

Oakwood Blvd. SUITE #230,250, Hollywood, FL. 33020

G-101 LIFE SAFETY PLAN

A-001 GENERAL NOTES \$ SPECIFICATIONS AD-101 DEMOLITION PLAN

AD-102 RCP DEMOLITION A-101 FLOOR PLAN A-102 REFLECTED CEILING PLAN SECTION

A-401 ENLARGED RESTROOM PLAN/ ELEVATION

A-402 MILLWORK UL DETAILS A-502 WALL TYPE

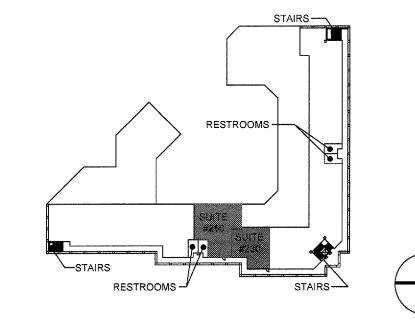


4520 NE 18th AVE #400 OALKAND PARK, FL 33334 PH: (954)-938-1881 CONTACT: BOB LOUCKS

(D6) CONSULTANTS

THE SCOPE OF THE PROJECT INCLUDES ARCHITECTURAL DESIGN, ELECTRICAL, MECHANICAL AND PLUMBING ENGINEERING AS REQUIRED FOR PERMIT FOR A +\- 3,800 S.F. OFFICE FACILITY AS DEPICTED IN THE FLOOR PLAN PROVIDED IN THE RFP. THE EXISTING INTERIOR SECOND GENERATION SPACE WILL BE PARTIALLY DEMOLISHED. OUR BEST EFFOR WILL BE MADE TO SALVAGE AS MUCH OF THE INFRASTRUCTURE AS





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COVER SHEET

CONSTRUCTION DOCUMENTS

180222

G-001

ABV	ABOVE	BRK	BRICK	l DP	DAMP PROOFING	FIN	FINISH	HGT/HT	THEIGHT	MAX	MAXIMUM	Pi	PLATE	STRD	STANDARD
ACOUS	ACOUSTICAL.	CAB	CABINET	DR	DOOR	FL	FLOOR	НМ	HOLLOW METAL	MECH	MECHANICAL	PBLG	PLUMBING	TOC	TOP OF CONCRETE
AD	AREA DRAIN	CJ	CONTROL JOINT	DTL	DETAIL	FLASH	FLASHING	HOR	HORIZONTAL	MFGR	MANUFACTURER	PLAS	PLASTER	T ¢ G	TONGUE ¢ GROOVE
ADJ	ADJACENT/ADJUSTABLE	CLG	CEILING	DWGS	DRAWING (S)	FLR	FLOOR	HP	HIGH POINT	MIN	МІМІМИМ	PROJ	PROJECT	TEMP	TEMPERED
AFF	ABOVE FINISH FLOOR	С	CENTERLINE	DW	DRYWALL	FT	FOOT, FEET	HVAC	HEATING, VENTILATING & AIR CONDITIONING	MISC	MISCELLANEOUS	PLYWD	PLYWOOD	TERR	TERRAZZO
AGGR	AGGREGATE	CLR	CLEAR	ΕA	EACH	FURR	FURRING	ID	INSIDE DIAMETER	МО	MASONRY OPENING	PVMT	PAVEMENT	TJ	TOP OF JOIST
ALUM	ALUMINUM	CLR OPG	CLEAR OPENING	E.J.	EXPANSION JOINT	GA	GAUGE	IN	INCH	MR	MOISTURE RESISTANT	PT	POINT	TOW	TOP OF WALL
ANCH	ANCHOR	СМИ	CONCRETE MASONRY UNIT	ELECT	ELECTRICAL	GALV	GALVANIZED	INSUL	INSULATION	MTL	METAL	P.T.	PRESSURE TREATED	TYP	TYPICAL
ANOD	ANODIZED	СР	CEMENT PLASTER	ELEV / EL	. ELEVATION	GC	GENERAL CONTRACTOR	INT	INTERIOR	MULL	MULLION	QT	QUARRY TILE	UON	UNLESS OTHERWISE NOTED
APPROX	(APPROXIMATE(LY)	COL	COLUMN	EQ	EQUAL	GL	GLASS	JC	JANITOR'S CLOSET	NIC	NOT IN CONTRACT	REF	REFERNCE/REFRIGERATOR	W/	WITH
ARCH	ARCHITECT(URAL)	CONC	CONCRETE	EQUIP	EQUIPMENT	GWB	GYPSUM WALL BOARD	JST	JOIST	NO	NUMBER	REINF	REINFORCED	WD	WOOD
AS	ACOUSTICAL SEALANT	CONST	CONSTRUCTION	EXP	EXPOSED	GYP	GYPSUM	JT	JOINT	NOM	NOMINAL	RES	RESILIENT	WDW	WINDOW
ASHP	ASPHALT	CONT	CONTINUOUS	EXPAN	EXPANSION	GYP BD	GYPSUM BOARD	KIT	KITCHEN	NTS	NOT TO SCALE	RO	ROUGH OPENING	WH	WATER HEATER
AT	ACOUSTICAL TILE	CONTR	CONTRACTOR	EXIST	EXISTING	HANDIC	HANDICAP	KO	KNOCK OUT	oc	ON CENTER	SAN	SANITARY	W/O	WITHOUT
B/	ВОТТОМ OF	CPT	CARPET	FE	FIRE EXTINGUISHER	НВ	HOSE BIB	LAM	LAMINATE	OD	OUTSIDE DIAMETER	SHT	SHEET	WSCT	WAINSCOT
BD	BOARD	CT	CERAMIC TILE	FEC	FIRE EXTINGUISHER CABINET	HC	HOLLOW CORE	LP	LOW POINT	OPNG	OPENING	SHTG	SHEATHING		
BITUM	BITUMINOUS	DIAM	DIAMETER	FD	FLOOR DRAIN	HD	HAND	LT	LIGHT	OPP	OPPOSITE	SIM	SIMILAR		
BLDG	BUILDING	DIM	DIMENSION	FF	FINISH FLOOR	HDW	HARDWARE	LVR	LOUVER	PATN	PARTITION	SPEC	SPECIFICATION		
ВМ	BEAM	D.O.S.	DOOR OPENING SIZE	FHC	FIRE HOSE CABINET	HDWD	HARDWOOD	MACH	MACHINE	PFS	PREMOLDED FILLER	55	STAINLESS STEEL		

ABBREVIATIONS & SYMBOLS

DOOR SYMBOL

DOOR NUMBER

DETAIL

DETAIL

DETAIL

DETAIL

A-000

SHEET NUMBER

REVISION

DETAIL

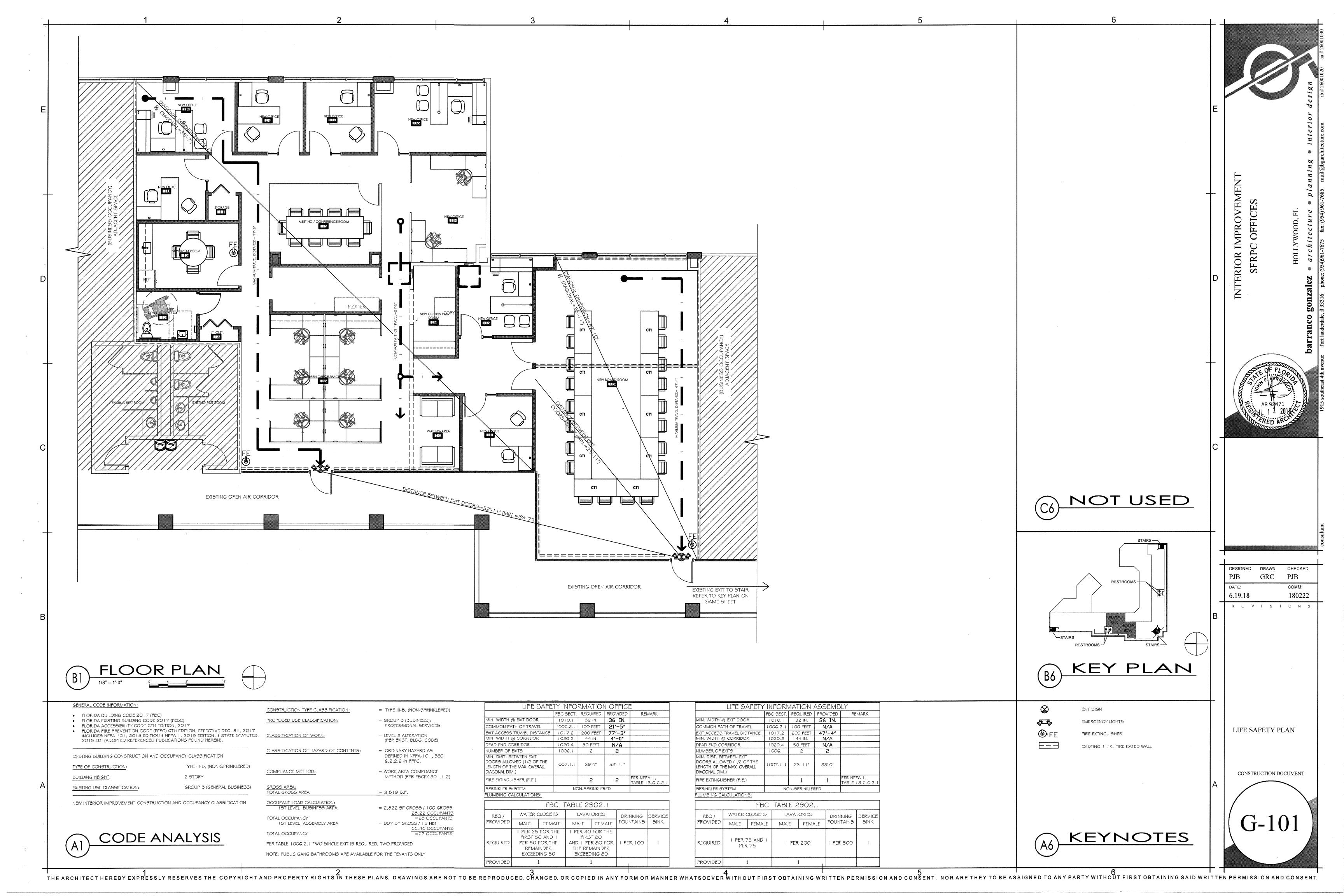
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DI GENERAL DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2017 EDITION WITH ALL REVISIONS AND ERRATA'S APPLICABLE TO THE JURISDICTION OF WHICH IT IS BEING CONSTRUCTED IN.

I.O2 THE GENERAL CONTRACTOR AS MENTIONED HEREIN, IS DEFINED AS THE ENTITY TO WHICH HAS THE CONTRACTUAL AGREEMENT WITH THE OWNER FOR THE FULL CONSTRUCTION OF THE PROJECT AND WHICH INCLUDES ANY AND ALL OTHER PARTIES CONTRACTUALLY OBLIGATED TO THE GENERAL CONTRACTOR TO COMPLETE THIS PROJECT.

I.O3 THE CONTRACT DOCUMENTS ARE DESIGNED IN ACCORDANCE WITH ALL GOVERNING CODES, REGULATIONS, CITIES, MUNICIPALITIES AND BUILDING OFFICIALS HAVING JURISDICTION. THE GENERAL CONTRACTOR SHALL CONSTRUCT AND BE RESPONSIBLE FOR THE BUILDING AND ALL RELATED SITE WORK. THE CONTRACTOR SHALL COORDINATE WORK WITH EACH APPROPRIATE TRADE DISCIPLINE TO ASSURE NO CONFLICT OR OMISSION OF ANY REQUIRED OR SPECIFIED COMPONENT FOR A COMPLETE AND FUNCTIONAL PROJECT.

I.O4 BEFORE COMMENCEMENT OF ANY WORK ON THE SITE, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE FAMILIAR WITH ALL THE CONDITIONS OF THIS PROJECT; THE CONTRACTORS AND SUBCONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS AND OTHER CONTRACT DOCUMENTS RELATIVE TO THE PORTION OF THE WORK, AS WELL AS ANY INFORMATION FURNISHED BY THE OWNER, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK AND SHALL OBSERVE ANY CONDITION AT THE SITE AFFECTING IT. THESE OBLIGATIONS ARE FOR THE PURPOSE OF FACILITATING CONSTRUCTION BY THE CONTRACTORS AND ARE NOT FOR THE PURPOSE OF DISCOVERING ERRORS, OMISSIONS, AND INCONSISTENCIES IN THE CONTRACT DOCUMENTS; HOWEVER ANY ERRORS, INCONSISTENCIES OR OMISSIONS FOUND BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT. WHERE THE CONTRACTOR OR SUBCONTRACTORS ELECT NOT TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR NOTIFY THE ARCHITECT OF RECORD OR THE OWNER OF ANY DISCREPANCIES, THE GENERAL CONTRACTOR OR SUBCONTRACTOR WILL ASSUME ANY AND ALL LIABILITIES FOR ANY AND ALL CORRECTIONS, REPLACEMENTS AND LABOR TO MAKE-WORK IN ACCORDANCE TO CONTRACT DOCUMENTS.

1.05 GENERAL CONTRACTOR AND SUBCONTRACTORS TO PROVIDE ALL REQUIRED OR NECESSARY MATERIALS, EQUIPMENT OR COMPONENTS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, INCLUDING ALL OBVIOUSLY NECESSARY ITEMS EVEN THOUGH SUCH ITEMS ARE NOT INDICATED WITHIN THE CONSTRUCTION DOCUMENTS. ALL CONSTRUCTION METHODS, MATERIALS, ETC. SHALL MEET OR EXCEED ANY AND ALL APPLICABLE BUILDING CODES, STANDARDS AND OR ORDINANCES.

1.06 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTOR. TO BID AND BUILD FROM THE MOST UP-TO-DATE AND COMPLETE SET OF CONSTRUCTION DOCUMENTS. THE RELEASE AND USE OF PARTIAL SETS OF CONSTRUCTION DOCUMENTS DURING BIDDING AND/OR CONSTRUCTION SHALL NOT RELIEVE THE GENERAL CONTRACTOR OR SUBCONTRACTOR OF THEIR RESPONSIBILITY FOR THEIR WORK OR THE FLAT FINISH, HARDWARE AND SEALERS AS PER PLANS. COORDINATION OF IT WITH WORK BY ALL TRADES.

1.07 WRITTEN DIMENSIONS GOVERN, DO NOT SCALE DRAWINGS. IF REQUIRED DIMENSIONS ARE NOT INDICATED OR DIMENSIONS CONFLICT OR SEEM TO BE IN ERROR, PROMPTLY NOTIFY THE ARCHITECT FOR RESOLUTION.

1.08 IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, SUBCONTRACTOR AND ALL THEIR FORCES TO BE AWARE OF ALL COMMENTS MADE BY THE JURISDICTIONAL BUILDING DEPARTMENT UPON THE OFFICIAL SIGNED AND SEALED CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL MAINTAIN A PROJECT FIELD SET AND SHALL INCORPORATE ALL APPROVED CHANGES WITHIN THE SCOPE OF WORK. IT SHALL ALSO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE ARCHITECT OF ANY AND ALL FIELD CHANGES ORDERED BY THE JURISDICTIONAL INSPECTORS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE WORK REQUIRED BY THESE DOCUMENTS WITH ALL TRADES INCLUDING AND NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING ELECTRICAL AND CIVIL DISCIPLINES.

1.09 STANDARDS CITED HEREIN: THE CODES, SPECIFICATIONS AND OTHER STANDARDS NOTED AND CITED IN THESE CONTRACT DOCUMENT AS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE HEREIN INCORPORATED AS IF FULLY SET FORTH IN DOCUMENT. THESE NOTES PROVIDE SUPPLEMENTAL INFORMATION NECESSARY FOR THE APPLICATION OF THESE CODES, SPECIFICATIONS AND OTHER STANDARDS BY THE GENERAL CONTRACTOR AND SUBCONTRACTOR AND EMPHASIZE CERTAIN REQUIREMENTS OF THESE CODES SPECIFICATIONS AND STANDARDS THESE NOTES SHALL NOT BE CONSTRUED BY ANYONE TO BE ALL-INCLUSIVE OF, OR O REPLACE OR ALLEVIATE, IN WHOLE OR PART, ANY OF THE CODES, SPECIFICATIONS AND STANDARDS CITED HEREIN. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE KNOWLEDGEABLE OF, AND SHALL AVAIL THEMSELVES O THESE CODES SPECIFICATIONS AND OTHER STANDARDS AND APPLY THEM TO THE WORK

.10 SUBSTITUTIONS RECEIVED AFTER BIDDING WILL BE REVIEWED AT THE DISCRETION OF THE ARCHITECT. ALL SUBSTITUTIONS MUST BE EQUAL OR BETTER THAN ITEM SPECIFIED DEMONSTRATING COMPATIBILITY OF PERFORMANCE, OPERATION AND AESTHETIC QUALITY TO THAT OF THE SPECIFIED ITEM. SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT IN THE FORM OF AN 'ALTERNATE TO CONSTRUCTION DOCUMENTS SPECIFICATION" LETTER STATING EACH ITEM TO BE SUBSTITUTED, ALONG WITH CUT SHEETS FOR BOTH THE SPECIFIED

PRODUCT AND ALTERNATE. ALLOW TEN (10) DAYS REVIEW PERIOD FROM ARCHITECT'S RECEIPT OF SUBSTITUTION SUBMITTAL. ARCHITECT WILL DETERMINE ACCEPTABILITY OF ANY AND ALL SUBSTITUTIONS. ALL APPROVALS FOR SUBSTITUTIONS MUST BE OBTAINED PRIOR TO SUBMITTAL FOR SHOP DRAWING EVIEW. THE CONTRACTOR AND SUBCONTRACTORS BEAR ALL ADDITIONAL COSTS OF UNACCEPTABLE SUBSTITUTION IF USED IN ORIGINAL BID BEARS ALL ADDITIONAL COST FOR REMEDY IF UNAPPROVED SUBSTITUTION IS UTILIZED, DISCOVERED AND

SUB-CONTRACTORS LACK OF PROPER AND TIMELY ORDERING, SCHEDULING AND/OR . I I SUBMIT FIVE (5) COPIES OF ALL SHOP DRAWINGS AND SIX (6) COPIES OF ALL PRODUCT SUBMITTALS REQUESTED BY THE ARCHITECT AND/OR THE JURISDICTIONAL AUTHORITY AND/OR GENERAL CONTRACTOR, REQUIRED FOR ALL CUSTOM FABRICATED WORK OR AS REQUESTED HEREIN. A MINIMUM OF TEN (10) WORKING

DAYS SHOULD BE ESTIMATED FOR PROPER REVIEW OF SHOP DRAWINGS AND

UNACCEPTABLE. SUBSTITUTIONS WILL NOT BE CONSIDERED DUE TO

1.12 THE FOLLOWING SHOP DRAWINGS WILL BE REQUIRED FOR THE RELATED WORK (THE PRODUCTION OF THE REQUIRED SHOP DRAWING SHALL NOT BE CONSIDERED ANY EXTRA) THE FOLLOWING PRODUCT SUBMITTAL CUT SHEETS WILL

BE REQUIRED FOR THE RELATED WORK: ELECTRICAL SWITCHGEAR, LIGHTING, FIRE ALARM, HVAC EQUIPMENT, ROOF MEMBRANE, INSULATION AND FLASHINGS, CONCRETE, DOOR AND HARDWARE, RESTROOM ACCESSORIES AND FINISHES, STRUCTURAL STEEL, REINFORCED STEEL, MISCELLANEOUS STEEL, GLAZING SYSTEMS, CONCRETE, PLUMBING, WATERPROOFING SYSTEMS, MILLWORK, FIRE SPRINKLER, FOUNTAINS / FOUNTAIN COMPONENTS AND EXTERIOR FINISH.

1.13 THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL ACQUIRE ALL NECESSARY PRODUCT APPROVALS USED AND INSTALLED ON THIS PROJECT AS WELL AS ANY ADDITIONAL COUNTY AND LOCAL JURISDICTION REQUIRING ADDITIONAL DATA, CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER TO CERTIFY APPLICATION OF SAID PRODUCT IN ACCORDANCE TO THE CODE HAVING JURISDICTION.

1.14 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND 7.03 ROOFING SYSTEM-SUBCONTRACTORS TO REVIEW ALL SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING SAME TO THE ARCHITECT. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ACTUAL EXISTING CONDITIONS RELATING TO SHOP DRAWINGS AND/OR SUBMITTALS.

1.15 WORK SHALL NOT COMMENCE WITHOUT RELATED SHOP DRAWINGS AND/OR SUBMITTALS BEING APPROVED. THE GENERAL CONTRACTOR AND SUBCONTRACTORS BEAR RESPONSIBILITY OF ALL COSTS IF CHANGES ARE REQUIRED OF WORK THAT HAS BEEN PERFORMED WITHOUT PRIOR REVIEW AND APPROVAL OF SHOP DRAWINGS AND/OR SUBMITTALS.

I.IG ALL MATERIALS SHALL BE NEW, FREE OF ALL DEFECTS AND SUITABLE FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS ANDZ INDUSTRY STANDARDS.

1.17 THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PREPARE AND MAINTAIN THROUGH-OUT THE LENGTH OF CONSTRUCTION A FULL AND CURRENT SET OF ACCURATE "AS-BUILT" DRAWINGS. UPON COMPLETION OF THIS PROJECT SUCH DRAWINGS WILL BE PRESENTED TO THE OWNER FOR HIS PERMANENT RECORDS AND INFORMATION.

2.01 REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL REQUIREMENTS AND

2.02 THE SOIL PAD UNDER ALL NEW INTERIOR FLOOR SLABS AND ALL FOUNDATION WALLS SHALL RECEIVE AN APPLIED SOIL POISONING TREATMENT TO PREVENT THE INFESTATION OF SUBTERRANEAN TERMITES. PROVIDE MATERIAL AND CHEMICALS APPROVED BY APA FOR THIS TYPE OF APPLICATION.

3.01 REFER TO THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS AND STANDARDS RELATING TO CONCRETE.

3.02 INTERIOR CONCRETE FLOOR SLABS SHALL HAVE A SMOOTH STEEL TROWELED

3.03 EXTERIOR CONCRETE SLABS SHALL RECEIVE LIGHT BROOM FINISH.

3.04 CONCRETE CONSTRUCTION JOINTS SHALL BE KEYED, AND EXPANSION JOINT FILLER INSTALLED IN A MANNER AS PER ACSI AND ACI STANDARDS.

4.01 PROVIDE AND INSTALL ALL CONCRETE MASONRY UNITS, MORTAR REINFORCEMENTS AND RELATED MATERIALS REQUIRED FOR THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS.

5.01 PROVIDE ALL STRUCTURAL STEEL, MISCELLANEOUS METALS, METAL DECKING, PLATES, BOLTS, ETC., REQUIRED FOR THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS OR REQUIRED FOR A COMPLETE AND OPERATIONAL FACILITY.

5.02 ALL MATERIALS SHALL BE NEW. SUITABLE FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.

5.03 ALL STRUCTURAL STEEL STUDS SHALL BE GALVANIZED, SIZES AND GAUGE AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

5.04 ALL EXPOSED STEEL USED AS STRUCTURAL, DECORATIVE OR ARCHITECTURAL FEATURES SHALL BE MIN. G-90 GALVANIZED. FASTENERS USED IN EXPOSED CONDITION SHALL BE GALVANIZED UNLESS OTHERWISE INDICATE TO BE STAINLESS

6.01 PROVIDE ALL REQUIRED, NAILS, BOLTS, SCREWS, FRAMING ANCHORS, AND THE LIKE ITEMS NEEDED FOR ROUGH AND FINISHED CARPENTRY IN THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS OR REQUIRED FOR A COMPLETE AND OPERABLE FACILITY.

