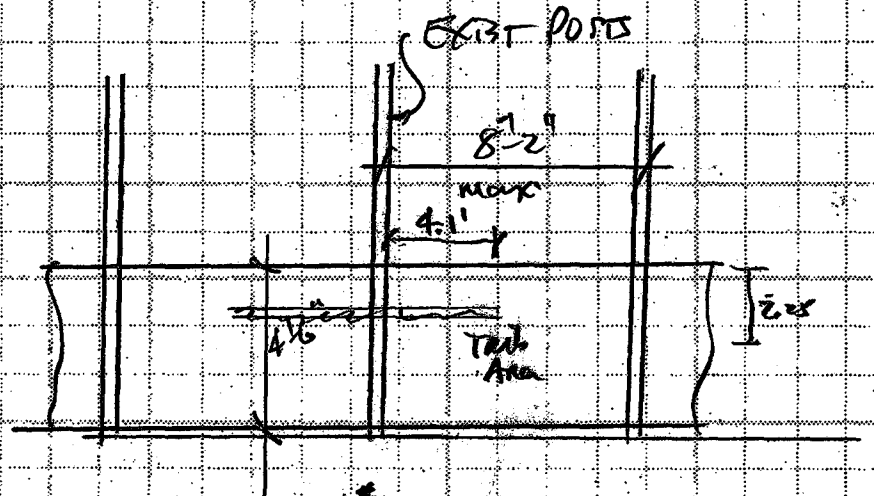
CODE: 2010 FBC
WIND: ASCE 7-10

DESIGN CONNECTIONS FOR PANELS ON ROOF

1a LOADS ON CONNECTORS:

WIND PRESSURE = 53.15 psf

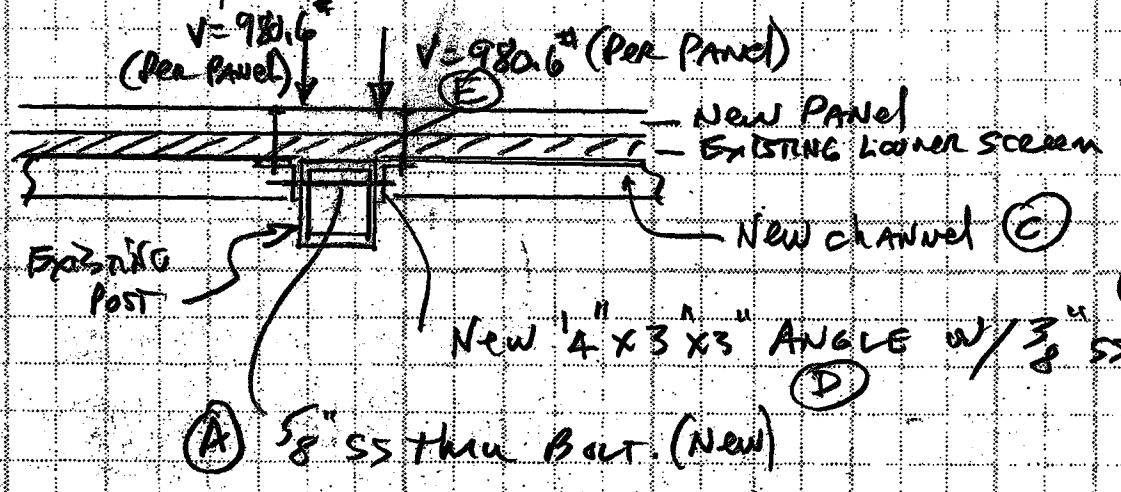


WIND LOAD per LF =

$4.5 \times 53.15 = 239.17$ #/LF

TRIB AREA $= \frac{8.2}{2} = 4.1$ SF/LF

TOTAL LOAD $= 4.1(239.17) = 980.6$ #



a. DESIGN THRU BOLT @ CLIPS

TOTAL LOAD = 980.6#

$V_{CONN} = \frac{980.6}{2} = 490.3$ #/BOLT SHEAR.

