



**US Army Corps of Engineers**  
Engineering and Support Center, Huntsville

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## **STANDARD DESIGN CRITERIA YOUTH CENTERS**

MIDDLE SCHOOL YOUTH (AGES 11-15)  
AND TEENS (AGES 16-18)

<b>SMALL</b>	<b>60 – 90</b>	<b>CAPACITY</b>
<b>MEDIUM</b>	<b>105 – 135</b>	<b>CAPACITY</b>
<b>LARGE</b>	<b>150 – 180</b>	<b>CAPACITY</b>

## **ROOM BY ROOM DESCRIPTIONS**

**CATEGORY CODE: 74066**

**July, 2020**

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## A. GENERAL REQUIREMENTS

### 1. CRITERIA

- **Army Child & Youth Services (CYS) Review and Approval.** All facility and playground design, alteration (to include renovation and repairs), and construction projects shall be reviewed and approved by Installation Management Command (IMCOM) G9 CYS. Involvement of IMCOM G9 CYS is required in all phases of the project, to include planning and design. This document is primarily for New Construction. Any Additions, Repairs, Alterations, and Remolding shall comply with the Standard Design Criteria to the fullest extent possible.
- **Architectural Barriers Act (ABA).** The entire Youth Center (YC) and site must meet all requirements of ABA. This includes spaces such as storage rooms, janitor closets, etc. Water closets and toilet compartments for children shall comply with ABA Advisory 604.9 and associated table. This ABA Advisory is mandatory for YC facilities. Other special requirements will be provided in the remainder of this document.
- **Army Standard.** The Army Standard and the Army Standard Design Criteria Room by Room Descriptions is mandatory criteria that must be followed. In addition to the criteria in this document, the YC must comply with relevant sections of the AR 608-10, latest version and with all other applicable Unified Facilities Criteria (UFC).
- **UFC 4-010-01 Anti-Terrorism Force Protection (ATFP).** The YC must meet all requirements of the minimum ATFP Standards for Buildings.
- **Centers of Standardization (COS).** The Army Standard for YC is the minimum mandatory criteria that must be followed. This document, Army Standard Design Room by Room Descriptions further expands on the requirements of the Army Standard. Deviations not meeting the requirements to the Army Standard or this document requires a waiver. When Host Nation Requirements or Specific Geographical Requirements conflict with the Army Standard, contact the COS in Huntsville, Alabama. The Army Standard for YC may be found at: <https://mrsi.erdcdren.mil/cos/hnc/yc/>. Information on the waiver process may be found at: <https://mrsi.erdcdren.mil/waiverprocess/>.
- **Technical Instruction (TI) 800-01.** TI 800-01 is an obsolete document and shall not be used in the design or review of a YC.
- **Caring for Our Children.** Caring for Our Children Health and Safety Guidelines by the American Public Health Association (APHA) and American Academy of Pediatrics (AAP) is used as the reference guide for Lighting Levels.

### 2. HAZARDOUS MATERIALS

- **Flammability Codes and Standards.** Use textiles and upholstered components that comply with the applicable interior finish requirements stated in the National Fire Protection Association (NFPA) 101, *Life Safety Code* and any other local, state, or federal standards that may apply. See paragraph 7-1 for more information on carpet and upholstery requirements.

- **Radon.** Check the EPA's *Map of Radon Zones* (by state), EPA 402-R-93-071 (available from <http://www.epa.gov/radon>), to determine the radon priority area. Provide passive sub-slab depressurization systems for projects located in Priority Areas No. 1 (predicted average radon level is greater than 4/pCi/L). Change the system to active, if needed, based on follow-up testing. Check the latest editions of the following EPA documents available from the EPA Radon Information Center (703) 356-5346:
  - *EPA's Model Standards and Techniques for Control of Radon in New Residences, U.S. Environmental Protection Agency, Air and Radiation (6604-J), EPA 402-R-94-009.*
  - *Radon Prevention in the Design and Construction of Schools and Other Large Buildings, EPA/625/R-92-016.*
  - *Radon Measurement in Schools, EPA/402/R-92-014.*
- **Contaminants.** Evaluate the site for potential soil and groundwater contamination. Check with the Environmental Installation Restoration Program and the Underground Storage Tank Program. Also, check previous uses of the site.
- **Lead-Based Paints.** Lead-based paint is prohibited throughout all buildings—interior and exterior, including playground equipment. All painted areas suspected of containing lead (manufactured before 1978) should be tested and managed by the Garrison Department of Public Works (DPW).
- **Asbestos.** Materials containing asbestos are forbidden throughout the facility. Any suspected asbestos containing material should be identified and abated by a certified contractor and monitored by the Installation Asbestos Management Program (IAMP).

### 3. ARCHITECTURAL

- **Construction.** The Youth Center shall meet commercial construction standards. The building may be rotated or mirrored on the site.
- **Spaces.** Functional spaces, which include all Activity Rooms, Admin Areas, Kitchen, Storage, Lounge and Training Room, may not be reduced in size from what is shown in this document and the Army Standard without an official waiver.
- **Minimum Floor and Base Construction.** For finish materials refer to the Room Finish Schedule unless additional guidance is provided in the individual space descriptions which follow. Salient characteristics included shall be easy to clean and maintain, and shall be durable. A base material, appropriate for the flooring material used, is required.
- **Minimum Wall Construction.** Unless additional guidance is provided in the individual space descriptions which follow, salient characteristics include shall be easy to clean and maintain, and shall be durable. Unless noted otherwise, interior walls between rooms shall be provided with acoustical batt insulation, or other approved system, to obtain a Sound Transmission Class (STC) rating of at least 45.

- **Minimum Ceiling Construction.** Unless additional guidance is provided in the individual space descriptions which follow, salient characteristics include ease of accessibility to mechanical system above ceiling, durable, and shall provide an aesthetically pleasing surface, free of sags or other defects. Acoustical tile ceilings shall have a minimum Noise Reduction Class (NRC) rating of 0.85 throughout the facility. Unless noted otherwise, Ceiling Attenuation Class (CAC) ratings shall be a minimum of 35.
- **Recycling.** A recycling area or alcove is a requirement in the facility. Refer to the Guideline drawings.
- **Ceiling Heights.** Unless noted otherwise in this document, all ceiling heights shall be a nominal 9'-0" minimum. Ceilings in the kitchen may exceed 9'-0". Ceilings in storage rooms are desired to be 9' in order to allow increased storage under the "fire" line which is located at 18" below the lowest part of the sprinkler head, or in accordance with NFPA 1.
- **Exterior Doors.** All exterior doors from the facility shall be flush within ¼" with the exterior sidewalk. All child/youth Activity Rooms must have a direct exit to the outside. The exterior pathways from activity room and corridor doors shall meet the requirements of the ABA. All exterior doors shall be hollow metal with half-height glass view window unless noted otherwise. All exterior exit doors shall have panic hardware and have a hold-open device as part of the self-closing device. All exit door hardware shall be located 44" above the finished floor and shall have a clear opening width of 32" minimum.
- **Intrusion/Exit Alarms.** An exit notification system with keyed manual override is required on all exterior doors from normally child occupied spaces and corridors, except for the main entrance and kitchen. These alarms must provide immediate notification; they cannot have a delay. In addition, the alarm must provide notification at the central counter with a recessed, wall-mounted notification panel.
- **Interior Doors.** Salient characteristics include durability. Doors, frames, and hardware shall be able to withstand constant opening and closing. Unless noted otherwise, doors shall be solid core wood doors, stain grade. Glazing in interior half-height glass doors shall be a minimum of 5 square feet of exposed clear safety glass. All interior doors shall be half-height glass, except for adult and youth toilet room doors. All doors opening into corridor/atrium and all doors into toilet rooms must be provided with self-closing devices. Youth Center Activity Room (NOT offices or any ancillary room like the janitor closet) doors that open into corridor/atrium to include the Technology Lab, Homework Center, Hobby/Arts Combination Activity Room, High Performance Activity Room, and General Activity Room shall have magnetic hold open devices that tie into the fire alarm system. All fire rated doors shall comply with NFPA 80, including self-closing devices. Metal frames shall be painted, and doors shall be stained and sealed.
- **Interior Walls.** Unless noted otherwise, interior walls between rooms shall be provided with acoustical batt insulation to match the stud wall thickness and on top of the acoustical ceiling system in addition to the required ceiling insulation to achieve the required R value. All interior walls shall contain 5/8" drywall and all electrical wall outlets shall be staggered. Unless noted otherwise, interior walls between rooms shall be provided with acoustical batt insulation, or other approved system, to obtain an STC rating of at least 45.

- **Wall Finish.** Impermeable wall finishes, such as vinyl wall covering or Fiberglass Reinforced Paneling (FRP), are not acceptable, unless noted otherwise. This is a mold prevention issue.
- **Corner Guards.** Corner guards are to be provided on all outside corners of interior walls. Corner guards are to be integral color, sufficiently durable to prevent damage to the wall corners and injury to the youth, and mechanically fastened (not through tape or adhesives) to the wall. Corner guards are to be caulked and sealed to prevent harborage of vermin and accumulation of debris. Corner guards shall be minimum 48" high and set flush and tight to the adjacent walls.
- **Exterior Windows.** Where exterior windows are provided, the following requirements shall be met. Shall comply with UFC 4-010-10 ATFP requirements. Salient characteristics include easy to clean and able to withstand continuous use. Individual windows shall be single or double hung, full height Insect screens shall be provided. Secure insect screens with interior metal clips to preclude children from removing the clips. Windows shall comply with the Army Standard. Windows shall be provided with a manual locking mechanism in addition to the sash latch mechanism and with a non-porous, smooth and easily cleanable, solid surface quartz window sill mounted 30-34" above the finish floor. Wood and plastic laminate window sills are not allowed. Exposed edges shall be eased. Where windows with sash latching mechanisms higher than 80" AFF are provided, the contractor shall also provide a minimum of one (1) latching/unlatching mechanism (pole mounted) for each room with operable windows.
- **Glass.** All glass shall be provided with a manufacturer's label indicating that the glass is safety glass.
- **Mirrors.** All mirrors in the facility shall be a tempered safety glass mirror, with stainless steel surround, including a clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally.
- **Vision Panels.** Refer to the Army Standard for additional information on Vision Panels. Vision Panels are 3'-4" wide x 3'-4" tall interior windows with the top of the window frame aligned with the top of the door frame. See Commons Areas for more details.
- **Caulking.** All caulking used inside the building shall be US Department of Agriculture (USDA) or National Sanitation Foundation (NSF) approved caulking.
- **Grout.** Where porcelain, ceramic or quarry tile is provided, grout shall be non-staining and resistant to liquid absorption.
- **Showers.** Showers and changing rooms are NOT allowed due to child abuse prevention measures.
- **Youth Lockers.** Lockers shall be provided for the maximum youth occupancy of the facility. Lockers shall be 15" W x 18" D x 36" H with 4" base, double stacked except where provided at vision panels. Top of double stacked lockers to be sloped. Locations where lockers are only single tiered shall be covered by a solid surface quartz countertop cap rigidly attached

to the lockers. Countertop cap shall have rounded corners and edges. Locking mechanisms shall be padlock type with padlocks provided by the users; combination lockers are not acceptable. As an alternative, consider providing 'Z' style lockers.

- **Kitchen Equipment.** Shall be commercial grade equipment or the equivalent NSF approved. Kitchen equipment will comply with all NFPA requirements to include NFPA 96, and NFPA 17A, all equipment will be contractor furnished and contractor installed (CFCI). All equipment must be installed in accordance with the Technical Bulletin Medical (TB) Med 530 Tri-service Food Code.
- **Special Kitchen Requirements.** The kitchen designs shown in the standard designs are only a general concept and the final kitchen design must be determined by a certified kitchen designer in accordance with TB Med 530 Tri-service Food Code and in coordination with the IMCOM G9 Preventive Medicine Proponent.

