

SPECIFICATIONS

15000 GENERAL

- A. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR COMPLETE AND OPERATING MECHANICAL SYSTEMS.
- B. MEET THE REQUIREMENTS OF THE FLORIDA MECHANICAL CODE 2004, FLORIDA PLUMBING CODE 2004, NFPA AND LOCAL BUILDING INSPECTORS. AIR CONDITIONING UNITS SHALL BE UL LISTED AND ARI RATED.
- C. THE SPACE ABOVE THE SUSPENDED CEILING IS DEFINED AS A PLENUM CHAMBER SPACE AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2004. ALL MATERIALS USED FOR COVERINGS, LININGS, INCLUDING ADHESIVES WHEN USED SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50.
- D. CONTRACTOR SHALL PROVIDE A ONE-YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND LABOR FROM THE DATE OF SUBSTANTIAL COMPLETION. GUARANTEE SHALL COVER ALL LABOR AND MATERIALS TO REPLACE DEFECTIVE MATERIALS AND TO ENSURE PROPER OPERATION OF ALL SYSTEMS.
- E. THIS CONTRACTOR SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL, AND GENERAL GRADE WORK CURRENTLY EXISTING AND WORK WHICH MAY BE INSTALLED PRIOR TO CONTRACT AWARD. RELOCATION OF DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED TO AVOID THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- F. VERIFY ALL MEASUREMENTS AT THE BUILDING SITE BEFORE STARTING ANY FABRICATION OR DOING ANY WORK IN THE FIELD. MAKE MEASUREMENT CORRECTIONS TO RESOLVE ANY CONFLICTS OF SPACE WITH OTHER TRADES.
- G. WHERE THE WORK OF TWO OR MORE TRADES INTERFERE WITH EACH OTHER AND A DEVIATION FROM DESIGN IS NECESSARY, NEITHER WORK SHALL PROCEED UNTIL THE OWNER HAS BEEN NOTIFIED OF THE CONFLICT AND THEY HAVE RENDERED A DECISION AS TO WHAT CHANGES SHOULD BE MADE. COORDINATE CONSTRUCTION SEQUENCE WITH THE CONSTRUCTION SUPERINTENDENT. COORDINATE EQUIPMENT FRAME SIZES, OPENING SIZES, AND LOCATIONS.
- H. COORDINATE CONSTRUCTION SEQUENCE WITH THE CONSTRUCTION SUPERINTENDENT.
- I. COORDINATE EQUIPMENT FRAME SIZES, OPENING SIZES, AND LOCATIONS.
- J. COORDINATE DUCT AND PIPE LOCATIONS AND CLEARANCES WITH THE BUILDING CONDITIONS AND OTHER TRADES. ADJUST DUCT SIZES AND LOCATIONS TO AVOID CONFLICTS. OBTAIN APPROVAL OF CHANGES FROM THE CONSTRUCTION SUPERINTENDENT. CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST.
- K. MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH PROPER CLEARANCES FOR SERVICING OF EQUIPMENT. INSTALLATION OF THE EQUIPMENT SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND CLEARANCE REQUIREMENTS.
- L. VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
- M. ERRORS OR OMISSIONS, WHEN THE INTENT OF ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CASUALTY OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL, WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- N. PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL PLANS BEFORE SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELVES WITH THE PLANS.

15002 SCOPE OF WORK

- A. THE BIDDING OF THIS WORK WILL COMPLEMENT THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATIVE TO THE SPECIFIED MATERIALS AND EQUIPMENT, WITH ARCHITECT/ENGINEER APPROVAL.
- B. RECEIVE, UNLOAD, AND RIG IN PLACE ALL EQUIPMENT. COORDINATE DELIVERY OF EQUIPMENT WITH THE CONSTRUCTION SEQUENCE.
- C. PROVIDE CONDENSATE DRAIN PIPING ACCORDING TO CODE.
- D. PROVIDE ALL DUCTWORK, FLEXIBLE DUCTS, DIFFUSERS AND REGISTERS/GRILLES. INSULATED DUCTWORK AS SPECIFIED.
- E. PROVIDE CONTROLS, LOW VOLTAGE AND 120 VOLT CONTROL WIRING. POWER WIRING BY ELECTRICAL CONTRACTOR.
- F. TEST AND BALANCE SYSTEMS. SUBMIT REPORT TO ARCHITECT/ENGINEER.
- G. PROVIDE PROJECT CLOSE-OUT DOCUMENTS AS SPECIFIED.
- H. CUTTING AND PATCHING FOR ALL MECHANICAL WORK SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS AND OBTAIN APPROVAL FROM THE CONSTRUCTION SUPERINTENDENT BEFORE CUTTING ANY BUILDING MATERIALS.
- I. OBTAIN AND PAY FOR ALL MECHANICAL PERMITS, FEES, AND INSPECTIONS.

