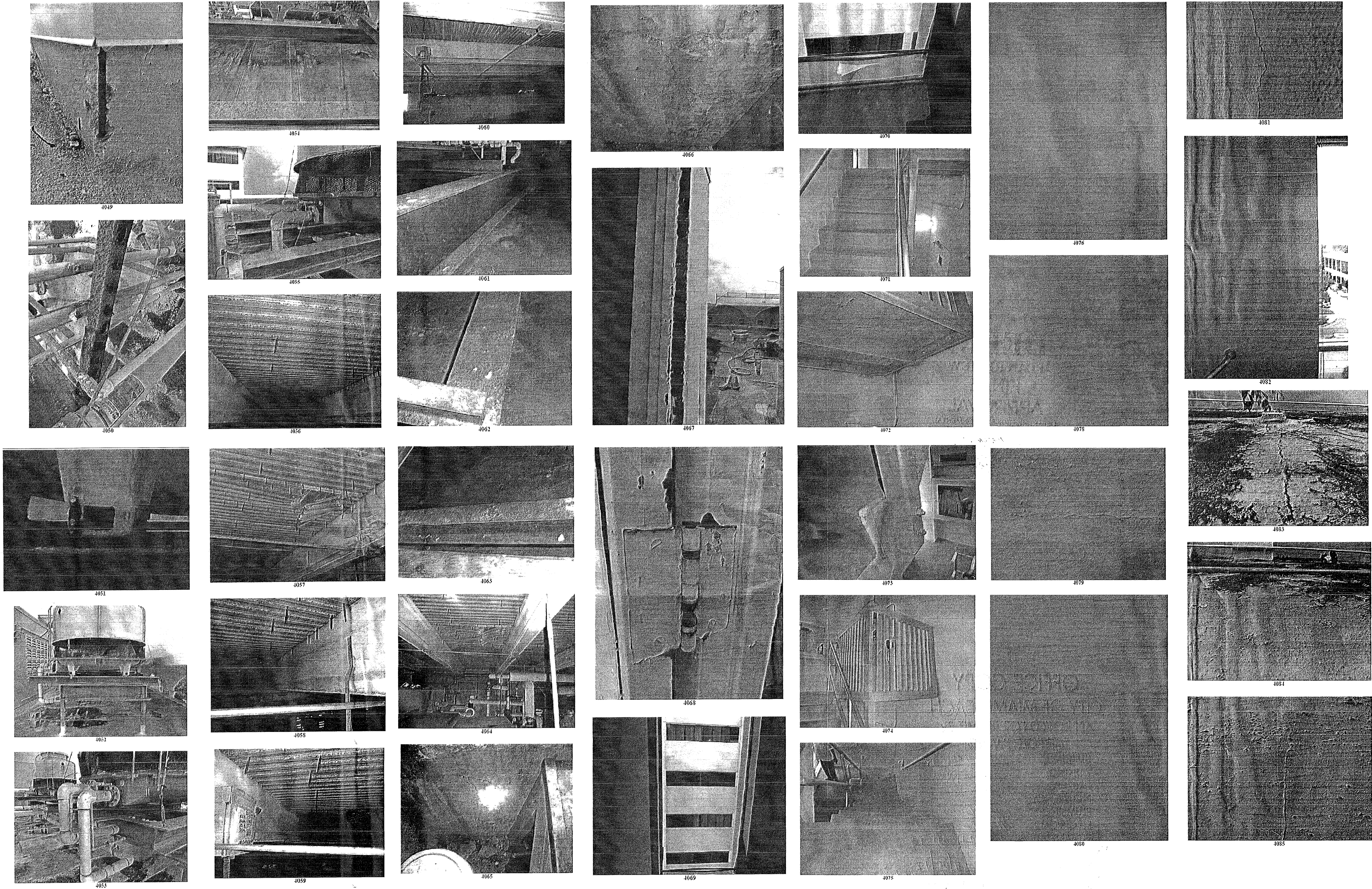


These Drawings And Drawings Are The Copyrighted Property Of Optimus Structural Design LLC, And May Not Be Reproduced Except With Specific Written Consent Of The Engineer. The Contractor Must Check And Verify All Dimensions Of The Job And Be Responsible For Same. Reporting Any Discrepancies To The Architect Or Engineer Before Commencing Work. Drawings Not To Be Sealed.



PICTURES OF EXISTING STRUCTURE TAKEN ON 06/28/2011 - 2 OF 2

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

NO.	DATE	REVISION
1	---	---

PROJECT TITLE:
**EXISTING OFFICE BUILDING
STRUCTURAL REPAIRS**

OWNER:
CABI 301 COMMERCIAL LLP
19950 W. COUNTRY CLUB DRIVE #900
AVENTURA, FL 33159

SITE ADDRESS:
301 ARTHUR GODFREY ROAD
MIAMI BEACH, FL 33139

OPTIMUS STRUCTURAL DESIGN LLC

C.A. No: 26217 61706
Tonya Homed PE
7650 NW 146 STREET, SUITE 305
MIAMI, FLORIDA 33016
Tel: 305.512.5850
Fax: 305.512.5851
E-mail: optimusd@bellsouth.net

SEAL/ STATE OF FLORIDA
T. Homed
06/28/11

DRAWN BY : J.P.
CHECKED BY : T.H.
DATE : 06-16-2011
SCALE : AS SHOWN
JOB NO. :
S-6.0
of

DERM
PLAN REVIEW
FINAL
APPROVAL

DEPARTMENT OF ENVIRONMENTAL
RESOURCES MANAGEMENT

CORE REVIEWER (PRINT): KMIA TUC
SIGNATURE: [Signature] DATE: 7-16-12
Minor structural repairs



Derm Number: 2012-0712-1018-4652
Contact Name: LEONEL VASQUEZ
Contact Phone: (305) 562-5905
Folio: 02-3222-001-0370
Project Name: CAB 301 COMMERCIAL
Date Received: 07/12/2012

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

BUILDING:	<u>[Signature]</u>
ZONING:	<u>[Signature]</u>
DRB/HPB:	<u>[Signature]</u>
CONCURRENCY:	<u>[Signature]</u>
PLUMBING:	<u>[Signature]</u>
ELECTRICAL:	<u>[Signature]</u>
MECHANICAL:	<u>[Signature]</u>
FIRE PREVENTION:	<u>[Signature]</u>
ENGINEERING:	<u>[Signature]</u>
PUBLIC WORKS:	<u>[Signature]</u>
STRUCTURAL:	<u>[Signature]</u>
ELEVATOR:	<u>[Signature]</u>

201200933

City of Miami Beach

Review Comments - Response Letter

4100 Pinetree Drive, Miami Beach, Florida

1: Building/ Accessibility Section B1300102

11/19/2012

Assigned to : MRA

Response

12/14/2012

Comment		Responsibility
6	Provide details for walls to be used, include UL (or other agency) number for fire rated walls, specifying materials to be used. Tenant Separation. Detail shown not same as UL assembly. (111912) SHOW A FULL DETAIL AS PER ASSEMBLY.	Arch
Response	Please see revised Sheet A-100 and attached full UL detail for Design No. U465.	TFG
7	Provide UL (or other agency) number and details for Fire Resistant Joint System to be used (FBC 713). See also 2004 UL Directory, pages 1145 thru 1562. Detail shown not same as UL assembly. (111912) SHOW A FULL DETAIL AS PER ASSEMBLY.	Arch
Response	Please see revised Sheet A-100 and attached full UL detail for Fire Rated Joint System No. HW-D-0003.	TFG

2: Electrical Section B1300102

11/5/2012

Assigned to : EJM

Response

12/14/2012

Comment		Responsibility
1	PROVIDE BRANCH CIRCUIT ID # IN FLOOR PLANS AND PNL SCH TO MATCH IT.	MEP
Response	Please see New Electrical Sheet E-100 for requested circuit and panel schedule information.	TFG