#### 4. MECHANICAL

- **Temperature Controls.** Temperatures in child activity rooms shall be maintained at no less than 68 degrees F. in the winter and no higher than 78 degrees F. in summer. Tamper proof temperature and air quality measurement/monitoring devices shall be installed with the operable mechanism mounted at 44" - 48" elevation above floor with temperature control set to provide winter and summer room temperatures with a combination of conditioned and natural air. A relative humidity of between 35 and 50 percent will be maintained in the facility, especially in the activity rooms, to prevent drying of mucous membranes, to control the spread of diseases, and to prevent mold growth. The thermostat shall be located in the wall near the center of the activity space, not adjacent to the entry door.
- **Water Temperature.** The appropriate temperature for the water in child accessible areas is between 85 - 95 degrees F, with a maximum of 110 degrees F. Water temperature in the laundry room, janitor's closet and the kitchen is required to be 140 degrees F. The final rinse (sanitization) of the dishwasher and ware washing will be 180 degrees F provided by means of an adequately sized booster heater.
- **Automatic-Sensor Plumbing Fixtures.** Automatic flushing water closets and automatic lavatory faucets are not allowed in YC.
- **Urinals.** Waterless urinals are prohibited.

#### 5. ELECTRICAL

- **Receptacles.** Wall mounted receptacles shall generally be mounted 18" above finished floor unless otherwise noted. Above counter receptacles shall be mounted in the vertical wall space above the counter-top unless otherwise noted. Outlets shall be tamper resistant throughout the facility in accordance with the National Electric Code (NEC). All electrical outlets in Youth and CYS Staff occupied areas, to include the Teen Room/Lounge, Covered Patio, to be a combination of USB/electrical. All floor outlets shall be combination USB/electrical outlets.



- **Lighting.** There is a mixture of natural and artificial light which can be adjusted by the staff to changing outside light levels. Lighting in the Activity Rooms shall be overhead and be provided with multi-ballast fixtures to provide lighting flexibility of all lamps/all fixtures on, half lamps/all fixtures on, and all lamps/fixtures off. The intent is to be able to reduce lighting levels to address different activities and to address natural daylighting. Lighting shall be controlled by manual wall switches located at the room entrance door and at the direct exit to the outside. If dimmer controls are used in lieu of multiple switches, provide lighting fixtures which will not oscillate visibly at low intensities. Roof overhangs, shades and window treatments control the natural light-brightness ratios and lateral differences in illumination. Lights come from behind most activities and children. There are sufficient controls over the natural and artificial light to give lighting flexibility. Multi-ballast switches, dimmer switches, track lighting, movable lights, etc., are used to meet this requirement.
- **Lighting Controls.** Due to child abuse prevention measures, automatic motion light switches (occupancy sensors) are allowed only in the Mechanical, Electrical, and Communication Rooms - rooms that are not accessible to users (children and staff) of the YC.
- **Telephone/Intercom.** Must have a two-way addressable system capable of allowing program staff to communicate (hands free) with the main reception desk and other locations of the facility as noted throughout this document. System shall be audible throughout the entire space. Each station shall have the ability to receive and send. Each activity room shall be provided with a system that is capable of making local and long distance calls. Incoming calls shall be received at the reception desk, and the reception desk can then forward the call to the appropriate room if necessary. The system should enable front desk staff to contact rooms individually and all rooms simultaneously. Operable mechanisms shall comply with ABA. The mechanical, communication, and electrical rooms do not need to be on this system.
- **Public Address System.** Provide a PA system throughout the facility with the base to be located in the Copy/File room. A separate PA system to be provided in the Multi-Purpose Room to support sporting events.
- **Panels.** In general, electrical circuit breaker panels shall be located in appropriate electrical rooms. If this cannot be accommodated, panels may be located in the corridors if provided with keyed locks.
- **GFI.** Ground Fault Interrupter (GFI) outlets shall be installed per electrical code.
- **Water Coolers.** Electricity for the Electric Water Coolers (EWC) shall be per manufacturer's instructions, but in no case, shall the electrical outlet and cord be located outside of the area encompassed by the EWC, where it would be easily accessible. Where EWC are provided in the facility, at least one of them shall be provided with automatic water bottle filler. All EWC shall be GFI protected.
- **CYS Commercial Internet/WiFi:** Entire facility shall be commercial WiFi enabled and shall be capable of supporting Virtual Lab School (VLS) training, child programming, teaching curriculum, etc.

## 6. FIRE PROTECTION

- **Emergency Lighting.** -Emergency lighting shall be provided in occupied rooms, including the Mechanical Room and Electrical Room.
- **Fire Protection Systems.** Comply with UFC 3-600-01. Occupancy Classification is "Educational and Assembly" where applicable in accordance with NFPA 101, Life Safety Code. Provide complete automatic sprinkler system, fire alarm/mass-notification system, and carbon monoxide detection in accordance with UFC 3-600-01 and UFC 4-021-01. Provide smoke detection in all areas including closets over 20 sq. ft. except the kitchen and spaces not climate controlled such as the attic, walk-in coolers, and the mechanical equipment room. Maintain smoke detectors at least 3 ft. from all HVAC diffusers. Heat detectors are not required in any area because the facility is fully protected with a sprinkler system. When a sound booth is provided, sprinkler protection is required per NFPA 13. Fire caulking shall be red in color making it easily distinguishable from standard caulking.
- **Fire Extinguishers.** Provide general purpose fire extinguishers in corridors, multi-purpose rooms, mechanical rooms and electrical rooms. Provide and locate extinguishers in accordance with NFPA 10. Provide wet chemical fire extinguishing equipment in the kitchen in accordance with NFPA 96.
- **Fire Extinguisher Cabinet.** A recessed fire extinguisher cabinet shall be provided. Kitchen, mechanical and electrical do not require cabinet.
- **Storage Height Limitation Line.** In rooms where shelves are provided (to include Janitor Closet, Storage Rooms, etc.), interior walls shall be marked with a red line 1" in width located 18" below the lowest point of the sprinkler head, or in accordance with NFPA 1. The red line shall be provided on the walls with shelves as a minimum. In addition, where adjustable shelves are provided in storage rooms, shelving standards shall be mounted so that the top of the bottom shelf can be located 1.5' - 2' above the floor. There is no need to plan for the top shelf to be any higher than 3' below the ceiling.

## 7. SECURITY AND MONITORING – CLOSED CIRCUIT TELEVISION (CCTV)

- **Requirements.** CCTV shall include visual and audio recording.
- **Power.**

CAMERA POWER SUPPLY: Power for the CCTV cameras shall be distributed from the SER rack mount power supply to each camera location (Class 2 limited power source - low voltage system - 24VAC to the cameras). The number of cameras provided for each facility shall be as indicated on the SECURITY & MONITORING PLAN included in the Child Development Center (CDC) for Children 6 Weeks - 5 Years Old Standard Plans.

SURVEILLANCE EQUIPMENT RACK (SER): The circuit shall be terminated with a 3-prong receptacle (L5-30P3W125V) recess-mounted in the location designated for the SER.

Small Facility – At a minimum, a dedicated NEMA 30 Amp 125V circuit is required.

Medium And Large Facilities - Two (2) at a minimum, a dedicated NEMA 30 Amp 125V circuit is required.

**PARENTAL VIEWING MONITOR (PVM):** A standard 110 VAC receptacle shall be installed at the location designated for the PVMs. The receptacle shall be recessed mounted approximately 7 ft. above finished floor (AFF) and can be tied to any circuit in the facility.

**PVM WORKSTATION (PWS):** A standard 110 VAC outlet shall be made available at the reception desk, for the PVM workstation.

- **Electrical Metallic Tubing (EMT).** EMT shall be sized in accordance with the National Electric Code (NEC) based upon the type, gauge and quantity of cabling and wiring installed within the EMT. The conduit fill rate shall conform to the NEC standard.
- **Power Cable.** Note: Cameras are not analog. They are digital and run on Power Over Ethernet (POE). Preferred cable is Belden 2413008A1000; Multi-Conductor-Enhanced Category 6 Nonbonded-Pair Cables 4-pair U/UTP CMP Reel-in-Box Gray.

All power cables shall be one continuous run. Splicing is not acceptable.

In the location designated for the SER, leave 20' excess coil of power cable.

- **Video Camera Cable.** Note: Cameras are not analog. They are digital and run on Power Over Ethernet (POE). Power and Video shall be on the same POE cable. Preferred cable is Belden 2413008A1000; Multi-Conductor-Enhanced Category 6 Nonbonded-Pair Cables 4-pair U/UTP CMP Reel-in-Box Gray.

Cable runs should be kept under 275 ft. where possible, and should not exceed 327 ft. This distance can be lengthened with the use of extenders, however it does result in degradation of signal and should be avoided whenever possible.

- **Ceiling Installations.** In areas with drop ceilings (ceilings < 16 ft.), run conduit (w/ video and power cabling) above the ceiling from SER location to each camera location. Leave 6' excess coil of power and video cable tied up at the camera location.

In areas w/o dropped ceilings (or open/high ceilings > 16ft.), run conduit (w/ video and power cabling) above ceiling from SER location to each camera location. Provide one (1) single gang receptacle box, recess mounted, on the wall no more than 12', and no less than 8', above the fixed floor at each camera location (the closer to 12' is preferable for greater field of view.) All receptacle boxes in the same area shall be mounted at the same distance from the fixed floor.

In areas with exposed conduit, provide one (1) octagon box surface mounted on the wall no more than 12', and no less than 8', above the fixed floor at each camera location (the closer to 12' is preferable for greater field of view). All receptacle boxes in the same area shall be mounted at the same distance from the fixed floor.

- **Exterior Cameras.** In areas where cameras are to be installed on building exterior, run conduit (w/ video and power cabling) from SER location to the adjacent interior location. Leave the requested 6' excess coil of power and video cable tied up at the location. Do not penetrate the wall, if required, a 4"x 4" junction box and sleeve will be installed during

camera installation. Request a #12 solid ground wire at each designated exterior camera location. Suggested grounding options are:

Grounding wire(s) to be attached to a grounded conduit run, or

Run grounding wire from communication room/SER location to exterior cameras. If option #2 is the method of grounding, provide a #6 or #8 ground wire from communication room/SER location to a power panel.

- **Cat-6 Cable and Connection.** A 10/100/1000 Base-T CAT-6 circuit shall be provided between the facilities administrator's office and the SER location. A second 10/100/1000 Base-T CAT-6 circuit shall be provided between the PVM workstation location at the reception desk and the SER. This shall include a terminated RJ-45 receptacle at the administrator's office and the PVM workstation location. At the SER, both circuits shall be un-terminated with 20' excess coiled in overhead.
- **Pull Box.** A pull box shall be installed at the PVM with an EMT wire path between it and the PVM workstation location. All EMT shall be a minimum of 1" in diameter.
- **Diffusers/Register/Grilles.** Do not install diffusers, registers, or grilles above a location designated for SER. Forced heat during winter months may cause over-heating of equipment.
- **Cable Trays.** Use cable trays throughout the facility. Recommend using tray to get camera wires as close to the camera locations as possible. Then run conduit to the exact locations using the most direct route.
- **Network Enterprise Center (NEC):** At minimum a pair of single mode fiber optic cable between the NEC and the outlying CYS Facility (either direct or cross-connected from other buildings-direct is preferred) is required. For breaks, future proofing, or expansion, a second or third available pair is preferred. This requirement is in addition to any fiber optic cable that will be used for the NIPRNet.

