MECHAN	CAL SYMBOLS LIST					
AC-1 (TXF-1)	EQUIPMENT SYMBOL					
	AIR DEVICES					
	CEILING DIFFUSER SUPPLY					
	CEILING DIFFUSER RETURN					
DU	CT ACCESSORIES					
	BACKDRAFT DAMPER					
	VOLUME DAMPER W/ ACCESS DOOR					
	FIRE DAMPER W/ ACCESS DOOR					
	FIRE AND SMOKE DAMPER W/ ACCESS DOOR					
CONTE	ROLS AND SENSORS					
T	THERMOSTAT					
S	DUCT SMOKE DETECTOR					
H	HUMIDISTAT					
	DUCTWORK					
======	AIR DUCT W/ 1.5" ACOUSTICAL LINING					
	FLEXIBLE DUCT					
	FLEXIBLE CONNECTION					
24X12	RECTANGULAR DUCT (WIDTH X DEPTH)					
	SUPPLY AIR RECTANGULAR DUCT CROSS SECTION					
	RETURN AIR RECTANGULAR DUCT CROSS SECTION					
Ø12	ROUND DUCT (DIAMETER)					
S	ROUND DUCT CROSS SECTION					

# ABBREVIATIONS

ADL	DREVIATIONS					
AL	ACOUSTIC LINING					
BD	BACKDRAFT DAMPER					
CDS	CEILING DIFFUSER SUPPLY					
CDR	CEILING DIFFUSER RETURN					
CFM	CUBIC FEET OF AIR PER MINUTE					
CD	CONDENSATE DRAIN PIPE					
EG	EXHAUST GRILLE					
FC	FLEXIBLE CONNECTION					
	INTEGRATED ENERGY					
IEER	EFFICIENCY RATIO					
EER	ENERGY EFFICIENCY RATIO					
	SEASONAL ENERGY					
SEER	EFFICIENCY RATIO					
RTU	ROOF TOP UNIT					
DN	DOWN					
EF	EXHAUST FAN					
VD	VOLUME DAMPER					
(N)	NEW					
FD	FIRE DAMPER					
FSD	FIRE AND SMOKE DAMPER					
COP	COEFFICIENT OF PERFORMANCE					

# MECHANICAL DRAWING LIST

M1.0	MECHANICAL GENERAL NOTES & SYMBOLS
M1.1	MECHANICAL NOTES & SPECIFICATIONS
M2.0	MECHANICAL FLOOR PLAN
M2.1	MECHANICAL ROOF PLAN
M3.0	MECHANICAL DETAILS (1 OF 2)
M3.1	MECHANICAL DETAILS (2 OF 2)
M4.0	MECHANICAL SCHEDULES

# FLORIDA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2020 FBC-BUILDING. 7TH EDITION AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- INSPECTIONS AND TESTS.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE 2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR FAILURE OF ANY DUCTWORK SYSTEM OR EQUIPMENT TO RELATING TO ANY PORTION OF THIS WORK ARE HEREBY FUNCTION PROPERLY UPON COMPLETION OF HIS WORK 1. THE CONTRACTOR SHALL ENGAGE THE THE SERVICES OF A INCORPORATED INTO AND MADE A PART OF THESE UPON SAID SYSTEM OR EQUIPMENT. PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR 23. SUBMIT SHOP DRAWING OF ALL WORK WHICH MUST BE TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS APPROVED BY THE ARCHITECT AND ENGINEER BEFORE 2. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE WORK COMMENCES. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR. AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND 24. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE 3. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED OTHERWISE NOTED AND SHALL BE IN ACCORDANCE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS. AREAS, THE CONTRACTOR SHALL APPLY TO OWNER FOR WITH BUILDING STANDARDS.
- PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS 3. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES 25. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2020 DESIGNATED BY OWNER. THERE WILL BE NO ADDITIONAL FBC-MECHANICAL, 7TH EDITION: COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR A. VENTILATION SYSTEM BALANCING MC 403.3.1.5. ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL. B. SMOKE CONTROL SYSTEMS - MC 513.3
- 4. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. 4. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OR STANDARD OCCUPANTS.
- A. DUCT CONSTRUCTION AND INSTALLATION- 2020 FBC-MECHANICAL 7TH EDITION, 603
- B. AIR INTAKES, EXHAUSTS AND RELIEF 2020 FBC-MECHANICAL 7TH EDITION 401.5 C. STANDARDS OF HEATING - 2020 FBC- MECHANICAL 7TH
- EDITION 309.1 D. SMOKE DETECTORS AND FIRE AND SMOKE DAMPERS -2020 FBC- MECHANICAL 7TH EDITION 606 & 607
- RESPECTIVELY 6. CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO 27. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE AIR DISTRIBUTION SYSTEMS - 2020 FBC- MECHANICAL POSITION UNIT IN LOCATION SHOWN ON THE PLANS. WHERE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED 7TH EDITION 513 NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM THE VARIOUS SYSTEMS, DEMONSTRATED THAT MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND THROUGH RESTRICTIVE SPACES. COORDINATE WITH BUILDING SPECIFICATIONS AND HAS FURNISHED ALL OWNER APPROPRIATE TIMES OF DAY SUCH EQUIPMENT MAY BE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL. MOVED THROUGH ALL AREAS.
- 5. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 6. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2020 FBC-MECHANICAL, 7TH EDITION CHAPTER 4.
- 7. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2020 FBC-MECHANICAL, 7TH EDITION 403.3
- 8. HVAC DUCTS AND PLENUMS INSULATED IN ACCORDANCE WITH REQUIREMENT(S) SHALL APPLY. 2020 FBC- ENERGY CONSERVATION, 7TH EDITION SECTION 9. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS 403.2.9.1.1 AND CONSTRUCTED IN ACCORDANCE WITH SECTION EXISTING WORK TO INSURE MINIMUM INTERFERENCE WIT H DEFINITIONS: 403.2.9, VERIFICATION MAY NEED TO OCCUR DURING REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTE FOUNDATION INSPECTION. SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT COMPLETE AND READY FOR SAFE AND REGULAR OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY 9. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED OPERATION THE PARTICULAR WORK REFERRED TO DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS UNLESS SPECIFICALLY OTHERWISE NOTED. TIME. SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED
- AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 10. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- 11. SMOKE DETECTOR SHALL MEET UL268A.



# GENERAL NOTES

1. CONTRACTOR SHALL SURVEY THE AREA OF THIS WORK BEFORE SUBMITTING A BID AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS.

- 5. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- 7. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
- CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL 8. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS 29. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS, DETERMINED BY ARCHITECT.
  - 10. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. 3) INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
  - 11. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS 1. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
  - 12. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE).
  - 13. WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THIS CONTRACTOR SHALL BE RESPONSIBLE TO SEAL SAME TO MAINTAIN THE RATED INTEGRITY.
  - 14. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
  - 15. ACCESS DOORS ARE REQUIRED FOR ALL BUILDING SERVICE VALVES THAT RUN THROUGH THE SPACE, AND ACCESS DOOR SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH THE ARCHITECT.
  - 16. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS. AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
  - 17. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
  - 18. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
  - 19. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
  - 20. ALL EQUIPMENT SHALL BE PROVIDED WITH ONE YEAR WARRANTY PARTS AND LABOR AND FIVE YEARS ON COMPRESSORS. WARRANTY PERIOD BEGINS UPON PROJECT ACCEPTANCE

- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST, OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.
- EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- IN ACCORDANCE WITH BUILDING 26 INSURANCE: REQUIREMENTS THE CONTRACTOR SHALL INCLUDE HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- 28. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- THE SPECIFICATIONS OR ANY OTHER CONSTRUCTION DOCUMENT, THE ONE WITH THE MOST STRINGENT
- "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

# SCOPE OF WORK

### SCOPE OF WORK

- MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLAN(S) DESIGN, DETAIL DRAWINGS, NOTES, RFI'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
- 2. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- 3. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

# **GENERAL:**

- ARRANGEMENT ONLY.

- SPECIFICATION.
- STRUCTURE.

AS WALL.

- INVOLVED.

### GENERAL HVAC NOTES

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL

3. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE CONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, HOSE DECISION SHALL BE FINAL.

COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL. STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.

ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ELECTRICAL DIVISION OF THE

10. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING

11. LOCATE ALL TEMPERATURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

12. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO THE FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.

13. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN THE DETAILS FOR DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

14. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. ACCESS PANELS SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.)

15. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM A METAL DECK.

16. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.

17. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

18. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES

19. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.

20. ALL CONDENSATE DRAIN LINES FROM EACH ROOF TOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO THE NEAREST DRAIN OR GUTTER OR DOWN SPOUT PROVIDED THAT DOWNSPOUT DOES NOT DISCHARGE ONTO PAVEMENT. SEE THE DETAILS SHOWN IN THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR THE DEPTH OF THE AIR CONDITIONING CONDENSATE TRAP.

21. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

22. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.

23. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.

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KEY PLAN:
SEAL: REVISION SCHEDULE NG: DATE: DESCRIPTION: 0 03/27/2023 PERMIT SET
01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMMENTS         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT
RMA PROJECT NO: 21.128.10 MECHANICAL GENERAL NOTES & SYMBOL
M1.0

# SPECIFICATIONS

SECTION 0001 - NOTICE TO BIDDERS

1.1 BIDDERS REPRESENTATIONS

- A. THE BIDDER BY MAKING A BID REPRESENTS THAT: THE BIDDER HAS READ AND UNDERSTANDS THE BIDDING DOCUMENTS, TO THE EXTENT THAT SUCH DOCUMENTATION RELATES TO THE WORK FOR WHICH THE BID IS SUBMITTED AND FOR OTHER PORTIONS OF THE PROJECT. IF ANY, BEING BID CONCURRENTLY OR PRESENTLY UNDER CONSTRUCTION.
- B. THE BID IS MADE IN COMPLIANCE WITH THE BIDDING 1.2 FIELD QUALITY CONTROL DOCUMENTS.
- C. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS FOR THE BIDDER TO SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR.
- D. SHOULD CONFLICTS OR DISCREPANCIES OCCUR WITHIN THE BIDDING DOCUMENTS, THE ITEM OR ITEMS IN DISPUTE THAT REPRESENT THE GREATER COST SHALL PREVAIL IN THE FINAL BID.
- E. THE BID IS BASED UPON THE MATERIALS, EQUIPMENT AND SYSTEMS REQUIRED BY THE BIDDING DOCUMENTS WITHOUT EXCEPTION.

1.2 EXISTING CONDITIONS AND COORDINATION

- A. THE BIDDER HAS VISITED THE SITE, BECOME FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS CORRELATED THE BIDDER'S PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE PROPOSED BIDDING DOCUMENTS.
- B. THE BIDDER SHALL PROPOSE COORDINATION OF WORK SUCH THAT CONFLICTS WITH OTHER TRADES AND SPACE ALLOCATIONS ARE AVOIDED.

1.3 RESPONSIBILITIES

- A. THE BIDDER UNDERSTANDS THAT ANY CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE TIMELY COMPLETION AND ACCEPTANCE OF THEIR WORK AND THAT ANY ITEMS DAMAGED, LOST OR STOLEN DURING TIME OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- B. THE BIDDER UNDERSTANDS THAT ANY PROPOSED WORK IN OCCUPIED TENANT SPACES SHALL BE PERFORMED DURING TIMES OF NON-TENANT OCCUPANCY OR AS SCHEDULED OR DIRECTED BY THE BUILDING MANAGER.
- C. THE BIDDER UNDERSTANDS THAT ANY PROPOSED 1.5 PRODUCTS SHUT-DOWN OF EXISTING SYSTEMS DURING CONSTRUCTION SHALL BE PRE-ARRANGED WITH THE BUILDING MANAGER AND THAT SUCH SHUT-DOWNS ARE TO BE KEPT TO A MINIMUM.

END OF SECTION 0001

SECTION 0101 - QUALITY OF WORK

1.1 WORKMANSHIP

- A. ALL WORK SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- B. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT OR BUILDING MANAGER AT NO ADDITIONAL COST TO THE OWNER.
- C. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM THE SITE, ALL TOOLS, DEMOLISHED END OF SECTION 230713 APPLIANCES AND ANY SURPLUS MATERIAL.
- 1.2 CODE COMPLIANCE
- A. ALL WORK SHALL MEET ALL STATE AND LOCAL CODES HAVING JURISDICTION.

END OF SECTION 0101

SECTION 0102 - REQUIRED DOCUMENTS

1.1 SHOP DRAWINGS

A. A SET OF PRINTS FOR ANY MECHANICAL WORK INCLUDING BUT NOT LIMITED TO, DUCTWORK AND PIPING LAYOUT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO CONSTRUCTION OR PURCHASE OF MATERIALS.

1.2 SUBMITTALS

A. EQUIPMENT SUBMITTALS OF ALL PROPOSED MECHANICAL AND ANCILLARY EQUIPMENT INCLUDING ALL ACCESSORIES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ALL PERTINENT MODELS, SIZES, ACCESSORIES AND CHOICES SHALL BE CLEARLY CHECKED, PRINTED OR OTHERWISE INDICATED ON THE SUBMITTALS.

1.3 RECORD DRAWINGS

A. UPON COMPLETION OF THE WORK, A RECORD DRAWING SHALL BE SUBMITTED TO THE OWNER DEPICTING ALL SUBSEQUENT CHANGES, ADDITIONS AND OR CORRECTIONS TO THE CONTRACT DRAWINGS AND OR CONTRACT SCOPE MADE DURING CONSTRUCTION. THIS DRAWING SHALL REPRESENT A COMPLETE RECORD OF THE WORK INSTALLED.

1.4 EQUIPMENT OPERATING INSTRUCTIONS

- A. ON COMPLETION AND ACCEPTANCE OF WORK, THIS CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS, EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
- B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE-RING BINDERS WITH CLEAR ACETATE COVERS. THE CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE ELECTRONIC COPY TO THE ENGINEER.
- C. THE INSTRUCTION BOOKLET SHALL BE ORGANIZED IN SECTIONS. WITH ONE SECTION PER SYSTEM. THE COVER OF THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND PHONE NUMBER OF THE PROJECT, ARCHITECT, ENGINEER, MECHANICAL CONTRACTOR AND SUBCONTRACTORS.

### SECTION 230713 - DUCT INSULATION

1.1 QUALITY ASSURANCE

SURFACE-BURNING CHARACTERISTICS: ALL INSULATION SHALL HAVE COMPOSITE (INSULATION JACKET OR FACING AND ADHESIVE USED TO ADHERE THE FACING OR JACKET TO THE INSULATION) A FLAME-SPREAD INDEX OF 25, AND SMOKE-DEVELOPED INDEX OF 50 FOR INSULATION INSTALLED INDOOR, 75, AND SMOKE-DEVELOPED INDEX OF 150 FOR INSULATION INSTALLED OUTDOORS; ACCORDING TO ASTME 84.

A. FIELD INSPECTIONS: BY OWNER-ENGAGED AGENCY.

- 1.3 INDOOR DUCT AND PLENUM INSULATION SCHEDULE;
- A. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL SUPPLY-RETURN, OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION:
- B. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS:

	SA PLANUM	RA PLANUM
UNCONDITIONED SPACES:	R-4.2	R-4.2
UNVENTED ATTIC ABOVE INSULATED CEILING:	R-6	R-4.2
EXTERIOR OF BUILDING:	R-6	R-4.2

1.4 ITEMS NOT INSULATED:

- 1. FIBROUS-GLASS DUCTS.
- 2. METAL DUCTS WITH DUCT LINER OR SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1.
- 3. FACTORY-INSULATED FLEXIBLE DUCTS.
- FACTORY-INSULATED PLENUMS AND CASINGS.
- 5. FLEXIBLE CONNECTORS.
- 6. VIBRATION-CONTROL DEVICES.
- FACTORY-INSULATED ACCESS PANELS AND DOORS.
- 8. DUCTS THAT HAVE INTERNAL ACOUSTICAL LINING.

- A. THE FOLLOWING INSULATION MANUFACTURERS WILL BE ACCEPTABLE:
  - 1. JOHNS-MANVILLE
- 2. OWENS-CORNING
- 1.6 ACOUSTICAL TREATMENT
  - 1. WHERE SHOWN ON THE DRAWINGS, LOW PRESSURE DUCTWORK SHALL BE LINED WITH 1.5" THICK R-6 AS MANUFACTURED BY DUCTMATE, 1-1/2 POUND MINIMUM DENSITY, NEOPRENE COATED, FLEXIBLE FIBERGLASS DUCT LINER. LINING SHALL COMPLY WITH NFPA 90A AND SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING 1.3 DUCT CLEANING NOT MORE THAN 50. DUCT SIZES WHERE LINING IS INDICATED ON PLANS ARE MINIMUM INSIDE CLEAR DIMENSIONS REQUIRED,

SECTION 233113 - METAL DUCTS

1.1 CONSTRUCTION

- A. EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC SMACNA DUCT PRESSURE CLASSIFICATIONS SHOWN ON THE CONTRACT DRAWINGS. WHERE NO PRESSURE CLASSES ARE SPECIFIED BY THE DESIGNER, THE SMACNA 2-1/2 INCH WG PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THESE STANDARDS. REGARDLESS OF THE VELOCITY IN THE DUCT.
- B. ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA 2" WG DESIGN AND NOT LESS THAN THE FOLLOWING STANDARDS:
  - 1. DUCTWORK SHALL BE TRANSVERSELY JOINTED BY CONNECTING SEAMS OF COMPANION ANGLES, FORMED FROM 1-1/2"X1-1/2"X1/8" GALVANIZED ANGLES, TACK-WELDED OR RIVETED TO THE DUCT. THE ANGLE FRAME SHALL BE CONTINUOUSLY FLANGED UP INTO UPRIGHT OF ANGLE AND EACH CORNER SHALL BE FILLED IN AND GROUND SMOOTH. JOINTS SHALL BE SECTION 233713 - DIFFUSERS AND GRILLES GASKETED WITH 1/8" THICK REINFORCED GASKET, OVERLAPPED AT CORNERS, GASKET SIMILAR 3M-1202 OR APPROVED EQUÁL.
  - 2. RECTANGULAR FITTINGS AND ALL TRANSITION PIECES FROM RECTANGULAR TO ROUND SHALL BE NO. 16 GAUGE ALL WELDED CONSTRUCTION.
  - 3. HORIZONTAL DUCTS SHALL BE SUPPORTED ON NOT MORE THAN 6' CENTERS. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR.
  - 4. LONGITUDINAL SEAMS FOR RECTANGULAR DUCTWORK SHALL BE PITTSBURGH LOCK SEAMS WITH SEALING COMPOUND, EQUAL TO BENJAMIN FOSTER NO. 30-03 INSERTED INTO SEAM. ALL SEAMS SHALL BE BRUSHED WITH NO. 30–02 AND COVERED WITH APPROVED SEALING TAPE.
- 5. RECTANGULAR DUCTWORK 18 GAUGE AND HEAVIER. FILLER RODS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR IRON AND STEEL GAS WELDING RODS, ASTM 215; AWG A5.2.
- 6. ALL FITTINGS SUCH AS ELBOWS, TEES, ETC., SHALL BE NO. 20 GAUGE ZINC COATED STEEL. ELBOWS SHALL BE OF FIVE (5) PIECE WELDED AIRTIGHT CONSTRUCTION.
- C. WHERE LATEST EDITION OF SMACNA DOES NOT CLEARLY STATE GAUGES AND/OR STIFFENERS TO BE USED OR. WHERE SMACNA STANDARDS REQUIRE INTERPRETATION, THE END OF SECTION 233713 FOLLOWING MINIMUM METAL GAUGES AND BRACING SHALL BE USED:

- MAX. SIDE INCHES TRANSVERSE JOINTS AND <u>USG</u> <u>BRACING</u>
- UP TO 12 S SLIP, DRIVE SLIP, ONE INCH 22 POCKET LOCK ON 8 FOOT CENTERS
- 22 13 TO 24 1"X1"X1/8" ANGLES ON 4
- FOOT CENTERS 20 25 TO 35 1"X1"X1/8" ANGLES ON 2 FOOT CENTERS
- D. PROVIDE TAPPING IN DUCTS FOR THERMOMETERS WHERE SPECIFIED. IN ADDITION, PROVIDE AN AIRTIGHT PLUGGED TAPPING LOCATED AS FOLLOWS:
  - 1. UPSTREAM OF EACH REHEAT COIL AND VAV BOX.
  - 2. DOWNSTREAM OF EACH REHEAT COIL AND VAV BOX.
- E. FLAT OVAL OR ROUND DUCTWORK MAY BE PROVIDED IN LIEU RECTANGULAR DUCTWORK WITH THE REINFORCEMENT FOR FLAT SIDES SAME AS SPECIFIED FOR THE RECTANGULAR DUCTWORK, AND AS PER SMACNA FLAT OVAL DUCT CONSTRUCTION STANDARDS SHOWN IN FIG. 3-6 AND AS SHOWN IN FIG. 3-1 AND 3-2 FOR ROUND DUCTWORK.
- F. ALL DUCTWORK SHALL BE SEALED TO CLASS "A" AND LEAK TESTED TO MEAT SMACNA CLASS 6 FOR RECTANGULAR AND CLASS 3 FOR ROUND DUCTS.