15075 MECHANICAL IDENTIFICATION

- A. ALL EQUIPMENT INCLUDING: AIR HANDLING UNITS (AHU), MAKE-UP AIR UNITS (MAU), ROOFTOP UNITS (RTU), AND FANS (EF) SHALL BE IDENTIFIED.
- B. USE LAMINATE ENGRAVED PLATES, BLACK GROUND WITH WHITE LETTERING USING SHEET METAL SCREWS.

15082 PIPING INSULATION

- A. COLD WATER: NONE
- B. HOT WATER: 1" FIBERGLASS WITH ALL SERVICE JACKET
- C. REFRIGERANT SUCTION: 3/4" ARMAFLEX
- D. CONDENSATE: 1/2" ARMAFLEX

15086 DUCT INSULATION

- A. ALUMINUM FOIL FACED, 2" THICK FIBERGLASS DUCT WRAP ON ALL SUPPLY, RETURN, OUTDOOR AIR INTAKE (OA) FROM THE CONNECTION AT THE MECHANICAL EQUIPMENT TO THE FLEXIBLE DUCT CONNECTION AT THE AIR DEVICE (ABOVE THE CEILING).
- B. 2" RIGID INSULATION ON ALL EXPOSED DUCTWORK, UNLESS NOTED OTHERWISE.
- C. SEAL ALL JOINTS VAPOR TIGHT USING GLASS FAB AND MASTIC PER FLORIDA MECHANICAL CODE 2004.
- D. FLEXIBLE DUCTS SHALL BE CLASS 1 FOR PLENUM USE, FACTORY-INSULATED WITH 2" THICK FIBERGLASS (R-6 MINIMUM) INSULATION FACED WITH REINFORCED FOIL VAPOR BARRIER. USE METAL STRAPS WITH STAINLESS STEEL CAM-TYPE FASTENERS.
- E. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS FOR AIRFLOW. ALLOW FOR DUCT LINER AS REQUIRED.
- F. EXHAUST DUCTS ARE NON-INSULATED SHEETMETAL, UNLESS NOTED OTHERWISE.
- G. INSULATE EXHAUST AND RELIEF DUCTWORK FROM THE POINT WHERE OUTSIDE AIR (OA) ENTERS THE SPACE TO A MINIMUM OF 10'-0" UPSTREAM OR DOWNSTREAM OF THE OUTSIDE OPENING.

