

3.0 YOUTH CENTER <VER>(REV 2.0 – 30 JUN 2012)</VER>

3.1. GENERAL REQUIREMENTS:

A. The Government will perform an Accreditation Inspection at 90 – 95 percent construction completion or about 30 days prior to the end of construction. The objective of the inspection is to identify any deficiencies that could prevent accreditation of the facility, rendering it unacceptable for its intended purpose. Contractor participation is preferred. However, do not perform deficiency correcting work or other tasks noted during the inspection unless specifically instructed by the Contracting Officer.

B. Coordination at all stages of design development of YC new construction projects is required with the Region DPW, IMCOM Center of Expertise, Region Child & Youth Services Program Manager Development Services (CDS CYS) Coordinator; the installation facilities engineer and using service CYS coordinator; and G-9.

3.1.1. FACILITY DESCRIPTION:

The design must comply with the Army Standards for the facility type and mandatory criteria in UFC 4-740-06 Youth Centers; however, references to additional UFC's within may not be a part of the mandatory criteria. Army Standard for Youth Centers (YC) is provided in Attachment A of this Section.

3.1.2. FACILITY RELATIONSHIPS – NOT USED

3.1.3. ACCESSIBILITY REQUIREMENTS – NOT USED

3.1.4. BUILDING AREAS:

A. YOUTH CENTER:

Small (60-90 Youth):	17,848 square feet
Medium (105-135 Youth):	20,221 square feet
Large (150-180 Youth):	24,241 square feet

B. OPTIONAL TEEN AREA:

Small (15 Teens):	560 square feet
Large (30 Teens):	1,142 square feet

C. The overall building areas are derived in accordance with the criteria in Appendix Q.

3.1.5. ADAPT BUILD MODEL - NOT USED

3.2. FUNCTIONAL AND OPERATIONAL REQUIREMENTS:

3.2.1. FUNCTIONAL SPACES

A. GENERAL:

1) The Army Standard floor plan for the project facility type and size is mandatory. The Youth Center Standard Drawings are provided in Attachment C.

2) The design must comply with the functional layouts and arrangements shown in the drawings. Room types, sizes and configurations, ceiling heights, and finishes are mandatory as denoted in Attachment B - Youth Center Interior Finish Schedule and Room Descriptions and Attachment C - Standard Design Drawings. Any construction details, wall sections, and building elevations are purely illustrative.

B. SPACE CONFIGURATION: The functional relationships of spaces as shown on the Youth Center Standard Drawings in Attachment C of this section are mandatory and must be followed.

- 1) Provide adult toilet facilities, separate from the youth's toilets, as shown on the standard plans.
- 2) Technology Laboratory: A minimum of 650 square foot or 35 square feet of useable space per youth in the Technology Lab. This space accommodates 8 computer workstations in the 'Small' capacity facilities and 16 computer workstations in the 'Medium' and 'Large' capacity facilities. In the Connectivity to support the appropriate number of computers, servers, and printers is installed as part of construction.

C. NON-AUTHORIZED BUILDING FEATURES: The following features are not authorized in YC:

- 1) Central dining rooms
- 2) Combined kitchen and laundry areas

3.3. SITE FUNCTIONAL REQUIREMENTS

A. GENERAL: Design circulation, parking areas and entrance drives to meet the safety requirements for youth. Provide separation of vehicular and pedestrian circulation. Minimize pedestrian crossing of traffic lanes. It is highly desirable that after parking, users do not have to cross a traffic lane to enter the building. If the crossing of a traffic lane cannot be avoided, a crosswalk must be provided. In addition, other devices to slow traffic, such as speed humps, should be provided for traffic approaching the crosswalk. The entrance drives and parking area shall comply with NFPA 1 and UFC 3-600-01 to allow fire truck access. Arrange all parking and site features in accordance with UFC 4-010-01.

B. PARKING: Long-term staff parking should be separate from short-term patron parking. Refer to Attachment C - Youth Center Standard Drawings for preferred parking layout and number of parking spaces.

C. ACCESS DRIVES AND LANES:

- 1) The circulation and parking demand includes the turnover for the hourly care program and the part-day care program. The entrance and exit drives should be designed to accommodate the flow of traffic generated by this demand.
- 2) The service drive shall be designed to accommodate food services deliveries and maintenance vehicles.
- 3) The circulation and parking demand is impacted by the security requirement for the parent to drop off the youth inside the facility and to pick up the youth inside the facility.
- 4) If required for the project (refer to Paragraph 6), prepare a site traffic impact study to determine the traffic patterns and the peak demand for parking. Access for fire equipment, garbage removal and other essential services must be provided.
- 5) Provide a drop-off lane for one bus when required by the specific project.

D. HARDSTANDS: Provide a 50 feet by 50 feet exterior Hard Surface Play Area adjacent to the Multipurpose Room. This area shall adjoin the 5 foot wide sidewalk around the perimeter of the building.

3.4. SITE AND LANDSCAPE REQUIREMENTS

A. GENERAL: A conceptual site plan is provided in Attachment C - Youth Center Standard Drawings. A preliminary site plan for the project specific location may be included in Appendix J. If provided, the preliminary site plan layout shall be used as the basis of design.

B. SITE STRUCTURES:

- 1) Dumpster enclosures shall be located in close proximity to the Culinary Arts Area and must meet the requirements of UFC 4-010-01, Paragraph 5.0 and 6.0.
- 2) Service Yards shall be located in close proximity to the Mechanical Room and such that access by the youth is minimized. Enclosures must meet the requirements of UFC 4-010-01, Paragraph 5.0 and 6.0.
- 3) Covered patio area shall adjoin the 5 foot wide sidewalk around the perimeter of the building.

C. SITE UTILITIES: Transformers and other above ground utilities should be made inaccessible to youth. To meet safety requirements concerning entrapment and fall prevention, it is recommended that storm drainage inlets, utility clean outs, valve covers, and manhole covers be located outside the outdoor activity areas.

D. LANDSCAPING/HARDSCAPING:

- 1) Poisonous plants, plants with thorns and fruit bearing plants are not permitted in the outdoor activity areas. Evaluate shrubs, bushes, trees, flowers, etc. used around the outdoor activity areas for potential hazard or toxicity using Peterson's Field Guide to Venomous Animals and Poisonous Plants for guidance
- 2) Pedestrian Sidewalks shall be provided at 5 feet wide around the perimeter of the facility and adjacent to the building slab.
- 3) An 8 feet wide shared use sidewalk from the parking area to the facility shall be provided for pedestrian and service access to the Mechanical and Electrical Rooms.

3.5. ARCHITECTURAL REQUIREMENTS

A. OPENINGS:

- 1) Storefronts/Curtain Walls & Entrances shall be provided in accordance with the Army Standard and the Room by Room criteria.
- 2) Windows
 - a) Provide exterior windows as described in Attachment B - Youth Center Interior Finish Schedule and Room Descriptions and that are in compliance with UFC 4-010-01. Furnish exterior windows with color coordinated horizontal blinds, which are operable by cord or hardware that can be adjusted in length to be out of the reach of youth and shall be strangle-proof.
 - b) Interior windows shall be provided in accordance with the Army Standard and the Room by Room criteria.
- 3) Interior Doors:
 - a) All doors are required to have half height glass except for the following:
 - (1) Staff Toilets
 - (2) Exterior doors to Mechanical Room
 - (3) Exterior door to Electrical Room
 - (4) Exterior door to Communications Room
 - b) For all doors with the requirement to have half height glass, the top of the glass panel shall be no less than 6 inches nor more than 10 inches from the top of the door. The sides of the glass panel shall be no less than 6 inches nor more than 8 inches from each side of the door. The bottom of the glass shall be no more than 3 feet-8 inches above finished floor.
- 4) Hardware:
 - a) Refer to Attachment B - Youth Center Interior Finish Schedule and Room Descriptions in this Section. All exit door hardware shall be located 44 inches above the finished floor. All doors shall be provided with hardware for opening the door on both the interior and exterior sides.
 - b) Install magnetic latches to hold fire doors open in area separation wall(s) that release when the fire evacuation signal sounds. However, do not provide a magnetic hold open device on the Prep Area or Laundry Room door.

B. EXTERIOR SPECIALTIES: Covered patio area shall be an extension of the roofing system utilized on the Youth Center.

C. ACOUSTICAL REQUIREMENTS: In addition to the acoustical requirements in the Room by Room criteria for U.S. Army Child Development Centers, the admin offices must be provided with walls with a minimum STC rating of 45. In addition, ceilings in this area must have a CAC of 40 as a minimum. The ceiling in the High Performance Play Room must also have a minimum CAC of 40.

3.5.1. FINISHES AND INTERIOR SPECIALITIES

A. GENERAL:

- 1) Attachment B - Youth Center Interior Finish Schedule and Room Descriptions provides the minimum requirements for room features and finishes. Materials that provide a better functional solution may be utilized if approved for child and youth center facilities.
- 2) Comprehensive Interior Design (CID): For YC projects, a CID package is NOT required. The Contractor is not responsible for selecting or purchasing furniture. However, a Structural Interior Design (SID) package limited to a room finish schedule and interior and exterior color boards is required reflecting the color schemes indicated in Attachment I.

B. FINISHES:

- 1) Interior finish materials shall be as indicated in Attachment B - Youth Center Interior Finish Schedule and Room Descriptions. Provide interior colors as indicated in the color scheme provided in Attachment D - Army Youth Center Color Scheme of this section. Manufacturers' names and color identification are used for the purpose of color identification only. Named products are acceptable for use only if they conform to specified requirements. Products of other manufacturers are acceptable if the colors are approximate colors indicated and the product conforms to specified requirements.
- 2) All paint shall be semi-gloss finish.

C. EXCLUDED FINISHES & INTERIOR MATERIALS:

- 1) No stained or acid etched concrete allowed.
- 2) Draperies
- 3) Lead-based paint is not-authorized throughout (lead-based paint is defined as any paint containing more than six one-hundredths of 1 per centum (0.06 percent) lead by weight (calculated as lead metal) in total nonvolatile content of the paint, or the equivalent measure of lead in the dried film of paint already applied).
- 4) Materials containing asbestos are forbidden throughout
- 5) Special decorative materials, such as pictorial or high-relief tiles and carpets, are forbidden throughout

D. INTERIOR SPECIALTIES:

- 1) Wall Protection: Provide surface-mounted, high impact integral color rigid vinyl corner guards at all outside corners of gypsum board walls, and stainless steel corner guards at all outside corners of ceramic tile walls, especially where subject to heavy traffic. Also, consider installing chair rails in areas prone to hi-impact use, such as corridors, etc.
- 2) Exterior Signage - Identify the facility as a "Youth Center". The installation or community name or geographic location of the facility may also be used for public identification purposes. Building numbers shall not be utilized unless required by the Installation.
- 3) Fire Extinguishers
 - a) Provide accommodations for fire extinguishers as required by NFPA 10.
 - b) Ensure fire extinguishers cabinets have rounded edges to prevent injury.

3.6. STRUCTURAL REQUIREMENTS

Design and construct as a complete system in accordance with APPLICABLE CRITERIA.

3.7. THERMAL PERFORMANCE – NOT USED

See Paragraph 5.6.

3.8. PLUMBING REQUIREMENTS\

A. **GENERAL:** Provide plumbing in accordance with ICC IPC International Plumbing Code. Plumbing shall also comply with UFC 4-740-06 Youth Centers.

B. **WATER TEMPERATURES:** The hot water temperature in the Culinary Arts and Prep Area shall be minimum of 140 degrees F and 180 degrees F for non-chemical sanitization process, in order to sanitize cooking and eating utensils in accordance with TB MED 530 Food Service Sanitation. Hot water temperatures for lavatories used by both adults and youth shall be 80 to 95 degrees F and must not exceed 110 degrees F. Hot water temperature for laundry rooms shall be 140 degrees F.

C. **FREE OF LEAD:** Extreme care is required to ensure that potable water systems "free of lead" have been installed. A thorough pre-sterilization flushing is important for removing sediment and solder/flux trash from the potable water lines. Liquid chlorine is highly corrosive and contributes to leaching lead from brass or other lead containing metals. High chlorine levels shall not be allowed to remain in the plumbing system after the required holding period. "Lead-free" may not really mean lead free. Virtually all brass plumbing parts still legally contain 5-7 percent lead. Care shall be taken to install lead free potable water systems as defined by the ICC IPC.

D. **PLUMBING FIXTURES:**

1) Provide all chilled water drinking fountains with timers for the disconnection of power during non-occupancy hours.

2) Art Sink: Provide a two compartment stainless steel sink with plaster trap for youth to use in art and other activities requiring water and cleanup in the activity room identified for arts and crafts only. Provide a floor drain adjacent to the sink area.

3.9. COMMUNICATIONS AND SECURITY SYSTEMS

A. **GENERAL:** Communications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 years related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling.

B. **TELECOMMUNICATIONS SYSTEMS:** Telecommunications must be designed in accordance with the Technical Guide for Installation Information Infrastructure Architecture (I3A). An acceptable building telecommunications cabling system encompasses, but is not limited to, copper and fiber optic (FO) entrance cable, termination equipment, copper and fiber backbone cable, copper and/or fiber horizontal distribution cable, workstation outlets, racks, cable management, patch panels, cable tray, cable ladder, grounding, and labeling.

1) Infrastructure: Telecommunications infrastructure shall meet the I3A and ANSI/TIA/EIA requirements. Distribution shall be via cable trays and/or EMT throughout the building. Provide a minimum 1 inch EMT from the outlet box to the distribution system. Terminate copper distribution cable in the Telecommunications Room on Cat 6 cabinet or rack mounted patch panels with 110-type compliant connectors on the back and 8-pin modular connectors on the front.

2) Outlets: Provide telecommunications outlets in accordance with the I3A based on functional purpose of the various spaces within the facility as modified by user special operational requirements. Voice/data outlets shall be two 8-pin modular (RJ45 type) outlet/connector in a double gang outlet faceplate, one connector labeled voice use and one labeled data use. Copper outlet/connector must be TIA/EIA Category 6 for all projects. Install one Cat 6 UTP cable to each connector provisioned at the faceplate, wired in accordance with T568A (default configuration). Provide each utility space, such as mechanical, electrical and telecommunications rooms with at least one wall mounted, single connector telecommunications outlet, with a wall mounting lug face plate near the entrance door.

3) Outside Plant Telecommunications Systems: Connect the project's facilities to the Installation telecommunications (voice and data) system through the outside plant (OSP) underground infrastructure in accordance with I3A guidance. Connections to the OSP cabling system shall be from each facility main cross connect located in the main telecommunications room or telecommunications equipment room to the closest OSP access point. Components include the physical cable plant and the supporting structures. Items included under OSP infrastructure encompass, but are not limited to, maintenance hole and duct infrastructure, copper cable, fiber optic cable, cross connects, terminations, splices, cable vaults, and copper and FO entrance facilities. Provide two 4-inch ducts with fabric innerduct and pull cords for copper and fiber optic cables.

4) **Telecommunications Rooms (TR):** Provide telecommunications rooms and telecommunications entrance facilities for unclassified network and voice equipment and cabling infrastructure throughout the facilities. Provide a minimum of one telecommunications room on each floor, located near the center of the building. Design and provision the telecommunications rooms in accordance with the I3A Guide and ANSI/EIA/TIA-569-B. Provide one telecommunications entrance capability for each facility. The telecommunications entrance may be collocated with the main TR for the facility. Cover three walls of each telecommunications room with fire-resistant interior plywood.

5) **CATV:** Provide a completely operational CATV cabling system including, but not limited to, all necessary raceways, cabling, terminations, jacks and faceplates. CATV riser cable shall be RG-11 type. The horizontal cable for the CATV system shall be RG-6 with "F" type connectors on the terminal end. Terminate the CATV cabling on splitters located on the CATV backboard in the telecommunications room, or in a location indicated by the DOIM. All CATV horizontal cabling shall be homerun between CATV jacks and the CATV backboard. Coordinate service requirements to the building with the local CATV service provider. At a minimum provide one 4' empty conduit stubbed out of the building to facilitate the CATV service entrance.

C. **INTERCOMMUNICATIONS SYSTEMS:** Provide a complete intercom system with master station at the reception desk and slave stations in activity rooms, administrative areas and the entry vestibule. Slave units shall only be able to communicate with the master station.

D. **DURESS ALARM** shall be provided at the reception counter. This alarm shall signal the MP by either direct line or call 911.

E. **MASS NOTIFICATION SYSTEMS:** Provide a Mass Notification System in accordance with UFC 4-021-01 and as directed herein. Combine fire alarm and mass notification systems where possible.

3.10. ELECTRICAL REQUIREMENTS

A. **GENERAL:** Electrical power, lighting and telecommunications shall be provided to the facility as specified below, in accordance with APPLICABLE CRITERIA, GENERAL TECHNICAL REQUIREMENTS, all IEEE Standards (including Recommended Practice) where the scope is applicable to this design effort, all UL Standards where the UL scope is applicable to this design effort, and where itemized in the combined interdisciplinary areas cited.

B. **POWER:**

1) Perform a short circuit study as an integral part of selecting and sizing electrical distribution components (all equipment shall be fully rated; that is, do not use series-combination rated equipment).

2) Perform a coordination study to ensure that protective device settings are appropriate for the expected range of conditions (depending on the design and construction schedule, it is acceptable to design adequate protective devices with adjustable features, followed by a coordination study required during construction to specify the correct settings.)

3) Circuit breakers, disconnect switches, and other devices that meet the OSHA definition of energy-isolating device must be lockable.

4) Do not exceed 5 percent combined voltage drop on feeders and branch circuits if the transformer providing service is located within the facility. If the transformer is located exterior to the facility, limit the combined voltage drop for service conductors, feeders, and branch circuits to 5 percent. Individual voltage drop on branch circuits should not exceed 3 percent. Branch circuits supplying sensitive circuits should be limited to 1 percent voltage drop.

5) Locate electrical distribution equipment installed within the facility, including dry-type transformers and electrical panels, within dedicated electrical rooms/closets. Electrical Panels dedicated to serving equipment within a dedicated Mechanical Room are allowed to be installed in the Mechanical Room provided the electrical panels are provided with the required access, dedicated electrical spaces, and working clearances. Panels shall be lockable and keyed to one master key.

6) When facility electrical design includes a 480/277V power distribution system, mechanical systems and lighting systems shall generally be fed from the available 480/277V power distribution system.

7) In general, to minimize sound transmission, do not install "back-to-back" outlet boxes.

- 8) Locate electrical transformers and other above-ground utilities so they are inaccessible to youth. Locate manhole covers, handhold covers outside the outdoor activity areas.
- 9) Do not install surface mounted raceways, boxes or partially-recessed enclosures in areas or passageways used by youth.
- 10) General use receptacles in laundry rooms shall be provided with Ground Fault Circuit Interruption (GFCI). GFCI is not required for laundry room fixed installation equipment.
- 11) Provide dedicated electrical circuit for cold storage.
- 12) Provide dedicated power to the Video Monitoring Security System/Closed Circuit Television (CCTV) System.

C. INTERIOR POWER:

- 1) Receptacle Placement: In accordance with applicable codes, standards, referenced UFCs, and the attachments to this section. In general, unless otherwise noted, provide NEMA 5-20R wall duplex outlets. In general, provide wall duplex outlets not less than 8 feet on center. Provide not less than one duplex outlet per wall on walls less than 9 feet long. Locate outlets to eliminate the need for extension cords. Above counter receptacles shall be mounted in the vertical wall space above the counter-top. Data, CATV, and CCTV outlets shall each be provided with an associated duplex receptacle. Outlets shall not be installed back-to-back through walls. Provide receptacles in the Multipurpose Room to support two score boards. Provide receptacles for a minimum of two computer workstations in the Staff Lounge/Training Room.
- 2) Receptacle Mounting Height: In accordance with applicable codes, standards, referenced UFCs, and the attachments to this section. Unless indicated otherwise, mount general use receptacles 18 inches above finished floor.
- 3) Computer outlets: Outlets shall be duplex, 20 amp, 125 volt, 2-pole, 3-wire grounding type receptacles. Connect a maximum of three duplex computer outlets to a branch circuit. Provide conduit and wiring for power to screen projector, screen motor and laptop computer in each of the conference room(s). Provide a duplex 125 volt, 20, 2-pole, 3-wire grounding type receptacle next to each CATV outlet. For Small Youth Center, provide 8 four-plex outlets for 8 computer workstations in the Technology Lab/Homework Center. For Medium and Large Youth Center, provide 16 four-plex outlets for 16 computer workstations in the Technology Lab. Include at least one receptacle per office for a laser printer with a load of 1000VA.

D. INTERIOR LIGHTING:

- 1) General Lighting: In accordance with applicable codes, standards, referenced UFCs, and the attachments to this section. Lighting design shall consider ease of facility maintenance and minimize the lamp types and wattages used throughout the facility. Provide emergency lighting in all areas required by NFPA 101, in all activity rooms, and at the front desk area for desk attendant to make emergency calls and carry out other duties necessary for the safety and security of the youth. Whenever possible, unless otherwise noted, incorporate the emergency lighting into the normally provided lighting fixtures.
- 2) Dimming and Switching: In accordance with applicable codes, standards, referenced UFCs, and the attachments to this section. Where dimmer controls are used, provide lighting fixtures that do not oscillate visibly at low intensities. Provide Activity Rooms, Staff Lounge, and Offices with dimming or a multilevel switching scheme (three lamp fixtures with inboard lamp switched separately from the two outboard lamps to provide three distinct, uniformly distributed lighting levels.)
- 3) Occupancy Sensors: Occupancy sensors that switch all lighting "OFF" during facility operations when the area is not occupied are not allowed in any common areas/corridors, are not allowed in any administrative/staff area, and are not allowed in any room that requires a door with half height glass. In all common areas/corridors, in all administrative/staff area, and in all rooms with doors with half height glass, the lights must be able to be switched "ON", and left "ON", by the users. In all common areas/corridors, in all administrative/staff area, and in all rooms with doors with half height glass, during facility operations when the area is not occupied automatic lighting controls may switch or dim the lighting provided the lower lighting level is uniform throughout the area, the lower lighting level is adequate to allow human observation into the area and the lower lighting level is adequate to allow effective monitoring by the Video Monitoring Security System/Closed Circuit Television (CCTV) System.

3.11. HEATING VENTILATING AND AIR CONDITIONING (HVAC) REQUIREMENTS

A. GENERAL:

- 1) ICC IMC International Mechanical Code
- 2) UFC 4-740-06 Youth Centers

B. HVAC DESIGN CRITERIA: In lieu of the requirement in Chapter 4, comply with UFC 4-740-06 Youth Centers space temperature and humidity requirement.

C. TEMPERATURE CONTROL: Install thermostats 54 inches above the floor with a protective covering.

D. MECHANICAL EXHAUST: In addition to the requirements in Attachment B - Youth Center Interior Finish Schedule and Room Descriptions provide mechanical exhaust for laundry rooms.