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		CALCS
		5-14-13	1

PER AISC MANUAL

Shear Capacity of A325

SINGLE Shear @ 5/8" Bolt = 5.4 K/BOLT

> 0.490 K (OK)

(A) USE: 5/8" x 8" SS BOLT. A325 or EQUIVALENT. W/ NUTS & WASHERS

b. DESIGN BOLT FROM CLIP TO CHANNEL

Max LOAD per BOLT = $\frac{980.6}{2}$ = 490.3 # TENSION

Try 3/8" BOLT : 20 KSI

Area = 0.068

∴ Tensile Strength = 20 K (0.068) = 1.36 K

∴ 1.36 K > 0.490 K (OK)

(B) USE: 3/8" Bolt to Attach Panel to Clip.

c. Check channel:

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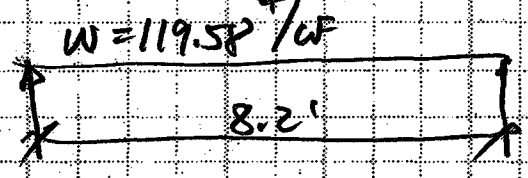
P.E. #038398
(305)823-3938

CALCS.

5-14-13

2

Load on channel = $53.15 \times \frac{4.5}{2} = 119.58$ #/LF



$$M = \frac{119.58\,(8.2)^2\,12}{8} = 12060.8^{\text{in\#}}$$

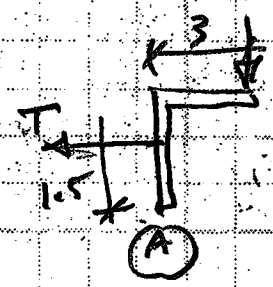
$$S_{req'd} = \frac{12060.8}{(0.67)(36000)} = 0.50\,in^3$$

Try: MC 6x12

$S_y = 1.04\,in^3 > 0.50\,in^3$ (OK)

(C) **USE: MC 6x12 channel Top & Bottom.**

d. Design Angle clip:



$980.6/2 = 490.3$ #

$1.5T = 3(490.3)$

$T = 980.6$ #

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(305)823-3938

CALCS

5-14-13

Capacity of $\frac{5}{8}$" Bolt in tension (AISC manual)

$= 13.5^k > 0.980^k$ (OK)

Angle:

$$t = \sqrt{\frac{4 V_u e_v}{\phi f_y b}}$$

$$t = \sqrt{\frac{4(490.3)(3)}{0.90(36000)(4)}} = 0.21''$$

(D) $\boxed{\text{Use clip: } 3'' \times 3'' \times \frac{1}{4}'' \times 4'' \text{ long}}$

e. Bolt to Attach Panel to Clip

Try: $\frac{1}{4}$" Bolt. Load = 490.3^k

Capacity of $\frac{1}{4}$" Bolt in tension.

Root Area = 0.027

A307 Bolt ($F_t = 20.0^k$)

Capacity $= 20.0 \times 0.027 = 0.54^k > 0.49^k$

(E) $\boxed{\text{Use: } \frac{1}{4}\text{" Bolt to Panel}}$

Edward A. LANDERS, P.E.
CONSULTING ENGINEERS
P.E. #038398
(305)823-3938

MECAWind Version 2.1.0.6 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2013 www.mecaenterprises.com

Date	: 5/14/2013	Project No.	: 1812703-01
Company Name	: Edward A. Landers, P.E.	Designed By	: Edward A. Landers, P.E.
Address	: 7850 NW 146th Street, #509	Description	: Hotel
City	: Miami Lakes	Customer Name	: 40 Island Avenue
State	: Florida 33016	Proj Location	: Miami Beach, Florida

File Location: C:\Program Files (x86)\MECAWind\Default.wnd

Other Structures & Building Appurtances MWFRS (Ch 29)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Basic Wind Speed(V)	=	175.00 mph			
Structural Category	=	II	Exposure Category	=	D
Natural Frequency	=	N/A	Flexible Structure	=	No
Importance Factor	=	1.00	Kd Directional Factor	=	0.85
Damping Ratio (beta)	=	0.01			
Alpha	=	11.50	Zg	=	700.00 ft
At	=	0.09	Bt	=	1.07
Am	=	0.11	Bm	=	0.80
Cc	=	0.15	l	=	650.00 ft
Epsilon	=	0.13	Zmin	=	7.00 ft

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	=	30.00 ft
lzm:	Cc*(33/Zm)^0.167	=	0.15
Lzm:	l*(Zm/33)^Epsilon	=	642.30 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	=	0.91
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	=	0.89

