1550 SW 8TH STREET
BOYNTON BEACH, FL
INTERIOR REMODELING

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE 2020 EDITION. CONTRACTOR TO FILE WORKERS' COMPENSATION AND PAY ALL FEES REQUIRED BY ANY CITY/COUNTY DEPARTMENT.
2. ALL MATERIALS, ASSEMBLIES, AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2020 SOUTH FLORIDA BUILDING CODE.
3. ALL REQUIREMENTS OF LOCAL, STATE, AND FEDERAL CODES PERTAINING TO DISABLED PERSONS SHALL APPLY TO THE CONTRACT WORK.
4. CONTRACTOR SHALL PERFORM ALL NECESSARY PATCHING, REFINISHING, ETC., ARISING FROM THE CONTRACT WORK.
5. CONTRACTOR SHALL PROTECT ALL AREAS WITHIN THE CONTRACT LIMITS.
6. NO WORK SHALL BE DONE BEYOND BUILDING LINES WITHOUT APPROVAL OF THE FLORIDA DEPARTMENT OF TRANSPORTATION.
7. DO NOT SCALE OFF DRAWINGS.
8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ON PLANS IN THE FIELD PRIOR TO COMMENCING WORK. MERRITT ENGINEERING CONSULTANTS, D.P.C. (MEC) SHALL BE NOTIFIED OF ANY DISCREPANCIES IN WRITING.
9. CONTRACTOR SHALL PROVIDE AND MAINTAIN METHODS AND EQUIPMENT FOR PROTECTING THE BUILDING, ALL MATERIALS, AND PERSONNEL FROM FIRE DAMAGE DURING THE WORK.
10. FIRE PROTECTION AND PREVENTION DURING CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO, THE LATEST NFPA REGULATIONS AND THE CODES AND RULES OF THE FLORIDA FIRE PREVENTION CODE.
11. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, AND SHEETING REQUIRED FOR SAFETY AND PROPER EXECUTION OF THE WORK. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SUBMITTAL OF SHOP DRAWINGS FOR SHORING, WHICH SHALL BE DESIGNED BY, AND SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER.
12. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO IDENTIFY ALL SERVICES (ELECTRICAL AND MECHANICAL) THAT MAY BE AFFECTED BY THE WORK. THE CONTRACTOR SHALL MAKE ANY NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SERVICES TO ALL AREAS OF THE BUILDING OR OTHER AREAS AFFECTED BY THE WORK. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE BUILDING MANAGER OR ELECTRICAL SERVICES TO TENANTS OF THE BUILDING. COORDINATE ALL DISRUPTION OF THE MECHANICAL AND ELECTRICAL SYSTEMS WITH BUILDING MANAGEMENT.
13. NO WORK SHALL COMMENCE UNTIL THE CONTRACTOR HAS SUBMITTED ALL REQUIRED DOCUMENTS (E.G. CERTIFICATES, PERMITS, ETC.) RELATED TO INSURANCE AND WORK PERMITS.
14. THE CONTRACTOR SHALL PROVIDE AN ALL-INCLUSIVE PROJECT SCHEDULE AND SHALL PROVIDE MEC WITH A PROGRESS SCHEDULE, WHICH COORDINATES ALL PHASES OF THE WORK.
15. IT IS THE INTENT OF THE PLANS TO EXPLAIN THE REQUIREMENTS OF THE PROPOSED ALTERATIONS/REPAIRS(S). HOWEVER, FIELD CONDITIONS MAY ARISE DURING CONSTRUCTION THAT MAY NOT HAVE BEEN EXHAUSTIVELY DETAILED.
16. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED FOR MASONRY REMOVAL AND REPLACEMENT.
17. CONTRACTOR TO SUBMIT DEMOLITION PLAN FOR REVIEW BY MEC PRIOR TO COMMENCEMENT OF THE WORK. CONTRACTOR TO SCHEDULE INSPECTIONS WITH MEC UPON COMPLETION OF DEMOLITION ACTIVITIES IN ANY WORK AREA.
18. ALL TENANT SPACES SHALL BE OCCUPIED DURING CONSTRUCTION. CONSTRUCTION WORK WILL BE CONFINED TO INTERIOR AND WILL NOT CREATE DUST, DIRT, OR OTHER SUCH INCONVENIENCES IN THE OCCUPIED APARTMENT UNITS WITHIN THE BUILDING.
19. ALL EXISTING MEANS OF EGRESS FOR TENANTS OF THE BUILDING SHALL BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, EQUIPMENT, ETC.
20. CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS, 8 AM TO 5 PM, MONDAY THROUGH FRIDAY. CONTRACTOR SHALL OBTAIN THE WRITTEN CONSENT OF ALL PARTIES AFFECTED BY ANY WORK DURING OTHER THAN REGULAR HOURS.
21. WORK SHALL COMPLY WITH ALL SAFETY AND HEALTH LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, PROVISIONS AND REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND/OR THE CONSTRUCTION SAFETY ACT OF 1969, AS AMENDED.
22. WORK WILL NOT AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.
23. ANY REMOVAL OF ASBESTOS OR LEAD-CONTAINING MATERIALS SHALL BE PERFORMED IN COMPLIANCE WITH ALL CITY, STATE, AND FEDERAL REQUIREMENTS.
24. CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE BUILDING RELATING TO WORKING HOURS, RUBBISH REMOVAL, DELIVERIES, AND PROTECTION OF AREAS OUTSIDE THE ACTUAL WORK AREA.
25. CONTRACTOR SHALL MAINTAIN STRUCTURAL INTEGRITY OF ADJOINING WALLS AND PROTECT FROM DAMAGE.
26. CONTRACTOR SHALL DETERMINE THE LOCATION OF AND PROTECT ALL UTILITIES ON THE SITE AND ON ADJACENT SITES. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AFFECTED BY THE WORK AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
27. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REQUIREMENTS OF THE FLORIDA BUILDING CODE AND OTHER REQUIREMENTS, RULES, AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ANY OTHER AGENCIES HAVING JURISDICTION.
28. NOISE LEVELS RELATED TO CONSTRUCTION WORK MUST COMPLY WITH ALL CITY, STATE, AND FEDERAL REQUIREMENTS.

TENANT PROTECTION PLAN:

CONTRACTOR SHALL SUBMIT A TENANT PROTECTION PLAN TO MERRITT ENGINEERING CONSULTANT DPC (MEC) AND TO THE HOME OWNERS ASSOCIATION (HOA).
THE TENANT PROTECTION PLAN SHALL CONTAIN A STATEMENT THAT THE BUILDING CONTAINS DWELLING UNITS THAT WILL BE OCCUPIED DURING CONSTRUCTION AND SHALL INCLUDE, IN SUFFICIENT DETAIL, THE SPECIFIC UNITS THAT ARE OR MAY BE OCCUPIED DURING CONSTRUCTION, THE MEANS AND METHODS TO BE EMPLOYED TO SAFEGUARD THE SAFETY AND HEALTH OF THE OCCUPANTS, INCLUDING, WHERE APPLICABLE, DETAILS SUCH AS TEMPORARY FIREWATED ASSEMBLIES, OPENING PROTECTIVE, OR DUST CONTAINMENT PROCEDURES. THE ELEMENTS OF THE TENANT PROTECTION PLAN MAY VARY DEPENDING ON THE NATURE AND SCOPE OF THE WORK BUT AT A MINIMUM SHALL MAKE DETAILED AND SPECIFIC PROVISIONS AS FOLLOWS:

1. EGRESS. AT ALL TIMES IN THE COURSE OF CONSTRUCTION PROVISION MUST BE MADE FOR ADEQUATE EGRESS. REQUIRED EGRESS CANNOT NOT BE OBSTRUCTED AT ANY TIME.
2. FIRE SAFETY. ALL NECESSARY FIRE AND CONTROLS, INCLUDING THOSE WITH RESPECT TO OCCUPIED DWELLINGS, AS WELL AS ADDITIONAL SAFETY MEASURES NECESSITATED BY THE CONSTRUCTION MUST BE STRICTLY OBSERVED.
3. HEALTH REQUIREMENTS. CONTRACTOR MUST INCLUDE SPECIFICATION OF MEANS AND METHODS TO BE USED FOR CONTROL OF DUST, DISPOSAL OF CONSTRUCTION DEBRIS, PEST CONTROL AND MAINTENANCE OF SANITARY FACILITIES, AND LIMITATION OF NOISE TO ACCEPTABLE LEVELS.
   1.) PROVIDE STATEMENT OF COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF LAW RELATING TO LEAD AND ASBESTOS, AND SUCH STATEMENT MUST DESCRIBE WITH PARTICULARITY WHAT MEANS AND METHODS ARE BEING UNDERTAKEN TO MEET SUCH COMPLIANCE.
4. STRUCTURAL SAFETY. NO STRUCTURAL WORK IS TO BE DONE AT ANYTIME THAT MAY ENDANGER THE OCCUPANTS.
5. NOISE RESTRICTIONS. WHERE HOURS OF THE DAY OR THE DAYS OF THE WEEK IN WHICH CONSTRUCTION WORK MAY BE UNDERTAKEN ARE LIMITED PURSUANT TO THE CITY/COUNTY NOISE CONTROL CODE, SUCH LIMITATIONS SHALL BE STATED IN THE TPP.
6. UTILITY SERVICES. IF ANY UTILITIES, SUCH AS HEAT, HOT WATER, COLD WATER, GAS, ELECTRICITY, OR OTHER UTILITY SERVICES ARE PROVIDED TO ANY BUILDING OR ANY DWELLING UNIT LOCATED THEREIN, THE TENANT PROTECTION PLAN SHALL SPECIFY THE MEANS AND METHODS TO BE USED FOR MAINTAINING SUCH SERVICES DURING SUCH WORK. IF A DISRUPTION OF ANY SUCH SERVICE IS ANTICIPATED DURING THE WORK, THEN SUCH PLAN SHALL SPECIFY THE ANTICIPATED DURATION OF SUCH DISRUPTION AND THE MEANS AND METHODS TO BE EMPLOYED TO MINIMIZE SUCH DISRUPTION, INCLUDING THE PROVISION OF SUFFICIENT ALTERNATIVES FOR SUCH SERVICE DURING SUCH DISRUPTION.

GENERAL NOTES:

1. NO ALTERATION TO THE STRUCTURAL MEMBERS ARE ALLOWED. CONSULT ENGINEER IF ANY DISCREPANCIES OR CONFLICTS ARE FOUND.
2. NO COMBUSTIBLE MATERIALS ARE ALLOWED ABOVE THE FINISHED CEILING.
3. ANY EQUIPMENT, DUCTWORK, REGISTER, ABANDONED AND/OR NOT USED EQUIPMENT, FIXTURES, ETC SHALL BE REMOVED. CONSULT ENGINEER PRIOR TO REMOVAL.
4. ANY UNNOTED EXISTING CONDITIONS WHICH MAY CONFLICT WITH THE PROPOSED NEW WORK AND MAY REQUIRE MODIFICATION, RELOCATION AND/OR REMOVAL SHALL BE IDENTIFIED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER.
5. THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING WIRING, CABLING OR WIREWAYS WITHOUT FIRST CONSULTING WITH THE ENGINEER.
6. CONTRACTOR TO COORDINATE FIXTURE CLEARANCES AND CONTACT THE ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO START OF WORK.

LIFE SAFETY GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE, FLORIDA FIRE PREVENTION CODE, 7TH EDITION & APPLICABLE CODES.
2. PROVIDE FIRE STOPPING AND REHABILITATION PER THE 2017 FLORIDA FBC EXISTING BUILDING CODE, CHAPTER 43, SECTION 4311 - RENOVATION.
3. BUILDING SPRINKLERED. SUBMIT SHOP DRAWINGS FOR ANY MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM.