15145 PLUMBING PIPING

- A. SANITARY PIPING BELOW GRADE:
 1. CAST IRON, ASTM A74, SERVICE WEIGHT, HUB & SPIGOT WITH COMPRESSION TYSICAL NEOPRENE GASKETS
 2. PVC, SCHEDULE 40, DRAIN WASTE AND VENT (DWV), WITH SOLVENT JOINTS
- B. SANITARY PIPING ABOVE GRADE:
 1. CAST IRON, CIPRI 301, SERVICE WEIGHT, HUBLESS WITH STAINLESS STEEL CLAMP NEOPRENE GASKETS
 2. PVC, SCHEDULE 40, DRAIN WASTE AND VENT (DWV), WITH SOLVENT JOINTS (EXCEPT IN RETURN PLENUM - USE CAST IRON)
- C. WATER PIPING BELOW GRADE:
 1. CPVC, SCHEDULE 40, IF APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION
- D. WATER PIPING ABOVE GRADE:
 1. CPVC, SCHEDULE 40, IF APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION
 2. SHUT OFF VALVE(S) - 2" AND SMALLER: BRONZE BALL VALVE EQUAL TO NIBCO MODEL S-580-70-86.
 3. SHUT OFF VALVE(S) - 2 1/2" AND LARGER: IRON GATE VALVE, BRONZE FITTED EQUAL TO NIBCO MODEL F-617-0.
- E. CONDENSATE PIPING:
 1. COPPER, ASTM B42, HARD DRAWN, TYPE L
 2. PITCH HORIZONTAL PIPING @ 1/4" PER FOOT IN DIRECTION OF FLOW
 3. PROVIDE TRAP AT EACH UNIT WITH DEPTH TO EXCEED UNIT SUCTION PRESSURE BY AT LEAST 1 1/2"
 4. PROVIDE CONDENSATE DRAINS FOR EACH ROOFTOP UNIT (RTU) SIZED AS FOLLOWS:
 - 1" UP TO 5-TONS
 - 1 1/2" UP TO 50-TONS
 - 2" UP TO 150-TONS
- F. PIPE HANGERS:
 1. METAL PIPING:
 - PIPE SIZE: 1/2" TO 1 1/4"; MAXIMUM SPACING 6'-6"
 - PIPE SIZE: 1 1/2" TO 6"; MAXIMUM SPACING 10'-0"
 2. PLASTIC PIPING:
 - MAXIMUM SPACING 6'-0"
- G. PIPE SUPPORTS:
 - THIS CONTRACTOR SHALL PROVIDE ALL BLOCKING IN STUD WALLS AS REQUIRED TO BRACE PIPING.
- H. DOMESTIC WATER PIPING DISINFECTION:
 - PROVIDE DISINFECTANT THROUGHOUT THE WATER SYSTEM TO OBTAIN 50mg/l RESIDUAL. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS. AFTER 24 HOURS, TEST RESIDUAL; IF LESS THAN 25mg/l, REPEAT TREATMENT. FLUSH DISINFECTANT FROM SYSTEM USING CLEAN WATER UNTIL DISCHARGE IS LESS THAN 1mg/l.

15146 PLUMBING SPECIALTIES

- A. FLOOR DRAINS, ROOF DRAINS AS SCHEDULED ON PLUMBING DRAWINGS.
- B. WALL HYDRANTS/HOSE BIBBS AS SCHEDULED ON PLUMBING DRAWINGS.
- C. WATER HAMMER ARRESTER EQUAL TO PDI; PROVIDE PDI'S AT EACH TOILET BLOCK WHETHER SHOWN ON DOMESTIC WATER RISERS ON NOT.
- D. BACKFLOW PREVENTERS AS SCHEDULED ON PLUMBING DRAWINGS.

SPECIFICATIONS

15186 REFRIGERANT PIPING

- A. PIPE: COPPER TYPE L, ACR PIPE
- B. CONNECTIONS: JOIN PIPING USING SILFLOSS FLUXLESS SOLDER UNDER NITROGEN PURGE. ENGINEER RESERVES THE RIGHT TO ASK THAT AT LEAST ON SOLDERED JOINT BE CUT OPEN FOR INSPECTION TO INSURE NO BLACK SCALE IS AT THE INTERIOR OF THE PIPING.

15410 PLUMBING FIXTURES

- A. PROVIDE PLUMBING FIXTURES AS SCHEDULED ON PLUMBING DRAWINGS.
- B. PROVIDE ALL CARRIERS FOR FIXTURES AS REQUIRED.
- C. PROVIDE ALL BLOCKING AS REQUIRED FOR ANY EQUIPMENT AS REQUIRED.

15430 PLUMBING EQUIPMENT

- A. PROVIDE PLUMBING EQUIPMENT SUCH AS WATER, HEATERS, ELECTRIC WATER COOLERS, ETC. AS SCHEDULED ON PLUMBING SHEETS.

15720 AIR HANDLING EQUIPMENT

- A. PROVIDE AIR HANDLING UNITS AS MANUFACTURED BY AAO, CARRIER, TRANE, YORK. McQUAY UNITS NOT APPROVED AT THIS TIME.
- B. PROVIDE AIR HANDLING UNITS WITH CAPACITY AS SCHEDULED ON MECHANICAL DRAWINGS.
- C. PROVIDE AIR FOIL, SUPPLY FAN, COOLING COIL SECTION WITH DRAIN PAN, 2" PRE-FILTERS AND 24" BAG FILTERS (85%). MIXING SECTION FOR OUTDOOR AIR (OA) AND RETURN AIR (RA).
- D. OUTDOOR AIR (OA) DAMPERS SHALL BE SIZED FOR 1,000 FEET PER MINUTE (FPM) BASED ON AIR HANDLING UNIT SCHEDULE.

