GENERAL SPECIFICATIONS

- ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN FIRST CLASS WORKMANLIKE MANNER. ANY MATERIALS INSTALLED, WHICH SHALL NOT PRESENT AN ORDERLY AND REASONABLY NEAT OR WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE ARCHITECT/ENGINEER AT THE CONTRACTOR'S EXPENCE.
- 2. NEW DUCTWORK SHOWN IS SCHEMATIC. PLAN ROUTING OF DUCTWORK AND COORDINATE LOCATION OF DUCTS AFTER INSPECTION OF EXISTING CONDITIONS AND BEFORE FABRICATION. SLIGHT VARIATION OF ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED AND IS EXPRESSLY INCLUDED AS PART OF THE WORK WHENEVER REQUIRED, AT NO ADDITIONAL COST TO OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY EXCUSE HIM OR SHE FROM THE OBLIGATIONS AND RESPONSIBILITIES OF THIS CONTRACT.
- 3. ANY CONFLICTS OR DISCREPANCIES ON THESE DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE BIDDING PERIOD FOR RESOLUTION. OTHERWISE, ALL SUCH CONFLICTS OR DISCREPANCIES SHALL BE RESOLVED AT THE CONTRACTOR'S EXPENSE.
- 4. ALL CONTROL WIRING SHALL BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH ALL OTHER TRADES FOR CLEARANCES AND USE OF AVAILABLE SPACE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS, FEES, INSPECTIONS AND TEST.
- 7. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE MECHANICAL SYSTEM, READY FOR CONTINUOUS AND SATISFACTORY OPERATION BY THE OWNER.
- 8. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, INCLUDING ALL LOCAL RULES AND ORDINANCES.
- 9. PROVIDE MANUAL VOLUME DAMPERS AT ALL DUCT TAKE-OFFS AND DIFFUSERS. DAMPERS SHALL BE MANUFACTURED ACCORDING TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION AND SHALL HAVE LOCKING QUADRANT WITH WING NUT.
- 10. DUCTWORK MATERIAL

 SUPPLY AIR DUCTWORK SHALL BE CONSTRUCTED OF
 FIVE POUNDS DENSITY 1-1/2' THICK GLASSFIBER
 DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE
 WITH SMACNA'S LOW PRESURE DUCT MANUAL. ALL
 DUCT JOINTS SHALL BE SEALED AND TAPED.
- 11. ALL EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL, INSTALLED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE: FIRST EDITION.
- 12. FLEXIBLE DUCTS SHALL BE UL LISTED CLASS 1 AIR DUCT. THERMAFLEX TYPE M-KE OR EQUAL. DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA "HAVE DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION.
- 13. DUCTWORK DIMENSIONS INDICATED, ARE INSIDE CLEAR AIR PASSAGE.
 ALL EQUIPMENT AND MATERIAL SHALL BE WARRENTIED FOR ONE YEAR
 AFTER DATE OF ACCEPTANCE BY THE OWNER.
- 14. AIR DISTRIBUTION DEVICES SHALL BE OF ALL ALUMINUM CONSTRUCTION WITH TYPE #25 FINISH. ALL DIFFUSERS, REGISTERS AND GRILLS SHALL HAVE OPPOSED BLADE DAMPERS IN THROAT OR NECK. MANUFACTURER SHALL BE METALAIR OR PRE-APPROVED EQUAL.
- 15. REFIRGERANT LINES SHALL BE TYPE "L" SOFT DRAWIN, COPPER TUBING DEHYDRATED FOR REFRIGERANT USE. SIZE SHALL BE SHOWN ON DRAWINGS OR AS PER MANUFACTURERS RECOMMENDATION.
- 16. REFRIGERANT LINE INSULATION SHALL BE 1" FOAM PLASTIC INSULATION (R-4),
 FIRE RETARDENT TYPE. SEAL JOINTS WITH MANUFACTURERES APPROVED ADHESIVE.
 INSULATION SHALL HAVE A EXTERNAL PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED
- 17. THE INSIDE OF ALL VISIBLE DIFFUSERS SHALL BE PAINTED BLACK.
- 18. A/C/ CONTRACTOR TO INCLUDE 1 YEAR MAINTENANCE OF THE SYSTEM.
- 19. DRYER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET
 METAL MINIMUM DUCT THICKNESS OF 0.016 INCHES (26 GAGE), INSTALLED IN ACCORDANCE WITH SMACNA "HVAC DUCT
 CONSTRUCTION STANDARDS METAL AND FLEXIBLE: FIRST EDITION.
- 20. PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST DUCTWORK.
- 21. CONDENSATE RISERS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC. CONDENSATE LINES INSIDE OF AC CLOSET SHALL BE CONSTRUCTED OF TYPE "L" COPPER
- 22. THE CONTRACTOR SHALL CAREFULLY REVIEW AND VERIFY THE MECHANICAL DRAWINGS AND SPECIFICATIONS IN ADDITION TO OTHER RELATED TRADES AND SECTIONS. SHOULD ANY DISCREPANCIES BE FOUND THE ARCHITECT/ENGINEER MUST BE NOTIFIED. THIS COORDINATION SHALL BE DONE PRIOR TO SUBMITTING THE BID.

DOUBLE LINE	A/C SYMBOL LEGEND	SINGLE LINE
20 × 12	DUCT (1ST. DIMENSION, SIDE SHOWN; 2ND. DIMENSION, SIDE NOT SHOWN)	/
	ACOUSTICAL LINING (DUCT DIMENSIONS FOR NET FREE AREA)	
	DIRECTION OF FLOW	
	DUCT SECTION UP OR DOWN (SUPPLY)	
	DUCT SECTION UP OR DOWN (EXHAUST OR RETURN)	
R	INCLINE RISE (R) OR DROP (D) ARROW IN DIRECTION OF AIR FLOW.	 /
	TRANSITIONS	
ts the second se	STANDARD BRANCH FOR SUPPLY & RETURN (NO SPLITER)	
	SPLITTER DAMPER	
	VOLUME DAMPER (MANUAL OPERATION)	
SEC. MOD.	AUTOMATIC DAMPERS (MOTOR OPERATED)	
AD AP	ACCESS DOOR (AD) ACCESS PANEL (AP)	AD AP
AP	FIRE DAMPER IN VERTICAL DUCT / IN HORIZONTAL DUCT	
AD MD	SMOKE DAMPER & RADIANT DAMPER	
	DYNAMIC MOTORIZED DAMPER	/ / /
BDD	BACK DRAFT DAMPER	FDD /
	CEILING DIFFUSER, SQUARE	\boxtimes
 [] 	CEILING DIFFUSER, RECTANGULAR	
23	CEILING DIFFUSER, ROUND	
2	SMOKE DETECTOR, DUCT MOUNTED	<u>\sqrt{\sq}}}}}}}}}}}}} \simptintiles \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}} \signtiles \sqrt{\sq}}}}}}}}}} \sqitiles \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \simptinites \sqrt{\sqrt{\sq}}}}}}} \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{</u>
	EXHAUST FAN, CEILING MOUNTED	
	RETURN AIR GRILLE, CEILING MOUNTED	P
T	THERMOSTAT	T
H	HUMIDISTAT	H
C	CO ² CENSOR	C
EF-X	CENTRIFUGAL EXHAUST FAN ROOF MOUNTED	EF-X

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

1. CONTRACTOR TO PROVIDE ROUND TO SQUARE NECK TRANSITION.

2. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS WITH CEILINGS.

AIR DISTRIBUTION SCHEDULE								
SYM USE TYPE ACCESSORIES NECK SIZE CFM MFR & MODEL NO								
A	SUPPLY	GRILLE	OBD	8x4 10x6 12x8 16x8	0-100 101-200 201-300 301-400	METAL AIRE V4002-1		
NOTES:								

WEXLER RESIDENCE 300 SOUTHPOINTE DR. 4304

ANA STUDIO ARCHITECTURE, PC

ANA R.ESKREIS,RA

280 RIVERSIDE DRIVE (8H), NEW YORK, N.Y.10025 +1516.641.5416 +33 (6) 43 86 24 55

ANASTUDIO2013@GMAIL.COM

www.FRENCHDIBS.com

MIAMI BEACH, FL. 33139

NOTES

No.	Date	Description

TITLE

SEAL & SIGNATURE	DATE: 12.12.2023
	PROJECT No:
	DRAWN BY:
	CHECKED BY:
	DWG No:

Fine Line Engineers Inc.