### 1.2 MATERIALS

- A. SINGLE-WALL RECTANGULAR DUCTS AND FITTINGS.
- B. SINGLE-WALL ROUND AND FLAT-OVAL DUCTS AND FITTINGS.
- C. SHEET METAL MATERIALS:
- 1. GALVANIZED SHEET STEEL
- STAINLESS—STEEL SHEETS.
- 3. ALUMINUM SHEETS.
- 4. FACTORY-APPLIED ANTI-MICROBIAL COATING.
- D. DUCT LINER:
  - 1. FIBROUS GLASS, TYPE I, FLEXIBLE.
  - a. WITH ANTI-MICROBIAL EROSION-RESISTANT COATING.
  - 2. FLEXIBLE ELASTOMERIC.

# E. SEALANT MATERIALS:

3. NATURAL FIBER.

- 1. TWO-PART TAPE SEALING SYSTEM.
- 2. WATER-BASED JOINT AND SEAM SEALANT.
- 3. SOLVENT-BASED JOINT AND SEAM SEALANT.
- 4. FLANGED JOINT SEALANT.
- 5. FLANGE GASKETS.
- ROUND DUCT JOINT O-RING SEALS.

- BEFORE TESTING, A. CLEAN EXISTING DUCT SYSTEM(S) ADJUSTING, AND BALANCING.
- B. CLEAN THE FOLLOWING ITEMS:
- 1. AIR OUTLETS AND INLETS.
- 2. SUPPLY, RETURN, AND EXHAUST FANS.
- 3. AIR-HANDLING UNITS.
- 4. COILS AND RELATED COMPONENTS
- 5. RETURN-AIR DUCTS, DAMPERS, ACTUATORS, AND TURNING VANES.
- 6. SUPPLY-AIR DUCTS. DAMPERS, ACTUATORS, AND
- TURNING VANES. 7. DEDICATED EXHAUST AND VENTILATION COMPONENTS AND MAKEUP AIR SYSTEMS

### 1.4 DUCT SCHEDULE A. ALL DUCTS SHALL BE GALVANIZED STEEL EXCEPT AS

FOLL OV

8. MOIST ENVIRONMENT DUCT MATERIAL: ALUMINUM.

# END OF SECTION 233113

DIFFUSERS AND GRILLES SHALL BE FURNISHED AND INSTALLED FOR CAPACITIES AND IN LOCATIONS INDICATED ON DRAWINGS. ALL REGISTERS AND DIFFUSERS SHALL BE PRIME COATED STEEL OR EXTRUDED ALUMINUM FINISHED UNLESS OTHERWISE NOTED IN BAKED WHITE ENAMEL.

- B. MANUFACTURERS: TITUS
- 1. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING:
- a. CARNES.
- b. HART & COOLEY INC.
- c. KRUEGER.
- d. METALAIRE, INC.
- e. NAILOR INDUSTRIES INC.
- C. ALL DIFFUSERS SHALL HAVE CONTROLLING/EQUALIZING GRID AND OPPOSED BLADE DAMPER UNLESS OTHERWISE NOTED.
- D. ALL DUCTED RETURN REGISTERS SHALL HAVE AN OPPOSED BLADE DAMPER UNLESS OTHERWISE NOTED.

C403.2.4.1 THERMOSTATIC CONTROLS

Α.

В.

- THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, NOT FEWER THAN ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.
- EXCEPTION: INDEPENDENT PERIMETER SYSTEMS THAT ARE DESIGNED TO OFFSET ONLY BUILDING ENVELOPE HEAT LOSSES. GAINS OR BOTH SERVING ONE OR MORE PERIMETER ZONES ALSO SERVED BY AN INTERIOR SYSTEM PROVIDED THAT BOTH OF THE FOLLOWING CONDITIONS ARE MET:

THE PERIMETER SYSTEM INCLUDES NOT FEWER THAN ONE THERMOSTATIC CONTROL ZONE FOR EACH BUILDING EXPOSURE HAVING EXTERIOR WALLS FACING ONLY ONE ORIENTATION (WITHIN  $\pm$  45 DEGREES) (0.8 RAD) FOR MORE THAN 50 CONTIGUOUS FEET (15 240 MM). THE PERIMETER SYSTEM HEATING AND COOLING SUPPLY IS CONTROLLED BY THERMOSTATS LOCATED WITHIN THE ZONES SERVED BY THE SYSTEM.

### C403.2.4.1.2 DEADBAND

- WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F (2.8°C) WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM. **EXCEPTIONS:**
- THERMOSTATS REQUIRING MANUAL CHANGEOVER BETWEEN HEATING AND COOLING MODES. OCCUPANCIES OR APPLICATIONS REQUIRING PRECISION IN INDOOR TEMPERATURE CONTROL AS APPROVED BY THE CODE OFFICIAL.
- C403.2.4.1.3 SETPOINT OVERLAP RESTRICTION С.
  - WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH, MECHANICAL DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE CONFIGURED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.2.4.1.2.
- D. C403.2.4.2 OFF—HOUR CONTROLS EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM
  - EXCEPTIONS: ZONES THAT WILL BE OPERATED CONTINUOUSLY. ZONES WITH A FULL HVAC LOAD DEMAND NOT EXCEEDING
  - 6,800 BTU/H (2 KW) AND HAVING A READILY ACCESSIBLE MANUAL SHUTOFF SWITCH.
  - C403.2.4.2.1 THERMOSTATIC SETBACK
  - THERMOSTATIC SETBACK CONTROLS SHALL BE ONFIGURED TO SET BACK OR TEMPORARILY OPERATE IE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 5°F (13°C) OR UP TO 85°F (29°C).

C403.2.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN

- AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.
- C403.2.4.2.3 AUTOMATIC AND OPTIMUM START (MANDATORY)
- AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
- INDIVIDUAL HEATING AND COOLING SYSTEMS WITH SETBACK CONTROLS AND DIRECT DIGITAL CONTROL SHALL HAVE OPTIMUM START CONTROLS. THE CONTROL ALGORITHM SHALL, AS A MINIMUM, BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SET POINT, THE OUTDOOR TEMPERATURE, AND THE AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY. MASS RADIANT FLOOR SLAB SYSTEMS SHALL INCORPORATE FLOOR TEMPERATURE INTO THE OPTIMUM START ALGORITHM.

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

1.1 SUMMARY

G.

- A. TESTING, ADJUSTING, AND BALANCING FOR THE FOLLOWING:
  - 1. AIR SYSTEMS: CONSTANT-VOLUME
  - 2. CONDENSING UNITS.
- 1.2 QUALITY ASSURANCE
- A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TESTING, ADJUSTING AND BALANCING (TAB) SPECIALIST WHO SPECIALIZES IN HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS. THE TAB AGENT SHALL HAVE THE FOLLOWING QUALIFICATIONS: AABC, NEBB OR TABB CERTIFIED.

1.3 EXECUTION

A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. A REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.

### 1.3 EXECUTION

- SUBMITTED FOR OWNER REVIEW.
- MEASUREMENT LOCATIONS.
- MANUFACTURER'S RECOMMENDATIONS.
- ALL INSTRUMENTS USED FOR TAB SHALL BE MAINTAINED IN VALUES.
- REPORT
- SEASONAL TESTS.
- END OF SECTION 230593

A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. A REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE

B. THE REPORT SHALL INDICATE A SCHEMATIC DIAGRAM INDICATING LOCATIONS OF ALL EQUIPMENT TESTED AND

C. PRIOR TO FINAL INSPECTION OF THE WORK, THE TAB SPECIALIST SHALL BALANCE ALL SYSTEMS AS INDICATED ABOVE TO THE REQUIREMENTS OF THE DESIGN.

D. THE CONTRACTOR SHALL HAVE FURNISH AND INSTALL ALL ADDITIONAL BALANCING EQUIPMENT, PRESSURE TAPS, GAUGES AND OTHER EQUIPMENT AS REQUIRED FOR A PROPERLY BALANCED SYSTEM AT NO ADDITIONAL COST TO THE OWNER. SUCH ADDITIONAL EQUIPMENT SHALL ADHERE IN STRICT ACCORDANCE WITH THE RESPECTIVE EQUIPMENT

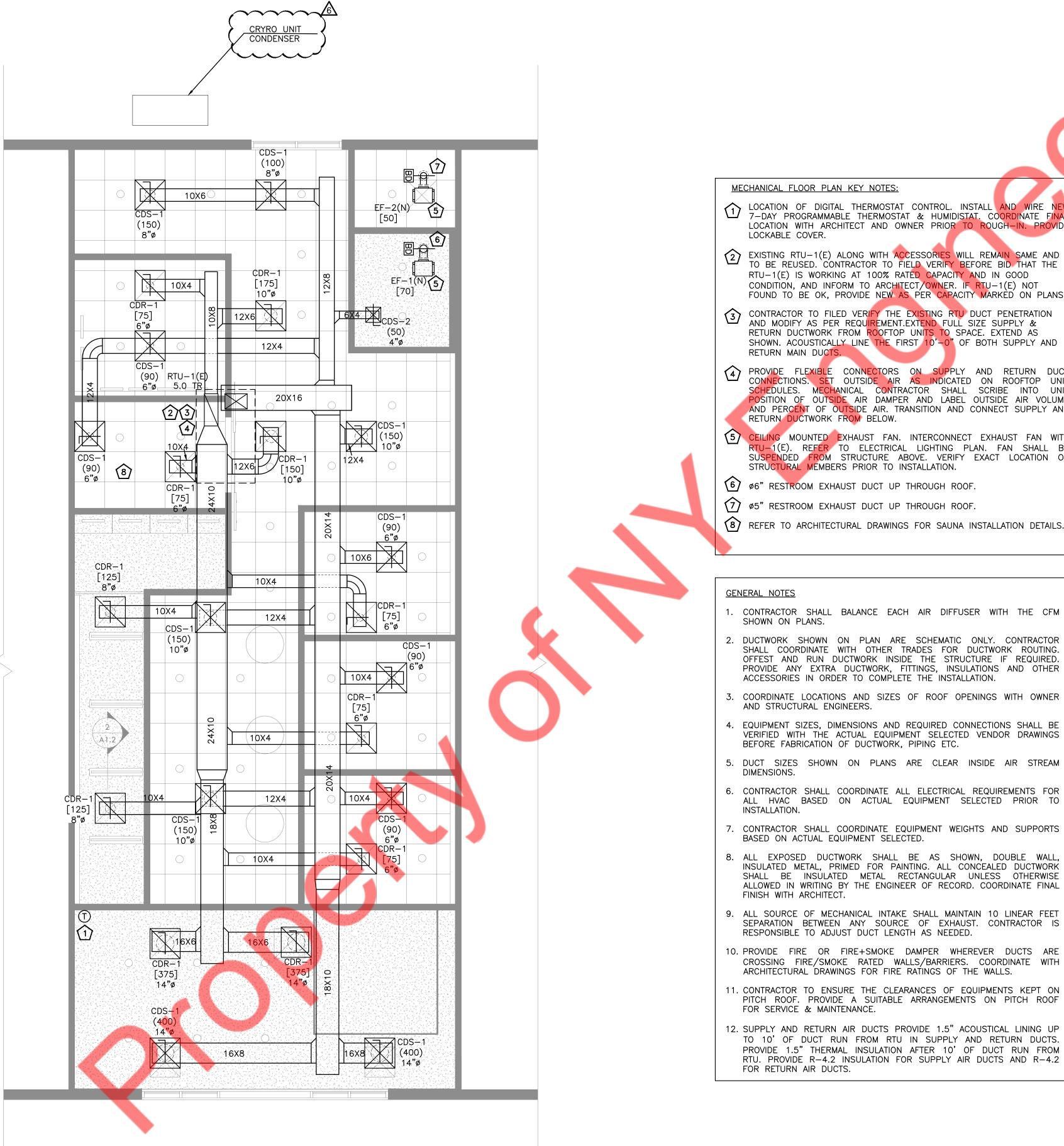
E. THE CONTRACTOR SHALL HAVE THE TESTING AND BALANCING SPECIALIST COORDINATE ALL WORK OF THIS SECTION WITH THE BUILDING MANAGER. BALANCING WORK SHALL NOT CONFLICT WITH OTHER WORK SO AS TO MAINTAIN COMPLETION WITHIN THE SPECIFIED TIME.

GOOD WORKING CONDITION AND ACCURATELY CALIBRATED. TOLERANCES: PLUS OR MINUS 5 PERCENT OF DESIGN

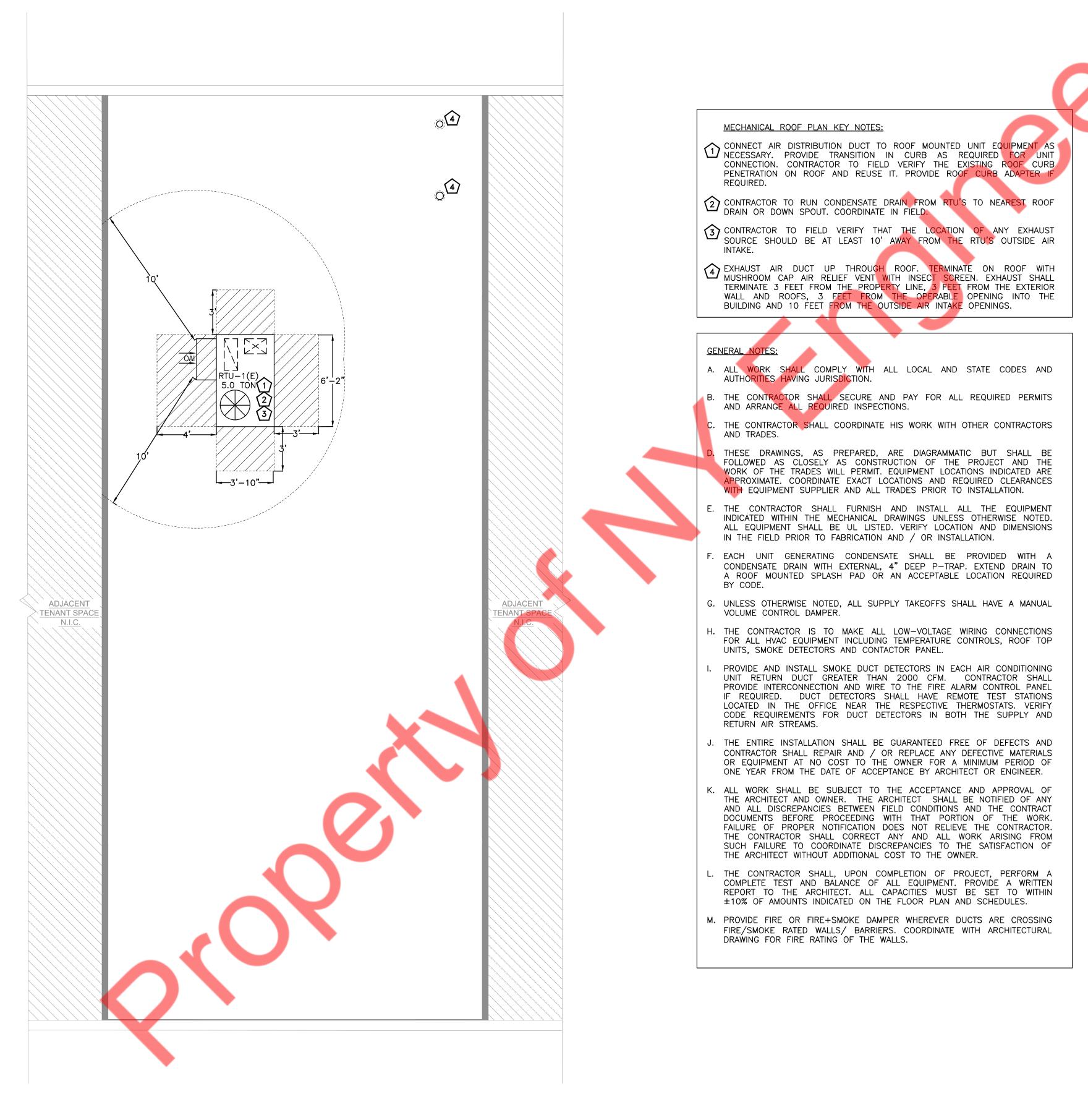
INSPECTIONS: RANDOM CHECKS BY OWNER OR ARCHITECT TO VERIFY FINAL TESTING, ADJUSTING, AND BALANCING

ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TAB TO VERIFY BALANCE CONDITIONS AND

