

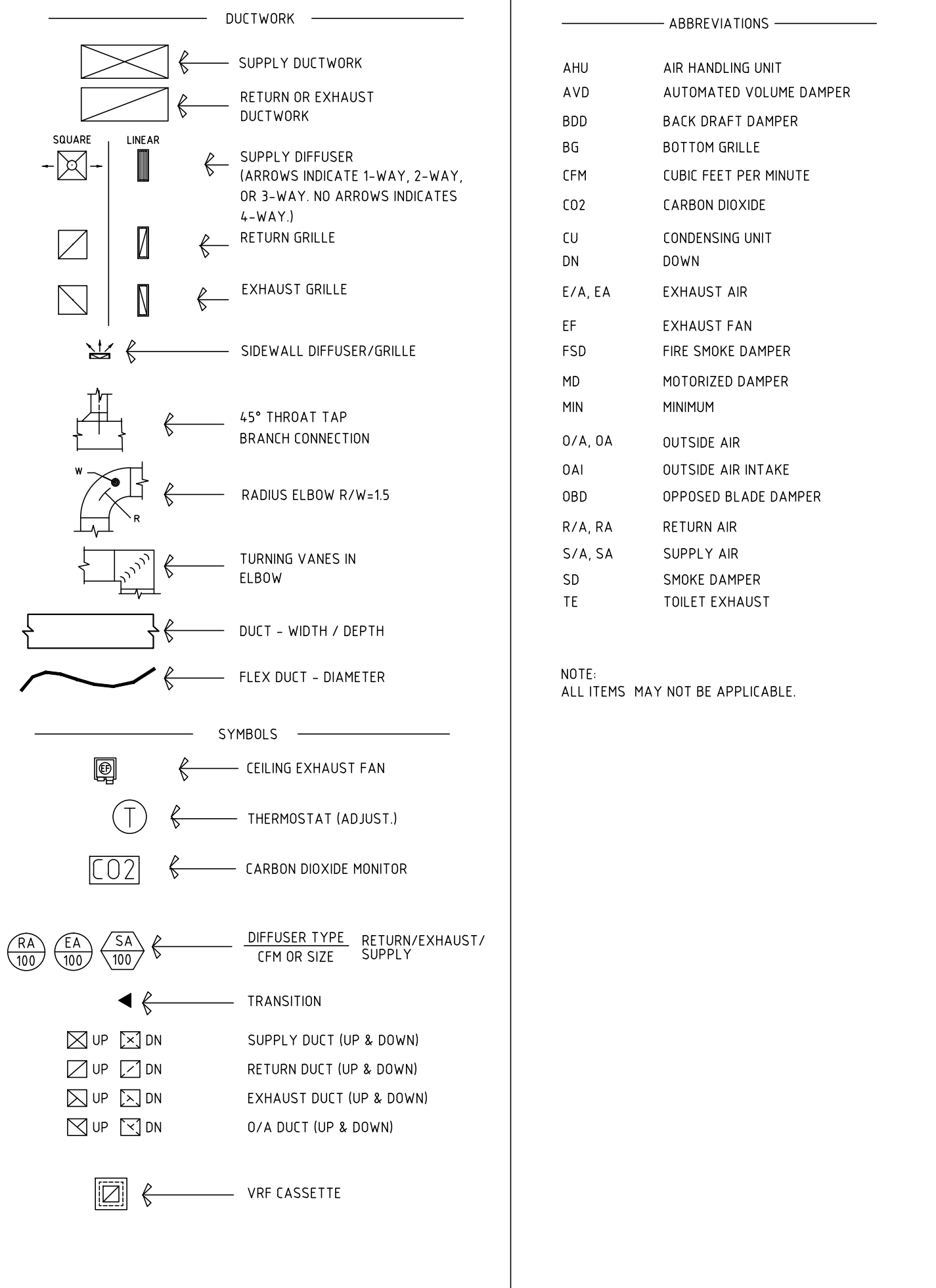
HVAC GENERAL NOTES

- HVAC DRAWINGS ARE DIAGRAMMATICAL IN NATURE DO NOT SCALE FOR EXACT LOCATIONS. THE AIR CONDITIONING CONTRACTOR SHALL INSTALL ALL NECESSARY OFFSETS, BENDS, AND TRANSITIONS AS REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIVE SYSTEM.
- DUE TO DRAWINGS BEING DIAGRAMMATICAL IN NATURE, RISERS AND DROPS ARE NOT SHOWN - CONTRACTOR SHALL INCLUDE THESE IN THE BID. WHERE POSSIBLE ALL RISERS AND DROPS SHALL BE CONSTRUCTED USING 45 DEGREE OR LONG RADIUS ELBOWS.
- PROVIDE AND INSTALL NECESSARY DUCTWORK TRANSITIONS AND PIPING INCREASERS/REDUCERS AS REQUIRED FOR EQUIPMENT CONNECTIONS. CONSULT MANUFACTURER'S DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTIONS SIZES, INCLUDING, BUT NOT LIMITED TO THOSE SHOWN.
- IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO THAT DELIVERY WILL NOT INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS.
- ALL DIMENSIONS ARE IN PHYSICAL UNITS OF INCHES UNLESS OTHERWISE NOTED.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF DUCT SIZE CHANGES ARE REQUIRED BECAUSE OF EXISTING CONDITIONS.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, TESTS, AND ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- AFTER BID SELECTION AND PRIOR TO COMMENCEMENT OF WORK, THE AIR CONDITIONING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DUCT WORK, EXHAUST FANS, AIR DEVICES, AND EQUIPMENT AS STATED ON SCHEDULES AND OR NOTES. AHRI CERTIFICATES FOR ALL EQUIPMENT SHALL BE INCLUDED IN THE SUBMITTAL PACKAGE. IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IS NOT AS SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO THE ENGINEER THAT THE PROPOSED SUBSTITUTION IS EQUAL AND WILL FIT ALLOCATED SPACE.
- LOCATION OF AIR CONDITIONING DUCTS AND AIR DEVICES MAY CHANGE. VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES.
- PROVIDE MANUAL VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND GRILLES AND TO ALL LOW PRESSURE BRANCH DUCTS TO REHEAT COILS. PROVIDE DAMPERS AS CLOSE AS POSSIBLE TO BRANCH CONNECTION TO MAIN. SEE DIFFUSER AND GRILLE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- NO PIPING, DUCTWORK, OR CONDUIT SHALL BE INSTALLED UNLESS IT IS COORDINATED WITH ALL OTHER TRADES AFFECTED. PROVIDE ALL OFFSETS REQUIRED TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING CONDITIONS AND WITH THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN.