E. OTHER SPECIAL HVAC SYSTEMS AND EQUIPMENT: Consider noise level, service, and efficiency when locating equipment. Do not place HVAC equipment in Outdoor Activity areas. Whenever possible, provide HVAC separate from the other building systems. Apart from other advantages, this will facilitate better filtration of the dust and molds that many youth are particularly sensitive to. In addition to heating and cooling equipment, consider a humidifier/dehumidifier to meet required levels. Also note the following:

- 1) Provide proper exhaust venting for range and clothes dryer.
- 2) HVAC Systems and equipment shall meet the requirements of UFC 4-010-01. This UFC includes specific requirements for air intakes to HVAC systems and emergency air distribution shutoff for example.
- 3) Provide carbon monoxide detectors as required by National Association for the Education of Young Children (NAEYC) accreditation requirements.
- 4) HVAC shut off switch shall be located behind the reception counter.
- 5) Provide a dedicated split air conditioning system for the Communications and Video Monitoring Rooms. Ensure the outdoor condensing unit meets applicable requirements whether located on the ground or wall mounted.

3.12. ENERGY CONSERVATION REQUIREMENTS – NOT USED

See Paragraph 5.10.

3.13. FIRE PROTECTION REQUIREMENTS

A. GENERAL: Requirements are based on NFPA 101 Life Safety Code Assembly and Educational occupancy, where applicable.

B. FIRE SUPPRESSION SYSTEMS:

- 1) Provide complete automatic sprinkler systems according to NFPA 13 Installation of Sprinkler Systems, UFC 3-600-01 Fire Protection Engineering for Facilities, and UFC 4-740-06 Youth Centers for all YCs.
- 2) Sprinkler heads and other equipment on walls and ceiling (exit signs, smoke detectors, etc.) must be protected by a metal "cage" in the High Performance and Multipurpose Rooms to protect from damage from balls.

C. FIRE DETECTION AND ALARM AND MASS NOTIFICATION

- 1) Provide addressable fire alarm and mass notification systems in accordance with NFPA 72 and NFPA 101. Locate control panels in an environmentally controlled location.
- 2) Provide smoke detectors in all environmentally conditioned spaces, including storage over 20 square feet, except for the Prep Area. Also provide smoke detectors at all exterior storage rooms. No heat detectors are required in this facility.
- 3) Provide manual pull stations inside the facility at each exterior exit door.
- 4) Provide a fire alarm transmitter compatible with the installation fire alarm receiving equipment to transmit fire alarm and system supervisory signals to the installation fire alarm reporting center. Consult with the installation Fire Chief or fire system maintenance activity. This may be a sole source item.

- 5) Provide either a graphic or alphanumeric annunciator at the front desk or vestibule.
- 6) Provide audible (voice) and visual notification devices throughout the facility.
- 7) Provide a Mass Notification System in accordance with UFC 4-021-01 and as directed herein. Combine fire alarm and mass notification systems where possible.

3.14. SUSTAINABLE DESIGN – NOT USED

See Paragraphs 5.12 and 6.14

3.15. ENVIRONMENTAL – NOT USED

See Paragraph 6.15

3.16. PERMITS – NOT USED

See Paragraph 6.16

3.17. DEMOLITION – NOT USED

See Paragraph 6.17

3.18. ADDITIONAL FACILITIES – NOT USED

See Paragraph 6.18

3.19. EQUIPMENT AND FURNITURE REQUIREMENTS

Refer to Attachment B - Youth Center Interior Finish Schedule and Room Descriptions

3.19.1. FURNISHINGS – NOT USED

3.19.2. EQUIPMENT – NOT USED

3.20. FACILITY SPECIFIC REFERENCES

The Attachments represent the Army Standards at the time of award. The Standards may be updated through the course of the contract. Information provided with the project task orders will take precedence.

- A. Attachment A – Standard Design Package for Youth Centers Narrative
- B. Attachment B – Youth Center Interior Finish Schedule and Room Descriptions
- C. Attachment C – Standard Design Package, Youth Center for Middle School Youth and Teens, Drawings
- D. Attachment D – Army Youth Center <YC_COOL>Cool</YC_COOL><YC_WARM>Warm</YC_WARM> Color Scheme

ATTACHMENT A

Standard Design Package for Youth Centers Narrative

SAMPLE

ATTACHMENT A

Standard Design Package for Youth Centers Narrative

SAMPLE



US Army Corps of Engineers
Little Rock District

**DA STANDARD DESIGN PACKAGE
YOUTH CENTERS
FOR MIDDLE SCHOOL YOUTH (AGES 11-15)
AND TEENS (AGES 16-18)**

SMALL 60 – 90 CAPACITY
MEDIUM 105 - 135 CAPACITY
LARGE 150 – 180 CAPACITY

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SEPTEMBER 2010

SAMPLE

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SAMPLE

Executive Summary

Narrative of DA Standard Design Youth Centers
For Middle School Youth (Ages 11-15) and Teens (Ages 16-18)
Provided by Family Morale Welfare and Recreation Command

THE ARMY STANDARD FOR YOUTH CENTERS (Feb 08)

Description:

Youth Centers are designed primarily for use by middle school youth (ages 11-15) and teens (ages 16-18). These facilities provide safe, supervised, healthy, accountable and age-appropriate activities for youth and teens. The Youth Center supports opportunities for youth and teens to develop their physical, educational, social, recreational, and emotional needs. The Army Standards for Youth Centers are based on Army Baseline Standards and Department of Defense requirements for certification.

The standards support the framework for Army Youth programs in four Service Areas:

- *Academic Support, Mentoring, and Intervention Services* (i.e., Homework Centers),
- *Life Skills, Citizenship, and Leadership Opportunities* (i.e., Computer Labs, workforce preparation, youth councils)
- *Sports, Fitness and Health Options* (i.e., Multi-Purpose room and outdoor activity space for individual or group sports and fitness activities, skill building clinics; Snack Bar/Culinary Arts area for nutrition counseling and self help skills)
- *Arts, Recreation, and Leisure Activities* (i.e., Areas/activity rooms for self-directed activities, individual or group lessons).

CATEGORY CODE

74066

DESCRIPTION

Youth Center

Facilities covered in this standard are for youth centers for middle school youth (ages 11-15) and teens (ages 16-18). Youth Center capacities are as follows:

Small	60 – 90 capacity
Medium	105 - 135 capacity
Large	150 -180 capacity

Applicability

- The Army Standard applies to Army facilities worldwide.
- The Army Standard is mandatory for all construction projects effective in FY08 and beyond.
- All geographic districts shall incorporate the mandatory design criteria described herein in close coordination with the USACE designated Center of Standardization (COS) for Child and Youth Services.
- All Youth Center projects must be reviewed by the COS and IMCOM Center of Expertise to ensure conformance with the Army Standard.

Waivers:

- Only the Assistant Chief of Staff for Installation Management has authority to approve exceptions to the Army Standards.
- Waivers from the Army Standard must be requested in accordance with AR 420-1 and the Army Facilities Standardization Program Charter, latest edition.
- All waiver requests to the Army Standards require COS conflict resolution prior to submission by the Garrison Commander.

- Garrison Army Standard waiver request submissions must be received in sufficient time to allow complete review by the Facility Design Team and development of recommendations or courses of action for the AFSC to consider prior to implementation into project design.
- Late submissions and/or project delays are NOT sufficient stand-alone justification for accelerated review or other dispensation for not meeting the Army Standard contained herein.

THE ARMY STANDARD FOR YOUTH CENTERS

Item	Mandatory Criteria
Lobby/Central Counter/Reception Desk	Must have a lobby which contains a central counter for clerk to view/observe the youth entering and exiting the facility, as well as, parents and visitors. The configuration and functional relationship between the main entry and the central counter/reception desk must be maintained. Provide communication and data connectivity to include access control and central intercom system.
Patron/Visitor Waiting Area	Must have a waiting area for parents and visitors adjacent to the central counter/reception desk. Waiting area to contain seating and will also serve as an area where a few youth can gather and socialize when not in use by parents/visitors.
Director's Office	Must be located in close proximity to the central counter/reception desk and must be directly accessible from the waiting area. Provide communication and data connectivity.
Administrative Office Space	Administrative office space, with the exception of the Sports and Fitness Director office, is to be located in close proximity to the Director's office and in the vicinity of the facility entry. Provide communication and data connectivity.
Copy/File Room	This room to be within the administrative area. It houses copy machines, printers (other than those dedicated to specific individuals), filing cabinets and storage for general office supplies. Provide adequate electrical and LAN drops
Staff Lounge/Training Room	Must be provided in all facilities and located in the administrative portion of the facility. Provide a solid surface counter top with integral backsplash and single compartment sink/faucet. Provide GFCI electrical outlets above the counter for microwave and other appliances. Provide space for refrigerator and vending machine along with electrical outlets and a water line to support ice making capability in freezer. Must provide space within the lounge/training room for staff to secure belongings (e.g. individual lockers secured to the wall). Provide a minimum of two workstations with computers and internet connectivity and space for table and chairs for staff to work at or eat lunch. Provide communication and data connectivity.
Staff/Visitor Restrooms	Must have handicapped accessible restroom(s) in the entry/lobby of the facility for use by parents, visitors, and staff. Restroom(s) must be separate from those used by youth. Provide one (1) toilet for every 15 full time/full-time equivalent staff on duty at any one given time.

Item	Mandatory Criteria
Technology Lab	Must have technology lab strategically located in close proximity to the entry area. The technology lab is a functional and programming requirement in all Youth Centers. Minimum of 525 square foot area for 15 youth (35 sq ft per youth). This space must accommodate 15 computer workstations for youth. Lab to be arranged in a "U" shape for the purpose of full unobstructed monitoring by the Technology Specialist with LAN drops and four-plex electrical outlets along the wall. For the small facility, this area dual functions as a Technology Lab and Homework Center with 7 computer workstations for youth. Non-static, fire resistant, carpeting is required for this area.
Homework Center	Must provide for a self-contained area adjacent to the Technology Lab in all youth facilities except in the 60 – 90 capacity youth center. In the small youth center, the Homework Center will be incorporated within the Technology Lab. Provide for a minimum of 525 square foot area for 15 youth (35 sq. ft. per youth).
Activity Room(s) – General and Specific	There are two categories of activity rooms: General Activity Room and Special Activity Rooms. <i>General Activity Room(s)</i> for gatherings, club meetings, arts and crafts (with the addition of a sink to include a plaster trap), or for other general uses. For these types of activities, room to accommodate up to 30 youth. <i>Specific Activity Room(s)</i> allow for a variety of indoor activities. Room to afford flexibility in use and designed for more active functions such as dance, yoga, or martial arts. This room is not intended to accommodate team sports. For these types of activities, room to accommodate up to 15 youth.
Commons/Gathering Area	This area is the heart of the program area and a prime gathering place for youth. Space to accommodate 15 youth and depending on the size of the youth center the facility shall have as few as 1 (for the Small facility) and as many as 2 (for the Medium and Large facility). One of the commons areas must be adjacent to the snack bar/culinary arts learning center. Each commons area to be sized a minimum of 675 sq ft. Provide an additional 2 feet of space along circulation routes for locations of moveable cabinets to hold program equipment. A commons area may be used for table games such as pool, ping pong, foosball or air hockey or as a place for youth to gather in a comfortable setting promoting socialization. Install four recessed duplex electrical floor outlets in each common area for electronic table games such as air hockey. Provide for a platform, approximately 16 ft X 18 ft with two risers and a ramp with handrails for handicapped accessibility in the main commons area adjacent to the snack bar. Include vision windows in the wall between the commons area and the multi-purpose room to provide full unobstructed view for youth of activities in the multipurpose room. Vision windows to be at different heights above the finished floor to enable children of various heights the opportunity to view what is happening. Size and material of vision windows to meet fire requirements. The commons area must be provided with diffused or indirect natural lighting to the maximum extent possible. Skylights are not an acceptable means of meeting the natural lighting requirement. Ceiling to be no lower than 15 ft in the main commons area. Provide sound absorbing materials (e.g. noise panels) in this area to prevent echoing and to reduce the noise level.
Snack Bar/Culinary Arts Area	Snack Bar equipment to be NSF commercial grade approved equipment. Culinary Arts area to emulate a "home-type" kitchen environment - equipment for this area to be approved by Center for Health Promotion and Preventive Medicine. Counters to be made of a solid surface polymer, such as "Corian". Both counters to enable youth to sit on stools looking into this area to view staff

Item	Mandatory Criteria
	<p>preparing snacks and participate in cooking activities (lifetime skill). One section of the counter to include a cook top with a sink at the end of the counter to enable youth to wash hands before eating or learning how to prepare food items. Provide for a minimum of 3 duplex outlets underneath the 36" high counter to plug in small appliances such as mixer, blender, etc. The counter on the opposite side, which is to be used for serving snacks, should be raised to 42" high with overhang for knee clearance. Cabinets should be constructed of high end/quality plywood for durability. Particle board not acceptable as plastic laminate does not last- the substrate fails in a short period of time. Must provide for a dry storage area to store food items not refrigerated. Floor drain must be provided.</p> <p>Provide space for 2 vending machines and electrical outlets to support in close proximity to the snack bar area.</p> <p>Preference for dumpster location is in close proximity to the Snack Bar/Culinary Arts Area. Dumpster is not to be placed in front of the facility.</p>
Multi-Purpose Room	<p>Must include a multi-purpose room (High school full basketball court size to include accommodations for bleachers) with an electrically operated drop divider curtain. Ceiling to be minimum clear height as appropriate for high school basketball (24 ft. minimum clear). Bleachers, if built in, to be light weight aluminum and fold into wall only on one side of the multi-purpose room. Provide removable wall padding (mats) for the entire wall space in the multi-purpose room to serve as protection for youth, acoustical attenuation, and reduce maintenance to the walls. Removable mats to serve and dual function as use for gymnastics. Provide variable lighting in this area to support various activities taking place in this space (e.g. sports events and dances). Protective mesh covers will be installed for all external fixtures. Two (2) basketball goals (shatter proof and breakaway) are to be provided for full-court play. Four (4) basketball goals (adjustable height/electrical with manual override/and fold against the wall) are to be provided for half-court play. Must provide markings for basketball full court and 2xhalf court and volleyball. Install flush receptacles for insertion of volleyball stanchions with covers when not in use. Athletic flooring must be multipurpose and resilient to wear to allow for multiple activities to take place (e.g. rollerblading, basketball, volleyball, etc.) Wood flooring is not acceptable. Accommodate for electric score boards and plug in of portable radios, etc. Each end of court will be pre-wired for dual scoreboard installation (that can be used independently for cross court games) and drops for score table usage. Two (2) public restrooms accessible off the corridor from the multi-purpose room to the outside are required. Provide a wall mounted fold out diaper changing table in each of these public restrooms.</p>
Storage Rooms	<p>Large storage and issue rooms adjacent to the multi-purpose room accessible from the interior. Storage is for programming supplies and equipment, as well as, storage for large pieces of sports & fitness equipment, bats, balls, roller skates, etc. Provide a mezzanine above one of the storage areas for uniform storage to be accessed by the CYS Sports & Fitness Director.</p>
Sports Director's Office	<p>Office for the Sports Director to be located in close proximity to the multi-purpose room and storage room(s) for sports and fitness equipment and uniform storage area. Office to also be adjacent to the laundry area as the majority of laundry being done in the youth center will be for uniform washing and drying. Provide communication and data connectivity.</p>

Item	Mandatory Criteria
Laundry Room	Must provide space for residential grade washer(s) and dryer(s) for laundering sports uniforms and other items associated with the operation of a youth center (e.g. props and clothes for drama). Locate laundry room on an exterior wall to allow for horizontal venting of the dryers. Laundry room to be secured with locking mechanism. Provide for a laundry tub and self priming floor drain to prevent sewer gases from filtering into the facility. Provide counter for folding clothes with upper and lower cabinets for storage of laundry materials.
Teen Room/Lounge	When a teen room/lounge is provided, it is to be located so that access can be monitored by the central check-in counter. This space provides older teens (16-18 yrs of age) with their own space to socialize and have access to more independent activities like computers, college preparation, and watching television in a home like environment. Provide data connectivity. Allocation: * Teen room for 15 = 2 LAN drops * Teen room for 30 = 3 LAN drops
*Patio	A covered patio to be accessible off the snack bar/culinary arts area.
Male/Female Toilet Areas for Youth	Separate male and female toilet rooms for youth are required. Requirement is for one toilet and one sink per 15 youth. Where multiple toilet stalls are provided in the male (boys) restroom, one (1) urinal may be substituted for a toilet.
Janitorial Closet	A janitorial closet is required adjacent to the male (boys) and female (girls) toilet rooms. Closet to be equipped with a low mop sink, a place to store janitor's equipment and cleaning supplies, and a rack to promote hanging/air drying of mops. Door must have a locking mechanism and be designed to swing out into the corridor 180 degrees to prevent impeding on emergency egress.
Vision Panels	Vision panels are interior windows in corridor walls and doors that are integral to visual monitoring and provide an additional risk prevention measure. Vision panels in corridor walls shall extend from normal 6'8" – 7'-0" height to 54" above the finished floor. Vision panels in doors to be a minimum of half-height glass and shall be provided with a 12" wide side-lite. Vision panels must be provided in all doors, within the facility, with the exception of the adult restrooms.
Intercom System	Must have a built in intercom system capable of allowing staff to communicate with the main reception desk and other areas of the building.
Video Monitoring System/Closed Circuit Television (CCTV)	Must have video monitoring system to deter and reduce the risk of child abuse and protect staff from unwarranted allegations of abuse. Conduits, power, and cabling are to be installed as indicated on the standard design.
Video Monitoring Equipment Room	Separate room or area will be provided to store the equipment racks for the video monitoring security system. Racks are approximately 48"W x 30"D x 84" H. Special consideration for heat build up is required. Targeted temperature is 70 degrees F. Maximum temperature is 85 degrees F.

Item	Mandatory Criteria
Outdoor Activity Area	Youth outdoor activity area should provide at a minimum: <ul style="list-style-type: none"> * Hard surface patio area with optional shade structure * Open field area should none be accessible to the facility * Hard surface area for basketball Hose bibs and out-door electrical outlet are required.
Parking	Parking for patrons and staff is required. Parking Allocation: 1 parking space per each full time staff; 1 per every 4 patrons, and 60 additional spaces for sporting events. Parking for handicapped to be in accordance with ADA. Buses to deliver and pick up youth curbside on sidewalk that leads directly into the facility. Locate bicycle racks near the facility entrance in a secure location.
Exterior Lighting	Exterior lighting systems provided for parking areas, sidewalks, service yards, service drives, building entrances and perimeter.
Service Road/Drive	Service road/drive must be provided on the side of the building adjacent to the mechanical room, providing vehicular access to the snack bar service entry, mechanical yard, electrical room and storage room. All vehicular pathways must be kept away from children and pedestrian pathways and outdoor activity areas.
Controlled Entry Access	A buzzer security system, with manual override, must be installed to facilitate entry into the facility.
HVAC	HVAC units will provide heating and air conditioning for the entire facility excluding the Mechanical and Electrical Rooms which require only heating. A system with zoning flexibility must be provided to accommodate variations in usage (e.g. evenings, weekends, events).
Mechanical /Electrical Room	Mechanical room to open directly to the exterior of the building with no access to the interior space or direct access to the playground. Mechanical yard must be located away from the outdoor activity area for noise and environmental considerations.
CATV (Cable Television)	Provide empty boxes and conduits for 1 CATV in the teen room and 1 CATV in the staff lounge.
Communication Room	Provide separate room for communication sized to meet the minimum DOIM requirement for electrical boxes and connections.
Drinking Fountains	Drinking fountains to be provided in the interior of the facility.
Energy Policy Act 2005 (EPACT 05) and Executive Order 13423 (E.O. 13423)	Youth Centers shall be designed in compliance with statutory requirements for federal facilities IAW EPACT 05 and E.O. 13423.
Sustainability	Youth Centers are designed to meet current sustainable development and design policy requirements as established by the Department of the Army.

GUIDANCE

Size classification - The size is classified by the number of youth to be accommodated in the primary program space. A separate teen room is dependent on the installation requirement and accounts for the range in facility capacity. An additional 60 youth may be accommodated in the multi-purpose room.

Facility Site – The Child Development Center (CDC) will be evaluated for security requirements in accordance with UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings, latest edition. The facility is not to be sited near or next to facilities that sell or serve alcoholic beverages or tobacco products or in close proximity to an adult recreation facility or Soldier quarters. Parking area and roadways shall be provided with curbs and gutters.

Grading – The site will be graded to drain away from the new structure to existing drainage ditches or storm drain systems.

Utilities – All utilities, except storm water, will be routed from the new structure underground to the existing source.

Landscaping – Irrigation of turf and significant landscaping may be required in geographical areas which are arid. Landscaping is an important tool in the implementation of Force Protection measures. Landscaped earth berms shall be used to provide an attractive natural barrier. Shrubs, bushes, trees, flowers, etc. used around the Youth Center and outdoor activity area shall be evaluated for potential hazard or toxicity. No toxic chemicals or herbicides shall be used to clear the site of unwanted irrigation.

Interior Color Scheme – Standardized interior colors schemes have been developed for the Garrison to select from.

Specific Activity Room(s) – are designed for more active functions such as dance or martial arts. As such, these rooms may need to accommodate different flooring and features (such as mirrors for dance), depending on the intended use. The designer needs to coordinate for any special requirements (e.g. flooring, walls, ceiling height, etc.) for these type activity rooms. Specific activity rooms to accommodate up to 15 youth.

Floor Drains – All toilet and wet areas to include janitor and laundry rooms and multiple locations in the kitchen must have floor drains.

Casework – Provide for solid surfacing counter tops and high quality cabinets. Millwork is required as shown in the Standard Design. Millwork is to be constructed out of plywood. Particle board is not acceptable. Solid surface countertop (or better) must be provided. Materials other than solid surfacing would need IMCOM Center of Expertise approval.

Exterior Windows - Exterior windows (single or double hung operable windows) shall meet the UFC 4-010-01 requirements for ATFP. All windows are to be screened.

Interior Windows - All interior windows shall be tempered safety glass.

Life Safety - The building fire protection systems, shall be designed in accordance with the applicable standards contained in the Unified Facilities Criteria (UFC) 3-600-01, Fire Protection Engineering for Facilities, UFC 4-740-06, Youth Centers, and National Fire Protection Association (NFPA) 101, Life Safety Code. A complete automatic sprinkler system shall be provided in accordance with UFC 3-600-01 and NFPA 13. The fire alarm system shall be designed in accordance with NFPA 72, which will provide pull stations at each exterior exit door and textual (voice) audible and visual (strobes) notification devices. Smoke detectors for Youth Centers will be in accordance with UFC 4-740-06. Placement of the enunciator panel is a local fire department call. If there is no preferred location, then the panel shall be

placed in the entrance of the facility. Where possible, the Mass Notification System (UFC 4-021-01) shall be integrated with the fire alarm system.

Video Monitoring Security System/Closed Circuit Television (CCTV) - AR 415-15 - Appendix L, Information Systems Support is the source of Army policy for funding of video monitoring equipment. MILCON/MCA dollars are to be used for cabling and fittings, connectors, terminal strips, and similar devices needed to install the cable up to the outlet device plate. Operating Maintenance Army (OMA) dollars are used to purchase and install monitors, cameras, parent viewing monitors, operating consoles, etc. for the video surveillance system. The equipment, external to the outlets, is considered personal property.