WATERPROOFING, ALL MEMBERS IN CONTACT WITH MASONRY, AND ALL MEMBERS LESS THAN 24" ABOVE THE GROUND SHALL BE PRESSURE TREATED. 6.04 SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES BY ANCHORING AND

6.03 ALL WOOD USED IN CONNECTION WITH ROOFING, FLASHING,

FASTENING AS INDICATED AND AS REQUIRED BY RECOGNIZED STANDARDS.

6.05 PROVIDE FIRE TREATED WOOD STUD EACH SIDE OF ALL RECESSED EQUIPMENT AND ACCESSORIES, DOOR JAMBS, ETC.

6.06 PROVIDE WOOD GROUNDS, NAILERS AND SLEEPERS WHERE INDICATED ON

DRAWINGS AND AS REQUIRED. PROVIDE ALL WORKMANSHIP IN ACCORDANCE WITH (AWI) AMERICAN WOODWORKING INSTITUTE AND (WIC) WOOD INSTITUTE OF CALIFORNIA, QUALITY STANDARDS. 6.07 WHERE WOOD IS REQUIRED AND IS CONCEALED SAID WOOD MUST BE FIRE

RETARDANT TREATED WOOD.

7.01 ALL NEW SLAB ON GRADE FLOORS TO BE UNDERLAYED WITH A VAPOR BARRIER, VAPOR BARRIER SHALL BE MIN. 6 MIL ("VISQUEEN") POLYETHYLENE AND

LOCATED BELOW ALL INTERIOR FLOOR SLABS, WITH OVERLAPPING OF MATERIAL NOT LESS THAN SIX INCHES (6") AND TAPPED SEALED.

7.02 PROVIDE ALL INSULATION WITH AN (AGED) R-VALUE. AS SPECIFIED WITHOUT GAPS OR VOIDS USING NEW AND UNDAMAGED MATERIALS.

FI-FOIL COMPANY, PO BOX 800, AUBURNDALE, FLORIDA 33823. TOLL FREE (800) 448-3401. PHONE (863) 965-1846. FAX (863) 967-0137. WEB SITE

WWW.FIFOIL.COM. E-MAIL CUSTSERV@FIFOIL.COM. REFLECTIVE INSULATION: FI-FOIL VR PLUS SHIELD. SUBMIT MANUFACTURER'S PRODUCT DATA, INCLUDING INSTALLATION INSTRUCTIONS. INDICATE COMPLIANCE

WITH MATERIAL REQUIREMENTS.

MANUFACTURER: JOHNS MANVILLE

SYSTEM:SINGLE PLY 60 MIL TPO - WHITE

8.01 PROVIDE SIGNED AND SEALED CALCULATIONS BY A FLORIDA REGISTERED STRUCTURAL ENGINEER FOR STOREFRONT SYSTEM. ENGINEER TO CALCULATE MINIMUM WIND LOAD REQUIREMENTS IN ACCORDANCE WITH ASCE

REQUIREMENTS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.

8.02 ALUMINUM STOREFRONT ENTRY DOORS SHALL BE UNLESS OTHERWISE NOTED ALUMINUM STOREFRONT ENTRY DOOR AND FRAME. MANUFACTURER COLOR, -ANODIZED FINISH TO RESIST WIND LOADS AS PER CODE. LOW-E GLASS COMPOSITION, INCLUDING LAMINATION OF INTERLAYER AND INBOUND GLAZING AS REQUIRED FOR WINDOW SYSTEM. GLAZING MINIMUM SHADING COEFFICIENT OF .80. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL RELATED HARDWARE AND

8.03 ALUMINUM STOREFRONT WINDOW SYSTEMS TO BE FIXED WITH ANODIZED FINISH ALUMINUM FRAME AND MULLIONS, LOW-E CLEAR GLASS WITH TINT, IMPACT RESISTANT TO MEET DADE COUNTY APPROVAL. PROVIDED WITH THE SAME GLASS AS DESCRIBED FOR ENTRY DOORS HEREIN, SHALL RESIST WIND LOADS AS REQUIRED FOR THIS PROJECT AND INSTALLED AS PER MANUFACTURER SPECS. AND PRODUCT APPROVAL REQUIREMENTS. SEE DOOR SCHEDULE FOR DOOR SIZES.

8.04 HOLLOW METAL DOORS AND FRAMES SHALL BE AS DESCRIBED HEREIN, 18 GAUGE DOORS WITH 16-GAUGE FRAMES MINIMUM G-90 GALVANIZED METAL, SHOP PRIMED. INSTALLATION SHALL INCLUDE ALL REQUIRED ACCESSORIES AND SHALL BE AS PER INDUSTRY STANDARDS. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL RELATED HARDWARE AND ACCESSORIES. ALL STEEL DOORS TO BE PROVIDED WITH A CURRENT PRODUCT APPROVAL. MEETING THE MINIMUM REQUIRED WIND PRESSURE AS INDICATED ON DRAWINGS.

8.05 GLAZING DESCRIPTION: PROVIDE GLASS AND GLAZING THAT HAS BEEN PRODUCED. FABRICATED AND INSTALLED TO WITHSTAND NORMAL THERMAL MOVEMENT, WIND LOADING AND IMPACT LOADING (WHERE APPLICABLE), WITHOUT FAILURE INCLUDING LOSS OR BREAKAGE OF GLASS, FAILURE OF SEALANTS OR GASKETS TO REMAIN WATERTIGHT AND AIRTIGHT, DETERIORATION OF GLASS AND GLAZING MATERIALS, AND OTHER DEFECTS IN THE WORK.

8.06 GLAZING STANDARDS: COMPLY WITH RECOMMENDATION OF FLAT GLASS MARKETING ASSOCIATION (FGMA) "GLAZING MANUAL" AND "SEALANT MANUAL" -EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. REFER TO THOSE PUBLICATIONS FOR DEFINITIONS OF GLASS AND GLAZING TERMS NOT OTHERWISE DEFINED IN THIS SECTION OR OTHER REFERENCED STANDARDS.

8.07 GLAZING LABELING: EACH PIECE OF GLASS SHALL BE PERMANENTLY LABELED WITH MANUFACTURER'S NAME AND PRODUCT NAME, UL LOGO, AND FIRE-RATING.

9.05 PROVIDE PAINT SYSTEM BEST COMMERCIAL SERIES PAINT SYSTEMS BY SHERWIN WILLIAMS, OR APPROVED EQUAL. SYSTEMS TO BE BASED AS FOLLOWS; · EXTERIOR FINISH OVER STUCCO - LOXON SYSTEM · EXTERIOR FINISH OVER METALS - 2 COAT SYSTEM - GLOSS - INDUSTRIAL SERIES

· INTERIOR FINISH OVER DRYWALL - 3 COAT SYSTEM - FLAT ACRYLIC LATEX. INTERIOR WOOD TRIM AND DOORS - PRIMED AND 2 COAT SEMI GLOSS LATEX · ALL OTHER AREAS TO BE PER ARCHITECTS APPROVAL

9.06 CERAMIC TILE - STATIC COEFFICIENT OF FRICTION: FOR TILE INSTALLED ON WALKING SURFACES, PROVIDE PRODUCTS WITH THE E FOLLOWING MINIMUM VALUES AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM C-1028. LEVEL SURFACE: MIN. O.6

9.07 RESILIENT TILE: PROVIDE PRODUCTS COMPLYING WITH ASTM F1066, CLASS 2 THROUGH PATTERN, COMPOSED OF VINYL RESIN, REINFORCING FIBERS, COLOR, PIGMENTS, AND INERT FILLER, MARBLEIZED PATTERN, SURFACE DESIGN WITH COLOR AND DESIGN CONTINUING THROUGH THE FULL THICKNESS OF THE TILE; WITHOUT VARIATION FROM SURFACE COLOR AND DESIGN, MINIMUM SIZE 12 INCH X 12 INCH X

9.08 RESILIENT BASE: WALL BASE: PROVIDE PREFORMED (A.K.A. MOLDED) RUBBER COVE BASE 4 INCHES HIGH X 1/8 THICK, STANDARD TOE, MATTE FINISH COMPLYING WITH ASTM F1861, TYPE TS (THERMOSET), STYLE B (COVE) INSTALLED LENGTHS AS LONG AS PRACTICABLE FROM ROLL STOCK; COLOR AS SELECTED BY CONSULTANT FROM MANUFACTURER'S STANDARD RANGE OF COLORS.

9.09 ALL CEILING MATERIALS, HEIGHTS AND LOCATIONS ARE DESCRIBED HEREIN CEILING SYSTEM TO BE INSTALLED WITH ALL REQUIRED ACCESSORIES AS PER INDUSTRY STANDARDS. FINISH TO BE SMOOTH ONE COAT FINISH SYSTEM FOR AREAS INDICATED ON DRAWINGS.

DESIGNED DRAWN CHECKED GRC PJB180222 REVISIONS

- PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY CLEARANCES OF DUCTWORK AND LIGHTS. REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO CONSTRUCTION.
- INTERIOR WALL AND CEILING FINISHES COMPLYING WITH NFPA TO I CHAPTER 10.2.3 SHALL BE CLASS A OR CLASS B IN EXITS AND IN ENCLOSED CORRIDORS FURNISHING ACCESS TO EXITS; AND CLASS A, CLASS B, CLASS C IN OFFICE AREAS.
- INTERIOR FLOOR FINISH COMPLYING WITH NFPA 101 CHAPTER 10.2.7 SHALL BE CLASS I OR CLASS II IN CORRIDORS AND EXITS.
- CONTRACTOR TO COORDINATE CABINET INSTALLATION WITH ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL DRAWINGS AND CABINET SHOP
- CONTRACTOR TO COORDINATE ALL INTERIOR BUILT-IN'S AND INTERIOR FINISHES - FLOORING, CEILINGS, PAINT, PLASTIC LAMINATING, ETC. - COLOR AND STYLE WITH TENANT / OWNER PRIOR TO FABRICATION AND/OR INSTALLATION.
- PIPES AND WIRES PASSING THROUGH FIRE RATED PARTITION ASSEMBLIES ARE TO BE PROTECTED AS PER F.B.C. SECTIONS 705.5.1.2 AND 705.6.1. SEE SHEET A-501.1 FOR DETAIL.

- ONE FIRE EXTINGUISHER MUST BE LOCATED PER 2500 SQ. FT. OF FLOOR. SPACE WITH A MAXIMUM OF 75' FROM ANY ONE POINT IN THIS SPACE.
- FIRE EXTINGUISHERS SHALL BE MOUNTED NOT TO EXCEED 48" A.F.F. AND SHALL BE CURRENTLY DATED AND TAGGED BY LICENSED FIRE EQUIPMENT

(FE) = LOCATION OF FIRE EXTINGUISHER

- PORTABLE FIRE EXTINGUISHERS COMPLYING WITH NFPA 1, 16.3.9.1, 16.3.9.3 16.3.9.4 AND NFPA 1141 SECTION 10.1.5, 10.1.5.1 AND NFPA 101 SEC. 9.7.4.1 (2017 ED.) SHALL BE INSTALLED DURING CONSTRUCTION. MOUNTING HEIGHT SHALL MEET NFPA-10.
- FLAMMABLE AND COMBUSTIBLE MATERIALS, IF USED DURING CONSTRUCTION, SHALL BE HANDLED AND STORED IN ACCORDANCE WITH NFPA 30.
- SEE PLUMBING PLANS TO CONFIRM WET COLUMN AND RAINWATER LEADER LOCATIONS FOR BOX-OUTS.
- THIS BUILDING IS PROTECTED BY SUPERVISED AUTOMATIC SPRINKLER SYSTEM (CONTRACTOR TO VERIFY SYSTEM CORRECT OPERATION PRIOR TO COMMENCEMENT OF CONSTRUCTION) ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED WOOD.
- FACILITIES SHALL CONSIST OF DOORS, WALKWAYS, STAIRS, RAMPS, FIRE ESCAPES LADDERS, OR OTHER APPROVED MEANS OR DEVICES ARRANGED IN ACCORDANCE WITH

ALTERATION, AND DEMOLITION OPERATIONS

THE GENERAL PRINCIPLES OF NATIONAL FIRE PROTECTION ASSOCIATION 101, LIFE SAFETY CODE®, INSOFAR AS THEY CAN REASONABLY BE APPLIED TO BUILDINGS UNDER PER N.F.P.A. I I 4 I SECTION 3-9.6 AT LEAST ONE PORTABLE FIRE EXTINGUISHER HAVING A RATING OF AT LEAST 4-A, 30-BC SHALL BE WITHIN A TRAVEL DISTANCE OF 75 FT OR

IN BUILDINGS UNDER CONSTRUCTION, ADEQUATE ESCAPE FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE USE OF CONSTRUCTION WORKERS. ESCAPE

LESS TO ANY POINT OF A STRUCTURE UNDER CONSTRUCTION. PERSONNEL NORMALLY N THE CONSTRUCTION SITE SHALL BE INSTRUCTED IN THE USE OF THE FIRE EXTINGUISHER PROVIDED.

THIS PROJECT SHALL CONFORM TO ALL SAFEGUARD CONSTRUCTION REQUIREMENTS AS

STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NATIONAL FIRE

PROTECTION ASSOCIATION 241, STANDARD FOR SAFEGUARDING CONSTRUCTION,

PER CHAPTER 33 OF THE 2017 F.B.C. AND ALL PREVAILING CODES UNDER THIS

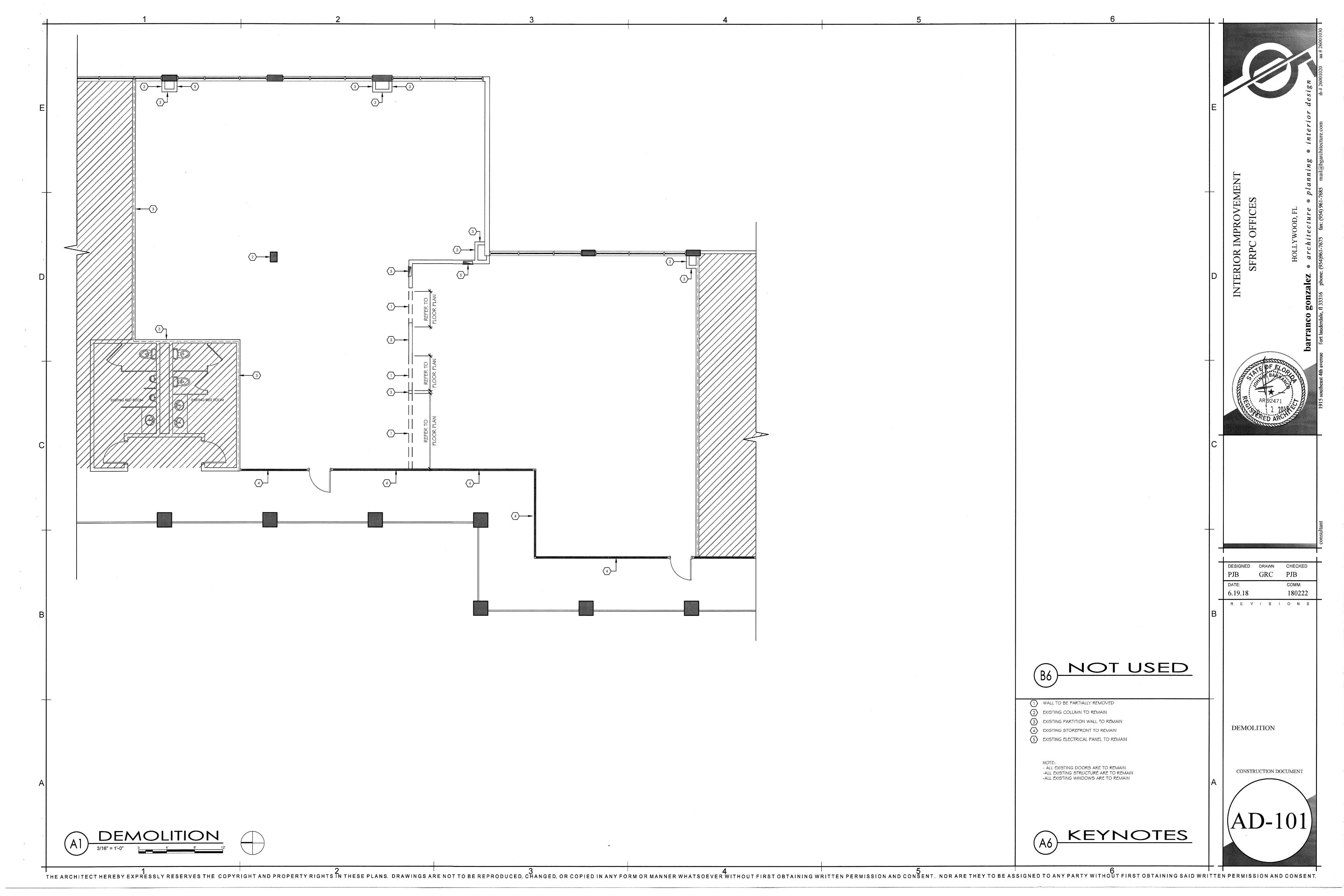
FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AT THE START OF THIS PROJECT AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. PERMANENT FIRE DEPARTMENT ACCESS ROAD MARKINGS SHALL NOT BE REQUIRED UNTIL BUILDING IS