SCOPE OF WORK:

1. GENERAL CONDITIONS (INCLUDING MOBILIZATION, INSURANCE, SITE SUPERVISION, SHOP DRAWINGS, SUBMITTALS, PROTECTION, ETC.
2. REMOVE EXISTING & PARTITIONS, FIXTURES & ACCESSORIES AS SHOWN ON PLANS.
3. FURNISH AND INSTALL NEW BATHROOM FIXTURES AND ACCESSORIES.
4. FURNISH AND INSTALL NEW KITCHEN CABINETS AND FIXTURES.
5. LEVEL, PATCH AND REPAIR EXISTING FLOOR, AS NEEDED, TO RECEIVE NEW FLOORING. NEW FLOORING SHALL BE STABLED, FIRM AND SLIP RESISTANCE.
6. FURNISH AND INSTALL NEW FLOOR TILE AND WOOD FLOOR, INSTALL PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS.
7. FURNISH AND INSTALL NEW DOORS AND FRAMES (CONSULT OWNER FOR FINISH/PAINT) WITH ALL HARDWARE, AND FINISHED PER CLIENT'S STANDARD AND PER ARCHITECT.
8. TAPING AND SPACKLING OF NEW DRYWALL. NON LOAD BEARING PARTITION AND REPAIR EXISTING PARTITIONS TO REMAIN AS REQUIRED.
9. FURNISH AND INSTALL NEW ELECTRICAL OUTLETS, LIGHT OUTLETS, INCLUDING ASSOCIATED WIRING AND CONNECT TO EXISTING CIRCUITS IN EXISTING ELECTRICAL PANEL. SOME EXISTING LIGHTS TO BE RELOCATED TO MATCH NEWER LIGHTS.
10. HVAC UNIT, CEILING DIFFUSERS AND RETURN GRILLES EXISTING TO REMAIN, REFER TO MECHANICAL PLANS FOR NEW ONES.
11. FURNISH AND INSTALL PLUMBING FIXTURES.
12. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, EXISTING FIELD CONDITIONS AND EQUIPMENT LOCATION PRIOR TO START OF WORK. NOTIFY ENGINEER IF ANY DISCREPANCIES ARE FOUND.

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DATA & CALCULATIONS

FLOOR AREA:
4,200 SF APPROXIMATE GROSS AREA - ONE STORY

USE - ASSEMBLY GROUP A-3 - PROFESSIONAL SERVICES PER FBC SECTION 303

SPRINKLERED

LEVEL OF ALTERATION: LEVEL 1 -INTERIOR REMODELING PER FBC 2020 7th EDITION-EXISTING BUILDINGS

TYPE OF CONSTRUCTION: TYPE IIB

OCCUPANT LOAD - 280 OCCUPANTS
4,2 00 SF / 15 = 280 OCCUPANTS

EGRESS CAPACITY FACTOR = 0.2 INCH PER OCCUPANT
REQUIRED 56 INCHES
PROVIDED 168 INCHES

NOTE: POSTED OCCUPANT LOAD SIGN. THE SIGN SHALL BE POSTED NOT MORE THAN 60" OR LESS THAN 48" ABOVE THE FLOOR. THE SIGN SHALL HAVE 1" BLOCK LETTERS & NUMBERS WITH A CONTRASTING BACKGROUND.

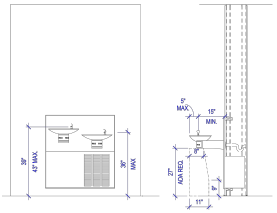
THE SIGN SHALL READ: "MAXIMUM OCCUPANCY "

COMMON PATH OF TRAVEL, MAX. ALLOWED 100' PROVIDED 53'
MAXIMUM TRAVEL DISTANCE ALLOWED 300' PROVIDED 133'

PLUMBING FIXTURES REQUIREMENTS

NUMBER OF ASSEMBLY OCCUPANCY TOTAL - 280	AS PER FBCP TABLE 403.1		
	FIXTURE	REQUIRED	PROVIDED
	MALE WC (1 per 40)	3.5	3
	FEMALE WC (1 per 40)	3.5	3
	PRIVATE BATHROOM	—	1
	MALE URINAL (1 per 75)	4	4
	DRINKING FOUNTAIN	1	1
	SERVICE SINK	1	1

1 BUILDING LOCATION SKECTH
SCALE: N.T.S.



2 HI-LO DRINKING FOUNTAIN DETAIL
SCALE: 1/2"=1'-0"

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

DRAWING TITLE:
BUILDING LOCATION
SKETCH & NOTES

DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 90312

DATE:	04.06.23
PROJECT NO.:	23-014
DRAWN BY:	RB
CHECKED BY:	RB
DRAWING NO.:	T-100.00
PAGE:	1 OF 14

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DEMOLITION NOTES :

1.COORDINATION:

1.1 INSPECT PROJECT AREA TO ASCERTAIN EXTENT OF DEMOLITION, REMOVAL AND SALVAGE WORK.

1.2 SCHEDULING: CERTAIN AREAS ADJACENT TO THE DEMOLITION REMOVAL OF WORK WILL BE OCCUPIED & THEIR ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS, CONSULT WITH OWNER AND SCHEDULE DEMOLITION AND REMOVAL WORK ACCORDINGLY.

1.3. COORDINATE WITH APPLICABLE UTILITY COMPANIES AND OWNER FOR UTILITY LINE REMOVAL, CAPPING AND UTILITY SHUTDOWNS NECESSITATED BY REMOVAL WORK.

1.4 ASSIGN REMOVALS AND RELOCATION TO APPROPRIATE TRADES SUITED FOR THE TYPE OF WORK TO AVOID UNNECESSARY DAMAGE DUE TO UNSKILLED WORKMANSHIP.

2.PROJECTION:

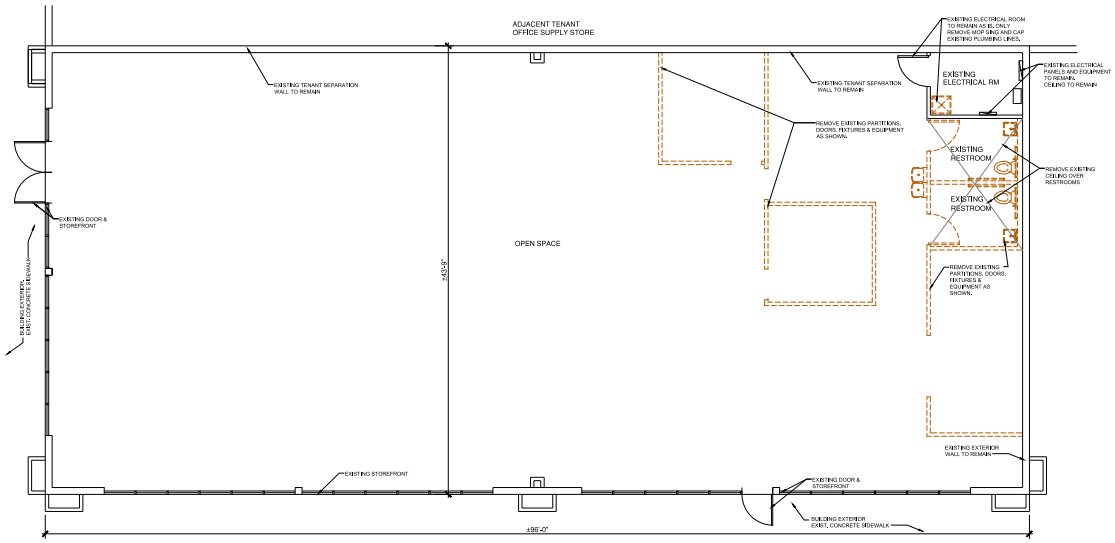
2.1 EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO OWNER

2.2 ALL ELECTRICAL EQUIPMENT SHALL BE REMOVED FROM STRUCTURE. WIRE SHALL BE REMOVED BACK TO SOURCE FROM RACEWAYS NOT REUSED OR MAIN SOURCE OF POWER, COORDINATE WITH FPL PRIOR TO START OF WORK.

2.3 ALL PLUMBING LINES WHICH REQUIRE REMOVAL SHALL BE CAPPED AND RE-ROUTED AS REQUIRED

2.4 COORDINATE WITH THE LANDLORD OR HIS/HER REPRESENTATIVE PERTAINING TO ANY DEMOLITION REQUIREMENT AND PROVISION AS REQUIRED.

2.5 MAINTAIN ALL FIRE SEPARATIONS BETWEEN TENANT SPACES AS REQUIRED BY APPLICABLE CODES DURING DEMOLITION WORK.



1 PARTIAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

DRAWING TITLE:
PARTIAL
INTERIOR DEMOLITION PLAN

DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 90312

DATE:	04.06.23
PROJECT NO.:	23-014
DRAWN BY:	RB
CHECKED BY:	RB
DRAWING NO.:	D-100
PAGE:	2 OF 14

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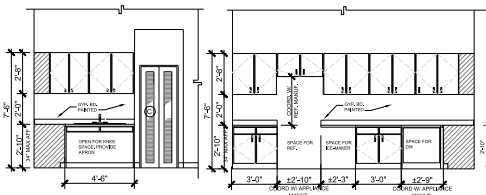
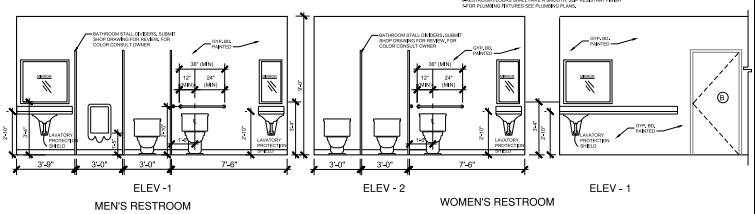
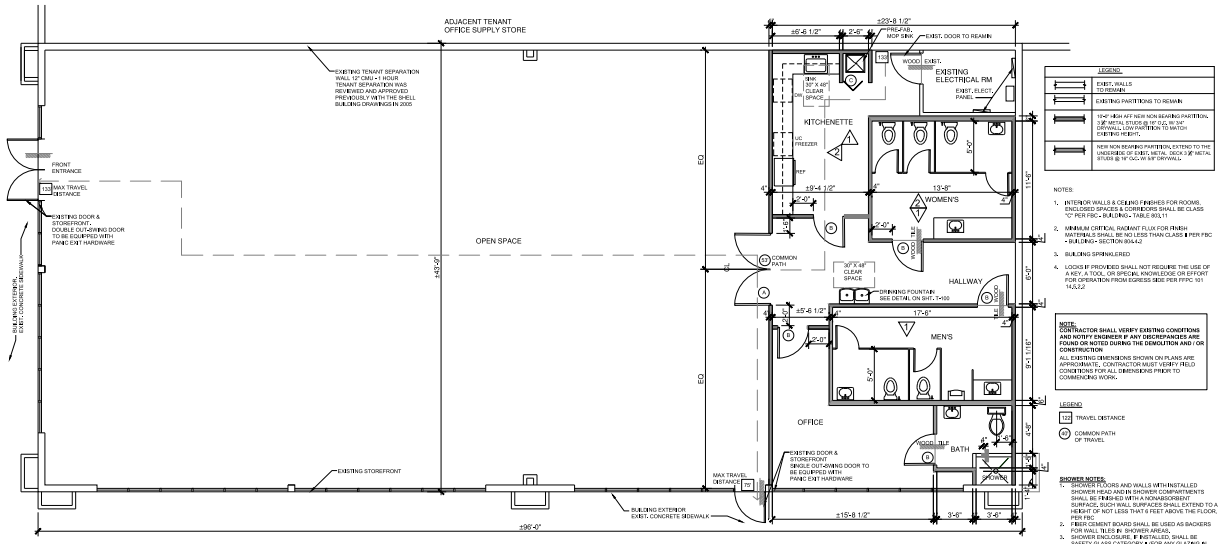


3 KITCHENETTE CABINET ELEVATIONS
SCALE: 3/8"=1'-0"

RESTROOM NOTES:
1. ACCESSIBLE TOILET STALLS SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL MEET THE REQUIREMENTS OF THE F.B.C. ACCESSIBILITY CHAPTER 6
2. WATER CLOSETS IN ACCESSIBLE STALLS SHALL COMPLY WITH F.B.C. ACCESSIBILITY CHAPTER 6
3. LAVATORIES, FAUCETS AND MIRRORS SHALL COMPLY WITH F.B.C. ACCESSIBILITY CHAPTER 6
4. ACCESSIBLE TOILET STALL DOORS SHALL COMPLY WITH F.B.C. ACCESSIBILITY CHAPTER 6
5. THE DIAMETER OR DEPTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 IN. TO 1-1/2 IN. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 IN.
6. RESTROOM FLOORS SHALL HAVE A SMOOTH, SLIP RESISTANT FINISH
7. FOR PLUMBING FIXTURES SEE PLUMBING PLANS.