LATEST REVISION



Design No. U465
BXUV.U465

Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

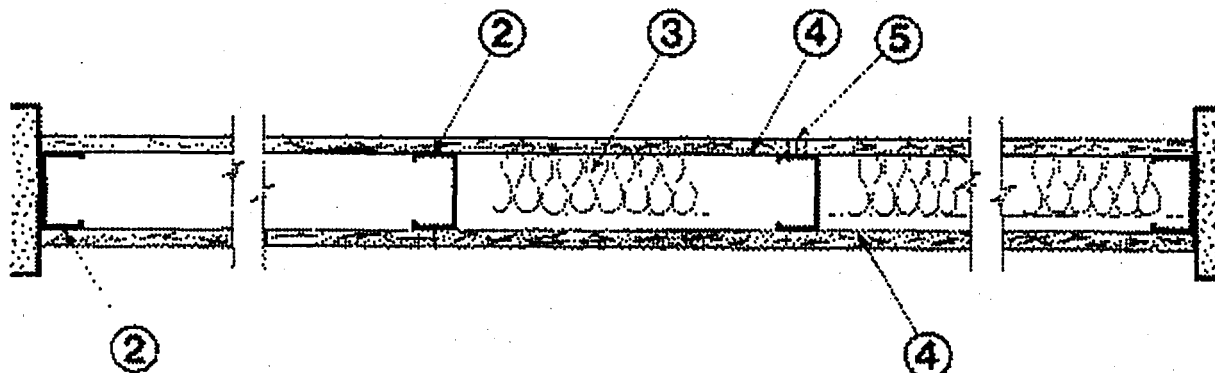
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U465

December 10, 2012

Nonbearing Wall Rating - 1 HR.



1. Floor and Ceiling Runners - (Not shown) - Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel; attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Framing Members* - Floor and Ceiling Runners - (Not shown) - As an alternate to Item 1 - Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC - Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC - Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME Framing System

14 DEC 2012

MS

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

~~1A. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

CRACO MFG INC — SmarterTrack20™, SmartTrack20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track

~~1B. Floor and Ceiling Runners~~ — (Not shown) — For use with Item 2C- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

~~1C. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA BUILDING SUPPLIES — ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

~~1D. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

~~1E. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

KIRII (HONG KONG) LTD — Type KIRII

~~1F. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STUDCO BUILDING SYSTEMS — CROCSTUD Track

~~1G. Floor and Ceiling Runners~~ — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

~~1H. Framing Members* - Floor and Ceiling Runners~~ — Not shown - In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

→ 2. **Steel Studs** — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

~~X~~ **Framing Members* — Steel Studs** — As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

~~X~~ **Framing Members* — Steel Studs** — Not shown - In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CRACO MFG INC — SmarterStud20™, SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

PHILLIPS MFG CO L L C — Viper20™

~~X~~ **Steel Studs** — (As an alternate to Item 2, For use with Item 4E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

~~X~~ **Framing Members* — Steel Studs** — As an alternate to Items 2 through 2C- For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

~~X~~ **Framing Members* — Steel Studs** — As an alternate to Items 2 through 2D- For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

100/3099

~~2E. Framing Members* - Steel Studs~~ — As an alternate to Items 2 through 2E- For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

KIRII (HONG KONG) LTD — Type KIRII

~~2F. Framing Members* - Steel Studs~~ — Not shown - In lieu of Item 2 through 2F - For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

~~2H. Framing Members* - Steel Studs~~ — Not shown - In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

TELLING INDUSTRIES L L C — Viper20™

→ 3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

See Batts and Blankets (BZIZ) category for names of Classified companies.

~~3A. Fiber, Sprayed*~~ — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

~~3B. Fiber, Sprayed*~~ — As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

~~3C. Fiber, Sprayed*~~ — As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Cebar-RL

~~3D. Batts and Blankets*~~ — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See Batts and Blankets (BZIZ) category for names of manufacturers.

Free
4099

→ **4. Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Item 6 (resilient channels) or 6A (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD — Type X

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CERTAINTED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type C, SilentFX, 5/8" East-Lite Type X.

CERTAINTED GYPSUM CANADA INC — Type C, Type X, Type Abuse-Resistant, 5/8" East-Lite Type X.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPF56, LS.

LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD, LGLLX.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSL

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS.

PANEL REY S A — Types GREX, PRX, RHX, MXX, ETX.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

TEMPLE-INLAND — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

~~**5. Gypsum Board***~~ — (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

CERTAINTED GYPSUM INC — Type X, Type C.

CERTAINTED GYPSUM CANADA INC — Type X, Type C.

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS.

LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, , USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

~~16. Gypsum Board*~~ — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CGC INC — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Types AR, IP-AR.

USG MEXICO S A DE C V — Types AR, IP-AR.

~~17. Gypsum Board*~~ — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.

TEMPLE-INLAND — GreenGlass Type X.

~~18. Gypsum Board*~~ — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. 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. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.

~~19. Gypsum Board*~~ — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with Item 6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

~~20. Gypsum Board*~~ — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP — Type RB-LBG

~~21. Gypsum Board*~~ — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX

~~22. Wall and Partition Facings and Accessories*~~ — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

SERIOUS ENERGY INC — Types QuietRock ES, QuietRock 527.

~~31. Gypsum Board*~~ — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.

UNITED STATES GYPSUM CO — Type SCX

~~32. Gypsum Board*~~ — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

~~33. Gypsum Board*~~ — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

~~34. Gypsum Board*~~ — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

~~35. Gypsum Board*~~ — (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Type FRPC, Type C

CERTAINTED GYPSUM CANADA INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC

LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-C/A

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C.

PANEL REY S A — Type PRC

TEMPLE-INLAND — Type TG-C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

→ 5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. ~~As an alternate, nominal 2-23/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.~~

6. **Resilient Channel** — (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.

7. **Steel Framing Members (Not Shown)*** — As an alternate to Item 3, furring channels and resilient sound isolation clip as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. **Framing Members*** — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-1 (2.75).

8. **Framing Members*** — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the stud with min. 1 in. long Type S-12 pan head steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

9. **Wall and Partition Facings and Accessories*** — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

SERIOUS ENERGY INC — Type QuietRock QR-510.

10. **Mineral and Fiber Board*** — (Optional, Not shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

HOMASOTE CO — Homasote Type 440-32

11. **Lead Batten Strips** — (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

12. **Lead Batten Strips** — (Not Shown, for use with Item 4J) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

13. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E)

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underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

~~X~~ **Lead Discs** — (Not Shown, for use with Item 4J) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".

~~X~~ **Adhesive** — Not Shown - (For use with Item 8) - Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

*Bearing the UL Classification Mark

Last Updated on 2012-12-10

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System No. HW-D-0003
XHBN.HW-D-0003
Joint Systems

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Joint Systems

See General Information for Joint Systems

System No. HW-D-0003

April 13, 2012

Assembly Rating — 1 and 2 Hr (See Item 2)