Electrical, Mechanical, Plumbing
Fire Protection, Construction Administration

2089 W. 76TH STREET Hialeah, Fl. 33016

Voice: 786.953-4901 - Fax: 786.953-4907

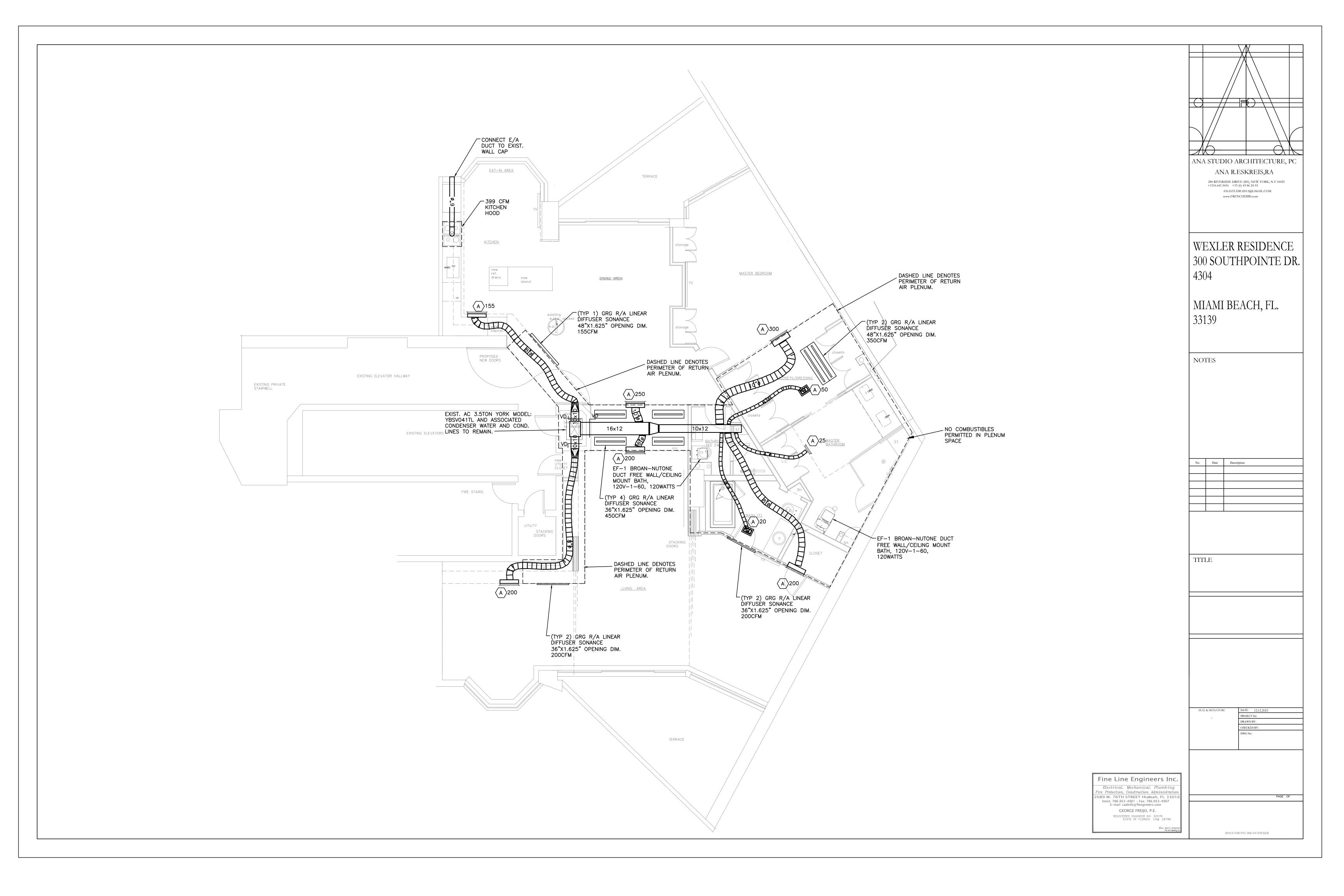
E-mail: cadinfo@flengineers.com

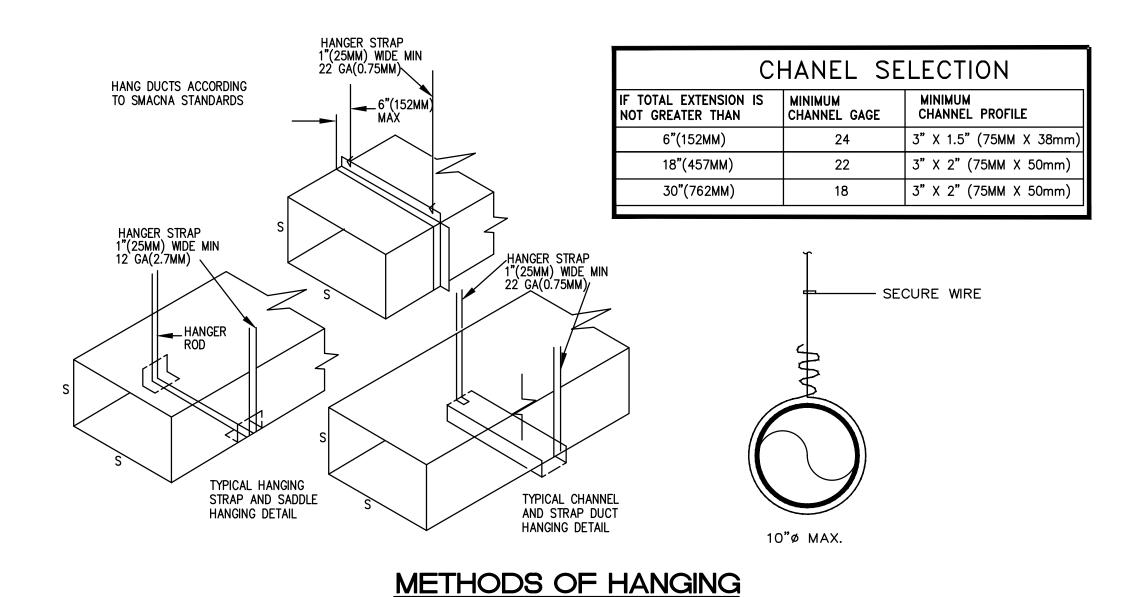
GEORGE FREIJO, P.E.

REGISTERED ENGINEER NO. 32578
STATE OF FLORIDA CA#: 29796

PAGE OF

SPACE FOR NYC-BSCAN STICKER



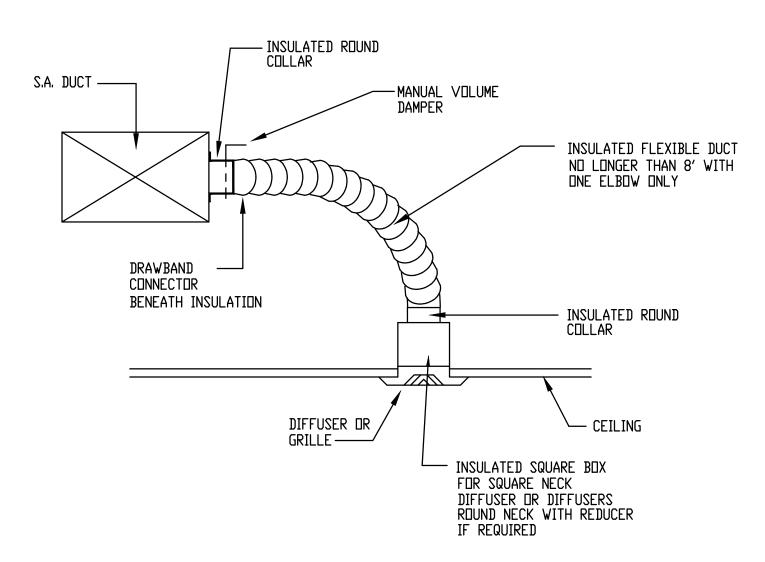


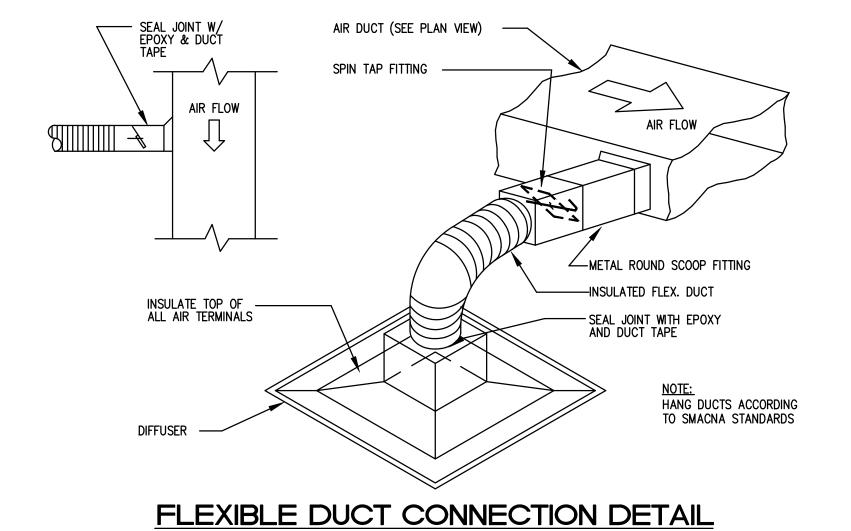
SEAL JOINT W/ EPOXY & DUCT TAPE AIR FLOW VOLUME DAMPER SUPPLY DUCT DFFUSER OR GRILLE DIFFUSER OR GRILLE