3 INTERIOR RESTROOM ELEVATIONS
SCALE: 3/8"=1'-0"



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

LEGEND

	EXIST. WALLS TO REMAIN
	EXISTING PARTITIONS TO REMAIN
	1'-0" HIGH A/T NEW NON BEARING PARTITION, 3 5/8" METAL STUDS @ 16" O.C. W/ 3/4" PLYWOOD ON EACH SIDE TO MATCH EXISTING HEIGHT.
	NEW NON BEARING PARTITION, EXTEND TO THE UNDERSIDE OF EXIST. METAL DECK 3 5/8" METAL STUDS @ 16" O.C. W/ 5/8" DRYWALL.

NOTES:
1. INTERIOR WALLS & CEILING FINISHES FOR ROOMS, ENCLOSED SPACES & CORRIDORS SHALL BE CLASS "C" PER FBC - BUILDING - TABLE 803.11
2. MINIMUM CRITICAL RADIANT FLUX FOR FINISH MATERIALS SHALL BE NO LESS THAN CLASS II PER FBC - BUILDING - SECTION 806.4.2
3. BUILDING SPRINKLERED
4. LOCKS IF PROVIDED SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM EGRESS SIDE PER FFPC 101 14.3.3.2

NOTE:
CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IF ANY DISCREPANCIES ARE FOUND OR NOTED DURING THE DEMOLITION AND / OR CONSTRUCTION
ALL EXISTING DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE, CONTRACTOR MUST VERIFY FIELD CONDITIONS FOR ALL DIMENSIONS PRIOR TO COMMENCING WORK.

LEGEND
122 TRAVEL DISTANCE
50 COMMON PATH OF TRAVEL

SHOWER NOTES:
1. SHOWER FLOORS AND WALLS WITH INSTALLED SHOWER HEAD AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. PER FBC
2. FIBER CEMENT BOARD SHALL BE USED AS BACKERS FOR WALL TILES IN SHOWER AREAS.
3. SHOWER ENCLOSURE, IF INSTALLED, SHALL BE SAFETY GLASS CATEGORY II (FOR ANY GLAZING IN THE BATHROOM), SHOWER DOOR OPENING MIN. CLEAR FINISHED WIDTH OF 22 INCHES.

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

DRAWING TITLE:
FLOOR LAYOUT
INT. ELEVATIONS & NOTES

DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KIBERCIO, P.E.
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PAGE:	2 OF 14

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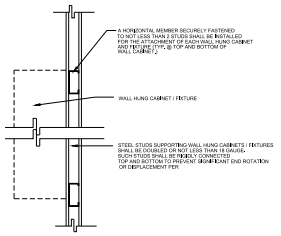
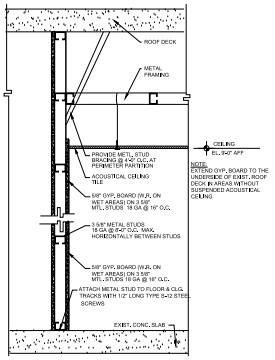
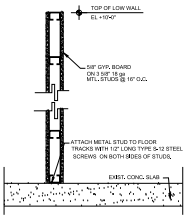


4 WALL HUNG CABINET/ PLUMBING FIXTURE DETAIL
SCALE: N.T.S.



3 NON BEARING PARTITION DETAIL
SCALE: 3/8"=1'-0"



2 INTERIOR NON BEARING LOW PARTITION DETAIL
SCALE: N.T.S.

DOOR SCHEDULE			
MARK	TYPE / DOOR LOCATION	DOOR SIZE	FINISH
A	SOLID WOOD / CONSULT OWNER	7'-0" X 10'-0"	CONSULT OWNER
B	HOLLOW CORE	3'-0" X 6'-8" X 1 3/8"	CONSULT OWNER
C	BI-FOLD LOUVERED	2'-0" X 6'-8"	CONSULT OWNER

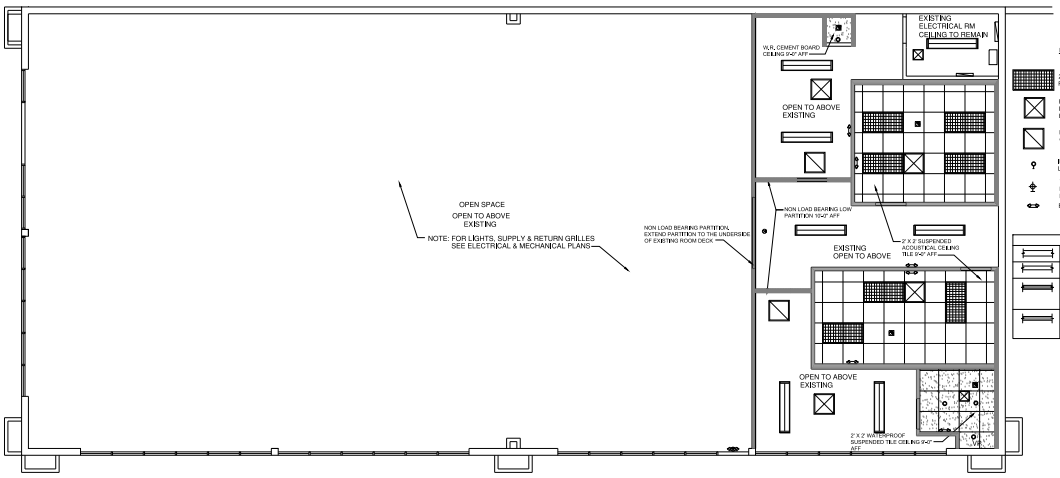
NOTES:
1. ALL DOORS SERVING SPACES REQUIRED TO BE ACCESSIBLE MUST BE EQUIPPED WITH ACCESSIBLE OPERABLE HANDLES (LEVER HANDLES) PER FBC 1010.1.9 & 702.1 +FBCA 404.2.7 & 309.4
2. ALL DOORS IN THE PATH OF EGRESS SHALL BE OPERABLE WITH NOT MORE THAN ONE HELD-DOWN OPERATION & SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT PER FBC 1010.1.9 & 1003.3.1.9
3. LOCKS IF PROVIDED SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM EGRESS SIDE PER FPPC 101 14.5.2.2

ROOM FINISH SCHEDULE					
ROOM	WALL	FLOOR	BASE	CEILING	CLG. HT.
OPEN SPACE	EXIST.& GYP. BOARD PAINTED	WOOD	WOOD	EXISTING / EXPOSED	EXIST
HALLWAY	GYP. BOARD / PAINTED	WOOD	WOOD	EXISTING / EXPOSED	EXIST
BATH: WOMEN'S & MEN RESTROOMS	GYP. BOARD / PAINTED+WR ON WET AREAS	TILE	QUARL.	SUSPENDED ACOUSTICAL TILE + WATERPROOF ON SHOWER	7'-0"
OFFICE	EXIST. & GYP. BOARD PAINTED	WOOD	WOOD	EXISTING / EXPOSED	EXIST
KITCHENETTE	EXIST. & GYP. BOARD PAINTED	WOOD	WOOD	EXISTING / EXPOSED	EXIST
ENTR., ELECT. RM	EXISTING	EXIST.		EXISTING	EXIST

NOTES:
1. INTERIOR WALLS & CEILING FINISHES FOR ROOMS, ENCLOSED SPACES & CORRIDORS SHALL BE CLASS "C"
2. MINIMUM CRITICAL RADIANT FLUX FOR FINISH MATERIALS SHALL BE NO LESS THAN CLASS II PER FBC 804.2

ACCESSIBILITY NOTES:
1. CHANGES IN LEVEL UP TO ¼" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN ¼" AND ½" HIGH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. PER SECTION 303
2. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS. INCLUDING TRAILS, WALKS, RAMPS, STAIRS AND CURB RAMPS SHALL BE STABLE FIRM, SLIP RESISTANT, FLATCH, REPAIR AND LEVEL. EXISTING FLOORS TO RECEIVE NEW FLOOR FINISH
3. DOOR HARDWARE SHALL COMPLY WITH THE "FLORIDA ACCESSIBILITY CODE" & FLORIDA FIRE PREVENTION CODE 36.2.2.

NEW SOLID HARDWOOD FLOOR NOTES:
1. PRE-FINISHED SOLID HARDWOOD FLOORING. FOR WOOD GRADE AND COMMERCIAL LIMITED WARRANTY CONSULT OWNER. FLOORING AS MANUFACTURED BY BELLAWOOD OR APPROVED EQUAL.
2. FURNISH & INSTALL NEW WOOD FLOOR PER THE MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS, FOLLOW THE NATIONAL WOOD FLOORING ASSOCIATION GUIDELINES. SEE FLOOR LAYOUT AND FINISH SCHEDULE FOR AREAS TO RECEIVE NEW WOOD FLOOR.
3. CONTRACTOR SHALL ENSURE THAT THE EXTERIOR DOORS, CABINETS, APPLIANCES, FIXTURES, ETC. HAVE SUFFICIENT CLEARANCE TO ACCOMMODATE NEW GLUE-DOWN WOOD FLOORING.
4. FURNISH AND INSTALL NEW WOOD BASEBOARD. CONSULT OWNER.
5. CONTRACTOR TO EXAMINE THE SUB-FLOOR / CONCRETE SLAB TO ENSURE IT MEETS THE WOOD FLOOR MANUFACTURER'S SPECIFICATIONS. SUBSTRATES THAT ARE NOT LEVEL, PRESENT CRACKS OR WITH STRUCTURAL DEFICIENCIES SHOULD BE REPAIRED PRIOR TO WOOD FLOOR INSTALLATION.



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND:

- 2X4 LIGHT FIXTURE
- LED 4' LIGHT
- EXIST. CLG. DIFFUSER TO BE RELOCATED
- EXH. FAN
- RETURN GRILLE
- INCANDENCENT LIGHT FIXT. VP
- INCANDENCENT LIGHT FIXT.
- WALL MOUNTED LIGHT FIXT.
- EMERGENCY LIGHT

LEGEND:

- EXIST. WALLS TO REMAIN
- EXISTING PARTITIONS TO REMAIN
- 10'-0" HIGH AFF NEW NON BEARING PARTITION, 3 5/8" METAL STUDS @ 16" O.C. W/ 3/4" DRYWALL, LOW PARTITION TO MATCH EXISTING HEIGHT.
- NEW NON BEARING PARTITION, EXTEND TO THE UNDERSIDE OF EXIST. METAL DECK 3 5/8" METAL STUDS @ 16" O.C. W/ 5/8" DRYWALL.