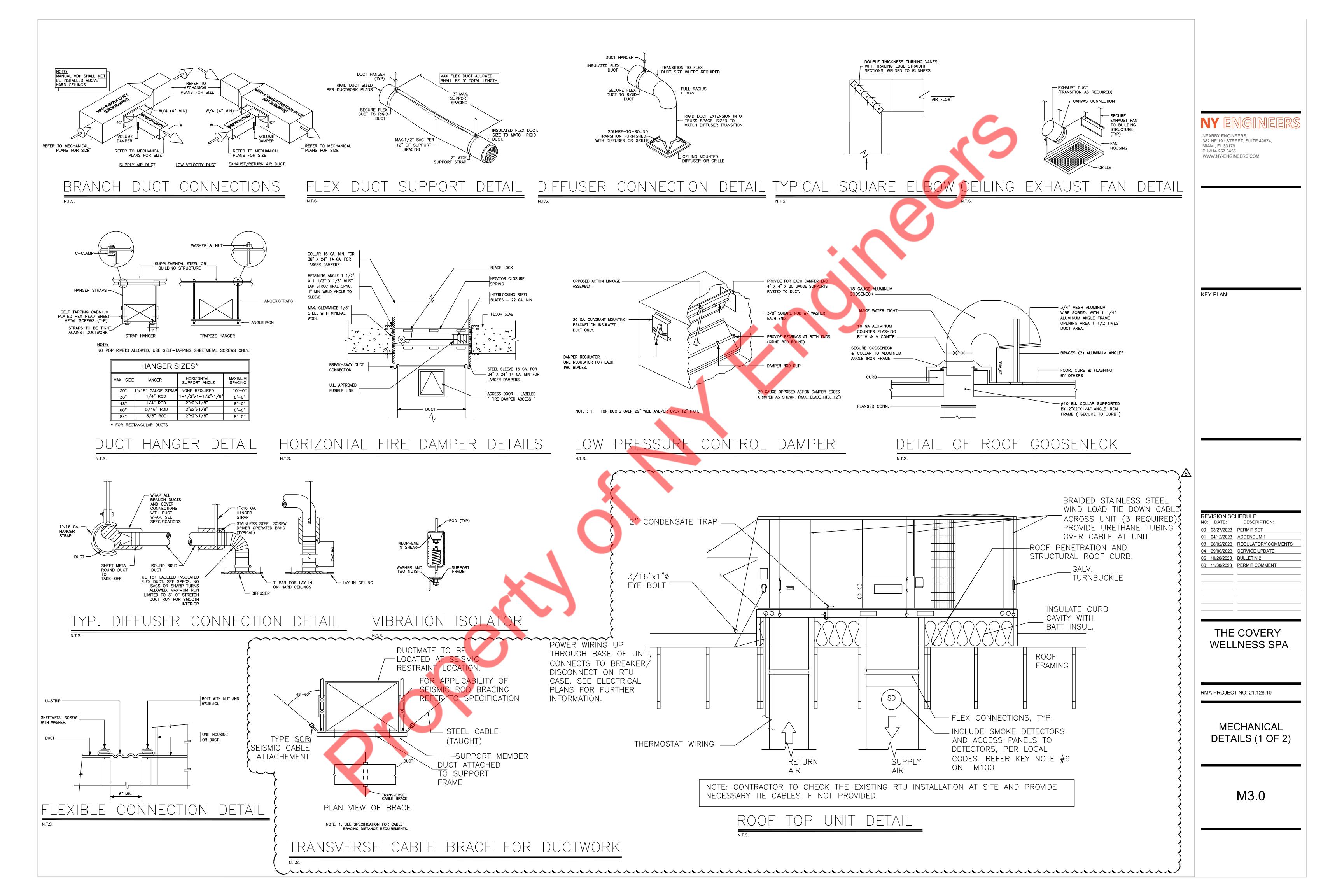
NEARBY ENGINEERS, 382 NE 191 STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM
KEY PLAN:
REVISION SCHEDULE         NO:       DATE:         DATE:       DESCRIPTION:         00       03/27/2023         PERMIT SET         01       04/12/2023         ADDENDUM 1         03       08/02/2023         REGULATORY COMMENTS         04       09/06/2023         SERVICE UPDATE
05         10/26/2023         BULLETIN 2           06         11/30/2023         PERMIT COMMENT
RMA PROJECT NO: 21.128.10 MECHANICAL NOTES & SPECIFICATION
M1.1

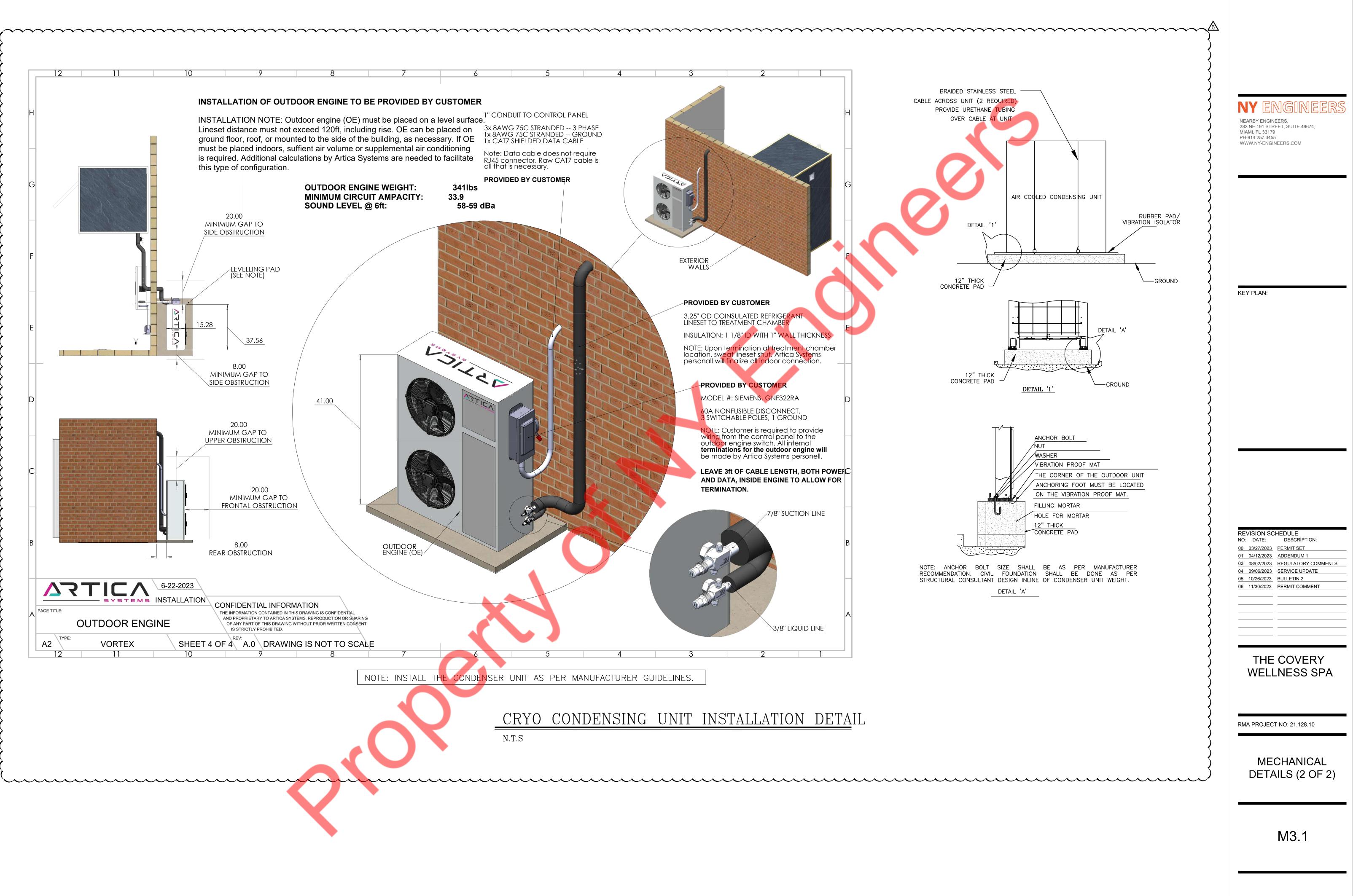


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IFW   VAL   D   NS.   JUNIT   NNT   ME	KEY PLAN:
NTH BE OF S.	
	REVISION SCHEDULE         NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMMENTS         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT
	THE COVERY WELLNESS SPA
	MECHANICAL FLOOR PLAN



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KEY PLAN:
REVISION SCHEDULE         NO:       DATE:         DESCRIPTION:         00       03/27/2023         PERMIT SET         01       04/12/2023         ADDENDUM 1
03       08/02/2023       REGULATORY COMMENTS         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT
RMA PROJECT NO: 21.128.10 MECHANICAL ROOF PLAN





ROOF TOP UNIT SCHEDULE																		
		AREA	NOMINAL		SUPPLY FAN		HEATING CAPACITY		CO	OLING CAPACIT	Y		ELEC	TRICAL				
UNIT ID MANUFACTU	ER MODEL	SERVED	TONS	SUPPLY	OUTSIDE AIR	ESP (IN. OF	ELECTRIC HEATING	TOTAL	SENSIBLE	AMBIENT TEMP	P. ENTERING TEMP.	VOLTS	PHASE	U	ΝΙΤ	COP	EER/IEER	WEIGHT
		SERVED	TONS	CFM	CFM	W.G.)	KW	MBH	MBH	DB (°F)	DB / WB (°F)	(∨)	PHASE	MCA (A)	MOCP (A			(LBS.)
RTU-1(E) CARRIER	50LC0008A2B5	SEE PLAN	5.0	2000	300	S.A.E	12	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E	S.A.E
NOTES:																		
1. CONTRACTOR TO VERIF	IN FIELD ACTUAL	CAPACITY OF UN	IT AND IF FOU	JND ANY DI	SCREPANCY IN	CAPACITY, CC	NTRACTOR TO INFOR	RMARCHI	TECT/OWNE	R PRIOR TO BID.								
2. CONTRACTOR TO FIELD	VERIFY BEFORE TH	E BID PROCESS IF	THE RTU IS V	<b>VORKING AT</b>	TITS 100% RATE	D CAPACITIES	S/LOADS. INFORM TO	ARCHITE	CT/OWNER IF	F ANY DISCREPAN	NCIES ARE FOUND IN	N PERFOR	RMANCE	PRIOR TO	O THE BID PI	ROCESS A	ND PROVIDE	A NEW UNIT
AS PER SITE CONDITIONS	AND CAPACITIES M	ENTIONED ABOV	E IN THE SCH	EDULE.														
3. EXISTING UNIT WITH AL	ACCESSORIES TO	REMAIN THE SAM	IE AND TO BE	REUSED.														
4. S.A.E : SAME AS EXISTIN	G.																	
5. CONTRACTOR TO FIELD	VERIFY EXACT LOCA	TION AND CON	FIGURATION	OF UNITS OF	N SITE.													
6. CONTRACTOR TO FIELD	VERIFY THE CONDE	NSATE DRAIN WI	ITH 2" DEEP V	ENTED TRAI	P DISCHARGE T	O SPLASH BLC	OCK ON ROOF IS IN GC	OD WOR	KING CONDI	TION, IF NOT PRO	OVIDE NEW.							
7. CONTRACTOR TO FIELD	VERIFY THE CABINE	T IS WITH 1/2" FI	BERGLASS IN	SULATION.						· · · · ·								
3. IF REQUIRED, PROVIDE	NEW THERMOSTAT	AND TEMPERATU	JRE SENSORS	COMPATIB	E WITH EXISTI	NG UNITS. CO	ORDINATE FINAL LOC	ATIONS C	F T-STAT AN	D T-SENSORS WI	TH ARCHITECT/OWI	NER.						
											,							

9. CONTRACTOR TO PROVIDE NEW THROWAWAY 2" FILTERS (MERV 8). PROVIDE GALVANIZED STEEL FILTER FRAMES.

10. CONTRACTOR TO FIELD VERIFY THE HOT GAS REHEAT AND ECONOMIZER ARE IN GOOD WORKING CONDITION, IF NOT INFORM TO ARCHITECT/ OWNER FOR THE REPLACEMENT OF SUCH ACCESSORIES. 11. CONTRACTOR TO READJUST & BALANCE THE OUTSIDE AIR DAMPER TO MEET THE ABOVE PRESCRIBED VALUE.

	FANS SCHEDULE												
TAG	AG SERVICE MODEL		E.S.P	CFM	ELEC	POWER	AMPS (A)	WEIGHT(LBS)	MAKE				
TAG .	JERVICE	NODLL	(IN. W.G.)	CLINI	(V/Hz/Ph.)	(W)	AIVIES (A)	WEIGHT(LDS)	IVIANL				
EF-1(N)	SEE PLAN	SP-B110ES	0.50	70	115/60/1	15	0.27(FLA)	15	GREENHECK				
EF-2(N)	SEE PLAN	SP-B110ES	0.50	50	115/60/1	15	0.27(FLA)	10	GREENHECK				

NOTES :-1) INTERCONNECT EF-1& 2 (N) FAN WITH RTU-1(E) IN RESTROOM. REFER TO ELECTRICAL LIGHTING PLAN.

2) REFER TO DETAILS, FAN SHALL BE MOUNTED W/SUPPORT FRAMING BY OTHERS.

3) PROVIDE MOTOR STARTERS, DISCONNECTS, BACKDRAFT DAMPER. ALL EQUIPMENT NORMAL POWER WIRING BY ELECTRICAL CONTRACTOR. COORDINATE POWER REQUIREMENTS.

4) COORDINATE WITH ARCH./G.C. ACCESS DOORS FOR SERVICING ALL FANS WITHIN CEILINGS.

	AIR BALANCE											
UNIT	AREA SERVED	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	RETURN AIR (CFM)	EXHAUST AIR(CFM)							
RTU-1(E)	SEE PLAN	2000	300	1700	0							
EF-1(N)	SEE PLAN	0	0	0	70							
EF-2(N)	SEE PLAN	0	0	0	50							
TOTAL:		2000	300	1700	120							
	BUILDING PRESSURE: 180 POSITIVE											

NOTES:

1. CONTRACTOR TO ADJUST MOTORIZED DAMPER ON FRESH AIR TAP TO PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.

			V	ENTILATIO	N CALCU	LATION					
	AREA	NUMBER OF PEOPLE/1000sq.ft AS	NUMBER OF PEOPLE	NUMBER	FINAL	MIN OUTSIDE AIR	AS PER FMC 2020	REQ. OA	Provided	EXHAUST AIRFLOW RATE	
ROOMNAME	(SQ.FT.)	PER FMC 2020	AS PER FMC 2020	OF CHAIR	PEOPLE NO.	CFM/PEOPLE	CFM/SQ.FT	(CFM)	OA (CFM)	(CFM/SQ.FT OR /FIXT.)	(CFM)
101 RECEPTION/RETAIL	300	30	9	4	9	5	0.06	63		0	0
103 TREATMENT	85	5	1	1	2	5	0.06	15		0	0
104 TREATMENT	85	5	1	1	2	5	0.06	15		0	0
106 CRYO/SALT THERAPY	150	5	1	1	2	5	0.06	19		0	0
102 IV SUITE	386	10	4	5	6	5	0.06	53		0	0
111 SAUNA/CRYO	80	5	1	3	2	5	0.06	15	300	0	0
107 BREAK ROOM	90	5	1	1	2	7.5	0.18	31		0	0
105 RED LIGHT	81	5	1	1	2	5	0.06	15		0	0
109 HYPERBARIC	175	10	1	1	2	5	0.06	21		0	0
108 EXST. RESTROOM	47	0	0	0	0	0	0	0		70	70
							TOTAL	247		-	70

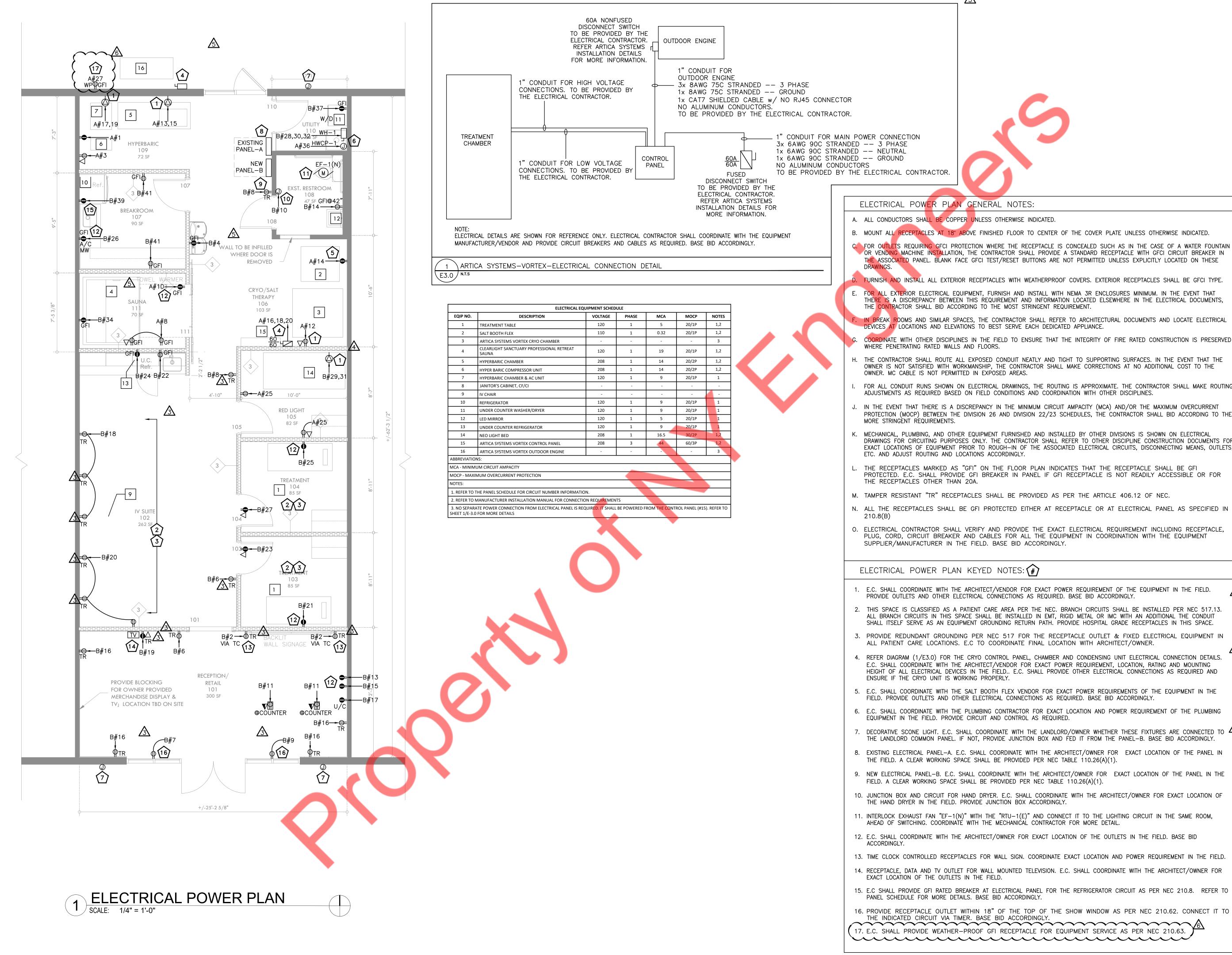
# AIR TERMINAL SCHEDULE BASIS OF DESIGN: TITUS

		BRSIS OF BESTON: ITTOS						
TAG	ТҮРЕ	CFM	DIMENSI		MAX NC dBA			
TAG		RANGE	ON(IN)	NODLE NO.				
CDS-1	SUPPLY	98-614	24X24	TMS	20			
CDS-2	SUPPLY	48-175	12X12	TMS	20			
CDR-1	RETURN	98-614	-614 24X24 TMS 20					
NOTES FO	R DIFFUSE	RS						
1. ALL GRI	LLES : CON <sup>-</sup>	TRACTOR S	HALL COO	RDINATE WITH	I LATEST			
ARCHITEC	TURAL REF	LECTED CE	LING PLAN	S PLANS TO E	NSURE			
PROPER A	IR DEVICE	BORDER SE	LECTION.					
2. COORD	INATE COL	OR/FINISH	WITH ARC	HITECT.				
15" DIA:53	86-615 CFM							
14" DIA: 3	96-535 CFN	1						
12" DIA: 2	76-395 CFN	1						
10" DIA: 1	76-275 CFN	1						
8" DIA: 10	1-175 CFM							
6" DIA: 0-2	100 CFM							





NEARBY ENGIN	EET, SUITE 49674,
KEY PLAN:	
REVISION SC NO: DATE: 00 03/27/2023 01 04/12/2023 03 08/02/2023 04 09/06/2023 05 10/26/2023 06 11/30/2023	DESCRIPTION: PERMIT SET ADDENDUM 1 REGULATORY COMMENTS SERVICE UPDATE
WELL	COVERY NESS SPA
	CHANICAL HEDULES
	M4.0



B. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO CENTER OF THE COVER PLATE UNLESS OTHERWISE INDICATED.