## 8. SITE AND BUILDING EXTERIOR

- **Criteria.** Site and building exterior must be in accordance with Host Nation Requirement, Specific Geographical Requirements, Installation Design Guide (IDG) or other garrison criteria.
- **Site Size:** Large YC requires a minimum of 4.0 acres of program space (to include building, playground and parking). Modify minimum acreage accordingly for Medium and Small YC. ATFP standoff distances, building and site set-backs, and other Garrison site requirements may vary and affect overall size of the site.
- **Site Layout.** The layout of the parking lot and traffic circulation must consider the safety of the children when entering and departing the facility. Parking lots shall be designed such that children are not required to walk behind parked vehicles as they walk from the

parking lot to the building. In other words, sidewalks shall be provided immediately in front of, or beside, the parked car. These sidewalks must be sufficient width to accommodate the overhang of the vehicle and still provide ABA width, and shall be of adequate width to accommodate patrons with strollers and little children. Eliminate the possibility of a child being required to walk behind a parked car to gain access to the building. If curbside or parallel parking is provided, parking should be restricted to the right side so children will not exit the vehicle on the street side of the vehicle. If the parking lot design requires crosswalks, as a minimum, these must be painted and identifiable with signage in appropriate locations to ensure the safety of the patrons. In addition to the curb ramps required for ABA, provide curb ramps as needed at all crosswalks for parents with strollers and little children. Where a crosswalk crosses the traffic circulation path, consider placing the walk way on top of a speed table to ensure vehicles have slowed at that location.

All sidewalks, ramps and exit pathways must be ABA compliant. The sidewalk around the perimeter of the building shall be 6' wide. The sidewalk around the perimeter of the building must be directly adjacent to the building, with no grass or landscaping between the sidewalk and the building.

Required fire exits (which includes exterior exits from all activity rooms) from the building will lead to a public way or to a clear safe area which is a minimum distance of 50' from the building. If this is located in a fenced area, they shall terminate at a gate in the fence.

Locate exterior mechanical and electrical equipment as far from the main entrance as possible. It is recommended that the mechanical yard be located at the side of the facility. Screening is required that is architecturally compatible with the facility.

- **Parking.** The only reserved parking in the patron parking area shall be the minimum number of ABA compliant spaces required. Unless required by Leadership in Energy & Environmental Design (LEED), Installation policies, or other standard, it is strongly recommended that reserved spaces for car pools, energy efficient vehicles, etc. are not to be provided since the spaces close to the door are the preferred spaces for parents with small children who are the patrons of this facility.

The number of parking spaces are as follows:

- Small: 95 spaces minimum (23 patrons, 12 staff and 60 sporting events)
- Medium: 110 spaces minimum (34 patrons, 16 staff and 60 sporting events)
- Large: 125 spaces minimum (45 patrons, 20 staff and 60 sporting events)
- **Emergency Access Roads and Fire Lanes:** Emergency vehicle access roads shall meet the requirements of NFPA 1 and UFC 3-600-01. Fire Lanes shall be painted red and marked accordingly.
- **Entry Canopy.** An entrance canopy shall be provided. The canopy shall be permanent construction, and shall enhance the architectural theme of the facility. Refer to the Guideline drawings. Provide sprinklers if required by NFPA 13.

- **Wall Hydrants.** Freeze-proof, enclosed wall hydrants, 18” above finished grade, are required on the walls of the building as noted below. They must be of the frost/freeze protective type with removable cut off handles with integral vacuum breakers. A picture is provided below as to the desired type of hydrant. This picture is provided as a guideline

only, and is not meant to dictate a manufacturer or model. As a minimum, they shall be located as follow:

- One (1) by the kitchen door in all size facilities
- One (1) by the exterior double doors of the storage room adjacent to the Multi-Purpose Room
- One (1) along the long wall of the Multi-Purpose Room
- One (1) in the front of the facility At least one (1) on another exterior wall to provide relatively consistent spacing between hydrants.



- **Receptacles.** In addition to receptacles required by the UFC, provide appropriate tamper-proof exterior electrical outlets. Mount the outlets at 18” A.F.F. in protective, lockable boxes. Electrical outlets shall be provided in proximity to each wall hydrant.
- **Fire requirements.** Fire alarm audio/visual devices and rapid entry fire fighter entry key lock box shall be provided on the exterior of the building, at the main entrance. Key lock box must be supervised by the fire alarm system. In addition to the exterior notification appliances required by UFC or Code, provide at least one (1) fire alarm visual device on the exterior wall for each youth outdoor activity area.
- **Signs.** The facility shall be identified with a sign indicating “Youth Center”. This facility shall NOT be identified as a “Child Development Center” or as a “School Age Center”.

## 9. CLARIFICATIONS TO THE ARMY STANDARD:

The Army Standard is the mandatory criteria from which this document was developed. The following items are clarifications or updates to the information in the Army Standard. Where there is a conflict between the Army Standard and the Design Criteria, the information below serves to clarify the requirements of the Army Standard.

- The finish schedule on page 16 replaces the finish schedule provided as guidance in the Army Standard.
- In the references listed in the Army Standard, replace “AR 415-5 – Appendix L” with “AR 420-1, Section VII.

CCTV requirements at the Control Desk (Central Counter/Reception Desk in the Army Standard) are provided in this document in paragraph 7 above.

- In the Accessibility requirements listed in the Army Standard, add the following, “The Department of Justice has determined that facilities in compliance with the Architectural Barriers Act (ABA) Accessibility Standards for Department of Defense Facilities, as adopted by the Department of Defense in Oct., 2008, are compliant with ADA.”
- The POC for the USACE Center of Standardization for Child and Youth Services is Mr. Jelani Ingram, CEHNC-ED-CS-A, [Jelani.A.Ingram@usace.army.mil](mailto:Jelani.A.Ingram@usace.army.mil), (256) 895-1869.

## 10. ROOM FINISH SCHEDULE

ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT
1. VESTIBULE	PT/CT & WOM	PT/CT	EPGB	ACT	8
2. CORRIDOR #1	LVT	RB	EPGB	ACT	9
3. CENTRAL COUNTER/RECEPTION	LVT	RB	EPGB	ACT	9
4. WAITING	LVT	RB	EPGB	ACT	9
5. DIRECTOR OFFICE	CPT	RB	PGB	ACT	9
6. ADMINISTRATIVE OFFICE	CPT	RB	PGB	ACT	9
7. COPY/FILE	LVT	RB	PGB	ACT	9
8. STAFF LOUNGE/ TRAINING	LVT/CPT	RB	EPGB	ACT	9
9. STAFF/VISITOR TOILET	CT/PT	CT/PT	CT/EPGB	ACT	9
10A. CORRIDOR #2	LVT	RB	EPGB	ACT	9
10B. VENDING/RECYCLING	LVT	RB	EPGB	ACT	9
11A. SNACK BAR/ CULINARY ARTS	CT/PT	CT/PT	EPGB	VACT	9
11B. PREPARATION	QT	QT	QT	VACT	9
12. DRY STORAGE/WARE WASHING	QT	QT	QT	VACT	9
13. MAIN COMMONS (By Snack Bar/Culinary Arts)	LVT/CPT	RB	EPGB	ACT	15
ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT
14. SECOND COMMONS (Large Facility)	LVT	RB	EPGB	ACT	11

15. COMMONS /GATHERING AREA (Medium Facility)	LVT	RB	EPGB	ACT	10
16. TECHNOLOGY LAB/HOMEWORK CENTER (Small Facility)	CPT-A	RB	EPGB	ACT	9
17. TECHNOLOGY LAB (Medium and Large Facilities)	CPT-A	RB	EPGB	ACT	9
18. HOMEWORK CENTER (Medium and Large Facilities)	CPT-A	RB	EPGB	ACT	9
19A. GENERAL ACTIVITY ROOMS	LVT	RB	EPGB	ACT	9
19B. HOBBY/ARTS COMBINATION ACTIVITY ROOM	LVT	RB	EPGB	ACT	9'
19C. HIGH PERFORMANCE ACTIVITY ROOM	ATHL FL	RB	EPGB	IR-ACT	9'
20A. GENERAL STORAGE	LVT	RB	PGB	ACT	9'
20B. RECEPTION AREA STORAGE	LVT	RB	PGB	ACT	9'
20C. TECHNOLOGY LAB STORAGE	LVT	RB	PGB	ACT	9'
21. MULTI-PURPOSE ROOM	ATHL FL	RB	PCMU	E STRU	24' CLEAR
22. SPORTS DIRECTOR'S OFFICE	CPT	RB	PGB	ACT	8'
23. LAUNDRY	QT	QT	CT/EPGB	EPGB/VACT	8'
24. YOUTH UNISEX TOILET (5) SM. FACILITY (8) MED. FACILITY (10) LARGE FACILITY	CT/PT	CT/PT	CT/EPGB	ACT	8'
25. CORRIDOR #3	LVT	RB	PCMU	ACT	8'
26. JANITOR	QT	QT	CT/EPGB	VACT	8'
27. CCTV EQUIPMENT ROOM	LVT	RB	PGB	ACT	9'
28. COMMUNICATION ROOM	CONC	RB	PGB	ACT	8'
29. MECHANICAL ROOM	CONC	RB	PGB	E STRU	VARIES
30. ELECTRICAL ROOM	CONC	RB	PGB	E STRU	VARIES
31. SPORTS EQUIPMENT STORAGE	CONC	RB	PGB	E STRU	VARIES
<b>ROOM NAME</b>	<b>FLOOR MATERIAL</b>	<b>BASE MATERIAL</b>	<b>WALLS MATERIAL</b>	<b>CEILING MATERIAL</b>	<b>CEILING HEIGHT</b>
32. SPORTS EQUIPMENT MEZZANINE	STEEL	-	PGB	E STRU	VARIES



33. EXTERIOR STORAGE	CONC	RB	PGB	E STRU	9'
34. COVERED ENTRY	CONC	--	--	PGB	V

**TEEN ROOM/LOUNGE OPTION**

ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT
35. TEEN ROOM/LOUNGE OPTION	LVT	RB	EPGB	ACT	9'
36. TEEN ROOM /LOUNGE STORAGE	LVT	RB	PGB	ACT	9'
37. TEEN ROOM /LOUNGE MECHANICAL	CONC	RB	PGB	E STRU	9'
38. TEEN ROOM/LOUNGE TOILET	CT/PT	CT/PT	CT/EPGB	ACT	8'
39. TEEN ROOM/LOUNGE CORRIDOR	LVT	RB	EPGB	ACT	9'
40. TEEN ROOM/LOUNGE COVERED PATIO	CONC	--	--	PGB	V

**Note:** Finishes shown above represent minimum finishes. Other finishes meeting or exceeding the performance of the finishes shown above may be considered.

**FINISH SCHEDULE LEGEND**

- ACT Acoustical Ceiling Tile
- ATHL FL Athletic Floor - Connor's 4 + 4 Elastic-plus flooring system or approved equal.
- CONC Sealed Concrete Floor
- CT/PT Ceramic Tile/Porcelain Tile –no less than DCOF of .50 (asterisk = minimum 4'-0" high)
- CPT Carpet, (anti-static)
- EPGB Epoxy Painted Gypsum Board or acceptable alternate
- E STRU Exposed Structure
- IR-ACT Impact Resistant Acoustical Ceiling Tile
- PCMU Painted Concrete Masonry Units (Gloss or Semi-Gloss / Sealed)
- PGB Painted Gypsum Board (Semi-Gloss or Eggshell Finish)
- QT Quarry Tile
- RB Rubber Base
- VACT Vinyl Faced Acoustical Ceiling Tile
- VCT Vinyl Composition Tile or acceptable alternate
- LVT Luxury Vinyl Tile (Thickness must be 28 mil or higher)
- V Varies