15810 DUCTWORK

- A. LOW PRESSURE DUCTWORK SHALL BE GALVANIZED STEEL PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS. 1" WATER GAUGE (W.G.) SIZE DUCTWORK FOR 0.2" SP / 100 FOOT OF DUCT REINFORCEMENT. SEAL CONNECTIONS WITH REINFORCEMENT JOINT, CLOSURES, AND SEAMS AS REQUIRED BY SMACNA. MEET OR EXCEED SMACNA SHEET METAL THICKNESS.
 1. FABRICATED (STANDING S AND DRIVE CLEATS) AND SUPPORTED AS PER SMACNA.
 2. USED IN CONSTANT VOLUME SYSTEMS, DOWNSTREAM FROM VAV'S AND FFB'S ONLY (U.N.O.)
- B. MEDIUM PRESSURE DUCTWORK SHALL BE GALVANIZED STEEL PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS. 2" WATER GAUGE (W.G.) SIZE DUCTWORK FOR 0.2" SP / 100 FOOT VELOCITY LESS THAN 2,000 FEET PER MINUTE (FPM). DUCT CONSTRUCTION SHALL BE TDC OR DUCTMATE FLANGE SYSTEM. MEDIUM PRESSURE DUCTWORK IS FROM THE AIR HANDLING UNIT (AHU) OR ROOFTOP UNIT (RTU) DOWNSTREAM TO THE VAV'S OR FFB'S.
 1. FABRICATED (TDC OR DUCTMATE) AND SUPPORTED AS PER SMACNA "E".
 2. USED IN VARIABLE VOLUME SYSTEMS, DOWNSTREAM FROM AIR HANDLING UNIT (AHU) OR ROOFTOP UNIT (RTU) BEFORE VAV'S AND FFB'S ONLY (U.N.O.)
- C. PROVIDE SPIN-IN CONICAL TYPE ROUND TAKE-OFF(S) (MINIMUM 26 GAUGE) WITH 2" EXTENDED SHAFT/HANDLE MANUAL VOLUME DAMPER.
- D. HANGERS: SUPPORTS FROM THE BUILDING STRUCTURAL STEEL. DUCT HANGERS SHALL CONFORM TO SMACNA TABLE 4-4 USING STRAPS AT 8'-0" MAXIMUM SPACING. DO NOT HANG FROM METAL DECK OR JOIST BRACING. ALL HANGERS SHALL COMPLY WITH 2004 FLORIDA MECHANICAL AND ENERGY CODES.
- E. FITTINGS: PROVIDE 1 1/2" RADIUS TURN ELBOWS. PROVIDE TURNING VANES FOR ALL SQUARE ELBOWS PER SMACNA FIGURE 2-4. CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDED ANGLE OF DIVERGENCE OF 15 DEGREES.
- F. SEALANT: SEAL ALL JOINTS AND SEAMS WITH UL 181 CLASS 1 RATED SEALANT. INTERIOR DUCT SEALANT SHALL BE HARDCAST IRON GRIP #601 OR AN APPROVED SUBSTITUTE.
- G. FINAL CONNECTIONS TO DIFFUSERS MAY BE MADE WITH FLEXIBLE DUCTWORK, BUT ITS USE IS LIMITED TO STRAIGHT HORIZONTAL OR VERTICAL RUNS. ALL CHANGES OF DIRECTION IN A DUCT SYSTEM (GALVANIZED OR FLEXIBLE) SHALL BE MADE WITH AN APPROPRIATE GALVANIZED ELBOW. MAXIMUM LENGTH OF FLEXIBLE DUCT IS 5'-0"
- H. CONNECT FLEX DUCT TO METAL DUCTS WITH DRAW BANDS. MAXIMUM LENGTH OF FLEX TO DIFFUSER SHALL BE 5'-0"
- I. PROVIDE DUCT TRANSITION WHERE CONNECTION TO WALL LOUVERS, DUCT OUTLETS OR INLETS IS SMALLER THAN LOUVER FRAME. PROVIDE TRANSITION TO ROOFTOP UNIT AND AIR HANDLERS AS REQUIRED FOR DUCT MATCH-UP.
- J. DUCT SIZE SHOWN ON DESIGN DRAWINGS IS CLEAR INSIDE DIMENSIONS.