FLEXIBLE DUCT CONNECTION DETAIL

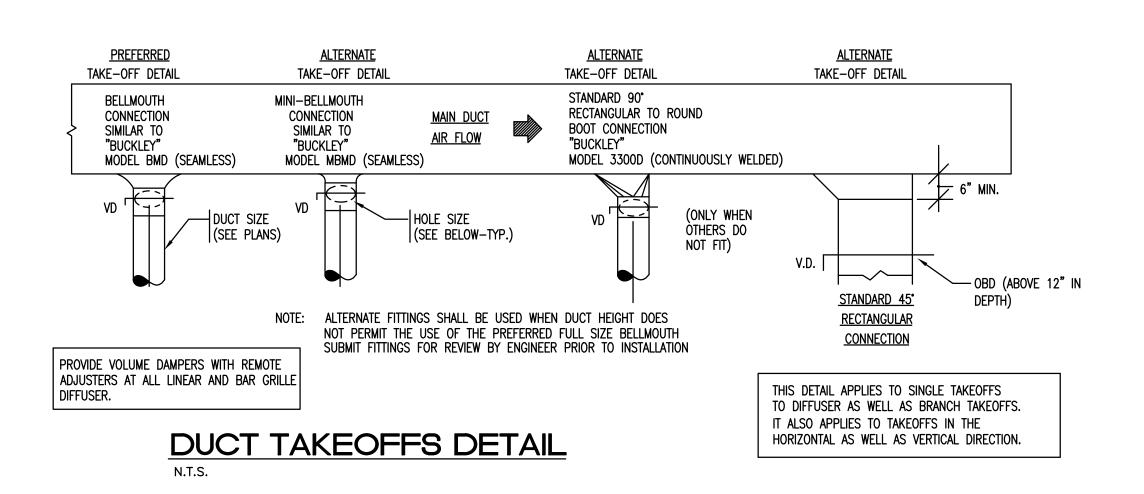
N.T.S.

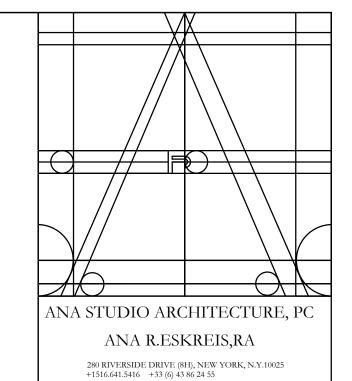
1.— PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN
2.— FLASH & SEAL WALL AND ROOF CAP





TYPICAL CONNECTION TO AIR DIFFUSER





+1510.041.3410 +53 (0) 43 86 24 55

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Voice: 786.953-4901 - Fax: 786.953-4907
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GEORGE FREIJO, P.E.

REGISTERED ENGINEER NO. 32578
STATE OF FLORIDA CA#: 29796

PAGE OF

SPACE FOR NYC-BSCAN STICKER

SCOPE OF WORK 1- PROVIDE POWER & LIGHTING ELECTRICAL DISTRIBUTION FOR REMODEL UNIT

ELECTRICAL SPECIFICATIONS

1. THE WORK SHALL COMPLY WITH THE LATEST APPLICABLE REQUIREMENTS OF THE NATIONAL

ELECTRICAL CODE 2017, FLORIDA BUILDING CODE 2020 SEVENTH EDITION, O.S.H.A. (LOCAL

REQUIREMENTS AND ALL OTHER LOCAL CODES AND ORDINANCES GOVERNING THIS INSTALLATIONS,

AS A MINIMUM STANDARD, UNLESS SPECIFICATIONS LISTED HEREIN OR SHOWN ON PLANS REQUIRE

WORK INCLUDED CONSISTS OF ALL SUPERVISION, LABOR, MATERIAL, EQUIPMENT FACILITIES AND

INDICATED ON THE DRAWINGS AND CALLED FOR IN THIS SPECIFICATION OR AS MAY BE REASONABLY IMPLIED BY EITHER. ALL NOTES ON THE DRAWINGS PERTAINING TO THE WORK OF THIS TRADE SHALL BE CONSIDERED AS PART OF THIS SPECIFICATIONS AND CONTRACT.THE CONSTRUCTION SHALL

BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS

ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER

OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN. THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, SUCH PLANS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE ELECTRICAL CONTRACT DOCUMENTS. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS AND ARRANGEMENTS ONLY. THE

CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND

equipment with the representatives of the other trades involved before starting

NSTALLATIONS OF THOSE ITEMS. COORDINATE THE INSTALLATIONS OF REQUIRED SUPPORTING

DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED, ALL SLAB AND FIREWALL PENETRATIONS

MUST BE FIRE RATED AND MUST CONFORM TO OWNER'S APPROVAL AS TO LOCATION AND

3. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 NEC. PROVIDE GROUND WIRES IN ALL CONDUITS UNLESS OTHERWISE NOTED.

4. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TEMPORARY ELECTRIC POWER AND LIGHTING FOR ALL TRADES.

5. ALL EXPOSED CONDUITS SHALL BE RUN AS NEAT AND INCONSPICUOUS AS POSSIBLE AND PAINTED

6. FLEXIBLE CONDUITS SHALL BE USED FOR CONNECTION TO ALL VIBRATING EQUIPMENT SUCH AS MOTORS, LIGHTING FIXTURES, ETC. FLEXIBLE CONDUIT SHALL BE "LIQUID TIGHT" WHEN EXPOSED TO

7. CONDUCTORS SIZE #8 AND LARGER SHALL BE TYPE THWN STRANDED, COPPER. CONDUCTORS SIZE

#10 AND SMALLER SHALL BE COPPER, TYPE THHN SOLID, UNLESS NOTED OTHERWISE.,

CONDUCTORS SHALL CONSIST OF 98% CONDUCTIVITY COPPER AS INDICATED. SIZE ARE AWG. ALL

CONDUCTORS SHALL BE RUN IN CONDUIT EXCEPT AS NOTED ON PLANS. POWER, LIGHTING, AND

GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. EXCEPT WHERE OTHERWISE INDICATED. CONTROL CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG. CONDUCTORS SHAI BE CONTINUOUS FROM OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS. PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR

IDENTIFICATION OF CIRCUITS. CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES

EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE ONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TYP

TERMINAL LUGS, OR IN PRESSURE TERMINAL. COMPRESSION SPLICES SHALL BE INSULATED USING

3M #33+ OR #88 PLASTIC TAPE, SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH

ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.

COMPOUND. HANDLES SHALL BE IVORY COLORED.

240-3.240-6 AND 384-2 SHALL APPLY.

FIXTURES SHALL CONFORM TO NEC 410-64.

CEILING LIGHT / FAN

EMERG. BALLAST.

TRACK LIGHTING

FLAT LENS 2' x 4' FLUORESENT FIXTURE

2' x 4' FLUORESCENT LIGHT FIXTURE W/

RECESSED INCANDESCENT DOWNLIGHT

* NOT ALL SYMBOLS SHOWN HERE MAY APPLY FOR THIS PROJECT

RECESSED INCANDESCENT OR FLUORESCENT

LUMAX 3PG33224-C09L18--FX1-L941-AH04

WALL MOUNTED EXIT SIGN W/ BATT. BACK-UP

AMPLE WORK SPACE.