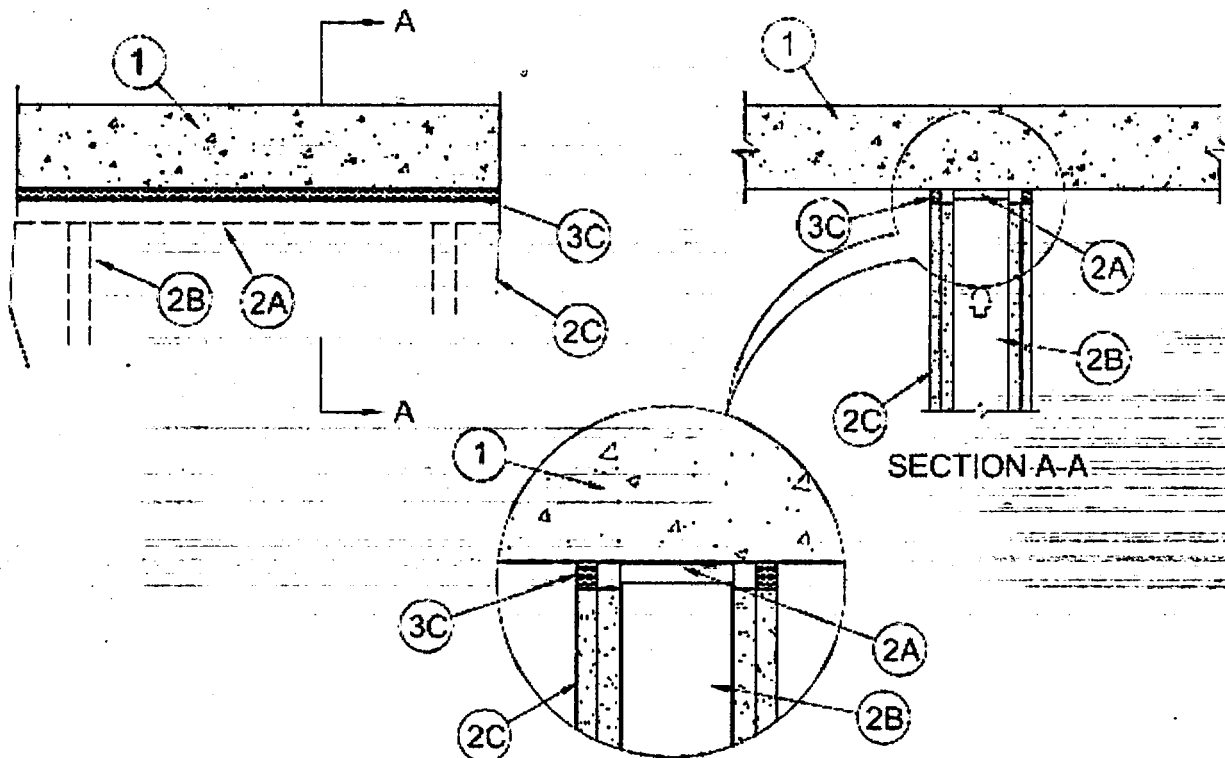
Leak Rating at Ambient — Less Than 1 CFM/Lin Ft

I Rating at 400°F — Less Than 1 CFM/Lin Ft

Joint Width — 3/4 in. Max

Class II Movement Capabilities — 25% Compression Only

14 DEC 2012



SECTION A-A

➔ **1 Floor Assembly** — Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete.

➔ **2 Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 Series or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

➔ *** Steel Floor and Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B) with min 1-1/4 in. (32 mm) to max 2 in. (51 mm) flanges. When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 1/2 in. to 3/4 in. (13 to 19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, ceiling runner is secured to concrete floor with steel fasteners spaced max 24 in. (610 mm) OC.

➔ *** Light Gauge Framing* - Slotted Ceiling Runner** — As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Items 2B). Ceiling runner secured to bottom of concrete floor with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

OLMAR SUPPLY INC — STT250, STT300

SCAFCO STEEL STUD MANUFACTURING CO

STEELER INC — Steeler Slotted Ceiling Runner

TELLING INDUSTRIES L L C — True-Action Deflection Track

X Light Gauge Framing* - Vertical Deflection Ceiling Runner — As an alternate to the ceiling runner in Item 2A, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner secured to floor with steel fasteners spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 3A) shall not be used.

THE STEEL NETWORK INC — VertiTrack VTD362, VTD400, VTD600 and VTD800

B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to floor runner and with top nesting in ceiling runner without attachment. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner with sheet metal screws located 1/2 in. (13 mm) below the bottom of the deflection channel. When slotted ceiling runner (Item 2A1) 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. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot.

X Light Gauge Framing* — Slotted Studs — Slotted steel stud to be used in conjunction with Light Gauge Framing* — Floor and Ceiling Runners (Item 2A1). Slotted steel studs to be min 3-1/2 in. (89 mm) wide. Slotted steel studs cut 1/2 in. to 3/4 in. (13 to 19 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 — Steeler Slotted Stud

C. Gypsum Board* — Gypsum board sheets installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr fire rated assemblies, respectively, to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the floor. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection channel.

The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall assembly in which it is installed.

3 Joint System Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 25 percent compression from its installed width. The joint system consists of the following:

X Deflection Channel — (Optional, Not Shown) - Max 2 in. (51 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel secured to bottom of concrete floor with steel fasteners spaced max 24 in. (610 mm) OC. The ceiling runner is installed within the deflection channel to maintain a 1/2 in. to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

X Forming Material — (Optional, Not Shown) - In 2 hr fire rated wall assemblies, polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fit into joint opening.

C. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within joint opening on both sides of wall, flush with both surfaces of wall. In 1 hr fire rated walls, bond breaker tape applied to ceiling channel (Item 2A, 2A1, 2A2 or 2A3) prior to installation of fill material.

SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant

*Bearing the UL Classification Mark

Last Updated on 2012-04-13

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Page Top

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12/13/2012 12

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GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH FBC 2010, ALL APPLICABLE LOCAL, STATE AND FEDERAL BUILDING CODES. PERMITS SHALL BE POSTED ON A VISIBLE PLACE AT ALL TIMES.
2. ALL WORK, MATERIALS AND EQUIPMENT UTILIZED IN THIS PROJECT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
3. ALL WORK FOR THIS PROJECT SHALL CONFORM TO STANDARDS PUBLISHED BY RECOGNIZED PROFESSIONAL AND INDUSTRY ORGANIZATIONS, INCLUDING BUT NOT LIMITED TO: ASTM, ASHRAE, CSI, ETC...
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND FAMILIARIZING HIMSELF WITH ALL EXISTING CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT LIMITED TO PRIVATE AND PUBLIC UTILITIES ON AND OFF SITE, ACCESS ROADS AND OTHER SUPPORT FACILITIES.
5. CONTRACTOR TO REMOVE, RELOCATE OR RE-ROUTE AS NECESSARY ELECTRICAL, WATER, GAS OR ANY OTHER UTILITY LINES ENCOUNTERED DURING CONSTRUCTION.
6. CONTRACTOR MUST NOTIFY ARCHITECT IMMEDIATELY OF ANY UNEXPECTED OR PREVIOUSLY UNKNOWN FIELD CONDITIONS, DISCREPANCIES IN THE DRAWINGS AND CONTRACT DOCUMENTS, ANY ERRORS OR OMISSIONS ON THE DRAWINGS OR IN THE FIELD PRIOR TO PROCEEDING WITH WORK OR SHOP FABRICATION.
7. CONTRACTOR SHALL NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING OF ANY DISCREPANCIES IN THE DRAWINGS BETWEEN DISCIPLINES (ARCHITECTURAL, STRUCTURAL, ELECTRICAL, ETC.) ANY DISCREPANCIES DISCUSSED AFTER BIDDING SHALL BE INTERPRETED AS IF IT WAS BASED ON THE MOST EXPENSIVE METHOD OF FINISH.
8. CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM OWNER OR ARCHITECT PRIOR TO ANY CHANGES OR DEVIATIONS FROM CONTRACT DOCUMENTS.
9. UNDER NO CIRCUMSTANCES WILL ASSUMPTIONS BY THE CONTRACTOR BE CONSIDERED THE DESIGN INTENT OR APPROVAL OF THE ARCHITECT OR ENGINEER UNLESS THERE IS WRITTEN APPROVAL BY ARCHITECT OR ENGINEER.
10. CONTRACTOR SHALL PREPARE AND MAINTAIN ALL CONSTRUCTION AND SURROUNDING AREAS FREE OF DEBRIS OR HAZARDOUS EQUIPMENT.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND / OR THE REPLACEMENT OF ANY EQUIPMENT DAMAGED DURING CONSTRUCTION OR CLEAN-UP. CONSTRUCTION PERSONNEL SHALL BE CONFINED TO THE LIMITS OF THE CONSTRUCTION AREA. ALL OSHA REGULATIONS FOR CONSTRUCTION AREAS SHALL BE STRICTLY FOLLOWED.
12. DRAWINGS SHALL NOT BE SCALED. DIMENSIONS SHALL GOVERN.
13. ALL DIMENSIONS ARE BASED ON NOMINAL MEMBER SIZES AND ARE GIVEN TO THE OUTSIDE FACE OF SUCH MEMBERS, NOT TO FACE OF FINISH MATERIAL UNLESS OTHERWISE NOTED ON DRAWINGS. ALL DIMENSIONS INDICATED FOR FAIR HOUSING ACT (FHA) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS ARE CLEAR FINISHED DIMENSIONS.
14. CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DWGS AND RECEIVE APPROVAL BEFORE COMMENCING FABRICATION AND/OR INSTALLATION OF ALL APPLICABLE ITEMS OF CONSTRUCTION. ALL SHOP DRAWING DIMENSIONS SHALL BE FIELD VERIFIED, REVIEWED AND APPROVED BY CONTRACTOR BEFORE SUBMITTAL. SHOP DRAWINGS WHICH ARE INCOMPLETE OR LACKING SUFFICIENT INFORMATION WILL BE RETURNED WITHOUT REVIEW.
15. CONTRACTOR SHALL BE AWARE THAT SPECIFIC FIRE-RATED SEPARATIONS WITHIN THE BUILDING'S CONSTRUCTION ARE REQUIRED BY CODE. THE USE OF SPECIFIC MATERIALS AND COMBINATIONS OF MATERIALS WITHIN FIRE-RATED ASSEMBLIES AS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS ARE FOR THE PURPOSE OF ACHIEVING THOSE REQUIRED SEPARATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT CHANGES IN MATERIAL THAT ARE REQUESTED BY OR MADE BY THE CONTRACTOR AND/OR ITS SUB-CONTRACTORS, FROM THOSE MATERIALS DRAWN OR SPECIFIED, DOES NOT IN ANY WAY AFFECT OR LESSEN THE REQUIRED FIRE-RATED CONSTRUCTION OR ASSEMBLY.
16. SPECIFIC HOURLY FIRE RATING INDICATED FOR CMU WALLS SHALL BE TAKEN AS THE MINIMUM ALLOWED.
17. ALL WOOD FRAMING, INCLUDING PLYWOOD, WHICH IS CONCEALED WITHIN WALLS OR CEILINGS, OR USED FOR THEIR SUPPORT, SHALL BE FIRE RETARDANT. PRESSURE-TREATED WOOD SHALL BE USED WHERE IN CONTACT WITH CONCRETE OR MASONRY.
18. ALL PIPING SHALL BE SLEEVED THROUGH SLAB. CONTRACTOR TO FULLY SEAL SPACE AROUND PIPES WITH A 2-HOUR UL APPROVED FIRE RESISTIVE "THERMAMBER" GLASS FIBER SAFING INSULATION AS MANUFACTURED BY U.S. GYPSUM CO. COMPLYING WITH ASTM E-119 OR APPROVED SIMILAR. PENETRATIONS THROUGH FIRE-RATED WALLS SHALL BE PROTECTED AS TO MAINTAIN THE FIRE-RATING OF SAID WALL.

19. ALL SHAFTS SHALL BE 2-HOUR FIRE-RATED (UNLESS OTHERWISE NOTED). UL DESIGN NO. U-505 OR APPROVED SIMILAR AND SHALL CONTINUE AS SUCH TO UNDERSIDE OF ROOF OR FLOOR STRUCTURAL DECKING. SEE WALL TYPE DETAILS FOR WALL DESIGN.
20. ALL WORK SHALL COMPLY WITH THE AMERICAN WITH DISABILITIES ACT (AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A117.1) DIMENSIONS INDICATED IN THE DRAWINGS ARE REQUIRED FINISHED CLEAR DIMENSIONS.
21. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE LOCATION OF ALL ACCESS PANELS AND DOORS TO ALLOW FOR PROPER EQUIPMENT ACCESSIBILITY, MAINTENANCE AND/OR OPERATION OF THE BUILDING SYSTEMS. THE OMISSION OF ANY ACCESS PANELS IN THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PROVIDING AND INSTALLING SUCH PANELS OR DOORS.
22. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT THE EXACT MOUNTING LOCATION OF ALL SWITCHES, WALL RECEPTACLES, PLUGS, THERMOSTATS AND OTHER WALL MOUNTED FIXTURES PRIOR TO INSTALLATION.
23. ALL INTERIOR AND EXTERIOR JOINTS BETWEEN DISSIMILAR MATERIALS OR FINISHES SHALL RECEIVE A BEAD OF CAULKING TO MATCH COLOR OF ADJACENT SURFACE. COORDINATE COLORS WITH ARCHITECT.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DEBRIS AND CONSTRUCTION MATERIAL FROM THE SITE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPERLY CLEANING ALL AREAS PRIOR TO FINAL ACCEPTANCE BY THE OWNER INCLUDING BUT NOT LIMITED TO WINDOWS, STOREFRONT, FLOORS, CARPETS, WALLS, DOORS, ETC.
25. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF AS-BUILT DRAWINGS. INFORMATION SHALL BE RECORDED BY CONTRACTOR AS CONSTRUCTION PROGRESSES. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER A COMPLETE SET OF AS-BUILT ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ALONG WITH THE WRITTEN GUARANTEES AND OPERATION AND MAINTENANCE MANUALS OF ALL EQUIPMENT.
26. CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN HIS BID, LABOR AND MATERIAL COSTS FOR ANY CHANGE ALTERATION OF ADJACENT AREAS TO BE DISTURBED DURING CONSTRUCTION SUCH AS, BUT NOT LIMITED TO, PAVING SIDEWALKS, STREETS, EXISTING TREES AND LANDSCAPING TO INSURE THEIR PROPER DRAINAGE AND RETURN THEM TO THEIR ORIGINAL FINISHED CONDITION.

LEGEND

- STUD PARTITION
- STUD PARTITION (1 HR FIRE RATED)
- STUD PARTITION (2 HR FIRE RATED)
- CONCRETE BLOCK
- CONCRETE COLUMN
- REINFORCED MASONRY
- PROPOSED CONTOUR
- EXISTING CONTOUR
- CENTER LINE
- WORK ABOVE OR BELOW
- MATCH LINE
- ANGLE
- CHANNEL
- PLATE / PROPERTY LINE
- CENTER LINE

MATERIALS

- STRUCTURAL CONCRETE
- CONCRETE MASONRY
- WOOD (FINISH)
- WOOD (ROUGH)
- GROUT
- INSULATION (FIBROUS)
- INSULATION (RIGID)
- STEEL
- GLASS
- ALUMINUM
- STUCCO OR PLASTER ON MTL. LATH
- GYPSUM BOARD
- MARBLE
- METAL - SMALL SCALE

SYMBOLS

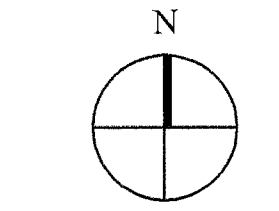
- NORTH ARROW
- COLUMN REFERENCE GRIDS
- WALL SECTION
- SHT. ON WHICH SECTION IS SHOWN
- BUILDING SECTION
- SHT. ON WHICH SECTION IS SHOWN
- DETAIL
- SHT. ON WHICH DETAIL IS SHOWN
- DETAIL
- SHT. ON WHICH DETAIL IS SHOWN

- WALL TYPE
- ELEVATION NO.
- DOOR NO.
- WINDOW TYPE
- ROOM NO.
- BREAK OR CUT LINE
- ELEVATION NGVD RELATED
- TYPICAL UNIT NUMBER
- NUMBER ON FLOOR PLAN
- FIN. FL. ELEVATION T.O.S.