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

DRAWING TITLE:
REFLECTED CLG. PLAN
DETAILS, SCH. & NOTES

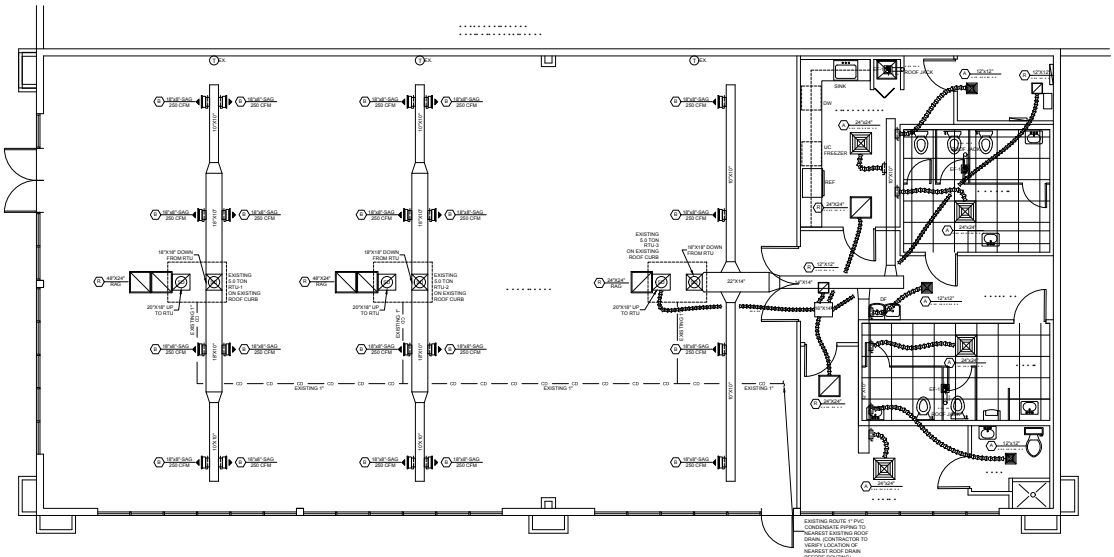
DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 56512

DATE:	04.06.23
PROJECT NO.:	23-014
DRAWN BY:	RB
CHECKED BY:	RB
DRAWING NO.:	A-101
PAGE:	2 OF 14

C:\USERS\RBRAZO\ME\DOCUMENTS_ME\23-014 DANCE STUDIO_R8.RVT\DTS\23-014 DANCE STUDIO_R8.RVT\DTS\23-014 DANCE STUDIO_R8.RVT\DWG\23-014 DANCE STUDIO_R8.DWG | Plot Date: Apr 13, 2023 - 3:44 PM
Plot Name: ME - 36x24D | Date Saved: 4/13/2023 3:43:07 PM



MECHANICAL PLAN

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

HVAC LEGEND

	RIGID SUPPLY AIR DUCTWORK (EXIST.)	T	NEW THERMOSTAT
	RIGID SUPPLY AIR DUCTWORK (NEW)		
	CLASS 1 FLEXIBLE DUCT (EXISTING)	DDS	SMOKE DUCT DETECTOR STATION
	CLASS 1 FLEXIBLE DUCT (NEW)		
	RETURN AIR DUCTWORK (EXISTING)	SD	NEW SMOKE DETECTOR
	RETURN AIR DUCTWORK (NEW)		
	DUCT UNDER POSITIVE PRESSURE		MANUAL VOLUME DAMPER
	DUCT UNDER NEGATIVE PRESSURE		EXHAUST FAN
	CEILING DIFFUSER		MOTORIZED AIR DAMPER
	SIDEWALL DIFFUSER		BACKDRAFT DAMPER
	RETURN AIR GRILLE		1HR RATE FIRE DAMPER

AIR DISTRIBUTION SCHEDULE

SYMBOL	USE	TYPE	COLOR	MFG. & MODEL NO.	REMARKS
A	SUPPLY AIR	CEILING DIFFUSER	WHITE	TITUS 300FL	OR APPROVED EQUAL VERIFY WITH OWNER
B	SUPPLY AIR	WALL DIFFUSER	WHITE	TITUS 250	OR APPROVED EQUAL VERIFY WITH OWNER
C	RETURN AIR	RETURN GRILLE	WHITE	TITUS 350R	OR APPROVED EQUAL VERIFY WITH OWNER

NOTES:

1. FOUR WAY DIRECTION OF AIR DISTRIBUTION. (UNLESS INDICATED ON PLANS).
2. MAXIMUM NOISE CRITERIA: 25/30.
3. MAXIMUM NECK VELOCITY: 500FPM.
4. DIFFUSERS AND GRILLES IN ALUMINUM CONSTRUCTION.
4. SUPPLY AIR DIFFUSERS AND GRILLES WITH MANUAL VOLUME DAMPER

CONTRACTOR TO VERIFY THAT PROPOSED WORK IS NOT AFFECTING ANY REFRIGERANT OR CONDENSATE LINE, NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR

ALL MECHANICAL WORK TO COMPLY WITH FBC 2020 (7TH ED)

HVAC DESIGN CHART.

	YES	NO
HVAC DESIGN REQUIRED		
DUCT SMOKE DETECTOR	✓	
FIRE DAMPERS		✓
SMOKE DAMPERS		✓
FIRE RATED ENCLOSURES		✓
FIRE RATED ROOF/FLOOR D.I.D. ASSEMBLY		✓
FIRE STOPPING		✓
SMOKE CONTROL		✓

OUTDOOR AIR SUPPLY AND EXHAUST HOODS, SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SPACES SERVED ARE NOT IN USE.

THE DUCT SMOKE DETECTORS SHALL BE CONNECTED TO A FIRE ALARM SYSTEM WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE FLORIDA FIRE PREVENTION CODE. THE ACTUATION OF A DUCT SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.5, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

CONTRACTOR SHALL VERIFY ALL MECHANICAL REQUIREMENTS WITH OWNER AND EQUIPMENT MANUFACTURER AND NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR.

PROVIDE INTAKE HOODS WITH MOTORIZED DAMPERS FOR OUTSIDE AIR,WITH RESPECTIVE INTERLOCKING BETWEEN RTU THERMOSTATS AND ACTUATORS. (TYPICAL FOR ALL HVAC SYSTEMS). CONTROLS COMPANY MUST BE HIRED FOR CONTROL SEQUENCE AND INSTALLATION.

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DANCE STUDIO

DRAWING TITLE:
MECHANICAL
PLAN

DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 50312

DATE: 04.06.23
PROJECT NO.: 23-014
DRAWN BY:
CHECKED BY:
DRAWING NO.:
M-100
PAGE: 5 OF 14

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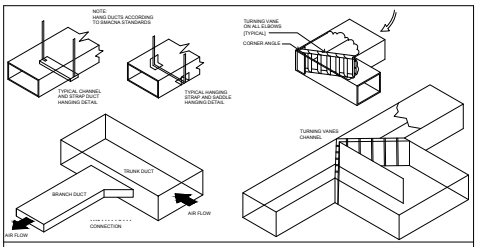
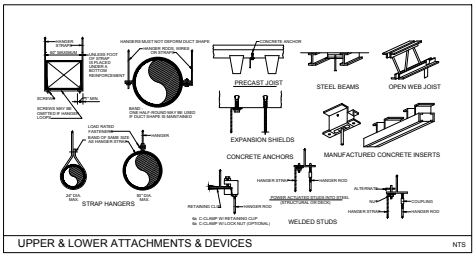
AIR CONDITIONING NOTES

1. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT, PIPING, DUCTWORK, ETC. AND SHALL CONFORM WITH THE SOUTH FLORIDA BUILDING CODE (FMC 2020). ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.
2. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING INSTALLATION.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY THE ARCHITECT AND / OR ENGINEER MUST BE CONDITION OF THE CONTRACT.
4. CONTRACTOR WILL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE WITH EXISTING CONDITIONS.
6. PRIOR TO INSTALLING EQUIPMENT AND/OR FABRICATING DUCTWORK, A.C. CONTRACTOR SHALL CHECK THAT THERE IS SUFFICIENT CLEARANCES FOR EQUIPMENT , DUCTWORK, ETC. AND ALSO TO AVOID ANY INTERFERENCE WITH THE PROCESS OF CONSTRUCTION.
7. ALL REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OD THE WORK.
8. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, AND ORDINANCES.
9. ALL DUCTWORK SHALL CONFORM TO SMACNA STANDARDS. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS. ALL VENTILATION DUCTWORK SHALL BE GALVANIZED SHEETMETAL. ALL AIR CONDITIONING DUCTWORK SHALL BE FIBERGLASS BOARD AND MUST CONFORM WITH ALL LOCAL CODES, UNLESS OTHERWISE NOTED.
10. SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, FOR REVIEW PRIOR TO PURCHASING.
11. AIR DISTRIBUTION ACCESSORIES SHALL BE AIR GUIDE, ANEMOSTAT, TITUS, OR APPROVED EQUAL.
12. ALL SUPPLY A.C. DUCT ELBOWS MUST BE FURNISHED WITH APPROVED TURNING VANES.
13. BRANCH TAKEOFFS MUST BE PROPORTIONAL SPLITS SHOWN ON DRAWINGS.
14. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD NOT LESS THAN 1 YEAR FROM THE DATE OF ACCEPTANCE, UNLESS OTHERWISE NOTED.
15. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIRS OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED OR IS NOT OPERATING PROPERLY.
16. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS FOR SUBSTITUTIONS BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
17. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS SET GUIDE. ASHRAE FORTH IN THE LATEST.
18. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL WHERE APPLICABLE.
19. IF THERE ARE ANY CHANGES IN ENGINEER'S DRAWINGS, IN DESIGN OR IN EQUIPMENT, WITHOUT ENGINEER'S CONSENT, THE A.C. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITIES FOR THE PROJECT.
20. DUCT R VALUE SHALL BE A MINIMUM OF 6.



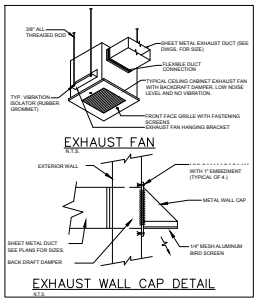
HVAC DUCT DETAILS

NTS



UPPER & LOWER ATTACHMENTS & DEVICES

NTS

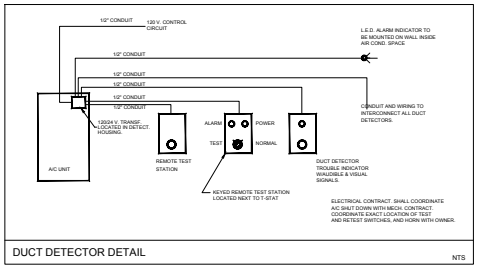


EXHAUST FAN

N.T.S.

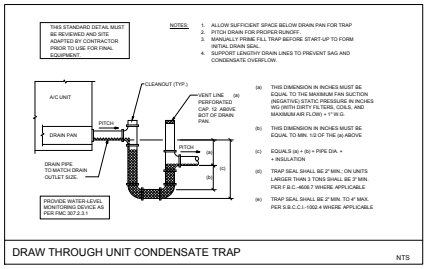
EXHAUST WALL CAP DETAIL

N.T.S.



DUCT DETECTOR DETAIL

NTS



DRAW THROUGH UNIT CONDENSATE TRAP

NTS

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DRAWING TITLE:
MECHANICAL
DETAILS

DOB B-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

No. 60012
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CHRISTOPHER KREPCIO, P.E.
Florida License No. 60012

DATE: 04.06.23
PROJECT NO.: 23-014
DRAWN BY:
CHECKED BY:
DRAWING NO.:
M-200
PAGE: 6 OF 14

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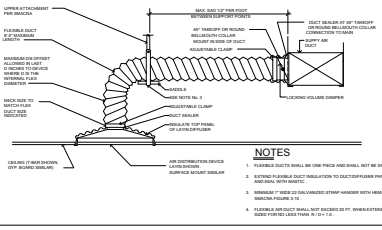
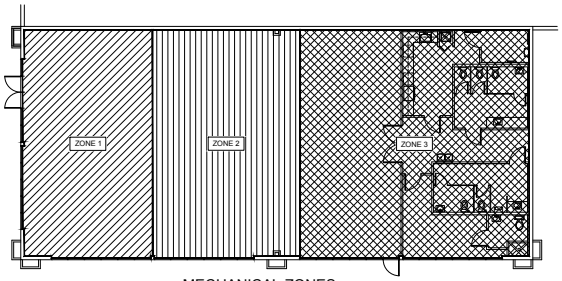


NOTES

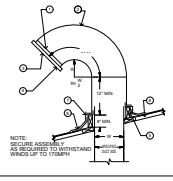
1. FLEXIBLE DUCTS SHALL BE ONE PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. MINIMUM 1" WIDE 22 GAL/galvanized STRAP HANGER WITH HEMMED EDGES PER SMACNA FIGURE 3-10.
4. FLEXIBLE AIR DUCT SHALL NOT EXCEED 25 FT. WHEN EXTENDED. ELBOW RADIUS SIZED FOR NO LESS THAN R/D = 1.0.