8. RECEPTACLES SHALL BE 15/0A, 125 V AS 2 POLE, 3 WIRE SINGLE OR DUPLEX GROUNDED TYPE EXCEPT WHERE SPECIFIC PURPOSE, LOCKING OR HIGHER RATED RECEPTACLES ARE SHOWN ON THE

9. ALL SWITCHES SHALL BE OF THE TOTALLY ENCLOSED TUMBLER TYPE WITH BODIES OF PHENOLIC

10. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAMEPLATE DATA FOR WIRING AND OVERCURRENT

11. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR A REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE

12. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE

13. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL WIRING FOR ALL EQUIPMENT. ELECTRICAL POWER AND CONTROL WIRING FOR HVAC, POOL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR WIRING DIAGRAMS AND REQUIREMENTS.

PARABOLIC 2' x 4' FLUORESCENT LIGHT FIXTURE

OPEN EGG CRATE 2' x 2' FLUORESCENT LIGHT FIXTURE

REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST. ALL RECESSED LIGHTING

PROTECTION REQUIREMENTS BEFORE PERFORMING ROUGH-IN WORK. NEC 110-16A, 215-5, 220-2,

TO MATCH COLOR OR SURROUNDINGS. PROVIDE FIRE STOP IN ALL ELECTRICAL CONDUITS CROSSING

A HIGHER STANDARD, ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 2017 ART, 110,26,THE

ELECTRICAL

CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL AT THE EXISTING FULL FIRE ALARM SYSTEM.

FIRE ALARM DESIGN SHALL MEET THE REQUIREMENTS OF FLORIDA STATUTES 61G15-32.008.

14. PANEL DIRECTORIES SHALL BE TYPED ACCURATELY TO SHOW AS BUILT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.

- 15. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATIONS OF LIGHTS, RECEPTACLES AND SWITCHES FOR EXACT LOCATION.
- 16. THE ENTIRE INSTALLATIONS SHALL BE PERFORMED IN A FIRST—CLASS WORK MANNER. THE CONTRACTOR SHALL TOUCH—UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A
- PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN I, IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND SATISFACTORY INSTALLATIONS. AN ATTEMPT HA BEEN MADE TO SEPARATE AND COMPLETELY DEFINE

NOT RELIEVE THE CONTRACTOR FROM FULL RESPONSIBILITY OF COMPLIANCE WITH THE WORK OF

- HIS/HER TRADE WHICH MAY BE INDICATED ON ANY OF THE DRAWINGS AND OTHER SECTIONS OF THE SPECIFICATIONS. THE CONTRACTOR SHALL CAREFULLY REVIEW AND VERIFY THE ARCHITECTURAL, STRUCTURAL, POOL EQUIPMENT, MECHANICAL DRAWINGS AND SPECIFICATIONS IN ADDITION TO THE ELECTRICAL AND OTHER RELATED TRADES AND SECTIONS. SHOULD ANY DISCREPANCIES BE FOUND THE ARCHITECT/ENGINEER MUST BE NOTIFIED. THIS COORDINATION SHALL BE DONE PRIOR TO
- D. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION AND DIMENSIONS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC BUR ARE TO BE FOLLOWED AS CLOSELY AS THE ACTUAL CONSTRUCTION OF THE BUILDING AND THE WORK OF THE OTHER TRADES WILL PERMIT.
- MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND . ALL JUNCTION BOXES SHALL BE ACCESSIBLE AS PER NEC EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING
 - 22. ALL PANELBOARDS MAIN BUS BARS SHALL BE COPPER, SIZED IN ACCORDANCE WITH STANDARDS TO LIMIT THE TEMPERATURE RISE ON ANY CURRENT CARRYING PART TO A MAXIMUM OF 50 DEGREES C. ABOVE AN AMBIENT OF 40 DEGREE C. MAXIMUM. PROVIDE MAIN CIRCUIT, CIRCUIT BREAKERS, MAIN LUGS OR SUB-FEED LUGS AS REQUIRED. ALL NEW PANELBOARDS 400A OR ABOVE SHALL BE SQ."D" I-LINE, SIEMENS P2, ALL OTHERS MANUFACTURER SHALL BE EQUIVALENT TO THIS
 - 23. NOT LESS THAN 90% OF THE LAMPS IN PERMANENTLY INSTALLED LUMINARIES SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICIENCY OF NOT LESS THAN 65 LUMENS-PER-WATT AS PER R404.1 AND C405.1 2020 FBC EC.
 - 24. SAFETY SWITCHES/CIRCUIT BREAKER DISCONNECTS: SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE KD, FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERAGE, VOLTAGE, HORSEPOWER AND AIC RATINGS INDICATED AND SHALL HAVE SOLID NEUTRALS. LUGS SHALL BE U.L. LISTED FOR COPPER-ALUMINUM. ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA-1, GENERAL PURPOSE, EXCEPT THAT SWITCHES INDICATED (WP) WEATHERPROOF, SHALL BE NEMA-3R ENCLOSURES WITH SUITABLE
 - GASKETS AND BONDING MEANS. SWITCHES AND DISCONNECT SHALL BE AS MANUFACTURED BY SQUARE "D" OR APPROVED EQUAL. CIRCUIT BREAKER DISCONNECTS MAY BE USED IN LIEU OF SAFETY SWITCHES PROVIDING THEY COMPLY WITH THE SAFETY SWITCH REQUIREMENTS AND ARE SUPPLIED WITHIN THEIR RATINGS AND

VOLTAGE DROP:

EXTERIOR WALL PACKS

CEILING MOUNTED CORD RECEPTACLES

20AMP, 115V, SINGLE RECEPT. @ 18" AFF

20AMP, 115V, DUPLEX RECEPT. @ 18" AFF

20AMP, 115V, DUPLEX RECEPT. W/ G.F.C.I.

20AMP QUADPLEX RECEPT. @ 18" AFF

20AMP, 115V, FLOOR RECPTACLE

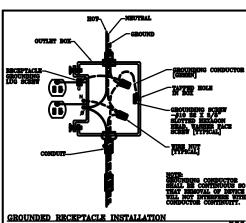
DATA OUTLET BOX @ 18" AFF

MOTORIZED SWITCH

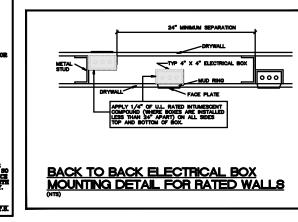
SPECIAL RECEPTACLE 36" AFF U.N.O.

TELEPHONE JUNCTION BOX @ 18" AFF

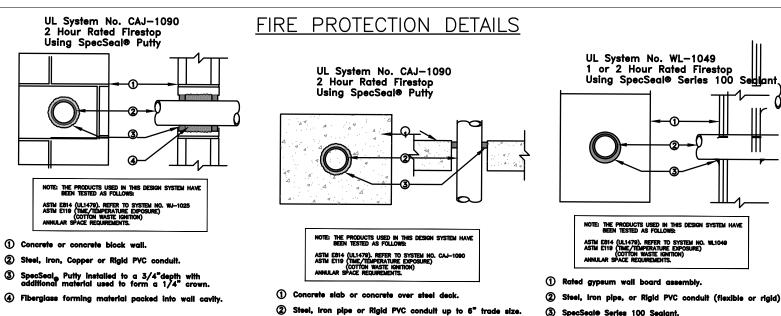
FEEDERS: ALL FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2.0% AT DESIGN LOAD. BRANCH CIRCUITS:
ALL BRANCH CIRCUITS CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3.0% AT



A SCHEDULE IS SUBMITTED FOR APPROVAL



GFCI GROUND FAULT CIRCUIT INTERRUPTER



Metallic or PVC Pipe Through Concrete Walls
STI Drawing No. DS1023

NOT TO SCALE

Metallic Pipe or PVC Conduit Through Concrete Floors
STI Drawing No. DS1003

NOT TO SCALE * Refer to UL Fire Resistance Directory For Complete Installation Requirements.

Product depth:

One hour roted assemblies, 5/8" depth with 1/4" crown.

Two hour roted assemblies, 1" depth with 1/4" crown.