## 11. NET AREAS AND TOTAL GROSS BUILDING AREAS

<b>ROOM NAME:</b>	<b>SMALL 60-90 Capacity</b>	<b>MEDIUM 105-135 Capacity</b>	<b>LARGE 150-180 Capacity</b>
1. VESTIBULE	80sf	80sf	8
2. CORRIDOR #1	140sf	140sf	140sf
3. CENTRAL COUNTER/RECEPTION	160sf	160sf	160sf
4. WAITING	475sf	475sf	475sf
5. DIRECTOR OFFICE	120sf	120sf	120sf
6. ADMINISTRATIVE OFFICE	100sf	100sf	100sf
7. COPY/FILE	105sf	105sf	105sf
8. STAFF LOUNGE/TRAINING	360sf	360sf	360sf
9 STAFF/VISITOR TOILET	75sf	75sf	75sf
10A. CORRIDOR #2	250sf	250sf	250sf
10B. VENDING/RECYCLING	70sf	70sf	70sf
11A. SNACK BAR/CULINARY ARTS	910sf	910sf	910sf
11B. PREPARATION	165sf	165sf	165sf
12. DRY STORAGE/WARE WASHING	155sf	155sf	155sf
13. MAIN COMMONS (adjacent Snack Bar/Culinary Arts)	815sf	815sf	815sf
14. SECOND COMMONS	--	--	1410sf
15. COMMONS/GATHERING AREA	--	600sf	--
16. TECHNOLOGY LAB/HOMEWORK CENTER	645sf	--	--
17. TECHNOLOGY LABORATORY	--	655sf	770sf
18. HOMEWORK CENTER	--	560sf	535sf
19A. GENERAL ACTIVITY ROOM	--	525sf	1010sf
19B. HOBBY/ARTS COMBINATION ACTIVITY ROOM	530sf*	500sf*	500sf*
19A. HIGH PERFORMANCE ACTIVITY ROOM	575sf	525sf	1010sf
20A. GENERAL STORAGE	--	90sf	135sf
20B. RECEPTION AREA STORAGE	60sf	60sf	60sf
20C TECHNOLOGY LAB and/or HOMEWORK CENTER STORAGE	35sf	2@75sf	2@75sf
21. MULTI- PURPOSE RM.	6785sf	6785sf	6785
<b>ROOM NAME:</b>	<b>SMALL</b>	<b>MEDIUM</b>	<b>LARGE</b>
22. SPORTS DIRECTOR OFFICE	150sf	150sf	150sf
23. LAUNDRY	150sf	150sf	150sf
24. YOUTH TOILET	9@56sf	12@56sf	14@56sf
25. CORRIDOR #3	275sf	275sf	275sf
26. JANITOR	60sf	90sf	105sf
27. CCTV EQUIPMENT ROOM	75sf	75sf	75sf
28. COMMUNICATION ROOM	100sf	100sf	100sf
29. MECHANICAL ROOM	635sf	635sf	635sf

30. ELECTRICAL ROOM	100sf	100sf	100sf
31. SPORTS EQUIPMENT STORAGE	1000sf	1000sf	1000sf
32. SPORTS EQUIPMENT MEZZANINE	320sf	320sf	320sf
33. EXTERIOR STORAGE	90sf	90sf	90sf
34. COVERED ENTRY**	60sf	60sf	60sf
<b>TEEN ROOM/LOUNGE OPTIONS:</b>	<b>OPTION A</b>	<b>OPTION B</b>	
35. TEEN ROOM/LOUNGE OPTION	560sf	1142sf	
36. TEEN ROOM/LOUNGE STORAGE	92sf	170sf	
37. TEEN ROOM/LOUNGE MECHANICAL	80sf	88sf	
38. TEEN ROOM/LOUNGE TOILET	92sf	92sf*	
39. TEEN ROOM/ LOUNGE CORRIDOR	92sf	92sf*	
40. TEEN ROOM/LOUNGE COVERED CANOPY	800sf	800sf	

NOTE: All areas shown are net areas. An asterisk (\*) identifies a minimum Program Area for that space. A double asterisk (\*\*) identifies an area that is counted as half scope.

## 12. TOILET FIXTURE & GRAB BAR SCHEDULE

DESCRIPTION:	YC (MS/T) (11-18)	ADULT:
Water Closet (Toilet) - ABA	17" min -19" max AFF to seat	17" min -19" max AFF to seat
ABA dimension centerline of WC to wall	16" min -18" max AFF	16" min -18" max AFF
Water Closet (Toilet) - Non-ABA	Typical Industry Standard	Typical Industry Standard
Lavatory (Handsink) – ABA Wall-mounted	34" max AFF	34" max AFF
Lavatory (Handsink) - Non ABA Wall-mounted	Typical Industry Standard	Typical Industry Standard
Urinal - ABA	17" max AFF to rim	17" max AFF to rim
Urinal - Non-ABA	Typical Industry Standard	Typical Industry Standard
Drinking Fountain in Corridor - ABA or Electric Water Cooler	<36" AFF max to spout 38"-43" AFF to spout Min one (1) of each req'd; If >2, 50% of each req'd	< 36" max AFF to spout 38"-43" AFF to spout Min one (1) of each req'd; If >2, 50% of each req'd

Grab Bars in ABA stalls & rooms Grab bars req'd on rear & adjacent wall	33" min - 36" AFF max to top	33" min - 36" max AFF to top
<b>NOTES:</b> 1. ABA requirements based upon ABA Accessibility Standard for Department of Defense Facilities, adopted Oct, 2008. 2. ABA requires only one (1) plumbing fixture of each type in every toilet room to comply with ABA. All other fixture comply with Army Standards. 3. YC (MS/T) Standards based upon DA Standard Design Package for Youth Centers for Middle School Youth (ages 11-15) and Teens (ages 16-18). 4. All requirements are stated for new construction. For remodeling or other than new construction uses, standards may be different.		

### 13. TOILET ACCESSORY SCHEDULE

FIXTURE TYPE	ADULT TOILETS	ADULT LAVATORIES (Hand sinks)	YOUTH TOILETS	YOUTH LAVATORIES (Hand sinks)	YOUTH HAND WASHING SINKS	KITCHEN HAND SINKS	STAFF TOILET / FIRST AID
Mirror+		X		X		X	X
Paper Towel Dispenser*		X		X	X	X	X
Trash Receptacle (user provided)		X		X	X	X	X
Soap Dispenser*		X		X	X	X	X
ABA Exposed Piping Covering		X		X	X	X	X
Coat Hook	X		X				X
Toilet Tissue Dispenser*	X		X				X
ABA Grab Bars	X		X				X

\* Soap, toilet paper and paper towel dispensers – coordinate with the installation and provide in accordance with the service contract. Store bought soap in pump bottles to be used in child activity rooms.

+ Mirrors in most areas must be a tempered safety glass mirror, with stainless steel surround, including clear film applied to mirrored surface to retain glass pieces, if somehow the tempered mirror is cracked accidentally. If multiple mirrors need to be placed side by side, they shall be butt jointed.

#### **14. HARDWARE SETS.**

- **Office Lockset (F81) - key lock from outside to lock/unlock outside handle, always open from the inside with turn button to lock outside handle, turn button releases manually:**
  - Not Used
- **Office Lockset (F82B) - key lock from outside to lock/unlock outside handle, always open from the inside with turn button to lock outside handle, turn button releases automatically:**
  - Offices
  - Staff Lounge/Training
- **Classroom Lockset: (F84) - key lock from outside to lock/unlock outside handle, always open from the inside:**
  - Kitchen Entry
  - Copy/File
- **Storage Lockset (F86) - key lock from outside, always open from the inside:**
  - Toilet Rooms – with occupancy indicator as shown below
  - Staff/Visitor Toilets – with occupancy indicator as shown below
  - Multi-Purpose Room Toilets – with occupancy indicator as shown below
  - Storage Rooms
  - Outside Storage
  - Sports Equipment Storage
  - Janitor
  - Laundry
  - Communication Room
  - Video Monitoring Room
  - Mechanical and Electrical Rooms (unless DPW wants something else).
- **Intruder Classroom (F110) - key lock from outside or inside lever locks/unlocks outside lever, always open from the inside:**
  - Activity Room Entries
  - Homework Center
  - Technology Lab
- **Notes:**
  - All exterior doors shall be provided with hardware on the exterior side that allows for re-entry. All exterior exit doors shall have flush type panic hardware. Front entry doors are as defined in the vestibule or entry space.
  - Interior Multi-purpose room doors shall have panic hardware in accordance with NFPA.



\*Example of occupancy indicator only.

**15. LIGHTING LEVELS.** Recommended lighting levels are:

- Reading, painting, and other close work areas: 4.6 to 9 lux on the work surface;
- Work and play areas: 3.7 to 4.6 lux on the surface;
- Stairs, walkways, landings, driveways, entrances: at least 1.8 lux on the surface;

## B. INDIVIDUAL SPACE REQUIREMENTS

### 1. SPACE: Vestibule

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** This space serves to minimize air transfer by use of exterior and interior doors. Entry must have direct visual contact with the reception desk for access control.
- **OCCUPANTS:** Youth, parents, staff and visitors
- **FLOOR and BASE:** Salient characteristics include resistance to slipping, durable, and hard surface resistant to scrapes and stains and easy to clean. A base material appropriate to the flooring material used is required.
- **WALLS:** Wall surface shall have the ability to absorb pushpins and to withstand tape peeling.
- **DOORS/FRAME:** A minimum of 2 sets of double 3 foot by 7 foot doors at exterior wall and the interior wall with flush panic hardware. Doors shall be aluminum with full tempered glass and have laminated glass to meet AFTP requirements at exterior. Doors shall be provided with closers.
- **SPECIAL HARDWARE AND ELECTRICAL REQUIREMENTS:**
  - Provide buzzer type access system at entry including following features:
    - Buzzer that sounds at reception desk
    - Intercom system for communication between reception desk and entry
    - Electronic lock system
  - Features of electronic lock system shall include:
    - Control of access into facility at reception desk
    - Manual override of electronic lock by key from the outside
    - Manual override to allow the doors to remain unlocked
    - "Tell-Tale" light to indicate if doors are locked or unlocked
  - Ensure the locking mechanism does not negate the use of the panic hardware during emergency evacuations. Provide fire department with a key to manual override system.
- **AUTOMATIC DOOR OPERATORS:** Provide ABA compliant automatic door operators at outer and inner doors for handicapped accessibility. The automatic door operators at inner door shall be interlocked with Buzzer Access System controls.
- **FIRE PROTECTION:** A smoke detector is required in the Entry Vestibule.

### 2. SPACE: Corridor 1, Administration Area

- The following criteria is in addition to the General Requirements provided above.

- **FUNCTIONAL DESCRIPTION:** Circulation and emergency egress for staff lounge and administrative offices.
- **OCCUPANTS:** Parents, staff and visitors.
- **WALLS:** Walls shall be smoke partitions as required by NFPA 101. Wall material shall have the ability to absorb pushpins. Wall surface shall be able to withstand tape peeling and shall be durable.

### 3. SPACE: Central Counter/Reception

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** The main access control point with direct visual contact with the entry and Waiting area. This area will view/observe youth, parents and visitors entering and exiting the facility. Patrons will sign in/out at this location and payments are received at the reception desk. Reception area serves as the master location for the intercom system, front entry buzzer/magnetic lock release, and duress alarm. The desk provides direct line of sight of the Staff/Visitor Toilet. Area shall accommodate computers, printers, fax machine, copier, etc.
- **DOORS/FRAME:** Provide one (1) ABA-compliant counter height swing gate that opens 180 degrees with a plastic laminate finish matching the Reception Counter.
- **CABINETRY:** Salient features include ease of cleaning, maintenance and repair. Cabinets shall be durable and be able to withstand impacts from carts, strollers, book bags, buggies, etc., without showing damage. Cabinets shall be a minimum of Architectural Woodworking Institute (AWI) Custom Grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Countertops shall be solid surface quartz. Counter tops shall be provided at two levels, 30" and 42" above the floor. Work surfaces behind counter tops shall be at standard working height, and shall allow for mobile pedestals to be placed under the work surface. Do not provide built-in pedestals or drawers other than pencil drawers. For safety, all edges, vertical and horizontal, shall be eased or rounded. No sharp edges may be provided. Two (2) equally spaced grommets with covers shall be provided in each of the raised counter areas. Grommets with covers are to be provided in the lower counter area directly below the grommets in the upper counter. In addition, provide one (1) grommet with cover in the lower counter on the side where no upper counter. Area between upper and lower work surfaces shall be closed. Coordinate location of grommets with electrical, data, phone, etc. outlets. See Millwork drawings.
- **ELECTRICAL:** A minimum of 3 quad outlets shall be provided in the small, 5 quads outlets in the medium and large. In addition, a duplex outlet shall be provided in each area with the raised counter for convenience. A minimum of 6 data outlets and 3 voice outlets shall be provided in the small, and 6 in the medium and large. These electrical and data outlets shall be located evenly spaced along the reception counter, and are in addition to the wall outlets required by code. If outlets are provided on the wall opposite of the reception desk, in the public area, these outlets shall be tamper resistant, safety electrical outlets mounted standard height. Location of data and electrical outlets to be coordinated with grommets for functionality.