FLEXIBLE DUCT TAKEOFF DETAIL NTS



MECHANICAL ZONES

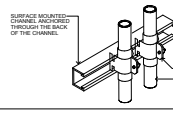
SCALE: N.T.S.



NOTES:

1. ANGLE RIVETED OR SPOT WELDED AS REQUIRED
2. STANDARD DUCT MADE WATER TIGHT
3. 1/2" SCREEN
4. PROVIDE ALUMINUM BIRD SCREEN
5. ROOF CURB - REFER TO ARCH. DWGS. FOR DETAIL.
6. ROOF
7. FLASHING
8. ROOFING
9. SECURE GOOSENECK TO CURB W/ #10 TEK SCREWS MIN. 2 PER SIDE, MAX. 12" O.C.

TYPICAL GOOSENECK DETAIL NTS



REFRIGERANT PIPE RISER SUPPORT DETAIL NTS

CONTROL NOTES

HVAC CONTRACTOR IS RESPONSIBLE OF PROVIDING CONTROL SYSTEMS AND CO2 SENSORS, TEMPERATURE SENSORS, ANALOG VOLUME DAMPERS, MOTORIZED DAMPERS, ETC AND THEIR INTERLOCKING WITH THE HVAC SYSTEM TO ACHIEVE THE SEQUENCE OF OPERATION. HVAC OF A CONTROLS COMPANY IS STRONGLY ADVISED BY THE ENGINEER TO PROVIDE A COMPLETE SYSTEM. THE HVAC CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE SYSTEM AS REQUIRED BY THE ENGINEER BEFORE ANY PURCHASING OR INSTALLATION AND BEFORE ANY CONTACT OR PROBLEM WITH ENGINEER.

EXHAUST FAN SCHEDULE

UNIT NUMBER		EF-1
QUANTITY		1
AREA SERVED		BATHS/JANITOR
LOCATION		BATHS/JANITOR
FAN TYPE		CLG CABINET
DRIVE	BELT/DIRECT	DIRECT
FAN SPEED	RPM	750
AIR QUANTITY	CFM	110
TOTAL STATIC PRESSURE	H2O	0.1"
FAN OUTLET	IN	- - - -
POWER CONSUMPTION	WATTS	21.1
VOLTAGE	- - - -	120/1/60
MANUFACTURER		PANASONIC
MODEL NUMBER		FV-11VQ5
REMARKS		1,2

PROVIDE: 1. HANGING VIBRATION ISOLATORS
2. INTERLOCK W/ LIGHT SWITCH
3. [illegible]
4. WITH INTEGRAL BACKDRAFT DAMPERS

FRESH AIR CALCULATION (TABLE 403.3 FMC)

SPACE	ZONE	Az (SF)	Ra (CFM/SF)	Pz (PER)	Rp (CFM/PER)	OD (#/1000SF)	Vbz (CFM)
OPEN SPACE	1,2,3	3,025	0.12	108	10	30	1,423
KITCHENETTE	3	182	0.06	6	5	30	41
ELECTRICAL ROOM	3	30	0.06	-	-	-	3
HALLWAY	3	176	0.06	-	-	-	11
MENS	3	550	-	-	-	-	-
WOMENS	3	187	-	-	-	-	-
OFFICE	3	174	0.06	1	5	5	16
BATH	3	51	-	-	-	-	-

	SA	OA	%OF SA
RTU-1 (2-T)	2,000	475	23.8%
RTU-2 (2-2)	2,000	475	23.8%
RTU-3 (2-3)	2,000	546	27.3%

NOTES:
Az = AREA (SF)
OD = OCCUPANCY DENSITY (TABLE 403.3)
Pz = OCCUPANCY (Az * OD / 1000)
Rp = PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON) (TABLE 403.3)
Ra = AREA OUTDOOR AIRFLOW RATE (CFM/SF) (TABLE 403.3)
Vbz = BREATHING ZONE OUTDOOR AIRFLOW (Vbz = RpPz + RaAz)

OUTDOOR AIR SUPPLY AND EXHAUST HOODS, SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SPACES SERVED ARE NOT IN USE.

PROVIDE INTAKE HOODS WITH MOTORIZED DAMPERS FOR OUTSIDE AIR WITH RESPECTIVE INTERLOCKING BETWEEN RTU THERMOSTATS AND ACTUATORS. (TYPICAL FOR ALL HVAC SYSTEMS). CONTROLS COMPANY MUST BE HIRED FOR CONTROL SEQUENCE AND INSTALLATION.

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

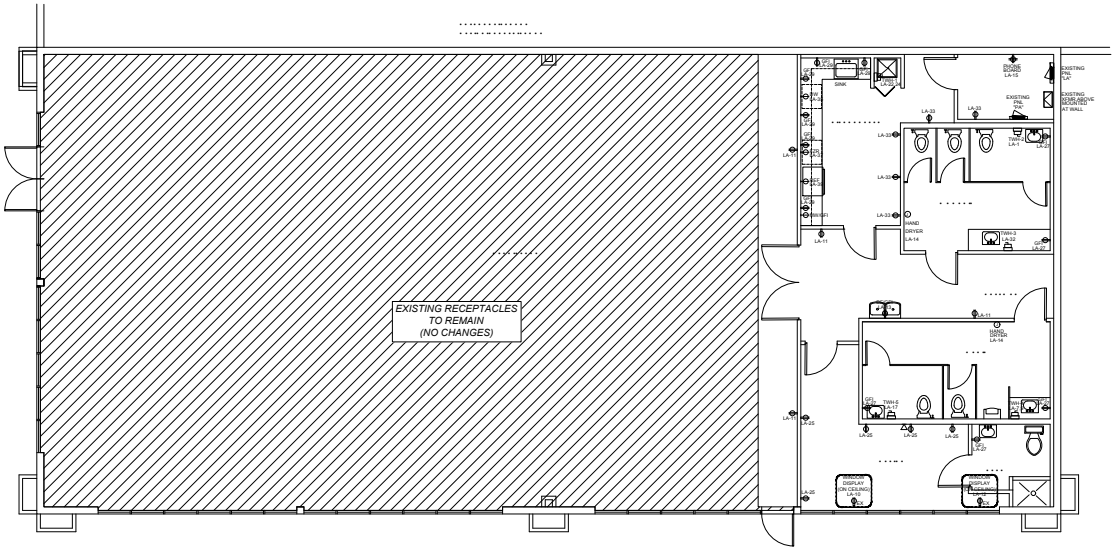
DRAWING TITLE:
MECHANICAL
DETAILS

DOB S-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 66918

DATE: 04.06.23
PROJECT NO.: 23-014
DRAWN BY:
CHECKED BY:
DRAWING NO.:
M-300
PAGE: 7 OF 14



ELECTRICAL POWER PLAN

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

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
J	JUNCTION BOX
SR	SINGLE RECEPTACLE
DR	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, 48" TO, AFF AT KITCHEN, BATHS AND DWS
	EXISTING RECEPTACLE TO REMAIN
R	EXISTING RECEPTACLE TO BE REMOVED
ER	EXISTING DUPLEX RECEPTACLE TO RELOCATED AS SHOWN. RECONNECT TO EXISTING CIRCUIT AS REQUIRE. NO COMPLICIANCE
	240/120 VOLT RECEPTACLE
	QUADRUPLEX RECEPTACLE
	FLOOR MTD. FLUSH QUAD. RECEPTACLE
	NEW SURFACE-MOUNTED PLUG MOLDING. PROVIDE SINGLE/FLEX OUTLET 1'-0" O.C.
	ELECTRICAL PANEL
	DISCONNECT SWITCH
	ELECTRIC METER
	TELEPHONE OUTLET
	TELEPHONE/COMPUTER OUTLET
	COMPUTER OUTLET
	FLOOR MTD. FLUSH TELEPHONE OUTLET
	TELEVISION OUTLET
SD	CEILING OR WALL MOUNTED SMOKE DETECTOR
	POWER POLE FOR WORKSTATION&PRINTER POWER
	DATE POLE FOR WORKSTATION&PRINTER DATA
EX	EXISTING TO REMAIN
REL	EXISTING TO BE RELOCATED
R	EXISTING TO BE REMOVED

ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F.
BELOW COUNTER= BC
COUNTER TOP LEVEL= C
GROUND FAULT INTERRUPTER= GFI/VERIFY PRIOR TO INSTALL= VH
PUSH BUTTON= PB
UNDER CABINET= UC
VAPOR PROOF= VP
WEATHER PROOF= WP

CONTRACTORS NOTES

1. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY AND RELATED COSTS INCLUDING FEES FOR ANY FIELD CHANGES OR DEVIATIONS FROM CONSTRUCTION DOCUMENTS WITHOUT PRIOR WRITTEN ORDER/VERBAL FOR FROM THE ARCHITECT OR ENGINEER OF RECORD.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID INSTALLATION.

A DISCONNECTING MEANS SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR QUALIFIED PERSONS FOR SERVICING OR MAINTAINING BALLAST OF ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE ENDED LAMPS OR BALLASTED FIXTURES THAT ARE ON THE SAME BRANCH CIRCUIT AS THE BRANCH CIRCUITS. THESE DISCONNECTS SHALL DISCONNECT ERMLA TWIN DUALY ALL CONDUCTORS, INCLUDING THE GROUNDED CONDUCTOR, AS PER NEC 410.93(C)

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 (7TH ED) & NEC 2017

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DANCE STUDIO

DRAWING TITLE:
ELECTRICAL
POWER
PLAN

DOB S-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 90312

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PROJECT NO.: 23-014
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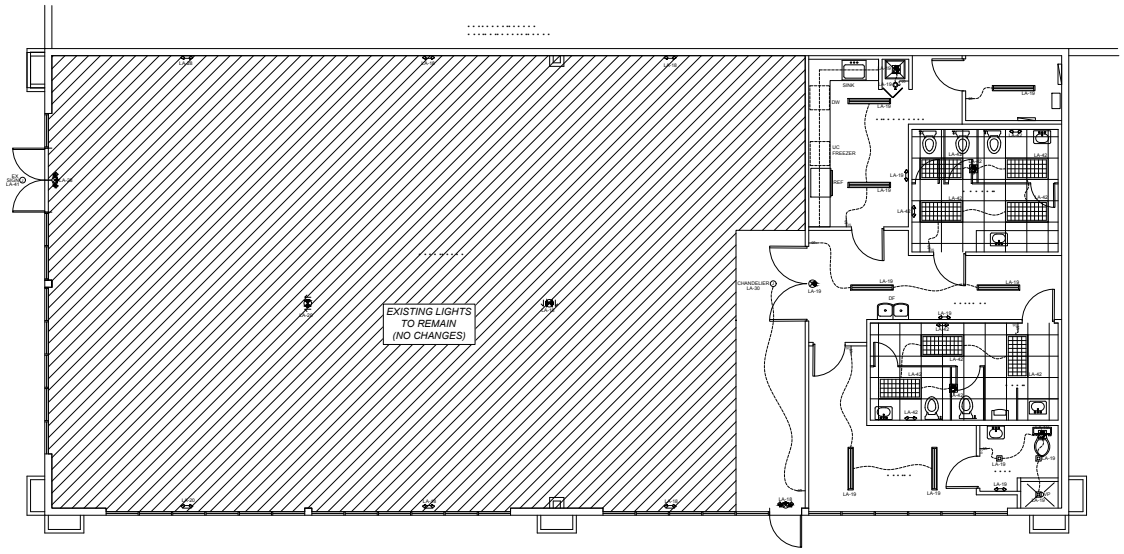