Accessibility – The Youth Center shall be designed in compliance with the Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

Signage – The facility shall be identified as a “Youth Center”. The installation/garrison or community name or geographic location of the facility may be used for public identification purposes. Location of sign is a site-adapt issue. The facility signage is to be in accordance with the Installation Design Guide.

Antiterrorism/Force Protection – The most current guidance (UFC 4-010-01, Force Protection) must be incorporated into the site layout and standard design using. A Mass Notification System shall also be provided using UFC 4-021-01, Design, and Operation & Maintenance for Mass Notification Systems. To protect the facility and its occupants, consider a natural approach without degrading the visual surroundings as a method of protection.

UFC 4-740-06 –The Army Standards comply with the Unified Criteria for Youth Centers, UFC 4-740-06, dated 12 January 2006. Additional guidance contained within.

SAMPLE

CIVIL

I. GOVERNING CRITERIA:

- A. Architectural and Transportation Barriers Compliance Board, ADA Accessibility Guidelines for Buildings and Facilities; Play Areas
- B. Uniform Federal Accessibility Standards (UFAS)
- C. Americans with Disabilities Act (ADA) “Accessibility Guidelines for Buildings and Facilities”
- D. Unified Facilities Criteria (UFC 4-740-06) Youth Centers

II. SITE LAYOUT:

- A. The Youth Center (YC) shall be located on the building site so that a bus drop-off lane can be provided near the front of the building. The bus drop-off lane shall be in close proximity to the main entry. A sign at the entry to the bus drop-off lane shall read “Bus Drop-Off Lane Only All Other Vehicles Prohibited”
- B. A parking lot shall be provided, with the number of staff and patron spaces designated on the standard drawings. A Site Traffic Impact Study will be done during the site design. The staff parking shall be located in those spaces, which are furthest away from the building. Parking lots and service drives shall be set back from the building the minimum distance required by current Department of Defense Antiterrorism/Force Protection Construction Standards.
- C. The YC Facility will be sited a minimum of 148’ from the installation perimeter and 82’ from trash containers, roadways and parking lots. If these standoff distances are not provided the YC facility will be hardened as described in the “Department of Defense Antiterrorism Minimum Construction Standards for Buildings”. The facility will be separated a minimum of 33’ from other structures. If the building is sited near an installation perimeter the primary access doors will face away from installation perimeter.
- D. A service drive shall be provided on the side of the building adjacent to the mechanical room, providing vehicular access to the kitchen service entry, mechanical yard and storage room. The service drive shall have a controlled access point, with a control structure such as a lockable mechanical arm or locking gate, which prohibits vehicles from passing beyond the required 82’ stand-off distance without being admitted by a staff member. A concrete sidewalk wide enough for small trucks and vans to drive on, shall be provided along the side of the building to provide access for deliveries and service to kitchen, mechanical room and storage room.
- E. A trash enclosure shall be located at the end of the service drive with a paved turn-around, which allows trucks to approach the dumpster head on then back up and turn around to exit.
- F. The facility shall be oriented in a manner, which takes advantage of desirable views. The preference is for visibility of views from within the building to the exterior. Exterior play

areas shall be located as far from drives and parking as possible for both safety and force protection purposes.

G. Fenced mechanical yard shall be provided.

III. OUTDOOR ACTIVITY SPACE:

A large turfed area shall be provided to serve as an outdoor play area. It shall be accessible from the activity room and the adjacent gym door.

IV. GRADING: The site will be graded to drain away from the new structure to existing drainage ditches or storm drain system.

V. PAVEMENT: Asphaltic concrete will be used for both new roads and parking areas. Concrete curb and gutter will be used for all parking areas.

VI. STORM DRAINAGE: The parking areas will be graded to drain into drainage inlets which shall tie in to existing storm drain system. Curb cuts will also be provided as required to keep pavement drained.

VII. UTILITIES: All utilities will be routed from the new structure underground to the existing source. All utility connections shall be in accordance with local, state and federal regulations.

VIII. LANDSCAPING:

A. Landscaped earth berms or large boulders shall be employed to provide an attractive natural barrier, which prevents vehicles from gaining access to buildings beyond the required stand-off distances. It is preferred that force protection requirements be met as much as possible with natural elements in lieu of bollards or other man made devices. Plantings and any site furnishings shall be located so that they do not allow for concealment from observation of explosive devices 6 inches or greater in height.

B. Irrigation of turf and significant landscaping may be required in geographical areas which are arid.

ARCHITECTURAL

I. GOVERNING CRITERIA:

- A. Technical Bulletin “ Occupational and Environmental Health Food Service Sanitation” TB MED 530
- B. NFPA 101, Life Safety Code (latest edition)
- C. International Building Code (latest edition)
- D. Architectural and Transportation Barriers Compliance Board, ADA Accessibility Guidelines for Buildings and Facilities; Building Elements Designed for Children’s Use.
- E. Architectural and Transportation Barriers Compliance Board, ADA Accessibility Guidelines for Buildings and Facilities; Play Areas
- F. Uniform Federal Accessibility Standards (UFAS)
- G. Americans with Disabilities Act (ADA) “Accessibility Guidelines for Buildings and Facilities”
- H. Architectural Woodworking Institute (AWI) Quality Standards (latest edition)
- I. Architectural Sheet Metal Manual, Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) (latest edition)

II. GENERAL: This standard design can be adapted to many differing site conditions in a variety of locations. Some aspects of the design may need to be altered in response to specific site criteria. Refer to individual Installation Design Guides for local requirements on exterior design and details.

- A. Building Exterior: This will be a single story building with exterior finishes which meet the requirements of the installation design guide. A durable brick veneer wainscot may be used below the windows to relate to a youth’s height and to provide protection for the building surface at ground level. Gable or hipped roofs are preferred to give the facility a non-institutional appearance in keeping with th program requirements.
- B. Building Floor Plans: There are three different size buildings for the standard design Youth

Center, Small (60-90 capacity), Medium (105-135 capacity) and Large (150-180 capacity). All three of the buildings are laid out with activity and support spaces surrounding one or more central Commons spaces. Each Commons will have a 43' x 16' activity area, which allows 45 sf of space for 15 youth. The activity portion of the Commons' spaces is surrounded on all sides by an 8' wide circulation space. Many programs will use Commons walls for cabinets or other furniture items therefore the 8' foot of circulation space is required to insure that a minimum of 6' clear is maintained to meet egress requirements. The activity and circulation portions of the Commons will be distinguished from one another by differing floor tile colors or patterns. On the floor plans the Commons areas were shown with a diamond hatch pattern; however this was not intended to control the floor pattern design. The main Commons space will have a 15' high dropped acoustical ceiling to reduce noise in the Commons. The perimeter of the Commons will be surrounded by clerestory windows, translucent panels, dormers or other means which allow natural light into the space. The low roof design at secondary atriums will not allow ceiling heights to be as high as in the main atrium. They shall have a 12' high acoustical ceiling. Skylights are not an acceptable means of meeting the natural lighting requirement for the atrium. Behind the main Commons area all three sizes of the facility shall be provided with a Multi-purpose room. This room shall be sized to accommodate a regulation size full court high school gymnasium. Adjacent to the Multi-Purpose Room Male and Female toilets shall be provided which are also accessible to sports fields outside the building. It is intended that the Multi-Purpose room can function independently of the rest of the building. It can be used for after-hours or weekend functions while the rest of the Youth Center is locked and inaccessible.

- C. Interior Walls: Interior walls will be non-load bearing steel studs with painted gypsum board. Acoustic attenuation blankets will be strategically used inside walls. Epoxy paint will be used on walls in areas subject to marking by the youth. Interior colors will be low maintenance neutrals to mitigate visual clutter and provide a backdrop for colorful artwork. Glass vision panels will be interspersed throughout to maintain visual control within the facility. Vinyl composition tile will be used in activity rooms, the training room, the break room and corridors. Carpet will be used in administrative office areas. The Multi-purpose room will have a resilient athletic floor. Toilets will receive either sheet vinyl or ceramic tile.

III. MASONRY:

- A. If a brick veneer wainscot is used, it shall be founded on concrete footings and shall extend to 2'-2" above the finished floor (AFF) and be topped with a rowlock course, which is slightly sloped to shed water away from the building. The brick veneer shall extend to 15'-9" AFF at the Multi-purpose room and shall be topped with three soldier courses and a rowlock course. Brick veneer shall be anchored to steel studs and other supports.
- B. The Multi-purpose room walls shall be constructed with 12" reinforced concrete masonry units.

- IV. CASEWORK: Cabinets and counters shall be flush overlay design and shall be custom built. Casework shall be custom grade and shall be built to the quality standards specified in AWI Quality Standards for cabinets and casework. Cabinet bases and upper cabinets shall be constructed with interior grade plywood. No particle board shall be used for this purpose. Door design shall be solid flush face. Flush doors shall be hardwood plywood with matching solid hardwood edges. Drawer fronts shall be at least 3/4" solid wood. All exposed surfaces shall be covered with plastic laminate. Countertops and backsplashes shall be solid surface polymer.
- V. EXTERIOR INSULATION AND FINISH SYSTEM (EIFS):
- A. Where allowed by the installation design guide, an exterior insulation and finish system (EIFS) may be used. The EIFS shall be a job fabricated exterior wall covering consisting of insulation board, reinforcing fabric mesh, base coat, finish coat and accessories.
 - B. Direct exterior finish system (DEFS) is defined as an integrally reinforced base coat applied directly to the substrate and a texture protective finish coat. (Essentially the EIFS system without the insulation). The DEFS system shall be applied directly over glass mat gypsum sheathing board in locations indicated on drawings.
- VI. STRUCTURAL STANDING SEAM METAL ROOF (SSSMR) SYSTEM: The SSSMR is the preferred roofing material where it is allowed by the installation design criteria. It shall include the entire roofing system; the standing seam metal panels, fasteners, connectors, roof securement, components and assemblies tested and approved in accordance with ASTM E 1592. In addition the system shall consist of panel finishes, slip sheet, insulation, vapor retarder, all accessories, components, and items such as vents, curbs, skylights; interior and exterior gutters and downspouts; eaves, ridge, hip, valley, rake, gable, wall, or other roof system flashings installed to provide a weathertight roof system.
- VII. DOORS AND FRAMES:
- A. All doors into activity rooms or support spaces which would allow an adult to enter and close the door behind them must have a vision panel in the door. Doors to toilet rooms are an exception to this requirement.
 - B. Steel doors and frames shall be heavy duty (grade II) and comply with ANSI A250.8.. Exterior doors shall be thermally insulated with rigid plastic foam permanently bonded to each face panel.
 - C. Aluminum doors and frames shall be color anodized. Frames shall be double glazed window wall system. Aluminum doors shall have medium stiles and rails and shall be single glazed.
 - D. Wood doors shall be flush with solid cores and shall have premium grade, book matched red oak veneer to receive a natural finish. Wood doors shall comply with the Window and Door Manufacturer's Association (WDMA)) publication NWWDA I.S.1-A.

- E. Overhead rolling doors shall be spring counterbalanced, rolling type, with interlocking slats, complete with guides, fastenings, hood, brackets, and operating mechanisms.

VIII. WINDOWS, GLASS AND GLAZING:

- A. Exterior windows shall be 3' x 5' single or double hung windows
- B. Exterior clerestory windows shall be fixed aluminum windows.
- C. Interior windows shall be 3' x 4' with tempered glazing and painted metal frames.
- D. Glazing in exterior windows shall be of 1" insulated tinted glass.
- E. Glazing in doors and interior windows shall be clear ¼" tempered glass.
- F. Exterior windows and door lites shall meet UFC 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings.

IX. BUILDER'S HARDWARE

- A. Builder's hardware shall conform to Builders Hardware Manufacture's Association (BHMA) publication A156 and the Door and Hardware Institute (DHI) publication A115.
- B. Door hardware shall conform to National Fire Protection Association (NFPA) regulations NFPA 80 (Fire Doors and fire Windows), NFPA 101 (Life Safety Code), and NFPA 105 (Installation of Smoke-Control Door Assemblies).
- C. Door hardware shall be grade 1.
- D. Exterior doors shall have flush type panic hardware.

- XI. ACOUSTICAL TREATMENT: The multipurpose room shall receive acoustical baffles suspended between the top and bottom chords of all bar joists suspended by bar joist flange clamps.

XII. SPECIALTIES:

- A. The Multi-purpose room shall receive a roll-up type gym divider, which divides the room into two equal parts. The curtain shall be suspended from the roof structure fabricated from solid vinyl coated polyester. The curtain shall be raised and lowered with an electric winch. The curtain shall be operated with a spring loaded momentary key switch which requires the person operating it to maintain a constant pressure on the switch until it is raised or lowered to it's proper position. The switch shall be located to full view of the curtain to the operator.
- B. In Activity Rooms which are specifically designed for dance, a 5' high plexi-glass mirror shall be applied to the length of one wall.
- C. The storage room adjacent to the Multi-purpose Room shall be provided with a steel mezzanine for storage of uniforms. It shall be free standing and capable of being erected,

dismantled and relocated solely with the use of hand tools. The floor area of the mezzanine shall be no larger than $\frac{1}{3}$ the area of the room in which it is located. It shall be custom designed by an established firm specializing in mezzanine systems in accordance with the Ninth Edition of the American Institute of Steel Construction (AISC). The design shall be supervised and approved by a licensed professional Engineer. The structure shall also be designed in compliance with the International Building Code (IBC) and the Occupational Health and Safety Administration (OSHA).

Elements of the mezzanine system shall meet the following criteria:

Steel Columns: Reference Structural

W-Beams: Reference Structural

Guardrail: Three rails (11" spacing), 2" square top rail, 1 ½" square intermediate rails, 2"x4" rectangular kick plate. All tubing use in handrail shall be 14 gauge wall thickness.

Stairs: Stairs shall be welded one piece construction and shipped completely assembled with exception of guardrail and designed to meet IBC. Risers shall be closed. Handrail will be provided for both sides of stair and have a 1 ½" grip.

Floor: Floor shall be constructed of metal grating.

- XIII. LIFE SAFETY: The Youth Center shall be designed in compliance with the latest version of the International Building Code (IBC) and with the latest version of the Life Safety Code (NFPA 101). Additionally the following protective measures shall be taken whether or not required by the referenced codes:
- A. The Youth Center shall be protected throughout by an approved automatic sprinkler system.
 - B. The Mechanical room shall be separated from other spaces by fire rated walls per IBC
 - C. The Laundry room shall be separated from other spaces by walls having a minimum 1- hour fire rated construction.
- XIV. ACCESSIBILITY: The Youth Center shall be designed in compliance with the current version of the Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities. Additionally areas accessible to youth shall be in compliance with the ADA Accessibility Guidelines for Buildings and Facilities: Building Elements Designed for Children's Use, published by the Architectural and Transportation Barriers Compliance Board.

SAMPLE

STRUCTURAL

I. GOVERNING CRITERIA:

- a. UFC 1-200-01 General Building Requirements
- b. UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings
- c. UFC 3-310-01 Design: Structural Load Data
- d. International Building Code (as modified by UFC 1-200-01)
- e. AISC Load and Resistance Factor Design Specification for Structural Steel Buildings, Current Edition.
- f. AISC Specification for the Design of Steel Hollow Structural Sections and Hollow Structural Sections Connections Manual.
- g. Building Code Requirements for Reinforced Concrete, ACI 318.
- h. Building Code Requirements for Masonry Structures, ACI 530.
- i. AISI Specification for the Design of Cold-Formed Steel Structural Members.
- j. Minimum Design Loads for Buildings and other structures, ASCE 7.
- k. NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, FEMA 302.
- l. ASTM D 2487 Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).

II. DESCRIPTION:

- a. General: Structural systems described herein are by necessity generic for a prototype design will vary according to site specific design criteria as needed for economy and structural soundness. Site soil conditions, wind and seismic loads, and the economy of different structural systems vary by geographic locale.
- b. Foundation System: The most common and economical foundation system for this structure would be continuous spread footings around the low roof building and around the multi-purpose room perimeters with individual spread footings at interior columns. Floors would be concrete slabs on grade with perimeter turndowns onto the continuous footings. Minimum floor slab construction is 4 in of 3,000 psi compressive strength concrete on 6 in capillary water barrier with a vapor barrier. More expensive alternatives on poor soils include structural supported slabs with drilled piers and grade beams, or ribbed mat foundations (either conventional reinforcement or post-tensioned).
- c. Roof System: Unless the Installation Design Guide specified otherwise, the roof would consist of an architectural standing seam metal roof on 1.5 in steel decking

acting as roof diaphragm carrying lateral wind and seismic loads to the walls. The decking would be supported by steel bar joists and steel wide flange beams. Steel Z-purlins could replace bar joists if economically justified. The multipurpose area roof is pyramid shaped with no interior supports. The roof structure will be most economically framed with intersecting steel trusses placed diagonally across the room. The triangular shaped infill areas can then be framed with bar joists or Z-purlins beneath the steel roof deck.

- d. Wall Systems: The multipurpose room walls will consist of 11-5/8 in thick reinforced concrete masonry unit walls. These walls provide excellent durability and shear strength. Particular attention must be directed towards detailing and constructing the piers between the clerestory windows as these piers must transmit roof dead, live, seismic and wind forces, both in plane and out of plane, through relatively thin wall sections. All other exterior walls will be constructed with concentric or eccentric steel braced frames infilled with light gauge steel studs backing a brick veneer or other architectural wall surface. Tube steel columns and braces are usually the most economical and easy to detail for this application. Interior columns at the atrium clerestory will have to be sized to limit drift of the elevated roof to acceptable levels.

III. DESIGN LOADS:

- a. Roof Live Load: Minimum roof live load of 20 psf with live load reductions allowed per the IBC.
- b. Roof Snow Load: Varies per specific site. Include drift.
- c. Mechanical Floor Equipment Loads and Floor Live Loads: Minimum 150 psf.
- d. Dead Loads: Calculated weights of materials.
- e. Wind and Seismic Loads: Vary per specific site. Loads determined per ASCE 7

4. Design Stresses

- a. Minimum Concrete Compressive Strength: 3,000 psi.
- b. Reinforcing Steel: $F_y = 60$ ksi.
- c. Structural Steel: WF Sections, $F_y = 50$ ksi. HSS Sections, $F_y = 46$ ksi. All Other, $F_y = 36$ ksi.
- d. Drift Limitations: 0.005 times story height unless masonry walls are used, then 0.002 times story height shall be used.

MECHANICAL

I. HEATING, VENTILATION, AIR CONDITIONING

A. Governing Criteria - Heating, ventilating, and air conditioning (HVAC) will be designed in accordance with the latest version of the following:

1. American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Handbooks
2. ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality
3. International Mechanical Code (IMC)
4. National Fire Protection Association (NFPA) 90A, Installation of Air Conditioning and Ventilation Systems.
5. Sheet Metal and Air Conditioning Contractor's National Association (SMACNA) HVAC Duct Construction Standards – Metal and Flexible
6. SMACNA Architectural Sheet Metal Manual
7. SMACNA HVAC Systems – Testing, Adjusting and Balancing
8. Unified Facilities Criteria (UFC) 4-740-06, Youth Centers

B. Functional and Technical Requirements

1. Design Conditions - HVAC design loads shall be based on site-specific weather data from recognized and authoritative sources of weather data. Indoor air quality and ventilation shall conform to current ASHRAE Standard 62.1 requirements. Indoor design conditions shall conform to the following:

	<u>Cooling</u>	<u>Heating</u>
Occupied Space Design Temperatures	78°F / 50% Maximum Relative Humidity	68°F
Unoccupied Space Design Temperatures	N/A	40°F

2. Ventilation Requirements - The Mechanical, Fire Protection and Electrical Rooms shall be automatically ventilated to limit space temperature to 10 degrees F above design outdoor air temperature. An exhaust fan shall ventilate the Laundry Room and Janitorial Closet at a minimum rate of two cubic feet per minute (cfm) per square foot of room's floor space. Toilets shall be exhausted at a minimum rate of 50 cfm per water closet or urinal.

C. Design Objectives and Provisions

1. HVAC units will provide heating and air conditioning for the entire facility excluding the Mechanical and Electrical Rooms, which require only ventilation and heating. HVAC systems shall be designed to meet the requirements of each area as specified herein. At least three potential systems for each area should be considered, prior to selection of the best alternative based upon Life Cycle Cost Analysis (LCCA). When available and cost effective, natural gas shall be used as the fuel alternative for heating purposes.
2. An HVAC system with zoning flexibility shall be provided for the main building including the Technology Lab, Homework Center, Activity Rooms, Commons and Administration Areas, Snack Bar, and Toilets. In addition, the Communication and Video Monitoring Equipment Rooms shall have cool, conditioned air supplied to spaces year-round for heat generation equipment. A separate system shall serve the Multipurpose Room. These systems shall incorporate carbon monoxide (CO) and humidity sensors as well as economizer modes when determined beneficial. Unit heaters will provide heating only to the Mechanical, Fire Protection and Electrical Rooms. Thru-the-wall units, evaporative cooling, and rooftop units are not desired.
3. The air distribution systems shall be designed to maintain noise criteria at an acceptable level. Ductwork will be designed and installed per SMACNA, Class A requirements. Locate outside air intakes a minimum of 10 ft AFF or on the roof of single-story inhabited structures, and restrict access to the intakes as per Force Protection requirements. Fire dampers will be provided in ductwork at firewall penetrations and smoke duct detectors shall be included in the system design as required per NFPA. All mechanical equipment shall be specified with the recommended vibration isolators. Seismic restraints for the specific site location shall be incorporated into the design.
4. Direct digital controls (DDC), outside air temperature, CO sensors, motion sensors and wall-mounted thermostats with dead bands should be used. The control system shall be specified with electric or electronic control devices for all HVAC equipment. The HVAC systems shall be able to connect to a base Energy Monitor and Control System (EMCS) and shall provide data requested by the base. The HVAC systems shall be controllable by the base EMCS as specified by the base. Include emergency shutoff switches in the control system that immediately shut down HVAC systems.

II. PLUMBING

- A. Governing Criteria - Plumbing will be designed in accordance with the latest version of the following:
 1. Americans with Disabilities Act (ADA) "Accessibility Guidelines for Buildings and Facilities"

2. International Plumbing Code (IPC)
3. NFPA 54, National Fuel Gas Code
4. State/Local Plumbing Codes
5. UFC 4-740-06, Youth Centers

B. Functional and Technical Requirements

1. Adequate toilet facilities shall be provided to accommodate the specified capacity of youth and staff assuming an equal number per gender. Domestic cold water service shall be provided for all plumbing fixtures such as toilets, lavatories, and sinks. A water heater shall supply domestic hot water to all specified fixtures. The hot water system shall have a recirculation loop for both the 140°F and 110°F hot water supplies. Frost-proof hose bibs, a water meter, and CFC free water coolers shall be provided as required.
2. When available and cost-effective, natural gas will be used as an energy source for the hot water heater or other specified equipment. The gas distribution system shall be designed in accordance with the National Fuel Gas Code. The interior natural gas, vent, water and waste piping, connected to specified equipment and fixtures shall conform to the IPC and the applicable State/Local Plumbing Codes.

C. Design Objectives and Provisions

1. The supply and waste piping shall meet all the appropriate material and installation requirements and be insulated as required. The fire line, domestic water, natural gas, and sanitary sewer connections will meet all applicable requirements. The water heater shall provide 140°F hot water to the kitchen fixtures. A mixing valve will reduce the water temperature to 110°F for the rest of the facility. Handicapped accessible fixtures will be provided as required. For project sites located in hot, dryer climates, use of outdoor 'water misting' systems shall be considered.

