

SECTION 1640 - MECHANICAL SPECIFICATIONS

- GENERAL
  - ALL TESTS, PERMITS, TAXES, ETC. SHALL BE PAID BY THE CONTRACTOR.
  - THIS CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR FOR A COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM TO THE FULL EXTENT SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
  - ALL FEES, PERMITS, TAXES, ETC. SHALL BE PAID BY THIS CONTRACTOR.
  - THIS CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED SUBSTITUTIONS FOR APPROVAL BEFORE INSTALLATION. SUBMIT SIX (6) COPIES OF A BOUND BROCHURE CONTAINING A COMPLETE LIST OF THE MANUFACTURER'S REPRESENTATIVE'S PRODUCTS.
  - THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S REPRESENTATIVE'S ATTENTION FOR CLARIFICATION OR RESOLUTION PRIOR TO BIDDING.
  - THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
  - FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT OWNER'S REPRESENTATIVE.
- ### PART 2 PRODUCTS
- 2.1 PIPING: ALL PIPING SHALL BE RUN SUBSTANTIALLY AS SHOWN ON THE DRAWINGS.
- DOMESTIC HOT AND COLD WATER PIPING: SHALL BE TYPE "N" HARD DRAWN COPPER TUBING INSIDE THE BUILDING AND TYPE "P" SOFT COPPER BELOW SLAB. JOINTS FORMED BELOW SLAB BY SILVER SOLDER IS USED IN THE JOINTS. PROTECT FITTINGS ON COPPER PIPING FROM CONTACT WITH CONCRETE.
  - SANITARY SOIL AND WASTE PIPING: ALL SANITARY SOIL AND WASTE PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS ALLOWED BY CODE. WASTE PVC IS NOT ALLOWED BY CODE. PROVIDE STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS.
  - VENT PIPING: ALL VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS ALLOWED BY CODE. WASTE PVC IS NOT ALLOWED BY CODE. PROVIDE STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS.
  - GAS PIPING: GAS PIPING ABOVE GRADE SHALL BE BLACK STEEL PIPE SCHEDULE 40. PIPE INSULATION SHALL BE WELDED OR WALLBOARD OR SHROUDED AT ALL LOCATIONS WHERE THE PIPING COMES THROUGH THE WALLS OR FLOORS OR WHERE IT PENETRATES THROUGH THE ROOF OR THROUGH THE BUILDING WHERE SHOWN ON THE DRAWINGS. GAS COOKING APPLIANCES ABOVE GRADE WHERE GAS LINE ENTERS THE BUILDING, INSTALL A GAS COCK FOR EACH INDIVIDUAL APPLIANCE OR PIECE OF EQUIPMENT INSTALLED. A UNION SHALL BE INSTALLED BETWEEN THE GAS COCK AND THE EQUIPMENT INSTALLED.
  - GAS PIPING BELOW GRADE: SHALL BE BLACK STEEL SCHEDULE 40 WITH ALL WELDED FITTINGS, ALL BELOW GRADE GAS PIPING AND WELDED JOINTS SHALL BE COATED WITH AN ANTI-RUST COMPOUND WRAPPED IN THE FIELD. PROVIDE INSULATING UNIONS AT ALL LOCATIONS WHERE THE PIPING COMES THROUGH THE WALLS OR FLOORS OR WHERE IT PENETRATES THROUGH THE ROOF OR THROUGH THE BUILDING WHERE SHOWN ON THE DRAWINGS. GAS COOKING APPLIANCES ABOVE GRADE WHERE GAS LINE ENTERS THE BUILDING, INSTALL A GAS COCK FOR EACH INDIVIDUAL APPLIANCE OR PIECE OF EQUIPMENT INSTALLED. A UNION SHALL BE INSTALLED BETWEEN THE GAS COCK AND THE EQUIPMENT INSTALLED.
  - ROOF DRAINAGE PIPING: ALL ROOF DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS ALLOWED BY CODE. WASTE PVC IS NOT ALLOWED BY CODE. PROVIDE BLACK STEEL PIPE SCHEDULE 40. FITTINGS SHALL BE OF EQUAL WEIGHT AND QUALITY. ALL ELBS SHALL BE OF THE LONG RADII TYPE.