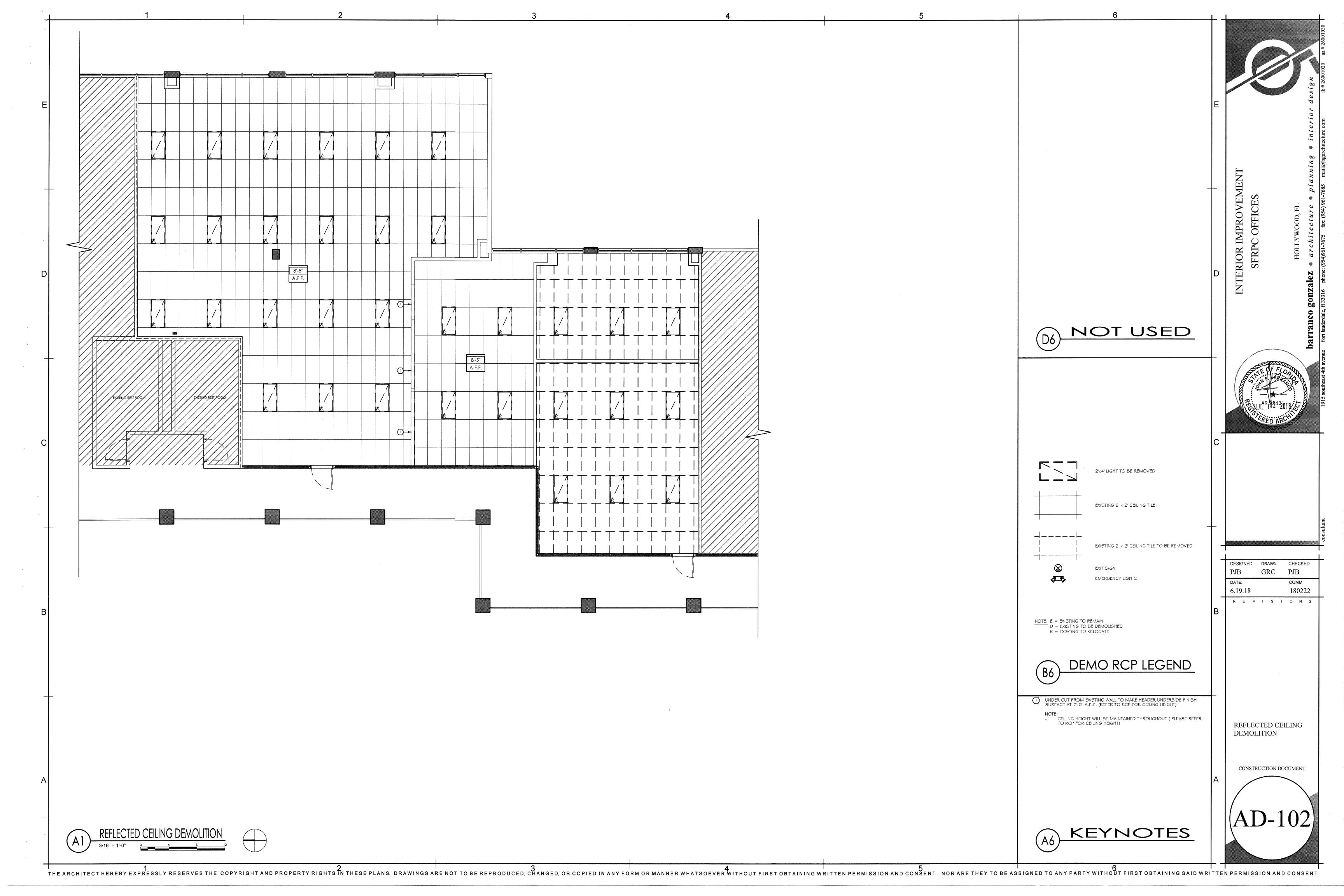
GENERAL NOTES &

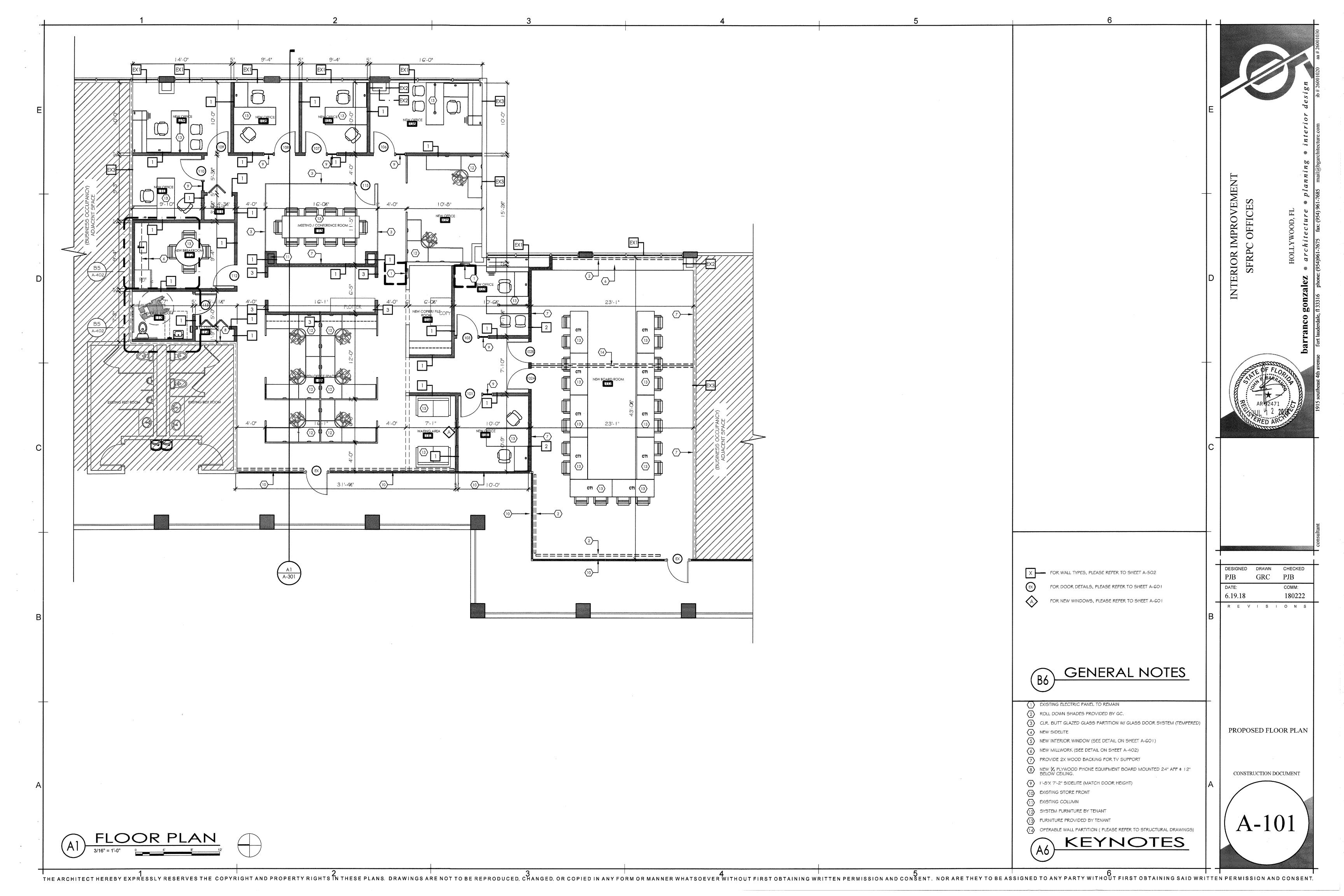
SPECIFICATIONS

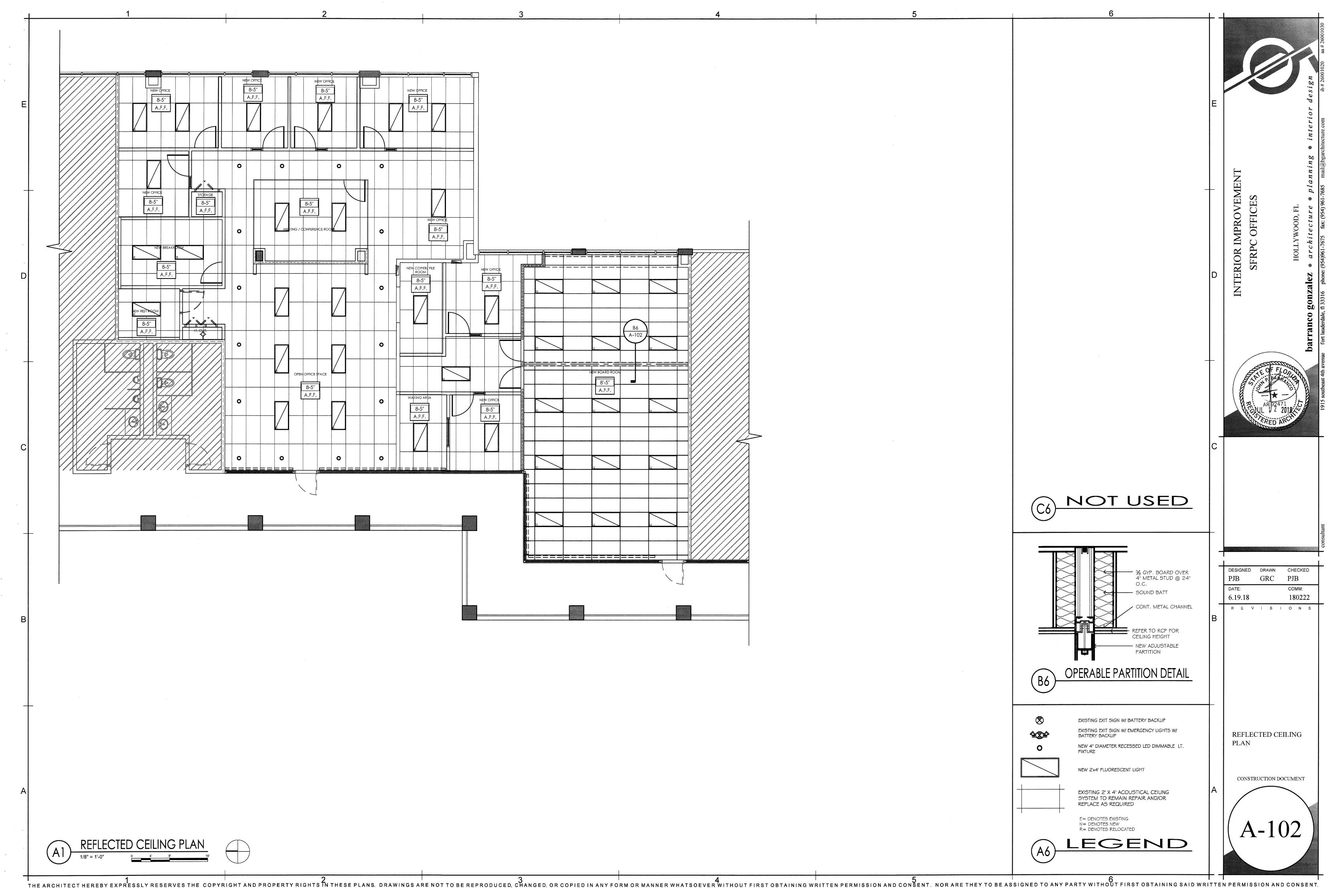
CONSTRUCTION DOCUMENT

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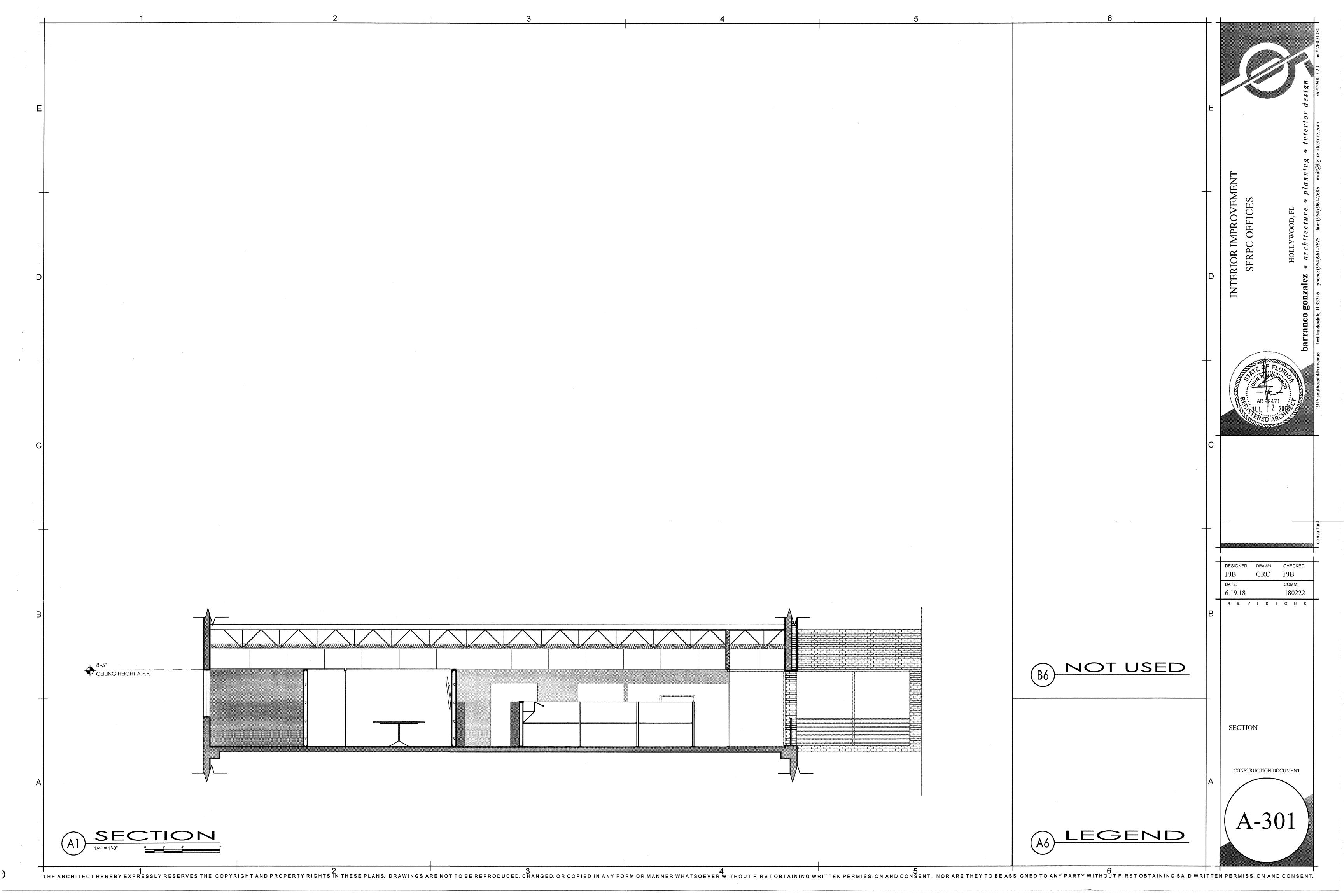


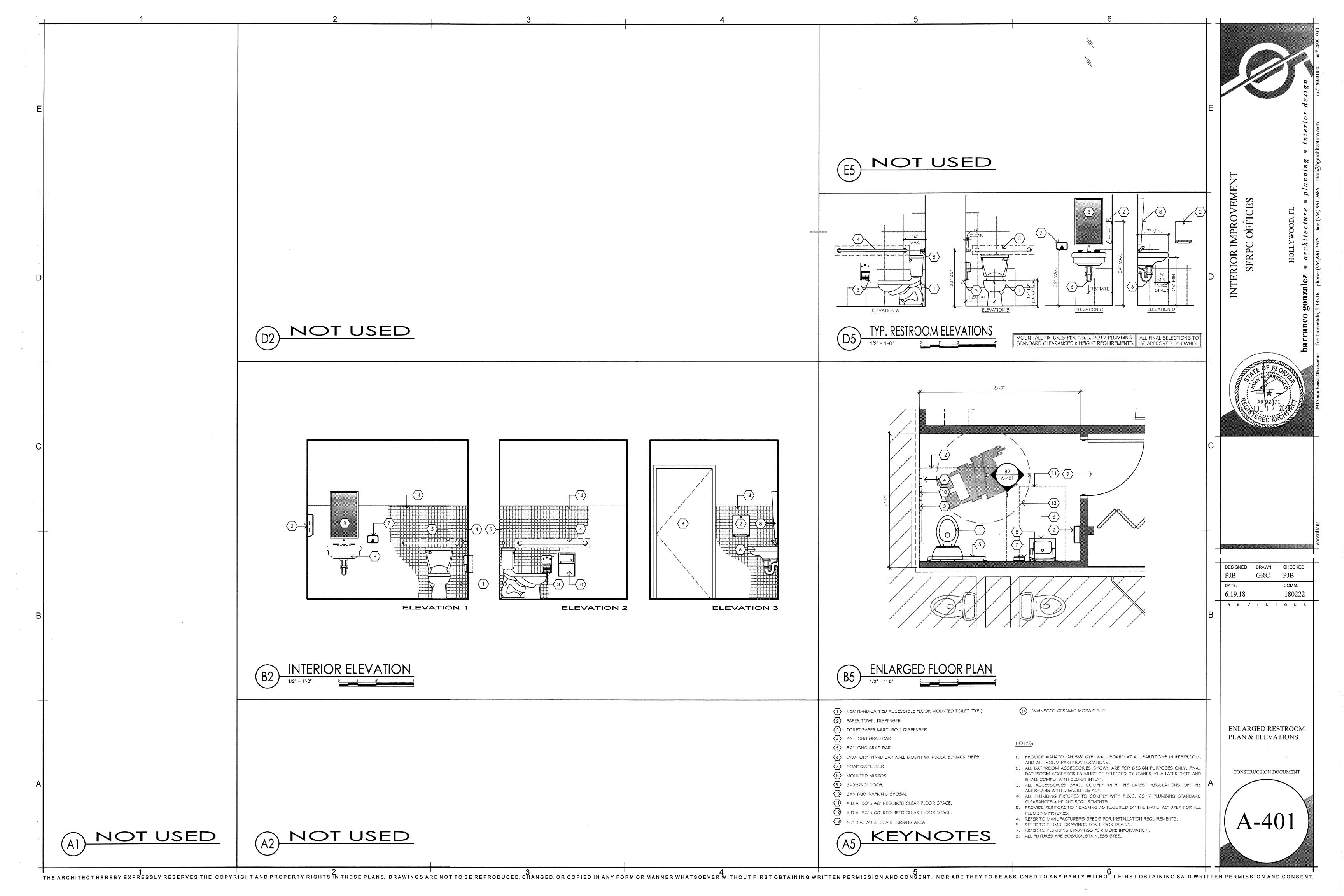


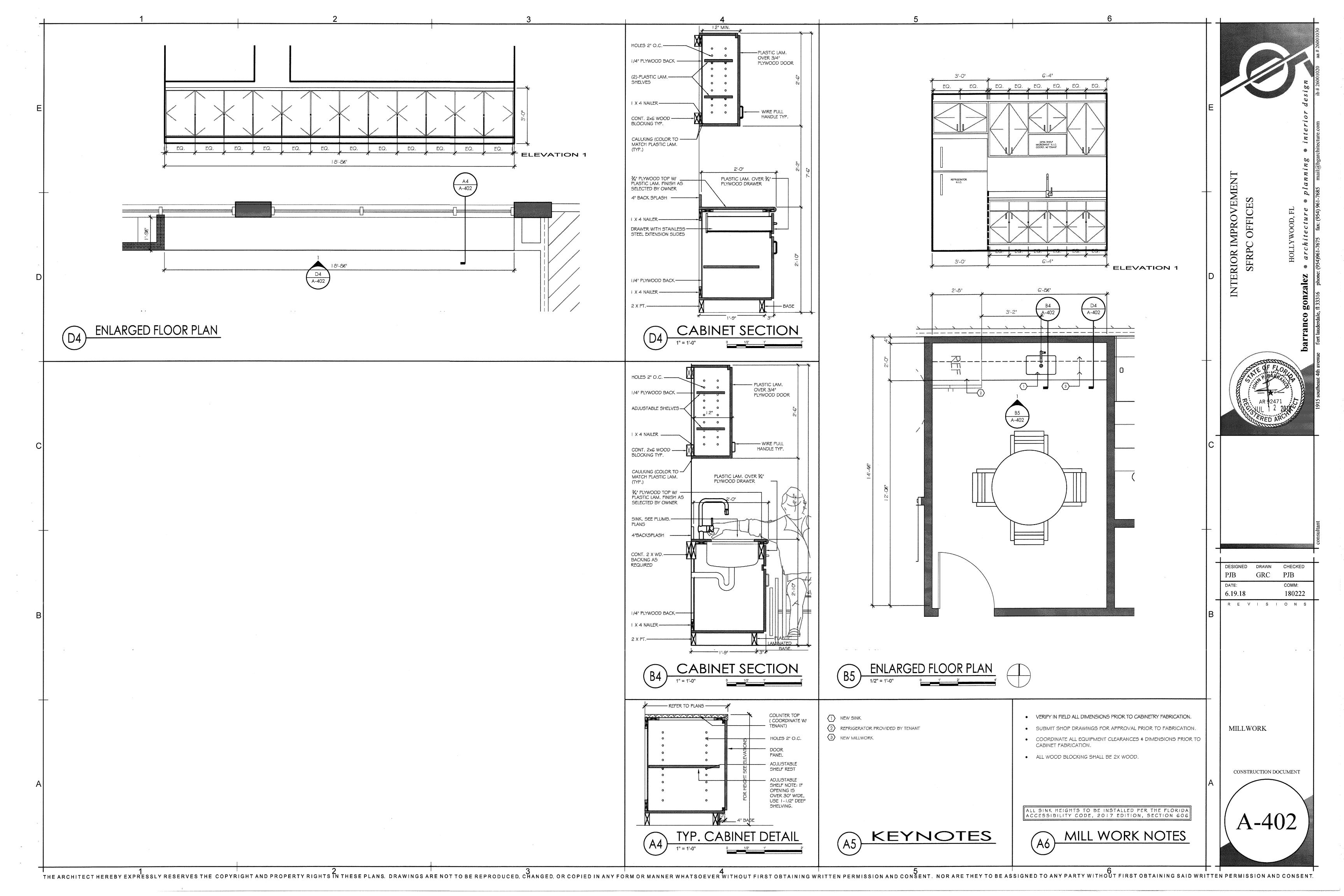




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1. FLOOR AND CEILING RUNNERS -- (NOT SHOWN) -- FOR USE WITH ITEM 2 - CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL. MIN DEPTH TO ACCOMMODATE STUD SIZE, WITH MIN 1-1/4 IN. LONG LEGS, ATTACHED TO FLOOR

A, FRAMING MEMBERS* - FLOOR AND CEILING RUNNERS -- NOT SHOWN - IN LIEU OF ITEM I -- FOR USE WITH ITEM 2A, PROPRIETARY CHANNEL SHAPED, MIN, 3-5/8 IN, DEEP, FABRICATED FROM MIN. O.O.I.5 IN. (MIN BARE METAL THICKNESS) GALVANIZED STEEL. ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. OC MAX. EFFECTIVE

CLARKWESTERN BUILDING SYSTEMS INC -- ULTRASTEEL® DIETRICH INDUSTRIES INC -- ULTRASTEEL®

I.B. FRAMING MEMBERS* - FLOOR AND CEILING RUNNERS -- (NOT SHOWN - IN LIEU OF IP-X3 OR ULTRACODE ITEM 1) -- FOR USE WITH ITEM 2A, PROPRIETARY CHANNEL SHAPED, MIN. 2-1/2 IN. DEEP, FABRICATED FROM MIN. O.015 IN. (MIN BARE METAL THICKNESS) GALVANIZED STEEL, ATTACHED TO FLOOR AND CEILING FASTENERS 24 IN. OC. MAX. EFFECTIVE THICKNESS IS 0.034 IN.

CLARKWESTERN BUILDING SYSTEMS INC -- ULTRASTEEL® DIETRICH INDUSTRIES INC --ULTRASTEEL®. C. FRAMING MEMBERS" - FLOOR AND CEILING RUNNER -- NOT SHOWN - IN LIEU OF ITEM

-- FOR USE WITH ITEM 2C, PROPRIETARY CHANNEL SHAPED RUNNERS, 3-5/8 IN. DEEP ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. OC MAX. CALIFORNIA EXPANDED METAL PRODUCTS CO -- VIPERTRACK™ CRACO MFG INC --SMARTTRACK™ MARINOWARE A DIV OF WARE INDUSTRIES INC -- VIPER25™ TRACK

I.D. FRAMING MEMBERS" - FLOOR AND CEILING RUNNER -- NOT SHOWN - IN LIEU OF ITEM 5B. GYPSUM BOARD" -- (NOT SHOWN) - AS AN ALTERNATE TO ITEM 5 WHEN USED AS I -- FOR USE WITH ITEM 2D, PROPRIETARY CHANNEL SHAPED RUNNERS, I-1/4 IN. WIDE THE BASE LAYER ON ONE OR BOTH SIDES OF WALL WHEN 5/8 IN OR 3/4 IN. THICK BY 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 MARINO\WARE A DIV OF WARE INDUSTRIES INC -- VIPER2OS™ TRACK, VIPER2OD™ TRACK I.E. FRAMING MEMBERS*-- FLOOR AND CEILING RUNNERS -- (NOT SHOWN) -- IN LIEU OF WALL TABLE, NOM 5/8 IN. OR 3/4 IN. THICK LEAD BACKED GYPSUM PANELS WITH

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 IF. FLOOR AND CEILING RUNNERS -- (NOT SHOWN)--FOR USE WITH ITEM 2B- 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. SHAPED, FABRICATED FROM MIN. O.O.I.5 IN. (MIN BARE METAL THICKNESS) GALVANIZED STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. OC. MAX. CLARKWESTERN BUILDING SYSTEMS INC -- CW PROTRAK

DIETRICH INDUSTRIES INC -- DIETRICH PROTRAK DMFCWBS L L C -- PROTRAK. TELLING INDUSTRIES L L C -- TRUE-TRACK™ TO ACCOMMODATE STUD SIZE, WITH 1- 1/8 IN. LONG LEGS FABRICATED FROM MIN O.O.I.5 IN. (MIN BARE METAL THICKNESS) GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 24 IN, OC MAX

SUPER STUD BUILDING PRODUCTS -- THE EDGE MAX OF 24 IN. OC, STUDS TO BE CUT 3/8 TO 3/4 IN. LESS THAN ASSEMBLY HEIGHT. 2A. FRAMING MEMBERS* - STEEL STUDS -- IN LIEU OF ITEM 2 - PROPRIETARY CHANNEL SHAPED STUDS, MIN. DEPTH AS INDICATED UNDER ITEM 5, FABRICATED FROM MIN. BOARD AT THE CENTER OF EACH BOARD. GYPSUM BOARDS ARE TO BE SECURED TO THE 0.015 IN. (MIN BARE METAL THICKNESS) GALVANIZED STEEL, SPACED A MAX OF 24 IN. OC. STUDS TO BE CUT 3/4 IN. LESS THAN ASSEMBLY HEIGHT, ALLOWABLE USE OF STUDS IS SHOWN IN THE TABLE BELOW. FOR DIRECT ATTACHMENT OF GYPSUM BOARD ONLY. EFFECTIVE THICKNESS IS 0.034 IN.

CLARKWESTERN BUILDING SYSTEMS INC -- ULTRASTEEL® DIETRICH INDUSTRIES INC -- ULTRASTEEL®.

CALIFORNIA EXPANDED METAL PRODUCTS CO -- VIPERSTUD ™

2B. STEEL STUDS -- (AS AN ALTERNATE TO ITEM 2, FOR USE WITH ITEMS 5B \$ 5E) USG MEXICO S A DE C V -- TYPE SCX. 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

WITH A 1/2 IN. GAP BETWEEN THE END OF THE STUD AND TRACK AT THE BOTTOM OF THE WALL. FOR DIRECT ATTACHMENT OF GYPSUM BOARD ONLY

2D. FRAMING MEMBERS* - METAL STUDS -- NOT SHOWN - IN LIEU OF ITEM 2 -- FOR USE PERIMETER AND 12 IN. OC IN THE FIELD. WITH ITEM ID, PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN DEPTH AS INDICATED NEW ENGLAND LEAD BURNING CO INC, DBA UNDER ITEM 5, SPACED A MAX IF 24 IN. OC, FABRICATED FROM MIN 0.020 IN. THICK GALV STEEL, STUDS CUT 3/8 IN. TO 3/4 IN, LESS IN LENGTHS THAN ASSEMBLY HEIGHTS. MARINO\WARE A DIV OF WARE INDUSTRIES INC -- VIPER2OS™, VIPER2OD™ 2E. FRAMING MEMBERS*-- STEEL STUDS -- IN LIEU OF ITEM 2 - FOR USE WITH ITEM IE- TAPERED EDGES, APPLIED VERTICALLY, AND FASTENED TO THE STEEL STUDS WITH ! IN.

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 UNITED STATES GYPSUM CO -- 5/8 IN. THICK TYPE SCX.