III. FIRE PROTECTION

- #### A. Governing Criteria – The building fire protection system shall be designed in accordance with the latest version of the following:

1. Applicable NFPA codes including NFPA 13, Installation of Sprinkler Systems and NFPA 101, Life Safety Code
2. UFC 3-600-01, Design: Fire Protection Engineering for Facilities

B. Functional and Technical Requirements

1. An automatic wet pipe sprinkler system will be provided for the entire facility. The fire sprinkler system shall be hydraulically designed by a licensed fire protection engineer. A site-specific, preliminary hydraulic calculation of the existing water supply shall be performed prior to final system design. Where any two codes conflict, the more stringent shall apply.

C. Design Objectives and Provisions

1. The fire sprinkler riser shall be located and installed in dedicated space or mechanical room with external access for fire department. Areas in building subject to freezing shall be heated to help prevent freezing. The system shall include communications capabilities to the supporting fire department. After a fire alarm shut-down is cleared at the fire alarm panel, affected mechanical equipment shall automatically re-start.

SAMPLE

ELECTRICAL

I. GENERAL DESIGN CRITERIA

- A. Design Criteria, TI 800-01, (Formerly Architectural and Engineering Instructions, Design Criteria manual).
- B. Unified Federal Guide Specifications.
- C. Electrical Power Supply and Distribution, TM 5-811-1/ AFJMAN 32-1080.
- D. Interior Electrical System, UFC 3-520-01.
- E. Interior Lighting Fixture Sketches, UFGS 26 51 00.
- F. IES Lighting Handbook, published by the Illuminating Engineering Society (IES).
- G. Design: Interior and Exterior Lighting and Controls, UFC 3-530-01.
- H. Grounding, Bonding, and Shielding for Electronic Equipments and Facilities, MIL-HDBK-419A.
- I. Telephone and Network Distribution System Design and Implementation Guide, ETL 1110-3-502
- J. Installation Information Infrastructure Architecture (I3A) Design and Implementation Guide and ECB 2007-14.
- K. Engineering Fire Protection, UFC 3-600-01.
- L. National Fire Alarm Code, NFPA 72.
- M. Facility Planning and Design Guide, MIL-HDBK-1190.
- N. Youth Centers, UFC 4-740-06.
- O. DOD Minimum Antiterrorism Standards for Buildings, UFC 4-010-01
- P. Design and O&M: Mass Notification Systems, 20 Sept. 2006, UFC 4-021-01

II. INTERIOR ELECTRICAL

A. Lighting - Lighting will conform to IES standards. Provide a combination of task and ambient lighting in most of the areas. Compact fluorescent and 4' linear fluorescent T8 fixtures shall be used in most places. Where 3 and 4 lamp fluorescent fixtures are used; 1 or 2 lamps can be on ballast in the fixtures and each group of ballasts can be switched. Provide task lighting in the Lobby area. Light fixtures in the administrative areas and the computer lab will have parabolic lenses. Enclosed surface mounted gasketed fluorescent light fixtures will be provided in the kitchen and the dry food storage room. Provide dedicated fixtures over the gaming tables in the Commons Room along with a variety of other accent and task lighting fixtures. In the Snack Bar area provide task lighting. HID Metal Halide lighting with wire guards will be provided in the multipurpose room with perimeter compact fluorescents multi-level switched for non-sport activities. Zoned lighting should be provided in the Multi-purpose Room and the Activity rooms. Provide a variety of accent lighting fixtures in the Teen Room. Fluorescent fixtures with emergency battery packs will be provided for emergency egress lighting where fluorescent fixtures are used. Battery type emergency lights will be used in the multipurpose room and on exterior fixtures at each egress per NFPA 101. Exit lights will be the LED type. A wire guard shall protect emergency lights and exit lights in the multipurpose room. Footcandle levels will conform to the requirements the IES.

1. Permanently fixed, artificial light sources will be installed to provide at least the following illumination levels:

- a. Lobby, Snack Bar/Vending, – 430 lux (40 foot-candles)
- b. Check-In, Offices, Copy Area, SAC Activity Rooms, Break/ Staff Training Room, Kitchen, General Activity Room, Special Activity Room – 540 lux (50 foot-candles)
- c. Commons, Teen Lounge – 215 to 430 lux (20 to 40 foot-candles)
- d. Homework Room – 500 lux (50 foot-candles)
- e. Toilets – 500 lux (50 foot-candles)
- f. Computer Room - 430 lux (40 foot-candles)
- g. Multipurpose Room – 540 lux,(50 foot-candles) Metal Halide, with perimeter compact fluorescents multi-level switched

B. Power - Interior electrical installation will conform to the requirements of the NEC and applicable Army criteria. The interior electrical distribution system will utilize 277/480 volts, 3-phase, 4-wire system for lighting, HVAC equipment, and additional loads, if this voltage is available at the site. Dry type transformers will be used to provide 120/208 volts, 3-phase, 4-wire systems for lighting, convenience outlets, small motor loads, and other miscellaneous loads, if 3-phase service is available at the site. Interior installation will consist of conductors installed in conduit. Receptacles will be strategically located.

1. Receptacles installed adjacent (within 1830 mm (6 feet)) to a water source in the following locations will be a Ground Fault Circuit Interrupter (GFCI) receptacle.

- a. Snack Bar.
- b. Janitor's closets.
- c. Exterior.
- d. Toilets.
- e. Activity rooms with sink(s).
- f. Staff lounge kitchenettes with sink(s).
- g. Laundry room except for washer and dryer outlets.

2. Receptacles installed in Restrooms shall be Ground Fault Circuit Interrupter (GFCI) receptacles.

3. The normal mounting height for the receptacles will be 450 mm (18 inches) above the floor. The measurement is from the bottom of the plate.

- a. Outlets for under the counter refrigerators should be mounted behind the refrigerators at the standard height of 450 mm (18 inches).

4. Power for the CCTV System:

- a. **Power Supply:** For systems with 64-camera size, or smaller, one (1) 120VAC/20-Amp power drop shall be supplied to the location designated for the CCTV power supply(s). For systems larger than 64-camera size, two (2) 120VAC/20-Amp power drops shall be supplied to the location designated for the CCTV power supply(s).
- b. **Service Equipment Rack (SER):** A 120VAC/30-Amp circuit and receptacle shall be installed in the location designated for the SER.
- c. **Cameras:** Power for the CCTV camera shall be distributed from the power supply (PS) location.
- d. **Note:** The conduit fill rate shall conform to the NEC standard of 40% fill. The camera power cable shall be 2-conductor AWG 18 gauge stranded unshielded Plenum rated, Belden P/N 89740 or equivalent cable type. The camera video cable shall be RG-59U type CCTV Plenum coax, West Penn P/N 25815 or equivalent cable type.

5. Receptacles for cable television will be located near the CATV television outlets.

6. Receptacles shall be provided in the Snack Bar for a refrigerator/freezer and a

food warming unit. Also provide 3 duplex outlets underneath the counter for small appliances. Provide outlets for 2 vending machines in close proximity to the snack bar area.

7. Provide duplex receptacles at 8ft. on-center in the Teen Room. Provide duplex outlets at 4ft. on-center for video games in an area. Provide receptacles at counter height for portable electronic devices.
8. Receptacles for a refrigerator and a microwave shall be provided in the Staff Lounge.
9. Four duplex receptacles shall be provided along the wall in the Technology Lab.
10. Two recessed duplex receptacles shall be installed in the floor in the Commons Area.
11. Power shall be provided for adjustable basketball goals in the Multi-purpose room. Also provide electrical outlets on the walls for the score boards, boom boxes, etc.
12. Additional receptacles should be provided at the Reception Area Counter to handle the large number of items requiring electrical power. The number and location should be coordinated with Facilities Automated Management Systems (FAMS).

C. Fire Alarm System – The Fire alarm system will comply with the requirements of Unified Facilities Criteria (UFC) 3-600-01, Design: Fire Protection Engineering for Facilities and the NFPA 101 Life Safety Code. The location for the building fire alarm control panel will be coordinated with the local Fire authority, but it is generally located in the Electrical Room with a remote annunciator at the primary entrance to the facility. Horn/strobe annunciation will be provided. Horns should produce a chime like sound that is pleasant and distinctive from other alarms in the building. Pull stations will be the non-glass, key reset type. Smoke detectors will be provided in the supply and return air ducts. The HVAC system will be shutdown upon activation of fire alarm system. A separate fire suppression system is required for the kitchen exhaust hood. An alarm signal will be transmitted to the local fire department. This signal must be compatible with the local fire department's equipment.

D. Communication

1. Telephone/Data – All administrative information outlets shall be dual 8-position type RJ45 jacks. Dedicated inside and outside plant ducting space shall be provided for the purpose of fiber optic cable installation. A nylon pull cord shall be installed in all communications conduits including entrance conduits, conduits between the communications

room and station outlets, and conduits having cable. All telephone/data outlets shall be connected from the communications equipment room terminal backboard with two 4-pair, EIA/TIA 568A Category 6, unshielded twisted pair (UTP) solid copper station cable. All single 8-position type RJ45 wall (and pay telephone outlets if desired) shall be connected from the communications equipment room terminal backboard with one 4-pair, EIA/TIA 568A Category 5e, unshielded twisted pair (UTP) solid copper station cable. A 25 mm (1 inch) conduit stub shall be installed from each outlet to a common cable tray mounted above the ceiling. This cable tray shall extend to the communications room. A wall telephone outlet shall be installed in all Communication rooms, Electrical rooms, and Mechanical rooms. Three walls in the Communications room shall be covered with 1220 X 2440 X 19 mm (4 ft X 8 ft X 3/4 inch) plywood with 2 coats of insulating varnish. A minimum of one 120 volt, 20 amp dual AC outlet on a dedicated circuit breaker shall be installed on the communications room terminal backboard. A minimum of a number 6 AWG ground wire shall be installed from the communications room terminal backboard and connected to the building's metallic ground. Sufficient coil length shall be left to reach any part of the telephone backboard. Polyurethane foam duct seal shall be installed in all duct and innerduct entering the building.

2. Networking Equipment - LAN type-networking equipment will be installed in the communications room. LAN type networking equipment is usually GFGI (Government Furnished, Government installed) and Government Connected. Data lines shall be provided to each networking workstation. Networking workstations shall be provided at the front desk, the director's office, and two stations in the training room. The networking workstations shall be connected to the base LAN system.

3. Computer Lab – Data lines for 16 workstations, a printer and a server should be provided from the communications room to the computer lab. At least one voice communication line shall be provided. The computer lab wiring configuration shall be 10BaseT Ethernet twisted pair wiring. The computer lab shall be wired for a local area network (LAN). The computer lab shall have internet accessibility - hook to non-classified network (NIPERNET). For the smaller facility, provide data lines for 7 workstations. Additionally data drops shall be provided:

- Reception Desk – to support CYS computer and electronic sign,
- Teen Lounge – two (2) data lines per group size,
- Director's Office, Administrative Office, Copy Area, Staff Lounge/Training Room,

4. Review – In accordance with ETL 1110-3-502, the communications system design shall be based upon the Installation Information Infrastructure Architecture (I3A) Design and Implementation Guide and shall be reviewed by the Information Systems Engineering Command, Ft. Detrick Engineering Office (ISEC-FDEO).

5. Intercom - A 2-way voice system will be provided between locations designated by the user. The intercom system will be separate from all other systems, and will be

a two-way system in which program staff can communicate with the main reception desk. The master station is generally located at the reception area desk and remote stations are generally located in each activity room, staff lounge, training room and Director's office.

6. CATV (Community Antenna Television) - Signal outlets will be provided in teen room, Commons, game area and staff lounge. A CATV signal outlet shall not be provided in the activity room. 25 mm (1 inch) conduit with a nylon pull cord shall be installed from each outlet back to the communications room.

7. CCTV (Closed Circuit Television monitoring system) – The locations for the cameras, security equipment rack (SER), system administrator workstation, power and signal circuits and outlets shall be designated by the user. Camera signal outlets are generally provided in the following areas:

- a. Homework room.
 - b. Computer Room.
 - c. All activity rooms.
 - d. Waiting Area.
 - e. Reception area (desk/lobby area/main entrance).
 - f. Teen Room
 - g. Multipurpose Room(s)
 - h. Snack Bar
 - i. Commons
 - j. Copy Area
- 1). A pull box shall be installed at the Reception Counter area, Director's Office and School Age Coordinator with an EMT wire path between it and the SER. The EMT shall be a minimum of one (1) inch in diameter and have a pull cord installed within the EMT.
 - 2). A Pull box shall be installed at the Parental Viewing Monitor (PVM) with an EMT wire path between it and the SER. This path may be shared with an EMT camera path to the SER. RG-59/U of the same type as used for the camera video path shall be used for the signal path between the PVM and SER. The EMT shall be a minimum of one (1) inch in diameter to the first pull box of the shared camera path or home run to the SER and have a pull cord installed within the EMT.
 - 3). A 10/100BASE-T CAT 5 circuit shall be provided between the Video Surveillance System (VSS) administrator's office and the SER location. This shall include a RJ-45 receptacle at the administrator's office and the SER location.

- 4). All EMT shall be sized in accordance with the National Electric Code based upon the type, gauge and quantity of cabling and wiring installed within the EMT.
- 5). The CYS VSS video surveillance equipment is GFGI (Government Furnished, Government Installed). All video surveillance security systems shall be coordinated with Headquarters, Department of the Army, Community and Family Support Division for the latest specifications for Video Surveillance Equipment.

E. Alarm – An audible warning device with a sound that is distinctive from other alarms in the building shall be provided at any corridor and activity room exit door, and reception area desk.

1. Local Door Alarms (DPA)

- a. Provide door alarms for local and remote monitoring of the status of a normally closed, door contact.
- b. A horn within the DPA shall intermittently sound (minimum 80dB) and a normally closed, output contact, from the DPA shall be activated whenever a monitored door contact is held open beyond a user adjustable time (0-60 seconds).
- c. An integral key switch shall be provided for alarm shunt and alarm reset. The key switch shall be incorporated into the faceplate of the DPA.
- d. Local DPA alarm and alarm output contact shall reset upon closure of the monitored door contact.
- e. Local DPA alarm output contact shall be monitored for intrusion and end of line (EOL) supervision by a Zone Annunciator at the reception area desk.
- f. The DPA shall be mounted in the wall adjacent to the monitored door(s) at 42 inches A.F.F. The unit shall mount in a 2-gang electrical box with a minimum depth of 2 ½ inches.
- g. Door prop alarm shall be Designed Security, Inc. Model ES411 Series or equivalent.

2. Zone Annunciator

- a. Multi-Zone Annunciator(s) shall be provided for monitoring the status of EOL supervised alarm output contact from the local DPA.
- b. The modular unit shall be state-of-the-art design and have the option of

- providing four (4), eight (8) or twelve (12) zones of visual and audible (80dB) alarm conditions.
 - c. A red flashing LED, audible indication and activation of a global alarm contact upon the reception of an intrusion alarm condition from the DPA. The unit will remain in this mode until the alarm is acknowledged by pressing the ACK button. Acknowledging the alarm silences the audible and sets the zone LED to a steady ON condition until the point is restored (closing of the door contact). Once the point is restored the LED is extinguished.
 - d. Zone Shunt (bypass) shall be available to individually shunt the zones at the Zone Annunciator only. A bi-color zone LED shall illuminate green when in the Zone Shunt condition. In the Zone Shunt condition the DPA at the door(s) shall operate normally.
 - e. EOL Supervision (line faults) shall be annunciated separately for each zone. Annunciation shall be an amber LED and shall not be re-settable until the fault condition is corrected.
 - f. Annunciators shall be flush mounted in standard electrical boxes with a minimum depth of 2 ½ inches as follows: 4 zone-1 gang, 8 zone-2 gang, 12 zone-3 gang.
 - g. The Multi-Zone Annunciator shall be manufactured in the U.S.A.
 - h. The Multi-Zone Annunciator shall be Designed Security, Inc. Model ES600 Series or equivalent.
- F. Cathodic Protection - Cathodic protection will be provided on underground metallic structures in accordance with applicable Army criteria.
- G. Mass Notification System – A Mass notification system shall be provided to provide real-time information to all building occupants or personnel in the immediate vicinity of a building, including exterior egress and gathering areas. The mass notification system shall comply with UFC 4-021-01.

III. EXTERIOR ELECTRICAL

A. Power Requirements - Exterior electrical will conform to the requirements of the NEC, NESC, and applicable Army criteria. If possible, power to the new facility should be three phase at the highest voltage available. If possible, power to the new facility should be provided underground and utilize pad-mounted transformers. The primary to the transformer should be in two 100 mm (4 inch) concrete encased PVC conduits. One conduit is to be a spare with a nylon pulling cord. The secondary of the transformer should be in schedule 80 PVC conduit below ground and rigid conduit above ground.

B. Lighting - Lighting will be provided on the exterior of the building. Area lighting

will be provided for parking and some general areas. Entry way lighting will be provided. Footcandle levels will conform to the requirements the IES and Mil- Hdbk 1190.

C. Communication

1. Telephone/data – A 2-way underground duct bank with 100 mm (4 inch) ducts and 4-1 innerducts will be provided to enter the building.
2. CATV (Community Antenna Television) - A 50 mm (2 inch) conduit stub with nylon pull wire will be provided from the communications room to 1500 mm (5 feet) from the building line. The User will provide the CATV service.
3. CCTV (Closed Circuit Television monitoring system) - Cameras and signal outlets will be provided in locations designated by the user. Cameras are generally provided in the outdoor activity area or playground (main play areas/equipment areas).
 - a. Each Camera signal outlet shall have RG-59/U cable for the video signal to the SER and 18 AWG, single pair stranded copper wire for the low voltage power from the central camera power supplies. The RG-59/U shall have a minimum 20 AWG center conductor and copper braided shield with 95% coverage.
 - b. Each camera shall have a surge protector in the video and low voltage circuits. The surge protector shall be installed at the cable ingress point of the building.

SAMPLE

ATTACHMENT B

Youth Center Interior Finish Schedule and Room Descriptions

SAMPLE



US Army Corps of Engineers
Little Rock District

**DA STANDARD DESIGN PACKAGE
YOUTH CENTERS
FOR MIDDLE SCHOOL YOUTH (AGES 11-15)
AND TEENS (AGES 16-18)**

SMALL 60 – 90 CAPACITY
MEDIUM 105 - 135 CAPACITY
LARGE 150 – 180 CAPACITY

SECTION B
**INTERIOR FINISH SCHEDULE
GENERAL REQUIREMENTS
ROOM DESCRIPTIONS**

SEPTEMBER 2010

SAMPLE

SAMPLE

INTERIOR FINISH SCHEDULE

	ROOM NAME	ROOM AREA SF	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT FT
1	VESTIBULE	74	QT	QT	EPGB	ACT	8
2	CORRIDOR 1	-	VCT	RB	EPGB	ACT	9
3	RECEPTION	138	VCT	RB	EPGB	ACT	9
4	WAITING	-	VCT	RB	EPGB	ACT	9
5	DIRECTOR'S OFFICE	110	CPT	RB	PGB	ACT	9
6	ADMINISTRATIVE OFFICE	100	CPT	RB	PGB	ACT	9
7	COPY/FILE	95	VCT	RB	PGB	ACT	9
8	STAFF LOUNGE/ TRAINING	320	VCT/ CPT	RB	EPGB	ACT	9
9	STAFF/VISTOR HC RESTROOM	70	CT	CT	CT/EPGB	ACT	9
10	CORRIDOR 2 AND VENDING AREA	178 & 75	VCT	RB	EPGB	ACT	9
11 A	SNACK BAR/ CULINARY ARTS	613	QT	QT	EPGB	VACT	9
11 B	PREPARATION AREA	143	QT	QT	EPGB	VACT	9
12	DRY STORAGE	156	QT	QT	EPGB	VACT	9
13	MAIN COMMONS (By Snack Bar)	842	VCT/ CPT	RB	EPGB	ACT	15
14	COMMONS (Large Facility)	832	VCT	RB	EPGB	ACT	11
15	COMMONS /GATHERING AREA(Medium Facility)	223	VCT	RB	EPGB	ACT	10
16	TECHNOLOGY LAB/HOMEWORK CENTER (Small Facility)	650	CPT-A	RB	EPGB	ACT	9
17	TECHNOLOGY LAB (Medium and Large Facilities)	650	CPT-A	RB	EPGB	ACT	9
18	HOMEWORK CENTER (Medium and Large Facilities)	543 (MED) 525 (LARGE)	CPT-A	RB	EPGB	ACT	9

	ROOM NAME	ROOM AREA SF	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT FT
19	ACTIVITY ROOMS, A GENERAL	525	VCT	RB	EPGB	ACT	9
19	ACTIVITY ROOMS, B HOBBY ARTS COMBINATION	525 /1050	VCT	RB	EPGB	ACT	9
19	ACTIVITY ROOMS, C HIGH PERFORMANCE	525 / 1050	ATHL FL	RB	EPGB	IR-ACT	9
20	GENERAL A STORAGE	VARIES	VCT	RB	PGB	ACT	9
20	STORAGE AT B RECEPTION	66	VCT	RB	PGB	ACT	9
20	TECHNOLOGY LAB C STORAGE	VARIES	VCT	RB	PGB	ACT	9
21	MULTI-PURPOSE ROOM	6778	ATHL FL	RB	PCMU	E STRU	24 CLEAR
22	SPORTS DIRECTOR'S OFFICE	169	CPT	RB	PGB	ACT	8
23	LAUNDRY	160	QT	QT	EPGB	EPGB	8
24	MALE (2) SM. FACIL. (3) MED. FACILITY (3) LGE. FACILITY	205-274	CT	CT	CT/EPGB	ACT	8
25	FEMALE (2) SM. FACIL. (3) MED. FACILITY (3) LGE. FACILITY	205-274	CT	CT	CT/EPGB	ACT	8
26	CORRIDOR 3	217	VCT	RB	PCMU	ACT	8
27	JANITOR	92 - 116	QT	QT	EPGB	VACT	8
28	VIDEO MONITORING EQUIPMENT ROOM	70	VCT	RB	PGB	ACT	9
29	COMMUNICATION ROOM	100	CONC	RB	PGB	ACT	8
30	MECHANICAL ROOM	609	CONC	RB	PGB	E STRU	VARIES
31	ELECTRICAL ROOM	100	CONC	RB	PGB	E STRU	VARIES
32	STORAGE, A SPORTS EQUIPMENT	953	CONC	RB	PGB	E STRU	VARIES
32	STORAGE, B SPORTS EQUIPMENT	317	STEEL	-	PGB	E STRU	VARIES

	ROOM NAME	ROOM AREA SF	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT FT
	MEZZANINE						
33	STORAGE, OUTSIDE	87	CONC	RB	PGB	E STRU	9

TEEN ROOM/LOUNGE OPTION

	ROOM NAME	ROOM AREA SF	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HEIGHT FT
34	TEEN ROOM /LOUNGE	1142 (LARGE) 560 (SMALL)	VCT	RB	EPGB	ACT	9
35	STORAGE ROOMS (2) FOR TEEN ROOM /LOUNGE	128/135 (LARGE) 92/92 (SMALL)	VCT	RB	PGB	ACT	9
36	MECHANICAL ROOM FOR TEEN ROOM /LOUNGE	88 (LARGE) 80 (SMALL)	CONC	RB	PGB	E STRU	9
37	CORRIDOR TO TEEN ROOM/LOUNGE	92 (LARGE) 92 (SMALL)	VCT	RB	EPGB	ACT	9

FINISH SCHEDULE LEGEND

- ACT Acoustical Ceiling Tile
- ATHL FL Athletic Floor
- CONC Concrete Floor (Sealed)
- CT Ceramic Tile (Sealed)
- CPT Carpet
- CPT - A Carpet, Anti-Static
- EPGB Epoxy Painted Gypsum Board
- 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

SAMPLE

GENERAL REQUIREMENTS

Youth Centers for Middle School Youth and Teens shall meet the following requirements:

- Cardinal directions are based on plan north.
- Building may be mirrored or rotated on the site.
- Provide audible and visible devices on all four sides of facility exterior.
- Mechanical yard shall be fenced.
- Maintain minimum 6' clearance for means of egress.
- Showers and changing rooms are not acceptable.
- Provide exit notification system (door alarm) with master alarm at reception desk on exterior doors in corridors and activity rooms. Provide manual override.
- Provide mass notification system in accordance with UFC 4-021-01.
- Intercom shall provide communication between main desk and program areas occupied by staff and youth except toilets, electrical, mechanical, communication, and small storage rooms.
- Exterior windows shall be operable and screened.
- Panic Hardware: Provide flush type panic hardware for exterior exit doors
- Provide self-closures for exterior doors and interior corridor doors.
- Provide vision panels in all doors, except adult toilet rooms.
- Provide GFCI outlets per code.
- Due to child protection regulations, automatic motion light switches are allowed only in Mechanical, Electrical, and Communications Rooms (rooms that are not accessible to users and staff of Youth Center).
- Provide radius corners and eased edges on countertops and millwork.
- Provide corner guards on outside corners of interior walls, unless noted otherwise.
- Provide acoustical batt insulation with 5/8" sheet rock in walls between rooms,.
- Family Morale Welfare Recreation Command (FMWRC) will provide and install furniture, fixtures and equipment (FF&E) not included in the building contract.