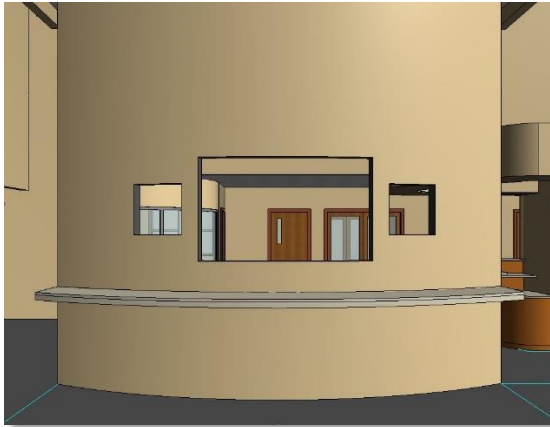


- **SPECIAL REQUIREMENTS:**

- Reception desk shall be delineated through the use of special lighting and architectural features, such as furr-downs, etc. Furr down shall be no less than 7' above finish floor and shall follow the profile of the reception desk.
- An intercom system shall be provided with the buzzer to allow communication with the entry vestibule.
- A duress alarm must be provided – provide conduit, cabling, electrical, and the capability to tie directly into the MP/Police station with a silent activation button discreetly located under the lower countertop. Ensure any other buttons, such as the button to open the door, is not located near the duress button to avoid false alarms.
- Locate the manual emergency HVAC system shut-off button, with a non-locking protective cover, on the wall behind the Reception desk.
- Ensure that there is an emergency light provided over the reception desk to provide lighting during electrical outages.

#### 4. SPACE: Waiting

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Comfortable waiting area with a bench with soft cushion seat for parents and visitors. This space will be adjacent to the Central Counter/Reception Desk and adjacent to the Commons and can serve as an area for a few youth to gather and socialize when not in use by parents and visitors.
- **OCCUPANTS:** Youth, parents and visitors.
- **CABINETRY:** Provide sofa/curved bench/chairs with soft cushioned seat with washable cover. Cushions shall be easily removed, but have means, such as hooks or loops, to secure it in place to the bench. Seams in plywood bench shall be sealed to prevent food and liquids from penetrating surface. A full height curved wall behind bench is required to define waiting space and to separate it from the Main Commons. This wall shall be provided with large opening(s) to provide visibility between the Control Counter and the activity area. The bottom of the large opening(s) shall be no higher than 48", and the top of the large opening(s) shall be no lower than 8'. Provide cabinetry to meet the same requirements as Central Counter/Reception.
- **SPECIAL REQUIREMENTS:** Provide data, power receptacle, conduit with pull string and junction box for cable TV on wall between technology lab and vestibule, and on the curved wall above the cushioned bench and large view opening. Both areas to support a monitor for youth and parent viewing.



## 5. SPACE: Director's Office

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Office for the Youth Center Director. Space must be located in close proximity to the central counter/reception desk and must be accessible from the waiting area.
- **OCCUPANTS:** One (1) or two (2) staff members plus visitors.
- **WINDOWS:** Provide 3'-4" by 3'-4" interior window(s) with tempered glazing and painted metal frame.
- **SPECIAL REQUIREMENTS:** Provide one (1) electrical and data port per wall. Install Intercom connection. A CCTV monitor will also be located in the Director's office.

## 6. SPACE: Administrative Office

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Office for administrative staff
- **OCCUPANTS:** Staff.
- **WINDOWS:** Provide 3'-4" by 3'-4" interior window(s) with tempered glazing and painted metal frame.
- **DOORS/FRAME:** Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot stained solid core wood door with half vision-lite and painted metal frames and locking mechanism.
- **ACOUSTICAL:** Wall structure shall be designed to isolate this area from adjacent activity which may create high noise levels and to provide privacy for meetings between parents and staff.

- **SPECIAL REQUIREMENTS:** Intercom connection; telephone jacks; and electrical outlets and data ports on each wall.

## 7. SPACE: Copy/File

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Within the administrative area, this space houses copy machines, shared printers, filing cabinets and storage for general office supplies.
- **CABINETRY:** Provide a minimum of 4 adjustable shelves, 12" deep with heavy duty standards and brackets, shelving shall be able to support 100 pounds per lineal foot.
- **SPECIAL REQUIREMENTS:** Provide space for public address system base unit; electrical/data outlets for copy and fax machine; and Intercom connection.

## 8. SPACE: Staff Lounge/Training

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Serves as a combined staff break area and training/distant learning area with individual lockable storage for staff to secure belongings. Space must be located in the administrative portion of the facility and provide space for at least two (2) workstations with computers and space for table and chairs for staff to work at or eat lunch.
- **OCCUPANTS:** Staff, including Trainers.
- **CABINETRY:** A minimum 8 foot wide base and wall cabinets with 1 stainless steel sink. Sink shall be provided with gooseneck faucet. Sink bowl shall be a minimum of 21" W x 15-3/4" D x 8" H. A 36" wide space shall be provided adjacent to counter for a refrigerator. Counter top shall have integral back splash, and shall be solid surface quartz. Cabinets will be constructed of AWI custom grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Counters will be 34" high. The contractor is not required to provide cabinets for computer work stations. A work station layout is shown on the plans only as a recommendation of how the space can be used.
- **LOCKERS:** Provide half-height, lockable (padlock), "z-lockers" with sloped tops secured to wall. For each locker unit, minimum foot print shall be 15"x15" and overall height shall be 72". Provide total of 16 lockers in small facility, 18 in medium facility and 20 in large facility. Seal lockers to adjacent walls and floor.
- **PLUMBING:** Provide water line for ice maker in refrigerator - refrigerator by others.
- **SPECIAL REQUIREMENTS:** Provide the following as a minimum:
  - Hard-wired internet access in training area
  - Intercom connection.
  - 3 quad electrical and 3 data/telephone ports along outside wall ("north")
  - 1 receptacle on "east" wall

- Two (2) duplex receptacles and two (2) data ports on “south” wall
- Receptacles for refrigerator, coffee maker, appliances and microwave
- Cable TV.

## 9. SPACE: Staff and Public ABA Compliant Toilet

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** ABA accessible toilet in close proximity to the entry/lobby of the facility for staff, visitors and parents. This toilet must be separate from those used by youth.
- **WALLS:** Tile wainscot shall be a minimum of 42” AFF.
- **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided directly over the toilet. Exhaust fan shall be switched with the light.
- **PLUMBING:** Provide floor drain with self-priming trap. Provide one (1) water closet and one (1) wall mounted lavatory with faucet. Provide toilet accessories.
- **SPECIAL REQUIREMENTS:** Provide fold-down wall mounted diaper changing station.
- **ELECTRICAL:** Install a minimum of one (1) GFI Outlet near the lavatory.

## 10. SPACE: A. Corridor #2; B. Vending/Recycling

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Circulation and exit egress for Snack Bar/Culinary Arts, Commons and Activity Rooms. Space for two (2) vending machines and recycling bins.
- **OCCUPANTS:** Youth, parents, staff and visitors.
- **FIRE-RATED WALL:** Wall separating Vending/Recycling area from Multi-Purpose Room shall be one-hour fire-rated wall.
- **SPECIAL ELECTRICAL:** Receptacles for two (2) vending machines.

## 11 SPACE: A. Snack Bar/Culinary Arts; B. Preparation

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Food preparation and snack bar equipment shall be NSF approved or the equivalent. Culinary Arts area is to emulate a “home-type” kitchen environment. TB MED 530 allows for the use of residential food equipment such as dishwashers, refrigerators, counters and storage cabinets in teaching kitchens in MS&T Facilities. The allowance is based on the selection of “heavy-duty” or professional-grade

residential appliances, which provide greater durability and are designed for easy cleaning. Equipment for this area is to be approved by the local Preventive Medicine Authority or the Center for Health Promotion and Preventive Medicine.

- **OCCUPANTS:** Youth and staff.
- **WALLS:** Full height ceramic wall tile will be used to sheath stud wall to meet TB Med 530 Tri-service Food Code requirements.
- **CEILING:** Provide ceiling to meet TB Med 530 Tri-service Food Code requirements.
- **CABINETS:** Salient features include ease of cleaning, maintenance and repair with hard and smooth surface. Cabinets will be constructed of AWI custom grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Countertops shall be solid surface polymer with integral backsplash. Counters will be 34" high, except snack bar counter will be 42" high. Knee space for sitting on stools will be provided as needed. See enlarged plan in "Section C- Drawings".
- **SPECIAL MECHANICAL:** NSF approved commercial grade equipment and exhaust hood in commercial food preparation area; residential exhaust hood with residential range top extinguishing system over cooktop in Culinary Arts area. **Note: Although UFC 3-600-01 does not require a residential range top extinguishing system since the facility has an automatic sprinkler system, a residential range top extinguishing system is required for this facility due to lower staff-to-child ratio. Install extinguishing system in accordance with UFC 3-600-01.**
- **SPECIAL PLUMBING:** Residential double sink with stainless steel cover, triple sink, and hand wash sink; goose neck faucets. Provide floor drain with self-priming trap. Requirements for grease traps will be determined by the installation. If provided, grease traps shall not be located inside the building without prior written approval of the MEDCEN/MEDDAL Commander. Locate grease traps within thermal mass. Do not locate grease traps within the fenced area.

**SPECIAL ELECTRICAL:** Provide a minimum of ten duplex electrical outlets above the counters. data port, cable TV and hard-wired Internet access at end of snack bar counter. Intercom device and telephone required as described in the General Requirements above. System shall be hands free and audible throughout entire space. Underneath Snack Bar countertop, provided data ports and combination outlets (2 USB 3.1 Amp charger with duplex receptacle) every 2' on center.

Electrical panels are not allowed in the Preparation area or in the Snack Bar/Culinary Arts area. If necessary, panels shall be located in Corridor #2.

## 12. SPACE: Dry Storage/Ware Washing

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Storage for dry food goods not requiring refrigeration. Pots and pans clean-up area.

- **OCCUPANTS:** Staff.
- **WALLS:** Full height ceramic wall tile will be used to sheath stud wall to meet TB Med 530 Tri-service Food Code requirements.
- **CEILING:** Provide ceiling to meet TB Med 530 Tri-service Food Code requirements.
- **PLUMBING:** Floor drain with self-priming trap is required and it shall be self-priming or designed to prevent sewer gases from entering the occupied space by a proven and maintenance free design.
- **FIRE PROTECTION:** Smoke detectors shall not be provided in the preparation area, ware washing, or dry storage areas. If the dry storage room is fully enclosed, a smoke detector shall be required.
- **SPECIAL REQUIREMENTS:** On all walls where shelving is provided, a red tile line must be provided in accordance with Storage Height Limitation Line requirements in section 6 of the General Information above.