ABBREVIATIONS

A. ANCHOR	D. DBL.	DY. DRYER	GA. GAUGE	L. / LIN. LAM.	LINEN LAMINATED	P.A.D. PARKING AREA DRAIN	TEL. TEMP.	TELEPHONE
A/C. AIR COND.	D.D. DECK DRAIN	DRY. DOUBLE	GWB. GYPSUM WALLBOARD	L.A.V. LAVATORY	LAV. LAVATORY	PTN. PARTITION	TEMP. TOP OF SLAB	TEMP. TOP OF WALL
ACQ. ACQUST.	D.F. DIAM. / DIAM.	DECK. DECK	GYP. BD. GYPSUM BOARD	L.V. LEVEL	LOU. POINT / LIGHT POLE	PL. PLATE / PLANTER	T.O.W. TOP OF WALL	TYP. TYPICAL
AF. ABOVE FINISH FLOOR	DIA. / DIAM.	DIAM. DIAMETER	GL. GALV.	GL. GALVANIZED STEEL	GL. GALVANIZED STEEL	PLYWD. PLYWOOD	TYP. TYPICAL	TYP. TYPICAL
AL / ALUM. ALUMINUM	DIM. DIMENSION	DRAWING	GL. GLASS	GL. GLASS	GL. GLASS	P.NL. PANEL	U.ON. UNLESS OTHERWISE NOTED	U.ON. UNLESS OTHERWISE NOTED
ANOD. ANODIZED	DET./DTL. DETAIL	DRAWING	GL. GLASS	GL. GLASS	GL. GLASS	PLAM. PLASTER LAMINATE	VAN. VANITY	VAN. VANITY
@. AT	DUG. DUG	DRAWING	GL. GLASS	GL. GLASS	GL. GLASS	P.P. PRESSURE TREATED POWER POLE	VCT. VERTICAL COMPOSITION TILE	VCT. VERTICAL COMPOSITION TILE
BD. BOARD	E.A. EACH	EACH	GL. GLASS	GL. GLASS	GL. GLASS	RE. REFER TO	VERT. VERTICAL	VERT. VERTICAL
BLDG. BUILDING	E.E. ELECTRICAL	ELECTRICAL	GL. GLASS	GL. GLASS	GL. GLASS	REF. REFRIGERATOR	VEST. VESTIBULE	VEST. VESTIBULE
BLK. BLOCK	ELEV. ELEVATION	ELEVATION	GL. GLASS	GL. GLASS	GL. GLASS	REIN. REINFORCING	VERY. IN FIELD	VERY. IN FIELD
BLKG. BLOCKING	E.Q. EQUAL	EQUAL	GL. GLASS	GL. GLASS	GL. GLASS	REQD. REQUIRED	W. WASHER	W. WASHER
BM. BENCH MARK	E.S.P. EXHAUST	EXHAUST	GL. GLASS	GL. GLASS	GL. GLASS	REV. REVERSE	WD. WOOD	WD. WOOD
CAB. CABINET	EXST. EXISTING	EXISTING	GL. GLASS	GL. GLASS	GL. GLASS	RECESSED FIRE EXT. CAB.	W/D. WASH / DRYER	W/D. WASH / DRYER
CEM. CEMENT	EXT. EXTERIOR	EXTERIOR	GL. GLASS	GL. GLASS	GL. GLASS	RM. ROOM	W.F. WATER FOUNTAIN	W.F. WATER FOUNTAIN
CER. CERAMIC	EUC. ELECTRIC WATER COOLER	ELECTRIC WATER COOLER	GL. GLASS	GL. GLASS	GL. GLASS	RD. ROOF DRAIN	W.P. WORKING POINT	W.P. WORKING POINT
CJ. CONTROL JOINT	FD. FLOOR DRAIN	FLOOR DRAIN	GL. GLASS	GL. GLASS	GL. GLASS			
CL/CLO. CLOSET	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
CLG/CLNG. CEILING	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
COL. COLUMN	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
CMU. CONCRETE MASONRY UNIT	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
CONC. CONCRETE	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
CONT. CONTINUOUS	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
CONTR. CONTRACTOR	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			
COVERG. COVERING	FE. FIRE EXTINGUISHER	FIRE EXTINGUISHER	GL. GLASS	GL. GLASS	GL. GLASS			

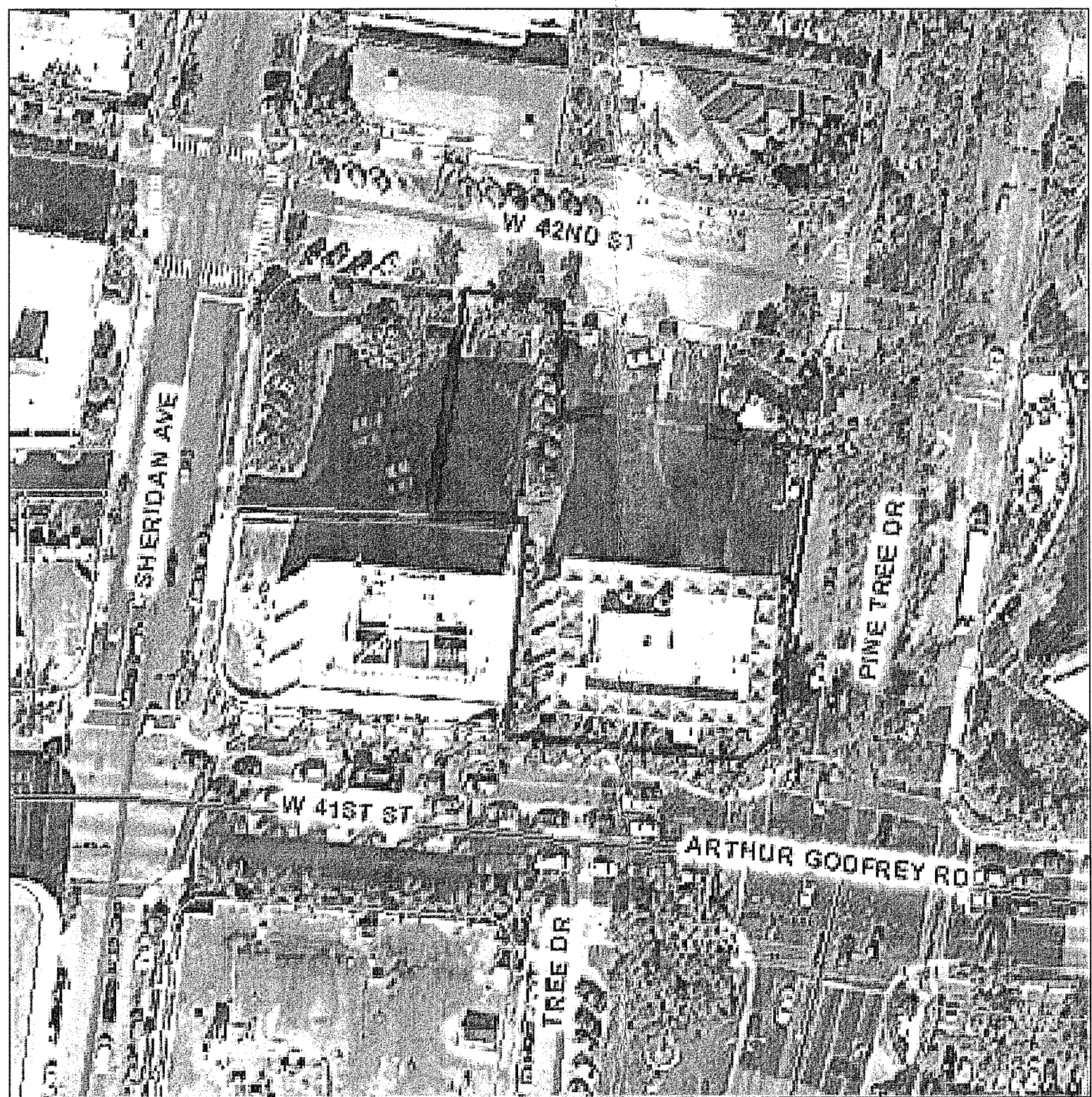
GA. GAUGE	L. / LIN. LAM.	LINEN LAMINATED	P.A.D. PARKING AREA DRAIN	TEL. TEMP.	TELEPHONE
GWB. GYPSUM WALLBOARD	L.A.V. LAVATORY	LAV. LAVATORY	PTN. PARTITION	TEMP. TOP OF SLAB	TEMP. TOP OF WALL
GYP. BD. GYPSUM BOARD	L.V. LEVEL	LOU. POINT / LIGHT POLE	PL. PLATE / PLANTER	T.O.W. TOP OF WALL	TYP. TYPICAL
GL. GALV. GALVANIZED STEEL	GL. GALVANIZED STEEL	GL. GALVANIZED STEEL	PLYWD. PLYWOOD	TYP. TYPICAL	TYP. TYPICAL
GL. GLASS	GL. GLASS	GL. GLASS	P.NL. PANEL	U.ON. UNLESS OTHERWISE NOTED	U.ON. UNLESS OTHERWISE NOTED
GL. GLASS	GL. GLASS	GL. GLASS	PLAM. PLASTER LAMINATE	VAN. VANITY	VAN. VANITY
GL. GLASS	GL. GLASS	GL. GLASS	P.P. PRESSURE TREATED POWER POLE	VCT. VERTICAL COMPOSITION TILE	VCT. VERTICAL COMPOSITION TILE
GL. GLASS	GL. GLASS	GL. GLASS	RE. REFER TO	VERT. VERTICAL	VERT. VERTICAL
GL. GLASS	GL. GLASS	GL. GLASS	REF. REFRIGERATOR	VEST. VESTIBULE	VEST. VESTIBULE
GL. GLASS	GL. GLASS	GL. GLASS	REIN. REINFORCING	VERY. IN FIELD	VERY. IN FIELD
GL. GLASS	GL. GLASS	GL. GLASS	REQD. REQUIRED	W. WASHER	W. WASHER
GL. GLASS	GL. GLASS	GL. GLASS	REV. REVERSE	WD. WOOD	WD. WOOD
GL. GLASS	GL. GLASS	GL. GLASS	RECESSED FIRE EXT. CAB.	W/D. WASH / DRYER	W/D. WASH / DRYER
GL. GLASS	GL. GLASS	GL. GLASS	RM. ROOM	W.F. WATER FOUNTAIN	W.F. WATER FOUNTAIN
GL. GLASS	GL. GLASS	GL. GLASS	RD. ROOF DRAIN	W.P. WORKING POINT	W.P. WORKING POINT