ELECTRICAL LIGHTING PLAN

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

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	2'X4' LED LIGHT FIXTURE (LITHONIA LED FIXTURE 2ALL4)
	2'X4' LED LIGHT FIXTURE WITH EMERGENCY BALL-AST (LITHONIA LED FIXTURE 2ALL4)
	HI-HAT - SUSPENDED LIGHT FIXTURE
	HI-HAT - (EMERGENCY 24 HOURS) SUSPENDED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE LED LIGHTING (PENDANT) - 50W MAX
	2'X2' LED LIGHT FIXTURE
	2'X2' LED LIGHT FIXTURE WITH EMERGENCY BALLAST
	FLUORESCENT LIGHT FIXTURE
	TROFFER LIGHT FIXTURE
	EMERGENCY BATTERY PACK
	EXIT SIGN
	WALL SWITCH (SINGLE, DOUBLE)
	SWITCH W/ DIMMER
	WALL SWITCH (OCCUPANCY SENSOR)
	JUNCTION BOX
	EXHAUST FAN
	SPEAKER

ABBREVIATIONS:
WEATHER PROOF= WP
VAPOR PROOF= VP
UNDER CABINET= UC

EXIT & EMERGENCY LIGHTING NOTES

1. ALL EMERGENCY & EXIT LIGHTS AHEAD OF SWITCH SHARE AREA CIRCUIT AS PER NEC 700.12
2. EMERGENCY FIXTURES WILL OPERATE FOR 90 MINUTES IN THE EVENT OF A POWER OUTAGE
3. ALL EXISTING EMERGENCY/EXIT LIGHTS TO COMPLY WITH NEC 700.12 F

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 (7TH ED) & NEC 2017

COMMERCIAL EGRESS ILLUMINATION REQUIRES A MINIMUM 1 FOOT CANDLE
COMMERCIAL LIGHTING TO COMPLY WITH FBC ENERGY CONSERVATION 405

LIGHTING FIXTURE SCHEDULE

SYMBOL	QTY	FIXTURE TYPE	MANUFACTURER	SPECIFICATION	WATT PER FIXTURE	TOTAL WATTS	LAMP	MOUNTING	NOTES
	7	LED 2X4 LIGHT	BY OWNER	BY OWNER	50	350	BY OWNER	BY OWNER	1,2,3,4
	3	HI-HAT	BY OWNER	BY OWNER	23	26	BY OWNER	WALL MOUNTED	1,2,3,4
CH	1	INCANDESCENT LIGHTING	BY OWNER	BY OWNER	50	50	BY OWNER	BY OWNER	1,2,3,4
	7	LED 4' LIGHT	BY OWNER	BY OWNER	50	350	BY OWNER	BY OWNER	1,2,3,4
	2	EXIT/EMERGENCY LIGHT W/ BATTERY BACKUP	DMF	RP790			LED	WALL OR CEILING	
	13	EMERGENCY LIGHT W/ BATTERY BACKUP	DMF	RP890			INCLUDED	WALL OR CEILING	
	3	EXIT LIGHT WITH BATTERY BACKUP	DMF	RP890			LED	WALL OR CEILING	
				TOTAL CONNECTED		776			

REFERENCE NOTES

1.) FURNISHED BY CONTRACTOR. WIRED ASSEMBLED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2.) FIXTURES ON DIMMER CONTROL.
3.) FURNISH WITH ALL NECESSARY LEADS, COVERS, CONNECTORS AND FITTING FOR A COMPLETE OPERATING SYSTEM.
4.) REFER TO CUT-SHEETS FOR MORE INFO.
5.) MOUNT TRANSFORMER INDOORS AND ABOVE CEILING SYSTEM.
6.) SELECTED AND INSTALLED BY CLIENT'S SOUND CONTRACTOR

THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE IS ALSO DESIGNATED TO MEET CERTAIN AESTHETIC CRITERIA.
ALTERNATIVE SELECTION MUST BE SUBMITTED FOR PRIOR APPROVAL TO THE ARCHITECT/CONSULTING ENGINEERS TEN DAYS PRIOR TO BID DATE FOR APPROVAL

EXIT SIGNS SHALL COMPLY WITH FBC 13-415.1ABCD.4"EXIT SIGNS SHALL NOT USE MORE THAN 7 WATTS OF TOTAL INPUT POWER PER PHASE IN NORMAL OPERATION."

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SUBMITTED: 03/17/2023 - 2:47 PM - JOB NUMBER: 23-014

ELECTRICAL NOTES

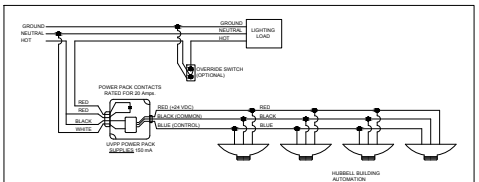
1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C. AND ALL OTHER APPLICABLE CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
4. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
5. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
6. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
7. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
8. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. OR LOCAL CODES.
9. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
11. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
12. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING.
13. 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 THERE BY.
14. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
16. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
17. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
18. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE AS REQUIRED BY N.E.C.
19. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
20. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
22. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
23. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPE WRITTEN DIRECTORIES.
24. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 18" A.F.F. UNLESS NOTED OTHERWISE, VERTICALLY MOUNTED.
25. ALL LIGHT SWITCHES TO BE AT 47" A.F.F.
26. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
27. RESIDENTIAL LOAD CENTER BREAKER PANELS - ALL CURRENT CARRYING BUSSES SHALL BE TIN PLATED. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
28. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
29. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
30. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACTOR SHALL FURNISH AND INSTALL.
31. CONTRACTOR SHALL CONFIRM WITH F.P.L ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
32. VOLTAGE DROP FOR ALL CONDUCTORS SHALL NOT EXCEED 2%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTOR(S) AS REQUIRED.
33. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS AND ALL CIRCUITS WITHIN 6' OF WHOLE CIRCUIT.
34. GAS PIPING SHALL BE BONDED
35. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH ELECTRICAL COMPANY PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
36. ALL OUTDOOR EQUIPMENT SHALL BE WEATHER PROOF.

THIS DESIGN COMPLIES WITH THE REQUIREMENTS OF ASHRAE 90.1 (2010) SECTION 8 AS ADOPTED BY THE SEVEN EDITION (2020) FLORIDA BUILDING CODE IN THE ENERGY CODE (FBC CE 450), INCLUDING THE FOLLOWING:
8.4.2 AUTOMATIC RECEPTACLE CONTROL. AT LEAST 50% OF ALL 125 VOLT 15- AND 20-AMPERE RECEPTACLES, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS, INSTALLED IN THE FOLLOWING SPACE TYPES:
- PRIVATE OFFICES
- OPEN OFFICES
- CONFERENCE ROOMS

SHALL BE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE THAT SHALL FUNCTION ON:
- A SCHEDULED BASIS USING A TIME-OF-DAY OPERATED CONTROL DEVICE THAT TURNS RECEPTACLES OFF AT SPECIFIC PROGRAMMED TIMES-AN INDEPENDENT PROGRAM SCHEDULE SHALL BE PROVIDED FOR AREAS OF NO MORE THAN 25,000 SQ. FT. BUT NOT MORE THAN ONE FLOOR; OR
- AN OCCUPANT SENSOR THAT SHALL TURN RECEPTACLES OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE AREA; OR
- A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCUPIED.

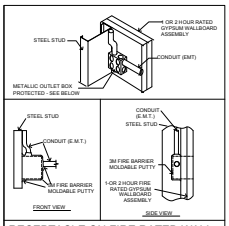
EXCEPTIONS: RECEPTACLES FOR THE FOLLOWING SHALL NOT REQUIRE AN AUTOMATIC CONTROL DEVICE:
- RECEPTACLES SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING 24 HOUR OPERATION.
- SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANT(S).

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 (7TH ED) & NEC 2017



CEILING OCCUPANCY SENSOR WIRING DIAGRAM

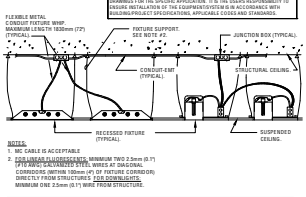
SCALE: N.T.S.



RECEPTACLE ON FIRE RATED WALL

NTS

NOTE:
THE INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



NOTES:
1. MC CABLE IS ACCEPTABLE
2. FOR LINEAR FLUORESCENTS: MINIMUM TWO 2.5mm (8.7' LFT) WIRES GALVANIZED STEEL WIRES AT DIAGONAL CORNERS (WITHIN 100mm (4") OF FIXTURE CORNER) DIRECTLY FROM STRUCTURE. FOR DOWNLIGHTS: MINIMUM ONE 2.5mm (8.7') WIRE FROM STRUCTURE.

FRAMING MEMBERS OF SUSPENDED CEILING SYSTEMS USED TO SUPPORT LUMINARIES SHALL BE SECURELY FASTENED TO EACH OTHER AND SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE AT APPROPRIATE INTERVALS. LUMINARIES SHALL BE SECURELY FASTENED TO THE CEILING FRAMING MEMBER BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, OR RIVETS. LISTED CLIPS INDENTIFIED FOR USE WITH TYPE OF CEILING FRAMING MEMBER(S) AND LUMINAIRE(S) SHALL ALSO BE PERMITTED.

TYPICAL LUMINARIE SUPPORT DETAIL

SCALE: N.T.S.

PANEL SCHEDULE "LA"(EXISTING)

PANEL:	"LA"					BUS:	150 AMP M.L.O.							VOLTAGE:	208/120 V. 3 Ø. 4 W.				
LOC:	SQUARE D					POLES:	42												
MOUNTING:	SURFACE					AIC SYMM:	22K AIC												
DESCRIPTION	WIRE	GND.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION					
SPACE					1				2					SPACE					
SPACE					3				4					SPACE					
SPACE					5				6					SPACE					
TANK	#6	#6	2"*	40	7	1.2	—	—	8	20	1/2"	#12	#12	SIGNAGE RECEPTACLES					
OPEN SPACE HALLWAY RECEPTACLES	#12	#12	1/2"	20	9	—	0.8	0.8	10	20	1/2"	#12	#12	SIGNAGE RECEPTACLES					
DRINKING FOUNTAIN	#12	#12	1/2"	20	11	0.6	—	—	12	20	1/2"	#12	#12	HAND DRYERS					
PHONE BOARD	#12	#12	1/2"	20	13	—	0.6	0.6	14	20	1/2"	#12	#12	TRACK LIGHTS					
TANK	#12	#12	1/2"	20	15	—	—	0.6	16	20	1/2"	#12	#12	TRACK LIGHTS					
EXTERIOR LIGHTS (TIME CLOCK CONTROL)	#12	#12	1/2"	20	17	0.6	—	—	18	20	1/2"	#12	#12	TRACK LIGHTS					
SPACE					19				20	20	1/2"	#12	#12	TRACK LIGHTS					
SPACE					21				22	30	3/4"	#10	#10	TRACK					
SPACE					23				24					SPACE					
ATTENDENTS RECEPTACLES	#12	#12	1/2"	20	25	—	—	1.1	26	20	1/2"	#12	#12	TRACK LIGHTS					
BATHROOM RECEPTACLES	#12	#12	1/2"	20	27	—	1.1	—	28	20	1/2"	#12	#12	TRACK LIGHTS					
ATTENDENTS RECEPTACLES	#12	#12	1/2"	20	29	—	—	1.1	30	20	1/2"	#12	#12	CHANDELIER					
SPACE					31				32					SPACE					
DISHWASHER (GFI ON BREAKER)	#12	#12	1/2"	20	33	1.0	—	—	34					SPACE					
DISHWASHER (GFI ON BREAKER)	#12	#12	1/2"	20	35	—	1.0	—	36					SPACE					
FREEZER (GFI ON BREAKER)	#12	#12	1/2"	20	37	—	—	0.8	38					SPACE					
REFRIGERATOR (GFI ON BREAKER)	#12	#12	1/2"	20	39	—	0.8	—	40					SPACE					
FRONT SIGN	#12	#12	1/2"	20	41	0.8	—	—	42	20	1/2"	#12	#12	RESTROOM LIGHTING					
				SUBTOTAL:		17.2	10.6	14.3											
				TOTAL:			42.0 KW		TOTAL LOAD 42.0 KW * 125.1 AMPS										

(*) ALL LIGHTING LOAD SHOWN @ 125%.
CONTRACTOR MUST VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ORDER OR INSTALL.