Annulus ranging from point contact to 1/4" maximum. SpecSeale Putty installed to 1"depth. Recessed 1/2" from top surface. Annulus ranging from 1/4" minimum to 1" maximum. ncrete Floors
NOT TO SCALE

Metallic Pipe or Rigid PVC Through Gypsum Board Walls
STI Drawing No. DS1032

NOT TO SCALE THIS DESIGN COMPLIES WITH THE REQUIREMENTS

OF ASHRAE 90.1 (2016) SECTION 8 AS ADOPTED

BY THE 7TH EDITION (2020) FLORIDA BUILDING

8.4.2 AUTOMATIC RECEPTACLE CONTROL - THE

CONTROLLED: AT LEAST 50% OF ALL 125V, 15

AND 20 AMP RECEPTACLES IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED

PRIMARELY FOR PRINTING AND/OR COPYING

FUNTION, BREAK ROOMS, CLASSROOMS, AND

A - A SCHEDULED BASIS USING A IME-OF-DAY

RECEPTACLES OFF AT SPECIFIC PROGRAMMED

TIMES-AN INDEPENDENT PROGRAM SCHEDULE

SHALL BE PROVIDED FOR AREAS OF NO MORE THAN 5,000 SQ. FT. AND NOT MORE THAN ONE

FLOOR (THE OCCUPANT SHALL BE ABLE TO

C - A AUTOMATED SIGNAL FROM ANOTHER

MANUALLY OVERRIDE THE CONTROL DEVICE FOR

B - AN OCCUPANT SENSOR THAT SHALL TURN

RECEPTACLES OFF WITHIN 20 MINUTES OF ALL

CONTROL OR ALARM SYSTEM THAT SHALL TURN RECEPTACLES OFF WITHIN 20 MINUTES AFTER

DETERMINING THAT THE AREA IS UNOCCUPIED.

DISTRIBUTED THROUGHOUT THE SPACE. PLUG-IN DEVICES SHALL NOT BE USED TO COMPLY WITH

EXCEPTIONS: RECEPTACLES FOR THE FOLLOWING

SHALL NOT REQUIRE AN AUTOMATIC CONTROL

A - RECEPTACLES SPECIFICALLY DESIGNATED

B - SPACES WHERE AN AUTOMATIC SHUTOFF

THE ROOM OR BUILDING OCCUPANT(S)

FOR EQUIPMENT REQUIRING 24 HOUR OPERATION

WOULD ENDANGER THE SAFETY OR SECURITY OF

ALL CONTROLLED RECEPTACLES SHALL BE

DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES AND ARE TO BE UNIFORMLY

D - DESIGN COMPLIES WITH FBC CE 405.1

E - DESIGN COMPLIES WITH NEC 700.12

PERMANENTLY MARKED TO VISUALLY

CODE IN THE ENERGY CODE (FBC CE 405).

FOLLOWING SHALL BE AUTOMATICALLY

THIS CONTROL SHALL FUNCTION ON:

OPERATED CONTROL DEVICE THAT TURNS

INDIVIDUAL WORKSTATIONS.

UP TO TWO HOURS); OR

SECTION 8.4.2.

ILLUMINATION

OCCUPANTS LEAVING SPACE; OR

ENERAL ELECTRICAL NOTES:

STI Drawing No. DS1023
* Refer to UL Fire Resistance Directory
For Complete Installation Requirements

- ALL LIGHT FIXTURE TYPES SHALL BE SELECTED BY OWNER/ARCHITECT.

2- ALL CEILING RECESSED LIGHT FIXTURES IN DIRECT CONTACT WITH INSULATION SHALL BE 'IC' TYPE AS REQUIRED BY N.E.C. AIR TIGHT AND HOUSING SHALL BE SEALED WITH A GASKET OR CAULK TO CEILING OR WALL. R402.4

- ALL LIGHTING, EXIT SIGN & EMERGENCY LIGHT TO BE SELECTED BY OWNER.
- 4- VERIFY EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS.

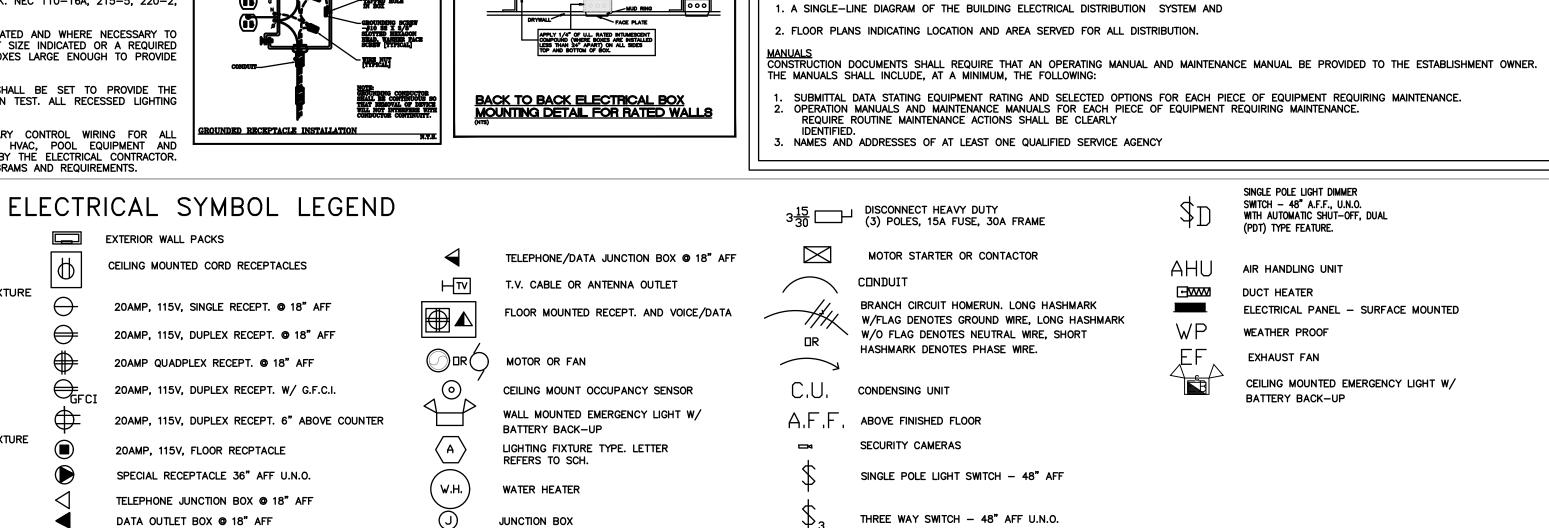
5- CONTRACTOR SHALL COORDINATE WITH OWNER/ARCHITECT PROPER INSTALLATION AND FINAL LOCATION OF ALL HVAC DIFFUSERS AND LIGHTS PRIOR TO ROUGH-INS AND INSTALLATIONS.

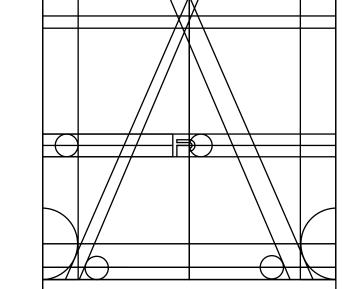
- VERIFY EQUIPMENT ELECTRICAL LOADS WITH EQUIPMENT "CUT SHEETS" AND NAMEPLATE OF EQUIPMENT BEFORE INSTALLATION OF POWER CONDUCTORS.

- 8- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECH. EQUIPMENT.
- 9— PROVIDE AND INSTALL ALL NEEDED RELAYS, STARTERS AND CONTROL WIRING NOT SHOWN ON THESE PLANS FOR COMPLETE INSTALLATION OF A/C SYSTEMS SHOWN.
- 10- ALL NEW INTERIOR AND EXTERIOR LIGHT FIXTURES SHALL BE SELECTED BY THE OWNER OR OWNER'S INTERIOR DESIGNER.
- 12- ALL LED LIGHT FIXTURES SHALL BE FULL SPECTRUM WITH WARM WHITE LIGHT
- 13- 90% OF ALL FIXTURES/LAMPS SHALL BE ENERGY EFFICIENT.
- 14- INTERSYSTEM BONDING REQUIRED TELEPHONE AND LOW VOLTAGE SYSTEM AS PER NEC ARTICLE 250.94

COMPLETION REQUIREMENTS: (TO COMPLY WITH CHAPTER 13-413.1 ABC.2 FBC 2020 7TH EDITION) DRAWINGS.