SYSTEMS INC -- TYPE SUPREME FRAMING SYSTEM. UNITED METAL PRODUCTS INC --TYPE SUPREME FRAMING SYSTEM 2F. FRAMING MEMBERS*-- STEEL STUDS -- (NOT SHOWN, AS AN ALTERNATE TO ITEM 2) AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN --FOR USE WITH ITEM 1G AND 5F OR 5G ONLY, CHANNEL SHAPED STUDS, MIN DEPTH AS ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL INDICATED UNDER ITEM 5F, FABRICATED FROM MIN. O.015 IN. (MIN BARE METAL

THICKNESS) GALVANIZED STEEL, SPACED A MAX OF 24 IN. OC. STUDS TO BE CUT 3/4 IN. LESS THAN ASSEMBLY HEIGHT. CLARKWESTERN BUILDING SYSTEMS INC -- CW PROSTUD

DIETRICH INDUSTRIES INC -- DIETRICH PROSTUD

DMFCWBS L L C -- PROSTUD. TELLING INDUSTRIES L L C -- TRUE-STUD™ 2G. FRAMING MEMBERS* - METAL STUDS -- NOT SHOWN - IN LIEU OF ITEM 2 -- FOR USE WITH ITEM IH, PROPRIETARY CHANNEL SHAPED STEEL STUDS, MINIMUM WIDTH INDICATED UNDER ITEM 5, I-1/4 IN. DEEP FABRICATED FROM MIN 0.015 IN. (MIN BARE METAL THICKNESS) GALVANIZED STEEL. STUDS 3/8 IN. TO 3/4 IN. LESS IN LENGTHS THAN ASSEMBLY HEIGHTS

SUPER STUD BUILDING PRODUCTS -- THE EDGE 3. WOOD STRUCTURAL PANEL SHEATHING -- (OPTIONAL, FOR USE WITH ITEM 5 ONLY.)-(NOT SHOWN) - 4 FT WIDE, 7/16 IN. THICK ORIENTED STRAND BOARD (OSB) OR 15/32 IN. THICK STRUCTURAL I SHEATHING (PLYWOOD) COMPLYING WITH DOC PS I OR PS2, OR APA STANDARD PRP-108, MANUFACTURED WITH EXTERIOR GLUE, APPLIED HORIZONTALLY OR VERTICALLY TO THE STEEL STUDS. VERTICAL JOINTS CENTERED ON STUDS, AND STAGGERED ONE STUD SPACE FROM WALLBOARD JOINTS. ATTACHED TO STUDS WITH FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MIN. HEAD DIAM. OF 0.292 IN, AT MAXIMUM 6 IN, OC. IN THE PERIMETER AND 12 IN, OC. IN THE FIELD, WHEN USED, FASTENER LENGTHS FOR GYPSUM PANELS INCREASED BY MIN. 1/2 IN. 4. BATTS AND BLANKETS* -- (REQUIRED AS INDICATED UNDER ITEM 5) -- MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS, MIN NOM THICKNESS AS INDICATED UNDER ITEM 5. SEE BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES FOR

1 HR. FIRE RATED

NAMES OF CLASSIFIED COMPANIES.4A. BATTS AND BLANKETS* -- (OPTIONAL) -- PLACED CANADIAN GYPSUM COMPANY -- 1/2 IN. THICK TYPE C, IP-X2 OR IPC-AR;, 5/8 IN. THICK CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE ULTRACODE RESISTANCE. SEE BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

5. GYPSUM BOARD* -- GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND USG MEXICO S A DE C V -- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR; 5/8 IN. THICK TYPE STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, OR; 3/4 IN. THICK TYPES IP-X3 OR ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL ULTRACODE JOINTS NEED NOT BE BACKED BY STEEL FRAMING, HORIZONTAL EDGE JOINTS AND 6. FASTENERS -- (NOT SHOWN) -- FOR USE WITH ITEMS 2 AND 2F - TYPE S OR S-12 HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN OF 12 IN. THE THICKNESS AND NUMBER OF LAYERS FOR THE 1 HR, 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS: GYPSUM BOARD PROTECTION ON EACH SIDE OF WALL

Rating, Hr.	Min Stud Depth, in. Item 2 \$ 2E	Mın Stud Depth, in. Item 2A	No. of Layers \$ Thkns of Panel	Min Thkns of Insulation (Item 4)
ľ	3-1/2	3-5/8	l layer, 5/8 in. thick	Optional
!	2-1/2	3-5/8	l layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	l layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	l layer, 3/4 in. thick	3 m.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in thick	2 ın.

CANADIAN GYPSUM COMPANY -- 1/2 IN. THICK TYPE C, IP-X2 OR IPC-AR; WRC, 5/8 IN. THICK TYPE AR, C, IP-AR, IP-XI, IP-X2, IPC-AR, SCX, SHX, WRX OR WRC; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE UNITED STATES GYPSUM CO -- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR WRC; 5/8 IN. THICK TYPE SCX, SHX, WRX, IP-XI, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE USG MEXICO S A DE C V -- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR WRC; 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC OR; 3/4 IN. THICK TYPES WHEN ITEM 7B. STEEL FRAMING MEMBERS*. IS USED, NONBEARING WALL RATING IS LIMITED TO I HR. MIN. STUD DEPTH IS 3-1/2 IN., MIN, THICKNESS OF INSULATION (ITEM 4) IS 3 IN., AND TWO LAYERS OF GYPSUM BOARD PANELS (1/2 IN. OR 5/8 IN. THICK) SHALL BE ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 6. ONE LAYER OF GYPSUM BOARD PANELS (1/2 IN. OR 5/8 IN. THICK) ATTACHED TO OPPOSITE SIDE OF STUD WITHOUT FURRING CHANNELS AS DESCRIBED IN ITEM 6. 5A. GYPSUM BOARD* -- (AS AN ALTERNATE TO ITEM 5) -- 5/8 IN. THICK, 24 TO 54 IN. WIDE, APPLIED HORIZONTALLY AS THE OUTER LAYER TO ONE SIDE OF THE ASSEMBLY. SECURED AS DESCRIBED IN ITEM 6.

USG MEXICO S A DE C V -- TYPE SHX. PRODUCTS ARE SPECIFIED. FOR DIRECT ATTACHMENT ONLY TO STEEL STUDS ITEM 2B, (NOT TO BE USED WITH ITEM 3) - NOM 5/8 IN. OR 3/4 IN. MAY BE USED AS ALTERNATE TO ALL 5/8 IN. OR 3/4 IN. SHOWN IN ITEM 5. WALLBOARD PROTECTION ON EACH SIDE OF ITEM I - CHANNEL SHAPED, ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN I STUD CAVITY ON OPPOSITE SIDES OF STUDS. GYPSUM BOARD SECURED TO 20 MSG STEEL STUDS ITEM 2B WITH 1-1/4 IN. LONG TYPE 5-12 STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE

FIELD, TO BE USED WITH LEAD BATTEN STRIPS (SEE ITEM 11) OR LEAD DISCS OR TABS

(SEF ITEM 12). RAY-BAR ENGINEERING CORP -- TYPE RB-LBG 5C. GYPSUM BOARD* -- (FOR USE WITH ITEM 2C) RATING LIMITED TO I HOUR, 5/8 IN. THICK, 48 IN. WIDE, GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. (VERTICAL APPLICATION) - THE GYPSUM BOARD IS TO BE INSTALLED ON EACH SIDE OF THE STUDS WITH I IN, LONG TYPE S COATED STEEL SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE EDGE OF THE BOARD AT THE VERTICAL EDGES AND 12 IN, OC STARTING 6 IN. FROM THE EDGE OF THE BOARD AT IG. FRAMING MEMBERS*-- FLOOR AND CEILING RUNNERS -- (NOT SHOWN, AS AN THE CENTER OF EACH BOARD. GYPSUM BOARDS ARE TO BE SECURED TO THE TOP AND ALTERNATE TO ITEM 1) -- FOR USE WITH ITEM 2F AND 5F OR 5G ONLY, CHANNEL BOTTOM TRACK WITH SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE BOARD EDGE. FASTENERS SHALL NOT PENETRATE THROUGH BOTH THE STUD AND THE TRACK AT THE SAME TIME. VERTICAL JOINTS ARE TO BE CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. (HORIZONTAL APPLICATION) - THE FOR USE WITH ITEM 5A AND 5E. GYPSUM BOARD IS TO BE INSTALLED ON EACH SIDE OF THE STUDS WITH I IN. LONG B. STEEL FRAMING MEMBERS* -- USED TO ATTACH FURRING CHANNELS (ITEM 7BA) TO TYPE S COATED STEEL SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE EDGE OF ONE SIDE OF STUDS (ITEM 2) ONLY. CLIPS SPACED 48 IN. OC., AND SECURED TO IH. FRAMING MEMBERS* - FLOOR AND CEILING RUNNER -- NOT SHOWN - IN LIEU OF ITEM THE BOARD AT THE VERTICAL EDGES AND 12 IN. OC STARTING 6 IN. FROM THE EDGE OF STUDS WITH TWO NO. 8 X 2-1/2 IN. COARSE DRYWALL SCREWS, ONE THROUGH THE -- FOR USE WITH ITEM 2G, PROPRIETARY CHANNEL SHAPED RUNNERS, MINIMUM WIDTH THE BOARD AT THE CENTER OF EACH BOARD A THE TOP AND BOTTOM TRACK WITH SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE BOARD EDGE FASTENERS SHALL NOT PENETRATE THROUGH BOTH THE STUD AND THE TRACK AT THE 2. STEEL STUDS -- CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG STUD CAVITY ON OPPOSITE SIDES OF STUDS. (HORIZONTAL APPLICATION) - THE GYPSUM FRICTION FITTED INTO CLIPS, AND THEN CLIPS ARE SECURED TO THE STEEL STUD WITH CORROSION-PROTECTED STEEL, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A BOARD IS TO BE INSTALLED ON EACH SIDE OF THE STUDS WITH I IN. LONG TYPE S

SAME TIME. VERTICAL JOINTS ARE TO BE CENTERED OVER STUDS AND STAGGERED ONE COATED STEEL SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE EDGE OF THE BOARD AT THE VERTICAL EDGES AND 12 IN. OC STARTING 6 IN. FROM THE EDGE OF THE TOP AND BOTTOM TRACK WITH SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE BOARD EDGE, FASTENERS SHALL NOT PENETRATE THROUGH BOTH THE STUD AND THE TRACK AT THE SAME TIME. ALL HORIZONTAL JOINTS ARE TO BE BACKED AS OUTLINED UNDER SECTION VI OF VOLUME I IN THE FIRE RESISTIVE DIRECTORY. CANADIAN GYPSUM COMPANY -- TYPE SCX

UNITED STATES GYPSUM CO -- TYPE SCX.

CANADIAN GYPSUM COMPANY -- TYPE SHX.

UNITED STATES GYPSUM CO -- TYPE FRX-G, SHX.

5D. GYPSUM BOARD* -- (AS AN ALTERNATE TO ITEM 5) -- 5/8 IN. THICK, 48 IN. WIDE, APPLIED VERTICALLY OR HORIZONTALLY. SECURED AS DESCRIBED IN ITEM 6. FOR USE WITH ITEMS I AND 2 ONLY

UNITED STATES GYPSUM CO -- TYPE USGX 2C. FRAMING MEMBERS* - STEEL STUDS -- (AS AN ALTERNATE TO ITEM 2, FOR USE WITH 5E. GYPSUM BOARD* -- (NOT SHOWN) - (AS AN ALTERNATE TO ITEM 5 WHEN USED AS ITEM 5C) - PROPRIETARY CHANNEL SHAPED STUDS, 3-5/8 IN. DEEP SPACED A MAX OF THE BASE LAYER ON ONE OR BOTH SIDES OF WALL WHEN 1/2 IN. OR 5/8 IN THICK 24 IN. OC. STUDS TO BE CUT 3/4 IN LESS THAN THE ASSEMBLY HEIGHT AND INSTALLED PRODUCTS ARE SPECIFIED, FOR DIRECT ATTACHMENT ONLY TO STEEL STUDS ITEM 2B, NOT TO BE USED WITH ITEM 3), NOMINAL 5/8 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN ! STUD CAVITY ON OPPOSITE SIDES OF CRACO MFG INC -- SMARTSTUD™. MARINO\WARE A DIV OF WARE INDUSTRIES INC -- STUDS, WALLBOARD SECURED TO STUDS WITH 1-1/4 IN, LONG TYPE 5-12 (OR NO. 6 BY -1/4 IN. LONG BUGLE HEAD FINE DRILLER) STEEL SCREWS SPACED 8 IN. OC AT

5F. GYPSUM BOARD* -- (AS AN ALTERNATE TO ITEM 5) -- FOR USE WITH ITEMS IG AND 2F AND LIMITED TO ! HOUR RATING ONLY, GYPSUM PANELS WITH BEVELED, SQUARE OR CHANNEL SHAPED STUDS, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX OF LONG TYPE S SCREWS SPACED 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD, VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. STEEL STUD DEPTH SHALL BE A MINIMUM

MATERIALS INC -- TYPE SUPREME FRAMING SYSTEM. SCAFCO STEEL STUD 5G. GYPSUM BOARD* -- (AS AN ALTERNATE TO ITEM 5) -- FOR USE WITH ITEMS IG AND MANUFACTURING CO -- TYPE SUPREME FRAMING SYSTEM. STEEL CONSTRUCTION 2F ONLY, GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY, AS SPECIFIED IN THE TABLE BELOW AND FASTENED TO HE STEEL STUDS AS DESCRIBED IN ITEM 6. VERTICAL JOINTS CENTERED OVER STUDS JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN OF 12 IN. THE THICKNESS AND NUMBER OF LAYERS FOR THE 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS:

GYPSUM BOARD PROTECTION ON EACH SIDE OF WALL

Ratıng, Hr.	Min Stud Depth, in. Item 2F	No. of Layers * Thikness of Panel	Mın Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4 .	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

IN STUD CAVITIES, ANY GLASS FIBER OR MINERAL WOOL INSULATION BEARING THE UL TYPE AR, C, IP-AR, IP-XI, IP-X2, IPC-AR, SCX, SHX, OR; 3/4 IN. THICK TYPES IP-X3 OR UNITED STATES GYPSUM CO -- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR; 5/8 IN. THICK TYPE SCX, SHX, IP-XI, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 IN. THICK TYPES IP-X3 OR LITERACODE

> STEEL SCREWS USED TO ATTACH PANELS TO STUDS (ITEM 2) OR FURRING CHANNELS (ITEM 7). SINGLE LAYER SYSTEMS: I IN. LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR I-I/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 8 IN. OC WHEN PANELS ARE APPLIED HORIZONTALLY, OR 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY, TWO LAYER SYSTEMS: FIRST LAYER- ! IN LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC. SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS OR 2-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC WITH SCREWS OFFSET 8 IN, FROM FIRST LAYER, THREE-LAYER SYSTEMS: FIRST LAYER- I IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. THIRD LAYER- 2-1/4 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS OR 2-5/8 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN. FROM LAYER BELOW. FOUR-LAYER SYSTEMS: FIRST LAYER- LIN LONG FOR 1/2 IN .. 5/8 IN. THICK PANELS, SPACED 24 IN. OC. SECOND LAYER- 1-5/8 IN, LONG FOR 1/2 IN. 5/8 IN. THICK PANELS. SPACED 24 IN. OC. THIRD LAYER- 2-1/4 IN. LONG FOR 1/2 IN. THICK PANELS OR 2-5/8 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 24 IN. OC. FOURTH LAYER- 2-5/8 IN. LONG FOR 1/2 IN. THICK PANELS OR 3 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN, FROM LAYER BELOW.

GA. FASTENERS -- (NOT SHOWN) -- FOR USE WITH ITEM 2A - TYPE S OR S-12 STEEL SCREWS USED TO ATTACH PANELS TO STUDS (ITEM 2A). SINGLE LAYER SYSTEMS: I IN LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 8-1/2 IN, OC WITH ADDITIONAL SCREWS | IN, AND 2-1/2 IN, FROM EDGES OF THE BOARD WHEN PANELS ARE HORIZONTALLY, OR 8 IN, OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY. TWO LAYER SYSTEMS APPLIED VERTICALLY: FIRST LAYER- 1 IN. LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC. SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS OR 2-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC WITH SCREWS OFFSET 8 IN. FROM FIRST LAYER, TWO LAYER SYSTEMS APPLIED HORIZONTALLY: FIRST LAYER- 1 IN. LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS. SPACED 16 IN. OC STARTING 8 IN, FROM EACH EDGE OF THE BOARD WITH AN ADDITIONAL SCREW PLACED 1-1/4 IN. FROM EACH EDGE OF THE BOARD, SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS OR 2-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC STARTING 8 IN. FROM EACH EDGE OF THE BOARD WITH AN ADDITIONAL SCREW PLACED 1-1/4 IN. FROM EACH EDGE OF THE BOARD WITH SCREWS OFFSET 8 IN FROM FIRST LAYER, THREE-LAYER SYSTEMS: FIRST LAYER- 1 IN, LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. THIRD LAYER- 2-1/4 IN. LONG FOR 1/2 . 5/8 IN. THICK PANELS OR 2-5/8 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN. FROM LAYER BELOW. FOR ALL LAYERS, AN ADDITIONAL SCREW SHALL BE PLACED 1-1/4 IN. FROM EACH EDGE OF THE BOARD. FOUR-LAYER SYSTEMS: FIRST LAYER- I IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. SECOND LAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS, SPACED 24 IN. OC. THIRD LAYER- 2-1/4 IN. LONG FOR 1/2 IN. THICK PANELS OR 2-5/8 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 24 IN. OC. FOURTH LAYER- 2-5/8 IN. LONG FOR 1/2 IN. THICK PANELS OR 3 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN. FROM LAYER BELOW. FOR ALL LAYERS, AN ADDITIONAL SCREW SHALL BE PLACED 1-1/4 IN. FROM EACH EDGE OF THE BOARD.

7. FURRING CHANNELS -- (OPTIONAL, NOT SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) -- RESILIENT FURRING CHANNELS FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, SPACED VERTICALLY A MAX OF 24 IN. OC. FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2 IN. LONG TYPE S-12 STEEL SCREWS, NOT FOR USE WITH ITEM 5A AND 5E. 7A. FRAMING MEMBERS* -- (NOT SHOWN) -- (OPTIONAL ON ONE OR BOTH SIDES, NOT

SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) -- AS AN ALTERNATE TO ITEM 7, FURRING CHANNELS AND STEEL FRAMING MEMBERS AS DESCRIBED BELOW: A. FURRING CHANNELS -- FORMED OF NO. 25 MSG GALV STEEL. 2-3/8 IN. WIDE BY 7/8 IN. DEEP, SPACED MAX. 24 IN. OC PERPENDICULAR TO STUDS. CHANNELS SECURED TO STUDS AS DESCRIBED IN ITEM B. GYPSUM BOARD ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 6. NOT FOR USE WITH ITEM 5A AND 5E. B. STEEL FRAMING MEMBERS* -- USED TO ATTACH FURRING CHANNELS (ITEM 7AA) TO STUDS (ITEM 2), CLIPS SPACED MAX. 48 IN. OC. RSIC-1 CLIPS SECURED TO STUDS

WITH NO. 8 X 1-1/2 IN. MINIMUM SELF-DRILLING, S-12 STEEL SCREW THROUGH THE CENTER GROMMET. RSIC-V CLIPS SECURED TO STUDS WITH NO. 8 X 9/16 IN. MINIMUM SELF-DRILLING, S-12 STEEL SCREW THROUGH THE CENTER HOLE. FURRING CHANNELS ARE FRICTION FITTED INTO CLIPS. PAC INTERNATIONAL INC -- TYPES RSIC-I, RSIC-V 7B. FRAMING MEMBERS* -- (OPTIONAL, NOT SHOWN) -- AS AN ALTERNATE TO ITEM 7,

FOR SINGLE OR DOUBLE LAYER SYSTEMS, FURRING CHANNELS AND STEEL FRAMING MEMBERS ON ONLY ONE SIDE OF STUDS AS DESCRIBED BELOW: A. FURRING CHANNELS -- FORMED OF NO. 25 MSG GALV STEEL, SPACED 24 IN. OC PERPENDICULAR TO STUDS. CHANNELS SECURED TO STUDS AS DESCRIBED IN ITEM B. BATTS AND BLANKETS PLACED IN STUD CAVITY AS DESCRIBED IN ITEM 5. TWO LAYERS OF GYPSUM BOARD ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 5. NOT

KINETICS NOISE CONTROLING -- TYPE ISOMAX

7C. FRAMING MEMBERS" -- OPTIONAL - NOT SHOWN - USED AS AN ALTERNATE METHOD TO ATTACH RESILIENT CHANNELS (ITEM 7). CLIPS ATTACHED AT EACH INTERSECTION OF THE RESILIENT CHANNEL AND THE STEEL STUDS (ITEM 2). RESILIENT CHANNELS ARE MIN, I IN. LONG TYPE 5-12 STEEL SCREWS THROUGH THE CENTER HOLE OF THE CLIP AND THE RESILIENT CHANNEL FLANGE. KEENE BUILDING PRODUCTS CO INC -- TYPE RC ASSURANCE. 7D. FRAMING MEMBERS* -- (NOT SHOWN) -- (OPTIONAL ON ONE OR BOTH SIDES, NOT

SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) -- AS AN ALTERNATE TO ITEM 7, FURRING CHANNELS AND STEEL FRAMING MEMBERS AS DESCRIBED BELOW: A. FURRING CHANNELS -- FORMED OF NO. 25 MSG GALV STEEL, 2-3/8 IN. WIDE BY 7/8 IN. DEEP, SPACED MAX. 24 IN. OC PERPENDICULAR TO STUDS. CHANNELS SECURED TO STUDS AS DESCRIBED IN ITEM B. GYPSUM BOARD ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 6. NOT FOR USE WITH ITEM 5A AND 5E B. STEEL FRAMING MEMBERS* -- USED TO ATTACH FURRING CHANNELS (ITEM 7AA) TO STUDS (ITEM 2). CLIPS SPACED MAX. 48 IN. OC. GENIECLIPS SECURED TO STUDS WITH NO. 8 X 1-1/2 IN. MINIMUM SELF-DRILLING, S-12 STEEL SCREW THROUGH THE CENTER GROMMET. FURRING CHANNELS ARE FRICTION FITTED INTO CLIPS.

PLITEQ INC -- TYPE GENIECLIP 8. JOINT TAPE AND COMPOUND -- VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OF OUTER LAYERS. PAPER TAPE, NOM 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER PANELS. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM PANELS ARE SUPPLIED WITH A SQUARE EDGE. 9. SIDING, BRICK OR STUCCO -- (OPTIONAL, NOT SHOWN) -- ALUMINUM, VINYL OR STEEL SIDING, BRICK VENEER OR STUCCO, MEETING THE REQUIREMENTS OF LOCAL CODE

AGENCIES, INSTALLED OVER GYPSUM PANELS. BRICK VENEER ATTACHED TO STUDS WITH CORRUGATED METAL WALL TIES ATTACHED TO EACH STUD WITH STEEL SCREWS, NOT MORE THAN EACH SIXTH COURSE OF BRICK 10. CAULKING AND SEALANTS* -- (OPTIONAL, NOT SHOWN) -- A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL.

UNITED STATES GYPSUM CO -- TYPE AS 11. LEAD BATTEN STRIPS -- (NOT SHOWN, FOR USE WITH ITEM 5B) - 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 I 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 WALLBOARD (ITEM 5B) AND OPTIONAL AT REMAINING STUD LOCATIONS. REQUIRED BEHIND VERTICAL JOINTS.