Washers and dryers will be provided and installed by FMWRC. Contact FMWRC for complete list of all FF&E.

- Kitchen Equipment shall be commercial and NSF approved. Equipment will comply will NFPA requirements including NFPA 96. Contractor shall furnish and install equipment.
- Video Monitoring (CCTV) Requirements: Building construction contractor shall provide the conduit, cabling (wiring), boxes and power to the camera location indicated on the FRP drawings. Family Morale Welfare Recreation Command-Child Youth and School Services (FMWRC-CYSS) will coordinate the installation of the CYS Services Video Surveillance System (VSS) to include installing cameras, head-end unit and other equipment for the operation of the video security system. The Navy (SPAWAR) contracts will have the system installed just after the building is turned over. Installation typically takes around four weeks, but is usually done during non-use hours (at night).
- Plumbing: Provide a minimum of one hose bib on each side of building exterior, including kitchen area. Provide water for bi-level, ADA compliant electric water coolers as shown on drawings. If sensor controlled fixtures are used in adult toilets, sensors must be hardwired.
- Water temperature:
 - Maximum temperature for hot water in child accessible areas shall be 110°F.
 - Water temperature in laundry and kitchen shall be 140°F
 - Water temperature for pots and pan sink and dishwasher shall be 180°F.

Fire Protection: Requirements based on the National Fire Protection Association (NFPA) 101, Life Safety Code for Assembly and Educational Occupancy, where applicable. Fully sprinkled in accordance with NFPA 13 and the Unified Facilities Criteria (UFC) 3-600-01. Fire separations in accordance with UFC 4-740-06, where applicable. Fire alarm system and smoke detection systems shall be provided throughout the facility in accordance with NFPA 72. Smoke detection system is not required by code, but is required by the Army. Audible and visible devices shall be installed on all four exterior sides of the facility.

- Humidity Control. Humidity levels shall conform with UFC 03-410-01FA, except a minimum relative humidity of 35 percent will be maintained in activity rooms to prevent drying of mucous membranes and to control the spread of disease.
- Electrical: National Electrical Code (NEC) will govern minimum electrical requirements.
- HVAC: ASHRAE Handbooks, ASHRAE Standard 62 will govern minimum requirements.

- **CORRECTIONS TO THE ARMY STANDARD:**
The following items are clarifications or updates to the information in the Army Standard for Youth Centers. Where there is a conflict between the information in subparagraphs below and the Army Standard, the information below governs.
 - a. In the references listed in the Army Standard, replace “AR 415-5 – Appendix L” with “AR 420-1, Section VII”.
 - b. CCTV requirements at Reception Desk (Lobby/Central Counter/Reception Desk in the Army Standard) are provided in this document.

SAMPLE

SAMPLE

1. SPACE: Vestibule

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: 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.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to environmental conditions such as changes in air pressure and high humidity, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use and compliance with building codes. **Exterior Doors:** Double 3 foot by 7 foot aluminum doors with full glass meeting ATFP requirements. **Interior Doors:** Double 3 foot by 7 foot aluminum doors with full labeled safety glass.

SPECIAL HARDWARE AND ELECTRICAL REQUIREMENTS: Provide buzzer type access system at entry including following features:

1. buzzer that sounds at reception desk
2. intercom system for communication between reception desk and entry
3. electronic lock system

Features of electronic lock system shall include:

1. control of access into facility at reception desk
2. manual override of electronic lock by key from the outside
3. manual override to allow the doors to remain unlocked
4. "Tell-Tale" light to indicate if doors are locked or unlocked
5. locking mechanism that does not negate the use of panic hardware during emergency evacuation

Provide fire department with a key to manual override

AUTOMATIC DOOR OPERATION REQUIREMENT: Provide ADA approved 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.

SPECIAL ELECTRICAL REQUIREMENTS: Provide a buzzer at inner set of doors that sounds a reception desk. Provide intercom connection with Reception Desk. Provide power for lock mechanism at inner doors.

AUDIO VISUAL DEVICES: Video Monitoring System (CCTV) required. Refer to Video Monitoring System Plan in Standard Design.

SPECIAL HARDWARE REQUIREMENTS: Provide a buzzer

SAMPLE

2. SPACE: Corridor 1, Administration Area

FUNCTIONAL DESCRIPTION: Circulation and emergency egress for staff lounge and administrative offices

OCCUPANTS: Youth, parents, staff and visitors

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Reference Specific Area Accessed

SAMPLE

3. SPACE: Reception

FUNCTIONAL DESCRIPTION: Central counter for clerk to 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.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide one small counter height swing gate that opens 180 degrees with a plastic laminate finish. Match finish and material of gate with reception desk.

CABINETRY: 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. Reception counter will have two levels, 30 inches and 42 inches from the floor. Provide grommets at upper and lower counter for multiple work stations. See Millwork drawings.

ELECTRICAL SPECIAL REQUIREMENTS: Adequate electrical, phone and data ports are required to support computer and electronic sign in functions along with access control, central intercom system and mass notification. In addition to wall outlets required by code, provide a minimum of four quad outlets and four data ports, evenly spaced along the reception counter. Provide duress alarm at front desk. See Electrical Special Requirements for vestibule. Master alarm for exit notification system and manual override for front entry magnetic lock located here.

SPECIAL REQUIREMENTS: Reception desk shall be delineated through the use of a furr-down to 8' above finish floor, which follows the profile of the reception desk. Special lighting shall be provided in the furr-down to light countertops.

4. SPACE: Waiting

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

CABINETRY: Curved bench with soft cushioned seat with washable cover. Cushion 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

ELECTRICAL SPECIAL REQUIREMENTS: Provide power receptacle, conduit with pull string and junction box for cable TV on curved wall.

5. SPACE: Director's Office

FUNCTIONAL DESCRIPTION: Office for the Youth Center Director. Space must be located in close proximity to the central counter/reception desk and must be directly accessible from the waiting area.

OCCUPANTS: One or two staff members and visitors

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

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. Acoustical batt insulation in interior wall cavities is required.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' 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 that allows the door to be opened from the inside while locked.

ELECTRICAL SPECIAL REQUIREMENTS: Provide one electrical and data port per wall.

6. SPACE: Administrative Office

FUNCTIONAL DESCRIPTION: Office for administrative staff

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

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. Acoustical batt insulation in interior wall cavities is required.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' 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 that allows the door to be opened from the inside while locked.

ELECTRICAL SPECIAL REQUIREMENTS: Intercom connection; Internet access; telephone; one electrical and one data port per wall.

7. SPACE: Copy/File

FUNCTIONAL DESCRIPTION: Within the administrative area, this space houses copy machines, shared printers, filing cabinets and storage for general office supplies.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked.

CABINETRY: Adjustable shelving minimum 12" deep.

ELECTRICAL SPECIAL REQUIREMENTS: Electrical/data outlets for copy and fax machine.

SPECIAL REQUIREMENTS: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

Provide space for public address system base unit.

8. SPACE: Staff Lounge / Training

FUNCTIONAL DESCRIPTION: Serves as a combined staff break area and training/distant learning area with individual lockable storage for staff to secure belongings within. Space must be located in the administrative portion of the facility and provide space for at least two workstations with computers and space for table and chairs for staff to work at or eat lunch.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

Wall structure shall be designed to isolate this area from adjacent activity which may create high noise levels.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair.
Exterior Windows: 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide one 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked.

CABINETRY: Provide 8-foot long base cabinet and wall-hung upper cabinet with one stainless steel sink with goose neck faucet. Provide space for residential size refrigerator. 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 36" high.

LOCKERS: Provide half-height, lockable, "z-lockers" 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.

PLUMBING: Provide water line for ice maker in refrigerator.

ELECTRICAL SPECIAL REQUIREMENTS: Provide the following:

- Internet access in training area
- Intercom
- 3 quad electrical and 3 data/telephone ports along outside wall (“north”)
- 1 receptacle on “east” wall
- Two duplex receptacles and two data ports on “south” wall
- Receptacles for refrigerator, coffee maker, appliances and microwave
- Exhaust fan
- Cable TV.

SAMPLE

9. SPACE: Staff/Visitor HC Restroom

FUNCTIONAL DESCRIPTION: Handicapped accessible restroom in the entry/lobby of the facility for staff, visitors and parents. This room must be separate from those used by youth.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping, smooth, non porous, durable, hard surface resistant to scrapes and stains and easy to clean. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Up to 42", salient characteristics include durable, waterproof, hard surface resistant to scrapes and stains that is easily washed. Above 42", Salient characteristics include water resistant surface, easy to clean, maintain and repair.

Acoustical batt insulation in interior wall cavities is required.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include accessibility, ease of cleaning, maintenance and repair. Provide 3 foot wide minimum by 7 foot high stained solid core wood door with lever handle privacy lock and painted metal frame. Door frame and hardware shall be able to withstand constant opening and closing.

PLUMBING: International Plumbing Code, ASHRAE Handbooks, Americans with Disabilities Act (ADA) Requirements will govern the minimum requirements for this space. **Mandatory Plumbing Requirements:** Provide self-priming floor drain. Faucets shall be pre-mixed single push control that meets ADA requirements. Water shall run for fifteen seconds.

SPECIAL REQUIREMENTS: Provide fold-down wall mounted diaper change table.

10. SPACE: Corridor 2, Vending and Recycling

FUNCTIONAL DESCRIPTION: Circulation and exit egress for Snack Bar/Culinary Arts, Commons and Activity Rooms. Space for two vending machines and recycling bins.

OCCUPANTS: Youth, parents, staff and visitors

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE-RATED WALL: Wall separating Vending/Recycling area from Multi-purpose Room shall be one-hour fire-rated wall.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** Reference Specific Area Accessed. The door providing access to the Multi-Purpose Rm shall have a minimum fire resistive rating of $\frac{3}{4}$ hours. **Exterior Doors:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a painted metal frame with rating of heavy duty.

SPECIAL ELECTRICAL REQUIREMENTS: Receptacles for two vending machines.

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

FUNCTIONAL DESCRIPTION: Commercial food preparation and snack bar equipment shall be NSF commercial grade approved equipment. Culinary Arts area is to emulate a "home-type" kitchen environment. Equipment for this area is to be approved by Center for Health Promotion and Preventive Medicine.

OCCUPANTS: Youth and staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: 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.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping. Water-resistant gypsum wallboard protected by a cement backerboard or green board and ceramic tile will be used to sheath stud wall in accordance with TB Med 530.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, impervious to moisture, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Install ceiling in accordance with TB Med 530

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked.

CABINETRY: 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 36" 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".

MECHANICAL SPECIAL REQUIREMENTS: NSF commercial grade approved equipment and exhaust hood in commercial food preparation area; residential exhaust hood with residential fire system over cooktop in demonstration kitchen.

PLUMBING: International Plumbing Code, ASHRAE Handbooks, Americans with Disabilities Act (ADA) Requirements will govern the minimum requirements for this space.

PLUMBING SPECIAL REQUIREMENTS: Residential double sink with stainless steel cover, triple sink, and hand wash sink; goose neck faucets. Provide self priming floor drain.

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.

ELECTRICAL SPECIAL REQUIREMENTS: Provide data port and cable TV Internet access at end of snack bar counter.

SAMPLE

12. SPACE: Dry Storage/Ware Washing

FUNCTIONAL DESCRIPTION: Storage for dry food goods not requiring refrigeration.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: 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.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, impervious to moisture, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Install ceiling in accordance with TB Med 530.

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. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device. Doors shall be a minimum of half-height glass.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

SAMPLE

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

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.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required. Activity areas and circulation spaces are to be differentiated by floor patterns and/or colors.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE-RATED WALL: Wall separating Main Commons from Multi-purpose Room shall be one-hour fire-rated wall extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

SPECIAL ARCHITECTURAL REQUIREMENTS: Features include a carpeted platform, approximately 16'x18' with two closed and carpeted risers with 20" deep tread, a ramp with handrails, which comply with ADA accessibility requirements, and shelves. Powder-coat handrail to match color scheme. See millwork drawings.

MILLWORK: On curved wall, provide 24" wide counter, 42" high with four data/electric ports every two feet. Counter shall be full length of wall. At platform, provide shelves as detailed on millwork drawings.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Interior Vision Panel:** 3' x 4' high impact windows able to withstand multiple sports activities with painted metal frame between Commons and Multi-Purpose Room. Vision Panel shall have minimum fire resistive rating of 1 hour. **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.

DOORS/FRAME: Reference adjacent spaces.

ELECTRICAL SPECIAL REQUIREMENTS: Four recessed duplex electrical floor outlets in activity area of each Commons to support table games, such as air hockey. At platform, two recessed duplex electrical outlets on floor and two duplex electrical outlets on wall.

SPECIAL LIGHTING: Zoned Lighting

SAMPLE

14. SPACE: Second Commons (Large Facility)

FUNCTIONAL DESCRIPTION: Gathering area for youth adjacent to Activity Rooms.

OCCUPANTS: Youth and Staff.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required. Activity areas and circulation spaces are to be differentiated by floor patterns and/or colors.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE-RATED WALL: Wall separating Second Commons from Multi-purpose Room shall be one-hour fire-rated wall extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair.
Exterior Windows: 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided.

DOORS/FRAME: Reference adjacent spaces.

SPECIAL LIGHTING: Zoned Lighting

15. SPACE: Commons/Gathering Area (Medium Facility)

FUNCTIONAL DESCRIPTION: Gathering area for youth adjacent to Activity Rooms.

OCCUPANTS: Youth and Staff.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required. Activity areas and circulation spaces are to be differentiated by floor patterns and/or colors.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Reference adjacent spaces.

ELECTRICAL SPECIAL REQUIREMENTS: Four recessed duplex electrical floor outlets in this area.

SPECIAL LIGHTING: Zoned Lighting

SAMPLE

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

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: Staff and Youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. Flooring shall be anti-static. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

Wall structure shall be designed to isolate this area from adjacent activity which may create high noise levels.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required in accordance with ANSI 512.60-2002 Acoustical Performance Criteria, Design Requirements and Guidelines for Schools.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision 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.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Doors:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a painted metal frame with rating of heavy duty.

Mandatory Mechanical Requirements: Provide HVAC zoning flexible for this space due to heat generating equipment.

ELECTRICAL SPECIAL REQUIREMENTS: Duplex electrical outlets on walls every 4-5 feet apart, 16 Data Outlets, Telephone Outlet.

17. SPACE: Technology Laboratory (Medium and Large Facilities)

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. Flooring shall be anti-static. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

Wall structure shall be designed to isolate this area from adjacent activity which may create high noise levels.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision 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.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** 3 foot wide by 7 foot tall stained wood doors with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Doors:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a painted metal frame with rating of heavy duty.

MECHANICAL SPECIAL REQUIREMENTS: Provide HVAC zoning flexibility for this space due to heat generating equipment.

ELECTRICAL SPECIAL REQUIREMENTS: Duplex electrical outlets on walls every 4-5 feet apart, 20 Data Outlets, Internet Access.

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

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. Flooring shall be anti-static. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

Wall structure shall be designed to isolate this area from adjacent activity which may create high noise levels.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair.
Exterior Windows: 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' window(s) with tempered glazing and painted metal frame.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Doors:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a painted metal frame with rating of heavy duty.

ELECTRICAL SPECIAL REQUIREMENTS: Duplex electrical outlets on walls every 4-5 feet apart, 8 Data Outlets, Internet Access.

19A. SPACE: Activity Rooms, General

FUNCTIONAL DESCRIPTION: A multiple use area for functions such as skill building classes, video games, group meetings and clubs.

OCCUPANTS: Staff and Youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' window(s) with tempered glazing and painted metal frame.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Door:** Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Door:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a metal frame with rating of heavy duty.

ELECTRICAL SPECIAL REQUIREMENTS: 2 Data Ports

19B. SPACE: Activity Room, Hobby Arts Combination

FUNCTIONAL DESCRIPTION: A multiple use area for functions such as arts and crafts and science activities.

OCCUPANTS: Staff and Youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE-RATED WALL: Wall separating Activity Room from Multi-purpose Room shall be one-hour fire-rated wall extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair.
Exterior Windows: 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' window(s) with tempered glazing and painted metal frame.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Door:** Provide 3 foot by 7 foot stained solid core wood doors with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Door:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a metal frame with rating of heavy duty.

CABINET: Provide base cabinet with wall hung cabinet above the full length of wall as shown on plan. Provide in base cabinet two stainless steel sinks with goose neck faucets. 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, 36" high.

PLUMBING: Provide a two compartment, 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 SPECIAL REQUIREMENTS: 2 Data ports

19C. SPACE: Activity Room, High Performance

FUNCTIONAL DESCRIPTION: A multiple use area for more active functions such as dance, interactive physical games or martial arts. Depending on the intended use, coordinate for any special requirements for flooring, walls, ceiling height, unbreakable wall mirror.

OCCUPANTS: Staff and Youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, minimal seams, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required. Floor must be acceptable for multiple physical activity games. Wood flooring is not acceptable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE-RATED WALL: Wall separating Activity Room from Multi-purpose Room shall be one-hour fire-rated wall extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above 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. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. Screens must be provided. **Interior Vision Panel:** 3' by 4' window(s) with tempered glazing and painted metal frame.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Door:** One 3 foot wide by 7 foot tall stained wood door with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Door:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a metal frame with rating of heavy duty.

SPECIAL REQUIREMENTS: Provide 5' high unbreakable mirror to run 75-100% on wall indicated on standard floor plan.

SPECIAL STRUCTURAL REQUIREMENTS: Reinforce walls to support government furnished and government installed sport wall. Coordinate with Furniture Fixtures and Equipment.

ELECTRICAL SPECIAL REQUIREMENTS: 2 Data Ports

20A. SPACE: General Storage

FUNCTIONAL DESCRIPTION: General storage for supplies.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

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.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot solid core stained wood door with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

20B. SPACE: Storage at Reception

FUNCTIONAL DESCRIPTION: Storage area adjacent to the Reception Area to be used for youth to hang coats and store belongings.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

DOORS/FRAME: 4' cased opening.

CABINETRY: Rod(s) for hanging coats and shelving for backpacks to be provided in storage room adjacent to the Reception Area.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

SAMPLE

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

FUNCTIONAL DESCRIPTION: General storage for supplies.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide double 3'x7' solid core stained wood door with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors shall be a minimum of half-height glass.

CABINetry: Adjustable shelving minimum 12" deep.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

SAMPLE

21. SPACE: Multi-Purpose Room

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, minimal seams, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required. Floor must be acceptable for multiple activities, which include basketball, volley ball and roller skating, non competitive physical activities and sports clinics. Wood flooring is not acceptable.

Install flush receptacles for insertion of volleyball stanchions with covers when not in use. 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.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: 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 multipurpose 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 government furnished and government installed climbing wall. See plan for location of climbing wall. Coordinate with Furniture, Fixtures and Equipment package.

SPECIAL EQUIPMENT: Install Government furnished removable wall padding (mats) around room perimeter, except area for climbing wall. 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.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair.
Interior Vision Panel: 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. **Exterior Windows:** Provide clerestory windows or vision panels to provide natural light in the Multi-Purpose Room.

Natural lighting is mandatory for this space and no design of artificial lighting will be accepted. Install glass blocks of Kalwall for glazing. Direct sunlight is not encouraged for this space.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use and compliance to building codes.

Interior Doors: 3 pairs of 3'x7' stained wood doors with half vision-lite; painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. Provide 45-minute fire rated door in fire-rated wall.

Exterior Doors: Provide three pairs of 3'x7' insulated hollow metal exterior doors with half laminated glass conforming to ATFP requirements and metal frames. Doors and frames shall have rating of heavy duty.

MECHANICAL SPECIAL REQUIREMENT: 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.

ELECTRICAL SPECIAL REQUIREMENTS: Receptacle for drop divider curtain, public address system and scoreboard electrical outlets at half court extended.

SPECIAL REQUIREMENTS: Provide protective mesh covers for all external fixtures, including, but not limited to emergency lights, strobe lights, fire alarm and pull stations. Recess all receptacles with protective mesh covers. Install tamper-proof light switches to prevent multi-purpose room lights from being turned off by youth.

Provide four basketball goals for half court play. Half court basketball goals will be manually adjustable to height of 8'-10' and will manually retract to wall. Provide two basketball goals (shatterproof and breakaway) for full court play. Each end of court will be pre-wired for dual score board installation, that can be used independently for cross court games, and drops for score table usage.

22. SPACE: Sports Director's Office

FUNCTIONAL DESCRIPTION: Office for Sports Director.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair with sound absorbing qualities and warm soft texture. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

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. Acoustical batt insulation in interior wall cavities is required.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. **Interior Vision Panel:** 3' by 4' window 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 that allows the door to be opened from the inside while locked.

ELECTRICAL SPECIAL REQUIREMENTS: Intercom; telephone; one electrical receptacle and one data port on each wall.