- DO NOT BLOCK TUBE PULL OR SERVICE SPACE ON EQUIPMENT WITH PIPING, DUCTWORK, ETC. (FLANGED OR REMOVABLE SECTIONS MAY BE USED IN SOME INSTANCES WHERE TIGHT CLEARANCES EXISTS).
- IF NO SIZE IS SHOWN FOR DUCT SERVING DIFFUSER OR GRILLES, USE SIZE SHOWN ON DIFFUSER AND GRILLE SCHEDULE.
- DUCTWORK ROUTED PARALLEL TO A WALL, RATED OR CORRIDOR SHALL BE INSTALLED WITH MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS. CONTRACTOR SHALL PROVIDE 12" CLEARANCE WHERE POSSIBLE, COORDINATE.
- REFER TO DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- PROVIDE TEMPORARY FILTERS ON ALL RETURN AIR GRILLES AND TRANSFER OPENINGS IN THE WORK AREA.
- INSTALL AHU CONTROL PANELS TO PROVIDE FOR 3'-0" MIN. CLEARANCE IN FRONT OF PANEL.
- UNLESS OTHERWISE NOTED ON PLANS, LOW RETURN AIR GRILLES AND LOW EXHAUST GRILLES SHALL BE 6" TO 8" A.F.F. TO BOTTOM OF GRILLE.
- ALL DIFFUSERS IN SAME SPACE SHALL HAVE THE SAME FULL FACE SIZE USING LARGEST SIZE REQUIRED FROM DIFFUSER AND GRILLE SCHEDULE.
- PROVIDE CLEAR ACCESS TO FIRE DAMPERS, SMOKE DAMPERS, AND VALVES.
- ALL WORK SHALL BE PERFORMED BY A LICENSED AIR CONDITIONING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES AND ORDINANCES.
- THE AIR CONDITIONING CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE PERFORMANCE OF WORK.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE PLUMBING CONTRACTOR SHALL RUN ALL CONDENSATE DRAINS PER PLUMBING SPECIFICATIONS. (SEE PLUMBING SHEETS)
- COMBUSTIBLE PIPING IS NOT PERMITTED IN RETURN AIR PLENUMS OR CEILING SPACES USED FOR RETURN AIR.
- THE AIR CONDITIONING CONTRACTOR SHALL USE RADIUS TURNS WITH A 15 CENTERLINE TO WIDTH RATIO (15 R/W). VANED ELBOWS, SPLITTER DAMPERS WHERE INDICATED, VOLUME CONTROLS IN ALL BRANCH LINES AND SUPPLY AND RETURN AIR DEVICES UNLESS (OTHERWISE NOTED IN AIR DEVICE SCHEDULE).
- THE AIR CONDITIONING CONTRACTOR SHALL SEAL ALL DUCTS IN AN APPROVED MANNER TO INSURE AGAINST LEAKAGE.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY CONFLICTS IN LOCATIONS FOR DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC. IN ORDER TO NOT INTERFERE WITH THE PROGRESS OF CONSTRUCTION.
- THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT, EXCEPT FOR EXHAUST HOODS.
- NOT USED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL (UL) WHERE APPLICABLE.
- THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE ALL CONTRACTORS, STARTERS, RELAYS, AND THERMOSTATS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS, POWER WIRING AND CONTROL WIRING, UNLESS NOTED OTHERWISE.
- THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE 1" THICK MERV 8 (THROW-AWAY TYPE) FILTERS WITH EACH A/C UNIT (UOI).
- ALL PENETRATIONS OF FIRE-RATED WALLS, FLOORS OR CEILINGS SHALL BE FIREPROOFED BY A SEALING METHOD AND RATING AS SPECIFIED ON THE DRAWINGS OR AS REQUIRED BY THE LOCAL OR STATE CODES.
- AIR HANDLING DEVICES IN EXCESS OF 2000 CFM WILL HAVE A DUCT SMOKE DETECTOR TO STOP THE FAN AND ACTIVATE A HORN AND STROBE LIGHT. ALL EQUIPMENT SHALL BE INTERLOCKED AS REQUIRED BY LOCAL CODES OR FIRE SAFETY OFFICIALS.
- ALL WORK SHALL COMPLY WITH BASE BUILDING LIFE SAFETY/SMOKE CONTROL SYSTEM REQUIREMENTS. PROVIDE ALL NECESSARY WIRING, CONTRACTORS, RELAYS, ETC., AS REQUIRED FOR INTERFACE WITH BASE BUILDING SYSTEM.
- THE AIR CONDITIONING CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS BUILT DRAWINGS TO THE ENGINEER UPON COMPLETION OF INSTALLATION. IF FIELD CHANGES ARE MADE WHICH DEVIATE FROM ENGINEERING DRAWINGS TO THE EXTENT THAT THE BUILDING DEPARTMENT REQUIRES THESE CHANGES BE INCORPORATED PRIOR TO INSPECTION, THE CONTRACTOR SHALL PROVIDE SKETCHES TO THE ENGINEER FOR INCORPORATION INTO THE BUILDING PLANS. ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- AIR CONDITIONING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, AND ALL GUARANTEES AND WARRANTIES SHALL BE DELIVERED TO THE OWNER. COMPRESSORS SHALL HAVE EXTENDED FIVE YEAR WARRANTIES.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE ACTUAL EQUIPMENT BEING FURNISHED.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE HVHZ WIND-LOAD RATED WITH SIGNED AND SEALED DOCUMENTS / DRAWINGS FROM AN INDEPENDENT LICENSED FLORIDA PROFESSIONAL ENGINEER.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED ON CURBS OR STANDS, CURBS AND STANDS SHALL BE FLORIDA PRODUCT APPROVED OR MIAMI DADE PRODUCT APPROVED WITH CURRENT NOTICE OF ACCEPTANCE (NOA). CURBS AND STANDS SHALL BE ATTACHED TO THE ROOF STRUCTURE AND THE EQUIPMENT SHALL BE ATTACHED TO THE CURB OR STAND IN ACCORDANCE WITH THE NOA DOCUMENTS.
- IF ANY CONFLICTS OR DISCREPANCIES APPEAR IN THESE DRAWINGS, THE MORE STRINGENT OF THE REQUIREMENTS ARE TO BE TAKEN.