LOCATION PLAN

ELEVATION +0'-0"

SCALE: 1"=20'-0"



PROJECT/ CODE DATA

- PROJECT ADDRESS : 4100 PINETREE DRIVE, MIAMI BEACH, FLORIDA
- PROJECT SCOPE AREA : +/- 81 SF.
- OCCUPANCY GROUP : GROUP B - BUSINESS
- BUILDING CODES : 2010 FLORIDA BUILDING CODE - EXISTING, 2010 FLORIDA BUILDING CODE - BUILDING, AND ALL AMENDMENTS AND ADDITIONS TO THE ABOVE.
- SCOPE OF WORK/ PROJECT NARRATIVE: ALTERATION LEVEL 2 OF EXISTING OFFICE SPACE, AS PER FBC(E) 2010, SECTION 404.1 - APPROX. 81 SF.
- THE OCCUPANCY CLASSIFICATION WILL BE BUSINESS-GROUP B, AND THE USE WILL BE OFFICE.
- THE SCOPE OF WORK IS TO REMOVE EXISTING NON-CONFORMING, NON-PERMITTED DEMISING WALL, THEN PROVIDE NEW CODE CONFORMING DEMISING WALL TO SEPARATE OFFICE TENANT SPACE INTO TWO SMALLER SPACES.

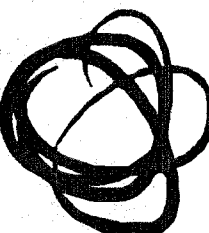
DRAWING INDEX

A-000	COVER SHEET/ PROJECT INFO
A-100	PLANS AND SECTION
A-200	DETAILS
E-100	ELECTRICAL PLAN, SCHEDULE & NOTES

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



Derm Number: 2013-0110-1126-4951
Contact Name: FABIO OLIVER
Contact Phone: (954) 980-3507
Folio: 02-3222-001-0370
Project Name: DEMISING WALL
Date Received: 01/10/2013



THE FULLERTON GROUP
ARCHITECTURE
INTERIOR DESIGN
LAND PLANNING
DEVELOPMENT CONSULTING

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New Demising Partition - Suite 400

4100 PINETREE DRIVE
MIAMI BEACH, FLORIDA

DEVELOPER

CABI DEVELOPERS
19950 W. Country Club Drive, Suite 900
Aventura, Florida 33186
TEL: (305) 466-1810 FAX: (305) 466-1877

3	PERMIT COMMENTS	12.14.12
2	PERMIT COMMENTS	10.20.12
1	ISSUED FOR PERMIT	9.24.12
NO.	DESCRIPTION	DATE
DRAWING HISTORY:		

PROJECT NUMBER: 21117.00

REGISTRATION: AA 26002058

JOHN N. FULLERTON - AR 4743



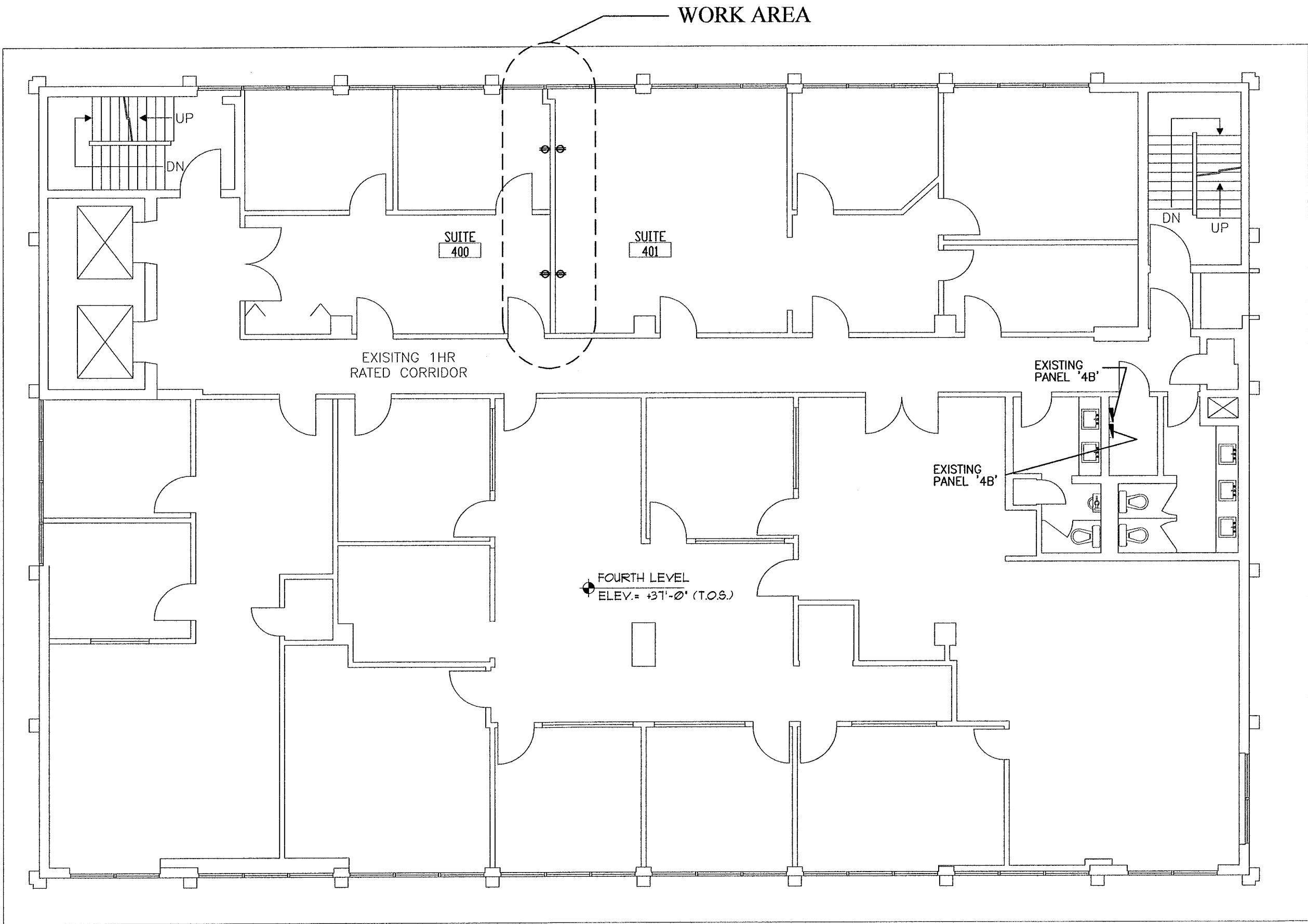
SHEET NUMBER:

A-000

ISSUED FOR PERMIT - SEPTEMBER 24th, 2012

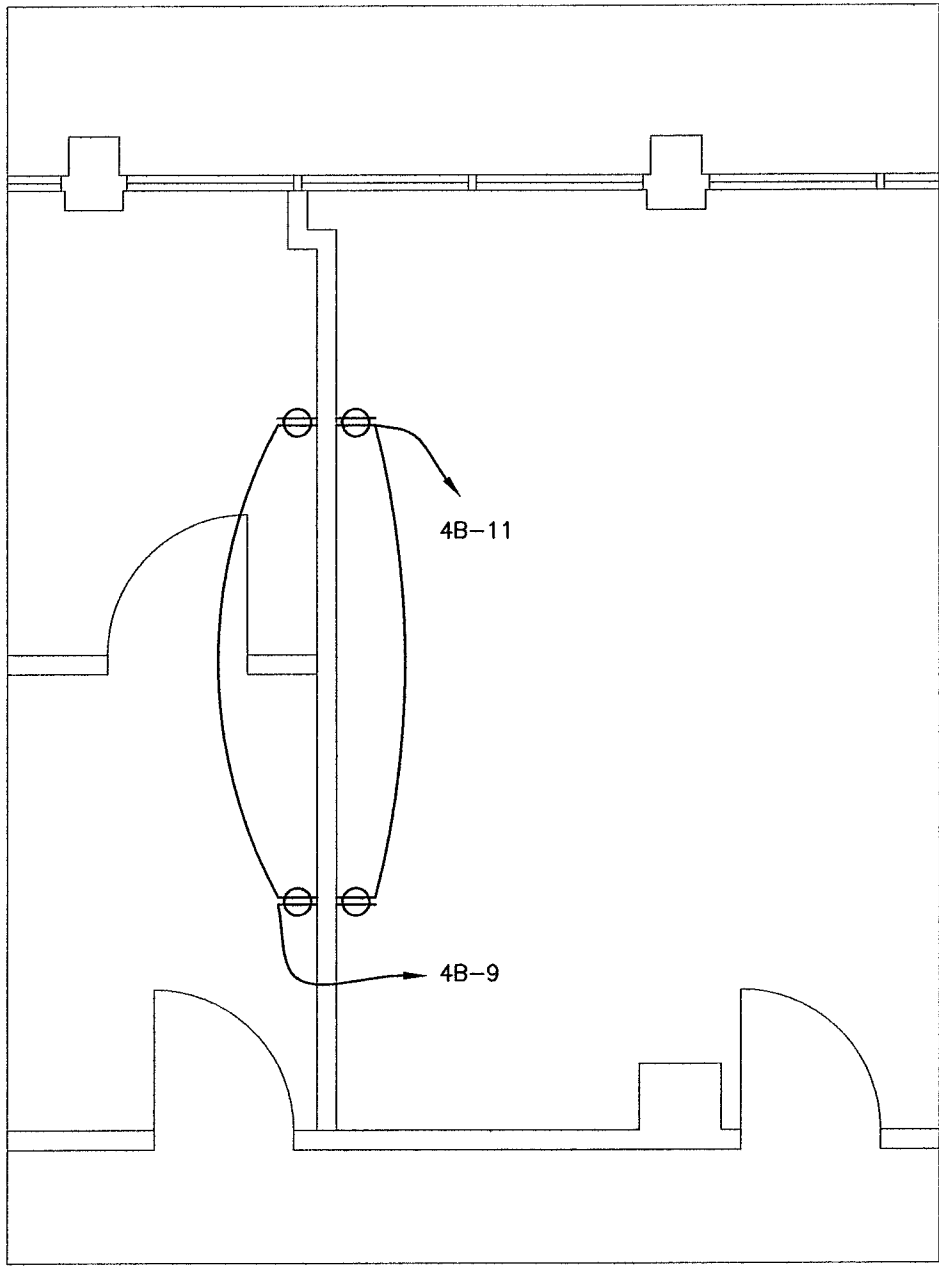
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EXISTING 4th FLOOR PLAN

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



POWER PLAN

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

SERVICE: 3PH, 4W, 60HZ VOLTAGE: 120 / 208 V.										TYPE: GE MOD: EXISTING MAIN BUS: 225 AMP MANS: 225 AMPS									
EXISTING PANEL "4B"																			
DEMAND LOAD VA	NO DEM. LOAD VA	CONDUIT SIZE	WIRE SIZE	TRIP AMP	POLES	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	POLES	TRIP AMP	WIRE SIZE	CONDUIT	NO DEM. LOAD VA	DEMAND LOAD VA			
0	1120	1/2	12	20	1	OFFICE LIGHT NE SIDE 404	-1	X	2	OFFICE LIGHT NE SIDE 404	-1	20	12	1/2	1120	0			
0	0				1	SPARE	-3	X	4	OFFICE LIGHT NE SIDE 404	-1	20	12	1/2	1120	0			
0	1120	1/2	12	20	1	OFFICE LIGHT NE SIDE	-5	X	6	OFFICE LIGHT NE SIDE	-1	20	12	1/2	1120	0			
0	1120	1/2	12	20	1	OFFICE LIGHT NE SIDE	-7	X	8	OFFICE LIGHT NE SIDE	-1	20	12	1/2	1120	0			
360	0	1/2	12	20	1	NEW OFFICE REC 400	-9	X	10	REC NORTH INSIDE WALL	-1	20	12	1/2	0	540			
360	0	1/2	12	20	1	NEW OFFICE REC 401	-11	X	12	REC NORTH INSIDE WALL	-1	20	12	1/2	0	540			
0	0	1/2	12	20	1	SPARE	-13	X	14	GEN REC	-1	20	12	1/2	0	720			
720	0	1/2	12	20	1	REC NORTH OUTSIDE WALL	-15	X	16	FIREALARM	-1	20	12	1/2	200	0			
720	0	1/2	12	20	1	MAXOM OFFICE REC	-17	X	18	SPARE	-1	20				0			
0	693	1/2	12	20	3	A/C	-19	X	20	SUBPANEL 4B1	-3	100	12	1/2	1200	1680			
0	693						-21	X	22						1200	1680			
0	639						-23	X	24						1200	1680			
540	0	1/2	12	20	1	REC NORTH OFFICE	-25	X	26	GEN REC OFFICE	-1	20	12	1/2	0	360			
540	0	1/2	12	20	1	REC NORTH OFFICE	-27	X	28	GEN REC OFFICE	-1	20	12	1/2	0	360			
540	0	1/2	12	20	1	GEN REC OFFICE	-29	X	30	COURT OFF REC	-1	20	12	1/2	0	540			
540	0	1/2	12	20	1	GEN REC OFFICE	-31	X	32	COURT OFF REC	-1	20	12	1/2	0	540			
540	0	1/2	12	20	1	GEN REC OFFICE	-33	X	34	WOMAN RESTROOM	-1	20	12	1/2	0	360			
540	0	1/2	12	20	1	GEN REC OFFICE	-35	X	36	MENS RESTROOM	-1	20	12	1/2	0	360			
540	0	1/2	12	20	1	GEN REC OFFICE	-37	X	38	FLOOR REC OFFICE	-1	20	12	1/2	0	540			
0	0	1/2	12	20	1	SPARE	-39	X	40	FLOOR REC OFFICE	-1	20	12	1/2	0	540			
0	0	1/2	12	20	1	SPARE	-41	X	42	FLOOR REC OFFICE	-1	20	12	1/2	0	540			
5940 5385 = SUB - TOTALS						D.F. = 0.50						SUB - TOTALS = 8280 10980							
13480 VA : TOTAL DEMAND LOAD (2)						LOAD PER PHASE						TOTAL PANEL AMPS = VA / VOLT = 86 AMP							
13665 VA : TOTAL NO DEMAND LOAD						11833 VA PHASE "A"													
3217 VA : 25% CONTINUOUS LIGHT						8863 VA PHASE "B"													
520 VA : 25% LARGEST MOTOR						9899 VA PHASE "C"													
30862 TOTAL LOAD																			
										1. PROVIDE GROUNDING BAR KIT									
										2. APPLYING DEMAND AS PER REC TABLE 220-44.									