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:





ANA STUDIO ARCHITECTURE, PC ANA R.ESKREIS,RA

> 280 RIVERSIDE DRIVE (8H), NEW YORK, N.Y.10025 +1516.641.5416 +33 (6) 43 86 24 55 ANASTUDIO2013@GMAIL.COM

WEXLER RESIDENCE 300 SOUTHPOINTE DR

MIAMI BEACH, FL

NOTES

TITLE

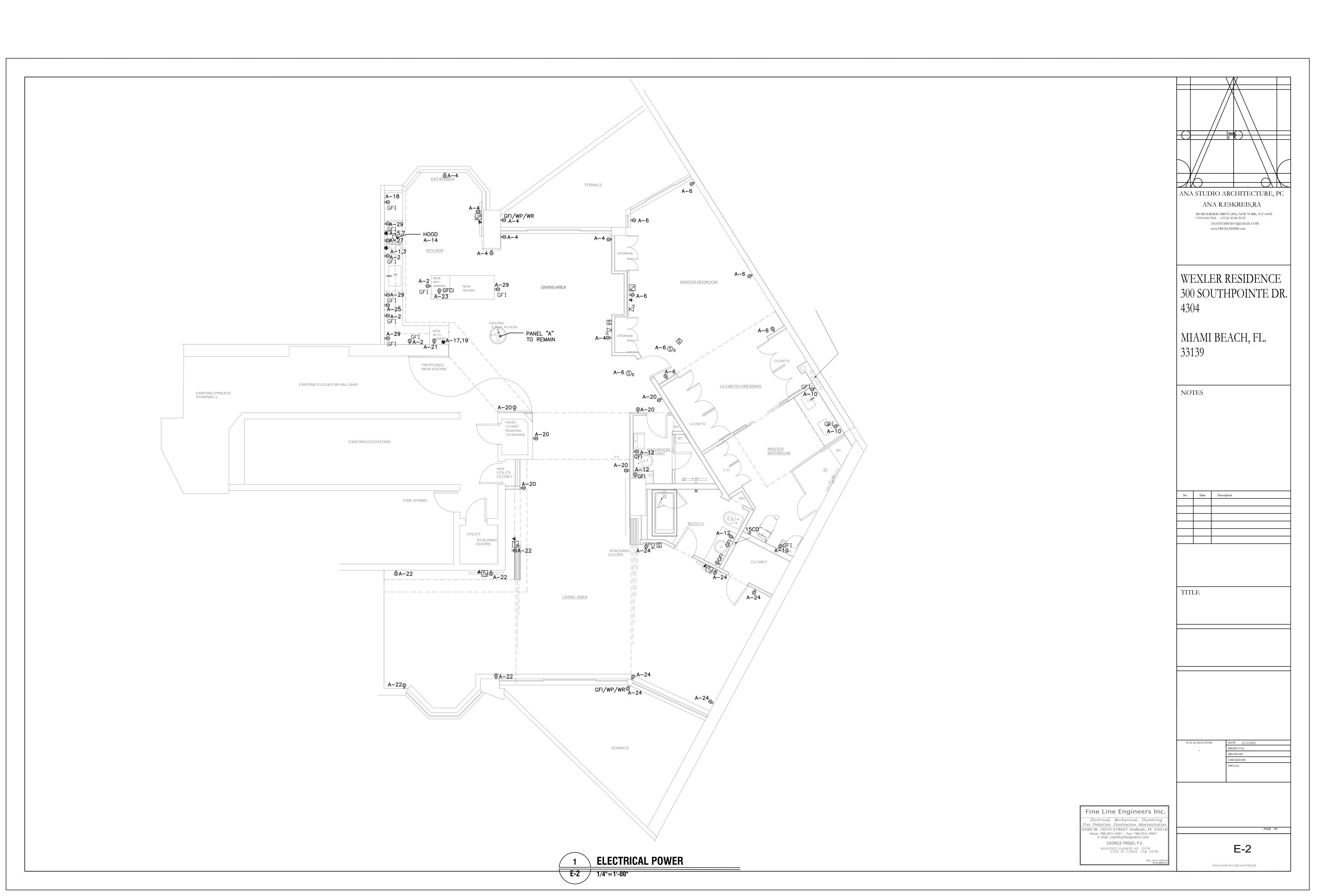
SEAL & SIGNATURE

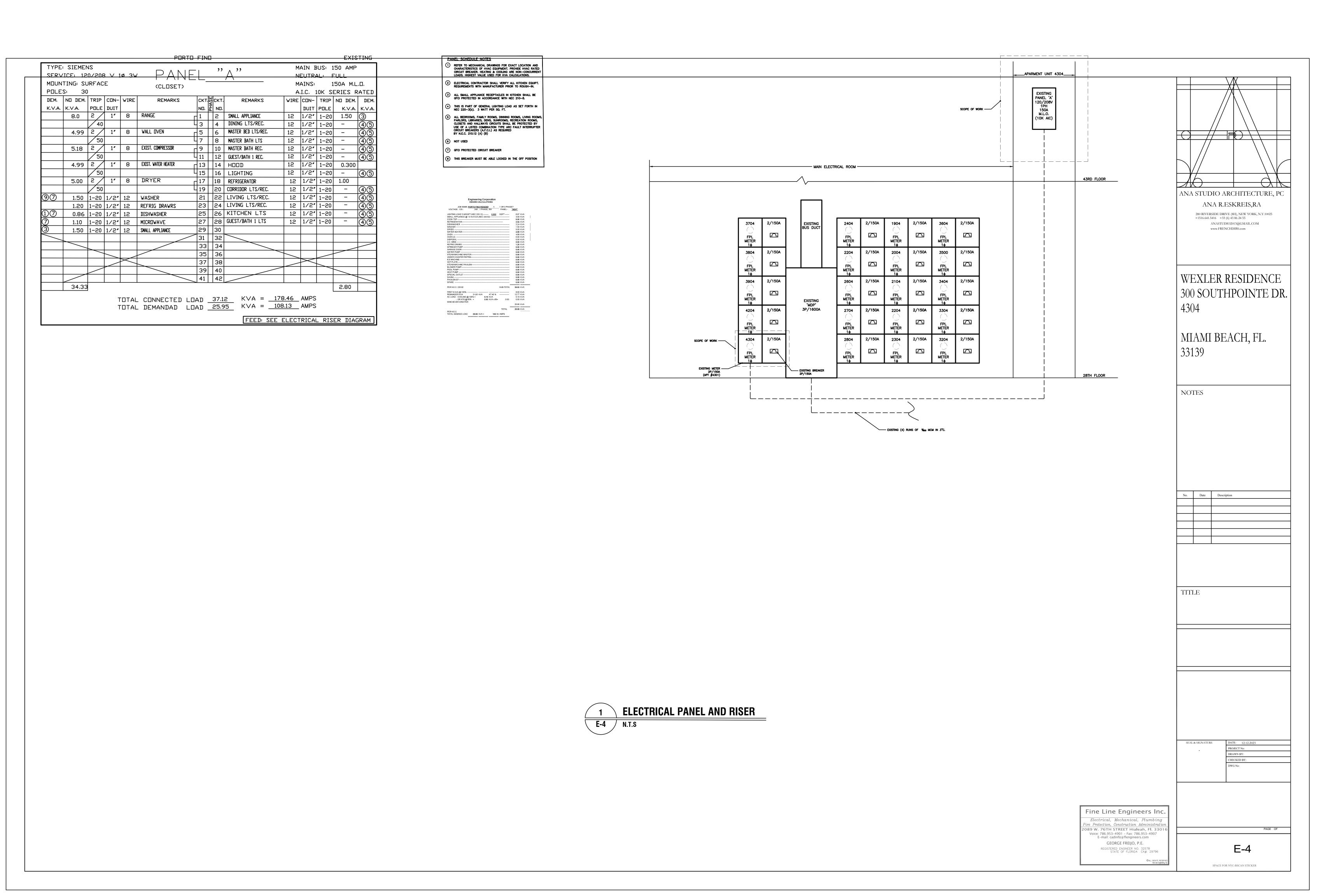
Electrical, Mechanical, Plumbing e Protection, Construction Administrat 89 W. 76TH STREET Hialeah, Fl. 330 Voice: 786.953-4901 - Fax: 786.953-4907 E-mail: cadinfo@flengineers.com GEORGE FREIJO, P.E. REGISTERED ENGINEER NO. 32578 STATE OF FLORIDA CA#: 29796

Fine Line Engineers Inc.