15820 DUCT ACCESSORIES

- A. PROVIDE AIR TURNING DEVICES IN ALL SQUARE ELBOWS WITH SHORT DIMENSIONS.
- B. PROVIDE DUCT ACCESS DOORS FOR FIRE DAMPERS FABRICATED AS PER SMACNA STANDARDS.
- C. PROVIDE FIRE DAMPERS, DYNAMIC CURTAIN TYPE OF GALVANIZED STEEL AS SCHEDULED ON MECHANICAL DRAWINGS.
- D. PROVIDE SPIN-IN FITTINGS FOR ALL LOW PRESSURE DUCTS USING CONICAL TAP AND 2" STAND-OFF QUADRANT HANDLES.
- E. PROVIDE FLEXIBLE DUCT CONNECTIONS USING FIRE RETARDANT NEOPRENE COATED WOVEN GLASS FIBER PER NFPA 90A. MINIMUM FABRIC WIDTH OF 3" MINIMUM METAL WIDTH OF 3"
- F. PROVIDE BALANCING DAMPERS WITHIN EXHAUST DUCT PRIOR TO GRILLE. DO NOT BALANCE SYSTEM WITH OPPOSED BLADE DAMPER IN GRILLE.

15835 POWER VENTILATORS

- A. PROVIDE FANS WITH CAPACITY AS SCHEDULED ON MECHANICAL DRAWINGS. ACCEPTABLE MANUFACTURER'S ARE: ACME, COOK, GREENHILL, TWIN CITIES. FAN VENTILATORS ARE NOT APPROVED.
- B. ALL CENTRIFUGAL ROOF EXHAUST FANS SHALL BE COMPLETE WITH BIRDSCREEN, BACK DRAFT DAMPER, DISCONNECT SWITCH AND ROOF CURB.
- C. ALL PROPELLER WALL EXHAUST FANS SHALL BE COMPLETE WITH WALL COLLAR OR SLEEVE, RAINHOOD, BIRDSCREEN, MOTOR GUARD, COMBINATION STARTER AND DISCONNECT SWITCH.

15850 DIFFUSERS, REGISTERS, AND GRILLES

- A. DIFFUSERS, REGISTERS, AND GRILLES BY METAL/AIRE, PRICE, OR TITUS.
- B. ALL CEILING DIFFUSERS SHALL BE STEEL LOUVERED FACE, UNLESS NOTED OTHERWISE.
- C. ALL DIFFUSERS SHALL BE 4-WAY, UNLESS NOTED OTHERWISE.
- D. RETURN AIR DEVICES SHALL BE LOUVERED BAR GRILLE.
- E. AIR DEVICES SHALL MATCH SCHEDULES ON MECHANICAL DRAWINGS.