C. FOR OUTLETS REQUIRING GFCI PROTECTION WHERE THE RECEPTACLE IS CONCEALED SUCH AS IN THE CASE OF A WATER FOUNTAIN VOR VENDING MACHINE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY LOCATED ON THESE

FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS,

IN BREAK ROOMS AND SIMILAR SPACES, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DOCUMENTS AND LOCATE ELECTRICAL

COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED

THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE

FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING

PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE

MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, OUTLETS,

THE RECEPTACLES MARKED AS "GFI" ON THE FLOOR PLAN INDICATES THAT THE RECEPTACLE SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE GFI BREAKER IN PANEL IF GFI RECEPTACLE IS NOT READILY ACCESSIBLE OR FOR

1. E.C. SHALL COORDINATE WITH THE ARCHITECT/VENDOR FOR EXACT POWER REQUIREMENT OF THE EQUIPMENT IN THE FIELD.

SHALL ITSELF SERVE AS AN EQUIPMENT GROUNDING RETURN PATH. PROVIDE HOSPITAL GRADE RECEPTACLES IN THIS SPACE.

4. REFER DIAGRAM (1/E3.0) FOR THE CRYO CONTROL PANEL, CHAMBER AND CONDENSING UNIT ELECTRICAL CONNECTION DETAILS.

HEIGHT OF ALL ELECTRICAL DEVICES IN THE FIELD.. E.C. SHALL PROVIDE OTHER ELECTRICAL CONNECTIONS AS REQUIRED AND

6. E.C. SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF THE PLUMBING

7. DECORATIVE SCONE LIGHT. E.C. SHALL COORDINATE WITH THE LANDLORD/OWNER WHETHER THESE FIXTURES ARE CONNECTED TO  $\frac{\sqrt{3}}{\sqrt{3}}$ THE LANDLORD COMMON PANEL. IF NOT, PROVIDE JUNCTION BOX AND FED IT FROM THE PANEL-B. BASE BID ACCORDINGLY.

9. NEW ELECTRICAL PANEL-B. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION OF THE PANEL IN THE

10. JUNCTION BOX AND CIRCUIT FOR HAND DRYER. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION OF

11. INTERLOCK EXHAUST FAN "EF-1(N)" WITH THE "RTU-1(E)" AND CONNECT IT TO THE LIGHTING CIRCUIT IN THE SAME ROOM,

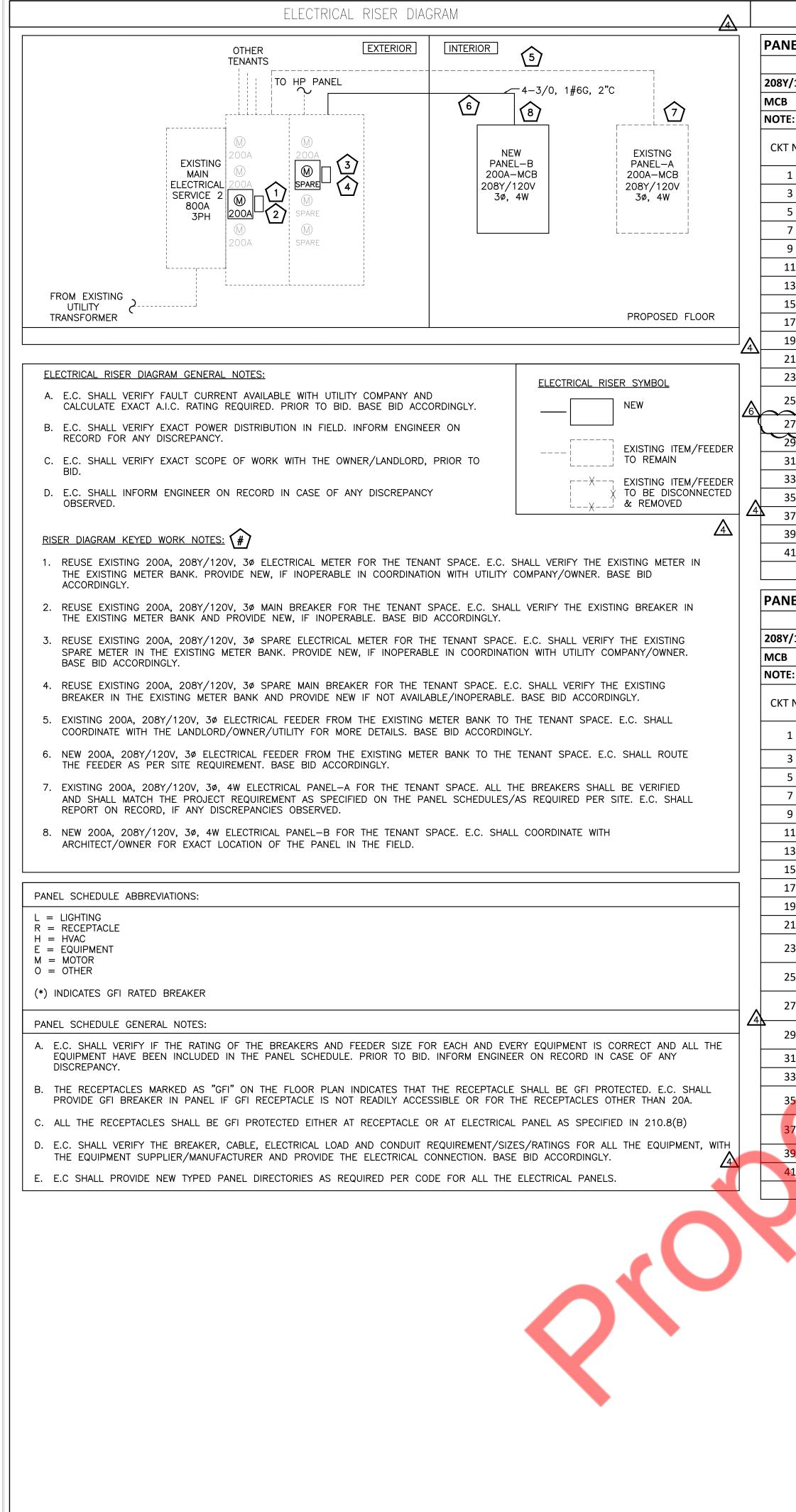
12. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION OF THE OUTLETS IN THE FIELD. BASE BID

13. TIME CLOCK CONTROLLED RECEPTACLES FOR WALL SIGN. COORDINATE EXACT LOCATION AND POWER REQUIREMENT IN THE FIELD. 14. RECEPTACLE, DATA AND TV OUTLET FOR WALL MOUNTED TELEVISION. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR

15. E.C SHALL PROVIDE GFI RATED BREAKER AT ELECTRICAL PANEL FOR THE REFRIGERATOR CIRCUIT AS PER NEC 210.8. REFER TO

16. PROVIDE RECEPTACLE OUTLET WITHIN 18" OF THE TOP OF THE SHOW WINDOW AS PER NEC 210.62. CONNECT IT TO

38 ML PH	<b>EXARBY ENGINEERS</b> , 2 NE 191 STREET, SUITE 49674, AMI, FL 33179 I-914.257.3455 WW.NY-ENGINEERS.COM
KE	Y PLAN:
NO 00 01 03 04 05	03/27/2023         PERMIT SET           04/12/2023         ADDENDUM 1           08/02/2023         REGULATORY COMMENTS           09/06/2023         SERVICE UPDATE           10/26/2023         BULLETIN 2
06  	THE COVERY WELLNESS SPA
	ELECTRICAL POWER PLAN E3.0



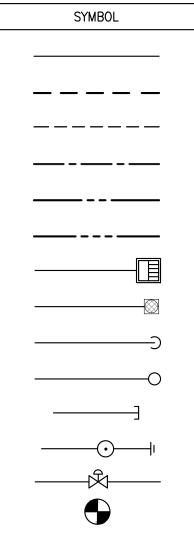
		SURFACE	MOUNTING:		SCHEDULE						(EXISTING)	Δ	NEL:
												~	126.
			PANEL LOCATION:				RE		PHASE	3	4		
		ELECTRICAL	FED FROM:					MINIMUM	200A	BUS:	E - EQUIPMENTS, H - HVAC.	200A ECEPTACLE,	
	CKT NO.	TRIP AMPS	TYPE DESCRIPTION OF LOAD	LOAD (KVA) LOAD TYPE	MINIMUM BRANCH CIRCUIT	(KVA)	PER PHAS	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	
NY ENGINEE	2	20	SPARE			L	A B .00	2#12, 1#12, 3/4"C	1.00	E	HYPERBARIC -AC UNIT	20	
NEARBY ENGINEERS,	4	20	SPARE				0.1	2#12, 1#12, 3/4"C	0.18	R	GENERAL RECEPTACLE - HYPERBARIC	20	
382 NE 191 STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455	6 4	20	SPARE			0.18		2#12, 1#12, 3/4"C	0.18	R	SERVICE RECEPTACLE ON ROOF	20	
WWW.NY-ENGINEERS.COM	8	20 20		0.36 R 0.20 R	2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C		.66 6.5	3#4, 1#8, 1"C	6.30 6.30	Н	RTU-1(E)	80/3P	
	12	20		0.18 R	2#12, 1#12, 3/4"C	6.48	0.5		6.30	н		00/01	
	5 14	20	SALT BOOTH FLEX	0.04 E	2#12, 1#12, 3/4"C		.54	2#12, 1#12, 3/4"C	1.50	E	HYPERBARIC CHAMBER	20/2P	
	16			5.28 E			6.7	2π12, 1π12, J/4 C	1.50	E		201 2r	
	18 20	60/3P	ARTICA SYSTEMS CRYO MAIN POWER	5.28 E 5.28 E	4#6, 1#6, 1"C _	6.78	.78	2#12, 1#12, 3/4"C	1.50 1.50	E	HYPERBARIC -COMPRESSOR UNIT	20/2P	
	22	20	SPARE				0.0				SPARE	20	
	24	20	SPARE			0.00					SPARE	20	
	26	20	SPARE				.36	2#12, 1#12, 3/4"C	0.36	R	REDLIGHT ROOM - GENERAL	20	
	28	20	SPARE				0.1	2#12, 1#12, 3/4"C	0.18	R	EXTERIOR SERVICE RECEPTACLE	20	
	30	20	SPARE SPARE			0.00					SPARE SPARE	-	
	32	20 20	SPARE		· ·		.00 0.0				SPARE	20	
KEY PLAN:	36	20		0.50 R	2#12, 1#12, 3/4"C	0.50					SPARE	20	
	38 4	20	SPARE				.00				SPARE	20	
	40	20	SPARE				0.0				SPARE	20	
	42	20	SPARE			0.00	5.34 13.6				SPARE	20	
		SURFACE	MOUNTING:								(NEW)	В	:
		I						4	PHASE A	3	(NEW)		
	A METER	I	PANEL LOCATION:				RE	4 V MINIMUM	PHASE 4	3 BUS:	(NEW)	<b>B</b> VOLTS 4 200A	0
	METER	вон	PANEL LOCATION:				RE				(NEW) RECEPTACLE, E - EQUIPMENTS.	VOLTS 4	)
		вон	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD	LOAD (KVA) LOAD TYPE	MINIMUM BRANCH CIRCUIT	(KVA)				BUS:		VOLTS 4	) LI(
		BOH ELECTRICAL	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION	LOAD (KVA) LOAD TYPE 1.00 R		(KVA) C	RE	MINIMUM MINIMUM BRANCH	200A	BUS:	RECEPTACLE, E - EQUIPMENTS.	VOLTS <u>4</u> 200A GHTING, R - 1	
		BOH ELECTRICAL TRIP AMPS 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION WALL       BACKLIT SIGNAGE AT RECEPTION EXAMPLE	1.00 R 0.36 R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20	0 - LI(
		BOH ELECTRICAL TRIP AMPS 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL       DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH	1.00     R       0.36     R       0.36     R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	(KVA) C 1.36	RE PER PHAS A B .00 1.3	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20	) LI(
	CKT NO. 2 4 6 8	BOH ELECTRICAL TRIP AMPS 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL       DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH       GENERAL RECEPTACLES - BOH	1.00     R       0.36     R       0.36     R       0.36     R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B .00 1.3 .86	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.50	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20	) LI(
		BOH ELECTRICAL TRIP AMPS 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         Restroom HAND DRYER	1.00       R         0.36       R         0.36       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B .00 1.3	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20	
	CKT NO. 2 4 6 8 10 12 14	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36	RE PER PHAS A B .00 1.3 .86	MINIMUM       BRANCH         CIRCUIT       -         2#12, 1#12, 3/4"C       -	200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.50	BUS: LOAD TYPE L L L L L	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	
	CKT NO. 2 4 6 8 10 12 14 16	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         TR RECEPTACLE - RECEPTION	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         0.36       R         0.36       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .86 3.0	MINIMUM       BRANCH         CIRCUIT	200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50	BUS: LOAD TYPE L L L L L R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
REVISION SCHEDULE NO: DATE: DESCRIPTION:	CKT NO. 2 4 6 8 10 12 14 16 18	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLDRINKING FOUNTAIN RECEPTACLEGENERAL RECEPTACLES - FOHGENERAL RECEPTACLES - FOHGENERAL RECEPTACLES - BOHRESTROOM HAND DRYERRESTROOM & SHOWER HAND DRYERRESTROOM GFI RECEPTACLERESTROOM GFI RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36	RE PER PHAS A B .00 1.3 .86 3.0 .56 1.8	MINIMUM       BRANCH         CIRCUIT	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.00	BUS: LOAD TYPE L L L L L L R E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET	CKT NO. 2 4 6 8 10 12 14 16	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         RESTROM GFI RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         0.36       R         0.36       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .86 3.0 .56	MINIMUM       BRANCH         CIRCUIT	200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50	BUS: LOAD TYPE L L L L L R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM	CKT NO. 2 4 6 8 10 12 14 16 18 20	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04	MINIMUM       BRANCH         CIRCUIT	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1	BUS: LOAD TYPE L L L L L L R E E E E R	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.18       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.50 0.50 0.50 0.50	BUS: LOAD TYPE L L L L L L E E E E E R E R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         UC REFRIGERATOR - IV SUITE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 0.50 1.10	BUS: LOAD TYPE L L L L L L L E E E E E R E E E E E E	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLES PAPER SHREDDER - RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       A         200A       A         GHTING, R -       A         TRIP AMPS       20         20 <td< td=""><td>0 - LI</td></td<>	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         UC REFRIGERATOR - IV SUITE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 0.50 0.50	BUS: LOAD TYPE L L L L L L L L L E E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM	VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTACLEBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLE - RECEPTIONBACKLIT RECEPTACLESBACKLIT RECEPTACLES </td <td>1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E         1.10       E         2.66       E</td> <td>CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C</br></br></td> <td>C 1.36 1.86 1.54</td> <td>RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60</td> <td>MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C</td> <td>200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.100 1.50 1.50 1.100 1.50 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.100 1.50 1.100 1.100 1.100 1.50 1.10</td> <td>BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E</td> <td>RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         TREATMENT BED - TREATMENT ROOM</td> <td>VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20</td> <td>D • LI(</td>	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E         1.10       E         2.66       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.100 1.50 1.50 1.100 1.50 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.100 1.50 1.100 1.100 1.100 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         TREATMENT BED - TREATMENT ROOM	VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20	D • LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTACLEBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLE - RECEPTIONBACKLIT RECEPTACLESBACKLIT RECEPTACLES </td <td>1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         1.50       E         1.00       E         1.10       E         2.66       E         2.66       E</td> <td>CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C</br></br></td> <td>C C I I I I I I I I I I I I I I I I I I</td> <td>RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60 3.7 .60 3.7</td> <td>MINIMUM BRANCH         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C</td> <td>200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10</td> <td>BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E</td> <td>RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM</td> <td>VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20</td> <td>0 - LI</td>	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         1.50       E         1.00       E         1.10       E         2.66       E         2.66       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60 3.7 .60 3.7	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM	VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 24 26 30 32	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUTE RECEPTACLES         IV SUTE RECEPTACLES         IV SUTE RECEPTACLES         IV S	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .00 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60 3.7 .60 3.7 .46	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       20         30/2P       20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         WATER HEATER (WH-1)         IV       WATER HEATER (WH-1)         IV       CLEARLIGHT LIGHT SAUNA	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .86 3.0 .56 1.8 .04 0.6 .56 1.8 .60 3.7 .60 3.7 .46 1.7	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE RECEPTION COUNTER RECEPTACLES PAPER SHREDDER - RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       4         200A         GHTING, R -         TRIP AMPS         20 <td>0 - LI</td>	0 - LI
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 24 26 28 30 32 34 36	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         IV SUITE GENERAL RECEPTACLES<	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .00 3.0 .56 3.0 .56 3.0 .56 1.8 .04 0.6 .60 3.7 .60 3.7 .46 1.7 .46 1.7	MINIMUM BRANCH CIRCUIT         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 1.10 0.50 1.10 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00	BUS: LOAD TYPE L L L L L L L L L L L E E E E E E E E	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE RECEPTION COUNTER RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       20	D • LI(
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO.         2         4         6         8         10         12         14         16         18         20         22         24         26         28         30         32         34         36         38	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUTE GENERAL RECEPTACLES         IV SUTE GENERAL RECEPTACL	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E         2.66       E         2.66       E         1.70       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .86 3.0 .56 1.8 .04 0.6 .56 1.8 .60 3.7 .60 3.7 .46 1.7	MINIMUM BRANCH CIRCUIT         2#12, 1#12, 3/4"C         2#10, 1#10, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.10 1.50 1.10 1.50 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L L E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         SPARE         SPARE         UC_WASHER /DRYER - BREAKROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       30/2P         20       3         20       3         20       3         20       3         20       3         20	
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO.         2         4         6         8         10         12         14         16         18         20         22         24         26         28         30         32         34         36         38         40	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         Contract of the stress	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E         2.66       E         2.66       E         1.70       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C         C         1.36	RE PER PHAS A B .00 1.3 .00 1.3 .00 3.0 .56 3.0 .56 3.0 .56 1.8 .04 0.6 .60 3.7 .60 3.7 .46 1.7 .46 1.7	MINIMUM BRANCH CIRCUIT	200A         LOAD (KVA)         1.00         1.00         1.00         1.00         1.00         1.00         1.50         0.36         0.20         1.50         0.36         0.20         1.50         1.00         0.50         1.10         0.50         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.100         1.80         1.80         1.00         1.00	BUS: LOAD TYPE LOAD TYPE L L L L L L L L L L L L L	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PAPER SHREDDER - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         SPARE         SPARE         UC_WASHER /DRYER - BREAKROOM         REFRIGERATOR- BREAKROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       30/2P         20       3         20       3         20       3         20       3         20       3         20	) LI(