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Design Wind Pressure - Other Structures

Elev ft	Kz	Kzt	qz psf	W_Pres_Cf(.00) psf
50.00	1.33	1.00	53.158	.00
50.00	1.33	1.00	53.158	.00
40.00	1.29	1.00	51.636	.00
30.00	1.25	1.00	49.865	.00
20.00	1.19	1.00	47.733	.00
10.00	1.13	1.00	45.020	.00

Note: W_Pres_Cf is Wind Pressure based on Cf(Force Coefficient)

Figure 29.4-1: Wind Loads for Solid Signs & Freestanding Walls

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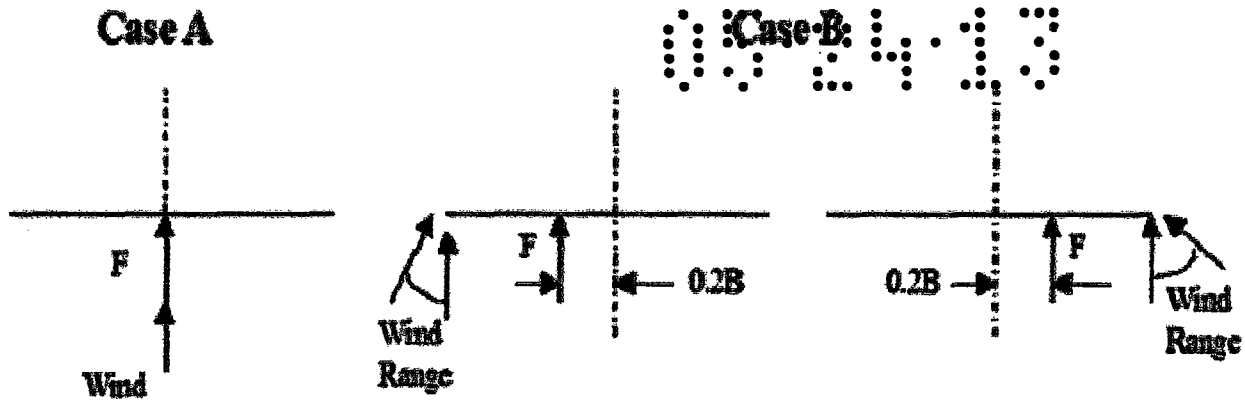
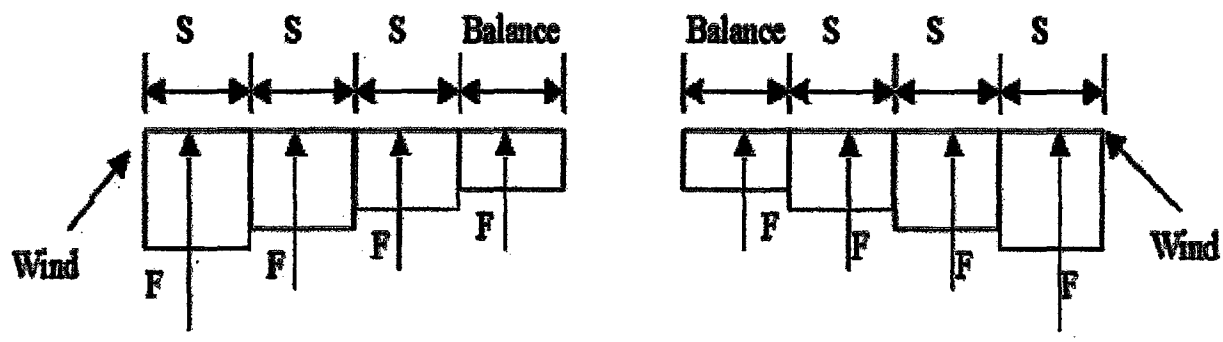


Cf - Force Coefficient	=	.00
Rd - Reduction Factor (1-(1-E)^1.5)	=	.00
Kz	=	1.33
Kzt	=	1.00
Qz	=	53.158 psf
Wind Pressure at Elevation 50 ft	=	**.000 psf**

Notes: 1) Signs with openings comprising < 30% of gross area are considered solid signs
2) Force Coefficients for solid signs with openings shall be multiplied by Rd
3) Case C only applies when Bs >= 2