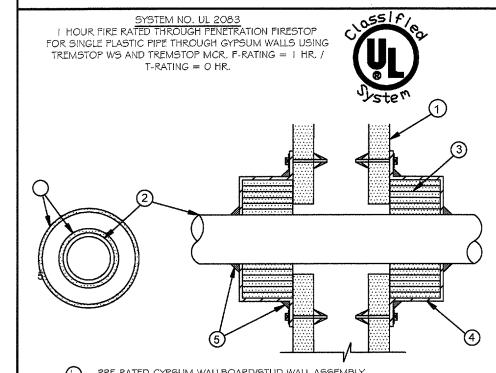
12. LEAD DISCS OR TABS -- (NOT SHOWN, FOR USE WITH ITEM 5B) - USED IN LIEU OF OR IN ADDITION TO THE LEAD BATTEN STRIPS (ITEM !!) OR OPTIONAL AT OTHER LOCATIONS - MAX 3/4 IN. DIAM BY MAX 0.125 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS OR MAX 1/2 IN, BY 1-1/4 IN, BY MAX O.125 IN. THICK LEAD TABS PLACED ON GYPSUM BOARDS (ITEM 5B) 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

3. LEAD BATTEN STRIPS -- (NOT SHOWN, FOR USE WITH ITEM 5E) LEAD BATTEN STRIPS. 2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.142 IN. STRIPS PLACED ON THE FACE OF STUDS AND ATTACHED TO THE STUD WITH TWO MIN. I 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. I 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, GRADE "C". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD (ITEM 5E) AND OPTIONAL AT REMAINING STUD LOCATIONS. 14. LEAD TABS -- (NOT SHOWN, FOR USE WITH ITEM 5E) 2 IN. WIDE, 5 IN. LONG WITH A MAX THICKNESS OF 0.142 IN. TABS FRICTION-FIT AROUND FRONT FACE OF STUD, THE

STUD FOLDED BACK FLANGE, AND THE BACK FACE OF THE STUD. TABS REQUIRED AT EACH LOCATION WHERE A SCREW (THAT SECURES THE GYPSUM BOARDS, ITEM 5E) WILL PENETRATE THE STEEL STUD. LEAD TABS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C". LEAD TABS MAY BE HELD IN PLACE WITH STANDARD ADHESIVE TAPE IF NECESSARY.

*BEARING THE UL CLASSIFICATION MARK





PRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY

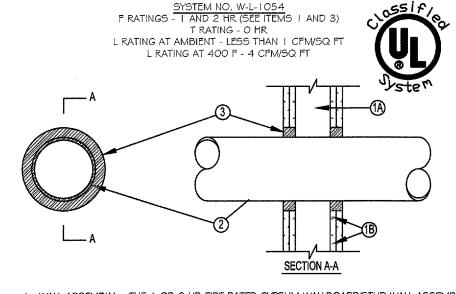
PLASTIC PIPE - NOM. 4" DIAM. (OR SMALLER) SCH. 40 PVC PIPE FOR USE IN OPEN OR CLOSED PIPING SYSTEMS. SEE TABLE BELOW FOR ANNULAR SPACE REQUIREMENTS.

TREMSTOP WS - INTUMESCENT WRAP STRIPS, CONTINUOUSLY WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE ON BOTH SIDES OF WALL

NOM. PIPE DIAMETER (IN.)	MAX. ANNULAR SPACE (IN.)	MIN. LAYERS (WRAP STRIPS
1-1/2	1/16	3
2	3/16	3
3	1/8	4
4	1/8	6
4	3/8	7
_		

TREMSTOP MCR - PREFABRICATED STEEL COLLAR WRAPPED OVER THE WRAP STRIPS (ITEM 3) AND MECHANICALLY FASTENED TO BOTH SIDES OF THE WALL ASSEMBLY.

FYRE-SIL - MIN. 1/4" THICKNESS OF SEALANT APPLIED AT THE INTERFACE OF THE WALL AND COLLAR, AND THE INTERFACE OF THE COLLAR AND PIPE. SEALANT APPLIED ON BOTH SIDES OF WALI



. WALL ASSEMBLY -- THE I OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN, OC, WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING. 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL

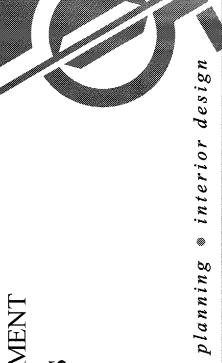
B. GYPSUM BOARD -- 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE IJL FIRE RESISTANCE DIRECTORY, MAX DIAM OF OPENING IS 32-1/4 IN, FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN, FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN O IN, TO MAX 2-1/4 IN, PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON 30TH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

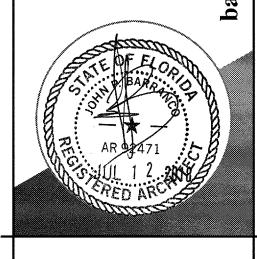
A. STEEL PIPE -- NOM 30 IN DIAM (OR SMALLER) SCHEDULE I O (OR HEAVIER) STEEL PIPE. B. IRON PIPE -- NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. C. CONDUIT -- NOM 4 IN DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT D. COPPER TUBING -- NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. . COPPER PIPE -- NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. 3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL, AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE SEALANT *BEARING THE UL CLASSIFICATION MARK





MPROV]

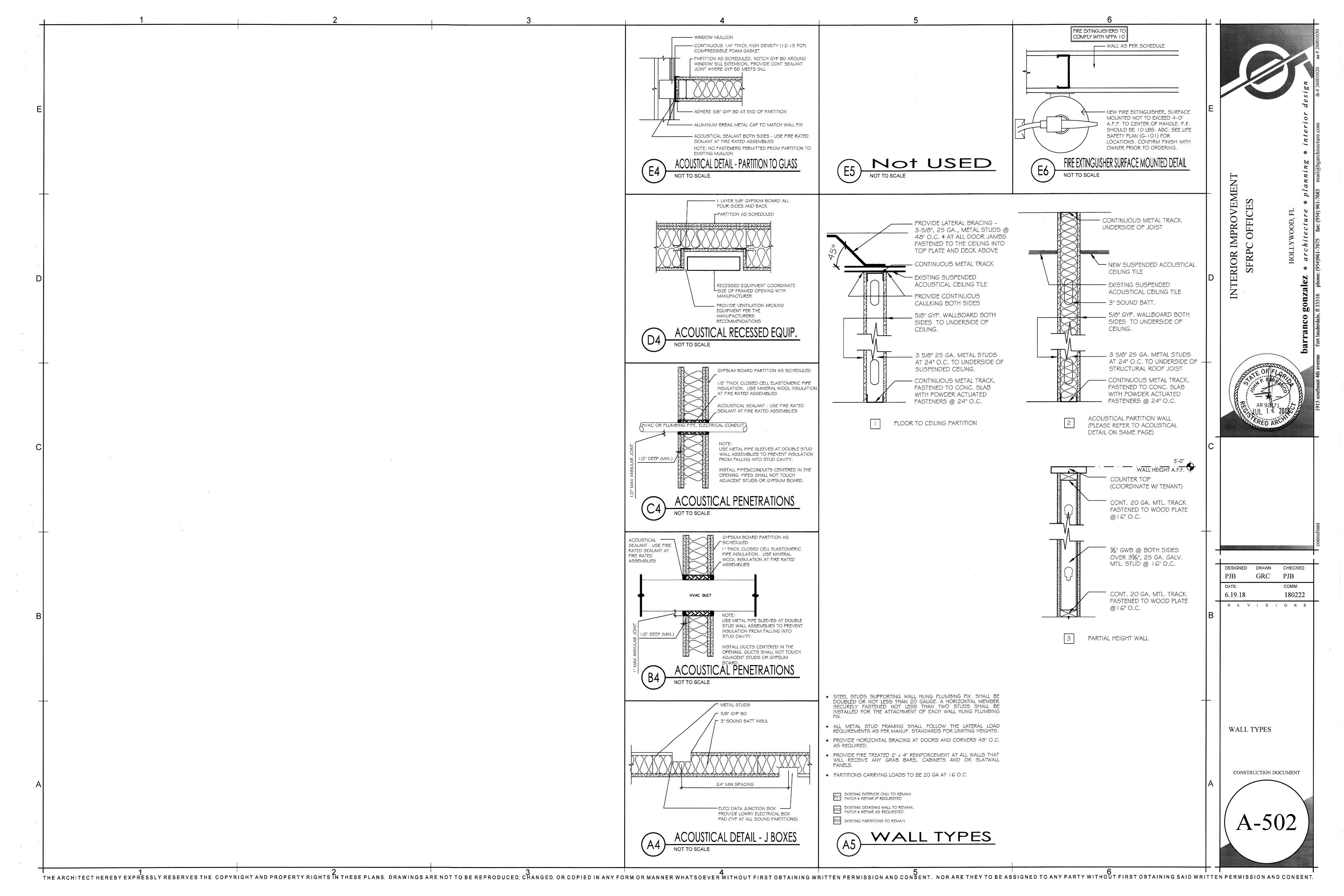


DESIGNED DRAWN CHECKED GRC COMM:

180222 6.19.18 REVISIONS

UL DETAIL

CONSTRUCTION DOCUMENT



2	3	5	
	PARTITION AS SCHED. SEE FLOOR PLAN AND SHEET I-502 METAL. STUDS 2x4 WD. OVER MTL STUD FRAME	NARK SIZE	esign ib#26001020 aa#26001030
E		1. ALL FRAME OPENING DIMENSIONS TO BE VERIFIED BY CONTRACTOR. 2. CONTRACTOR SHALL COORDINATE INTERIOR WINDOWS WITH PARTITIONS THICKNESS. 3. COORD. FINAL WINDOW DESIGN W/ TENANT. 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FABRICATION. 5. *GC TO MATCH NEW PROPOSED EXTERIOR WINDOWS WITH EXISTING ADJACENT WINDOWS, VERIFY IN FIELD AND MATCH EXISTING WINDOWS THICKNESS. 6. *ALL INTERIOR WINDOWS TO BE FIXED WINDOWS WINDOWS COLIEDING BY CONTRACTOR. 5. *GC TO MATCH NEW PROPOSED EXTERIOR WINDOWS WITH EXISTING ADJACENT WINDOWS, VERIFY IN FIELD AND MATCH EXISTING WINDOWS TO BE FIXED WINDOWS *WINDOWS TO BE FIXED WINDOWS WINDOWS COLIEDING BY CONTRACTOR. 5. *GC TO MATCH NEW PROPOSED EXTERIOR WINDOWS WITH EXISTING ADJACENT WINDOWS, VERIFY IN FIELD AND MATCH EXISTING WINDOWS TO BE FIXED WINDOWS	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	E4 INTERIOR WINDOW HEAD 3" = 1'-1	C5 WINDOWS SCHEDULE & NOTES	ENT Enning lanning
		FINISH SCHEDULE FLOOR BASE WALL CEILING NOTES FLOOR WAITING AREA O O O O O O O O O O O O O O O O O O O	OR IMPROVEM RPC OFFICES OLLYWOOD, FL architecture * p 961-7675 fax: (954) 961-76
D	2x4 WD. OVER MTL STUD METAL. STUDS PARTITION AS SCHED. SEE FLOOR PLAN AND SHEET I-502 INTERIOR WINDOW SILL	10 New Office	INTERIC SF barranco gonzalez F F F F F F F F F F F F F
С	V.C.T. V.C.T. 2 A. VCI TO CARPET 4 5	1. ALL INTERIOR WALL AND CEILING FINISHES IN EXIT ACCESS CORRIDORS WILL BE NOT LESS THAN CLASS II, PER NFPA I O I I 2.3.5. 2. FLASH PATCH ALL FLOORS WHERE REQUIRED BY NEW OR EXISTING CONDITIONS TO INSURE A SECURE AND SOUND SURFACE IN PREPARATION FOR NEW FLOORING. 3. ALL GYPSUM WALLBOARD SHALL BE SCREWED -IN-PLACE AND SHALL RECEIVE A 3-COAT SPACKLE FINISH, INCLUDING CLOSETS. ALL SPACKLING WORK SHALL BE SANDED SMOOTH AN LEVELED. CONTRACTOR SHALL PROVIDE A LEVEL 4 FINISH MINIMUM. 4. PROVIDE STANDARD CORNER BEADS ON ALL 90° INTERSECTIONS. 5. ALL WALLS AND CEILINGS TO RECEIVE I COAT PRIMER AND 2 COATS FINISH PAINT. SEE FINISH LEGEND FOR MORE INFORMATION. 6. PROVIDE ALL NECESSARY BLOCKING FOR ALL CABINETS, SHELVING WALL 9. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS I OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS IN CLASS II PER SECTION 39.3.3.3.2. 11. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS I OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS I OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS II OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS I OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 ED.) AND IN EXIT ENCLOSURES SHALL BE CLASS II OR CLASS II PER SECTION 39.3.3.3.2. 10. INTERIOR FLOOR FINISH SHALL COMPLY WITH SECTION 10.2 OF NFPA 10 I 2017 E	AR 92471 2019 C
	7 8	MOUNTED EQUIPMENT AND ADA ACCESSORIES. 7. NEW LAMINATE FLOORING TO BE ADDED AS REQUIRED. 8. ALL FINAL FINISH SELECTIONS ARE TO BE MADE BY OWNER. FINISH SCHED. & NOTES THE NUMERICAL ADDRESS SHALL BE PROVIDED ON ALL EXTERIOR DOORS W/ G" NUMBERS, WEATHERPROOF AND CONTRASTING COLORS. IF THE NUMBERS ARE TO BE PLACED ON A WINDOW THE NUMBERS SHALL BE WHITE AND IF THEY ARE TO BE ON A LIGHT COLORED BACKGROUND THEY SHALL BE BLACK PUBLIC.	tant
B	DOOR DETAIL	DOORS AND FRAMES SCHEDULE DOOR FRAME FIRE HARDWARE SIZE W HT THK MATL EL GLZ W HT MATL EL GLZ MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM 3'-0" 7'-0" 1¾' GLASS D O WD D B MEW DOARD ROOM B MEW DOARD	DESIGNED DRAWN CHECKED PJB GRC PJB DATE: COMM: 6.19.18 180222 R E V I S I O N S
A SLOPTIVE. SCHEDULE SCH	PASSAGE LATCH A OFFICE LOCK B ENTRANCE LOCK C HARDWARE GROUPS: A. PASSAGE LATCH - SCHLAGE ALIOS B. OFFICE LOCK - SCHLAGE ALSOPD C. ENTRANCE LOCK - SCHLAGE ALSOPD D. STORAGE LOCK - SCHLAGE AL4OS E. PRIVACY LOCK - SCHLAGE AL4OS E. BI-FOLD - STANLEY S402-032 NOTE: G.C. TO VERIFY WITH OWNER DOOR HARDWARE SELECTION.	113 NEW H.C. R.ROOM	FINISH SCHEDULE CONSTRUCTION DOCUMENT A A-601
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GENERAL NOTES:

1. DESIGN CRITERIA

THE FLORIDA BUILDING CODE 2017 6th EDITION BASED ON ASCE 7-10

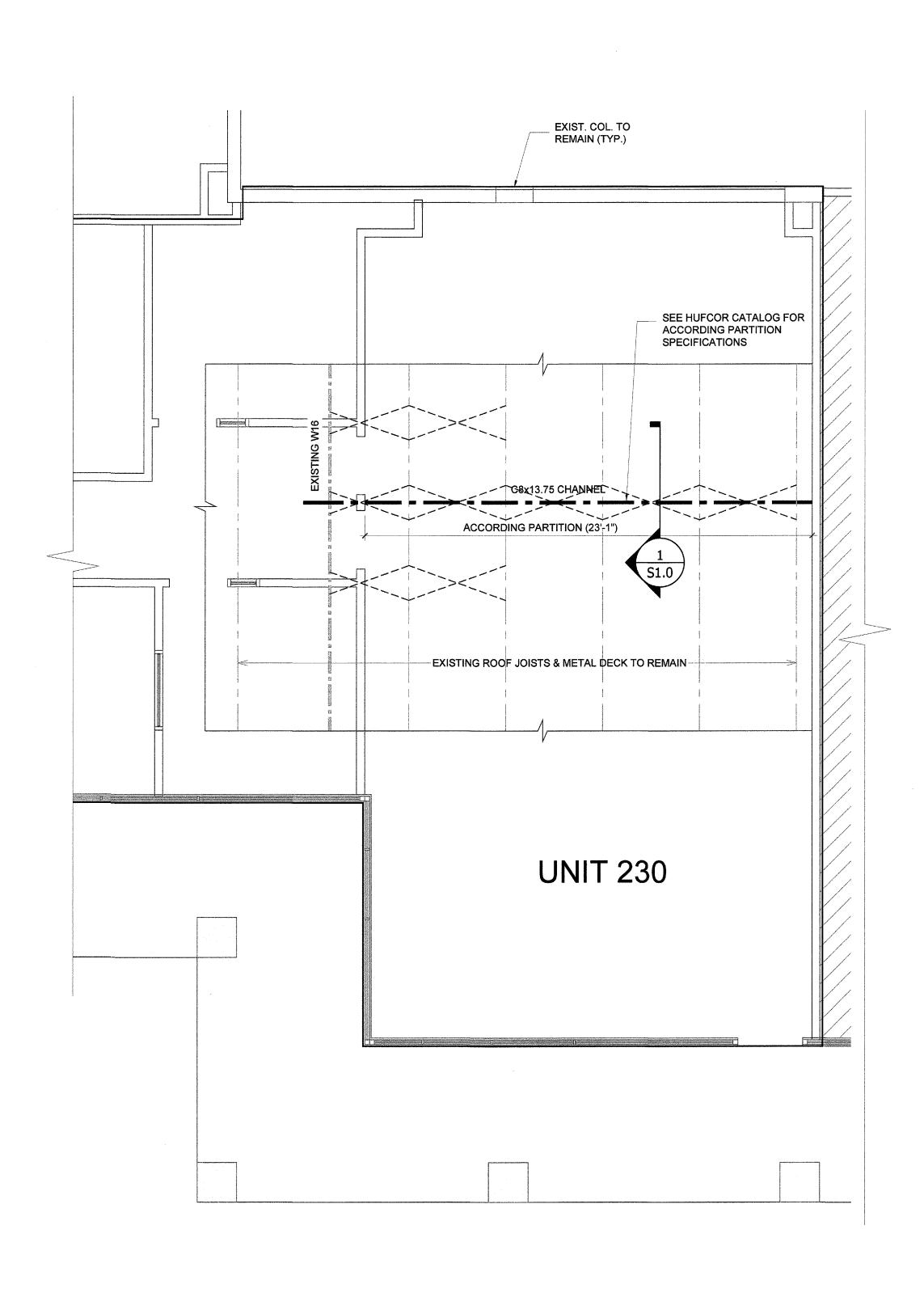
- A. DESIGN: ACCORDION PARTITION HUFCOR MODEL 3100: WEIGHT 2.7pds/sqft
- B. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 6th ADDITION OF FLORIDA BUILDING CODE AND FOLLOWING RATIONAL ANALYSIS PRINCIPLES.

2. STRUCTURAL STEEL:

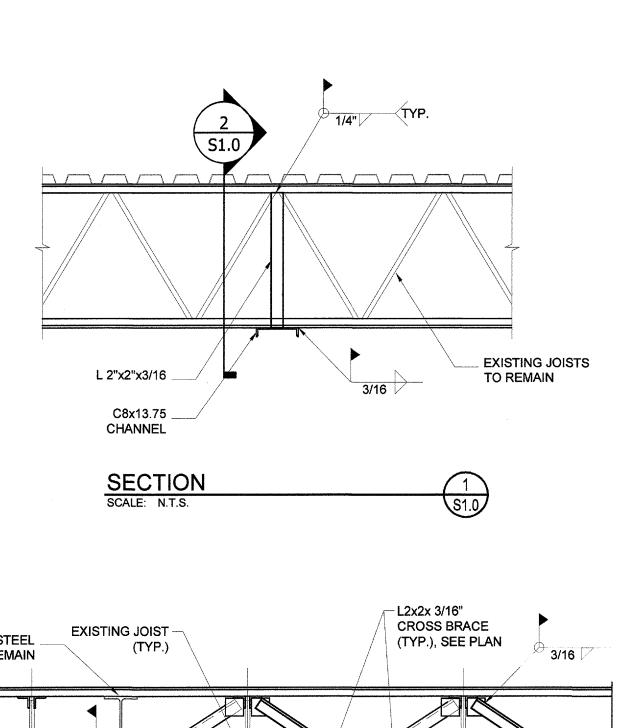
- a) SHALL CONFORM TO ASTM DESIGNATIONS A-36, A-325, A-500 AS APPLICABLE AND AISC 360-11 SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, BOLTS AND WELDING MATERIALS SHALL CONFORM TO APPLICABLE PROVISIONS OF AISC SPECIFICATIONS, AND AWS RECOMMENDATIONS.
- b) FIELD CONNECTIONS SHALL BE WELDED OR BOLTED AS SPECIFIED. SHOP WELDING OR WHERE FIELD WELDING IS REQUIRED SHALL BE CERTIFIED WELDERS ONLY. ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER PAINT UNLESS NOTED OTHERWISE c) THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE PRIOR TO
- e) ALL FIELD WELDS AND SHOP WELDS SHALL BE DONE BY A CERTIFIED AWS WELDER, AS PER FBC f) STRUCTURAL SHAPES:

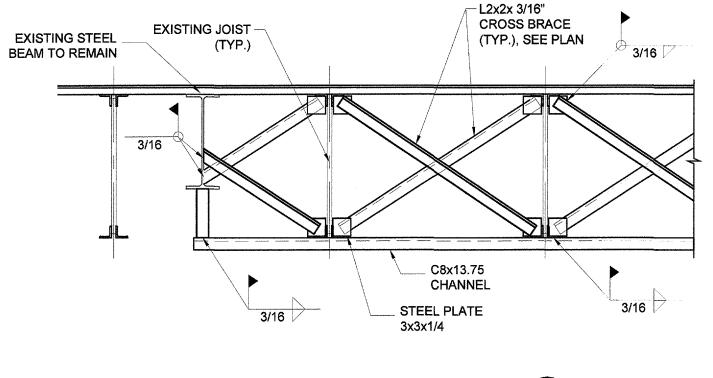
W - beams Fy = 46 ksi HSS - rectangle. . . Fy = 42 ksi HSS - round Fy = 36 ksi L - angle Fy = 36 ksi Fy = 35 ksi C - channel . .

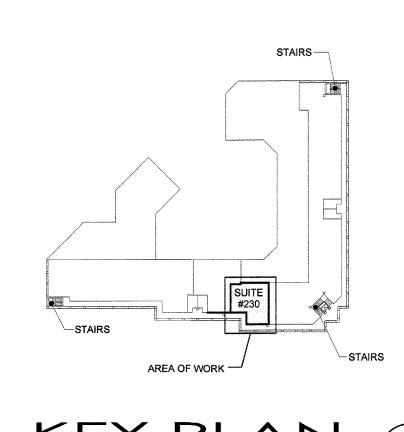
> CONTRACTOR TO COORDINATE THAT DEFLECTION SERVICEABILITY PARAMETER ARE MET, IN ACCORDANCE W/ MANUFACTURER SHOP DWGS.