		SURFACE	MOUNTING:		SCHEDULE						(EXISTING)	Δ	NEL:
												~	126.
			PANEL LOCATION:				RE		PHASE	3	4		
		ELECTRICAL	FED FROM:					MINIMUM	200A	BUS:	E - EQUIPMENTS, H - HVAC.	200A ECEPTACLE,	
	CKT NO.	TRIP AMPS	TYPE DESCRIPTION OF LOAD	LOAD (KVA) LOAD TYPE	MINIMUM BRANCH CIRCUIT	(KVA)	PER PHAS	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	
NY ENGINEE	2	20	SPARE			L	A B .00	2#12, 1#12, 3/4"C	1.00	E	HYPERBARIC -AC UNIT	20	
NEARBY ENGINEERS,	4	20	SPARE				0.1	2#12, 1#12, 3/4"C	0.18	R	GENERAL RECEPTACLE - HYPERBARIC	20	
382 NE 191 STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455	6 4	20	SPARE			0.18		2#12, 1#12, 3/4"C	0.18	R	SERVICE RECEPTACLE ON ROOF	20	
WWW.NY-ENGINEERS.COM	8	20 20		0.36 R 0.20 R	2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C		.66 6.5	3#4, 1#8, 1"C	6.30 6.30	Н	RTU-1(E)	80/3P	
	12	20		0.18 R	2#12, 1#12, 3/4"C	6.48	0.5		6.30	н		00/01	
	5 14	20	SALT BOOTH FLEX	0.04 E	2#12, 1#12, 3/4"C		.54	2#12, 1#12, 3/4"C	1.50	E	HYPERBARIC CHAMBER	20/2P	
	16			5.28 E			6.7	2π12, 1π12, J/4 C	1.50	E		201 2r	
	18 20	60/3P	ARTICA SYSTEMS CRYO MAIN POWER	5.28 E 5.28 E	4#6, 1#6, 1"C _	6.78	.78	2#12, 1#12, 3/4"C	1.50 1.50	E	HYPERBARIC -COMPRESSOR UNIT	20/2P	
	22	20	SPARE				0.0				SPARE	20	
	24	20	SPARE			0.00					SPARE	20	
	26	20	SPARE				.36	2#12, 1#12, 3/4"C	0.36	R	REDLIGHT ROOM - GENERAL	20	
	28	20	SPARE				0.1	2#12, 1#12, 3/4"C	0.18	R	EXTERIOR SERVICE RECEPTACLE	20	
	30	20	SPARE SPARE			0.00					SPARE SPARE	-	
	32	20 20	SPARE		· ·		.00 0.0				SPARE	20	
KEY PLAN:	36	20		0.50 R	2#12, 1#12, 3/4"C	0.50					SPARE	20	
	38 4	20	SPARE				.00				SPARE	20	
	40	20	SPARE				0.0				SPARE	20	
	42	20	SPARE			0.00	5.34 13.6				SPARE	20	
		SURFACE	MOUNTING:								(NEW)	В	:
		I						4	PHASE A	3	(NEW)		
	A METER	I	PANEL LOCATION:				RE	4 V MINIMUM	PHASE 4	3 BUS:	(NEW)	<b>B</b> VOLTS 4 200A	0
	METER	вон	PANEL LOCATION:				RE				(NEW) RECEPTACLE, E - EQUIPMENTS.	VOLTS 4	)
		вон	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD	LOAD (KVA) LOAD TYPE	MINIMUM BRANCH CIRCUIT	(KVA)				BUS:		VOLTS 4	) LI(
		BOH ELECTRICAL	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION	LOAD (KVA) LOAD TYPE 1.00 R		(KVA) C	RE	MINIMUM MINIMUM BRANCH	200A	BUS:	RECEPTACLE, E - EQUIPMENTS.	VOLTS <u>4</u> 200A GHTING, R - 1	
		BOH ELECTRICAL TRIP AMPS 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION WALL       BACKLIT SIGNAGE AT RECEPTION EXAMPLE	1.00 R 0.36 R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20	0 - LI(
		BOH ELECTRICAL TRIP AMPS 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL       DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH	1.00     R       0.36     R       0.36     R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	(KVA) C 1.36	RE PER PHAS A B .00 1.3	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20	) LI(
	CKT NO. 2 4 6 8	BOH ELECTRICAL TRIP AMPS 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL       DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH       GENERAL RECEPTACLES - BOH	1.00     R       0.36     R       0.36     R       0.36     R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B .00 1.3 .86	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.50	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20	) LI(
		BOH ELECTRICAL TRIP AMPS 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         Restroom HAND DRYER	1.00     R       0.36     R       0.36     R       0.36     R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C	RE PER PHAS A B .00 1.3	MINIMUM BRANCH CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00	BUS:	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20	
	CKT NO. 2 4 6 8 10 12 14	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36	RE PER PHAS A B .00 1.3 .86	MINIMUM       BRANCH         CIRCUIT       -         2#12, 1#12, 3/4"C       -	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.50	BUS: LOAD TYPE L L L L L	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	
	CKT NO. 2 4 6 8 10 12 14 16	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         TR RECEPTACLE - RECEPTION	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         0.36       R         0.36       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .86 3.0	MINIMUM       BRANCH         CIRCUIT	200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50	BUS: LOAD TYPE L L L L L R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
REVISION SCHEDULE NO: DATE: DESCRIPTION:	CKT NO. 2 4 6 8 10 12 14 16 18	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLDRINKING FOUNTAIN RECEPTACLEGENERAL RECEPTACLES - FOHGENERAL RECEPTACLES - FOHGENERAL RECEPTACLES - BOHRESTROOM HAND DRYERRESTROOM & SHOWER HAND DRYERRESTROOM GFI RECEPTACLERESTROOM GFI RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36	RE PER PHAS A B .00 1.3 .86 3.0 .56 1.8	MINIMUM       BRANCH         CIRCUIT	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.00	BUS: LOAD TYPE L L L L L L R E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET	CKT NO. 2 4 6 8 10 12 14 16	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         RESTROM GFI RECEPTACLES         RESTROM GFI RECEPTACLES         RESTROM GFI RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.36       R         0.36       R         0.36       R         0.36       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .86 3.0 .56	MINIMUM       BRANCH         CIRCUIT	200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50	BUS: LOAD TYPE L L L L L R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM	CKT NO. 2 4 6 8 10 12 14 16 18 20	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04	MINIMUM       BRANCH         CIRCUIT	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1	BUS: LOAD TYPE L L L L L L R E E E E R	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.18       R	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.50 0.50 0.50 0.50	BUS: LOAD TYPE L L L L L L E E E E E R E R E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM	VOLTS 4 200A GHTING, R - TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         UC REFRIGERATOR - IV SUITE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 0.50 1.10	BUS: LOAD TYPE L L L L L L L E E E E E R E E E E E E	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLES PAPER SHREDDER - RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       A         200A       A         GHTING, R -       A         TRIP AMPS       20         20 <td< td=""><td>0 - LI</td></td<>	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:         FED FROM:         TYPE         DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         UC REFRIGERATOR - IV SUITE	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A 200A LOAD (KVA) 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 0.50 0.50	BUS: LOAD TYPE L L L L L L L L L E E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM	VOLTS 4 200A GHTING, R - 1 TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTACLEBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLE - RECEPTIONBACKLIT RECEPTACLESBACKLIT RECEPTACLES </td <td>1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E         1.10       E         2.66       E</td> <td>CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C</br></br></td> <td>C 1.36 1.86 1.54</td> <td>RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60</td> <td>MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C</td> <td>200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.100 1.50 1.50 1.100 1.50 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.100 1.50 1.100 1.100 1.100 1.50 1.10</td> <td>BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E</td> <td>RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         TREATMENT BED - TREATMENT ROOM</td> <td>VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20 20 20 20 20 20 20 20 20</td> <td>D • LI(</td>	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.18       R         1.00       E         1.10       E         2.66       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 	C 1.36 1.86 1.54	RE PER PHAS A B .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60	MINIMUM BRANCH         CIRCUIT         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 0.36 0.20 1.50 1.100 1.50 1.50 1.100 1.50 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.50 1.100 1.100 1.50 1.100 1.100 1.100 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         TREATMENT BED - TREATMENT ROOM	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20 20 20 20 20 20 20 20 20	D • LI(
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	BOH         ELECTRICAL         TRIP AMPS         20         2	PANEL LOCATION:FED FROM:TYPEDESCRIPTION OF LOADBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTION WALLBACKLIT SIGNAGE AT RECEPTACLEBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - FOHBACKLIT SIGNAGE AT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLES - BOHBACKLIT RECEPTACLE - RECEPTIONBACKLIT RECEPTACLESBACKLIT RECEPTACLES </td <td>1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         1.50       E         1.00       E         1.10       E         2.66       E         2.66       E</td> <td>CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C</br></br></td> <td>C C I I I I I I I I I I I I I I I I I I</td> <td>RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60 3.7 .60 3.7</td> <td>MINIMUM BRANCH         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C</td> <td>200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10</td> <td>BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E</td> <td>RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM</td> <td>VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20 20 20 20 20 20 20 20 20</td> <td>0 - LI</td>	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         1.50       E         1.00       E         1.10       E         2.66       E         2.66       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .04 0.6 .60 3.7 .60 3.7	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM	VOLTS 4 200A GHTING, R - I TRIP AMPS 20 20 20 20 20 20 20 20 20 20	0 - LI
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 24 26 30 32	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - BOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUTE RECEPTACLES         IV SUTE RECEPTACLES         IV SUTE RECEPTACLES         IV S	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .56 3.0 .56 1.8 .04 0.6 .60 0.6 .60 3.7 .46 0.6	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         RECEPTION COUNTER RECEPTACLES         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM         REATMENT BED - TREATMENT ROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       20         30/2P       20	0 - LI
NO:         DATE:         DESCRIPTION:           00         03/27/2023         PERMIT SET           01         04/12/2023         ADDENDUM 1           03         08/02/2023         REGULATORY COMM           04         09/06/2023         SERVICE UPDATE           05         10/26/2023         BULLETIN 2	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         WATER HEATER (WH-1)         IV MATER HEATER (WH-1)         IV CLEARLIGHT LIGHT SAUNA	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C I I I I I I I I I I I I I I I I I I	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .86 3.0 .56 1.8 .04 0.6 .56 1.8 .60 3.7 .60 3.7 .46 1.7	MINIMUM BRANCH         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 0.36 0.20 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L E E E E E E E E E	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE RECEPTION COUNTER RECEPTACLES PAPER SHREDDER - RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20	0 - LI
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 24 26 28 30 32 34 36	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM & SHOWER HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         UV SUITE RECEPTACLES         UV SUITE RECEPTACLES         RESTROOM GFI RECEPTACLES         RESTROOM WAVE - BREAKROOM         RESTROOMAVE - BREAKROOM         RESTROMAVE - BREAKROOM         RESTROMATER (WH-1)         RESTROMATER HEATER (WH-1)         RESTROMATER HEATER (WH-1)	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.18       R         1.00       E         1.10       E         2.66       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .00 3.0 .56 3.0 .56 3.0 .56 1.8 .04 0.6 .60 3.7 .60 3.7 .46 1.7 .46 1.7	MINIMUM BRANCH CIRCUIT         2#12, 1#12, 3/4"C         2#12, 1#12, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 0.50 1.10 0.50 1.10 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.50 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.00	BUS: LOAD TYPE L L L L L L L L L L L L L	RECEPTACLE, E - EQUIPMENTS. DESCRIPTION OF LOAD INTERIOR LIGHTING - FOH INTERIOR LIGHTING - BOH EXTERIOR SIGNAGE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE SHOW WINDOW RECEPTACLE RECEPTION COUNTER RECEPTION LAMINATION MACHINE - RECEPTION PRINTER - RECEPTION TV RECEPTACLE - RECEPTION/RETAIL TREATMENT BED - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM BIO CHARGER - TREATMENT ROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       20	D • LI(
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO.         2         4         6         8         10         12         14         16         18         20         22         24         26         28         30         32         34         36         38	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         DRINKING FOUNTAIN RECEPTACLE         GENERAL RECEPTACLES - FOH         RESTROOM HAND DRYER         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLE         RESTROOM GFI RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUITE RECEPTACLES         IV SUITE GENERAL RECEPTACLES         IV SUTE GENERAL RECEPTACLES         IV SUTE GENERAL RECEPTACL	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C C C C C C C C C C C C C C C C C C C	RE PER PHAS A B .00 1.3 .00 1.3 .86 3.0 .86 3.0 .56 1.8 .04 0.6 .56 1.8 .60 3.7 .60 3.7 .46 1.7	MINIMUM BRANCH CIRCUIT         2#12, 1#12, 3/4"C         2#10, 1#10, 3/4"C	200A LOAD (KVA) 1.00 1.00 1.00 1.50 1.10 1.50 1.10 1.50 1.50 1.10 1.50 1.10 1.50 1.10 1.50 1.10 1.10 1.10 1.50 1.10	BUS: LOAD TYPE L L L L L L L L L L L E E E E E E E E	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PRINTER - RECEPTION         TV RECEPTACLE - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         SPARE         SPARE         UC_WASHER /DRYER - BREAKROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       30/2P         20       3         20       3         20       3         20       3         20       3         20	
NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMM         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2         06       11/30/2023       PERMIT COMMENT	CKT NO.         2         4         6         8         10         12         14         16         18         20         22         24         26         28         30         32         34         36         38         40	BOH ELECTRICAL TRIP AMPS 20 20 20 20 20 20 20 20 20 20 20 20 20	PANEL LOCATION:         FED FROM:         TYPE       DESCRIPTION OF LOAD         BACKLIT SIGNAGE AT RECEPTION         WALL         Contract of the stress	1.00       R         0.36       R         0.36       R         0.36       R         1.50       R         1.50       R         0.36       R         0.54       R         0.54       R         1.00       E         1.10       E         2.66       E         2.66       E         1.70       E	CIRCUIT 2#12, 1#12, 3/4"C 2#12, 1#12, 3/4"C 3#10, 1#10, 3/4"C	C         C         1.36	RE PER PHAS A B .00 1.3 .00 1.3 .00 3.0 .56 3.0 .56 3.0 .56 1.8 .04 0.6 .60 3.7 .60 3.7 .46 1.7 .46 1.7	MINIMUM BRANCH CIRCUIT	200A         LOAD (KVA)         1.00         1.00         1.00         1.00         1.00         1.00         1.50         0.36         0.20         1.50         0.36         0.20         1.50         1.00         0.50         1.10         0.50         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.100         1.80         1.80         1.00         1.00	BUS: LOAD TYPE LOAD TYPE L L L L L L L L L L L L L	RECEPTACLE, E - EQUIPMENTS.         DESCRIPTION OF LOAD         INTERIOR LIGHTING - FOH         INTERIOR LIGHTING - BOH         EXTERIOR SIGNAGE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         SHOW WINDOW RECEPTACLE         PAPER SHREDDER - RECEPTION         LAMINATION MACHINE - RECEPTION         PAPER SHREDDER - RECEPTION/RETAIL         TREATMENT BED - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         BIO CHARGER - TREATMENT ROOM         SPARE         SPARE         UC_WASHER /DRYER - BREAKROOM         REFRIGERATOR- BREAKROOM	VOLTS       A         200A       GHTING, R -         GHTING, R -       I         TRIP AMPS       20         20       30/2P         20       3         20       3         20       3         20       3         20       3         20	) LI(

LLLOINICAL
<b>RISER DIAGRAM</b>
& PANEL
SCHEDULE

E4.0

# PLUMBING LEGEND



DESCRIPTION
SANITARY WASTE
SANITARY SEWER (UNDERFLOOR)
VENT PIPING
COLD WATER
HOT WATER
RECIRCULATING HOT WATER
FLOOR SINK WITH HALF GRATE
FLOOR DRAIN
PIPE UP OR DOWN
PIPE UP
CAP ON END OF PIPE
CLEANOUT
SOLENOID VALVE
POINT OF NEW CONNECTION

## PLUMBING ABBREVIATIONS

BFP	BACK FLOW PREVENTER
СО	CLEANOUT
CODP	CLEAN OUT DECK PLATE
CW	COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
ET	EXPANSION TANK
EX.	EXISTING
FCO	FLOOR CLEANOUT
FS	FLOOR SINK
HW	HOT WATER
HWCP	HOT WATER CIRCULATION PUMP
HWR	HOT WATER RETURN
LAV	LAVATORY
MS	MOP SINK
SAN	SANITARY
SK	SINK
TMV	THERMOSTATIC MIXING VALVE
TYP.	TYPICAL
WC	WATER CLOSET
WH	HOT WATER HEATER
WMB	WASHING MACHINE BOX

# PLUMBING DRAWING LIST

- P1.0 PLUMBING SYMBOLS & ABBREVIATIONS
- P1.1 PLUMBING SPECIFICATIONS
- P2.0 PLUMBING DOMESTIC WATER PIPING PLAN
- P2.1 PLUMBING SANITARY & VENT PIPING PLAN
- P3.0 PLUMBING DETAILS(1 OF 2)
- P3.1 PLUMBING DETAILS(2 OF 2)
- P4.0 PLUMBING SCHEDULES & RISER DIAGRAMS

# CODE COMPLIANCE

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THESE PROJECT:

- a. 2020 FLORIDA BUILDING CODE-BUILDING, 7TH EDITION.
- b. 2020 FLORIDA BUILDING CODE-MECHANICAL, 7TH EDITION.
- c. 2020 FLORIDA BUILDING CODE-PLUMBING, 7TH EDITION.
- d. 2020 FLORIDA BUILDING CODE-FUEL GAS, 7TH EDITION.
- e. 2020 FLORIDA BUILDING CODE-ENERGY CONSERVATION, 7TH EDITION.
- f. NFPA 70, NATIONAL ELECTRICAL CODE-2017 EDITION.



## PLUMBING SPECIFICATIONS:

1. BASIC PLUMBING REQUIREMENTS, MATERIALS AND METHODS

### 1.01 SCOPE

- A. PROVIDE ALL MATERIAL, TOOLS, SUPERVISION AND LABOR INCLUDING ALL MISCELLANEOUS AND INCIDENTAL ITEMS REQUIRED FOR COMPLETE AND OPERABLE PLUMBING INSTALLATIONS AS SHOWN OR DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS WITHIN THE CONSTRUCTION AREA. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.
- C. OBTAIN ALL PERMITS, PAY ALL PERMIT FEES AND SCHEDULE ALL REQUIRED INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION CERTIFICATES SHALL BE FORWARDED TO THE OWNER FOR RECORD.
- D. THE GENERAL CONDITIONS OF THE CONTRACT AND ALL DIVISION 1 REQUIREMENTS APPLY TO THE WORK OF THIS SECTION.
- E. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE CONDITIONS AND THE EXTENT OF THE WORK. BY COMMENCING WORK, THE CONTRACTOR ACKNOWLEDGES HIS CONFIRMATION OF ALL CONDITIONS AS ACCEPTABLE WITH REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE SUCH THAT NO ADDITIONAL COMPENSATION SHALL BE FORTHCOMING FOR UNFORESEEN EXISTING CONDITIONS.
- F. IN ALL AREAS SUBJECT TO FREEZING CONDITIONS, THE CONTRACTOR SHALL PROVIDE FREEZE PROTECTION FOR ALL DOMESTIC WATER PIPING INSTALLED UNDER HIS CONTRACT.
- G. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE CONTRACTOR FOR ELECTRICAL WORK. THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT. THE CONTRACTOR FOR ELECTRICAL WORK IS RESPONSIBLE FOR LINE VOLTAGE POWER WIRING ONLY.
- H. COLOR AND FINISH SELECTIONS FOR ALL MATERIALS, INCLUDING PAINTING OF PIPING, SHALL BE AS DIRECTED AND/OR APPROVED BY THE ARCHITECT.
- I. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED AS IF SPECIFIED OR INDICATED ON THE DRAWINGS.
- J. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS FOR THE INSTALLATION, CONNECTION, EXTENSION OR MODIFICATION TO ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS INCLUDING PAYMENT OF ALL ASSOCIATED FEES.
- K. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAINTING ASSOCIATED WITH CUTTING AND PATCHING. ALL PAINTING IN AREAS WITH COMPLETE FINISH RENOVATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.

