I. PROGRAM REQUIREMENTS

Refer to the project-specific Schedule of Spaces for student stations, square footage, and for any requirements that may differ from the prototype requirements listed below:

- 1 Laboratory
- 1 Material Storage Room
- 1 Tool Storage Room
- 1 Related Classroom
- 1 Teacher Planning Area

II. PROGRAM FURNITURE AND EQUIPMENT

Refer to the Furniture and Equipment List for Owner-provided furniture and equipment.

III. SPECIAL CONSIDERATIONS

- **Heating/Ventilation/Air Conditioning**
  Provide a ducted dust collection system for the Laboratory.

- **Floor**
  Provide sealed concrete in the Laboratory and Storage Rooms.

  Provide painted non-skid zone boundary lines around all Owner-provided equipment.

- **Walls**
  Provide wire mesh partitions (all metal construction) to fully enclose the Material Storage Room and Tool Storage Room.

- **Ceiling**
  Provide an 18’ high ceiling in the Laboratory.

- **Windows**
  Provide windows in the Laboratory, sill height to be minimum 5’ above the floor.

  Provide a half-glass door from the Teacher Planning Area into the Laboratory.

  Provide an observation window, 3’ wide x 4’ high, from the Teacher Planning Area into the Related Classroom, sill height to be 36” above the floor.

  Provide an observation window, 12’ wide x 4’ high, from the Related Classroom into the Laboratory, sill height to be 36” above the floor.
III. SPECIAL CONSIDERATIONS (continued)

- **Doors**
  
  Provide a wire Dutch-type door from the Laboratory into the Tool Storage Room.
  
  Provide a 4’ wide wire mesh door from the Laboratory into the Material Storage Room.

- **Plumbing**
  
  Provide one (1) wall mounted sink with cold water in the Laboratory.
  
  Provide one (1) semi-circular wash station with three (3) faucets.
  
  Provide an electric water cooler in the general vicinity of the Laboratory.

- **Communications**
  
  Provide a clock, speaker and intercom handset in the Laboratory and Related Classroom.
  
  Provide a clock and speaker (no intercom handset) in the Teacher Planning Area.
  
  Provide data outlets with adjacent power outlets in the Laboratory, number as directed, in accordance with District Design Guidelines.
  
  Provide one (1) data outlet in the Laboratory, in accordance with District Design Guidelines.
  
  Provide a data outlet with adjacent power outlet in the Related Classroom and Teacher Planning Area, in accordance with District Design Guidelines.
  
  Provide a TV bracket with DVD bracket, CCTV jack, and adjacent power outlet in the Laboratory and Related Classroom, in accordance with District Design Guidelines.

- **Electrical**

  **Laboratory**
  
  Provide a duplex outlet at each Owner-provided student workbench and/or student workstation.
  
  Provide power poles if required, located as directed.
  
  Provide convenience outlets 10’-0” apart on three (3) walls.
  
  Provide ceiling mounted or dropped electrical outlets as required to serve freestanding power tools and equipment. Flush-type floor outlets are not to be provided at these locations.
  
  Provide two (2) master disconnect switches to shut down all receptacles, located so as to be easily accessible to the teacher. Provide a keyed reset mounted adjacent to each master disconnect switch.
  
  Provide two (2) 240v outlets for general use, located as directed.
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III. SPECIAL CONSIDERATIONS (continued)

- Gas and Air
  Provide one (1) compressed air outlet on each wall of the Laboratory, 120 psi, 10cfm, with one pressure regulator and dryer for each outlet.

  Locate air compressor, connected to the compressed air outlets, in an appropriate space to minimize noise and facilitate regular maintenance.

- Contractor-Provided Equipment and Casework
  Laboratory
  Provide one (1) glasses/goggles sanitizing cabinet with 20 safety glasses and 10 goggles, in accordance with District Design Guidelines.

  Tool Storage Room
  Provide a pegboard, 20’ long x 5’ high and bottom to be mounted 36” above the floor. The pegboard is to be mounted so as to provide a minimum of 1/2” clearance between the back of the pegboard and the wall.

- Contractor-Provided Instructional Aids
  Laboratory
  Provide a Smartboard in accordance with District Design Guidelines.

  Provide a 4’ wide x 4’ high tack-board, bottom to be mounted 36” above the floor.

  Provide a wall-mounted video projector in accordance with District Design Guidelines.

- Other Considerations
  In the Laboratory the Owner will provide student workbenches and may provide student workstations (i.e. computer). The quantity, type of workbenches and workstations and the configuration will vary depending on the program and the design of the space.

  In the Laboratory the work areas must be properly laid out to allow normal sequence of operations with a minimum of cross traffic. Provide adequate clearances between Owner-provided machines to avoid interference between operators and to allow free flow of traffic and materials.