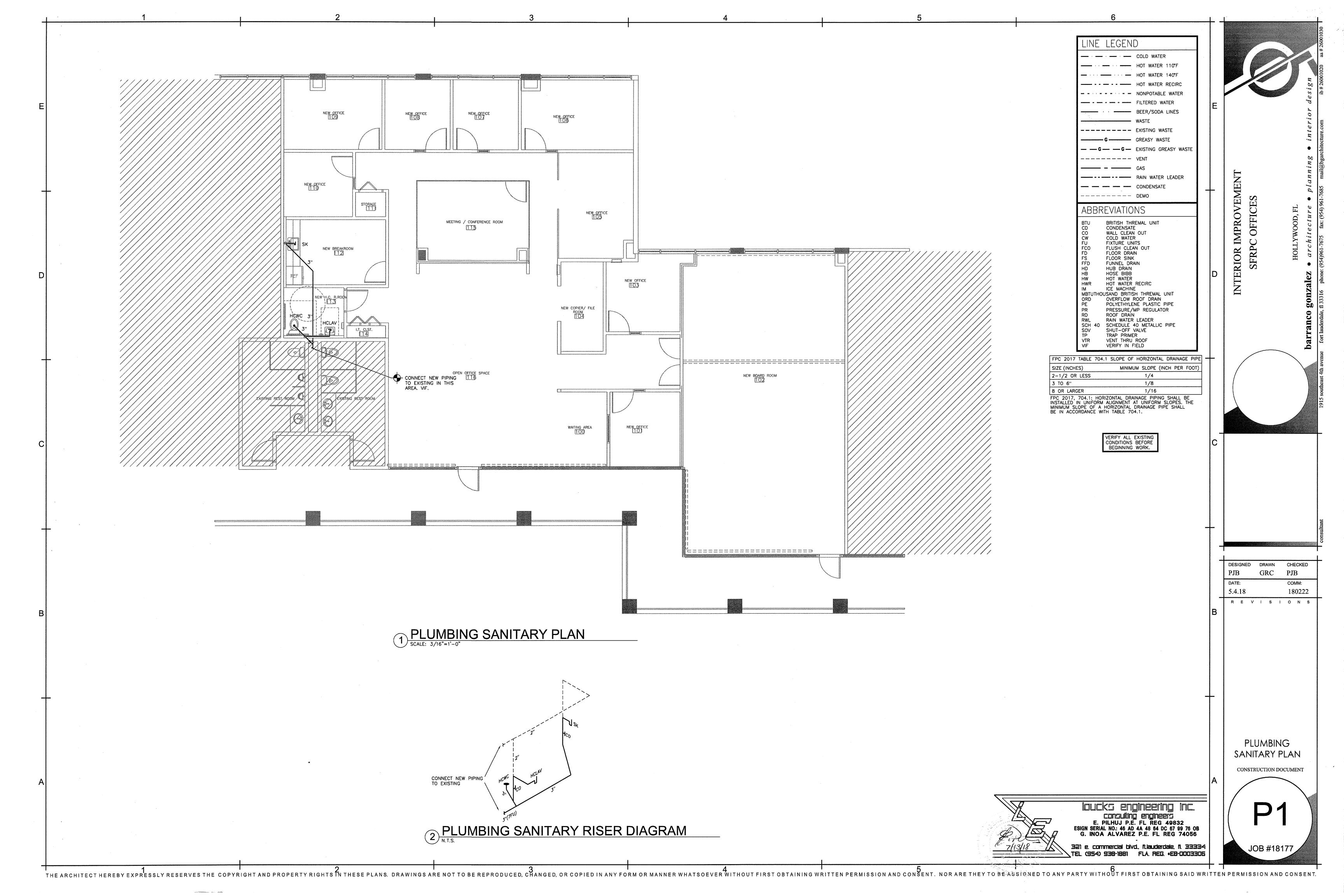


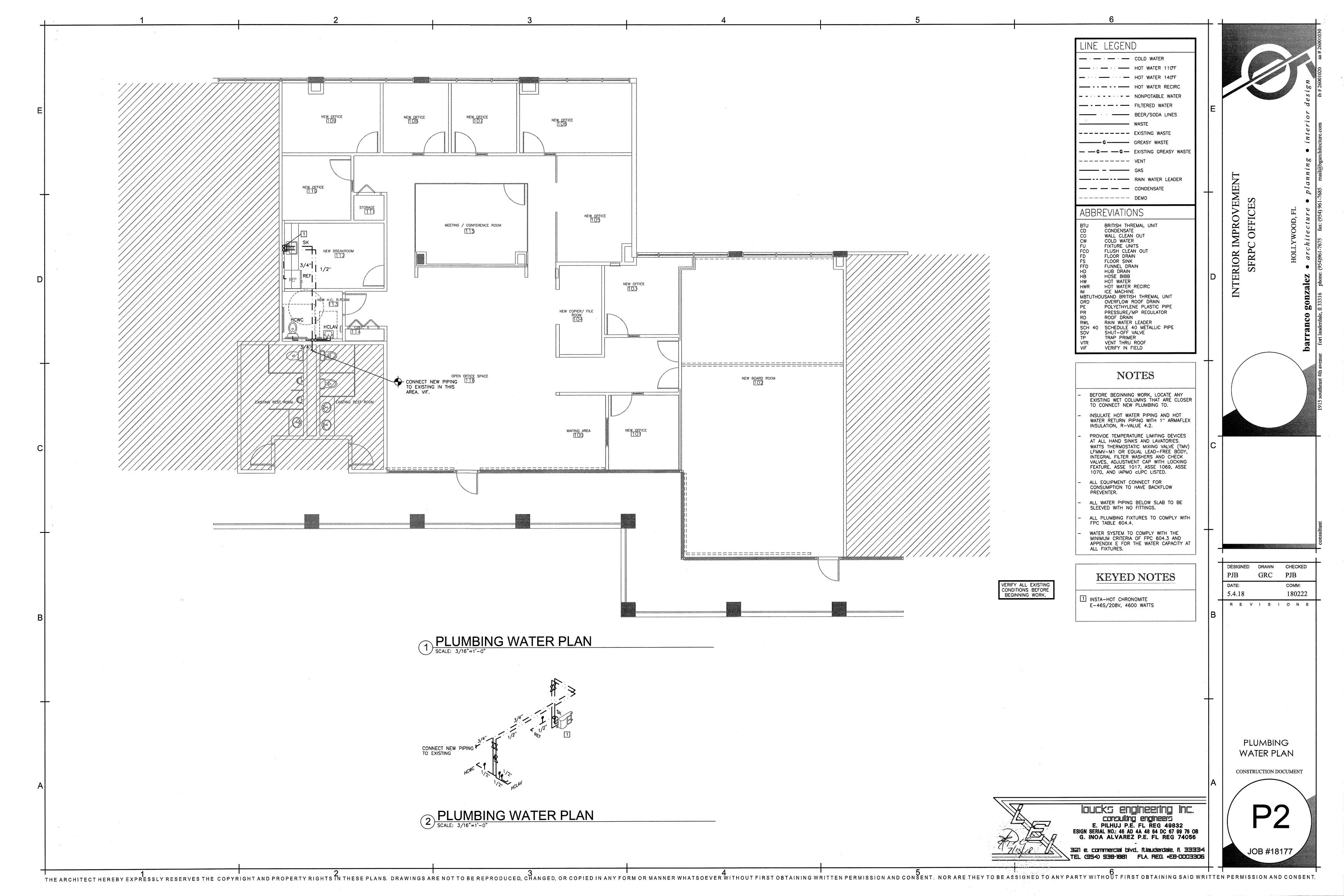




PROPOSED FLOOR PLAN CONSTRUCTION DOCUMENT

S1.0

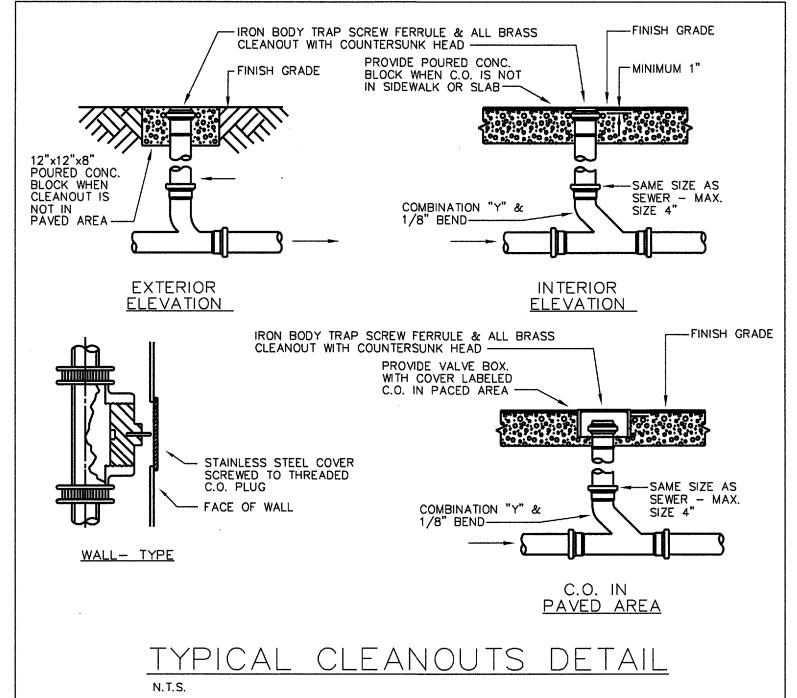


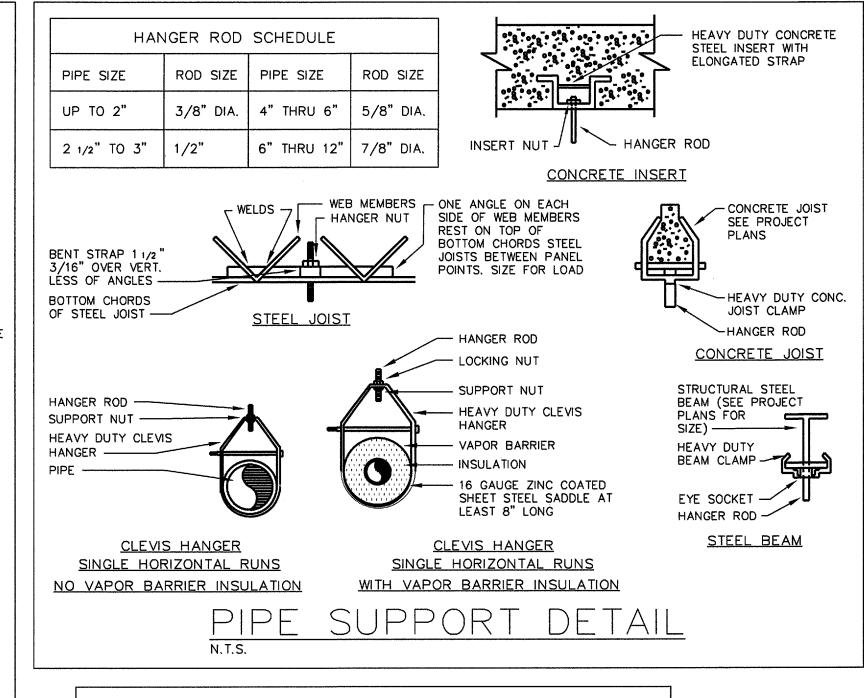


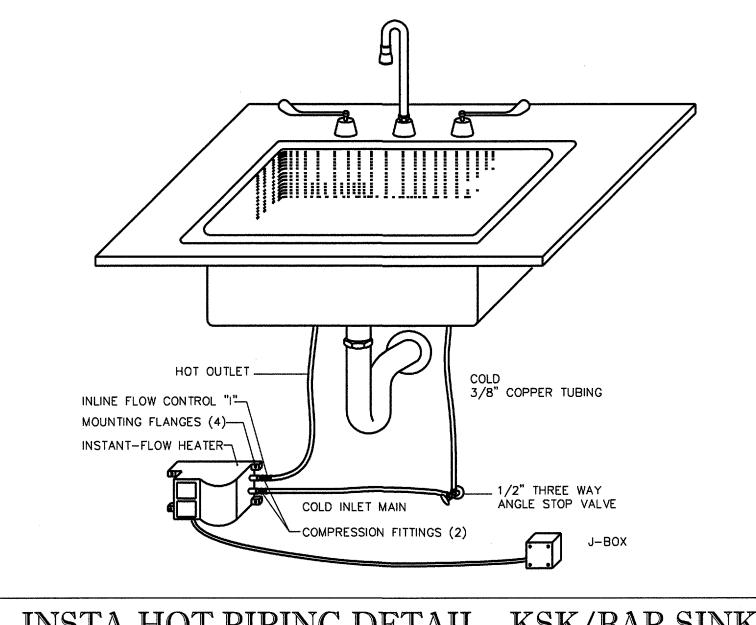
PLUMBING SPECIFICATIONS

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCE. ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS, AND OF AMERICAN MANUFACTURE. ALL REQUIREMENTS AND MATERIALS SHALL BE AS PROVIDED FOR ORIGINAL BUILDING AND AS INDICATED IN THESE DRAWINGS AND SPECIFICATIONS.
- 2. SANITARY, WASTE, VENT, AND STORM PIPING SHALL BE CENTRIFUGAL CAST IRON BELL AND SPIGOT BELOW GRADE AND NO-HUB SYSTEM WITH STAINLESS STEEL COUPLINGS ABOVE GRADE EXCEPT VENTS ABOVE GRADE MAY BE SCHEDULE 40 GALVANIZED IRON. WHERE ALLOWED BY LOCAL AUTHORITIES DWV PVC MAY BE USED INSTEAD OF CAST IRON AND GALVANIZED.
- CONDENSATE DRAINS ABOVE GROUND SHALL BE INSULATED COPPER TYPE "M" OR DWV AS SPECIFIED FOR SANITARY PIPING. BELOW GROUND SHALL BE DWV AS SPECIFIED FOR SANITARY PIPING.
- 4. POTABLE WATER PIPING BELOW GROUND SHALL BE TYPE "K" SOFT TEMPER AND HOT AND COLD WATER PIPING ABOVE GROUND SHALL BE TYPE "L" HARD TEMPER COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SOLDER—FREE JOINTS. POTABLE WATER PIPING SHALL NOT BE INSTALLED BELOW ANY FLOOR ON GRADE OR FILL.
- 5. PIPE SUPPORTS SHALL BE PROVIDED TO BE COMPATIBLE WITH PIPING, INSULATION, STRUCTURE, AND COMPENSATE FOR CONTRACTION AND EXPANSION.
- 6. THE CONTRACTOR SHALL CONNECT TO ALL EQUIPMENT FURNISHED BY THE OWNER.
- 7. EACH NEW FIXTURE AND EQUIPMENT SUPPLY SHALL BE PROVIDED WITH A SUPPLY STOP OR SHUT-OFF VALVE AS APPLICABLE.
- 3. WATER HAMMER ARRESTORS SHALL BE PROVIDE AND INSTALLED INSTALLED AS PER PDI-WH 201 & FPC 604.9.
- 9. PROVIDE DIELECTRIC FITTINGS IN ALL PIPING SYSTEMS WHERE CONNECTING DISSIMILAR MATERIALS AND PROTECT AGAINST CONTACT OF DISSIMILAR THROUGHOUT THE INSTALLATION.
- 10. INSULATE ALL HOT WATER, CONDENSATE DRAINS, AND WATER COOLER WASTES PROVIDED.
- 11. INSULATE HOT WATER PIPING WITH 1" ARMAFLEX INSULATION.
- 12. INSULATE ALL AIR CONDITIONING AND REFRIGERATION CONDENSATE DRAINS IN PLENUM AREAS. FINISH WHERE EXPOSED WITH 2 COATS OF WHITE LATEX PAINT ALL AS PER THE MANUFACTURER'S INSTRUCTIONS.
- 13. ALL HOSE BIBS AND HOSE CONNECTIONS THIS PROJECT SHALL BE PROVIDED WITH VACUUM BREAKERS AND SHALL BE SEPARATELY VALVED.
- 14. ALL WATER, SOIL, WASTE, VENT, AND STORM PIPING PROVIDED SHALL BE TESTED PER FPC 312 TESTS AND INSPECTIONS.
- 15. CONTRACTOR SHALL OBTAIN APPROVED MANUFACTURER'S INSTALLATION DRAWINGS FOR ALL EQUIPMENT AND CASEWORK AND CASEWORK DIMENSIONED ROUGH-IN LAYOUT PRIOR TO PROCEEDING WITH ANY WORK.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIXTURE, CASEWORK, AND EQUIPMENT ROUGH—IN DIMENSIONS AND CORRECT FLOOR AND WALL PENETRATION.
- 17. SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.
- 18. CONTRACTOR SHALL PROVIDE ALL SYSTEMS INDICATED IN THESE SPECIFICATIONS ON THE DRAWINGS AND AS REQUIRED TO COMPLY WITH LOCAL CODES AND ORDINANCES AS APPLICABLE TO COMPLETING WORK FOR INTENDED OCCUPANCY. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS FOR CONTRACTOR TO PROVIDE A COMPLETE AND OPERATING INSTALLATION INCLUDING ALL OBVIOUSLY NECESSARY ITEMS EVEN THOUGH ITEMS ARE NOT INCLUDED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- 19. THE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH
- 20. PROVIDE TEMPORARY POTABLE WATER SERVICE AS REQUIRED ON SITE FOR ALL
- 21. VERIFY ALL DIMENSIONS WITH STRUCTURE PRIOR TO ANY FABRICATION OR INSTALLATION.
- 22. CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK BY THIS CONTRACTOR, AND REPAIR ALL FLOORS, WALLS, ETC. DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO LANDLORD AND STRUCTURAL REQUIREMENTS, AND FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP REQUIRED OF APPLICABLE TRADES FOR THE BUILDING.
- 23. PROVIDE AN ACCURATE LAYOUT, GRADES, AND ELEVATIONS; SET SLEEVES AND OPENINGS IN AMPLE TIME; TAKE PROPER PRECAUTIONS TO PROTECT ALL WORK AND EQUIPMENT FROM DAMAGE INCLUDING EXISTING.
- 24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- 25. PROVIDE FIXTURES AND WATER HEATERS AS INDICATED ON DRAWINGS.
- 26. CONTRACTOR SHALL PERFORM AND/OR PAY FOR ALL TESTS INDICATED AND REQUIRED FOR ALL SYSTEMS PROVIDED.
- 27. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TAXES REQUIRED TO INSTALL AND COMPLETE SYSTEMS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- 28. AT COMPLETION OF WORK REMOVE ALL RUBBISH AND DEBRIS CAUSED BY THIS WORK AND THOROUGHLY CLEAN ALL RELATED FIXTURES AND EQUIPMENT.
- 29. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN 1 (ONE) YEAR FROM DATE OF ACCEPTANCE.
- 30. CONTRACTOR TO KEEP ACCURATE AS-BUILTS AND SHALL SUBMIT THREE (3) COPIES TO ARCHITECT/ENGINEER SEVENTY TWO (72) HOURS PRIOR TO FINAL INSPECTION.
- 31. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IMMEDIATELY UPON ANY DISCREPANCIES,
- 32. ALL EQUIPMENT CONNECTED FOR CONSUMPTION TO HAVE BACKFLOW PREVENTER.
- 33. ALL EXPOSED PIPING UNDER LAVATORIES SHALL BE INSULATED AS PER FBC ACCESSIBILTY 606.5.
- 34. ALL VALVES SHALL BE IDENTIFIED AS PER FPC 606.4.
- 35. ALL PIPING TO BE IDENTIFIED AS PER FPC 606.7 & 608.8.
- 36. ALL INDIRECT WASTE PIPING TO BE TRAPPED AS PER FPC 802.2.
- 37. ALL MATERIALS LOCATED IN A PLENUM MUST BE PLENUM RATED.
- 38. ALL MATERIALS LOCATED IN A FIRE RATED ASSEMBLY SHALL BE NON-COMBUSTIBLE.
- 39. ALL MATERIALS PENETRATING A FIRE RATED ASSEMBLY SHALL BE FIRE STOPPED.
- 40. USE OF CORRUGATED STAINLESS STEEL TUBING (CSST) WILL NOT BE ACCEPTED.

 41. ALL PLUMBING FIXTURES TO COMPLY WITH FPC TABLE 604.4.







INSTA-HOT PIPING DETAIL - KSK/BAR SINK

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY (b)
LAVATORY, PRIVATE	1.5 GPM @ 60 PSI
LAVATORY, PUBLIC (METERING)	0.25 GPM PER METERING CYCLE
LAVATORY, PUBLIC (OTHER THAN METERING)	0.5 GPM @ 60 PSI
SHOWER HEAD (a)	2.0 GPM @ 80 PSI
SINK FAUCET	2.2 GPM @ 60 PSI
URINAL	0.5 GALLON PER FLUSHING CYCLE
WATER CLOSET	1.28 GALLON PER FLUSHING CYCLE
DISHWASHER (RESIDENTIAL) (*)	6.5 GALLONS PER CYCLE OR LESS (ENERGY STAR/WATER SENSE CERTIFIED)
DISHWASHER (COMMERCIAL)	LESS THAN 1.2 GALLONS PER RACK FOR FILL AND DUMP MACHINES AND LESS THAN 0.9 GALLONS PER RACK FOR LOW TEMPERATURE MACHINES
DISHWASHER (UNDER THE COUNTER MACHINES COMMERCIAL)	1.0 GALLONS PER RACK FOR HIGH TEMPERATURE MACHINES AND 1.7 GALLONS PER RACK FOR LOW TEMPURATURE MACHINES
WASHING MACHINE (*)	WATER FACTOR OF 8 OR LOWER (ENERGY STAR/WATER SENSE CERTIFIED) (c)

- *IF INSTALLED

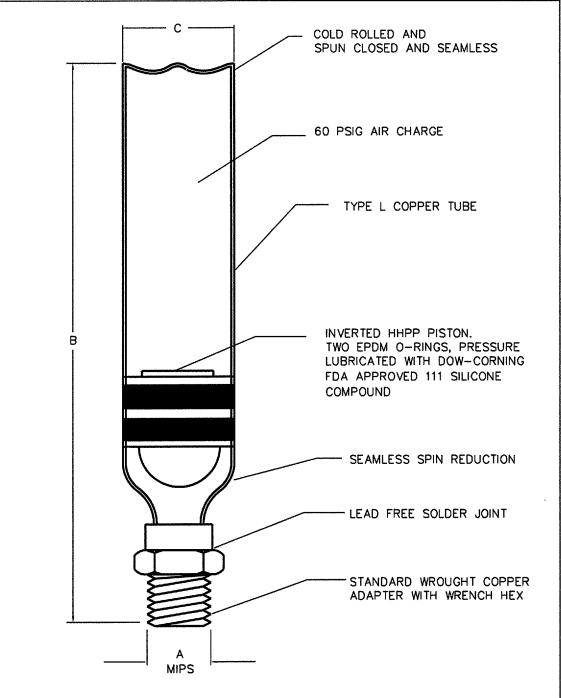
 g. A HAND-HELD SHOWER SPRAY IS A SHOWER HEAD.

 b. CONSUMPTION TOLERANCES SHALL BE DETERMINED FROM REFERENCE STANDARDS.

 g. WATER FACTOR IN GALLONS PER CYCLE PER CUBIC FOOT.
- EXCEPTIONS:

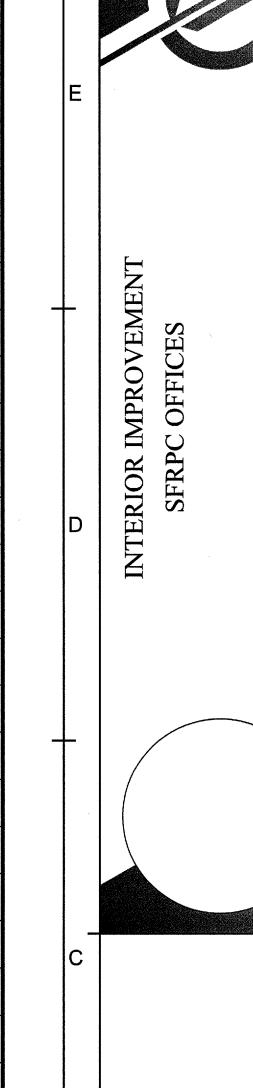
 1. BLOWOUT DESIGN WATER CLOSETS HAVING A MAXIMUM WATER CONSUMPTION OF 3.5 GALLONS (13L) PER FLUSHING CYCLE.
- 2. VEGATABLE SPRAYS.