23. SPACE: Laundry

FUNCTIONAL DESCRIPTION: Space with heavy-duty residential washers and dryers for laundering sports uniforms and other items associated with the operation of a youth center (e.g. props and clothes for drama)

OCCUPANTS: Staff.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: 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.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

FIRE RATING OF MATERIALS: Provide one-hour fire-resistive barrier (walls and ceiling) around the laundry room.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include, durable materials, low maintenance, easy to repair, and with access to mechanical system above ceiling.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot solid core stained wood door with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. Door shall have locking mechanism. Provide 45-minute fire-rated doors.

CABINETRY: Base cabinet with 15" deep laundry sink and with wall hung cabinet above. 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. Counter top shall be solid surface polymer, 36" high. Coordinate with Furniture Fixtures and Equipment for location of clothes hanging rack.

PLUMBING SPECIAL REQUIREMENTS: Provide self priming floor drain; hot & cold water connections for laundry tub and clothes washers; gas connection & exhaust vent for clothes dryers.

ELECTRICAL SPECIAL REQUIREMENTS: Intercom. According to program requirements, provide receptacles for washer & dryer. Coordinate with Furniture, Fixtures and Equipment package.

24. SPACE: Male, (Typical)

FUNCTIONAL DESCRIPTION: Two separate toilet areas for youth (male), one adjacent to Commons; one adjacent to Multi-Purpose Room. Label room "Male".

OCCUPANTS: Male youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping, smooth, non porous, durable, hard surface resistant to scrapes and stains and easy to clean. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Up to 42", salient characteristics include durable, waterproof, hard surface resistant to scrapes and stains that is easily washed. Above 42", Salient characteristics include water resistant surface, easy to clean, maintain and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: No doors in this area. Provide airport style entry to block visibility into room but allow staff to monitor by listening.

PLUMBING SPECIAL REQUIREMENTS: Provide minimum of one water closet with a minimum of one urinal and one self contained lavatory per 18 youth. See plan for location and total number of fixtures. Provide self priming floor drain. Faucets shall be pre-mixed single push control that meets ADA requirements. Water shall run for fifteen seconds.

SPECIAL REQUIREMENTS: Hooks shall be placed on inside of each toilet stall, plus 4 hooks shall be placed on wall outside toilet partitions to assist youth when changing clothes. In restroom off Multi-Purpose Hall, provide fold-down wall mounted diaper change table.

25. SPACE: Female (Typical)

FUNCTIONAL DESCRIPTION: Two separate toilet areas for youth (female), one adjacent to Commons; one adjacent to Multi-Purpose Room. Label room "Female".

OCCUPANTS: Female youth

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping, smooth, non porous, durable, hard surface resistant to scrapes and stains and easy to clean. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Up to 42", salient characteristics include durable, waterproof, hard surface resistant to scrapes and stains that is easily washed. Above 42", Salient characteristics include water resistant surface, easy to clean, maintain and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: No doors in this area. Provide airport style entry to block visibility into room but allow staff to monitor by listening.

PLUMBING REQUIREMENTS: International Plumbing Code, ASHRAE Handbooks, Americans with Disabilities Act (ADA) will govern the minimum requirements for this space.

PLUMBING SPECIAL REQUIREMENTS: Provide minimum of one water closet and one self-contained lavatory per 18 youth. See plan for location and total number of fixtures. Provide self priming floor drain. Provide self priming floor drain. Faucets shall be pre-mixed single push control that meets ADA requirements. Water shall run for fifteen seconds.

SPECIAL REQUIREMENTS: Hooks shall be placed on inside of each toilet stall, plus 4 hooks shall be placed on wall outside toilet partitions to assist youth when changing clothes. In restroom off Multi-Purpose Hall, provide fold-down wall mounted diaper change table.

26. SPACE: Corridor 3, Multi-Purpose

FUNCTIONAL DESCRIPTION: Circulation and exit egress for multi-purpose room, restrooms, laundry and office.

OCCUPANTS: Youth, parents, staff and visitors

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Reference Specific Area Accessed

PLUMBING: International Plumbing Code, ASHRAE Handbooks, Americans with Disabilities Act (ADA) will govern the minimum requirements for this space.

PLUMBING SPECIAL REQUIREMENTS: Two water fountains, including one ADA compliant.

SAMPLE

27. SPACE: Janitor

FUNCTIONAL DESCRIPTION: Space to store janitor's equipment and cleaning supplies. Space is directly accessible from corridor.

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3'x7' stained solid core wood door with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. Door shall swing out 180°.

CABINetry: Adjustable shelving minimum 12" deep.

PLUMBING: International Plumbing Code, ASHRAE Handbooks, Americans with Disabilities Act (ADA) will govern the minimum requirements for this space.

PLUMBING SPECIAL REQUIREMENTS: One janitor's floor mop sink with back flow prevention device; self priming floor drain; wall-hung mop rack.

SPECIAL REQUIREMENT: Interior shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

28. SPACE: Video Monitoring Equipment Room

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: Facility Director

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

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 that allows the door to be opened from the inside while locked.

MECHANICAL SPECIAL REQUIREMENTS: Supply cool, conditioned air to space for heat generating equipment.

ELECTRICAL SPECIAL REQUIREMENTS: Receptacles for CCTV equipment; 30 amp receptacle.

29. SPACE: Communication Room

FUNCTIONAL DESCRIPTION: Communication equipment.

OCCUPANTS: Maintenance personnel

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. The wall adjacent to the Mechanical Rm shall have a minimum fire resistive rating of 1 hour.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Mandatory requirements:** Minimum 3 foot wide by 7 foot tall painted hollow metal door with painted metal frame. Door shall have a locking mechanism.

MECHANICAL SPECIAL REQUIREMENTS: Supply cool, conditioned air to space for heat generating equipment.

ELECTRICAL SPECIAL REQUIREMENTS: Wall Telephone Outlets, Data Ports

SPECIAL REQUIREMENTS: Comply with Technical Guide for Installation Information Infrastructure Architecture (I3A).

30. SPACE: Mechanical Room

FUNCTIONAL DESCRIPTION: Area that will house all HVAC/plumbing equipment. This room should not be located near the outdoor activity area.

OCCUPANTS: Maintenance personnel

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

FIRE-RATED WALL: Interior walls of Mechanical Room shall be one-hour fire-rated walls extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Mandatory requirements:** Minimum one pair 3 foot wide by 7 foot tall painted hollow metal doors with painted metal frame. Each leaf will be designed to swing out at 180 degrees.

MECHANICAL SPECIAL REQUIREMENTS: Ventilation and heat only in this space.

PLUMBING: International Plumbing & Fuel Gas Codes, ASHRAE Handbooks, Americans with Disabilities Act (ADA) Requirements will govern the minimum requirements for this space.

ELECTRICAL SPECIAL REQUIREMENTS: Wall Telephone Outlet

31. SPACE: Electrical Room

FUNCTIONAL DESCRIPTION: Area that will house electrical equipment. This room should not be located near the outdoor activity area.

OCCUPANTS: Maintenance personnel

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. The wall adjacent to the Mechanical shall have a minimum fire resistive rating of 1 hour.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Mandatory requirements:** Minimum one pair 3 foot wide by 7 foot tall painted hollow metal doors with painted metal frame. Each leaf will be designed to swing out at 180 degrees.

MECHANICAL SPECIAL REQUIREMENTS: Ventilation and heat only in this space.

SAMPLE

32A. SPACE: Storage, Sports Equipment

FUNCTIONAL DESCRIPTION: Space for storage of programming supplies and equipment, large pieces of sports and fitness equipment, bats, balls, roller skates, etc. Includes rack storage.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. An economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Interior Doors in wall between Sports Equipment Storage and Multi-Purpose Room:** Pair of 4'x8' doors with top and bottom, flush bolts on one leaf, with half vision-lite, hollow metal frame and self-closing devices and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Doors:** Pair of 4'x8' insulated doors with top and bottom, flush bolts on one leaf, with half vision-lite and hollow metal frame.

ELECTRICAL SPECIAL REQUIREMENTS: Wall Telephone Outlet

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

32B. SPACE: Storage, Sports Equipment Mezzanine

FUNCTIONAL DESCRIPTION: Space for storage of uniforms and seasonal equipment, including rack storage, to be accessed by Sports Director.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. An economical utilitarian finish is suitable.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

SAMPLE

33. SPACE: Storage, Outside

FUNCTIONAL DESCRIPTION: Storage room adjacent to outdoor activity area used to store outdoor recreational equipment.

OCCUPANTS: Staff

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. An economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Interior Door:** Provide 3 foot by 7 foot stained solid core wood door with half vision-lite and painted metal frames and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Door:** Minimum 3 foot wide by 7 foot tall painted hollow metal door with painted metal frame. Door shall be a minimum of half-height glass. Door shall be fitted with a locking mechanism and lever type handle that allows the door to be opened from the inside while locked. Doors, frames, and hardware shall be able to withstand constant opening and closing. Doors shall be provided with self-closing device.

SPECIAL ELECTRICAL REQUIREMENTS: Receptacle for ice machine. Coordinate with Furniture, Fixture and Equipment package.

PLUMBING: Provide cold water line for ice machine and self-priming floor drain.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head

34. SPACE: Teen Room/Lounge Option

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)

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements. **Interior Vision Panel:** 3' by 4' window with tempered glazing and painted metal frame.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** Provide 3 foot wide by 7 foot stained solid core doors with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked. **Exterior Door:** 3'x7' insulated hollow metal exterior doors with half glass panel conforming to ATFP standards and a metal frame with rating of heavy duty.

MILLWORK: Provide built in window seats as shown on floor plan with hinged tops to provide storage.

ELECTRICAL SPECIAL REQUIREMENTS: CATV; Intercom; three (3) data ports for large Teen Room/Lounge; two (2) data ports for small Teen Room/Lounge.

35. SPACE: Storage for Teen Room/Lounge

FUNCTIONAL DESCRIPTION: General storage for supplies

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. Provide 3 foot by 7 foot solid core stained wood door with half vision-lite and painted metal frame and locking mechanism that allows the door to be opened from the inside while locked.

CABINETRY: Adjustable shelving (2) minimum 12" deep.

SPECIAL REQUIREMENT: All storage room interiors shall be marked with a 1-inch wide red line located 18 inches below the lowest point of the fire sprinkler head.

SAMPLE

36. SPACE: Mechanical Room for Teen Room/Lounge

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

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include resistance to slipping and ease of cleaning, maintenance and repair. A base material appropriate to the flooring material used is required. Room is not accessible to staff or patrons therefore an economical utilitarian finish is suitable.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair.

FIRE-RATED WALL: Interior walls of Mechanical Room shall be one-hour fire-rated walls extending to roof deck.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Exposed Structure

DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair. **Mandatory requirements:** Minimum one pair 3 foot wide by 7 foot tall painted hollow metal doors with painted metal frame. Each leaf will be designed to swing out at 180 degrees.

Mandatory Mechanical Requirements: Ventilation and heat only in this space.

PLUMBING: International Plumbing & Fuel Gas Codes, ASHRAE Handbooks, Americans with Disabilities Act (ADA) Requirements will govern the minimum requirements for this space.

ELECTRICAL SPECIAL REQUIREMENTS: Wall Telephone Outlet

37. SPACE: Corridor, Teen Room/Lounge Option

FUNCTIONAL DESCRIPTION: Circulation and exit egress.

OCCUPANTS: Youth, parents, staff and visitors

MINIMUM FLOOR AND BASE CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include slip resistance, abrasion resistance, easy to clean, maintain and repair. A base material appropriate to the flooring material used is required.

MINIMUM WALL CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include ease of cleaning, maintenance and repair. Surface shall be water resistant for easy wiping.

MINIMUM CEILING CONSTRUCTION/SURFACE PERFORMANCE: Salient characteristics include good sound absorbing characteristics, durable materials, low maintenance, easy to repair, and with easy access to mechanical system above ceiling. Ceiling Attenuation Class (CAC) of 38 or higher is required.

WINDOWS: Salient characteristics include ease of cleaning, maintenance and repair. **Exterior Windows:** 3' by 5' single or double hung windows with laminated glazing and conforming to ATFP requirements.

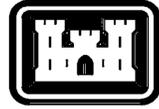
DOORS/FRAME: Salient characteristics include ease of cleaning, maintenance and repair, ability to withstand continuous use, and compliance to building codes. **Interior Doors:** Reference Specific Area Accessed. **Exterior Doors:** 3 foot by 7 foot insulated hollow metal exterior door with half glass panel conforming to ATFP standards and a painted metal frame with rating of heavy duty.

SAMPLE

ATTACHMENT C

Standard Design Package
Youth Center for Middle School Youth and Teens
Drawings

SAMPLE



US Army Corps
of Engineers
Little Rock District

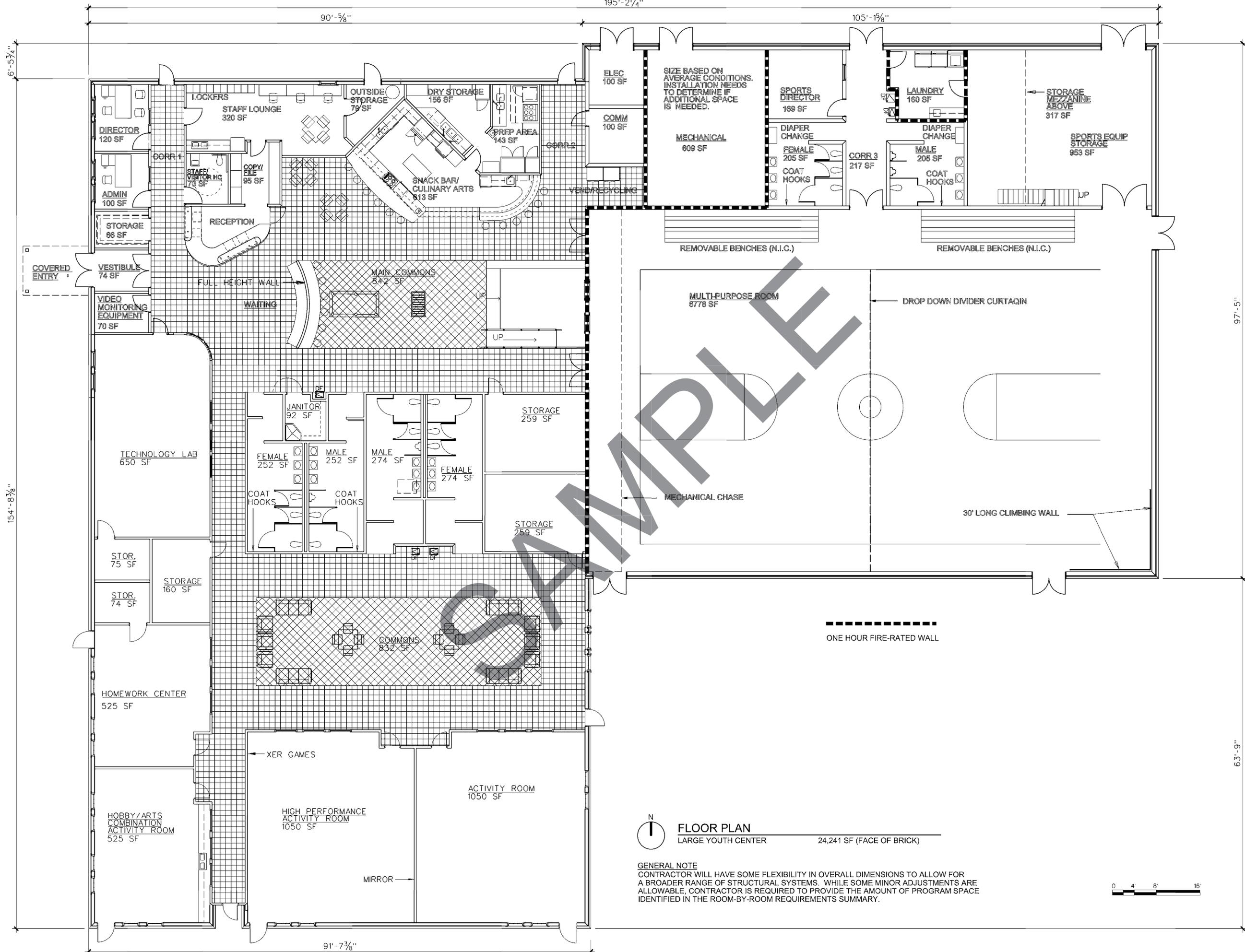
DA STANDARD DESIGN PACKAGE YOUTH CENTERS FOR MIDDLE SCHOOL YOUTH (AGES 11–15) AND TEENS (AGES 16–18)

SMALL CAPACITY (60 – 90 YOUTH)
MEDIUM CAPACITY (105 – 135 YOUTH)
LARGE CAPACITY (150 – 180 YOUTH)

SECTION C – DRAWINGS

SEPTEMBER 2010

SAMPLE

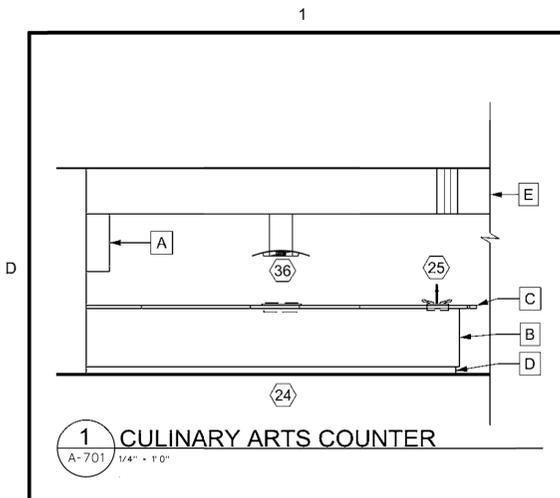


FLOOR PLAN
 LARGE YOUTH CENTER 24,241 SF (FACE OF BRICK)

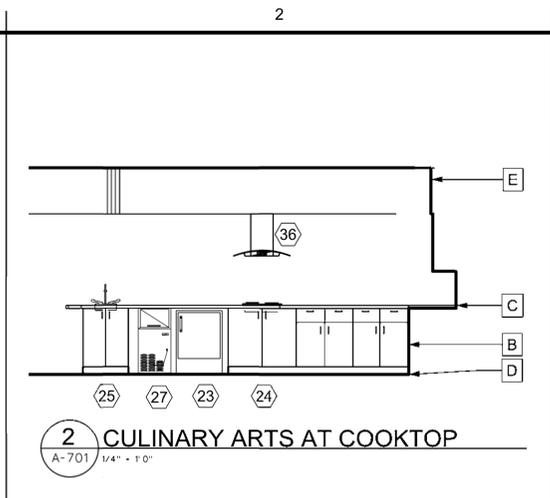
GENERAL NOTE
 CONTRACTOR WILL HAVE SOME FLEXIBILITY IN OVERALL DIMENSIONS TO ALLOW FOR A BROADER RANGE OF STRUCTURAL SYSTEMS. WHILE SOME MINOR ADJUSTMENTS ARE ALLOWABLE, CONTRACTOR IS REQUIRED TO PROVIDE THE AMOUNT OF PROGRAM SPACE IDENTIFIED IN THE ROOM-BY-ROOM REQUIREMENTS SUMMARY.



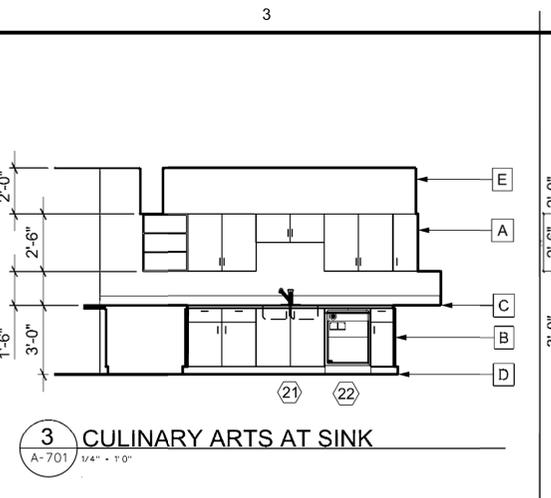
LARGE CAPACITY (150 - 180 YOUTH)
 FLOOR PLAN



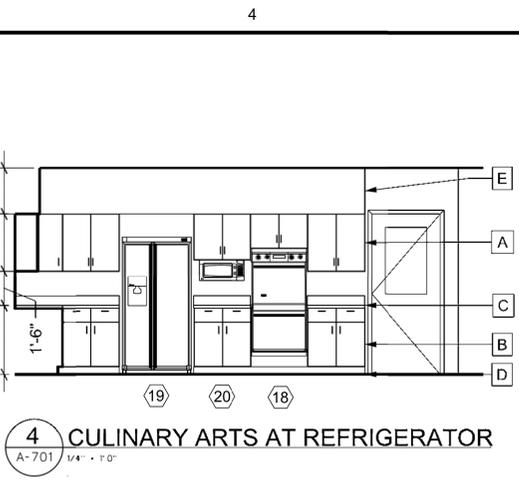
1 CULINARY ARTS COUNTER
A-701 1/4" = 1'-0"



2 CULINARY ARTS AT COOKTOP
A-701 1/4" = 1'-0"



3 CULINARY ARTS AT SINK
A-701 1/4" = 1'-0"



4 CULINARY ARTS AT REFRIGERATOR
A-701 1/4" = 1'-0"

KEYED NOTES - EQUIPMENT

- SEE SHEET A-401, ENLARGED PLAN
- SNACK BAR/CULINARY ARTS

KEYED NOTES-MILLWORK

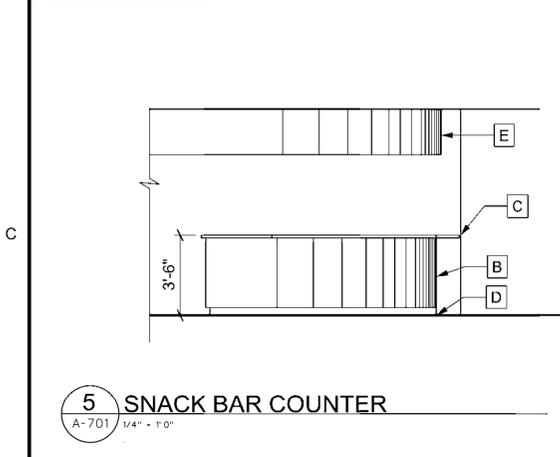
- A WALL MOUNTED CABINETS WITH ADJUSTABLE SHELF (TYPICAL) AND PLASTIC LAMINATE FINISH
- B BASE CABINETS WITH ADJUSTABLE SHELF AND DRAWER ABOVE (TYPICAL) WITH PLASTIC LAMINATE FINISH
- C SOLID SURFACE COUNTERTOPS
- D RESILIENT BASE
- E GYPSUM BOARD SOFFIT, 7'-0" A.F.F.
- F UNDERCOUNTER SUPPORT, AS REQUIRED
- G LOWER CABINET WITH ADJUSTABLE SHELVES WITH PLASTIC LAMINATE FINISH

GENERAL NOTES - MILLWORK

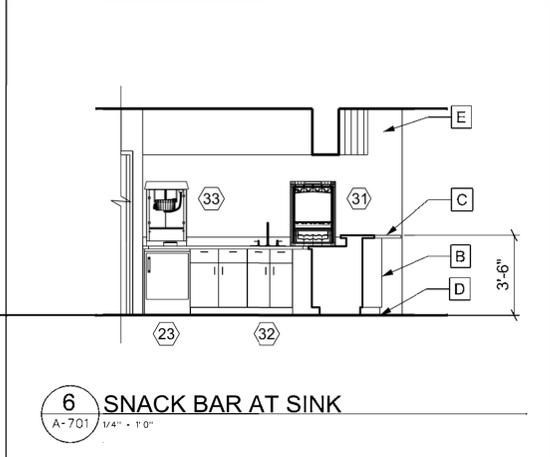
1. CABINET DOORS SHALL HAVE A MINIMUM 12 INCH WIDTH AND A MAXIMUM 24 INCH WIDTH. CABINETS SHALL HAVE A MINIMUM OPENING 24" WIDE.
2. UPPER CABINETS SHALL BE 30", UNLESS OTHERWISE NOTED.
3. COUNTER HEIGHTS SHALL BE 36", UNLESS OTHERWISE NOTED.
4. CABINETS SHALL BE A MINIMUM OF AWI 400B LAMINATE CLAD CABINETS, (USING HIGH PRESSURE LAMINATE ON EXPOSED SURFACES) CUSTOM GRADE. DRAWER SLIDES SHALL BE FULL EXTENSION AND SHALL BE COMMERCIAL GRADE OR BETTER.
5. CABINETS SHALL BE CONSTRUCTED OF HIGH QUALITY PLYWOOD. PARTICLE BOARD IS NOT ACCEPTABLE.
6. WHERE UPPER CABINETS ARE LOCATED OVER BASE CABINETS, THE ENDS OF EACH SHALL ALIGN VERTICALLY.
7. ALL APPLIANCES IN THE SNACK BAR/CULINARY ARTS AREAS SHALL BE NSF RESIDENTIAL GRADE APPROVED EQUIPMENT.
8. ALL APPLIANCES IN THE PREP AREA AND DRY STORAGE AREA SHALL BE OF COMMERCIAL GRADE APPROVED EQUIPMENT.
9. AT RECEPTION DESK, ALLOW 2 CABLE SLOTS AT EACH UPPER CABINET WITH CORRESPONDING SLOTS ON LOWER CABINETS WITH GROMMET AT EACH SLOT.
10. AT RECEPTION DESK, ALLOW 2 QUAD RECEPTACLES AT UPPER CABINET AND 4 QUAD RECEPTACLES AT LOWER CABINET. ALSO ALLOW DATA AND VOICE TO SUPPORT FOUR COMPUTER STATIONS AND 2 WORK STATIONS.