1.02 SUBMITTALS

- A. SUBMITTAL REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECT AND AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL PROVIDE SUBMITTALS AS LISTED BELOW.
- 1. PIPE AND FITTINGS
- VALVES
   HANGERS AND SUPPORTS
- 4. PLUMBING PIPING LAYOUT
- TESTS
   PLUMBING FIXTURES
- 7. WATER HEATERS & ACCESSORIES
- 8. FLOOR DRAINS
- 9. MIXING VALVES 10. ALL SCHEDULED PLUMBING EQUIPMENT
- B. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED.
- C. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWINGS STAMP.
- D. SUBMIT PROOF OF APPROVAL AND/OR CONFIRMATION OF SATISFACTORY TEST RESULTS TO THE OWNER AND THE ARCHITECT.
- E. SUBMIT TO THE OWNER'S MAINTENANCE PERSONNEL OPERATION AND MAINTENANCE DATA FOR ALL SYSTEM COMPONENTS, SERVICING REQUIREMENTS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY AND CONTACT INFORMATION FOR SERVICE/SUPPLY COMPANY.
- F. FOR ALL BELOW GRADE PIPING WHERE ACTUAL INSTALLATION DEVIATES FROM CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING BELOW GRADE PIPE LOCATIONS DIMENSIONED TO NEAREST COLUMN LINES.
- G. RECORD AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE OWNER/TENANT AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM(S) INSTALLED.

### .03 SUBSTITUTIONS

- A. ALL EQUIPMENT SHALL BE PRODUCTS OF THE SPECIFIED MANUFACTURER OR MANUFACTURERS. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER OR MANUFACTURER'S EQUIPMENT. FOR SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT TO BE CONSIDERED, THE SUBSTITUTION MUST BE INDICATED PRIOR TO BIDDING WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ANY PROPOSED SUBSTITUTIONS.
- B. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES WHICH MAY BE AFFECTED BY SUBSTITUTIONS, INCLUDING ALL RELATED COSTS.

1.04 DEFINITIONS

- A. FURNISH: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER, COMPLETE WITH RELATED ACCESSORIES.
- B. INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED ACCESSORIES.
- C. PROVIDE: TO FURNISH AND INSTALL.
- D. PLUMBING CONTRACTOR, THE CONTRACTOR, THIS CONTRACTOR: THE CONTRACTOR FOR PLUMBING WORK WHICH IS SPECIFIED HEREIN AND SHOWN ON THESE DRAWINGS.
- E. REFER TO THE INTERNATIONAL PLUMBING CODE 2015 FOR ADDITIONAL DEFINITIONS.

### 1.04 DRAWINGS

- A. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE GENERAL ARRANGEMENT AND ROUTING OF PIPING AND GENERAL LOCATIONS OF EQUIPMENT. PRECISE LOCATIONS OF EQUIPMENT, RISERS AND STACKS, AND ROUTING AND ELEVATION OF ALL PIPING SYSTEMS SHALL BE COORDINATED IN THE FIELD WITH THE ARCHITECT, ARCHITECTURAL DRAWINGS, THE WORK OF OTHER TRADES, EXISTING AND NEW BUILDING CONDITIONS AND/OR THE PREFERENCES OF THE OWNER/TENANT AS CONSTRUCTION PROCEEDS. ALL PIPING SHALL BE INSTALLED CONCEALED IN FINISHED SPACES, UNLESS NOTED OTHERWISE.
- B. PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.
- C. REFER TO PLUMBING EQUIPMENT/FIXTURE SCHEDULE ON THE DRAWINGS FOR ALL FIXTURE AND EQUIPMENT SPECIFICATIONS.
- D. REFER TO FIXTURE CONNECTION SIZE SCHEDULE FOR ALL FIXTURE ROUGHING SIZE REQUIREMENTS.
- E. VERIFY ALL INDICATED CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES. THE DRAWINGS REFLECT CONDITIONS WHICH CAN BE REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER.
- F. LOCATE ALL FIXTURES AND EQUIPMENT AS PER THE FINAL ARCHITECTURAL DRAWINGS.

## 1.05 PRODUCTS

A. SANITARY AND VENT PIPING:

- 1. ABOVE GRADE AND UNDERGROUND PIPING SHALL BE POLYVINYL CHLORIDE (PVC) AS PER ASTM D2665, ASTM F891, ASTM F1488 AND CSA B181.2 STANDARDS ON TABLE P-702.1 AND P-702.2 RESPECTIVELY AS PER 2020 FLORIDA BUILDING CODE-PLUMBING, 7TH EDITION.
- 2. SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE OVER 3" (I.D.) AND 1/4" PER FOOT OF RUN FOR PIPE 3" AND SMALLER (I.D.). VENT PIPING SHALL BE PITCHED TO DRAIN.
- 3. PVC OR OTHER COMBUSTIBLE PLASTIC PIPING SHALL NOT BE INSTALLED IN CEILING PLENUM SPACES.

B. DOMESTIC WATER PIPING:

- 1. ABOVE GRADE AND UNDERGROUND WATER PIPING SHALL BE CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING AND COMPLY WITH ASTM F876, AWWA C904, CSA B137.5 STANDARDS ON TABLE 605.3 AND 605.4 AS PER 2020 FLORIDA BUILDING CODE-PLUMBING, 7TH EDITION.
- 2. FITTINGS IN DOMESTIC WATER PIPING SHALL BE CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING AND COMPLY WITH ASSE 1061, ASTM F877, ASTM F1807, ASTM F1960, ASTM F2080, ASTM F2098, ASTM F2159, ASTM F2434, ASTM F2735, CSA B137.5 ON TABLE 605.5 AS PER 2020 FLORIDA BUILDING CODE-PLUMBING, 7TH EDITION.
- . JOINTS SHALL BE MADE AS PER MANUFACTURER'S INSTRUCTIONS AND SHALL CONFIRM TO 2020 FLORIDA PLUMBING CODE.
- 4. THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE INSULATED INCLUDING ALL VALVES, FITTINGS, ETC.
- COMPLY WITH NSF 61 FOR MATERIALS FOR WATER-SERVICE PIPING AND SPECIALTIES FOR DOMESTIC WATER.
- 6. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH FIRE-RETARDANT, FACTORY-APPLIED JACKET. PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER. INSULATION REQUIREMENT SHOULD COMPLY WITH 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION, 7TH EDITION. REFER BELOW TABLE C403.2.10 FOR MINIMUM PIPE INSULATION THICKNESS.

MINIMUM PIPE INSULATION THICKNESS								
FLUID OPERATING	INSULATION CONDUCTIVITY			NOMINAL PIPE OR TUBE SIZE (INCHES)				
TEMPERATURE RANGE AND USAGE (°F)	CONDUCTIVITY BTU·IN./ (H·FT2·*F) MEAN RATING TEMPERATURE, *F		<1	1 to < 1½	1½ to < 4	4 to < 8	≥8	
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5	
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0	

- 7. AS PER 2020 FLORIDA BUILDING CODE ENERGY CONSERVATION, 7TH EDITION, SECTION 404.6.1, SYSTEMS DESIGNED TO MAINTAIN USAGE TEMPERATURES IN HOT WATER PIPES, SUCH AS RECIRCULATING HOT WATER SYSTEM OR HEAT TRACE, SHALL BE EQUIPPED WITH AUTOMATIC TIME SWITCHES OR OTHER CONTROLS THAT CAN BE SET TO SWITCH OFF THE USAGE TEMPERATURE MAINTENANCE SYSTEM DURING EXTENDED PERIODS WHEN HOT WATER IS NOT REQUIRED.
- 8. AS PER 2020 FLORIDA BUILDING CODE ENERGY CONSERVATION, 7TH EDITION, SECTION C404.7, DEMAND RECIRCULATION WATER SYSTEMS HAVE CONTROLS THAT START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE AND LIMITS THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F.

### C. ELECTRIC WATER HEATER

- 1. TANKS SHALL BE 40 GALLONS CAPACITY AND SHALL HAVE 150 PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE.
- ALL INTERNAL SURFACES OF THE HEATER(S) EXPOSED TO WATER SHALL BE GLASS-LINED WITH AN ALKALINE BORO SILICATE COMPOSITION THAT HAS BEEN FUSED-TO-STEEL BY FIRING AT A TEMPERATURE RANGE OF 1400°F TO 1600°F.
- 3. ELECTRIC HEATING ELEMENTS SHALL BE MEDIUM WATT DENSITY WITH ZINC PLATED COPPER SHEATH.
- 4. EACH ELEMENT SHALL BE CONTROLLED BY AN INDIVIDUALLY MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. ALL INTERNAL CIRCUITS SHALL BE FUSED. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH AND SHALL BE PROVIDED WITH FULL SIZE CONTROL COMPARTMENT FOR PERFORMANCE OF SERVICE AND MAINTENANCE THROUGH HINGED FRONT PANEL AND SHALL ENCLOSE THE TANK WITH FOAM INSULATION. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. THE DRAIN VALVE SHALL BE LOCATED IN THE FRONT FOR EASE OF SERVICING.

COM

### D. MIXING VALVES

1. VALVE BODY SHALL BE MADE OF CAST BRASS. THE INTERNAL COMPONENTS SHALL BE MADE OF BRASS OR STAINLESS STEEL.

2. TYPES A, C & D VALVES: VALVE SHUTS OFF IN FULL COLD POSITION AND MUST PASS THROUGH COLD RANGE BEFORE DELIVERING WARM, AND/OR HOT WATER. TEMPERATURE LIMIT SET AT 105'F MAXIMUM DELIVERY TEMPERATURE. IF ONE SUPPLY SHOULD FAIL, THE OTHER WILL AUTOMATICALLY AND INSTANTLY SHUT DOWN. DELIVERY CAPACITY IS 5GPM @ 45 PSIG DIFFERENTIAL.

3. TYPES OF VALVES: TYPE A- THERMOSTATICALLY OPERATED BY MEANS OF BI-METALLIC STRIP, OR EXPANSION BELLOWS; TYPE B-SINGLE HANDLE MECHANICAL MIXER, OR INDIVIDUAL HOT AND COLD CONTROL VALVES; TYPE C- PRESSURE BALANCING SHOWER VALVE/PISTON OPERATED MIXING VALVE; TYPE D- BALANCED PRESSURE OPERATION, WITH INTEGRAL DIAL THERMOMETER INDICATING DELIVERED WATER TEMPERATURE.

4. EACH ELEMENT SHALL BE CONTROLLED BY AN INDIVIDUALLY MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. ALL INTERNAL CIRCUITS SHALL BE FUSED. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH AND SHALL BE PROVIDED WITH FULL SIZE CONTROL COMPARTMENT FOR PERFORMANCE OF SERVICE AND MAINTENANCE THROUGH HINGED FRONT PANEL AND SHALL ENCLOSE THE TANK WITH FOAM INSULATION. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. THE DRAIN VALVE SHALL BE LOCATED IN THE FRONT FOR EASE OF SERVICING.

HOT WATER RE-CIRCULATING PUMP

1. IN-LINE PUMP: SINGLE STAGE VOLUTE TYPE PUMP SHALL BE MADE OF CAST IRON OR FORGED LEAD-FREE BRONZE IMPELLER.

2. THE PUMP SHALL HAVE A GROUND AND POLISHED STEEL SHAFT WITH A HARDENED INTEGRAL THRUST COLLAR. THE SHAFT SHALL BE SUPPORTED BY TWO HORIZONTAL SLEEVE BEARINGS DESIGNED TO CIRCULATE OIL. THE PUMPS ARE TO BE EQUIPPED WITH A MECHANICAL SEAL WITH CARBON SEAL FACE ROTATING AGAINST CERAMIC SEAT. THE MOTOR SHALL BE NON-OVERLOADING AT ANY POINT ON PUMP CURVE.

3. DIRECT CONNECT PUMP TO ELECTRIC MOTOR WITH FLEXIBLE COUPLING. THE MOTOR SHALL BE OF THE DRIP-PROOF, SLEEVE-BEARING, QUIET OPERATING, RUBBER-MOUNTED CONSTRUCTION. EQUIPMENT MOTOR WITH BUILT-IN THERMAL OVERLOAD PROTECTION.

4. INSTALL IN-LINE CIRCULATING PUMPS BETWEEN PIPE FLANGES IN PIPING SYSTEMS. INSTALL OVERHEAD PIPE SUPPORTS, BOTH SIDES OF IN-LINE PUMPS, INSTALLED IN HORIZONTAL PIPING RUNS.

### F. HANGERS AND SUPPORTS:

G. VALVES:

1. HANGERS SHALL BE STANDARD STEEL, MALLEABLE OR WROUGHT IRON, AS MANUFACTURED BY GRINNELL OR APPROVED EQUAL, SUITABLE FOR THE TYPE OF CONSTRUCTION. PIPING SHALL NOT BE HUNG FROM OTHER PIPE.

2. SECTIONS OF INDIVIDUAL PIPE RUNS SHALL BE SUPPORTED BY CLEVIS HANGERS.

3. ALL EQUIPMENT SHALL BE PROVIDED WITH APPROVED SUPPORTS...

4. SUPPORTS SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE PIPING MANUFACTURER.

1. PROVIDE GATE VALVES, BUTTERFLY OR BALL VALVES FOR SHUT-OFF DUTY ON MAIN AND BRANCH SUPPLY LINES. FOR ALL PIPE RUNS 2" AND SMALLER, PROVIDE BALL FOR ALL PIPE RUNS LARGER THAN 2" AND SMALLER THAN 4", PROVIDE GATE VALVES. PIPING 4" AND LARGER, PROVIDE BUTTERFLY VALVES FOR SHUT-OFF DUTY.

2. ALL FIXTURES WITH THE EXCEPTION O FLUSHOMETER-EQUIPPED WATER CLOSETS AND URINALS SHALL HAVE STOP VALVES TO CONTROL SUPPLY TO THE FIXTURE. WHERE SUPPLIES ARE EXPOSED PROVIDE CHROME-PLATED STOPS WITH CHROME-PLATED ESCUTCHEONS ON PIPING PENETRATIONS.

3. ALL PLUMBING FIXTURES AND EQUIPMENT TO HAVE SHUT-OFF VALVES ON SUPPLY LINES.

4. ALL BRANCH LINES TO HAVE SHUT-OFF VALVES.

5. ALL VALVES SHALL BE ACCESSIBLE. PROVIDE ACCESS DOORS WHERE REQUIRED FOR VALVE ACCESS.

6. PROVIDE GLOBE VALVES FOR THROTTLING/BALANCING OF THE HOT WATER CIRCULATING SYSTEM.

H. SLEEVES AND ESCUTCHEONS:

1. SLEEVES THROUGH STRUCTURAL CONCRETE MEMBERS AND SLEEVES FOR WALLS BELOW GRADE AND FLOORS ON GRADE SHALL BE STANDARD WEIGHT GALVANIZED SCHEDULE 40 STEEL PIPE. SLEEVES THROUGH OTHER THAN STRUCTURAL COMPONENTS OF THE BUILDING SHALL BE 20 GAGE GALVANIZED SHEET METAL WITH LOCK SEAM JOINTS. USG THERMAFIBER SAFING INSULATION SHALL BE INSTALLED BETWEEN PIPE AND SLEEVE.

2. PIPE ESCUTCHEON PLATES SHALL BE INSTALLED WHERE EXPOSED PIPING PASSES THROUGH WALLS, CEILINGS, AND FLOORS AND SHALL BE MINIMUM 20 GAGE STEEL. PROVIDE CHROME PLATED ESCUTCHEON PLATES IN FINISHED AREAS.

I. DRAINAGE ACCESSORIES

1. GENERAL:

a. INSTALL THE WORK OF THIS SECTION IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, UNLESS OTHERWISE SPECIFIED.

b. SECURE EXTERNAL COMPONENTS IN PLACE WITH VANDAL RESISTANT FASTENERS OR DEVICES WHICH CANNOT BE REMOVED WITHOUT SPECIAL TOOLS.