 3. CLINICAL SINKS HAVING A MAXIMUM WATER CONSUMPTION OF 4.5 GALLONS (17L) PER FLUSHING
- 4. SERVICE SINKS.
 5. EMERGENCY SHOWERS.
 6 ALL FIXTURE, FITTINGS, AND APPLIANCES WITH U.S. ENVIROMENTAL AGENCY WATERSENSE® (EPA) LABEL.



JOS	AM SIZING CHART	.	DIMENSIONS				
YPE NO.	PDI SYMBOLS	FIXT. UNITS	A	В	С		
′5001–S	A	1 TO 11	1/2	6-1/2	1-3/8		
75002-S	В	12 TO 32	3/4	8-3/4	1-3/8		
75003-S	С	33 TO 60	1	11	1-3/8		
75004-S	D	61 TO 113	1	10-1/8	2-1/8		
75005-S	E	114 TO 154	1	12-5/8	2-1/8		
75006-S	F	155 TO 330	1	15-1/8	2-1/8		

ITEM	DRAINAGE FIXTURE UNIT	COLD WATER FIXTURE UNIT	HOT WATER FIXTURE UNIT	DESCRIPTION	SAN.	TRAP	H.W.	C.
нсмс	4	PUBLIC 10 PRIVATE 6		HANDICAPPED WATER CLOSET - FLUSH VALVE	4"	-		1
WC	4	PUBLIC 10 PRIVATE 6	_	WATER CLOSET - FLUSH VALVE	4"	_		1
нсмс	4	PUBLIC 5 PRIVATE	_	HANDICAPPED WATER CLOSET – FLUSH TANK	4"	-	_	1/
wc	4	PUBLIC 5 PRIVATE	_	WATER CLOSET - FLUSH TANK	4"		_	1/
HCUR	4	5	_	HANDICAPPED URINAL	3"	_		3,
UR	4	5	_	URINAL	3"	_		3,
HCLAV	1	PUBLIC 1.5 PRIVATE	1.5	HANDICAPPED LAVATORY WALL MOUNTED	2"	1-1/4"	1/2"	1/
LAV	1	0.5 PUBLIC 1.5 PRIVATE	0.5 PUBLIC 1.5 PRIVATE	LAVATORY COUNTERTOP	2"	1-1/4"	1/2"	1,
HCSH	2	0.5 PUBLIC 3	0.5	HANDICAPPED SHOWER	2"	1-1/2"	1/2"	1,
SH	2	PUBLIC 3	PUBLIC 3	SHOWER	2"	1-1/2"	1/2"	1/
нсвт	2	PRIVATE 1 PUBLIC 3	3	HANDICAPPED BATHTUB	2"	1-1/2"		1/
		PRIVATE 1 PUBLIC 3	3	BATHTUB		1-1/2"		1,
ВТ	2	1 BIDE		BIDET			1/2	
BD	1	1.5	1.5	ELECTRIC WATER COOLER	2"	1-1/4"	_	1/
EWC	0.5	0.25		BARRIER FREE HANDICAPPED HI/LO	2"	1 1/4"	_	1/
HI/LO DF	1	0.5	_	DRINKING FOUNTAIN	2"	1 1/4"		1/
HCDF	0.5	0.25	-	HANDICAPPED SINGLE DRINKING FOUNTAIN	2"	1 1/4"	_	1/
SK	2	PUBLIC 3 PRIVATE 1	PUBLIC 3 PRIVATE 1	SINK (PUBLIC = HOTEL, RESTAURANT — SINK ONLY)	2"	1-1/2"	1/2"	1/
DW	2*		PRIVATE 1,4*	DISH WASHER, PRIVATE	2"	1-1/2"	1/2"	
WM	2	1	1	CLOTHES WASHER - PRIVATE, 8LBS	3"	2"	3/4"	3,
WM	3	2.25	2.25	CLOTHES WASHER — PUBLIC, 8LBS	3"	2"	3/4"	3,
WM	3	3	3	CLOTHES WASHER - PUBLIC, 15LBS	3"	2"	3/4"	3,
LT	2	1	1	LAUNDRY TRAY	2"	1-1/2"	1/2"	1,
JS, MS, OR	2	2.25	2.25	JANITOR'S SINK, MOP SINK, OR SERVICE SINK	2"	1-1/2"	1/2"	1,
SS SOME ITEM	I IS MAY I	NOT BE	L USED.		<u> </u>			L



 DESIGNED
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 DATE:
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 R E V I S I O N S

PLUMBING DETAIL & NOTES

P3

JOB #18177

loucks engineering inc.

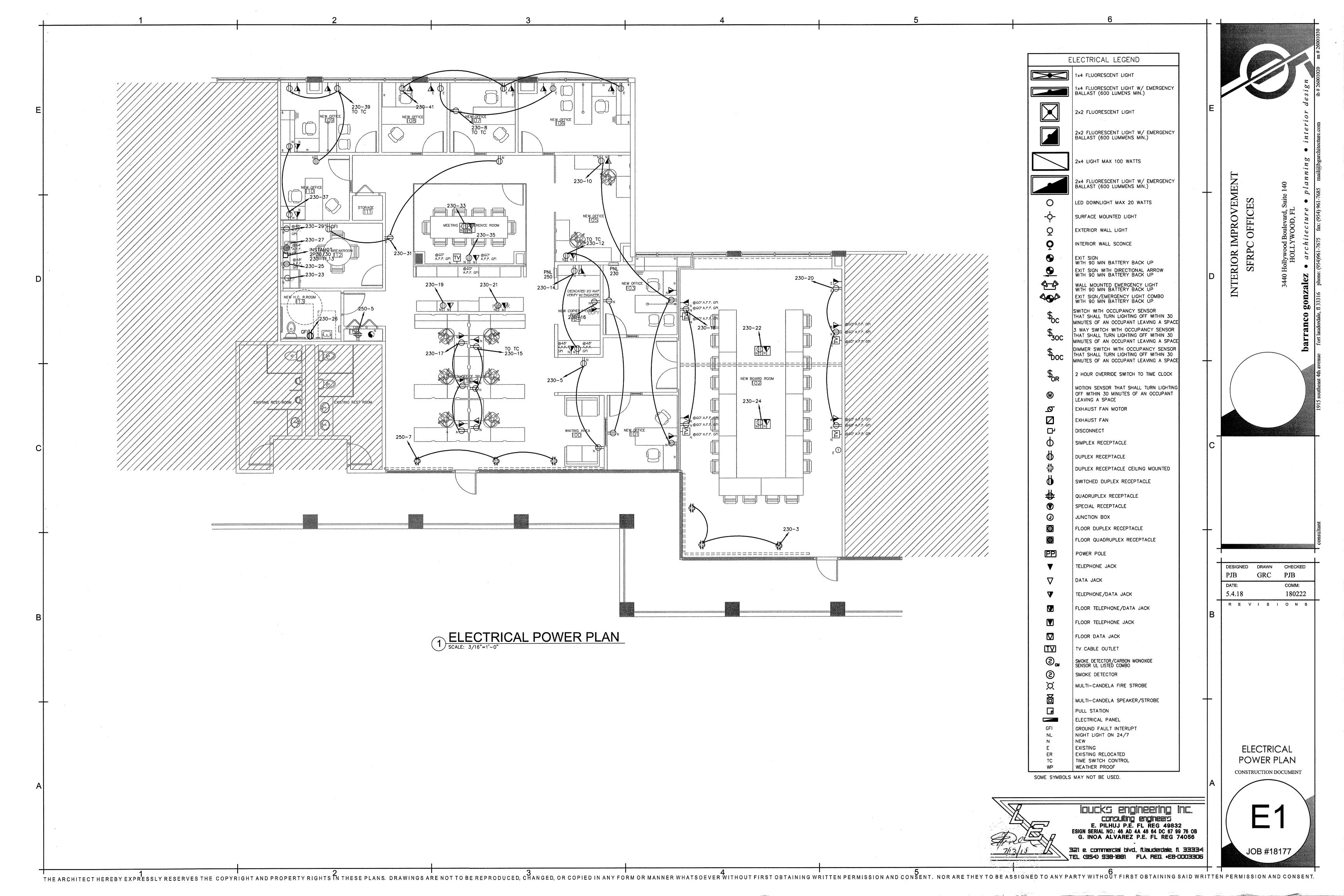
E. PILHUJ P.E. FL REG 49832 ESIGN SERIAL NO.: 46 AD 4A 48 64 DC 67 99 76 OB

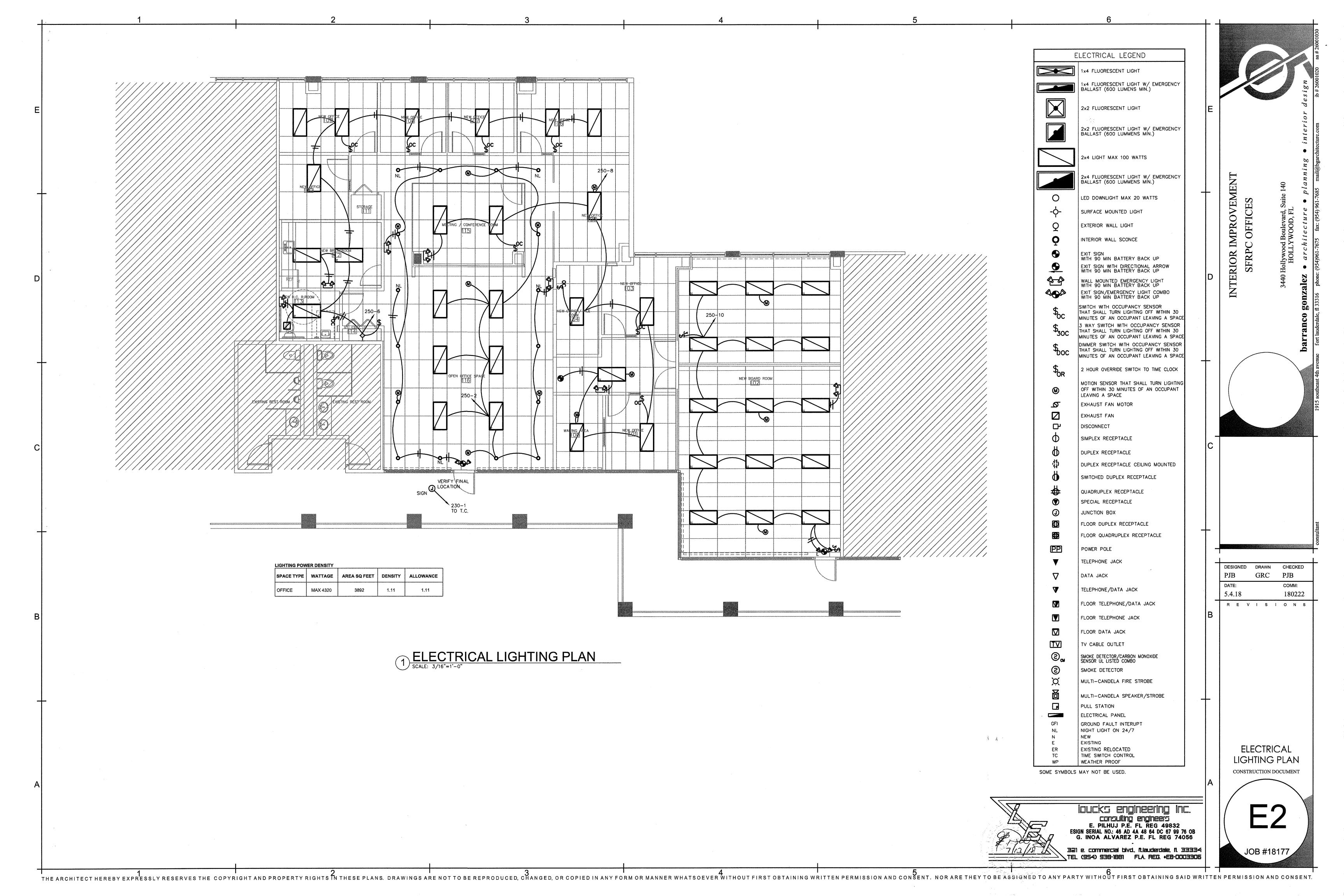
G. INOA ALVAREZ P.E. FL REG 74056

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TEL. (954) 938-1881 FLA. REG. +EB-0003306

1) PLUMBING DETAILS AND NOTES





ELECTRICAL NOTES:

- 1. ALL WORK TO BE DONE ACCORDING TO 2017 F.B.C., 2013 NFPA-72, 2015 NFPA-101, 2015 NFPA-1, 2017 FFPC AND 2014 N.E.C..
- 2. CONTRACTOR TO VISIT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY ENGINEER OF ANY DISCREPANCIES AT ONCE. FAILURE TO DO SO AND CONTRACTOR PROCEEDS AT HIS OWN RISK.
- 3. MAINTAIN AS-BUILTS ON A DAILY BASIS. SUBMIT 3 COPIES TO ARCHITECT AND OWNER 3 DAYS PRIOR TO ANY REQUIRED INSPECTIONS.
- 4. ALL CONDUIT TO BE METAL EMT INSIDE AND RIGID ON THE EXTERIOR, P.V.C. WILL BE ACCEPTED PROVIDED THAT THE CORRECT GROUND AS PER N.E.C. TABLE 250-66,122 IS INCLUDED WHEN ALLOWED BY CODE. NO PVC WILL BE ALLOWED IN R.A. PLENUMS OR FIRE RATED ASSEMBLIES. ALL MATERIALS IN R.A. PLENUMS TO BE PLENUM RATED.
- 5. CONDUCTOR TO BE COPPER THWN OR THHN. MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT TO BE INSTALLED PER NEC 310.15(B)(3)(A)
- 6. ALL EXTERIOR EQUIPMENT TO NEMA 3R RATED. 7. ALL FUSES TO BE BUSSMAN CURRENT LIMITING AT SERVICE ENTRANCE. ALL OTHERS FUSES ACCORDING TO MANU. SPECIF.
- 8. PROVIDE 6 SETS OF SHOP DRAWINGS FOR APPROVAL, NO EQUIPMENT TO BE ORDERED BEFORE SHOP DRAWINGS ARE APPROVED.
- 9. VERIFY ALL NAMEPLATE DATA OF EQUIPMENT FOR PROPER PROTECTION AND LOADS PRIOR TO INSTALL OR WIRING.
- 10. MAINTAIN A MINIMUM OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT, PRIOR TO INSTALLING ANY EQUIPMENT COORDINATE WITH OTHER TRADES TO INSURE THAT CLEARANCES ARE MAINTAINED.
- 11. CONTRACTOR TO REMOVE ALL TRASH/UNUSED MATERIALS AT THE END OF DAY. 12. ALL CONDUITS, FIXTURES, DEVICES TO HAVE GROUND EXTEND AS PER TABLE
- 250-122 N.E.C. 13. POWER TO BE ON CONTINUOUSLY 5 WEEK PRIOR TO COMPLETING PROJECT.
- 14. ALL LOW VOLTAGE CABLING AND SYSTEM ARE THE RESPONSIBILITY OF THE VENDOR THAT IS PROVIDING THE SYSTEM INCLUDING PERMITTING.
- 15. CONTRACTOR TO LAMP/RELAMP ALL FIXTURES. 16. CONTRACTOR TO VERIFY QUANTITIES OF EXISTING AND NEW DEVICES AND FIXTURES REQUIRED TO COMPLETE PROJECT PRIOR TO SUBMITTING BID.
- 17. CONTRACTOR TO VERIFY EXISTING CIRCUITS AND MUST PROVIDE NEW PANEL SCHEDULES IDENTIFYING ALL CIRCUITS IN PANEL.
- 18. NEUTRALS NOT TO BE SHARED. PROVIDE #8 NEUTRAL TO ALL FURNITURE SYSTEMS, IF APPLICABLE.
- 19. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT MENTIONED OR
- NOT TO POWER, DATA AND VOICE TO ALL EQUIPMENT AND SYSTEMS INSTALLED. 20. ALL DEVICES TO MATCH BUILDING STANDARD OR BE DECORA SERIES.
- 21. TYPICAL LIGHT SWITCHES TO BE @ 48" A.F.F. ON CENTER. TYPICAL RECEPTACLE TO BE 18" A.F.F. ON CENTER. ALL SWITCHES TO BE GANGED WITH CONTINUOUS FACEPLATES, ALL DEVICES THAT ARE ADJACENT TO BE SPACED 6" ON CENTER.
- 22. ALL ELECTRICAL ELEMENTS TO BE THOROUGHLY PROTECTED FROM DAMAGE AFTER INSTALLATION AND SHALL HAVE TRIM INSTALLED AFTER ADJOINING FINISH MATERIALS
- 23. AT THE COMPLETION OF THE PROJECT ALL EQUIPMENT, DEVICES AND FIXTURES TO BE CLEANED.
- 24. ALL EMERGENCY AND EXIT LIGHTS ARE TO HAVE A MINIMUM 90 MINUTE BATTERY
- BACK-UP. 25. CONTRACTOR IS TO PROVIDE STEP DOWN TRANSFORMERS FOR ALL FANS WHEN REQUIRED. 26. NO ALUMINUM CONDUCTOR BUSS WILL BE ALLOWED - ALL MUST BE COPPER. 27. ALL DATA, TEL., TV BOXES TO BE 4x4x2 DOUBLE GANG BOXES. STUB ALL CONDUITS
- WITH LAY IN CEILINGS TO 6" ABOVE CEILING. ALL CONCEALED OR EXPOSED APPLICATIONS TO BE HOME RUN TO MAIN DISTRIBUTION LOCATION.
- 28. CONTRACTOR TO PROVIDE TEMPORARY POWER FOR ALL TRADES. 29. NEW ELECTRICAL PANELS TO HAVE BOLT ON BREAKERS.
- 30. NO ELECTRICAL CIRCUITS OR WIRING FROM ADJACENT SPACES TO BE USED IN THIS
- 31. ALL INTERIOR LIGHTING TO HAVE SWITCHES WITH OCCUPANCY SENSORS IN THEM CAPABLE OF STAYING ON NO MORE THAN 30 MINUTES. CIRCUITS WHICH HAVE MOTION SENSORS ON THEM MAY USE STANDARD SWITCHES.
- 32. CONTRACTOR TO REMOVE ALL ABANDONED OR UNUSED WIRING, CONDUIT AND BOXES. 33. PROVIDE 2-2" RIGID CONDUIT FROM BUILDINGS MAIN TELEPHONE ROOM COMMUNICATION CENTER TO SITE DEMARC POINT. COORDINATE CABLE, TV, VOICE AND DATA
- REQUIREMENTS WITH OWNER TO MEET THEIR REQUIREMENTS. 34. VERIFY EXISTING FIRE ALARM HAS SUFFICIENT ROOM FOR EXPANSION AND EQUIPMENT IS STILL READILY AVAILABLE. CONTRACTOR TO PROVIDE COMPLETE SHOP DWGS INCLUDING RISER, CUT SHEETS, BATTERY CALCULATIONS AND ALL OTHER NECESSARY INFORMATION.
- 35. LABEL ALL OUTLETS AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. 36. ANY ELECTRICAL EQUIPMENT POTENTIALLY NEEDING ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED MUST BE PLACARED IN ACCORDANCE WITH N.E.C. 110.16. 37. ALL NIGHT LIGHTS AND EMERGENCY LIGHTS TO BE CONNECTED AHEAD OF ANY CONTROL
- DEVICE. 38. ALL TRANSFORMERS ARE TO HAVE A MINIMUM K-RATING OF K-13. KVA SIZING OF
- TRANSFORMER IS SHOWN ON THE ELECTRICAL RISER DRAWING. 39. ALL CIRCUIT BREAKERS SERVING FURNITURE SYSTEMS MUST BE HANDLE TIED AS PER
- N.E.C. 605.7 40. PROVIDE 90 MIN. BATTERY BACK UP FOR NEW AND EXISTING EMERGENCY/NIGHT LIGHTS

TIME CLOCK WITH

2 HR OVERRIDE

SWITCH BUILT IN

PLEASE REFER LEGEND. 41. PROVIDE MEAN OF DISCONNECTION FOR ALL LIGHTING FIXTURES AS PER NEC 410.130(G)