15950 TEST AND BALANCE

- A. TEST AND BALANCE CONTRACTOR SHALL REVIEW ENGINEERING DRAWINGS AND JOB SITE PRIOR TO CEILING CLOSE UP. EACH ROOM RETURN AIR SHALL BE EXAMINED FOR A BALANCED PLENUM RETURN SYSTEM. (I.E. A CLEAR RETURN AIR PATH SHALL HAVE A VELOCITY NO GREATER THAN 400 FEET PER MINUTE (FPM) ACROSS THE RETURN AIR PATH). TEST AND BALANCE TECHNICIAN SHALL VERIFY THAT A RETURN AIR EXISTS FOR EVERY ROOM AND ADVISE ENGINEER OTHERWISE.
- B. TEST AND BALANCE SYSTEMS PER GUIDELINES SET FORTH IN NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) STANDARDS.
- C. AIR BALANCE:
 1. AS A MINIMUM EACH SUPPLY DIFFUSER SHALL BE BALANCED AND VERIFIED TO WITHIN 10% OF VALUES SHOWN ON MECHANICAL DRAWINGS.
 2. ADJUSTABLE SHEAVES SHALL BE USED FOR MOTORS LESS THAN 5 HP.
 3. FIXED SHEAVES AND BELTS SHALL BE REPLACED AS REQUIRED BY THE TEST AND BALANCE CONTRACTOR.
 4. THE OUTSIDE AIR FOR EACH AIR HANDLER (AHU) SHALL BE MEASURED AND VALUES SHALL BE GIVEN TO THE CONTROL CONTRACTOR FOR USE IN SETTING UP THE DESIGN. TEST AND BALANCE SHALL WORK CLOSELY WITH THE CONTROL CONTRACTOR IN ASSURING THAT THE SYSTEM MEETS THE INTENT OF THE DESIGN.
 5. PERFORMANCE TESTING OF THE COOLING COILS WHEN THE OUTSIDE AIR IS PROPERLY ADJUSTED MUST BE MEASURED TO ASSURE THAT THE UNIT PERFORMS PER THE MECHANICAL SCHEDULES.
 6. OFFICE SYSTEMS: ALL VAV/FPB BOXES SHALL BE CALIBRATED. K-VALUES SHALL BE LISTED FOR EACH VAV/FPB SO POINT CAN EASILY BE ATTAINED IF ADJUSTMENTS ARE REQUIRED. ALL ROOFTOP UNITS (RTU'S) AND AIR HANDLING UNITS (AHU'S) SHALL BE CHECKED FOR PROPER SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR. DAMPER POSITIONS SHALL BE NOTED IN THE REPORT ALONG WITH SCHEMATICS FOR EACH SYSTEM SHOWING RECORDED MEASUREMENTS. THE TEST AND BALANCE OF MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH THE TEST AND BALANCE CONTRACTOR, MANUFACTURING REPRESENTATIVE AND THE MECHANICAL CONTRACTOR.
- D. OUTSIDE AIR (OA) QUANTITIES SHALL BE VERIFIED FOR ALL EXHAUST FANS (EF'S) AND AIR HANDLING UNITS (AHU'S).
- E. FIRE DAMPER TEST: THE MECHANICAL CONTRACTOR SHALL REMOVE ALL LINKS AND DROP THE DAMPERS TO ENSURE PROPER OPERATION WITHOUT BINDING. AFTER THE ACCEPTANCE TEST IS VERIFIED BY THE ENGINEER OR OWNER'S REPRESENTATIVE, THE LINKS SHALL BE RE-INSTALLED.
- F. PROVIDE THREE (3) COPIES OF REPORT IN NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) FORMAT.

15952 CONTROL WIRING

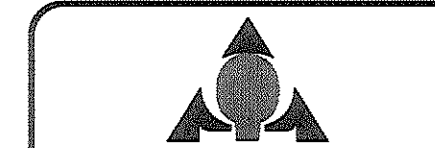
- A. MECHANICAL CONTRACTOR SHALL PROVIDE ALL 24 VOLT CONTROL WIRING.
- B. ALL THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR WHETHER THEY ARE LOW VOLTAGE OR LINE VOLTAGE.
- C. ALL 120 VOLT INTERLOCK WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.



1930 San Marco Blvd., Suite 203
Jacksonville, Florida 32207
T 904 253 3902 F 904 253 3906
www.scopodesigngroup.com
AA26001292

PROJECT ENGINEER
DARYL A. BRYAN, PE

FLORIDA LICENSE NO. 65272



THE OHMEGA GROUP
CONSULTING ENGINEERS
1802 SAN MARCO BLVD
JACKSONVILLE, FLORIDA 32207
T (904) 807-6512 F (904) 807-6550
WWW.OHMEGAGROUP.COM
FLORIDA CCA NO. 25911

ELECTRICAL ENGINEER
MARK A. MARLEY, PE
FLORIDA PE NO. 15815

MECHANICAL ENGINEER
DARYL A. BRYAN, PE
FLORIDA PE NO. 65272

PROJECT TEAM

OWNER
COMMUNITY REHABILITATION
CENTER
904-358-1211

LANDLORD
PEARL PLAZA PARTNERS, LLC
904-537-6186

ARCHITECT
SCOPO DESIGN GROUP, LLC
904-253-3902

M/E/P ENGINEER
THE OHMEGA GROUP, LLC
904-807-6512

DATE	ISSUE
08 JUL 2008	PERMIT

EXISTING CONDITIONS
CRC SANDWICH SHOP
PEARL PLAZA SHOPPING CENTER
6924 SPRINGFIELD AVENUE
JACKSONVILLE, FLORIDA 32208
MECHANICAL SPECIFICATIONS

PROJECT NO: 00158-0708

DRAWN BY: DAB

CHECKED BY: MAM

SHEET NO:

M1.2

SHEET