A,F,G, ABOVE FINISHED GRADE

SPACE FOR NYC-BSCAN STICKER





GENERAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMAN LIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIRMENTS SET FORTH BY THE FLORIDA PLUMBING CODE 2023 8TH EDITION, MIAMI-DADE ORDINANCE 8-31AND MIAMI-DADE COUNTY ORDINANCE 08-14, MAXIMUM FLOW RATES CONSUMPTION FBCR P2903.2A; AND ANY LOCAL GOVERNING AUTHORITIES.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, AND ORDINANCES.

3. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS

4. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

5. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.

6. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS AS NOT TO INTERFER WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.

7. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED ORTHERWISE.

8. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

9. THE PLUMBING CONTRACTOR SHALL BE RESPONABLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.

10. LOCATION OF PLUMBING ROUGH—IN MAY CHANGE. VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.

11. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL WHERE APPLICABLE.

12. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY ARCHITECT/ENGINEER MUST BE A CONDITION OF THE CONTRACT.

13. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.

14. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS,

AND TESTINGS.

OF ALL EXISTING UTILITIES.

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

16. THE CONTRACTOR SHALL FURNISH ALL WATER METERS UNLESS OTHERWISE NOTED.

17. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID

INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

18. VERIFY LOCATION, SIZE, ELEVATION, MATERIALS, AND PRESENT STATE

19. INSTALL READILY ACCESSIBLE GATE VALVES IN ALL BRANCH WATER LINES SERVING ANY ROOM HAVING PLUMBING FIXTURES.
ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE

20. MAIN WATER SUPPLY SHALL BE EQUIPTED WITH A BACKFLOW PREVENTER WHERE REQUIRED.

21. ALL THREADED WATER OUTLETS SHALL BE FURNISHED WITH WATTS #BA APPROVED VACUUM BREAKERS.

22. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING

23. WHERE DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATING UNIONS SHALL BE USED.

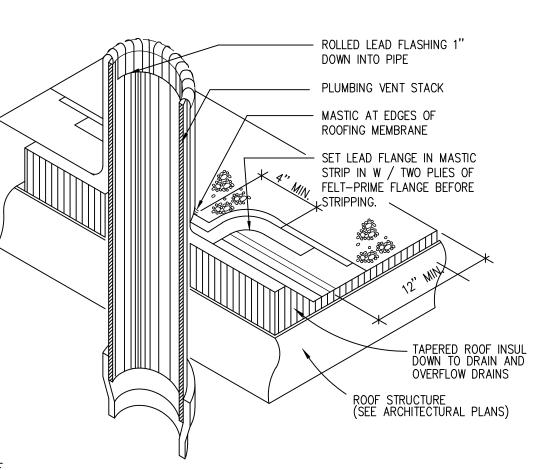
24. IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE,
DEVICE, PRODUCT, OR MATERIALS WHICH IS NOT AS SPECIFIED, THE
CONTRACTOR SHALL BE RESPONSIBILITY TO PROVE TO THE
ARCHITECT/ENGINEER THAT THE PROPOSED SUBSTITUTION IS EQUAL.

25. THE PLUMBING CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERPFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.

26. THE PLUMBING CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS, TO THE ARCHITECT/ENGINEER PROIR TO COMPLETION OF THE PROJECT.

27. FIXTURES TO COMPLY WITH ASA REQUIRED FLOW RATES DAD CO. STD. 8-31

28. FBCP 424.3 SHOWER CONTROL VALVES. INDIVIDUAL SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE—BALANCE, THERMOSTATIC MIXING OR COMBINATION PRESSURE—BALANCE/THERMOSTATIC—MIXING WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE 1016.



VENT THRU ROOF DETAIL

PIPE SLOPE SCHEDULE					
PIPE SIZE	PIPE SLOPE				
2 1/2"	1/4" PER FOOT				
3" TO 6"	1/8" PER FOOT				
8" OR LARGER	1/16" PER FOOT				

MATERIALS
WATER LINES WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER AND TYPE "K" COPPER FOR 2-1/2" AND ABOVE. ALL UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER.
SANITARY, STORM AND CONDENSATE LINES SCHEDULE 40 PVC D.W.V. FOR SANITARY, STORMDRAINS, AND CONDENSATE LINES WHERE LOCAL CODE AND ORDINANCES WILL ALLOW. PVC MAY NOT BE USED IN ANY MECHANICAL ROOMS OR IN ANY RETURN AIR PLENUMS AND MAY NOT PENETRATE ANY RATED WALL OR FLOORS.
PIPE INSULATION INSULATE CONDENSATE LINES ABOVE GRADE AND FIRST 8'-0" OF COLD WATER LINE FROM WATER HEATER AS FOLLOWS: CW, HW SUPPLY AND RETURN — 1" THICK PREFORMED FIBERGLASS PIPE INSULATION W/ FACTORY JACKET.

CONDENSATE PIPING - 3/4" ARMAFLEX PREFORMED.

PLI	JMBING FIXTURE	SCHEDULE						
NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	DRAIN	WAT	ER HOT	FLOW	REMARKS
LAV	LAVATORY VITREOUS CHINA	*	*	1-1/2"	1/2"	1/2"	1.0	
wc	WATER CLOSET VITREOUS CHINA	*	*	3"	1/2"		1.28 GPF	
WM	WASHING MACHINE	*	*	1-1/2"	1/2"	1/2"	16 GPL	
KS	KITCHEN SINK STAINLESS STEEL	*	*	1-1/2"	1/2"	1/2"	1.5	
SH	SHOWER	*	*	1-1/2"	1/2"	1/2"	1.5	PROVIDE ANTI SCOLD VALVES
WC-1	WATER CLOSET WALL TANK	ODURAVIT	WD102200090	3"	1/2"		1.28GPF	
TUB	TUB	*	*				1.5	PROVIDE SYMMONS THERMOSTATIC MIXING VALVE MOD.No.7-230-CK-M

* OWNER SUPPLIED PRODUCT ALL FIXTURES SHALL COMPLY WITH MIAMI-DADE ORDINANCE 8-14

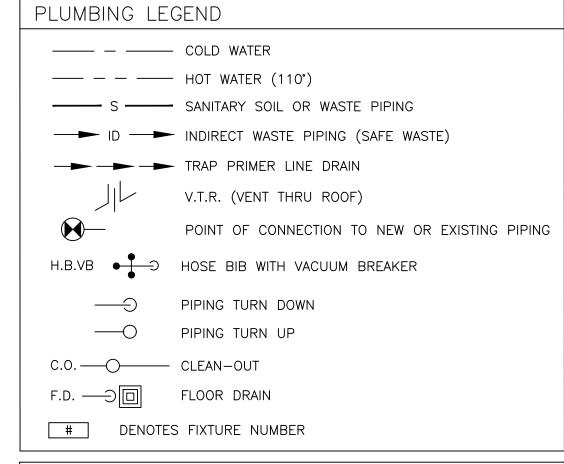
ALL FIXTURES SHALL COMPLY WITH FBCP-406 THRU 420

THE FAUCETS USED IN THE RESTROOMS ARE PROVIDED WITH A DELAYED CLOSING VALVE IN ACCORDANCE WITH

SECTION 453.1.6.7 FBC BUILDING.

SCOPE OF WORK

PROVIDE PLUMBING DISTRIBUTION FOR REMODEL UNIT

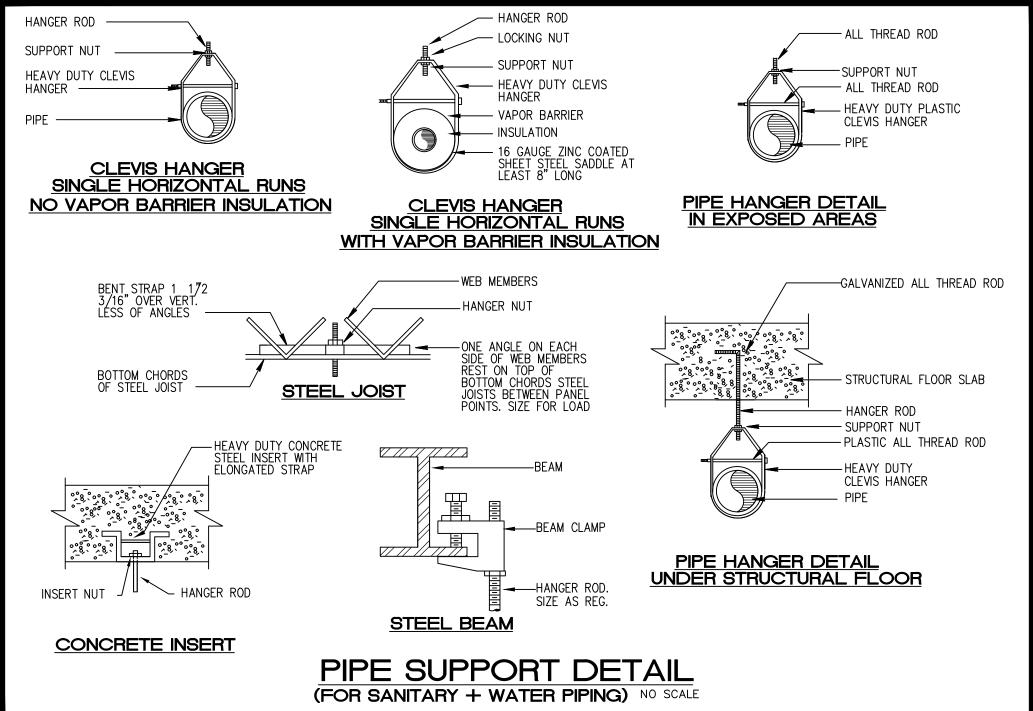


NOTES:

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCURS, THE ITEM SHALL BE PROVIDED & INSTALLED BY THE PLUMBING CONTRACTOR.

FOR STANDARD HEIGHTS SEE ELECTRICAL SPECIFICATION

OR AS OTHERWISE NOTED ON DRAWINGS.



"C-2"

F-A-2009

"A-2"

IN ACCORDANCE WITH THE MANUF. INSTRUCTIONS.

U.L. NO.

C-AJ-1106

SLEEVES AND FIRESTOPPING

"B-1"

U.L. NO. U.L. NO. U.L. NO. U.L. NO. U.L. NO. C-AJ-1106 C-AJ-2039 C-AJ-1146 C-AJ-1146 F-B-1003

"B-2"

USE PROSET "FIRESTOP PENETRATORS". U.L. CLASSIFIED IN THE BUILDING MATERIALS DIRECTORY, TESTED BY ASTM E-814.

1. CAST-IN-COUPLING PENETRATORS FOR POURED-IN-PLACE CONCRETE ON STEEL OR WOOD FORMS IN FLOORS OR WALLS.

3. SPLIT WALL SLEEVE PENETRATORS FOR PIPES PASSING THROUGH GYPSUM WALLS OR FLOOR / CEILING ASSEMBLIES.

2. CORED HOLE COUPLING PENETRATORS FOR CORED HOLES THROUGH PRECAST OR EXISTING CONCRETE IN FLOORS OR WALLS.

A. SYSTEM "A" PENETRATORS FOR WATER LINES, HEATING AND COOLING LINES, FIRE STANDPIPE AND SPRINKLER LINES, TEMPERATURE CONTROL, ACID WASTE GLASS PIPE AND ELECTRIC AND COMMUNICATION CONDUIT PENETRATING FLOORS OR WALLS.

U.L. NO. F-A-2006

USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS OR FLOOR/CEILING ASSEMBLIES

B. SYSTEM "B" PENETRATORS FOR CAST IRON DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS OR WALLS.

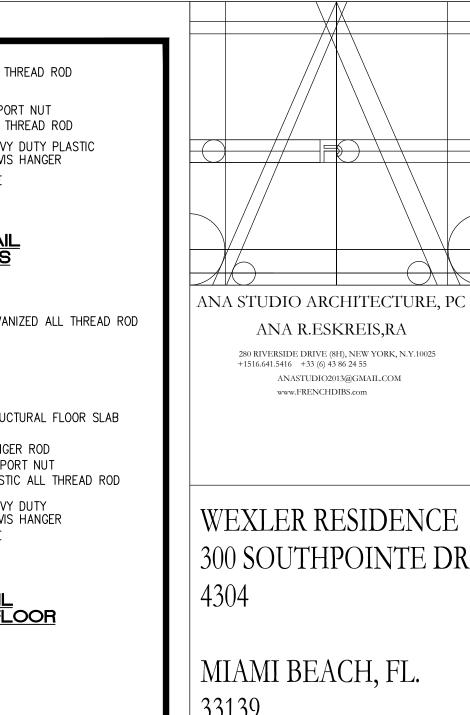
. SYSTEM "C" PENETRATORS FOR PLASTIC DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS OR WALLS

CA. SYSTEM "CA" PENETRATORS FOR POLYPROPYLENE ACID WASTE PIPE PENETRATING FLOORS OR WALLS.

"B-4" "B-4" "C-4"

U.L. NO. F-A-1003

4. SLIP FLANGE CM COUPLING FOR POURED-IN-PLACE CONCRETE ON CORRUGATED METAL DECK.



C-AJ-1146

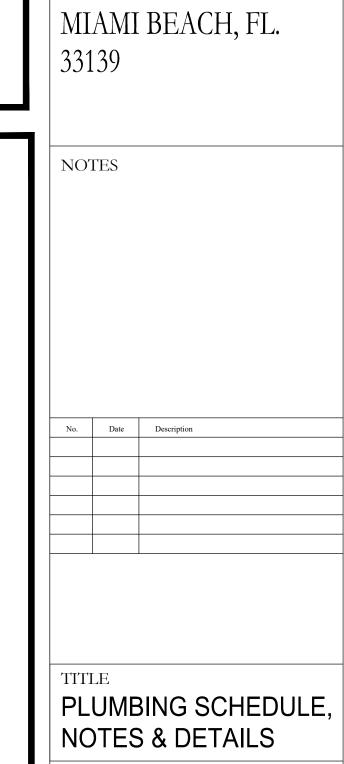
W-L-1038

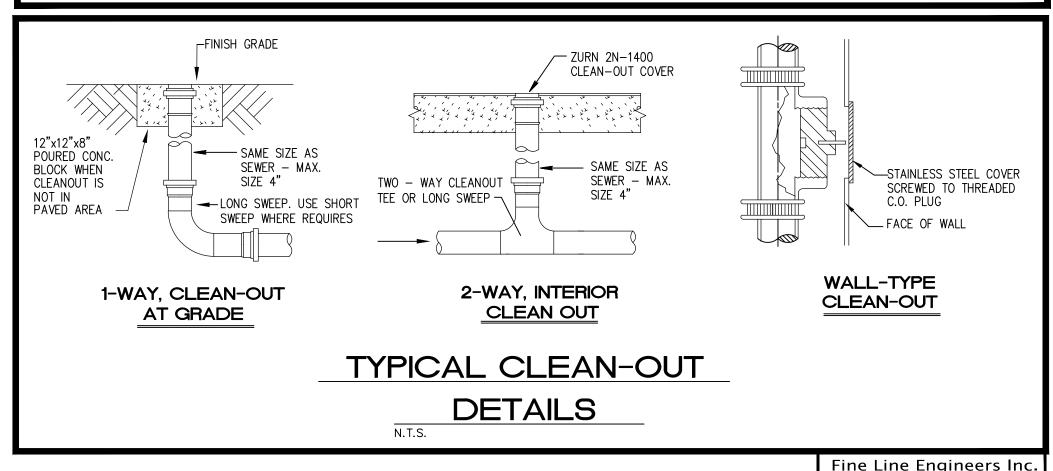
W-L-1038

"A-2"

GYPSUM

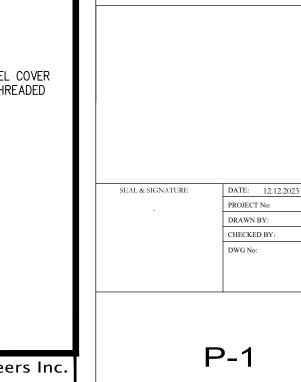
NO SCALE





U.L. NO.

FIRESTOP PENETRATOR DETAILS



Fine Line Engineers Inc.

Electrical, Mechanical, Plumbing
Fire Protection, Construction Administration

089 W. 76TH STREET Hialeah, Fl. 33016

Voice: 786.953-4901 - Fax: 786.953-4907
E-mail: cadinfo@flengineers.com

GEORGE FREIJO, P.E.

REGISTERED ENGINEER NO. 32578
STATE OF FLORIDA CA#: 29796

PAGE OF

SPACE FOR NYC-BSCAN STICKER

1 PLUMBING SCHEDULE, NOTES & DETAILS
P-1 N.T.S