GENERAL NOTES

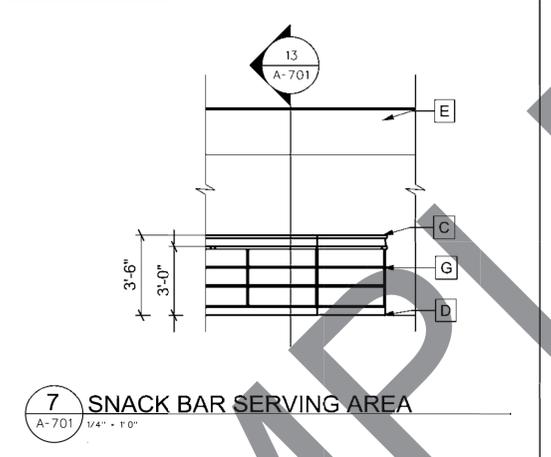
1. CABINETS BEYOND NOT SHOWN ON ELEVATIONS FOR CLARITY.



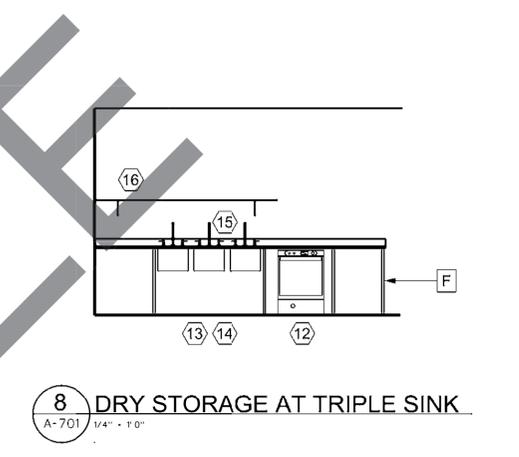
5 SNACK BAR COUNTER
A-701 1/4" = 1'-0"



6 SNACK BAR AT SINK
A-701 1/4" = 1'-0"



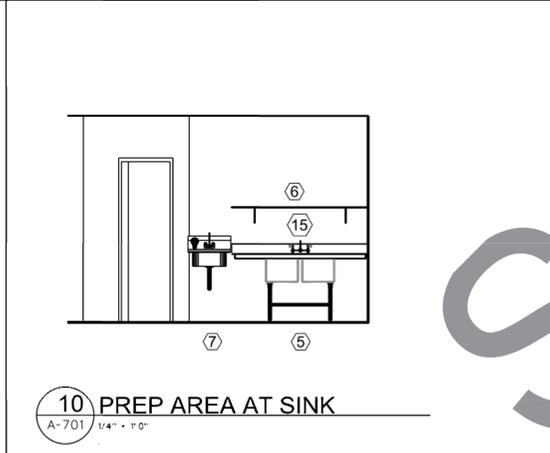
7 SNACK BAR SERVING AREA
A-701 1/4" = 1'-0"



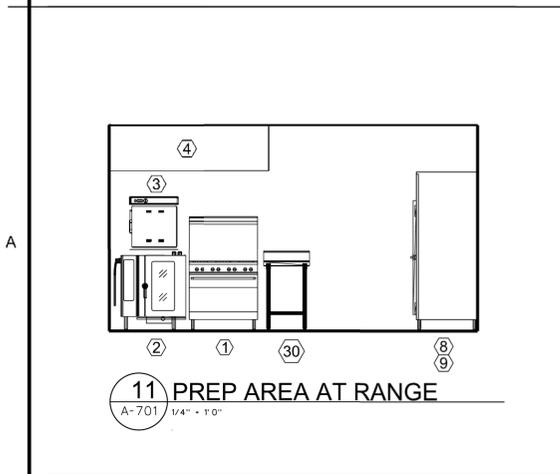
8 DRY STORAGE AT TRIPLE SINK
A-701 1/4" = 1'-0"



9 DRY STORAGE AT SHELVING
A-701 1/4" = 1'-0"



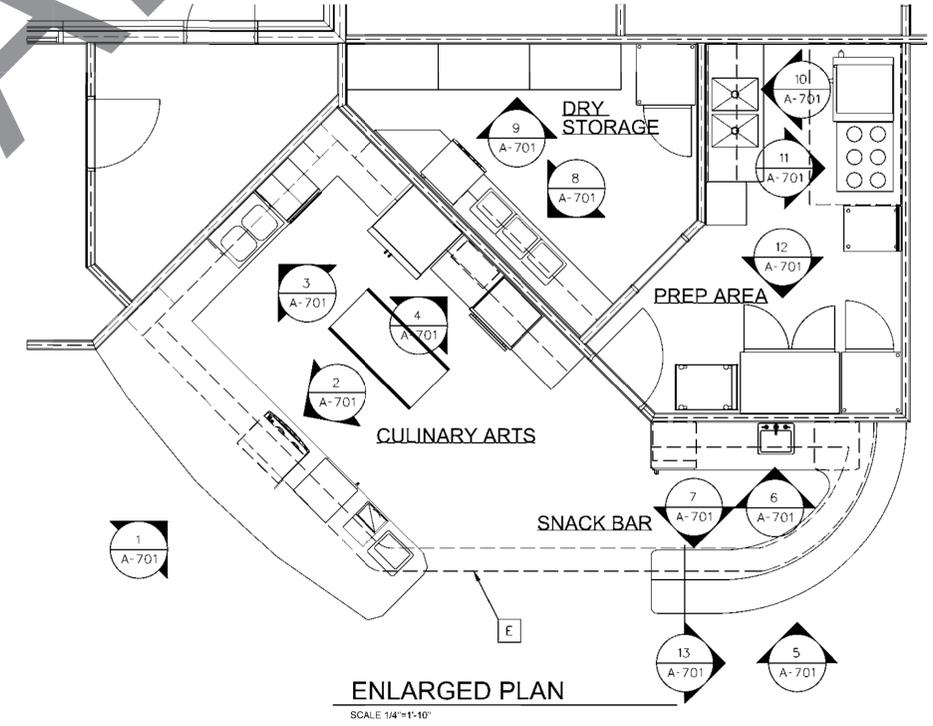
10 PREP AREA AT SINK
A-701 1/4" = 1'-0"



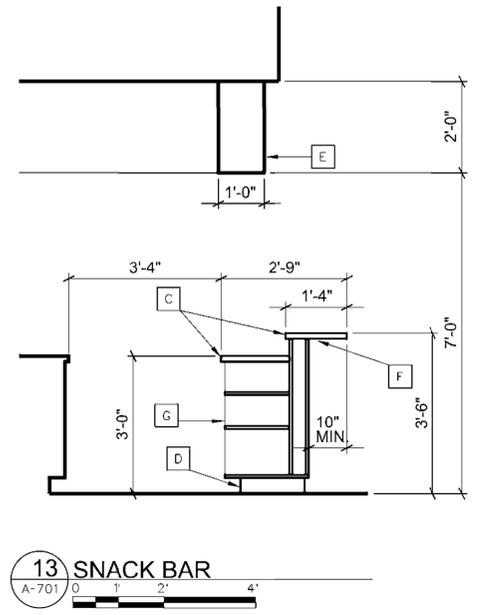
11 PREP AREA AT RANGE
A-701 1/4" = 1'-0"



12 PREP AREA AT FRIG/FREEZER
A-701 1/4" = 1'-0"



ENLARGED PLAN
SCALE 1/4"=1'-10"



13 SNACK BAR
A-701 1/4" = 1'-0"

US Army Corps of Engineers

DATE	DESCRIPTION	APPR	DATE	APPR

DESIGNED BY: U.S. ARMY CORPS OF ENGINEERS	DATE: 08/14/2010	SUBMITTED BY: NCK	DESIGNED BY: NCK	DATE: 08/14/2010	FILE NUMBER: MOBE_LY08A-401.dgn
DESIGNED BY: NCK	DATE: 08/14/2010	DESIGNED BY: NCK	DATE: 08/14/2010	FILE NUMBER: MOBE_LY08A-401.dgn	FILE NAME: ANS D northv.pgn
DESIGNED BY: NCK	DATE: 08/14/2010	DESIGNED BY: NCK	DATE: 08/14/2010	FILE NUMBER: MOBE_LY08A-401.dgn	FILE NAME: ANS D northv.pgn

DA STANDARD DESIGN PACKAGE
YOUTH CENTER - MEDIUM CAPACITY FOR
MIDDLE SCHOOL YOUTH (AGES 11-15)
AND TEENS (AGES 16-18)

MILLWORK DETAILS I

SHEET IDENTIFICATION
A-701

CONTRACTOR (BUILDING THE FACILITY) TO PROVIDE:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

1. POWER FOR THE CCTV SYSTEM:
 - A. CAMERA POWER SUPPLY: 48-64 CAMERA SYSTEM
POWER FOR THE CCTV CAMERAS SHALL BE DISTRIBUTED FROM THE SER RACKMOUNT POWER SUPPLY TO EACH CAMERA LOCATION. (CLASS 2 LIMITED POWER SOURCE - LOW VOLTAGE SYSTEM - 24VAC TO THE CAMERAS).
 - B. SURVEILLANCE EQUIPMENT RACK (SER): TWO (2) 120VAC/30-AMP CIRCUITS SHALL BE SUPPLIED TO THE LOCATION DESIGNATED FOR THE CCTV SER. THE CIRCUITS SHALL BE TERMINATED WITH A 3-PRONG RECEPTACLE (L5-30P3W125V) RECESS MOUNTED IN THE LOCATION DESIGNATED FOR THE SER.
 - C. PARENTAL VIEWING MONITOR (PVM): A STANDARD 110 VAC RECEPTACLE SHALL BE INSTALLED AT THE LOCATION DESIGNATED FOR THE PVMs. THE RECEPTACLE SHALL BE MOUNTED ABOVE THE DROP CEILING AND CAN BE TIED TO ANY CIRCUIT IN THE FACILITY.
 - D. PVM WORKSTATION (PWS): A STANDARD 110 VAC OUTLET SHALL BE MADE AVAILABLE AT THE RECEPTION DESK, FOR THE PVM WORKSTATION.

2. ALL EMT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 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.

3. THE CAMERA POWER CABLE SHALL BE 2-CONDUCTOR AWG 18 GAUGE STRANDED UNSHIELDED, PLENUM RATED CABLE TYPE. THE PREFERRED WIRE IS PRE-MARKED SMARTWIRE™ SECURITY ACCESS CONTROL CABLE 18 AWG.2 CONDUCTOR BARE COPPER, NON-SHIELDED PLENUM. COLOR COMBINATION TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

NOTE:

1. UN-TERMINATED POWER CABLES SHALL BE IDENTIFIED BY EITHER THE CAMERA NUMBER, THE SPECIFIC LOCATION OF THE POWER RUN, OR IN A MANNER DETERMINED BY THE CONTRACTOR.
2. ALL POWER CABLES SHALL BE ONE CONTINUOUS RUN. SPLICING IS NOT ACCEPTABLE.
3. IN THE LOCATION DESIGNATED FOR THE SER LEAVE **20' EXCESS COIL** OF POWER CABLE.

4. THE CAMERA VIDEO CABLE SHALL BE RG-59U TYPE CCTV PLENUM COAX CABLE TYPE. THE PREFERRED CABLE IS PRE-MARKED SMARTWIRE™ RG-59 VIDEO SURVEILLANCE CABLE PLENUM. COLOR COMBINATION TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

NOTE:

1. UN-TERMINATED VIDEO CABLES SHALL BE IDENTIFIED BY EITHER THE CAMERA NUMBER, THE SPECIFIC LOCATION OF THE VIDEO RUN OR IN A MANNER DETERMINED BY THE CONTRACTOR.
2. ALL VIDEO CABLES SHALL BE ONE CONTINUOUS RUN. SPLICING IS NOT ACCEPTABLE.
3. IN THE LOCATION DESIGNATED FOR THE SER LEAVE **20' EXCESS COIL** OF VIDEO CABLE.

5. IN AREAS WITH DROP CEILINGS, 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.

6. IN AREAS W/O DROPPED CEILINGS, 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.

7. 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.

8. 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.

9. REQUEST A #12 SOLID GROUND WIRE AT EACH DESIGNATED EXTERIOR CAMERA LOCATION. SUGGESTED GROUNDING OPTIONS ARE 1) GROUNDING WIRE(S) TO BE ATTACHED TO A GROUND CONDUIT RUN, OR 2) RUN GROUNDING WIRE FROM COMM ROOM/SER LOCATION TO EXTERIOR CAMERAS. IF OPTION #2 IS THE METHOD OF GROUNDING, PROVIDE A #6 OR #8 GROUND WIRE FROM COMM ROOM/SER LOCATION TO A POWER PANEL.

10. 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.

11. 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 ONE (1) INCH IN DIAMETER.

12. HVAC VENT SHOULD NOT BE PLACED ABOVE LOCATION DESIGNATED FOR SER. FORCED HEAT DURING WINTER MONTHS MAY CAUSE OVER-HEATING OF EQUIPMENT.

13. IF THE FACILITY HAS CABLE TRAYS, 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.

14. **ASSUMPTIONS (FOR CAMERA PLACEMENT ON DRAWINGS):**
ALL CEILINGS ARE EIGHT (8) FEET SUSPENDED TILES UNLESS OTHERWISE NOTED.
ALL FURNITURE AND LANDSCAPE PLACEMENT WILL NOT BLOCK CAMERA VIEWS.
BUILDINGS WILL HAVE "OVERHANGS / SOFFITS" TO ACCOMMODATE EXTERIOR CAMERAS.
EXTERIOR CAMERAS ARE PLACED BASED ON EXPECTED LOCATION OF PLAYGROUNDS.

GENERAL NOTES

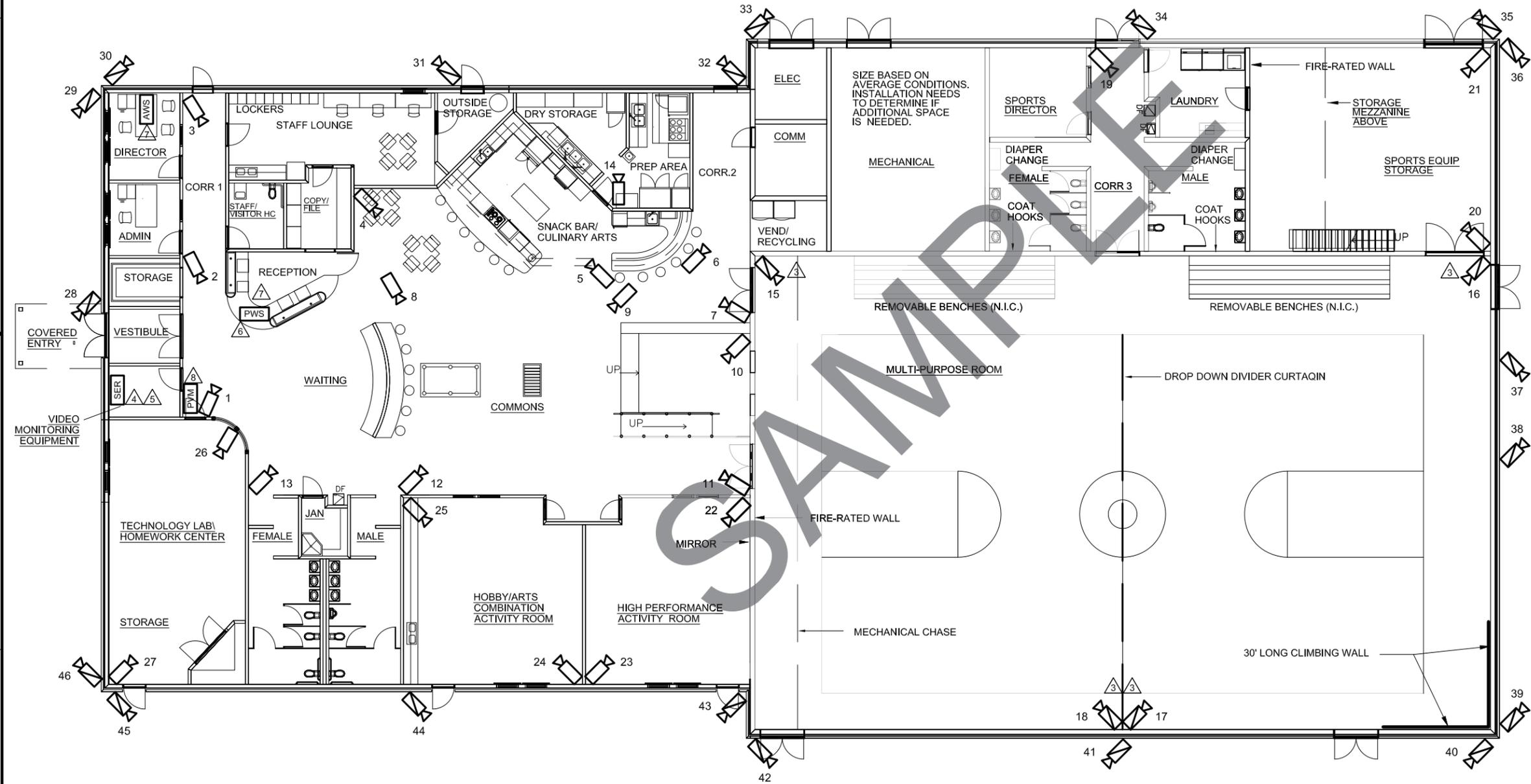
SMALL YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	1 OF 4

NOTES:

1. ALL INTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
2. ALL EXTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
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4. CCTV RACK MOUNT POWER SUPPLIES (SEE NOTE 1A)
5. SURVEILLANCE EQUIPMENT RACK (SER) LOCATION (SEE NOTE 1B).
6. PVM WORKSTATION (SEE NOTE 1D & 11).
7. RJ-45 LAN JACK LOCATION (SEE NOTE 10).
8. PARENTAL VIEWING MONITOR (PVM) LOCATION (SEE NOTE 1C & 11).