- 2.2 INSULATION: FURNISH AND INSTALL PIPE AND EQUIPMENT INSULATION AS SPECIFIED BELOW.
- DOMESTIC COLD WATER: ALL COLD WATER INSULATION ABOVE GRADE SHALL BE INSULATED WITH GLASS FIBER PIPE INSULATION IN MULTIPLE SECTIONS ONE INCH THICK WITH VAPOR BARRIER JACKET.
  - DOMESTIC HOT WATER: SHALL BE INSULATED AS DESCRIBED FOR DOMESTIC COLD WATER. WASTE ABOVE SLABS AND WITH 1/2" THICK ARMOR-GLASS WHEN BELOW SLAB.
  - ROOF DRAINAGE PIPING: ALL HORIZONTAL RUNS OF ROOF DRAIN PIPING ABOVE GRADE SHALL BE INSULATED AS DESCRIBED FOR DOMESTIC COLD WATER.
- 2.3 PLUMBING FITTINGS: SHALL HAVE STAMP MARKS ON ALL WATER CONNECTIONS. THEY SHALL HAVE C.P. IDENTIFIERS WHERE PIPES PASS THROUGH WALLS. THEY SHALL BE PROVIDED WITH ALL NECESSARY TAP WRENCH SPECIALLY SPECIFIED HEREIN OR NOT. ALL WATER SUPPLIES SHALL HAVE 10" LONG CAPPED AIR CHARGERS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2.4 ROOFTOP UNITS: PROVIDE AND INSTALL ROOFTOP UNITS AS SPECIFIED. THE COOLING SEASON SHALL CONSIST OF THIRTY (30) CONSECUTIVE DAYS. THE ROOFTOP UNITS SHALL BE PROVIDED WITH ALL NECESSARY FITTINGS AND CONNECTIONS. THE ROOFTOP UNITS SHALL BE PROVIDED WITH ALL NECESSARY FITTINGS AND CONNECTIONS. THE ROOFTOP UNITS SHALL BE PROVIDED WITH ALL NECESSARY FITTINGS AND CONNECTIONS.
- 2.5 DUCTWORK: DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE ASHRAE CODE. RECTANGULAR SUPPLY AND RETURN DUCTS SHALL HAVE 1/4" THICK DUCT LINER INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR THE FIRST 8'-0" OF DUCT FROM THE UNIT SUPPLY AND RETURN AIR DUCT CONNECTION. RECTANGULAR EXHAUST DUCTS SHALL HAVE 1/4" THICK DUCT LINER AND ROUND SUPPLY AND RETURN DUCTWORK SHALL HAVE 1/4" THICK WOVEN SEAL EXTERIOR INSULATION WITH 1/4" MINIMUM AIR SPACE BETWEEN EXTERIOR INSULATION. RECTANGULAR EXHAUST DUCTWORK SHALL BE PROVIDED THE INSIDE FREE AREA IS NO GREATER THAN DUCTWORK MAY BE INSULATED FLEXIBLE DUCT AT CONNECTION TO AIR DEVICES IN LENGTHS NO GREATER THAN 8'-0".
- 2.6 AIR DISTRIBUTION DEVICES: SHALL BE FURNISHED AND INSTALLED AS SHOWN. FINISH SHALL BE WIRE GALL. UNLESS INDICATED OTHERWISE. PROVIDE FAN BOXES AND EXHAUST DUCTWORK BY KUEBLER.
- 2.7 HOOD EXHAUST & MAKE-UP AIR SYSTEM: FANS, ROOF CURBS, EXHAUST AND MAKE-UP TRANSITIONS ARE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR REQUIREMENTS. EXHAUST DUCTWORK SHALL BE 1/2" GAUGE STEEL WITH WELDED JOINTS. MAKE-UP AIR DUCTWORK SHALL BE AS DESCRIBED ABOVE IN PARAGRAPH 2.5 FOR RECTANGULAR SUPPLY AIR DUCTWORK AND MAKE-UP SYSTEM SHALL BE BALANCED BY AN INSTRUMENTED ARIAC OR NEER CONTROL BALANCE CONTROLLER. THE BALANCE CONTROLLER SHALL PROVIDE WRITTEN INSTRUCTIONS TO THE OWNER AND SHALL PROVIDE A REPORT OF THE BALANCED SYSTEM ON STANDARD NEMA FORM.
- 2.8 EXHAUST HOOD FAN SUPPRESSION: EXHAUST HOOD WILL BE FURNISHED BY OWNER. PRE-PAID WITH ANNUAL FIVE EXTINGUISHING NOZZLES AND PIPING FOR INSTALLATION BY THE G.C. CONTRACTOR SHALL PROVIDE INSTANT WET CHEMICAL FIRE SUPPRESSION SYSTEM TO INSTALL WITH ALL RELATED ITEMS REQUIRED FOR A COMPLETE INSTALLATION. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA, & ALL APPLICABLE CODES AND REGULATIONS.