Case C



Distance from leading edge ft	Cf Force Coeff.	Kz	Kzt	Qh psf	Wind_Pressure @ Distance psf
From 0 to 4.5	.00	1.33	1.00	53.16	.00
From 4.5 to 9.0	.00	1.33	1.00	53.16	.00
From 9.0 to 13.5	.00	1.33	1.00	53.16	.00
From 13.5 to 18.0	.00	1.33	1.00	53.16	.00
From 18.0 to 22.5	.00	1.33	1.00	53.16	.00
From 22.5 to 45.0	.00	1.33	1.00	53.16	.00
> 45.0	.00	1.33	1.00	53.16	.00

RdC - Reduction Factor for Case C (1.8 - S / Ht) = 1.00
Note: When S / Ht > 0.8 then Cf must be multiplied by RdC.

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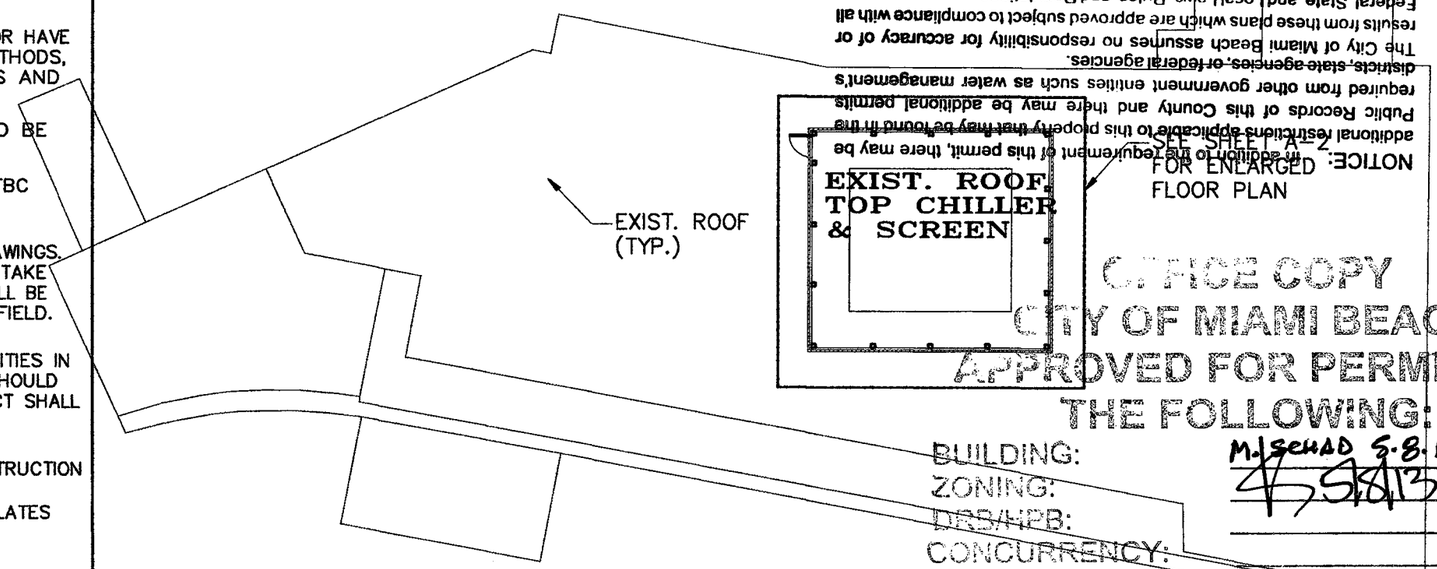
City of Miami Beach
Fire Prevention Division
PLANS APPROVED

GENERAL NOTES:

1. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OR CHARGE OF THE CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS AND PROGRAMS.
2. CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME.
3. ALL WORK MATERIAL SHALL BE IN COMPLIANCE WITH THE FBC 2010
4. DO NOT SCALE DRAWING: USE DIMENSION INDICATED ON DRAWINGS. DIMENSIONS OF LARGER SCALE DRAWING AND DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND VERIFY SAME IN FIELD.
5. IN THE EVENT THERE ARE FOUND DISCREPANCIES OR AMBIGUITIES IN OR OMISSION FROM THE SPECIFICATIONS OR DRAWINGS, OR SHOULD THE DOUBT AS TO THEIR MEANING AND INTENT, THE ARCHITECT SHALL BE NOTIFIED IN ORDER TO PROVIDE CLARIFICATION.
6. THE PREMISES SHALL STAY CLEAN THROUGH OUT THE CONSTRUCTION
7. STRUCTURAL STEEL SHALL COMPLY WITH ASTM A-36 FOR PLATES AND STEEL SHAPES.



NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management's districts, state agencies, or federal agencies.
The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	M.J. SCHAD 5.8.13
ZONING:	5/8/13
DRB/HPB:	
CONCURRENCY:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	05/08/13
FIRE PREVENTION:	5/8/13
ENGINEERING:	05/06/13
PUBLIC WORKS:	05/06/13
STRUCTURAL:	6/4/13
ELEVATOR:	

ISLAND AVENUE

EXISTING ROOF PLAN 1"=20'

B13039914

FATHI ARCHITECTS, INC.
AA 0003068
IB 0001031
ARCHITECTS
INTERIORS
PLANNERS
11863 SW 11TH STREET
PEMBROKE PINES
FLORIDA 33029
TEL: (305) 439-3348
af@fathiarchitects.com
www.fathiarchitects.com

SEAL
ASGHAR FATHI, R.A.
AR0016048
4/30/13

CONSULTANT:

PROJECT:
ACOUSTICAL PANEL SCREEN AT:
40 ISLAND AVE.
MIAMI BEACH, FL. 33139

OWNER:
STANDARD HOTEL
ADDRESS:
40 ISLAND AVE.
MIAMI BEACH, FL. 33139
PHONE:

REVISIONS	DATE	BY

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COMMISSION No:	042313
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SHEET NO.	OF

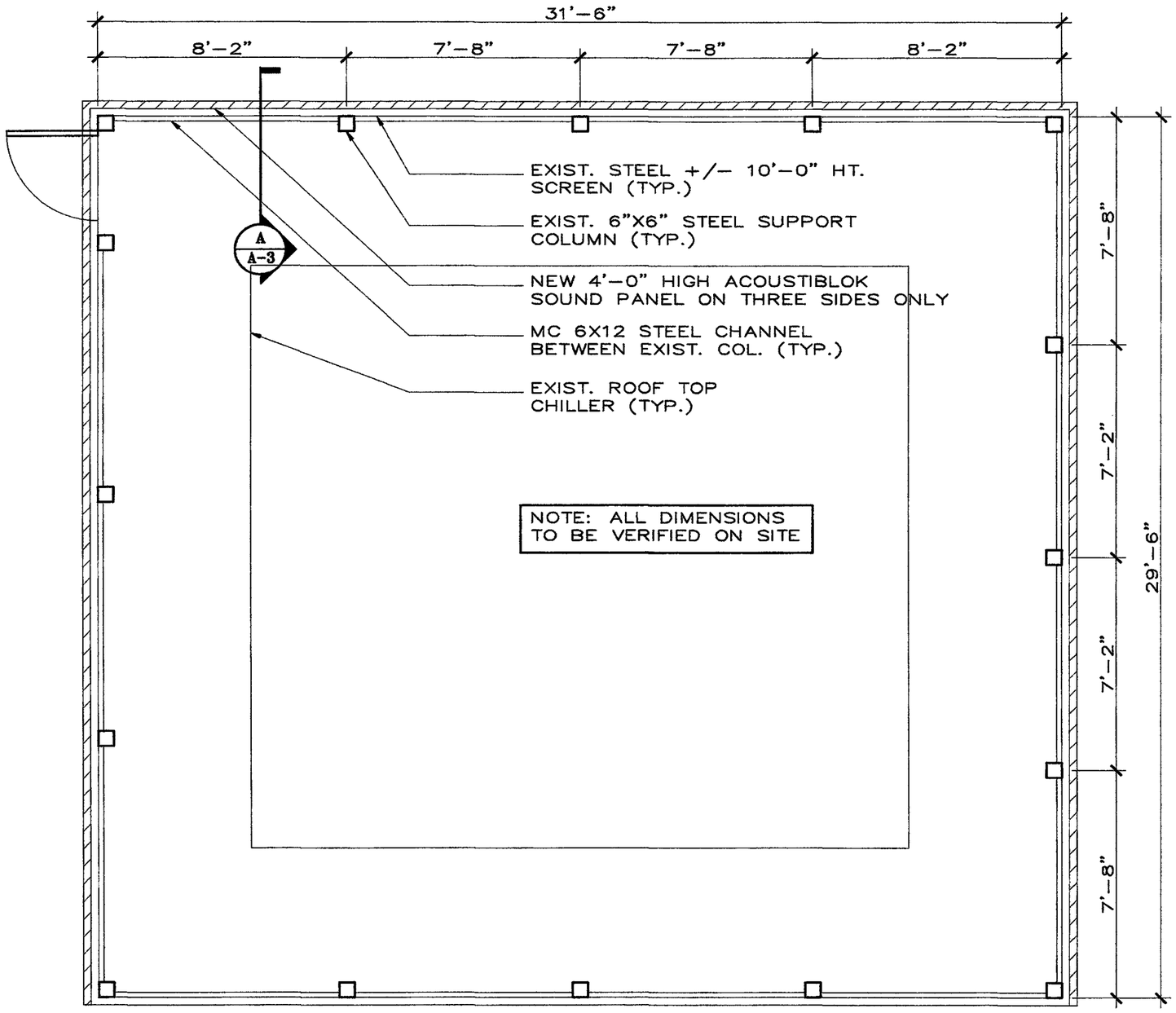
PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By: Date: 06.04.13