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KE	Y PLAN:
NO <u>00</u>	VISION SCHEDULEDATE:DESCRIPTION:03/27/2023PERMIT SET04/12/2023ADDENDUM 108/02/2023REGULATORY COMMENTS09/06/2023SERVICE UPDATE10/26/2023BULLETIN 2
	THE COVERY WELLNESS SPA
RM	A PROJECT NO: 21.128.10 PLUMBING SYMBOLS &
	ABBREVIATIONS

- 2. DEVICES:
- a. CLEANOUT & CLEANOUT PLUG
- THREADED PIPE FITTING OR CAST IRON FERRULE WITH GAS TIGHT CLEANOUT PLUG
- PLUG SHOULD BE CAST BRASS OR BRONZE, WITH THREADED END, AND RAISED OR COUNTERSUNK HEAD.
- LUBRICATE THREADS OF CLEANOUT PLUG WITH ANTI-SEIZE LUBRICANT BEFORE FINAL INSTALLATION.
- b. CLEANOUT WALL PLATE
- IT SHOULD BE ROUND, STAINLESS STEEL OR POLISHED CHROME PLATED BRONZE COVER PLATE WITH STAINLESS STEEL VANDAL RESISTANT FASTENER TO SECURE TO CLEANOUT PLUG.
- c. CLEANOUT DECK PLATE
- IT SHOULD BE STANDARD DUTY FLOOR CLEANOUT FITTING WITH COATED CAST IRON BODY; ROUND, POLISHED NICKEL BRONZE SCORIATED TOP SECURED TO CLEANOUT PLUG WITH STAINLESS STEEL VANDAL RESISTANT FASTENER; THREADED HEIGHT ADJUSTMENT, CAST IRON HEAD, GAS TIGHT CLEANOUT PLUG, AND CONNECTION TO MATCH PIPING OPTION SELECTED.
- J. INSTALL PIPING TO CONSERVE BUILDING SPACE. DO NOT INTERFERE WITH USE OF BUILDING SPACE AND THE WORK OF OTHER TRADES. ALL PIPING RUN IN CEILING SHALL BE INSTALLED TIGHT TO THE STRUCTURE ABOVE.
- K. VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES.
- L. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT. PROVIDE PIPE ANCHORS, GUIDES AND EXPANSION JOINTS OR LOOPS IN ALL HOT WATER AND HOT WATER CIRCULATING MAIN SUPPLY PIPING AND SEGMENTS OF SUCH PIPE THAT EXCEED 30'-0" IN LENGTH.
- M. IN ALL AREAS WITH FINISHED SURFACES, SYSTEM PIPING AND COMPONENTS SHALL BE CONCEALED ABOVE OR WITHIN FINISHED SURFACES.
- N. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL. REMOVE PROTECTIVE COATINGS PRIOR TO INSTALLATION.
- O. REDUCTIONS IN PIPE SIZES SHALL BE MADE WITH ONE-PIECE REDUCING FITTINGS. BUSHINGS ARE NOT ACCEPTABLE. USE FLANGED FITTINGS AT THE BASE OF RISERS.
- P. VENT PENETRATIONS THROUGH THE ROOF SHALL BE FLASHED.
- Q. IF WATER PRESSURE EXCEEDS 80 PSI, A WATER PRESSURE REDUCING VALVE SHALL BE INSTALLED IN WATER PIPING AT CONNECTION TO MAIN.
- R. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR METALS.
- S. PIPE BACKFLOW PREVENTER DRAINS TO FLOOR DRAIN OR OTHER APPROVED INDIRECT WASTE SOURCE.
- T. PROVIDE ACCESS DOORS/PANELS FOR SERVICE AND ACCESS TO ALL VALVES AND OTHER SYSTEM COMPONENTS ENCLOSED IN WALLS AND CEILINGS. ACCESS DOORS SHALL BE FURNISHED BY THIS CONTRACTOR, INSTALLED BY THE GENERAL CONTRACTOR.
- U. ALL FIXTURES REQUIRING VACUUM BREAKERS SHALL BE EQUIPPED WITH INTEGRAL VACUUM BREAKERS.
- V. ANY PENETRATIONS THROUGH FIRE RATED PARTITIONS, FLOORS, OR CEILINGS SHALL BE STEEL SLEEVED AND SEALED WITH 3M BRAND UL RATED FIRE BARRIER CAULK OR APPROVED EQUAL.
- W. WHEN THE WATER PIPING SYSTEM IS COMPLETE, THOROUGHLY FLUSH ALL DIRT, SEDIMENT, SOLDER, ETC., OUT OF THE SYSTEM, REMOVING ALL STRAINERS, VALVE STEM SEATS, ETC., REQUIRED TO ACCOMPLISH THE FLUSHING.
- X. AT ALL INDIRECT WASTE DRAINS, MAINTAIN AIR GAP AS REQUIRED BY CODE.
- Y. CONNECT GAS PIPING TO ALL GAS-FIRED EQUIPMENT WITH GAS COCK, DIRT LEG AND UNION.
- Z. FOR ALL GAS-FIRED EQUIPMENT, VERIFY INPUT RATING AND PRESSURE REQUIREMENTS. PROVIDE GAS PRESSURE REGULATORS VENTED TO THE BUILDING EXTERIOR ON GAS SUPPLY TO ALL EQUIPMENT REQUIRING LOWER THAN LINE GAS PRESSURE.
- AA.ALL PIPING INSTALLED ON THE ROOF SHALL BE SUPPORTED BY "PILLOW BLOCK" PIPE STANDS AS MANUFACTURED BY MIRO INDUSTRIES, OR APPROVED EQUAL. WOOD PIPE SUPPORTS SHALL NOT BE ACCEPTABLE. PROVIDE TRAFFIC/WALK PADS BELOW ALL PIPE STANDS.
- AB. INSTALL SLEEVES FOR ALL PIPES WHICH PASS THROUGH WALLS, FLOORS, AND CEILINGS. WHERE PIPES ARE TO BE INSULATED, THE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE INSULATION. SLEEVES SHALL BE FLUSH WITH FINISHED SURFACES AT BOTH ENDS. ON FINISHED SURFACES IN EXPOSED AREAS PROVIDE ESCUTCHEONS COMPATIBLE WITH FINISH.
- AC. PROVIDE WATER HAMMER ARRESTERS ON SUPPLY PIPING TO ALL FLUSHOMETER VALVES AND QUICK-CLOSING VALVES.
- AD. UNLESS OTHERWISE INDICATED, TRAPS SEALS AT ALL FLOOR DRAINS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMING DEVICE.
- AE. MAINTAIN ALL REQUIRED AND RECOMMENDED CLEARANCES FOR ALL PLUMBING SYSTEM COMPONENTS AND EQUIPMENT.
- AF. MAINTAIN MINIMUM 10'-O" CLEARANCE BETWEEN ALL PLUMBING V.T.R.S AND ALL OUTDOOR AIR INTAKES. OFFSET VENT STACKS AND STACK VENTS IF AND AS REQUIRED BELOW ROOF TO MAINTAIN SUCH CLEARANCE WHETHER OR NOT SUCH OFFSET IS INDICATED ON THE DRAWINGS. PROVIDE ALL REQUIRED SEISMIC SUPPORTS.

2. INSTALLATION

2.01 GENERAL

- A. ALL WORK WHICH REQUIRES DISRUPTION OF THE ROOFING SHALL BE DONE BY A CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ANY EXISTING ROOF WARRANTIES.
- B. EXTERIOR INSTALLATIONS TO BE WEATHER PROOF IN ALL RESPECTS.
- C. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT CORROSION, COLOR PER ARCHITECT.
- D. COORDINATE THE PLUMBING WORK WITH ALL OTHER AFFECTED WORK AND THE CONSTRUCTION SCHEDULE.
- E. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN AND
- FERROUS END PIPE. F. REMOVE SCALE AND FOREIGN MATERIAL, FROM INSIDE AND OUTSIDE,
- BEFORE ASSEMBLY.
- G. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES AND UNIONS.
- H. COORDINATION WITH THE WORK OF OTHER TRADES IS REQUIRED. PROVIDE OFFSETS IN PIPING SYSTEMS OR MINOR DEVIATIONS TO THE INDICATED PIPE ROUTING IN ORDER TO COORDINATE THE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES AND THE GENERAL BUILDING CONDITIONS.
- I. NO DOMESTIC WATER PIPING SHALL BE INSTALLED IN UNHEATED SPACES.
- J. PRIOR TO DISCONNECTING AND CONNECTING NEW WORK TO EXISTING SYSTEMS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE PROPERTY MANAGER AND OFFER A PROPOSED SCHEDULE OF WORK. ESB WILL AUTHORIZE CONNECTIONS AND COORDINATE NECESSARY SHUT DOWNS AND DRAIN DOWNS AS REQUIRED. SHUT DOWNS AND DRAIN DOWNS MAY BE PERFORMED BY THE PLUMBING CONTRACTOR ONLY AFTER RECEIVING ESB AUTHORIZATION, AND SHOULD BE PERFORMED UNDER SUPERVISION OF ESB PERSONNEL. THREE (3) DAYS ADVANCE NOTICE TO THE PROPERTY MANAGER IS REQUIRED.
- K. THE PLUMBING CONTRACTOR IS ADVISED THAT DUE TO THE NATURE OF THE OPERATIONS AND TENANT REQUIREMENTS, CONNECTIONS TO EXISTING SYSTEMS MAY HAVE TO BE MADE AFTER REGULAR WORKING HOURS. THE PROPERTY MANAGER WILL ADVISE THE PLUMBING CONTRACTOR OF THE TIME CONSTRAINTS UPON RECEIPT AND APPROVAL OF THE PLUMBING CONTRACTOR'S REQUEST FOR SHUT DOWN AND CONNECTION TO EXISTING SYSTEMS.
- L. WHEN CONNECTING TO EXISTING STACKS AND RISERS, PROVISION IS TO BE MADE FOR FUTURE CONNECTIONS BY PROVIDING CAPPED AND VALVED OUTLETS ON DOMESTIC WATER RISERS AND PLUGGED OUTLETS ON THE SANITARY AND VENT STACKS.

2.02 ABOVE GRADE

- A. INSTALL PLUMBING PIPING IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PIPING COMPLIES WITH REQUIREMENTS AND SERVES INTENDED PURPOSES.
- B. ROUTE PIPING IN AN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING STRUCTURE. MAINTAIN GRADIENT. SLOPE PIPING AND ARRANGE SYSTEMS TO DRAIN. IN DOMESTIC WATER SYSTEMS, PROVIDE DRAIN VALVES AT MAIN SHUT-OFF VALVES AND ALL LOW POINTS IN PIPING.
- C. USE EXISTING CONNECTIONS AT MAINS WHERE AVAILABLE FOR NEW BRANCH PIPING. LOCATE ALL RISERS AND PIPING BEFORE CONSTRUCTION COMMENCES AND TAKE CARE NOT TO DAMAGE SAME. ANY DAMAGE OCCURRING TO THE EXISTING PIPING WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

### 2.03 INSULATION

COVER ALL HOT WATER AND HOT WATER RECIRCULATION PIPE WITH 1½" THICK FOR PIPE SIZE UP TO 1½" AND 2" THICK FOR PIPE SIZE GREATER THAN 1½". INSTALL ALL INSULATION AS PER MANUFACTURERS RECOMMENDATIONS. ALL PIPE INSULATION SHALL COMPLY WITH 2020 FLORIDA BUILDING CODE – ENERGY CONSERVATION, 7TH EDITION.

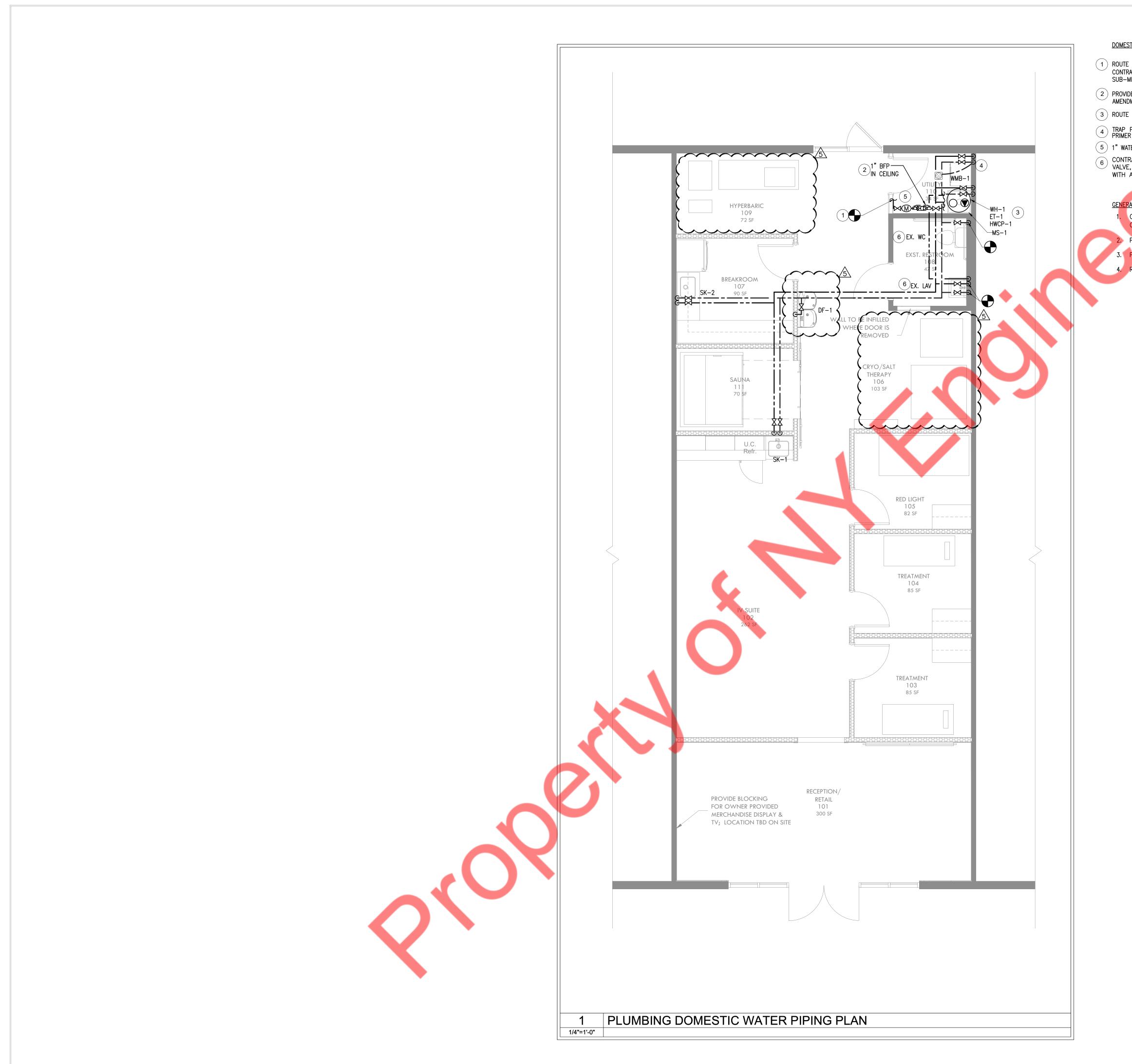
- 3. TESTING
- A. AT THE COMPLETION OF THE PLUMBING WORK, COMPLETELY TEST THE ENTIRE INSTALLATION OF ALL SYSTEMS FOR PROPER OPERATION AND COMPLIANCE WITH APPLICABLE CODES AND LOCAL REQUIREMENTS. CORRECT ALL DEFICIENCIES FOUND.
- B. TESTING OF THE INSTALLED SYSTEMS SHALL BE MADE BY THE CONTRACTOR IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNER.
- C. THE CONTRACTOR SHALL NOT COVER UP OR PERMANENTLY CONCEAL PIPING, DEVICES OR ANY PORTION OF NEWLY CONSTRUCTED PLUMBING SYSTEM(S) UNTIL SUCH SYSTEM, OR PORTION OF THE SYSTEM, HAS BEEN TESTED IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNER AND INSPECTED BY THE LOCAL INSPECTOR AND APPROVED IN WRITING, EXCEPT PIPING PASSING THROUGH FLOORS, WALLS, PARTITIONS, OR BEAMS, FOR DISTANCES EQUAL TO THE THICKNESS OF SUCH FLOOR, WALL, PARTITION OR BEAM.
- D. THIS CONTRACTOR SHALL NOTIFY THE VARIOUS DEPARTMENTS, BUREAUS AND INDIVIDUALS AT LEAST TWO WEEKS IN ADVANCE OF THE TIME THAT THE TESTS ARE TO BE CONDUCTED.
- E. ALL DEFECTIVE PARTS SHALL BE REPLACED OR CORRECTED BY THIS CONTRACTOR AND AN EXTRA TEST OR TESTS SHALL BE MADE UNTIL THE OPERATION IS SATISFACTORY. ALL ARRANGEMENTS AND EXPENSES NECESSARY TO CONDUCT ALL TESTS REQUIRED BY THESE SPECIFICATIONS AND THE VARIOUS AGENCIES HAVING JURISDICTION OVER THE WORK INSTALLED UNDER THIS CONTRACT SHALL BE MADE BY THIS CONTRACTOR. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THESE TESTS, THE COST THEREOF BEING INCLUDED IN THE LUMP SUM BID FOR THIS CONTRACT.

- F. WHERE ANY EVIDENCE OF STOPPAGE IS FOUND IN PIPING OR EQUIPMENT, THIS CONTRACTOR SHALL DISCONNECT, CLEAN, REPAIR AND RECONNECT ALL OBSTRUCTED PIPING OR EQUIPMENT AND SHALL ALSO PAY FOR ALL NECESSARY CUTTING AND REPAIRS TO ADJOINING WORK.
- G. ALL PIPING AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUT, OF DIRT, CUTTINGS, OILS AND OTHER FOREIGN SUBSTANCES AND SHALL BE LEFT CLEAN.
- H. ALL REQUIRED TESTS SHALL BE WITNESSED BY LOCAL AUTHORITIES AND THE OWNER'S REPRESENTATIVE.
- I. ALL EQUIPMENT WILL BE FACTORY TESTED.
- J. CONTRACTOR SHALL IDENTIFY TO THE OWNER'S REPRESENTATIVE ANY LEAKS OR DAMAGE THAT OCCURS AS A RESULT OF SYSTEM TESTING. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LIMIT ANY POTENTIAL DAMAGE. CORRECTIVE ACTION REQUIRED AS A RESULT OF TESTING SHALL BE PERFORMED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
- L. REPORT IN WRITING TO AUTHORITIES HAVING JURISDICTION, THE ARCHITECT AND THE OWNER THE RESULTS OF ALL TESTING.
- M. TESTING REQUIREMENTS
  - a. TEST ALL DOMESTIC WATER PIPING HYDROSTATICALLY TO 125 PSIG.b. HYDROSTATIC TEST PRESSURES SHALL REMAIN CONSTANT WITH
  - NO VARIATION FOR 120 MINUTES.
  - c. TESTS SHALL BE WITNESSED BY THE BUILDING ENGINEER.
    d. THE PLUMBING CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE DUE TO TEST FAILURES AND LEAKAGE IN THE TEST AREA AND ADJACENT TENANT OR ESB SPACES.
- N. REFILL ENTIRE POTABLE HOT AND COLD WATER SUPPLY SYSTEM WITH CHLORINE SOLUTION (HTH OLIN CHEMICAL CORP.) AT A STRENGTH TO MEET STANDARDS OF THE DEPARTMENT OF HEALTH, AND FOR A PERIOD OF RETENTION AS STIPULATED.
- O. THOROUGHLY FLUSH PIPING SYSTEM WITH FRESH WATER IMMEDIATELY PRIOR TO FINAL ACCEPTANCE.
- 4. WARRANTY

A. EQUIPMENT, MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL KEEP THE WORK IN GOOD REPAIR FOR ONE YEAR AFTER THE DATE OF FINAL APPROVAL. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROMPTLY CORRECT AND REPAIR ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT. ALL SETTLEMENTS OF SURFACES THAT MAY OCCUR WITHIN THAT PERIOD SHALL ALSO BE PROMPTLY REPAIRED.



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REVISION SCHEDULE         NO:       DATE:       DESCRIPTION:         00       03/27/2023       PERMIT SET         01       04/12/2023       ADDENDUM 1         03       08/02/2023       REGULATORY COMMENTS         04       09/06/2023       SERVICE UPDATE         05       10/26/2023       BULLETIN 2
THE COVERY WELLNESS SPA
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P1.1



### DOMESTIC WATER PIPING PLAN NOTES:

1 ROUTE NEW 1" CW PIPING WITH SHUT OFF VALVE AND TIE-INTO THE EXISTING WATER SERVICE. CONTRACTOR TO FIELD VERIFY THE SIZE, LOCATION, ROUTING, BACKFLOW PREVENTER AND WATER SUB-METER REQUIREMENTS IN FIELD WITH OWNER AND BASE BID ACCORDINGLY.

PROVIDE REDUCE PRESSURE ZONE BACKFLOW PREVENTER CONFORMING WITH ASSE1013 OR LOCAL CODE AMENDMENTS. PROVIDE DRAIN PAN & ROUTE DRAIN OUTLET TO THE NEAREST FUNNEL DRAIN.
 ROUTE T&P RELIEF TO DRAIN IN FUNNEL DRAIN.

4 TRAP PRIMER (TP-1) EXTEND AND CONNECT 1/2" TRAP PRIMER PIPING TO FLOOR DRAINS WITH TRAP PRIMER CONNECTIONS. COORDINATE ROUTING.
 5 1" WATER METER (PROVIDE IF REQUIRED). CONTRACTOR TO VERIFY WITH ARCHITECT/CLIENT PRIOR TO BID.