### **13. SPACE: Main Commons (Adjacent to Snack Bar/Culinary Arts)**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Prime recreation area with plenty of natural light. Commons shall be adjacent to Snack Bar/Culinary Arts. This space is the heart of the program area.
- **OCCUPANTS:** Youth and staff.
- **FLOOR and BASE:** Activity areas and circulation spaces are to be differentiated by floor patterns and/or colors. The circulation path must be designated by a unique and obvious floor pattern, different from the center portion of the atrium. This circulation path must be 8' wide to allow for placing of shelves and other items along the wall while still maintaining the mandatory minimum circulation width of 6'.
- **FIRE-RATED WALL:** Wall separating Main Commons from Multi-Purpose Room shall be one-hour fire-rated wall extending to roof deck.
- **SPECIAL ARCHITECTURAL:** Space in this area is provided for a portable platform, approximately 16'x18', that may be brought in for special productions.
- **MILLWORK:** On curved wall, provide 24" deep counter, 42" high, with data ports and combination outlets (2 USB 3.1 Amp charger with duplex receptacle) every 2' on center, located on wall directly above counter. Counter shall be full length of wall. Millwork shall be a minimum of Architectural Woodworking Institute (AWI) 400B, Custom Grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate.
- **INTERIOR VISION PANELS:** Three (3) to four (4) 3'-4" wide x 3'-4" tall impact windows able to

withstand multiple sports activities with painted metal frame between Commons and Multi-Purpose Room. Vision Panels shall have minimum fire resistive rating of 1 hour. Vision Panels must comply with NFPA 80 with a minimum of 16" between windows and between windows and doors to allow for wall padding. Two windows can be combined into one opening in order to make two (2) 6'-8" wide x 3'-4" tall (nominal) openings. Line top of window frames with top of door frames. (Wire glass shall not be provided)

- **EXTERIOR WINDOWS:** Commons shall be provided with diffused or indirect natural lighting from high bay openings such as clerestory windows, dormers or opaque wall panels.

Skylights and solar tubes are not an acceptable means of meeting natural lighting requirement.

- **ACOUSTICAL:** Provide wall mounted, minimum 4' x 4', rigid sound absorbing acoustical panels with the bottom mounted between 10' and 12' AFF. Panels shall be mounted in a continuous, multi-colored, 4' tall band on all four walls that is coordinated with the interior color scheme. Panels shall meet NFPA 101 for fire resistive materials.
- **SPECIAL LIGHTING:** Zoned Lighting.
- **SPECIAL REQUIREMENTS:** Minimum of six (6) recessed duplex electrical floor outlets and data ports with covers 10' on center, and centered within Commons Area to support table games, such as air hockey. Do not provide these outlets in the circulation space as highlighted on the plans. Intercom device and telephone required as described in the General Requirements above.

#### 14. SPACE: Second Commons (Large Facilities)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Gathering area for youth adjacent to Activity Rooms.
- **OCCUPANTS:** Youth and staff.
- **FIRE-RATED WALL:** Wall separating Second Commons from Multi-Purpose Room shall be one-hour fire-rated wall extending to roof deck.
- **INTERIOR VISION PANELS:** Salient characteristics include ease of cleaning, maintenance and repair. Provide 3'-4" wide x 3'-4" tall windows with painted metal frames.
- **SPECIAL LIGHTING:** Zoned Lighting.
- **SPECIAL REQUIREMENTS:** Minimum of six (6) recessed duplex electrical floor outlets and data ports with covers 10' on center, and centered within Commons Area to support table games, such as air hockey. Do not provide these outlets in the circulation space as highlighted on the plans. Intercom device and telephone required as described in the General Requirements above.

## 15. SPACE: Commons/Gathering Area (Medium Facilities)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Gathering area for youth adjacent to Activity Rooms.
- **OCCUPANTS:** Youth and staff.
- **SPECIAL LIGHTING:** Zoned Lighting.
- **SPECIAL REQUIREMENTS:** Minimum of six (6) recessed duplex electrical floor outlets and data ports with covers 10' on center, and centered within Commons Area to support table games, such as air hockey. Do not provide these outlets in the circulation space as highlighted on the plans. Intercom device and telephone required as described in the General Requirements above.

## 16. SPACE: Technology Lab/Homework Center (Small Facilities)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** This area serves as a flexible environment conducive to learning that does not replicate a rigid "Classroom" environment as well as serving as a hands-on technology lab. This area will be strategically located across from the entry area so as to enable youth, parents, and visitors to view this automation station once inside the facility. Space will accommodate 8 computer workstations.
- **OCCUPANTS:** Youth and staff.
- **FLOOR and BASE:** Flooring shall be anti-static.
- **INTERIOR VIEW PANEL:** Segmented storefront window system with tempered glazing and painted metal frame curved to 6' radius. Match top of window system to top of door and door frame.
- **HVAC:** Provide HVAC zoning flexible for this space due to heat generating equipment.
- **SPECIAL REQUIREMENTS:** Combination outlets (2 USB 3.1 Amp charger with duplex receptacle) located on the walls, every 4-5' apart, 16 Data Outlets, Telephone Outlet. Intercom device and telephone required as described in the General Requirements above.

## 17. SPACE: Technology Lab (Medium and Large Facilities)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** This area will be strategically located in close proximity to the entry area. The technology lab is a functional and programming requirement in all youth centers and shall have a minimum of 35 square feet per youth with 16 computer



workstations. From the entry area youth, parents, and visitors will be able to view this automation station once inside the facility. For the small capacity youth center, see room description for combined Technology Lab/Homework Center.

- **OCCUPANTS:** Staff and youth.
- **FLOOR and BASE:** Flooring shall be anti-static.
- **INTERIOR WINDOWS:** Segmented storefront window system with tempered glazing and painted metal frame curved to 6' radius. Match top of window system to top of door and door frame.
- **HVAC:** Provide HVAC zoning flexibility for this space due to heat generating equipment.
- **ELECTRICAL:** Combination outlets (2 USB 3.1 Amp charger with duplex receptacle) located on the walls, every 4-5' apart, 20 Data Outlets, Internet Access. Intercom device and telephone required as described in the General Requirements above.

## 18. SPACE: Homework Center (Medium and Large Facilities)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** This area serves as a flexible environment conducive to learning that does not replicate a rigid "Classroom" environment. It is a self-contained area adjacent to the Technology Laboratory in all youth facilities except in the small capacity youth center. For the small capacity youth center see room description for combined Technology Lab/Homework Center.
- **OCCUPANTS:** Staff and youth.
- **FLOOR and BASE:** Flooring shall be anti-static.
- **INTERIOR WINDOWS:** Provide 3'-4" wide x 3'-4" tall window(s) with tempered glazing and painted metal frames.
- **SPECIAL REQUIREMENTS:** Combination outlets (2 USB 3.1 Amp charger with duplex receptacle) located on the walls, every 4-5' apart, 8 Data Outlets, Internet Access. Intercom device and telephone required as described in the General Requirements above.

## 19A. SPACE: General Activity Room(s)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** A multiple use area for functions such as skill building classes, video games, group meetings and clubs.
- **OCCUPANTS:** Staff and youth.

- **INTERIOR WINDOWS:** Salient characteristics include ease of cleaning, maintenance and repair. Provide 3'-4" wide x 3'-4" tall window(s) with tempered glazing and painted metal frames.
- **SPECIAL ELECTRICAL:** 2 Data Ports. Intercom device and telephone required as described in the General Requirements above.

## 19B. SPACE: Hobby/Arts Combination Activity Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** A multiple use area for functions such as arts and crafts and science activities.
- **OCCUPANTS:** Staff and Youth.
- **FIRE-RATED WALL:** Wall separating Activity Room from Multi-Purpose Room shall be one-hour fire-rated wall extending to roof deck. (Medium Capacity only).
- **INTERIOR VIEW WINDOWS:** Provide 3'-4" wide x 3'-4" tall window(s) with tempered glazing and painted metal frames.
- **CABINETRY:** Provide base cabinet with wall hung cabinet above the full length of wall as shown on plan. Provide sinks in base cabinet as defined below. Salient features include ease of cleaning, maintenance and repair with hard and smooth surface. Cabinets will be constructed of AWI custom grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Base and wall cabinets will be provided with lockable doors, all keyed alike. Counter top shall have integral back splash, and shall be solid surface quartz. Counters shall be 34" high.
- **PLUMBING:** Provide a two basin, deep welled, stainless steel sink in base cabinet. Provide floor drain with self-priming trap in area near sink. Sink will include plaster trap and gooseneck faucet.
- **ELECTRICAL:** 2 Data ports; Intercom device and telephone required as described in the General Requirements above. Provide minimum 4 flush floor mounted outlets equally spaced throughout the room (at least 8' apart and 8' from the wall).

## 19C. SPACE: High Performance Activity Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** A multiple use area for more active functions such as dance, interactive physical games, weight training, or martial arts. Depending on the intended use, coordinate for any special requirements for flooring, walls, ceiling height, and wall mirror.
- **OCCUPANTS:** Staff and Youth.

- **FLOOR and BASE:** Floor must be acceptable for multiple physical activities. Wood flooring is not acceptable.
- **FIRE-RATED WALL:** Wall separating Activity Room from Multi-Purpose Room shall be one-hour fire-rated wall extending to roof deck (Small Capacity only).
- **CEILING:** Ceiling shall be impact resistant with an impact absorbing suspension system. Ceiling shall pass an impact test equal to Armstrong's "Falling Ball" test.
- **INTERIOR VIEW WINDOWS:** Provide 3'-4" wide x 3'-4" tall window(s) with tempered glazing and painted metal frames.
- **SPECIAL REQUIREMENTS:** Provide 5' high mirror to run 75-100% on wall indicated on standard floor plan. Reinforce wall opposite of the mirrored wall to support government furnished and government installed equipment (sport wall, weight racks, etc.). Do not locate electrical outlets within the mirror area – (continued)

place all outlets on the mirror wall below the mirrors.

- **SPECIAL ELECTRICAL:** 2 Data Ports; Intercom device and telephone required as described in the General Requirements above. Install wall mounted duplex outlets 4' on center mounted 18" AFF except no outlets at the mirror location, with not less than one (1) duplex outlet mounted on walls less than 5' long.

## 20A. SPACE: General Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** General storage for supplies. (May be more than one room – refer to standard floor plans)
- **FIRE-RATED WALL:** When a storage room is adjacent to Multi-Purpose Room, the wall separating Storage Room from Multi-Purpose Room shall be one-hour fire-rated wall extending to roof deck.
- **CABINetry:** Provide a minimum of 4 adjustable shelves (2 -12" deep and 2 - 18" deep) with heavy duty standards and brackets on two walls. Shelving shall be able to support 100 pounds per lineal foot.
- **ELECTRICAL:** A minimum of one (1) duplex outlet shall be installed in this room near the door.

## 20B. SPACE: Reception Area Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Storage area adjacent to the Reception Area to be used for staff storage.
- **CABINetry:** Provide a minimum of 4 – 12" deep adjustable shelves, with heavy duty

standards and brackets on both side and back walls. Shelving shall be able to support 100 pounds per lineal foot.

- **ELECTRICAL:** A minimum of two (2) duplex outlets shall be installed in this room near the door.

## **20C. SPACE: Technology Lab and/or Homework Center Storage**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** General storage for supplies.
- **CABINETRY:** Provide a minimum of 4 adjustable shelves (2 -12" deep and 2 - 18" deep) with heavy duty standards and brackets on two walls. Shelving shall be able to support 100 pounds per lineal foot.
- **ELECTRICAL:** A minimum of one (1) duplex outlet shall be installed in room near the door.

## **21. SPACE: Multi-Purpose Room**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area for skill building clinics, fitness activities and team events. It can also function as two activity spaces divided by drop divider curtain when needed. The Army Sport and Fitness Programming element will be emphasized. Space will be sized to accommodate a full court regulation size high school basketball court and associated safety zones and portable bleachers.
- **OCCUPANTS:** Youth, staff and parents.
- **FLOOR and BASE:** Floor must be acceptable for multiple activities, which include basketball, volley ball and roller skating, non-competitive physical activities and sports clinics. Provide Connor's 4 + 4 Elastic-plus flooring system or approved equal. Wood flooring is not acceptable.
- **SPECIAL FLOOR REQUIREMENTS:** Install flush receptacles for insertion of volleyball stanchions with covers when not in use. Volleyball stanchions shall be 4" inside diameter. Provide line markings in black for full-court basketball, in red for volleyball, and light blue for side court. Side courts will have lane markings only without half-moon marking.
- **WALLS:** Structural wall surface with hard, durable and easily cleaned surface, impact resistance for multiple sports activities.
- **FIRE-RATED WALL:** Provide one-hour fire-rated wall extending to roof deck to separate the Multi-Purpose room (assembly occupancy as defined in NFPA 101) from educational occupancy areas. Educational occupancy areas for small, medium, and large plans include Vending/Recycling, Main Commons, Commons, Hobby Arts Combination Activity Room, High Performance Activity Room, and Storage.