ENLARGED FLOOR PLAN 1/4"

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05·24·13

FATHI ARCHITECTS, INC.
AA 0003068
IB 0001031
ARCHITECTS
INTERIORS
PLANNERS
17983 SW 11TH STREET
PEMBROKE PINES
FLORIDA 33029
TEL: (305) 439-3349
af@fathiarchitects.com
www.fathiarchitects.com

SEAL:
ASGHAR FATHI R.A.
AR0016045
5/24/13

CONSULTANT:

PROJECT:
ACOUSTICAL PANEL SCREEN AT:
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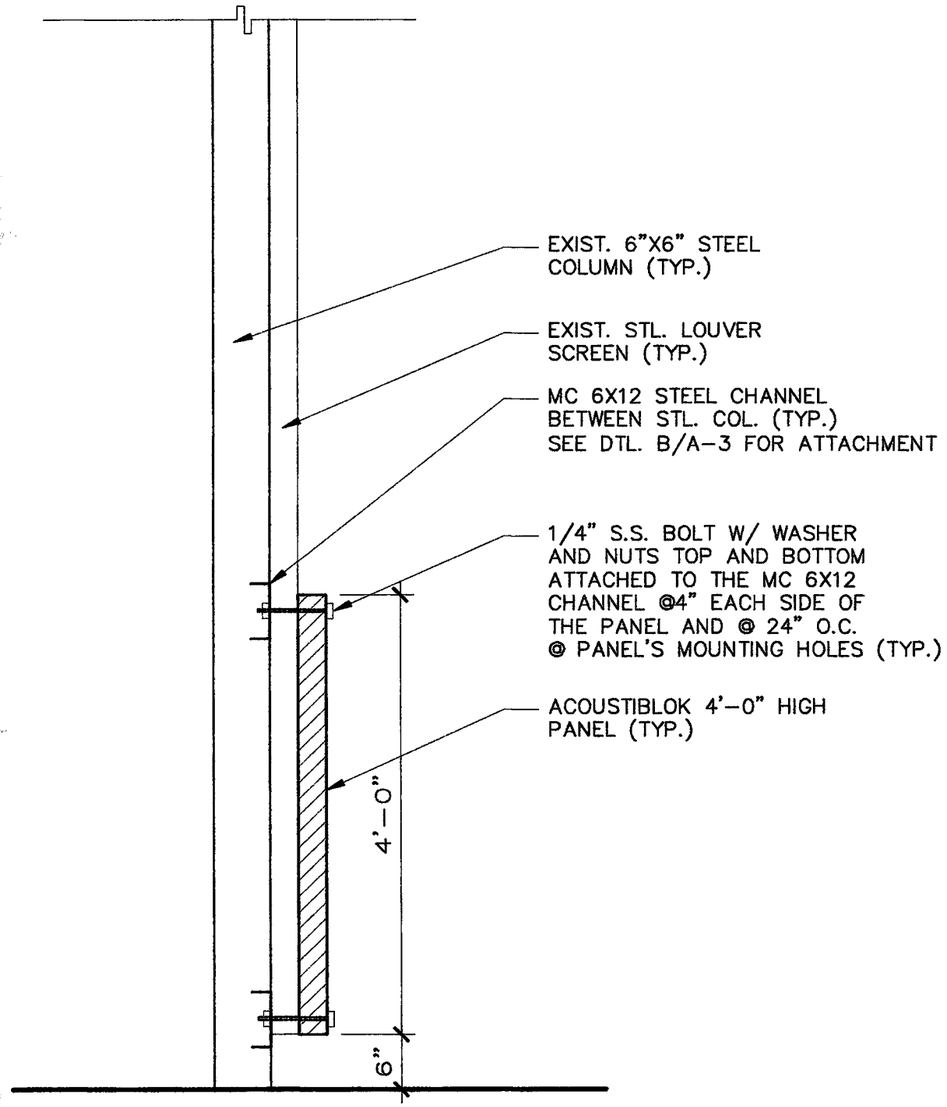