CONTRACTOR GENERAL CONDITIONS NOTES

- RFI'S: CONTRACTOR SHALL SUBMIT RFI'S WITH HIS PROPOSED SOLUTION IN A TIMELY MANNER. CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO 5 WORKING DAYS TO RESPOND.
- SUBMITTALS AND PRODUCT DATA: CONTRACTOR SHALL PREPARE A SUBMITTAL SCHEDULE FOR APPROVAL BY THE A/E. CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO 10 WORKING DAYS TO REVIEW SUBMISSIONS. ALL SUBMITTALS, PRODUCT DATA, SHALL BE CLEARLY STAMPED AND INDICATED APPROVED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT.
- SHOP DRAWINGS: CONTRACTOR SHALL PREPARE A SHOP DRAWING SCHEDULE FOR APPROVAL BY THE A/E. CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO 10 WORKING DAYS TO REVIEW SHOP DRAWINGS. ALL SHOP DRAWINGS, SHALL BE CLEARLY STAMPED AND INDICATED APPROVED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT.
- LAYOUT AND COORDINATION DRAWINGS: CONTRACTOR SHALL PREPARE SCALED COMPREHENSIVE COORDINATED LAYOUT DRAWINGS, PROVIDE SECTIONS, GENERAL ARRANGEMENTS, ELEVATIONS INCLUDING ALL DISCIPLINES FOR HIS PROPOSED LAYOUT AND ROUTING PRIOR TO FABRICATION. SUBMIT TO OWNER AND A/E FOR REVIEW AND GENERAL CONFORMANCE. PROVIDE DRAWINGS THAT DEMONSTRATE VIA COORDINATED ELEMENTS AND SYSTEMS WITH STRUCTURE THAT CLEARLY INDICATE PROPOSED SYSTEMS WILL FIT, FUNCTION AS INTENDED, BE FREE OF INTERFERENCES AND CONFORM TO REQUIRED CODE AND MANUFACTURER WORKING AND MAINTENANCE CLEARANCES.
- DEVIATIONS FROM BASIS FOR DESIGN SYSTEMS SHALL BE CLEARLY IDENTIFIED ON ALL SUBMISSIONS.
- SUBSTITUTIONS:
 - CONTRACTOR SHALL PREPARE REQUESTS WITH COMPLETE COORDINATION INFORMATION, INCLUDE ALL CHANGES REQUIRED IN OTHER ELEMENTS OF THE WORK TO ACCOMMODATE THE SUBSTITUTION INCLUDING WORK PERFORMED BY THE OWNER AND THE SEPARATE CONTRACTORS.
 - PROVIDE COMPLETE SUPPORTING DATA QUALIFYING THE SUBSTITUTION COMPARED TO THE BASIS OF DESIGN SYSTEM. PROVIDE A DETAILED LIST OF ANY VARIANCES, PHYSICAL OR SPATIAL LAYOUTS, ELEVATIONS, ETC. TO THE BASIS OF DESIGN.
 - PROVIDE A STATEMENT INDICATING THE EFFECT THE SUBSTITUTION WILL HAVE ON THE WORK SCHEDULE IN COMPARISON TO THE SCHEDULE WITHOUT APPROVAL OF THE PROPOSED SUBSTITUTION, INCLUDE INFORMATION REGARDING THE EFFECT OF THE PROPOSED SUBSTITUTION ON THE CONTRACT TIME.
 - PROVIDE CERTIFICATION BY THE CONTRACTOR TO THE EFFECT THAT, IN THE CONTRACTOR'S OPTION, AFTER THOROUGH EVALUATION, THE PROPOSED SUBSTITUTION WILL RESULT IN WORK THAT IN EVERY SIGNIFICANT RESPECT IS EQUAL TO OR BETTER THAN THE WORK REQUIRED BY THE CONTRACTOR DOCUMENTS AND THAT IT WILL PERFORM ADEQUATELY IN THE APPLICATION INDICATED.
 - CONSULTANT'S EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR OR APPROVED BY THE OWNER SHALL BE COMPENSATED TO THE CONSULTANT BY THE CONTRACTOR.
- AS-BUILT DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AND PREPARE A COMPLETE AND ACCURATE SET OF AS-BUILTS DURING THE PROJECT AND ISSUE TO THE A/E AND OWNER AT PROJECT CLOSEOUT. DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL ISSUE SKETCHES OR SCALED DRAWINGS FOR FIELD CHANGES THAT ARE PROPOSED OR MADE WHICH VARY FROM THE BASIS OF DESIGN. CONSULTANT EXPENSES THAT ARE INCURRED DUE TO SERVICES OR REVISIONS REQUIRED BY BUILDING DEPARTMENT, OWNER, CONTRACTOR, AND MANUFACTURER SHALL BE COMPENSABLE TO THE CONSULTANT BY THE CONTRACTOR.
- INSTALLATION, TESTING AND BALANCING, START UP, COMMISSIONING AND PERFORMANCE TROUBLESHOOTING OF SYSTEMS: CONTRACTOR RECOGNIZES HE IS SOLELY RESPONSIBLE FOR PERFORMANCE AND COMPLETION OF THESE SERVICES AS PART OF THE PROJECT REQUIREMENTS. DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL DOCUMENT THE SERVICES COMPLETED TO THE OWNER AND A/E. CONSULTANT EXPENSES THAT ARE INCURRED DUE TO SUPPORTING SERVICES OR REVISIONS REQUIRED BY BUILDING DEPARTMENT, OWNER, CONTRACTOR, AND MANUFACTURER SHALL BE COMPENSABLE TO THE CONSULTANT BY THE CONTRACTOR.