NOTE:
ALL WIRE AND CONDUIT SIZES ARE ESTIMATED

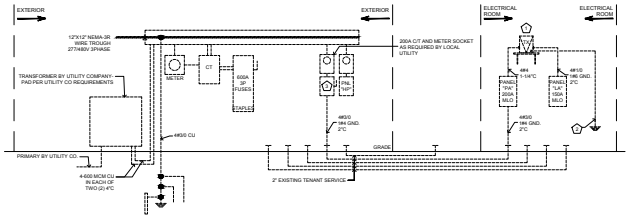
SUB-PANEL SCHEDULE "PA"(EXISTING)

PANEL:	"PA"					BUS:	200 AMP M.L.O.							VOLTAGE:	208/120 V. 3 Ø. 4 W.				
LOC:	SQUARE D					POLES:	42												
MOUNTING:	SURFACE					AIC SYMM:	22K AIC												
DESCRIPTION	WIRE	GND.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION					
SPACE					1				2					SPACE					
SPACE					3				4					SPACE					
SPACE					5				6					SPACE					
SPACE					7				8					SPACE					
SPACE					9				10					SPACE					
SPACE					11				12					SPACE					
SPACE					13				14					SPACE					
SPACE					15				16					SPACE					
SPACE					17				18					SPACE					
SPACE					19				20					SPACE					
SPACE					21				22					SPACE					
SPACE					23				24					SPACE					
SPACE					25				26					SPACE					
SPACE					27				28					SPACE					
SPACE					29				30					SPACE					
SPACE					31				32					SPACE					
SPACE					33				34					SPACE					
SPACE					35				36					SPACE					
SPACE					37				38					SPACE					
SPACE					39				40					SPACE					
SPACE					41				42					SPACE					
				SUBTOTAL:			28.5	27.7	28.7										
				TOTAL:			82.9 KW		TOTAL LOAD 82.9 KW * 69.46 AMPS										

(*) ALL LIGHTING LOAD SHOWN @ 125%.
CONTRACTOR MUST VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ORDER OR INSTALL.

NOTE:
ALL WIRE AND CONDUIT SIZES ARE ESTIMATED

CONTRACTOR SHALL VERIFY THE EXISTING CIRCUIT



ELECTRICAL RISER

NTS

NOTES:
1. (ON PLATFORM) SEE FLOOR PLAN
2. GROUND TO BLDG STEEL W/#6 BARE CU WIRE
3. 3P-200A, 600V, DISC. SW, W/200A FUSES.

LEGEND
- NEW (N)
- EXISTING (E)
- FUTURE (F)

ELECTRICAL SERVICE NOTES:
PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL:
A). VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO CONSTRUCTION
B). NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED PRIOR TO START OF CONSTRUCTION.
C. NEW ELECTRICAL SERVICE EQUIPMENT SHALL MATCH EXISTING A.I.C. RATING

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 (7TH ED) & NEC 2017

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KEY PLAN:

SCALE: N.T.S.

NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

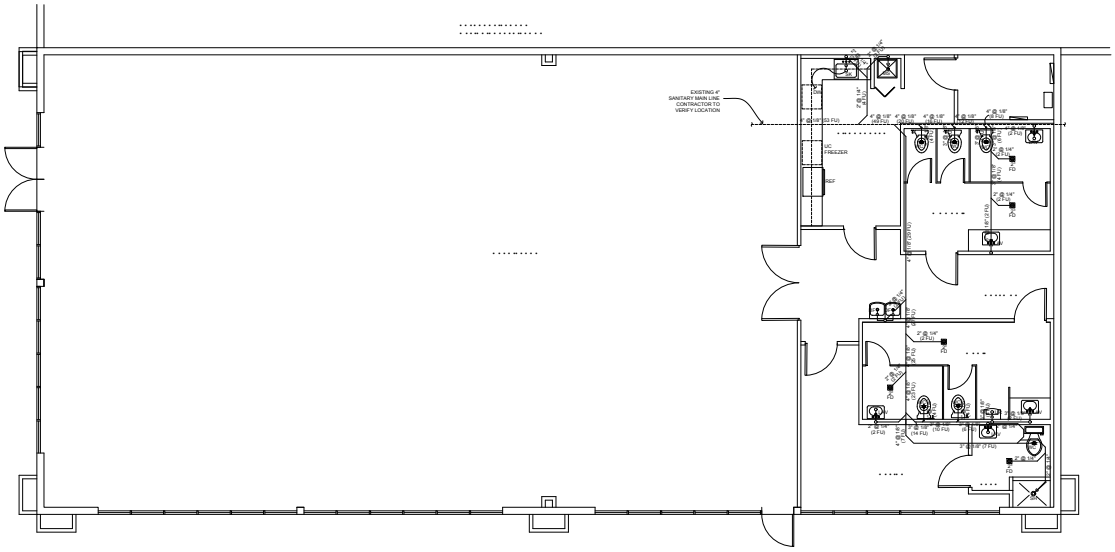
DRAWING TITLE:
ELECTRICAL
PANEL SCHEDULES
AND RISER DIAGRAM

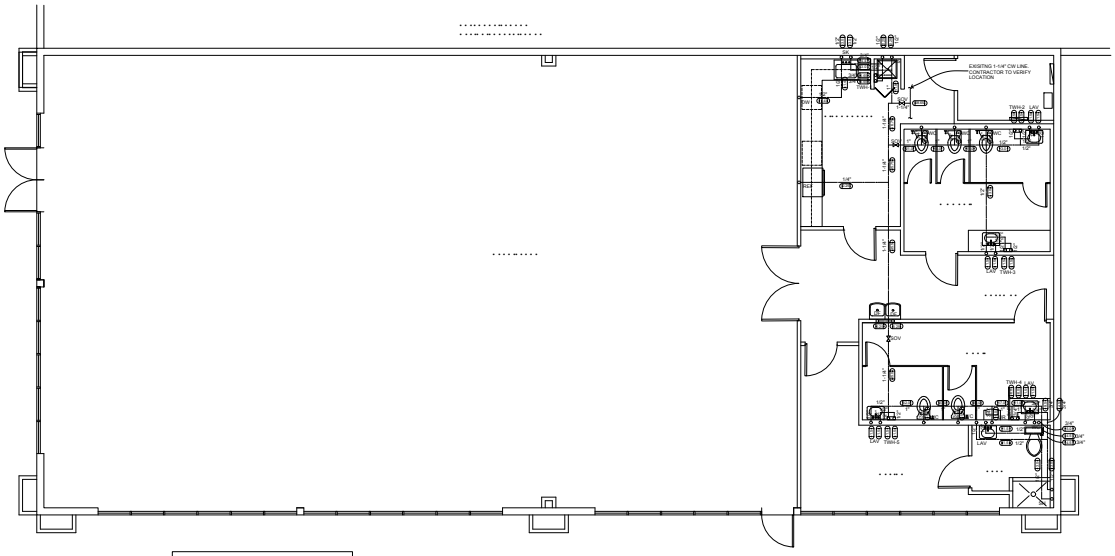
DOB S-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 90312

DATE: 04.06.23
PROJECT NO.: 23-014
DRAWN BY:
CHECKED BY:
DRAWING NO.: E-300


EXISTING 4" SANITARY MAIN LINE CONTRACTOR TO VERIFY LOCATION
4" @ 1/8" (50 FU)
4" @ 1/8" (27 FU)
4" @ 1/8" (18 FU)
4" @ 1/8" (9 FU)
4" @ 1/8" (6 FU)
4" @ 1/8" (3


EXISTING 1-1/4" CW LINE. CONTRACTOR TO VERIFY LOCATION
TWA-2
LAV
TWA-3
TWA-4
TWA-5
TWA-6
TWA-7
TWA-8
TWA-9
TWA-10
TWA-11
TWA-12
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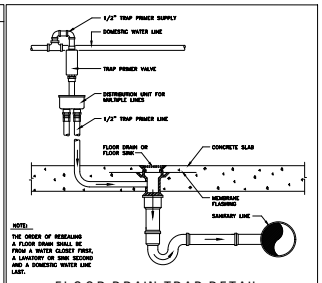
TWA-37
TWA-38
TWA-39
TWA-40
TWA-41
TWA-42

PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THIS SHALL ELIMINATE EXTRAS.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACK FILLS AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE INCLUDED IN THIS CONTRACT.
5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN ALL CERTIFICATES OF INSPECTION AND COMPLIANCE FOR ALL ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
8. PLUMBING PIPE SHALL BE INSTALLED AT MAXIMUM INTERVALS TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
9. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
10. ALL WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. ALL UNDERGROUND WATER PIPING SHALL BE TYPE "L" COPPER ENCASED IN BLACK POLY PIPE. CPVC PIPE CAN BE USED.
11. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON OR PVC. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUM SPACES UNLESS OTHERWISE INDICATED.
12. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
13. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
14. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS, EXCEPT AT WATER HEATER AS PER CODE.
15. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR TAPE.
16. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBERS WORK.
17. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY IS ISSUED. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HRS. OF NOTIFICATION AND SHALL INCLUDE ALL REMOVAL AND REPAIR OF OTHER WORK OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
18. STUDOR MINIMAX AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL CODES. INSTALLATION SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS.
19. PROVIDE CLEANOUTS WITH STAINLESS STEEL COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL IN WALL. WALL CLEAN OUTS.
20. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
21. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELEVATOR SHAFTS OR ELEVATOR MACHINE ROOMS.
22. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
23. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE IN OF A/C TO BE MADE ABOVE CEILING WITH 1/2" THICK ARMAFLEX INSULATION. MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
24. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES WITH 1/2" CONNECTIONS.
25. NO JOINTS UNDERGROUND FOR COPPER.
26. PLUMBING FIXTURES SHALL COMPLY WITH F.B.C. 604.
27. WATER HAMMER ARRESTORS AS PER F.B.C. P-604.5
28. PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR TUBS AND SHOWERS.



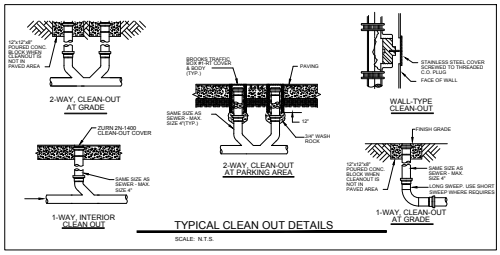
NOTE:
THE ORDER OF RESEALING A FLOOR DRAIN SHALL BE FROM A WATER CLOSET FIRST, A LAVATORY OR SINK SECOND AND A DOMESTIC WATER LINE LAST.