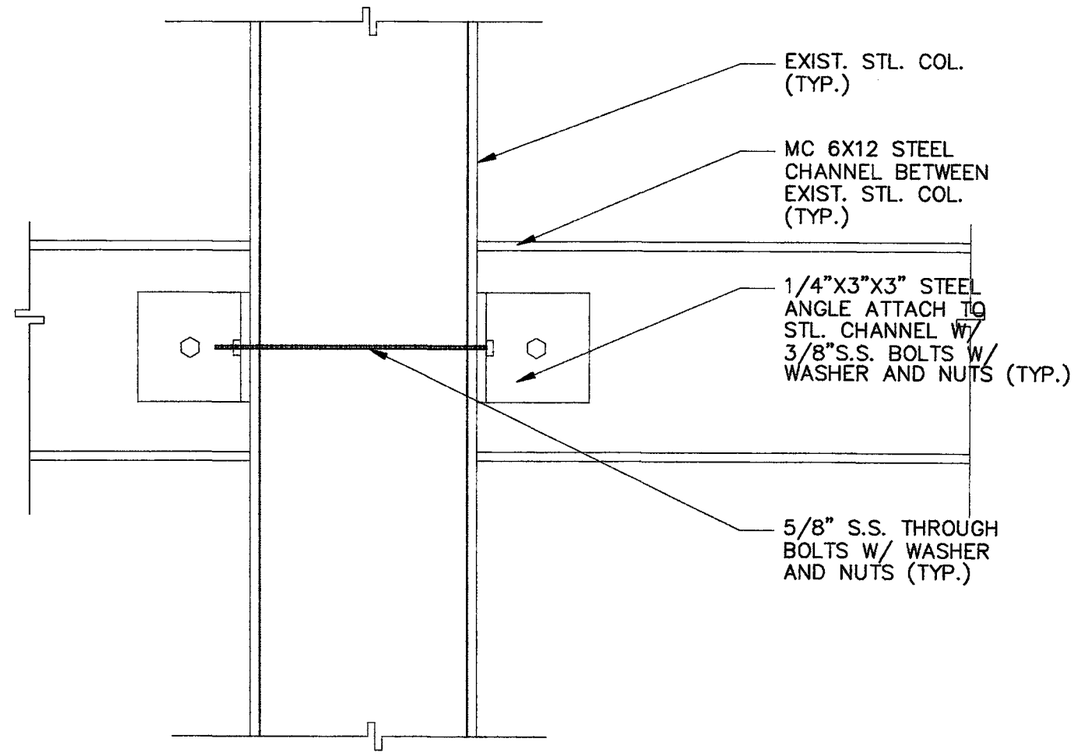


A/A-3 DETAIL 3/4"



B/A-3 DETAIL 1 1/2"

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05.08.1

FATHI ARCHITECTS, INC.
AA0003068
IB0001031
ARCHITECTS
INTERIORS
PLANNERS
9933 SW 11TH STREET
PEMBROKE PINES
FLORIDA 33029
TEL: (305) 439-3346
af@fathiarchitects.com
www.fathiarchitects.com

SEAL
ASGHAR FATHI, R.A.
AR0015049

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