HVAC LEGEND



SCOPE OF WORK

THIS PROJECT IS NEW CONSTRUCTION OF A 24,560 SQ. FT. TWO-LEVEL EARLY CHILDHOOD LEARNING FACILITY. WORK SHALL INCLUDE BUT IS NOT LIMITED TO NEW VARIABLE REFRIGERANT FLOW SPLIT SYSTEMS, DEDICATED OUTDOOR AIR SYSTEMS WITH ENERGY RECOVERY, COMMERCIAL KITCHEN SYSTEMS AND CLASSROOM EXHAUST PURGE SYSTEMS.

COMMISSIONING REQUIREMENTS

- THIS PROJECT REQUIRES COMMISSIONING AS REQUIRED BY THE FLORIDA BUILDING CODE FBC (ENERGY) SECTION C408.
- COMMISSIONING IS A PROCESS USED TO ENSURE A FACILITY FUNCTIONS AS INTENDED BY THE CONTRACT DOCUMENTS. THE PROCESS PROVIDES ASSURANCE THAT ALL BUILDING SYSTEMS HAVE BEEN OPERATED THROUGHOUT THEIR RANGE OF INTENDED OPERATION AND ANTICIPATED FAILURES HAVE BEEN INITIATED TO VERIFY CORRECT OPERATION IN FAILURE MODES.
 - COMMISSIONING REQUIRES COOPERATION AND DIRECT INVOLVEMENT OF THE SUBCONTRACTORS DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL SCHEDULE ALL COMMISSIONING ACTIVITIES, OPERATIONAL CHECK-OUT, TESTING AND ADJUSTMENTS PRIOR TO SUBSTANTIAL COMPLETION.
 - IN ADDITION TO FULFILLING SCHEDULING AND PLANNING REQUIREMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND DEMONSTRATING EQUIPMENT AND SYSTEM INSTALLATION AS WELL AS OPERATIONAL VERIFICATION FOR ALL SYSTEMS AND ASSEMBLIES AS REQUIRED PER CODE. THIS INCLUDES A DEMONSTRATION VERIFICATION OF ALL SYSTEM INTEGRATION IN THE FACILITY. THE COST FOR THIS WORK SHALL BE SHOWN AS A SEPARATE LINE ON THE CONTRACTOR'S SCHEDULE OF VALUES.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMMISSIONING RESPONSIBILITIES.