SECTION 1641 - ELECTRICAL SPECIFICATIONS

- ### SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS
- PART 1 - GENERAL
- ELECTRICAL CONTRACTOR QUALIFICATIONS
  - DESCRIPTION OF THE ELECTRICAL WORK
  - CLEANING AND TOUCH UP
  - ELECTRICAL SERVICE
  - 1.90 TROUBLE SERVICE
- ### SECTION 16100 - RACEWAYS
- PART 1 - GENERAL
- 1.1 MATERIALS
- 1.2 PRODUCTS
- 2.1 GENERAL
- 2.2 RACEWAYS

- EXAMINATION OF THE SITE AND EXISTING FACILITIES
  - ELECTRICAL STANDARDS, REGULATIONS, AND CODES
  - PERMITS, FEES, LICENSES, AND TAXES
  - NECESSARY LICENSES OR PERMITS FOR THE CARRYING OUT OF THIS WORK SHALL BE SECURED AND PAID FOR BY THIS CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES SUSTAINED DUE TO HIS FAILURE TO OBTAIN SUCH LICENSES OR PERMITS. THIS CONTRACTOR SHALL PAY ALL TAXES APPLICABLE TO HIS WORK.
  - COOPERATION
  - COORDINATION OF ELECTRICAL INSTALLATION
  - GUARANTEE
  - DAMAGE
  - SUBSTITUTIONS OF SPECIFIED MATERIALS AND EQUIPMENT
  - APPROVAL OF MATERIALS
  - MODIFICATION PROVISIONS (RFP)
  - CONNECTION TO EXISTING ELECTRICAL SYSTEMS
- ### SECTION 16120 - WIRES AND CABLES
- 1.1 GENERAL
- 1.2 CODES AND STANDARDS
- 1.3 WIRES AND CABLES
- 1.4 DAMAGE

- FLEXIBLE METAL CONDUITS
  - CONDUIT FITTINGS
  - WIRES AND CABLES
  - CONDUIT SUPPORTS
  - PLASTIC CONDUIT (PVC) SUBSTITUTE FOR METAL CONDUITS
  - 3.1 RACEWAY INSTALLATION AND WIRING METHODS
  - 3.2 SWITCHES
  - 3.3 WIRES AND CABLES
  - 3.4 DAMAGE
- ### SECTION 16130 - CIRCUITS, BOXES, AND FITTINGS
- 1.1 MATERIALS
- 1.2 PRODUCTS
- 2.1 GENERAL
- 2.2 CIRCUITS
- 2.3 SWITCHES
- 2.4 DAMAGE

- MISCELLANEOUS DEVICES
  - TELEPHONE AND DATA OUTLETS
  - 3.1 INSTALLATION
  - 3.2 SWITCHES
  - 3.3 WIRES AND CABLES
  - 3.4 DAMAGE
- ### SECTION 16410 - CIRCUIT AND MOTOR DISCONNECTS
- 1.1 GENERAL
- 1.2 PRODUCTS
- 2.1 GENERAL
- 2.2 SWITCHES
- 2.3 DAMAGE

- ### SECTION 16420 - LIGHTING FIXTURES AND LAMPS
- 1.1 GENERAL
- 1.2 MATERIALS
- 1.3 PRODUCTS
- 2.1 GENERAL
- 2.2 CIRCUITS
- 2.3 DAMAGE

- ### SECTION 16430 - GROUNDING
- 1.1 GENERAL REQUIREMENTS
- 1.2 PRODUCTS
- 2.1 GENERAL
- 2.2 CIRCUITS
- 2.3 DAMAGE

STORE #6679

6808 SIEGEN LANE  
BATON ROUGE, LA 70809

PROJ. NO.: 1722  
DATE: 01/22/2018

SHEET TITLE:  
SPECIFICATIONS

DRAWING SHEET IS FULL SIZE AT 22" x 34"  
REDUCED 11" x 17" SHEET IS HALF SIZE

SHEET NO.:

G1.06