CONTRACTOR TO FILED VERIFY EXACT CONDITION OF EXISTING FIXTURE WITH ASSOCIATED VALVE, BRANCH PIPING AND REUSE IF IN GOOD CONDITION. REPLACE IF REQUIRED. CONFIRM WITH ARCHITECT/CLIENT PRIOR TO BID. REFER TO RISER DIAGRAM P-4.0.

# <u>GENERAL NOTES:</u>

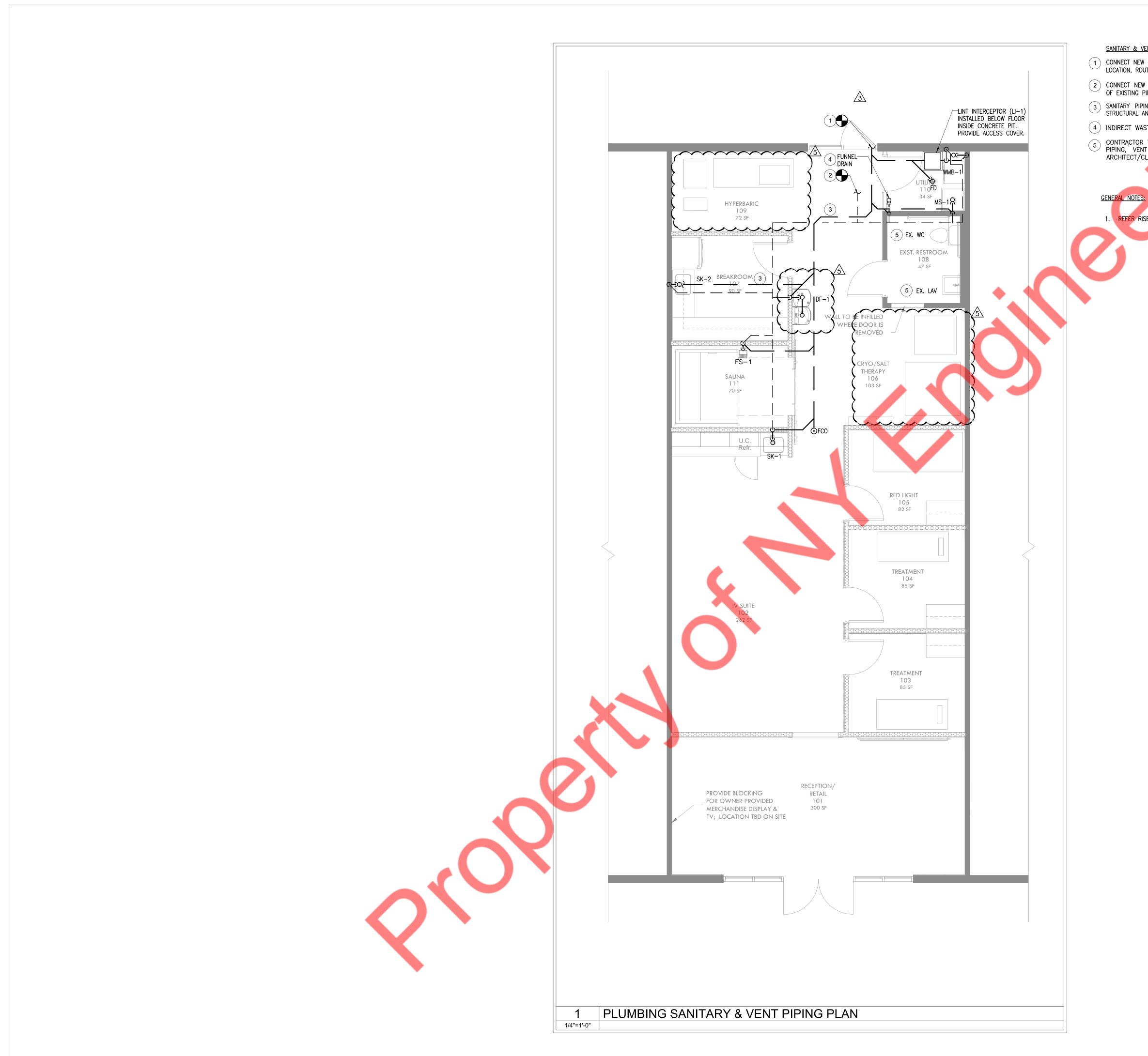
CW/HW PIPING TO BE PROVIDED WITH INSULATION AS PER 2020 FLORIDA BUILDING CODE ENERGY CONSERVATION, 7TH EDITION (REFER P1.0).

PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.

3. PROVIDE ACCESS PANELS FOR SHUT-OFF VALVES & WATER HEATER AS REQUIRED.

4. REFER RISER DIAGRAMS FOR ALL PIPE SIZES.

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THE COVERY WELLNESS SPA
RMA PROJECT NO: 21.128.10
PLUMBING DOMESTIC WATER PIPING PLAN
P2.0



SANITARY & VENT PIPING PLAN NOTES:

1 CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY PIPING. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, ROUTING AND INVERT OF EXISTING PIPING ON SITE.

2 CONNECT NEW 3" VENT PIPING TO EXISTING VENT PIPING. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, ROUTING OF EXISTING PIPING ON SITE.

3 SANITARY PIPING RUNNING UNDERGROUND SHOWN FOR REFERENCE. CONTRACTOR TO COORDINATE WITH EXISTING STRUCTURAL AND REROUTE AS REQUIRED TO AVOID ANY CONFLICTS AS PER FILED CONDITIONS.

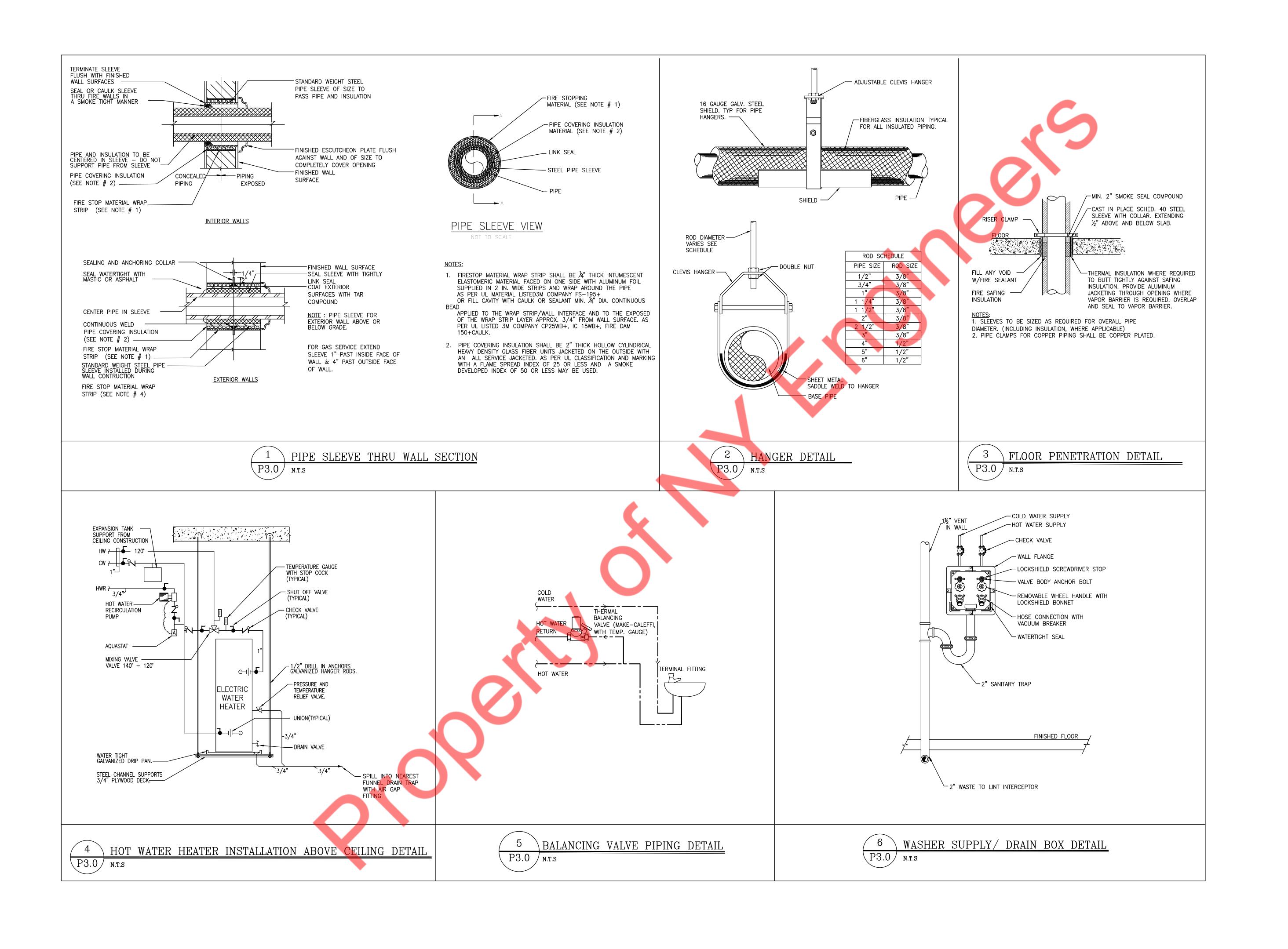
4 INDIRECT WASTE FROM RPZ BFP AND WATER HEATER TO SPILL INTO THE FUNNEL DRAIN.

5 CONTRACTOR TO FILED VERIFY EXACT CONDITION OF EXISTING FIXTURE WITH ASSOCIATED VALVE, SANITARY PIPING, VENT PIPING AND REUSE IF IN GOOD CONDITION. REPLACE IF REQUIRED. CONFIRM WITH ARCHITECT/CLIENT PRIOR TO BID. REFER TO RISER DIAGRAM P-4.0.

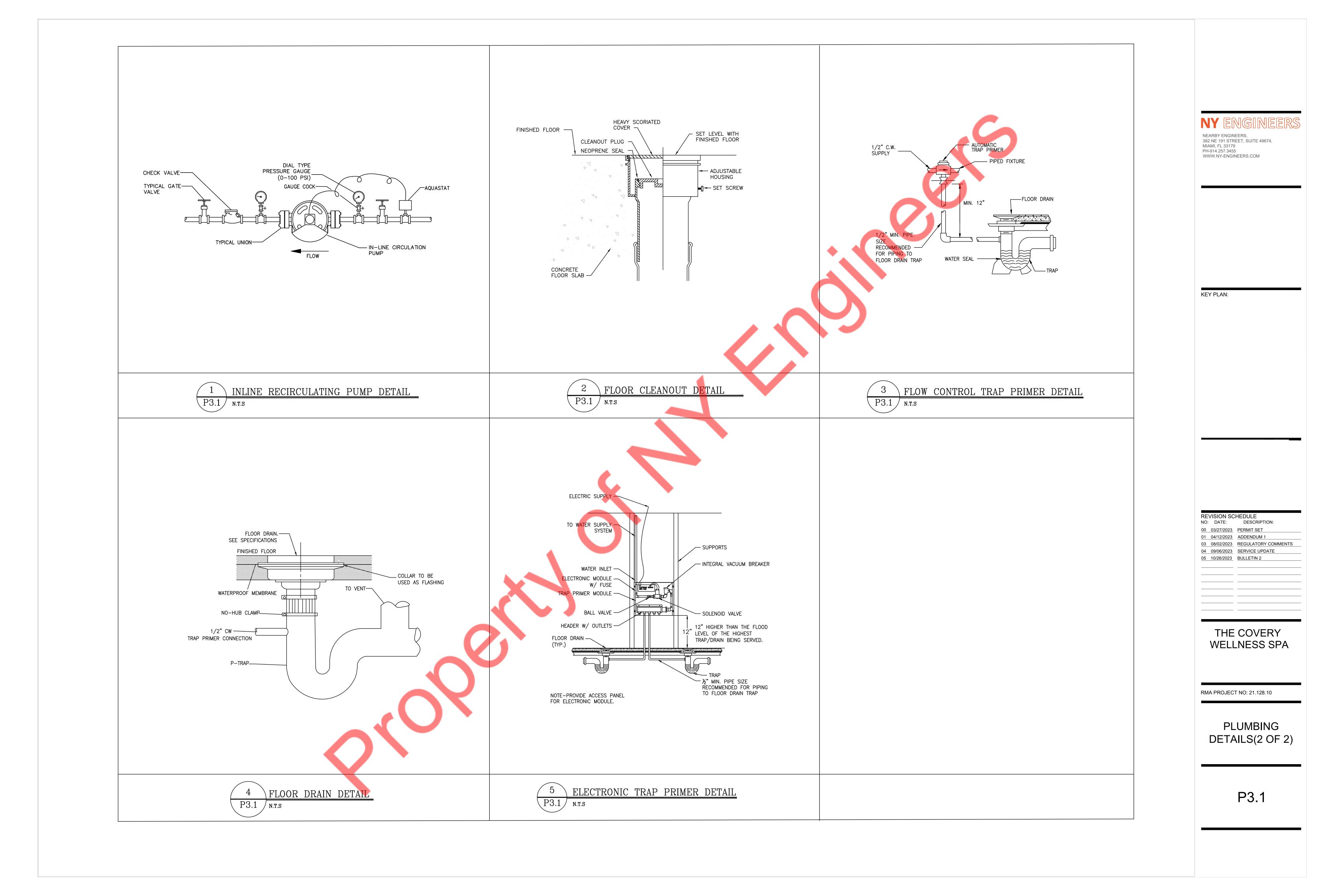
1. REFER RISER DIAGRAMS FOR ALL PIPE SIZES.

NY ENGINEER NEARBY ENGINEERS, 382 NE 191 STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM KEY PLAN: REVISION SCHEDULE NO: DATE: DESCRIPTION: 00 03/27/2023 PERMIT SET 01 04/12/2023 ADDENDUM 1 03 08/02/2023 REGULATORY COMMENTS 04 09/06/2023 SERVICE UPDATE 05 10/26/2023 BULLETIN 2 THE COVERY WELLNESS SPA RMA PROJECT NO: 21.128.10 PLUMBING SANITARY & VENT PIPING PLAN

P2.1



PH	AMI, FL 33179 -914.257.3455 VW.NY-ENGINEERS.COM
KE	Y PLAN:
	VISION SCHEDULE
NO: <u>00</u> <u>01</u>	VISION SCHEDULE DATE: DESCRIPTION: 03/27/2023 PERMIT SET 04/12/2023 ADDENDUM 1 08/02/2023 REGULATORY COMMENTS 09/06/2023 SERVICE UPDATE
NO: <u>00</u> <u>01</u> <u>03</u>	DATE:         DESCRIPTION:           03/27/2023         PERMIT SET           04/12/2023         ADDENDUM 1           08/02/2023         REGULATORY COMMENTS
NO: 00 01 03 04	DATE:         DESCRIPTION:           03/27/2023         PERMIT SET           04/12/2023         ADDENDUM 1           08/02/2023         REGULATORY COMMENTS           09/06/2023         SERVICE UPDATE
NO: 00 01 03 04	DATE:         DESCRIPTION:           03/27/2023         PERMIT SET           04/12/2023         ADDENDUM 1           08/02/2023         REGULATORY COMMENTS           09/06/2023         SERVICE UPDATE
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NO: 00 01 03 04 05 	DATE: DESCRIPTION: 03/27/2023 PERMIT SET 04/12/2023 ADDENDUM 1 08/02/2023 REGULATORY COMMENTS 09/06/2023 SERVICE UPDATE 10/26/2023 BULLETIN 2 
NO: 00 01 03 04 05 	DATE: DESCRIPTION: 03/27/2023 PERMIT SET 04/12/2023 ADDENDUM 1 08/02/2023 REGULATORY COMMENTS 09/06/2023 SERVICE UPDATE 10/26/2023 BULLETIN 2 



			PLUM	BING FIXTURES	& ROI	JGHING SIZIN	G						
LEGEND PLUMBING FIXTU	PLUMBING FIXTURE		C	CONNECTION SIZE - INCHES									
		MANUFACTURER	PRODUCT MODEL	FAUCET MANUFACTURER/MODEL	TRAP	SOIL/WASTE							
EX. WC	WATER CLOSET	EXISTING	EXISTING	EXISTING	_	EXISTING	E						
EX. LAV	LAVATORY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	E)						
DF-1	DRINKING FOUNTAIN	ELKAY	LZSTL8WSLK	_	1½"	1½"							
SK-1	SINK	ELKAY	ECTRU17179TC	LUXART AERRO A2418DE-PUBLM	2"	2"							
SK-2	SINK	ELKAY	ECTRU21179TC	LUXART AERRO A137E-BLM	2"	2"							
WMB-1	WASHER DRYER	GE APPLIANCES	GFQ14ESSNWW	_	2"	2"							
MS-1	MOP SINK	DRAINNET TECHNOLOGIES	9-0PC-84 / 9-0CP-84-300	_	3"	3"							
FS-1	FLOOR SINK	_	_	_	3"	3"							

NOTE: CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ALL FINAL PLUMBING FIXTURES SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.

							HOT WAT	ER HEATER WITH S	TORAC
TAG No.	QUANTITY	LOCATION	MAX. INPUT (KW/MBH)	UNIFORM ENERGY FACTOR	STORAGE WATER TEMP (°F)	STOR. CAP (GAL)	RECOVERY CAP. (GPH) @100° RISE	TYPE	Cł
WH-1	1	AS PER PLAN	8 KW	0.92	140	38	32	ELECTRIC STORAGE TYPE WATER HEATER (CEILING MOUNTED)	

										PU	MP SCHE	EDULE		
	TAG				PERFORMANCE DATA/PUMP			PUMP CONSTRUCTION DATA		MOTOR I				
		QUANTITY	SERVICE	LOCATION	GPM		WATER TEMP. (°F)	PUMP TYPE	MHP	STARTER TYPE	V/PH/HZ	RPM	WEIGHT (LBS)	MFGR MODEL
	HWCP-1	1	HWR	AS PER PLAN	2	8	120	INLINE, NORYL	39 WATTS	AQUA STAT	115/1/60	2800	9.0	BELL & GOS NBF-8S/

DRAIN ACCESSORIES & SCHEDULE																													
BODY															S	STRAI	NER												
DESIGNATION	REQUIRED	SERIES NO.	CAST IRON	GALVANIZED	ALL BRONZE	HIGH DENSITY POLYETHYLENE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	SUMP RECIEVER	FLASHING COLLAR	CAST IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE (ADJUSTABLE)	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	ST. STEEL	FUNNEL TOP	FLAT TOP	DOME	RAISED LIP	EXTENSION (WHERE REQUIRED)	LESS GRATE
FD	•	ZURN-Z505	•					•										•											

NOTES:

1. ALL FLOOR DRAINS IN FINISHED AREAS AND ALL ROOF DRAINS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.

 ALL FLOOR DRAINS IN MECHANICAL EQUIPMENT, ETC., SHALL BE LOCATED IN COORDINATION WITH THE MECHANICAL CONTRACTOR.  THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED ROOFING AND/OR WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
 PROVIDE ELECTRONIC TRAP PRIMER FOR MECHANICAL/TRASH ROOM FLOOR DRAINS & FUNNEL DRAIN. PROVIDE FLOW CON PRIMER FOR ALL OTHER ROOM FLOOR DRAINS.

4. THE TOP OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.