 - THE CONTRACTOR SHALL ASSIGN AN INDIVIDUAL TO ACT AS THE CONTRACTOR'S COMMISSIONING COORDINATOR. SUBMIT QUALIFICATIONS DEMONSTRATING TECHNICAL EXPERTISE OF THE COORDINATOR TO THE OWNER FOR APPROVAL. THIS INDIVIDUAL MAY HAVE ADDITIONAL DUTIES SUCH AS MEP COORDINATOR, BUT NOT PROJECT MANAGER OR SUPERINTENDENT. IF THE CONTRACTOR ELECTS TO OUTSOURCE COMMISSIONING RESPONSIBILITIES, THE OWNER MUST APPROVE THE AGENT.
 - THE CONTRACTOR SHALL OUTSOURCE THE SERVICES OF THE COMMISSIONING AUTHORITY (CXA). THE CXA SHALL BE A CERTIFIED COMMISSIONING AUTHORITY BY ASHRAE, OR AABC. SUBMIT CERTIFICATIONS AND QUALIFICATIONS DEMONSTRATING TECHNICAL EXPERTISE TO THE OWNER FOR APPROVAL. IN ADDITION, THE CONTRACTOR SHALL SUBMIT THE CXA'S PRELIMINARY COMMISSIONING PLAN TO THE OWNER FOR REVIEW AND APPROVAL.
- TWO WEEKS PRIOR TO PASSING FINAL MECHANICAL/ELECTRICAL INSPECTIONS, THE CONTRACTOR SHALL SUBMIT ALL COMPLETED COMMISSIONING DOCUMENTS TO THE REGISTERED DESIGN PROFESSIONAL PROVIDING EVIDENCE OF MECHANICAL/ELECTRICAL SYSTEMS COMMISSIONING IN ACCORDANCE WITH THE REQUIREMENTS OF THE FBC (ENERGY) C408.
 - THE CONTRACTOR'S COMMISSIONING AGENT SHALL PROVIDE THE FOLLOWING:
 - WRITE FINAL COMMISSIONING PLAN
 - VERIFY NECESSARY BALANCING REQUIREMENT ARE INCLUDED IN THE CONSTRUCTION DOCUMENTS
 - VERIFY DESIGN ALLOWS FOR PROPER BALANCING
 - WRITE FUNCTIONAL PERFORMANCE TESTS (FPTS) AND VERIFY CONTROLS ARE CALIBRATED. UNITARY SYSTEMS SUCH AS PACKAGED UNITS AND SPLIT SYSTEMS DO NOT REQUIRE FUNCTIONAL TESTING, ONLY VERIFICATION OF CONTROLS AND CALIBRATION.
 - WITNESS FPTS
 - WRITE PRELIMINARY COMMISSIONING REPORT
 - VERIFY THAT CONSTRUCTION DOCUMENTS REQUIRE ALL INFORMATION NEEDED TO ASSEMBLE THE SYSTEM MANUALS
 - ASSEMBLE SYSTEM MANUALS
 - REVIEW AND VERIFY SYSTEM BALANCING HAS BEEN PERFORMED AND REVIEW REPORT
 - ASSEMBLE FUNCTIONAL TEST REPORTS AND WRITE FINAL REPORT
 - VERIFY INSTALLATION AND PERFORMANCE OF LIGHTING CONTROLS