- **SPECIAL WALL REQUIREMENTS:** Reinforce facility walls used to support the climbing wall.
- **SPECIAL EQUIPMENT:**
  - Provide reinforced facility walls to support contractor furnished contractor installed climbing wall. The climbing wall shall comply with the Association for Challenge Course Technology (ACCT) ANSI/ACCT 03-2016 or most recent version. See plan for location of climbing wall.
  - Provide wall padding (mats) around room perimeter, except area for climbing wall. Mats shall serve as protection for youth, acoustical attenuation, and reduce maintenance to the walls.
  - Provide electrically operated drop divider curtain, 6' clear on all sides. Top part of curtain will have an open weave to allow for ventilation, lighting and visibility. The curtain shall be raised and lowered with an electric winch. The curtain shall be operated with a spring loaded momentary key switch requiring the person operating it to maintain a constant pressure on the switch until it is raised or lowered to position. Locate switch in full view of curtain operator.
  - Provide four (4) basketball goals for half court play. Half-court basketball goals will be adjustable to height of 8' and 10', have an automatic winch system and will have ability to retract to the wall. Provide two (2) basketball goals (shatterproof and breakaway) for full court play.
  - Provide portable bleachers to be light-weight aluminum and located on only one side of the Multi-Purpose Room.
  - Provide score boards that will be multiple sport use, wireless, capable of independent or simultaneous operation and impact resistant. Each end of the court will be pre-wired for dual score board operation, that can be used independently for cross-court games, and drops for score table usage.
- **CEILING:** Exposed structure with minimum clear height = 24'.
- **WINDOWS:** Windows in fire rated wall shall have shatter resistant glazing and painted metal frames and shall comply with fire rated requirements of NFPA 80. They shall have a minimum fire resistive rating of 1 hour. Provide clerestory windows or vision panels to provide natural light in the Multi-Purpose Room. Natural lighting is mandatory for this space and shall be supplemented by artificial lighting. Provide adequate overhang to avoid direct sunlight penetrating this space through south facing windows, and/or install glass blocks or insulated translucent light transmitting panels for glazing. Since direct sunlight is not encouraged for this space, clear glazing may not be utilized on east or west facing windows.
- **DOORS/FRAMES:** Provide 45-minute fire rated doors in fire-rated walls. Provide exit notification system on doors leading to Youth Toilets, Sports Directors Office, and Laundry Room Corridor.
- **ACOUSTICAL:** Provide impact resistant acoustical treatment on walls to baffle or absorb excessive sound generated within this area. The maximum Reverberation Time (RT60) shall be 1.5 seconds. The Noise Criteria within the space shall be 35. The wall separating the Multi-Purpose Room from the rest of the facility shall have a minimum STC of 50.

- **SPECIAL MECHANICAL:** Dedicated HVAC Unit for this space.
- **SPECIAL LIGHTING:** Provide HID Metal Halide with wire guards. Provide battery type emergency lights. Provide variable lighting to support activities, such as sporting events, dances, movie viewing, etc.
- **SPECIAL REQUIREMENTS:**
  - Receptacles for drop divider curtain, public address system and scoreboard electrical outlets at half court extended. Provide protective mesh covers for all external fixtures, including, but not limited to emergency lights, strobe lights, fire alarms and pull stations. Recess all receptacles with protective mesh covers. Install tamper-proof (keyed) light switches to prevent multi-purpose room lights from being turned off by youth.
  - Intercom device and telephone required as described in the General Requirements above.

## 22. SPACE: Sports Director's Office

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Office for Sports Director.
- **OCCUPANTS:** One (1) or two (2) staff members.
- **WINDOWS:** Provide one (1) 3'-4" wide x 3'-4" tall window with tempered glazing and painted metal frame.
- **SPECIAL ELECTRICAL:** Provide one (1) electrical and data port per wall. Intercom device and telephone required as described in the General Requirements above.

## 23. SPACE: Laundry

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area with heavy-duty residential washer(s) and dryer(s) for laundering sports uniforms and other items associated with the operation of a youth center (props and clothes for drama, etc.) and an area to fold clothes. Vent to the outside. Machines to be provided by others.
- **FLOOR and BASE:** Flooring shall be quarry tile or other hard, durable, non-porous, non-slip surface. Alternatives to quarry tile must be submitted for approval prior to completion of design documents. An epoxy grout shall be used and shall be sealed or treated to avoid stains.
- **WALLS:** Walls shall be able to withstand the warm humid environment, and shall be able to withstand being bumped by laundry carts.

- **DOORS/FRAME:** Frame, door, and hardware to have a 45 minute fire rating in accordance with NFPA 80. Both door and frame shall have proper label indicating rating.
- **ELECTRICAL:** Provide proper outlets for 1 washer and 1 dryer.
- **PLUMBING:** Provide laundry tub, hand sink and washer. A floor drain with self-priming trap is required in this area. Laundry tub shall be a free-standing unit, minimum of 20" x 20" x 16" deep.
- **CABINETRY:** Salient features include ease of cleaning, maintenance and repair with hard and smooth surface. Minimum 6 feet wide base and wall cabinets with one (1) stainless steel hand washing sink. Cabinets will be constructed of AWI custom grade, minimum 5-ply hardwood veneer core plywood (particle board and MDF is not acceptable) finished with plastic laminate. Counter top shall be 34" AFF with integral back splash, and shall be solid surface quartz. Install wall storage cabinets above the washer and dryer.
- **FIRE RATING PROTECTION:** Must be a 1-hour fire rated enclosure. All penetrations of the fire rated enclosure shall be fire caulked with red caulking IAW NFPA requirements. If the washer plumbing connection box is recessed within a rated wall assembly, the box must be 1 hour rated. If the walls required to be 1 hour rated do not extend to, and are not sealed to the bottom of the roof deck, then the ceiling must meet the same fire ratings as the walls. Smoke detector shall be provided in this area.

**SPECIAL REQUIREMENTS:** Dryer vents shall be individually and directly vented to the outside. A non-inline booster fan shall be provided for each dryer vent in accordance with the latest version of the International Mechanical Code (IMC). Install Intercom connection.

## 24. SPACE: Youth Toilet (Typical)

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Two (2) separate toilet areas for youth, one adjacent to Commons and one adjacent to Multi-Purpose Room. Label rooms, "Unisex Toilet". All toilet rooms must comply with ABA. Each toilet room shall provide a fixture count for 18 youth.
- **OCCUPANTS:** Youth only.
- **WALLS:** Tile wainscot shall be a minimum of 42" AFF.
- **HVAC:** Local exhaust vent above water closet.
- **SPECIAL PLUMBING:** Provide one (1) water closet, one (1) wall mounted urinal and one (1) wall mounted lavatory in each Youth Toilet room. See plan for location and total number of toilet rooms. Provide floor drain with self-priming trap. Faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15-20 seconds. Provide toilet accessories as required in the General requirements above.

- **SPECIAL REQUIREMENTS:** One (1) clothes hook shall be placed on inside of each toilet room mounted on the wall at 66" AFF near the entry door. In the Youth Toilet off the Multi-Purpose Room, provide one (1) fold-down wall mounted diaper changing station per toilet room.

## 25. SPACE: Corridor #3

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Circulation and exit egress for Multi-Purpose Room, Youth Toilets, Laundry and Sports Director Office.
- **OCCUPANTS:** Youth, parents, staff and visitors.
- **SPECIAL PLUMBING:** Two (2) electric water coolers, both to be ABA compliant.

## 26. SPACE: Janitor

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Space to store janitor's equipment and cleaning supplies. Shelves are required within the Janitor's Closet in order to store janitorial and all cleaning products in a secure, locked janitor's closet away from areas where children's activities take place. SDS to be provided for all hazardous materials and approved by the local Preventive Medicine and Safety authority.
- **ADJACENCIES:** Directly accessible from the corridor.
- **WALLS:** Walls shall be able to withstand moving of mop buckets and other janitorial supplies, and shall be able to resist damage due to moisture.
- **CEILING:** Aluminum Acoustical Ceiling Grid with the size not exceeding 2' by 2' and supporting vinyl faced acoustical ceiling panels or painted gyp bd.
- **DOORS/FRAME:** The 2015 edition of NFPA 101 no longer requires the door to this space to open 180 degrees into the corridor; a standard door swing of +/- 90 degrees is acceptable. Per the general requirements above, door shall be provided with self-closing device.
- **HVAC:** Local exhaust fan, providing minimum 150 cubic feet per minute, shall be provided.
- **PLUMBING:** A janitor floor sink (mop basin) is required. Floor drain with self-priming trap is required in this area. Provide faucet with hose connection and vacuum breaker.
- **ELECTRICAL:** A minimum of 1 (one) GFI electrical outlet is required.

Lighting shall be manually controlled by a switch within the room.



- **SPECIAL REQUIREMENTS:** Adjustable 12” deep shelves with heavy duty standards and brackets will be provided on at least one wall. Shelves shall be able to support 100 pounds per lineal foot.

Dimensions of the room must accommodate the 5’ ABA turning circle. Adjustable shelves may encroach on this circle since they can be removed if necessary. Nothing else may encroach on the 5’ circle.

Provide a wall-mounted rack, over the mop sink, for hanging mops.

## 27. SPACE: CCTV Equipment Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area will house CCTV video monitoring system to deter and reduce the risk of child abuse and protect staff from unwarranted allegations of abuse. Additional cooling required
- **OCCUPANTS:** Staff.
- **HVAC:** Supply cool, conditioned air to space to protect the heat generating equipment. Ideal operating temperature of CCTV Room is 68-72 degrees F. Maximum sustained operating temperature is 85 degrees F.
- **ADDITIONAL REQUIREMENTS:** The building construction contractor provides the conduit, boxes cabling and power to every camera location indicated on the standard plan. Refer to General Information paragraph 7 for additional information.
- **SPECIAL ELECTRICAL:** Receptacles for CCTV equipment; including one (1) 30 amp receptacle.

## 28. SPACE: Communication Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Communication equipment.
- **OCCUPANTS:** Maintenance personnel only – no youth or YC staff.
- **FLOOR and BASE:** Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.
- **CEILING:** Drywall ceiling suspended.
- **HVAC:** Supply cool, conditioned air to space for heat generating equipment.
- **ELECTRICAL:** Wall telephone outlets, data ports. Intercom device and telephone required as described in the General Requirements above.

- **SPECIAL REQUIREMENTS:** Comply with most recent version of Technical Guide for Installation Information Infrastructure Architecture (I3A).

## 29. SPACE: Mechanical Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area that will house all HVAC/plumbing equipment. This room should not be located near the outdoor activity area.
- **OCCUPANTS:** Maintenance personnel only – no youth or YC staff.
- **FLOOR and BASE:** Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.
- **WALL:** Walls of Mechanical Room shall be smoke partitions.
- **CEILING:** Exposed Structure.
- **DOORS/FRAME:** Doors shall open from the exterior of the building only. Doors may be flush type (no glass).
- **PLUMBING:** Provide floor drains as needed. Floor drains are required to have self-priming trap, or designed to prevent sewer gases from entering the occupied space by a proven and maintenance-free design.
- **HVAC:** Ventilation and heat only in this space.
- **ELECTRICAL:** Wall telephone outlet, data ports.

## 30. SPACE: Electrical Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area that will house electrical equipment. This room should not be located near the outdoor activity area.
- **OCCUPANTS:** Maintenance personnel only – no youth or YC staff.
- **FLOOR and BASE:** Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.
- **CEILING:** Exposed structure.
- **DOORS/FRAME:** Door shall open from the exterior of the building only. Door may be flush type (no glass).
- **HVAC:** Ventilation and heat only in this space.

- **ELECTRICAL:** Wall telephone outlet.