FLOOR DRAIN TRAP DETAIL
NTS

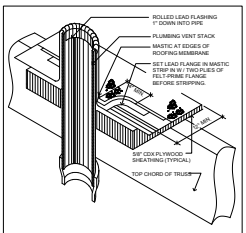
FIXTURE CONNECTION SCHEDULE

NO	DESCRIPTION	DRAIN MIN.	WATER COLD	WATER HOT	FIX PRESSURE	REMARKS (*) FBC Residential-2017 (6TH EDITIABLE FS802.2 & Miami Dade Article III, sec. 08-01
WC	WATER CLOSET	3"	3/8"		20 PSI	FLUSH TANK, 1.28 GPF MAX
BID	BIDET	2"	3/8"	3/8"	20 PSI	AS SELECTED BY OWNER
LAV	LAVATORY	2"	3/8"	3/8"	8 PSI	MAX FLOW RATE: 1.5 GPM AT 60 PSI
TUB	BATH TUB	2"	3/8"	3/8"	20 PSI	PROVIDE VALVES (HEAD AND WRENCH) TO ALL FIXTURES WITH 1/2" CONNECTIONS
SH	SHOWER	2"	3/8"	3/8"	20 PSI	PROVIDE VALVES (HEAD AND WRENCH) TO ALL FIXTURES WITH 1/2" CONNECTIONS. MAX FLOW RATE: 1.5 GPM AT 60 PSI
DW	DISH WASHER		3/8"	3/8"	20 PSI	PROVIDE AIR GAP/FITTING AS REQUIRED BY CODE. MAX FLOW RATE: 1.6 GPM AT 60 PSI (AS LISTED ON CURRENT ENERGY STAR LISTING)
SK	KITCHEN SINK	2"	3/8"	3/8"	8 PSI	MAX FLOW RATE: 1.5 GPM AT 60 PSI
LT	LAUNDRY TRAY (SINK)	2"	3/8"	3/8"	8 PSI	MAX FLOW RATE: 1.5 GPM AT 60 PSI
REF	REFRIGERATOR		3/8"	3/8"		AS SELECTED BY OWNER
W	CLOTHES WASHER	2"	3/8"	3/8"	8 PSI	PROVIDE REVERSE WASH, CAP VARIES (1000 OR EQUAL WATER EFFICIENCY ENERGY STAR CERTIFIED)

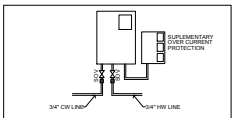
CONTRACTOR SHALL VERIFY THAT ALL FIXTURES COMPLY WITH RLF STANDARDS CHAPTER 4 FBC PLUMBING PARTICULARLY SEC. 406-421)



TYPICAL CLEAN OUT DETAILS
SCALE: N.T.S.



ROOF VENT DETAIL
SCALE: N.T.S.



ELECTRIC WATER HEATER DETAIL
N.T.S.

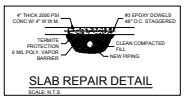
TANKLESS WATER HEATER SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL #	KW	GPM	DIMENSION W x H x D	WEIGHT
TWH-1	SEE PLAN	RHEEM	RTGX-04	6.8	4.8	10 7/8"x 5 7/8"x 2 3/4"	4.5 LBS
TWH-2,3,4,5	SEE PLAN	RHEEM	RTGX-04	6.8	4.8	10 7/8"x 5 7/8"x 2 3/4"	4.5 LBS
TWH-6	SEE PLAN	RHEEM	RTGX-08	7.2	6.8	8 1/4"x 12 5/8"x 3 3/4"	7.0 LBS

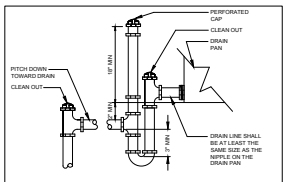
ALL PLUMBING WORK TO COMPLY WITH FBC 2020 (7TH ED)

CONTRACTOR TO VERIFY EXISTENCE OF EXISTING ITEMS AND CONTACT ENGINEER SHOULD ANY DISCREPANCIES OCCUR

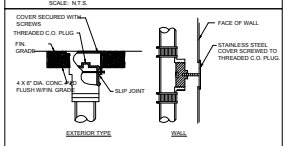
CONTRACTOR SHALL VERIFY ALL PLUMBING REQUIREMENTS WITH OWNER AND EQUIPMENT MANUFACTURER AND NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR.



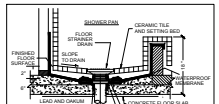
SLAB REPAIR DETAIL
SCALE: N.T.S.



TYPICAL CONDENSATE DRAIN PIPE
SCALE: N.T.S.



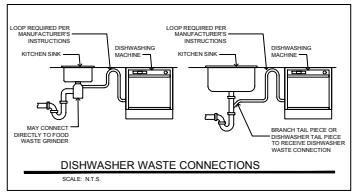
TYPICAL CLEAN OUT DETAIL
SCALE: N.T.S.



SHOWER PAN DETAIL

PLUMBING FIXTURES REQUIREMENTS

NUMBER OF OCCUPANTS	AS PER FBCP TABLE 403.1	
TOTAL = (+50)	FIXTURE REQUIRED PROVIDED	
	MALE WC (1 per 40) 3.5 3	
	FEMALE WC (1 per 40) 3.5 3	
	PRIVATE BATHROOM — 1	
	LAVATORIES (1 per 75) 4 6	
	DRINKING FOUNTAIN 1 1	
	SERVICE SINK 1 1	



DISHWASHER WASTE CONNECTIONS
SCALE: N.T.S.

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KEY PLAN:

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NO.	SUBMISSION / REVISION	DATE

CLIENT:

PROJECT ADDRESS:
1550 SW 8th Street
Boynton Beach, FL

PROJECT TITLE:
INTERIOR REMODELING
DANCE STUDIO

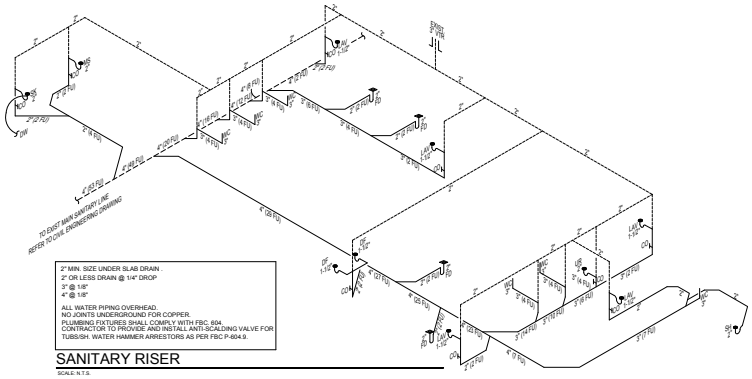
DRAWING TITLE:
PLUMBING WATER AND SANITARY DRAIN DETAILS

DOB S-SCAN JOB STICKER:

DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 50312

DATE: 04.06.23
PROJECT NO.: 23-014
DRAWN BY:
CHECKED BY:
DRAWING NO.: P-300



2" MIN. SIZE UNDER SLAB DRAIN .
2" OR LESS DRAIN @ 1/4" DROP
3" @ 1/8"
4" @ 1/8"

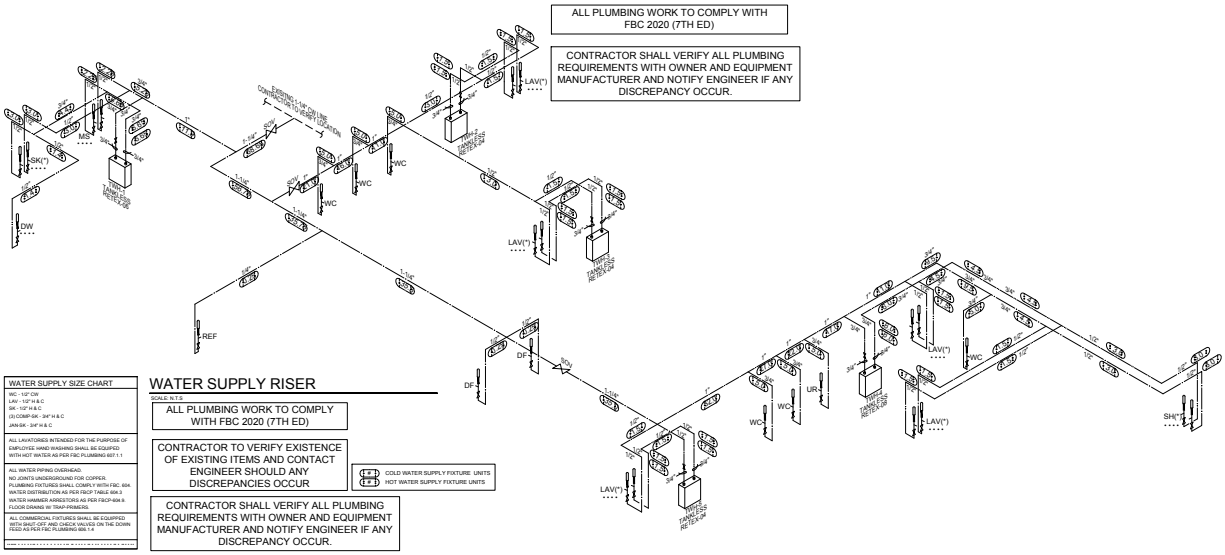
ALL WATER PIPING OVERHEAD.
NO JOINTS UNDERGROUND FOR COPPER.
PLUMBING FIXTURES SHALL COMPLY WITH FBC. 604.
CONTRACTOR TO PROVIDE AND INSTALL ANTI-SCALDING VALVE FOR TUBS/SH. WATER HAMMER ARRESTORS AS PER FBC P-604.9.

SANITARY RISER

SCALE: N.T.S.

ALL PLUMBING WORK TO COMPLY WITH FBC 2020 (7TH ED)

CONTRACTOR SHALL VERIFY ALL PLUMBING REQUIREMENTS WITH OWNER AND EQUIPMENT MANUFACTURER AND NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR.



WATER SUPPLY SIZE CHART
WC - 1/2" OW LAV - 1/2" H & C SK - 1/2" H & C (3) COMP-SK - 3/4" H & C JAN-SK - 3/4" H & C
ALL LAVATORIES INTENDED FOR THE PURPOSE OF EMPLOYEE HAND WASHING SHALL BE EQUIPED WITH HOT WATER AS PER FBC PLUMBING 607.1.1
ALL WATER PIPING OVERHEAD. NO JOINTS UNDERGROUND FOR COPPER. PLUMBING FIXTURES SHALL COMPLY WITH FBC. 604. WATER DISTRIBUTION AS PER FBCP TABLE 604.3 WATER HAMMER ARRESTORS AS PER FBCP-604.9. FLOOR DRAINS 96" TRAP-PRIMERS.
ALL COMMERCIAL FIXTURES SHALL BE EQUIPPED WITH SHUT-OFF AND CHECK VALVES ON THE DOWN FEED AS PER FBC PLUMBING 606.1.4

WATER SUPPLY RISER

SCALE: N.T.S

ALL PLUMBING WORK TO COMPLY WITH FBC 2020 (7TH ED)

CONTRACTOR TO VERIFY EXISTENCE OF EXISTING ITEMS AND CONTACT ENGINEER SHOULD ANY DISCREPANCIES OCCUR

CONTRACTOR SHALL VERIFY ALL PLUMBING REQUIREMENTS WITH OWNER AND EQUIPMENT MANUFACTURER AND NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR.

COLD WATER SUPPLY FIXTURE UNITS
HOT WATER SUPPLY FIXTURE UNITS

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ISOMETRICS RISER

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DOB STAMP & SIGNATURE:

CHRISTOPHER KREPCIO, P.E.
Florida License No. 50312

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DRAWN BY:	
CHECKED BY:	
DRAWING NO.:	P-400
PAGE: 14	OF 14

J:\CTDRIVE\MATD1\FILES\PROJECTS\2023\23-014 DANCE STUDIO\DWG\23-014 DANCE STUDIO.DWG | PM Date: Apr 11, 2023 - 5:22 PM