DESIGN CRITERIA

ROOF INSULATION R-VALUE	11
WALL INSULATION R-VALUE	5
FLOOR INSULATION R-VALUE	-
WINDOW U-VALUE	.98
WINDOW SHGC	.64

FLOOD PLAIN NOTES

- ALL CONSTRUCTION BELOW FLOOD ELEVATION SHALL BE FLOOD RESISTANT IN ACCORDANCE WITH FEMA TECHNICAL BULLETIN 2-2008 (I.E. WALLS, FINISHES, DOORS, FRAMES, BASE BOARD FOR GARAGE, STORAGE AREAS).
- ALL BUILDING OPENINGS FOR AIR INTAKE OR EXHAUST SHALL BE ABOVE THE BASE FLOOD ELEVATION (BFE) PER FEMA RECORD AT TIME OF PERMIT APPROVAL.
- ALL UTILITIES AND EQUIPMENTS AND ACCESSORIES (ELECTRICAL, MECHANICAL AND PLUMBING) SERVICING THE BUILDING SHALL BE INSTALLED ABOVE THE BFE. (ASCE 24-05 CH. 7.0).

MECHANICAL SHEET INDEX

SHEET #	DESCRIPTION
M0.1	GENERAL NOTES, LEGENDS & O/A CALC
M0.2	MECHANICAL SCHEDULES
M0.3	MECHANICAL SCHEDULES
M1.1	1ST FLOOR MECHANICAL PLAN
M1.2	2ND FLOOR MECHANICAL PLAN
M1.3	MECHANICAL ROOF PLAN
M3.1	CONTROLS DIAGRAMS
M5.1	MECHANICAL DETAILS
M5.2	MECHANICAL DETAILS
M6.1	MECHANICAL SPECIFICATIONS
M6.2	MECHANICAL SPECIFICATIONS

207 SIXTH STREET
WEST PALM BEACH, FLORIDA 33401
PH: 561.684.6844 • gliddenspina.com
FL Lic # AB000297



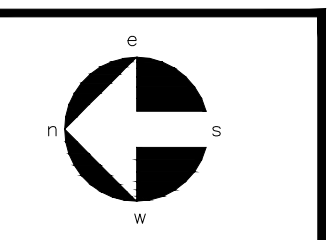
Architecture • Interior Design
Keith M. Spina # AB13419

New Building For:
OPPORTUNITY INC.
EARLY LEARNING CENTER
4171 Westgate Avenue
Palm Beach County, Florida

THESE DRAWINGS ARE FOR THE EXCLUSIVE USE OF GLIDDENSPINA + PARTNERS, INC. AND MAY NOT BE DUPLICATED, REPRODUCED OR TRANSMITTED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF GLIDDENSPINA + PARTNERS, INC. ALL RIGHTS RESERVED.

Revisions:

Project no: 15435
Date: 09.09.16
Drawn by: RB/SKJS
Project Architect: BJ



M0.1

09.09.16 BID/PERMIT

PERMIT / BID SET: 09/07/16



700 WEST HILLSBORO BLVD. - BLDG. #1, SUITE 204
DEERFIELD BEACH, FLORIDA 33441
TEL: (561) 391-9292 FAX: (561) 391-9898
CERTIFICATE OF AUTHORIZATION NO. 28107
LIRELLA IARRATE, P.E. LICENSE #73132
STEPHEN F. ROLLIN, P.E. LICENSE #36428
DONALD H. AUSTIN, JR., PE LICENSE #60651
JASON BARBER, P.E. LICENSE #72050
E-MAIL: INFO@FAECONULTING.COM
DESIGNED BY: BJ/SKJS PM: BJ P/N 15434

PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

GENERAL NOTES, LEGENDS & O/A CALC