EXISTING ELECTRICAL ROOM
FOURTH FLOOR

EXISTING
PANEL "B4"
120/208V
225A, 3ø
MB 225A

EXISTING
4#4/OTHWN + 1#6 GND IN 2"C

EXISTING ELECTRICAL ROOM
GROUND FLOOR

EXISTING
MDP
120/208V
1200A, 3ø
225A

EXISTING PARTIAL ELECTRICAL RISER
N.T.S.

LEGEND
⊕ DUPLEX RECEPTACLE @ 18" AFF, U.O.N.
■ ELECTRIC PANEL

ELECTRICAL SPECIFICATIONS

PART 1- GENERAL

A.- Overall Installation: The installation shall comply with the Latest edition of Electrical Code (NEC), the Florida Building Code (FBC), and any other applicable Federal, State and Local codes.

B.- Conductor Calculations: Conductor calculations are based on 75 °C.

1. General: The General and Special Conditions and Requirements of the Contract and Specifications as well as plans and specifications of other disciplines and trades shall be a part of the work hereby specified. These specifications and accompanying plans are intended to provide for the complete furnishing and installation of the electrical systems. To provide means to furnish and install.

2. Compliance: Workmanship, materials and installation shall be in strict accordance with the applicable edition of the NEC, NFPA, NEMA, ASTM, OSHA, IRS health agencies, and other applicable national, state, and local codes and pertaining regulations established by the ruling authority having jurisdiction. Contractors shall also meet the requirements of other standards where such requirements are more strict than those standards cited above.

3. Workmanship: All work shall be performed by contractors licensed in their respective discipline. Work shall be done in a first class manner, fully operative, and to the acceptance of the Architect and the Engineers. Contractor shall provide for all necessary labor and material required for the completion of the work including but not limited to related work such as connection of existing systems, excavations and back filling.

4. Materials: Contractor shall provide all new materials of American manufacture, bearing the Underwriter's Laboratory (UL) label as applicable. Materials shall be new, suitable for the application and above standard quality normally used for the purpose as called for on plans. Supplemental materials, products and components necessary to comply with the intent of the Contract drawings and/or specifications, but not noted or specified on these sections, shall be provided by the Contractor as required for the completion of the work at no additional cost to the Owner. Contractor shall be responsible for provisions and coordination of delivery of materials. Equipment marked during shipment or installation shall be touched up and refinished to factory finish, replaced where not acceptable.

5.- Permits and Insurance: Contractor shall secure and pay for all permits, fees, taxes, inspections, tests, fines and other items as required for the installation of the complete electrical systems as outlined herein and shown on plans. Contractor shall provide all required insurance for protection against public liability and property damage for the duration of the work.

6.- Existing conditions: Before bidding, the contractor shall visit the job site and ascertain all existing conditions which will affect his work. Failure to do so will not be accepted as a reason for requesting extra pay where the existing conditions result in extra materials or labor. Any existing conditions found by the Contractor which will adversely affect the work shall be immediately brought to the attention of the Architect/Engineer. Correction of any defects shall be completely without additional charge and shall include replacements or repair of any other phase of the installation which may have been damaged thereby.

7.- Plans: Drawings are basically diagrams intended to depict approximately equipment locations and arrangements, not to show every minor detail. Plans shall not be scaled to determine exact location and dimensions.

8.- Interference: The Contractor shall coordinate his work with other trades so that interference with existing conditions, conduits, piping, equipment, architectural and structural members be avoided.

9.- Substitutions: Products and materials called out by trade name and/or catalog numbers establish a standard of quality, appearance, performance and dimension. Contractors shall base his proposal on those items as they shall be considered as a standard basis of bidding. Requests for substitution shall be submitted in writing to the Architect/Engineer, demonstrating that product is of comparable and basic design, construction, standards and warranties, dimensions to fit without change, and does not cause extra work to other trades. Contractor shall be responsible for providing equality of substitution: Architect/Engineer will, under no circumstances, be required to prove such item is or is not of equal quality to the specified item. Architect/Engineer expenses incurred due to Contractor's requested revisions or substitutions shall be paid by the Contractor.

10.-Record Drawings: Maintain a complete set of prints for indicating all changes. Use colored pens to mark changes at the time of execution and deliver the set to the Architect/Engineer upon completion. Contractor shall stamp "As Built" on prints and plans, date and sign in ink.

11.-The Contractor shall, and hereby does, warrant all labor and material free from defects for a period of one (1) year from the date of acceptance or beneficial use by the owner, whichever is earlier and shall, upon notification during this period promptly repair or replace any defective items or material or equipment at no cost to the owner.

ALL NEW ELECTRICAL PAGE

SCOPE OF WORK:

1- THE SCOPE OF WORK IS ADD NEW RECEPTABLES TO NEW OFFICE WALL
2- PANEL 4B IS EXISTING AND WE USE 2 SPARE BREAKERS POSITION TO FEED THE NEW RECEPTABLES.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



GUIROLA & ASSOCIATES P.A.
CONSULTING ENGINEERS

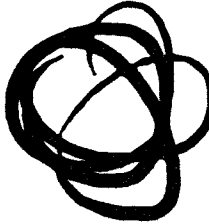


P.E. No 57468
David Guirola
Electrical Engineer

1150 NW 72nd AVE, S-451
MIAMI, FLORIDA 33156
P.H. (305) 513-9865
EMAIL: GUIRO5@AOL.COM

ISSUED FOR PERMIT - SEPTEMBER 24th, 2012

AA 26002058



THE FULLERTON GROUP
ARCHITECTURE DEVELOPMENT CONSULTING INTERIOR DESIGN LAND PLANNING

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www.fullerton.com | info@fullerton.com

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DEVELOPER

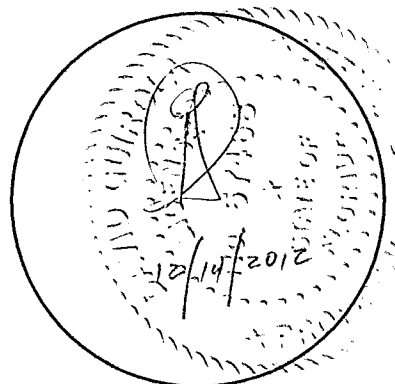
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2	PERMIT COMMENTS	12/14/12
NO.	DESCRIPTION:	DATE:
DRAWING HISTORY:		

PROJECT NUMBER: 21117.00

REGISTRATION:

☐ DAVID GUIROLA PE # 57468



SHEET NUMBER:

E-1