FROM TIME CLOCK

NEMA 1 ENCLOSURE

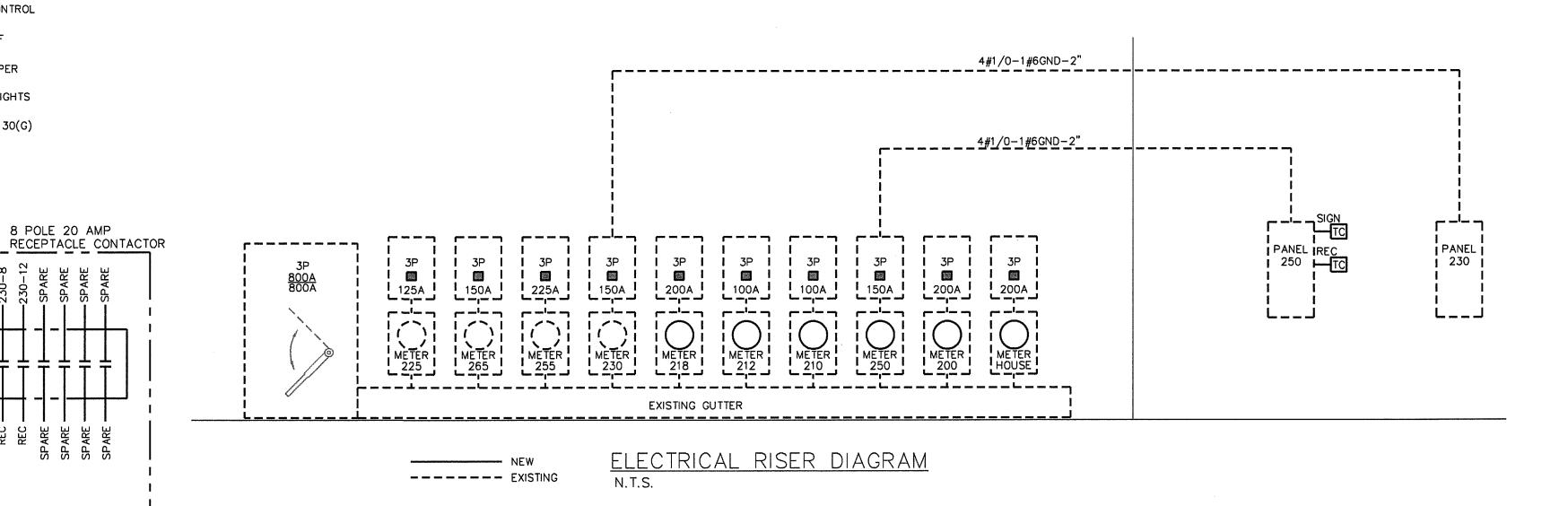
WITH HINGED COVER

8 POLE 20 AMP

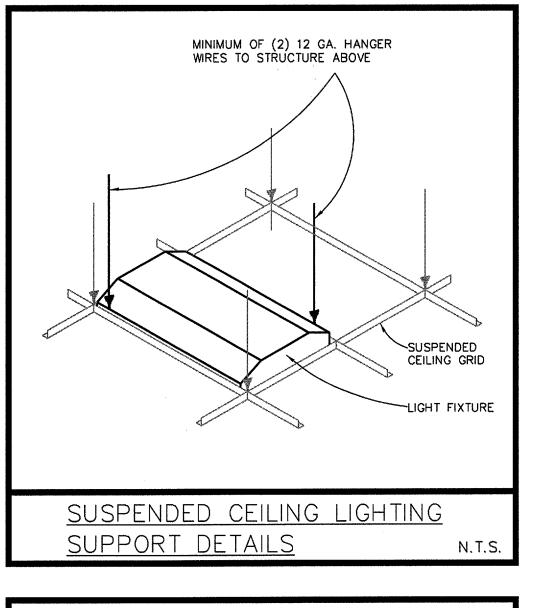
RECEPTACLE CONTACTOR RC

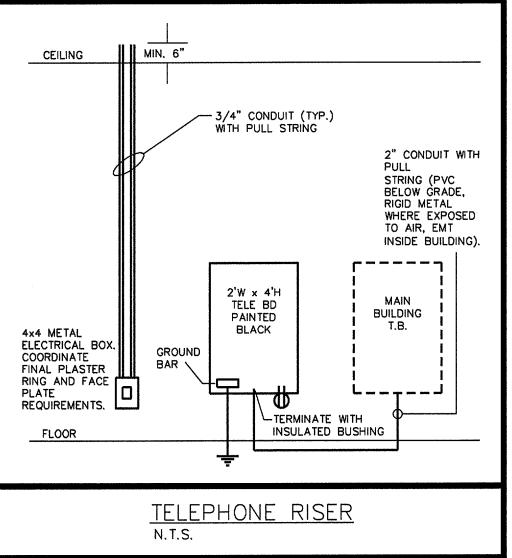
Wire	Ø	No.	Poles	Trip	Description	Load	No.	Poles	Trip	Description	Load	Ø	Wire
12	Α	01	1	20	SIGN	1200	02	3	40	AHU-3	12600	Α	E
12	В	03	1	20	SHOW WINDOWS	360	04	_	_	_	_	В	E
12	С	05	1	20	WAITING REC	360	06			••••		С	E
Ε	Α	07	2	20	CU-3	(4000)	80	1	20	OFFICE REC TC	540	Α	12
E	В	09	_				10	1	20	OFFICE REC	540	В	12
10	С	11	2	30	INSTAHOT	4600	12	1	20	OFFICE REC TC	540	С	12
10	Α	13	_	_	-		14	1	- 20	COPY REC	360	Α	12
12	В	15	1	20	DESKS TC	540	16	1	20	COPIER	600	В	12
12	С	17	1	20	DESKS REC	540	18	1	20	CONFERENCE TV	360	С	12
12	Α	19	1	20	COPY REC	360	20	1	20	CONFERENCE TV	540	Α	12
12	В	21	1	20	COPIER	600	22	1	20	CONFERENCE REC	540	В	12
12	С	23	1	20	REF	600	24	1	20	CONFERENCE REC	540	С	12
12	Α	25	1	20	COFFEE	1000	26	1	20	RESTROOM GFI	360	Α	12
12	В	27	1	20	BREAKROOM	360	28					В	
12	С	29	1	20	MW	800	30					С	
12	Α	31	1	20	BREAKROOM	540	32					Α	
12	В	33	1	20	CONFERENCE REC	360	34					В	
12	С	35	1	20	CONFERENCE TV	360	36					С	
12	Α	37	1	20	OFFICE REC	360	38					Α	
12	В	39	1	20	OFFICE REC TC	360	40					В	
12	С	41	1	20	OFFICE REC	540	42					С	

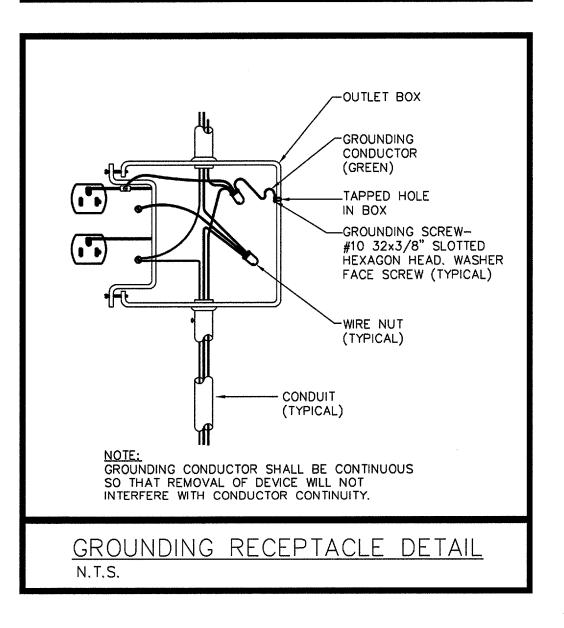
PAI	٧E	L	25	0		150	AC	Μl	_O	3ø4W 1	20/2	20	8V
Wire	Ø	No.	Poles	Trip	Description	Load	No.	Poles	Trip	Description	Load	Ø	Wire
	Α	01					02	1	20	LTG	1400	Α	12
	В	03					04	1	20	ROOF GFI	360	В	12
12	С	05	1	20	TELEPHONE	360	06	1	20	LTG	1000	C	12
12	Α	07	1	20	SHOW WINDOWS	360	08	1	20	LTG	800	Α	12
	В	09					10	1	20	LTG	1500	В	12
	C	11					12					С	
	Α	13					14					Α	
	В	15					16					В	
	С	17					18					С	
	Α	19					20					Α	
	В	21					22					В	
	С	23					24					С	·····
	Α	25					26	3	20	CU-1	(6500)	Α	E
	В	27					28			-		В	E
	С	29					30	_		_		C	E
	Α	31					32	3	20	CU-2	(6500)	Α	E
	В	33					34			_		В	E
	С	35					36	_	_	_	_	С	Ε
Ε	Α	37	3	50	AHU-1	14200	38	3	50	AHU-2	14200	Α	E
E	В	39		_	_		40	_	_	-	_	В	E
Ε	С	41	-	-			42	_			_	С	E
										PANEL LOAD		7	34180W 95A



1 ELECTRICAL DETAILS, NOTES & RISER







consulting engineers



ELECTRICAL DETAILS, NOTES & RISER CONSTRUCTION DOCUMENT JOB #18177

DESIGNED DRAWN

GRC

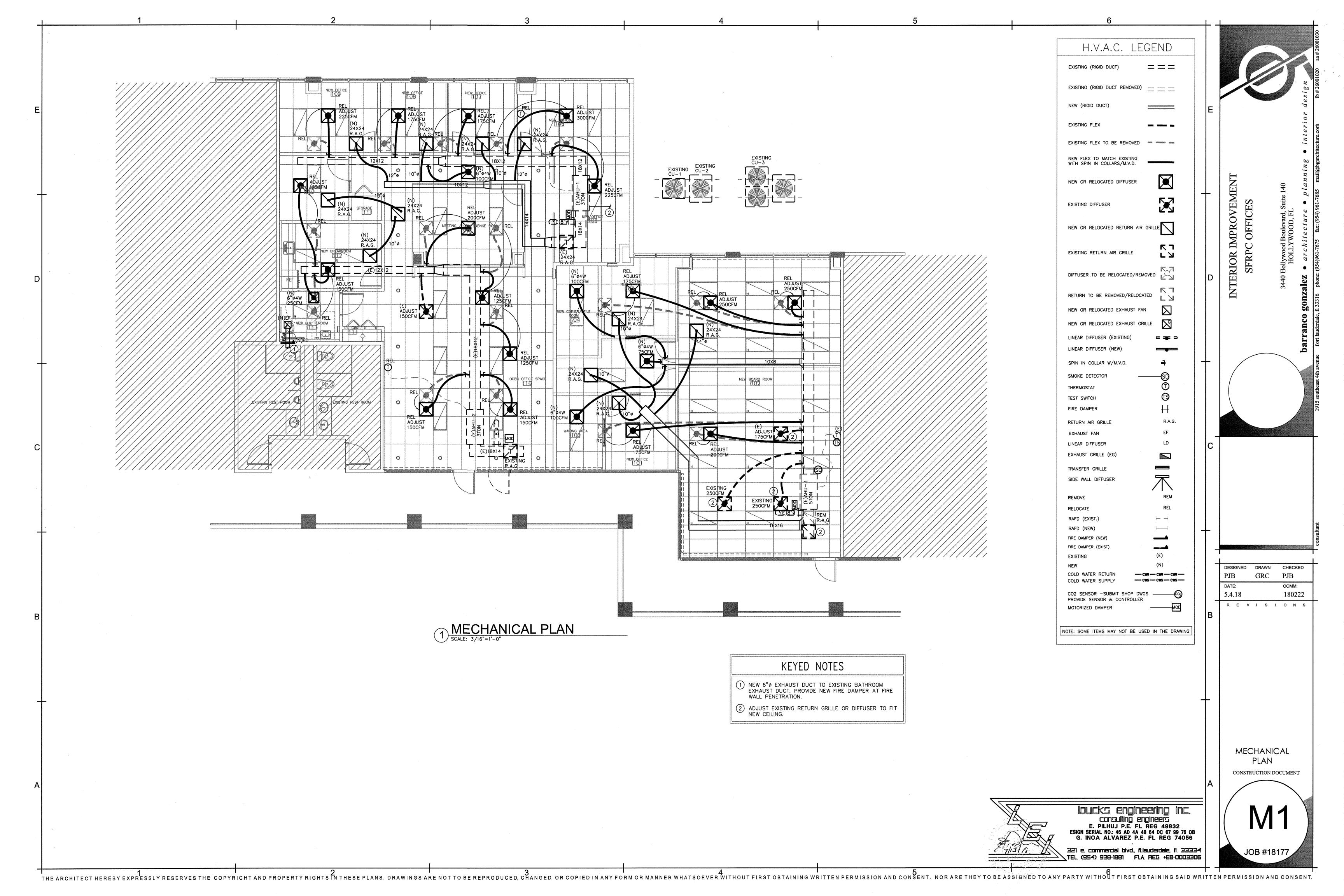
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GENERAL MECHANICAL NOTES

- 1- ALL WORK EXECUTED UNDER THESE OFFICIAL DOCUMENTS SHOULD BE PERFORMED BY A LICENSED AND INSURED MECHANICAL CONTRACTOR AND BE IN COMPLIANCE WITH THE LATEST FLORIDA BUILDING CODE (FBC), SHEET METAL & AIR CONDITIONING CONTRACTOR'S ASSOCIATION (SMACNA) STANDARDS, AND ALL OTHER APPLICABLE STATE
- 2- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANSHIP MANNER TO PRODUCE A COMPLETE SYSTEM THAT IS FULLY BALANCED, AND ADHERES TO ALL APPLICABLE CODES AND REGULATIONS.
- 3- MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT THE COMPLETE SYSTEM INSTALLED IS FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF A YEAR AFTER THE WORK IS COMPLETE AND TURNED OVER TO THE OWNER.
- 4- THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO OBTAIN HIS OWN PERMIT AND PAY ALL PERMIT AND INSPECTION FEES.
- 5- AT THE COMPLETION OF THE PROJECT THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A SET OF PRINTS CLEARLY MARKED, DEPICTING ALL AS-BUILT CONDITIONS TO THE ENGINEER FOR RECORD.
- 6- CONTRACTOR SHALL PAY SPECIAL ATTENTION TO OWNER EQUIPMENT, FURNITURE, AND CARPETING TO PREVENT CONTAMINATION BY COVERING AND WRAPPING FURNITURE AND EQUIPMENT, ALL WASTE AND DEBRIS SHALL BE REMOVED AT THE END OF EACH DAY TO MAINTAIN ACCEPTABLE INDOOR AIR QUALITY LEVEL DURING THE CONSTRUCTION.
- 7- ANY PORTION OF EXISTING BUILDING (FLOOR, WALL, CEILING, OR ROOF) THAT IS AFFECTED BY EITHER REMOVAL, RELOCATION OR INSTALLATION OF A NEW EQUIPMENT SHALL BE REPAIRED AND MATCHED FINISHED EXISTING CONDITIONS ACCORDING TO ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.
- 8- WHEREVER DUCT RUNS THROUGH STRUCTURAL ELEMENT SUCH AS BEAM PRECAUTION SHALL BE TAKEN TO COORDINATE WITH OTHER TRADES TO RELOCATE OR TO PROVIDE NECESSARY SLEEVE BEFORE CONCRETE IS BEING POURED.
- 9- SUPPLY 6 COPIES OF SHOP DRAWINGS FOR REVIEW TO ARCHITECT. NO EQUIPMENT IS TO BE ORDERED PRIOR TO THEIR APPROVAL.
- 10- MECHANICAL CONTRACTOR TO PROVIDE TWO (2) COMFORT BALANCE VISITS TO SUIT THE NEEDS OF THE CLIENTS.
- 11- OPENINGS AND DUCT TRAVELING THROUGH FIRE RATED WALL, TENANT DEMISING WALL, MECHANICAL AND ELECTRICAL ROOM, WALL AND FLOOR PARTITION, FLOOR AND ROOF SLAB SHALL BE INSTALLED WITH "B"-FIRE DAMPER.
- 12-MOTORIZED DAMPERS REQUIRED ON EXHAUST AND OUTDOOR SUPPLY DUCTS THAT WILL AUTOMATICALLY SHUT OFF WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. PER FBC 2017 - 403.2.4.3 ENERGY CONSERVATION
- 13-H, V, A, C. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY OPERATIONAL AND BALANCED SYSTEM THAT ADHERES TO ALL APPLICABLE CODES AND REGULATIONS. 14-CONTRACTOR TO PROVIDE CERTIFIED TEST AND BALANCE FOR ALL SYSTEMS
- 15-IN CEILINGS BEING USED AS A PLENUM, COMBUSTIBLES OR COMBUSTIBLE CONTRUCTION SHALL NOT BE ALLOWED.

SITE VISIT

- 1- MECHANICAL CONTRACTOR IS DULY REQUIRED TO VISIT PROJECT SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. HE OR SHE SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY AT ONCE. FAILURE TO DO SO, THE MECHANICAL CONTRACTOR IS PROCEEDING AT HIS OWN RISK.
- 2- DESIGN THAT IS CALLED FOR NEW DUCT OR PIPING TO BE CONNECTED TO EXISTING SYSTEM REQUIRES THE CONTRACTOR TO VERIFY EXISTING DUCT & PIPING SIZE BEFORE FABRICATION AND INSTALLATION.
- 3- WHENEVER INTERFERENCE OR CONFLICT OCCURS WITH THE PROPOSED DESIGN, BEFORE PROCEEDING TO ANY CHANGE OR DEVIATION FROM THE EXISTING BID, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE CHANGE INCLUDED A DETAILED DRAWING FOR APPROVAL FROM ARCHITECT/ ENGINEER.
- 4- CONTRACTOR SHALL CONSULT WITH STRUCTURAL ENGINEER WHEN CUTTING OR MAKING OPENING IN ANY BUILDING COMPONENT. CONTRACTOR SHALL VERIFY THAT STRUCTURAL INTEGRITY OF THE BUILDING IS NOT BEING COMPROMISED.
- 5- POST TENSION STRUCTURAL SLAB: NO CUTTING OR DRILLING SHALL BE TAKEN PLACE WITHOUT THE X-RAY OF THE SLAB AND THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF THE BUILDING.

EXISTING HVAC SYSTEM

- MECHANICAL CONTRACTOR MUST CHANGE THE AIR FILTER IN ALL WORKING AIR CONDITIONING UNIT DURING CONSTRUCTION EVERY 21 DAYS OR LESS DEPENDING ON THE AMBIENT ENVIRONMENT TO PREVENT AIR CONTAMINATION, EQUIPMENT FAILURE SUCH AS BEARING FAILURE, DAMPER MALFUNCTION, ETC ...
- 2- AFTER CONSTRUCTION MECHANICAL CONTRACTOR IS TO VACUUM THOROUGHLY THE MECHANICAL ROOM TO REMOVE ALL DUSTY PARTICLES, INSPECT AND REPLACE AIR FILTERS, BEARINGS OR BELTS FOR OPTIMAL UNIT OPERATION.
- 3- WHEN REUSING EXISTING AIR CONDITIONING THE CONTRACTOR MUST CLEAN THE COOLING AND THE CONDENSER COILS, CHECK AND ADJUST REFRIGERANT CHARGE TO ENSURE PROPER UNIT FUNCTION, VERIFY THE EXISTING CONDENSATE PIPING IS IN GOOD WORKING CONDITION, AND MAKE NECESSARY REPAIR, CONTRACTOR SHALL CHECK ALL ELECTRICAL COMPONENTS, TIGHTEN ALL ELECTRICAL CONNECTIONS FOR PROPER OPERATION.
- 4- DETERIORATED DUCTWORK AND CEILING INSULATION SHALL BE REPLACED. ALL EXISTING DUCTWORK SHALL BE THOROUGHLY INSPECTED AND REPAIRED REMOVED EQUIPMENT THAT IS NOT BEING USED SHALL BE RETURNED TO THE OWNER.
- 5- ANY EQUIPMENT THAT WAS TEMPORARILY DISCONNECTED WITH RESPECT TO A REMOVAL OF ANY OTHER DEVICE IT SHALL BE RECONNECTED TO THE EXISTING SYSTEM AND VERIFIED THAT IT IS FULLY OPERATIONAL.
- 6- CONTRACTOR SHALL VERIFY EXISTING AIR CONDITIONING AND HEATING SYSTEMS ARE FUNCTIONING PROPERLY, ITS PERFORMANCE RANGE WITH RESPECT TO ITS VOLUME
- 7- EQUIPMENT THAT IS LOCATED EXTERIOR OF THE BUILDING SHALL BE PROPERLY TIED DOWN AND BE ABLE TO WITHSTAND A 170 MILES/HR FORCE WIND.

SPECIFICATION NOTES:

A/C: EXISTING SPLIT SYSTEMS

<u>DUCTWORK:</u>

RIGID - FOIL FACED BACKED FIBERGLASS R=6 AT 1.5", SUPPORTED 48" O.C., AT ALL TURNS, TURNS AND TRANSITIONS. TAPED AND MASTIC SEALED ALL SEAMS.

FLEX- U.L. CLASS ONE AIR DUCT. R6 SUPPORT 48" O.C., PROVIDE SPIN IN COLLARS WITH M.V.D. WHEN ACCESSIBLE OR WITH SCOOP WHEN NOT ACCESSIBLE. TIE WRAP INNER LINER TWICE AND TAPE AND MASTIC SEAL OUTER LINER TAKING CARE NOT TO COMPRESS INSULATION.

TYPICAL SUPPLY BRANCH WITH CONICAL TAP, ROUND TO RECTANGULAR TRANSITION TO RECTANGULAR DIFFUSER.

PROVIDE A VOLUME DAMPER ON THE SUPPLY, RETURN AND EXHAUST DUCTWORK ABOVE LAIY-IN-CEILING OR AS INDICATED ON PLANS.

ALL DUCT WORK DIMENSIONS ARE INTERIOR DIMENSIONS. ALLOW FOR 2 INCH INSULATION THICKNESS FOR EXTERIOR DIMENSIONS.

GALVANIZED RECTANGLE DUCT OR ROUND SNAP LOCK METAL DUCT WILL BE INSTALLED WITH DUCT SUPPORTS AT 48 INCHES ON CENTER, INSULATE WITH R=6 FOIL FACED INSULATION WRAP U.L. AS REQUIRED.

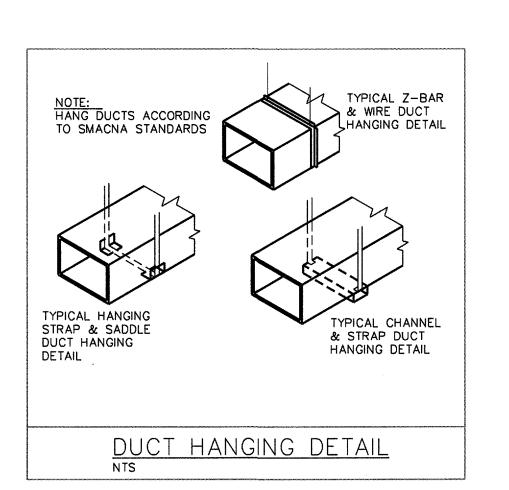
- EF-1: BROAN XB80 80 CFM @ 0.250" SP, 120V, 0.3 AMPS
- NOTE: ALL FRESH AIR, OUTSIDE MAKE AIR TO BE INSULATED WITH 1.5" DUCT WRAP, PROVIDE COLLARS AT BRANCH TAKE OFF'S.

DIFFUSER: REUSE EXISTING. NEW TO MATCH BUILDING STANDARD.

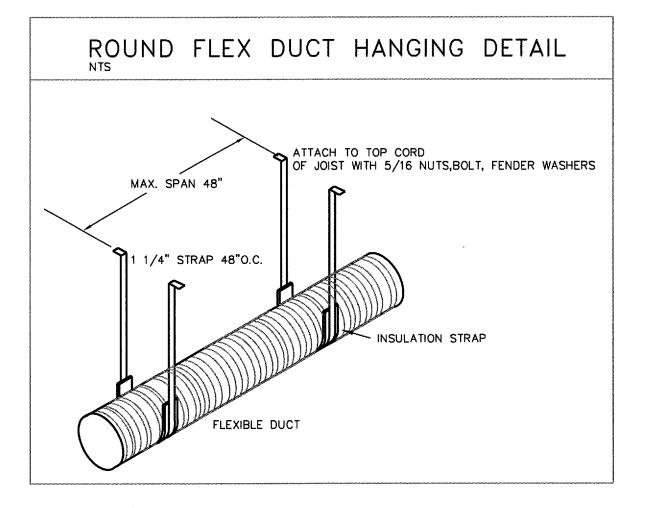
RETURN: REUSE EXISTING. NEW TO MATCH BUILDING STANDARD.

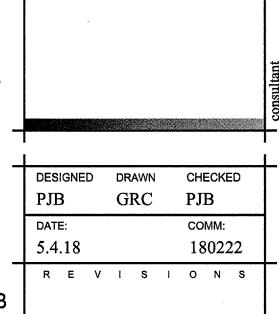
THERMOSTAT: REUSE EXISTING.

SMOKE DETECTORS: IONIZATION TYPE CARRIER, BRK. WIRE UNIT FOR SHUTDOWN UPON ACTIVATION. PROVIDE TEST SWITCH, VISUAL AND AUDIBLE ALARM.



	VENTI	ATION	REQUIREM	MENTS F	MC TABLE	403.3.1	,1
UNIT	SPACE	FLOOR AREA (SQ.FT.)	DEFAULT OCCUPANCY (P/1000SQ.FT.)	TOTAL OCCUPANTS (P)	REQUIRED OUTDOOR AIR (CFM/P)	REQUIRED OUTDOOR AIR (CFM/SQ.FT.)	TOTAL OUTDOOR AIR REQUIRED (CFM)
(E)AHU-1	OFFICE	666	5	N/A	5	0.06	56.6
	CORRIDOR	217	N/A	N/A	N/A	0.06	13.0
	STORAGE	16	N/A	N/A	N/A	0.12	1.9
							71.5
(E)AHU-2	OFFICE	965	5	N/A	5	0.06	82.0
	STORAGE	10	N/A	N/A	N/A	0.06	1.2
							83.2
(E)AHU-3	OFFICE	1511	5	N/A	5	0.06	128.4





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MECHANICAL DETAIL & NOTES CONSTRUCTION DOCUMENT

laucks engineering inc. consulting engineers E. PILHUJ P.E. FL REG 49832 ESIGN SERIAL NO.: 46 AD 4A 48 64 DC 67 99 76 OB G. INOA ALVAREZ P.E. FL REG 74056

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MECHANICAL DETAILS & NOTES