### 31. SPACE: Sports Equipment Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Space for storage of programming supplies and equipment, large pieces of sports and fitness equipment, bats, balls, roller skates, etc.
- **OCCUPANTS:** Staff.
- **FLOOR and BASE:** An economical utilitarian finish is suitable.
- **WALL:** Salient characteristics include ease of cleaning, maintenance and repair.
- **CEILING:** Exposed structure.
- **DOORS/FRAME:** Interior Doors in wall between Sports Equipment Storage and Multi-Purpose Room: Pair of 4'x 8' doors with top and bottom, flush bolts on one leaf, with half vision-lite, and hollow metal frame and self-closing devices. Exterior Doors: Pair of 4'x 8' insulated doors with top and bottom, flush bolts on one leaf, with half vision-lites and hollow metal frame.
- **SPECIAL ELECTRICAL:** Wall telephone and data outlet. Install Intercom connection.

### 32. SPACE: Sports Equipment Mezzanine

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Space for storage of uniforms and seasonal equipment, including rack storage, to be accessed by Sports Director.
- **OCCUPANTS:** Staff,
- **FLOOR and BASE:** An economical utilitarian finish is suitable.
- **CEILING:** Exposed structure.
- **ELECTRICAL:** Intercom device and telephone required as described in the General Requirements above.

### 33. SPACE: Outside Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Storage room adjacent to outdoor activity area and Staff

Lounge used to store outdoor recreational equipment, house an icemaker and water heater.

- **OCCUPANTS:** Staff.
- **FLOOR and BASE:** An economical utilitarian finish is suitable.
- **CEILING:** Exposed structure.
- **MILLWORK:** Provide a minimum of four (4) adjustable 12" deep shelves with heavy duty standards and brackets on as many walls as possible while maintaining adequate circulation space. Shelving shall be able to support 100 pounds per lineal foot.
- **ELECTRICAL:** Receptacle for ice machine. Install Intercom connection.
- **PLUMBING:** Provide cold water line for ice machine and floor drain with self-priming trap. Provide water heater with pan and drain line. Provide an ice-maker with an integral water filtration system.

#### **34. SPACE: Covered Entry**

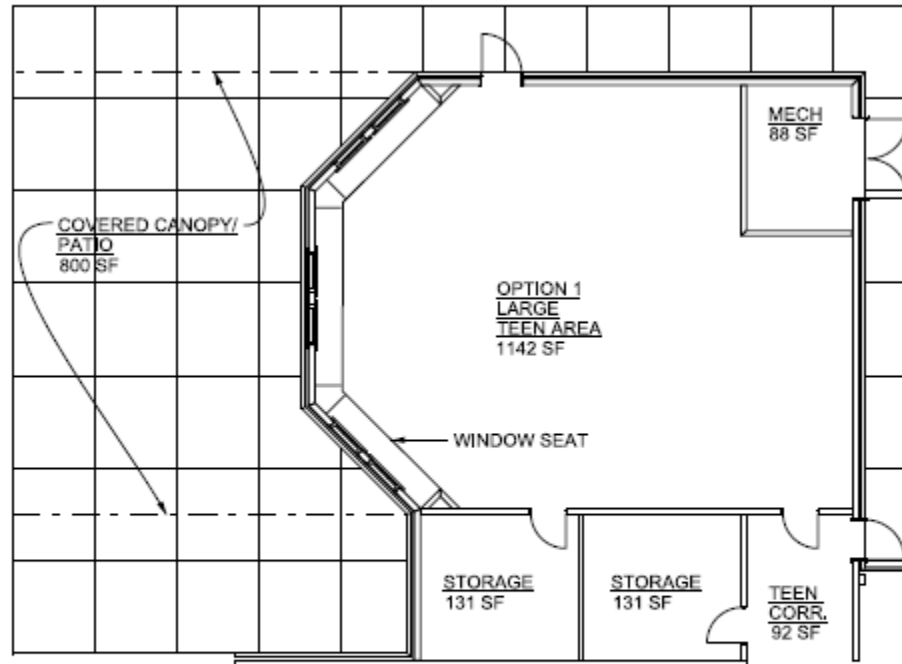
- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area that provide shelter at main entrance doors.
- **OCCUPANTS:** Youth, staff and parents.
- **FLOOR:** Concrete slab.
- **ELECTRICAL:** Exterior wall outlet and lights.

#### **35. SPACE: Teen Room/Lounge Option**

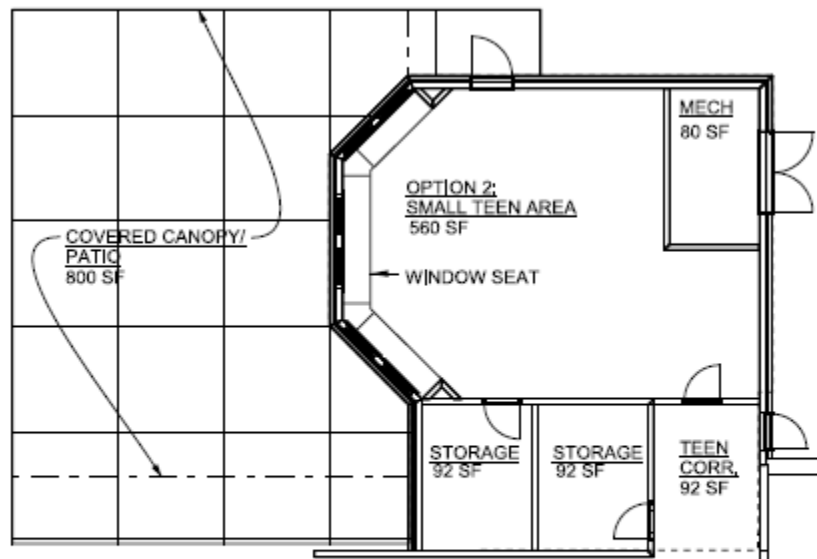
- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** A multiple use area for functions such as group meetings, clubs and skill building classes, etc., for youth, ages 16-18.
- **OCCUPANTS:** Staff and youth (ages 16-18)
- **MILLWORK:** Provide built in window seats as shown on floor plan with hinged tops to provide storage below. Seats shall be cushioned with washable covers. Cushions shall be easily removed, but have means, such as hooks or loops, to secure it in place to the

bench. Seams in plywood bench shall be sealed to prevent food and liquids from penetrating surface.

- **ELECTRICAL:** CATV; Intercom; three (3) data ports for large Teen Room/Lounge; two (2) data ports for small Teen Room/Lounge. In addition to electrical outlets required by the code, provide ten (10) USB/electrical outlets in the large and six (6) USB/electrical outlets in the small, including a minimum of two (2) USB/electrical outlets in the floor. At least two electrical outlets shall be provided at the window bench to allow youth ability to charge phones while seated on the bench.



**1** OPTION 1 PLAN SCALE: 1/8"=1'-0"  
A-101 | A-104 LARGE TEEN OPTION - 1678 SF



2 OPTION 2 PLAN SCALE: 1/8"=1'-0"  
A-101 | A-104 SMALL TEEN OPTION - 1056 SF

### 36. SPACE: Teen Room/Lounge Storage

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** General storage for supplies.
- **CABINETS:** Provide a minimum of four (4) adjustable (2 -12" deep and 2 - 18" deep) shelves with heavy duty standards and brackets on as many walls as possible while maintaining adequate circulation space. Shelving shall be able to support 100 pounds per lineal foot.

### 37. SPACE: Teen Room/Lounge Mechanical Room

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Area that will house HVAC/plumbing equipment. This room should not be located near the outdoor activity area. This room may be deleted if the main HVAC unit is adequate to condition this room.
- **OCCUPANTS:** Maintenance personnel only – no youth or YC staff.
- **WALL:** Walls of Mechanical Room shall be smoke partitions.

- **CEILING:** Exposed structure.
- **HVAC:** Ventilation and heat only in this space.
- **ELECTRICAL:** Wall telephone outlet.

### **38. SPACE: Teen Room/Lounge Toilet**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Toilet for youth using the Teen Room/Lounge and the Covered Canopy area. Label room, "Unisex Toilet". Toilet room must comply with ABA. Toilet room shall provide a fixture count for 18 youth.
- **OCCUPANTS:** Youth only.
- **WALLS:** Tile wainscot shall be a minimum of 42" AFF.
- **HVAC:** Local exhaust vent above water closet.
- **SPECIAL PLUMBING:** Provide one (1) water closet, one (1) wall mounted urinal and one (1) wall mounted lavatory. Provide floor drain with self-priming trap. Faucet shall be pre-mixed single push control that meets ABA requirements. Water shall run for at least 15-20 seconds.

Provide toilet accessories as required in the General requirements above.

- **SPECIAL REQUIREMENTS:** One (1) clothes hook shall be mounted on the wall at 66" AFF near the entry door.

### **39. SPACE: Teen Room/Lounge Corridor**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Circulation and exit egress.
- **OCCUPANTS:** Youth, parents, staff and visitors.

### **40. SPACE: Teen Room/Lounge Covered Patio**

- The following criteria is in addition to the General Requirements provided above.
- **FUNCTIONAL DESCRIPTION:** Provide permanent canopy structure. Canopy to provide shelter outside the Teen Room/Lounge for games, meetings, studying, group discussions, etc.
- **OCCUPANTS:** Youth and staff.

- **FLOOR:** Concrete slab.
- **ELECTRICAL:** Provide a recessed electrical outlet on all columns and space outlets 8' on center along wall. Provide lighting – minimum 30 foot candles spaced uniformly. Install Intercom connection.
- **Fire Protection:** Provide sprinklers under canopy if required by NFPA 13.

#### 41. SPACE: Outdoor Activity Areas

- **TECHNICAL REQUIREMENTS:** YC Outdoor Activity Area shall include the following as a minimum: (See Site Plan for Location and Adjacencies)

**Patio Area (except for facilities with Teen Room/Lounge):** 800 square foot minimum hard surface patio area of either concrete or asphalt construction, for games, meetings, studying, group discussions, etc. The Patio Area shall be covered by extension of the facility roof or by a minimum of one (1) shade structure, area = minimum 20' x 20'. Two (2) GFI electrical outlets shall be provided on the exterior wall adjacent to the Patio Area and two (2)

opposite columns. Where possible the Outdoor Activity area should be near the covered patio area so activities such as grilling or outdoor parties can be unified and the maximum amount of youth can participate while remaining in the line of sight.

- **Hard Stand Area.** Hard stand surface area, minimum 50' by 50' adjacent to the Multi-Purpose Room of either concrete or asphalt construction, for half-court basketball, volleyball, etc. Two (2) GFI electrical outlets shall be provided on the exterior wall adjacent to the Hard Stand Area.
- **Open Field:** Open field area, minimum 70 yards by 90 yards, unless an existing field of same or larger dimensions is adjacent to the YC, for soccer, football, tag, etc. Rocks larger than  $\frac{3}{4}$ " in any dimension shall be removed. Field shall be grass with weeds removed.
- Providing larger areas and/or playground areas (to include play equipment and swings) is acceptable and encouraged.
- **PLANTS.** Poisonous or potentially harmful plants are prohibited in any part of a youth facility that is accessible to children. All plants not known to be nontoxic should be identified and checked by name with the "Peterson Field Guide – Venomous Animals and Poisonous Plants".
- **ARTIFICIAL TURF.** No artificial turf may be used without a lead-free certification from the manufacturer as acceptable to IMCOM G9 CYS. Crumb rubber fill is prohibited.
- **FIRE DEVICES.** Fire alarm audio and visual appliances shall be provided for each outdoor activity area.
- **INTERCOM.** Each outdoor activity area must be provided with a weather-proof intercom unit.



- **TRIP HAZARDS.** There shall be no tripping hazards in the outdoor activity areas. Mechanical and electrical equipment, as well as manholes, clean-outs, or other plumbing access may NOT be located within the outdoor activity area.
- **DRINKING FOUNTAINS.** Due to maintenance concerns, exterior drinking fountains or EWC will NOT be provided in the outdoor activity area.