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



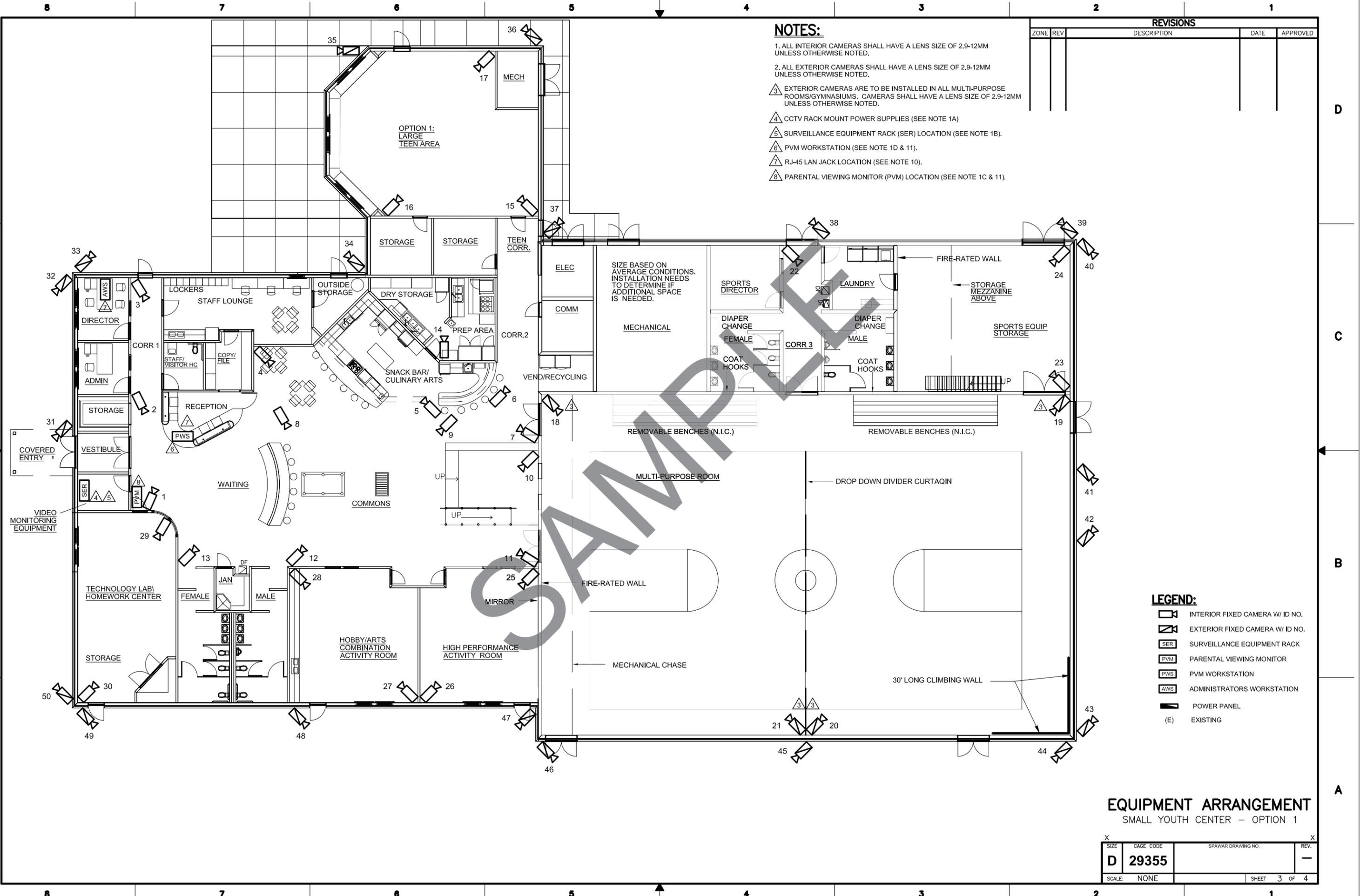
LEGEND:

- INTERIOR FIXED CAMERA W/ ID NO.
- EXTERIOR FIXED CAMERA W/ ID NO.
- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- EXISTING

EQUIPMENT ARRANGEMENT
SMALL YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	2 OF 4

Final Copy - April 23, 2010



NOTES:

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7. RJ-45 LAN JACK LOCATION (SEE NOTE 10).
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

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- EXTERIOR FIXED CAMERA W/ ID NO.
- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- EXISTING

EQUIPMENT ARRANGEMENT
SMALL YOUTH CENTER – OPTION 1

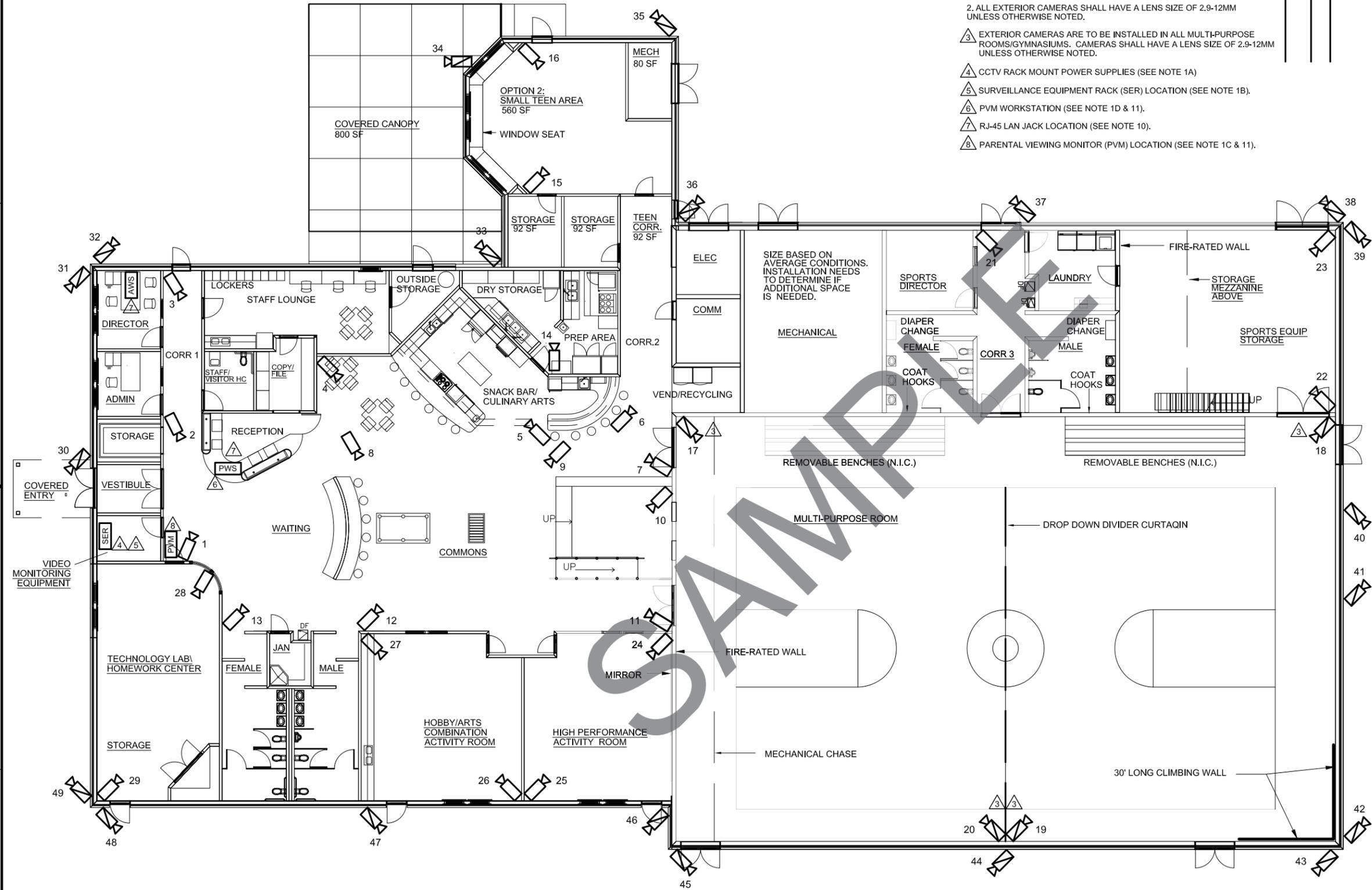
SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		—
SCALE:	NONE	SHEET	3 OF 4

Final Copy - April 23, 2010

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



LEGEND:

- INTERIOR FIXED CAMERA W/ ID NO.
- EXTERIOR FIXED CAMERA W/ ID NO.
- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- EXISTING

EQUIPMENT ARRANGEMENT
SMALL YOUTH CENTER – OPTION 2

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		—
SCALE:	NONE	SHEET	4 OF 4

Final Copy - April 23, 2010

CONTRACTOR (BUILDING THE FACILITY) TO PROVIDE:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

1. POWER FOR THE CCTV SYSTEM:
 - A. CAMERA POWER SUPPLY: 64 CAMERA SYSTEM
POWER FOR THE CCTV CAMERAS SHALL BE DISTRIBUTED FROM THE SER RACKMOUNT POWER SUPPLY TO EACH CAMERA LOCATION. (CLASS 2 LIMITED POWER SOURCE - LOW VOLTAGE SYSTEM - 24VAC TO THE CAMERAS).
 - B. SURVEILLANCE EQUIPMENT RACK (SER): TWO (2) 120VAC/30-AMP CIRCUITS SHALL BE SUPPLIED TO THE LOCATION DESIGNATED FOR THE CCTV SER. THE CIRCUITS SHALL BE TERMINATED WITH A 3-PRONG RECEPTACLE (L5-30P3W125V) RECESS MOUNTED IN THE LOCATION DESIGNATED FOR THE SER.
 - C. PARENTAL VIEWING MONITOR (PVM): A STANDARD 110 VAC RECEPTACLE SHALL BE INSTALLED AT THE LOCATION DESIGNATED FOR THE PVMs. THE RECEPTACLE SHALL BE MOUNTED ABOVE THE DROP CEILING AND CAN BE TIED TO ANY CIRCUIT IN THE FACILITY.
 - D. PVM WORKSTATION (PWS): A STANDARD 110 VAC OUTLET SHALL BE MADE AVAILABLE AT THE RECEPTION DESK, FOR THE PVM WORKSTATION.

2. ALL EMT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 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.

3. THE CAMERA POWER CABLE SHALL BE 2-CONDUCTOR AWG 18 GAUGE STRANDED UNSHIELDED, PLENUM RATED CABLE TYPE. THE PREFERRED WIRE IS PRE-MARKED SMARTWIRE™ SECURITY ACCESS CONTROL CABLE 18 AWG. 2 CONDUCTOR BARE COPPER, NON-SHIELDED PLENUM. COLOR COMBINATION TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

NOTE:

1. UN-TERMINATED POWER CABLES SHALL BE IDENTIFIED BY EITHER THE CAMERA NUMBER, THE SPECIFIC LOCATION OF THE POWER RUN, OR IN A MANNER DETERMINED BY THE CONTRACTOR.
2. ALL POWER CABLES SHALL BE ONE CONTINUOUS RUN. SPLICING IS NOT ACCEPTABLE.
3. IN THE LOCATION DESIGNATED FOR THE SER LEAVE **20' EXCESS COIL** OF POWER CABLE.

4. THE CAMERA VIDEO CABLE SHALL BE RG-59U TYPE CCTV PLENUM COAX CABLE TYPE. THE PREFERRED CABLE IS PRE-MARKED SMARTWIRE™ RG-59 VIDEO SURVEILLANCE CABLE PLENUM. COLOR COMBINATION TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

NOTE:

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3. IN THE LOCATION DESIGNATED FOR THE SER LEAVE **20' EXCESS COIL** OF VIDEO CABLE.

5. IN AREAS WITH DROP CEILINGS, 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.

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9. REQUEST A #12 SOLID GROUND WIRE AT EACH DESIGNATED EXTERIOR CAMERA LOCATION. SUGGESTED GROUNDING OPTIONS ARE 1) GROUNDING WIRE(S) TO BE ATTACHED TO A GROUND CONDUIT RUN, OR 2) RUN GROUNDING WIRE FROM COMM ROOM/SER LOCATION TO EXTERIOR CAMERAS. IF OPTION #2 IS THE METHOD OF GROUNDING, PROVIDE A #6 OR #8 GROUND WIRE FROM COMM ROOM/SER LOCATION TO A POWER PANEL.

10. 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.

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12. HVAC VENT SHOULD NOT BE PLACED ABOVE LOCATION DESIGNATED FOR SER. FORCED HEAT DURING WINTER MONTHS MAY CAUSE OVER-HEATING OF EQUIPMENT.

13. IF THE FACILITY HAS CABLE TRAYS, 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.

14. **ASSUMPTIONS (FOR CAMERA PLACEMENT ON DRAWINGS):**
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GENERAL NOTES

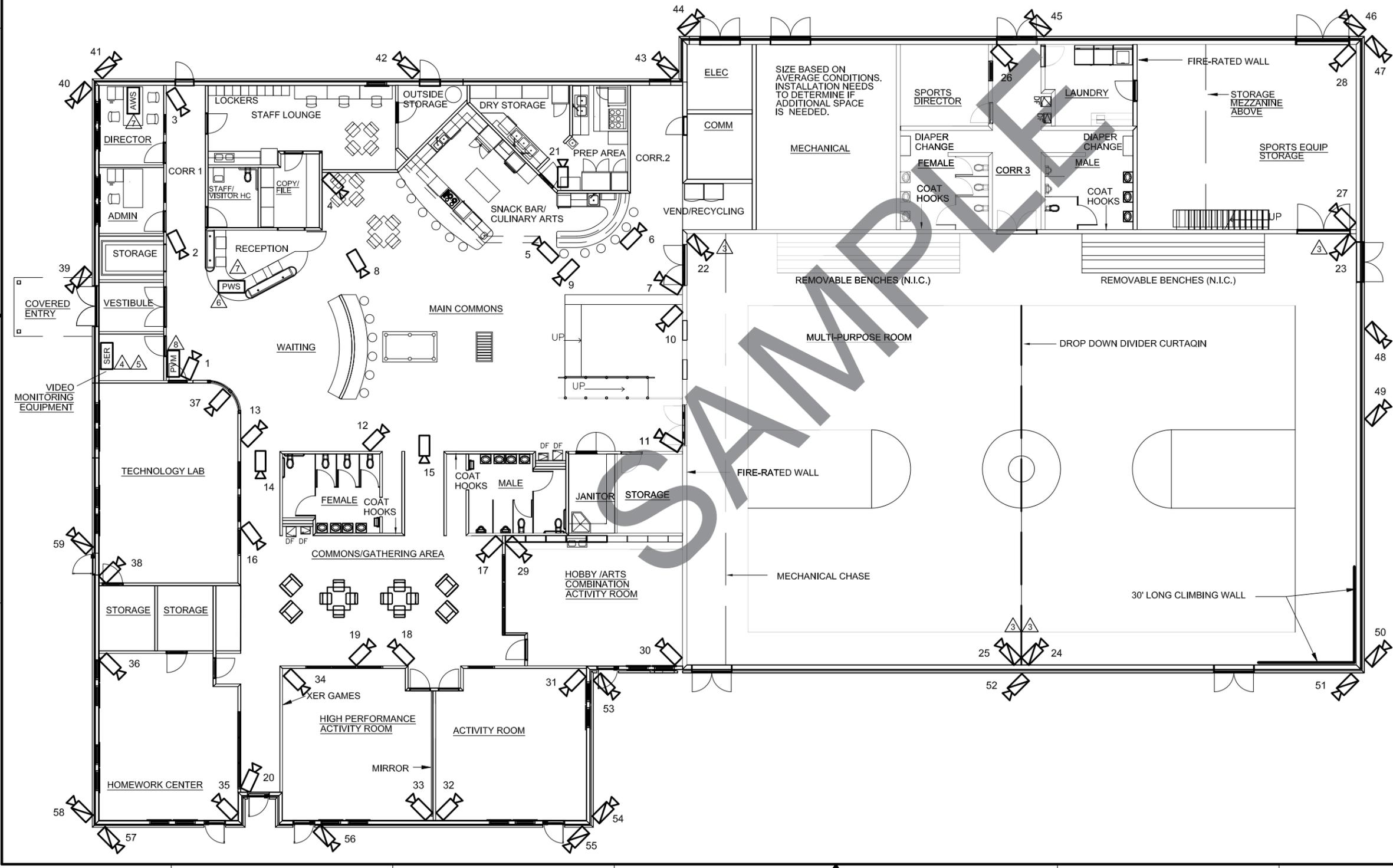
MEDIUM YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	1 OF 4

NOTES:

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5. SURVEILLANCE EQUIPMENT RACK (SER) LOCATION (SEE NOTE 1B).
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7. RJ-45 LAN JACK LOCATION (SEE NOTE 10).
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



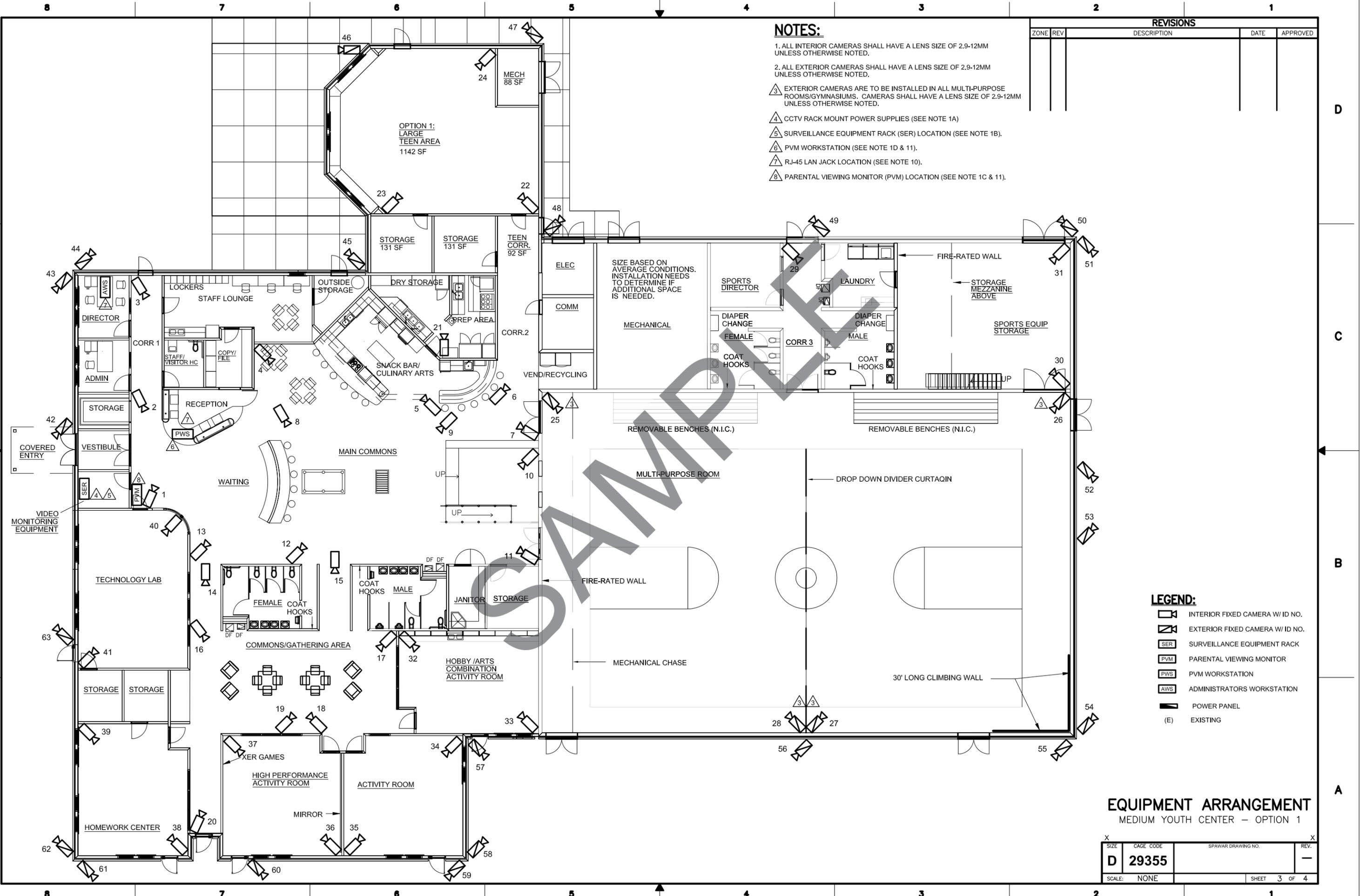
LEGEND:

- INTERIOR FIXED CAMERA W/ ID NO.
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- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- EXISTING

EQUIPMENT ARRANGEMENT
MEDIUM YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	2 OF 4

Final Copy - April 23, 2010



NOTES:

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6. PVM WORKSTATION (SEE NOTE 1D & 11).
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8. PARENTAL VIEWING MONITOR (PVM) LOCATION (SEE NOTE 1C & 11).

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

LEGEND:

- INTERIOR FIXED CAMERA W/ ID NO.
- EXTERIOR FIXED CAMERA W/ ID NO.
- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- (E) EXISTING

EQUIPMENT ARRANGEMENT
MEDIUM YOUTH CENTER - OPTION 1

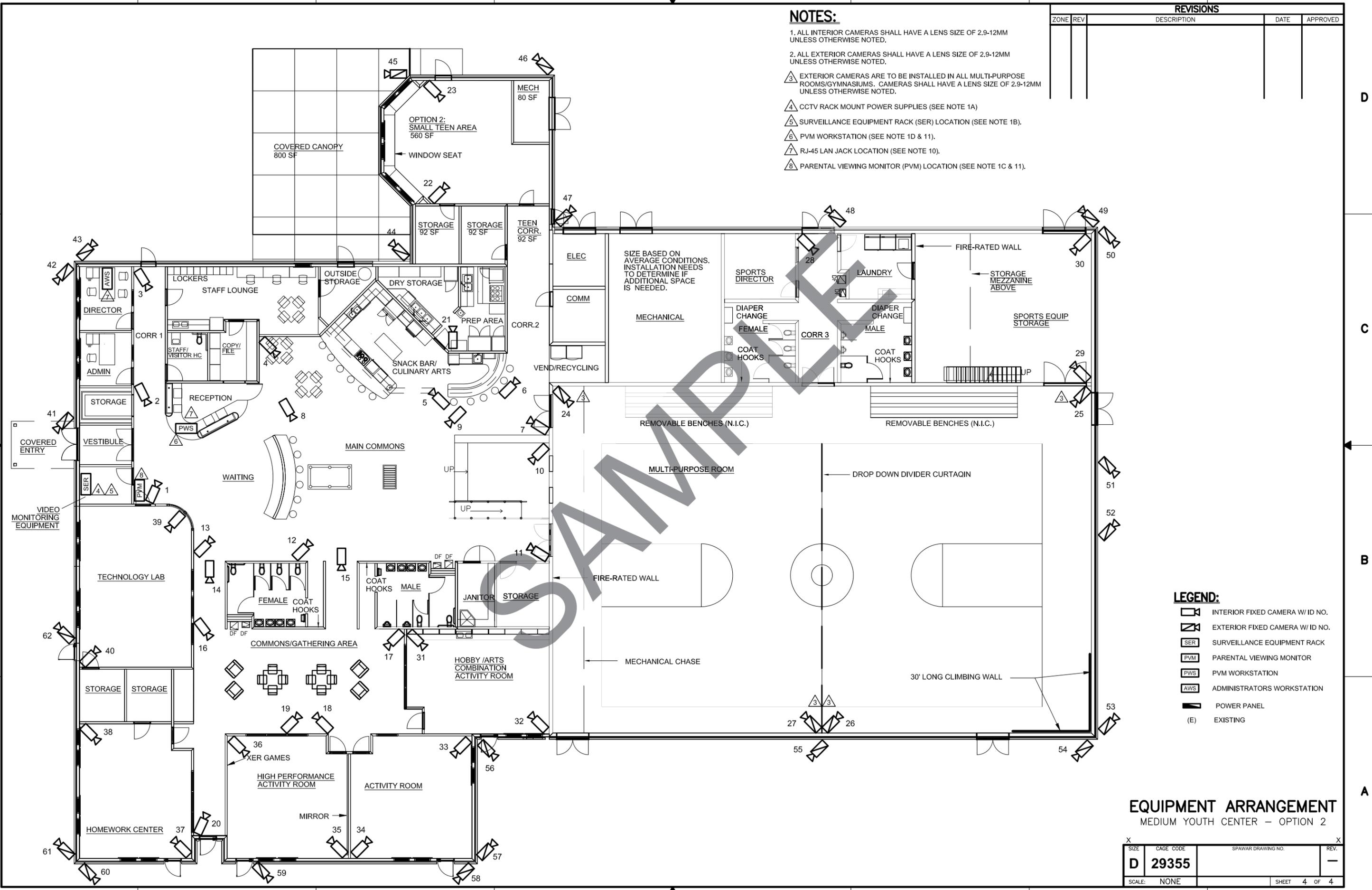
SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	3 OF 4

Final Copy - April 23, 2010

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



LEGEND:

- INTERIOR FIXED CAMERA W/ ID NO.
- EXTERIOR FIXED CAMERA W/ ID NO.
- SURVEILLANCE EQUIPMENT RACK
- PARENTAL VIEWING MONITOR
- PVM WORKSTATION
- ADMINISTRATORS WORKSTATION
- POWER PANEL
- (E) EXISTING

EQUIPMENT ARRANGEMENT
MEDIUM YOUTH CENTER - OPTION 2

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	4 OF 4

Final Copy - April 23, 2010

CONTRACTOR (BUILDING THE FACILITY) TO PROVIDE:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

1. POWER FOR THE CCTV SYSTEM:
 - A. CAMERA POWER SUPPLY: 64 CAMERA SYSTEM
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BUILDINGS WILL HAVE "OVERHANGS / SOFFITS" TO ACCOMMODATE EXTERIOR CAMERAS.
EXTERIOR CAMERAS ARE PLACED BASED ON EXPECTED LOCATION OF PLAYGROUNDS.

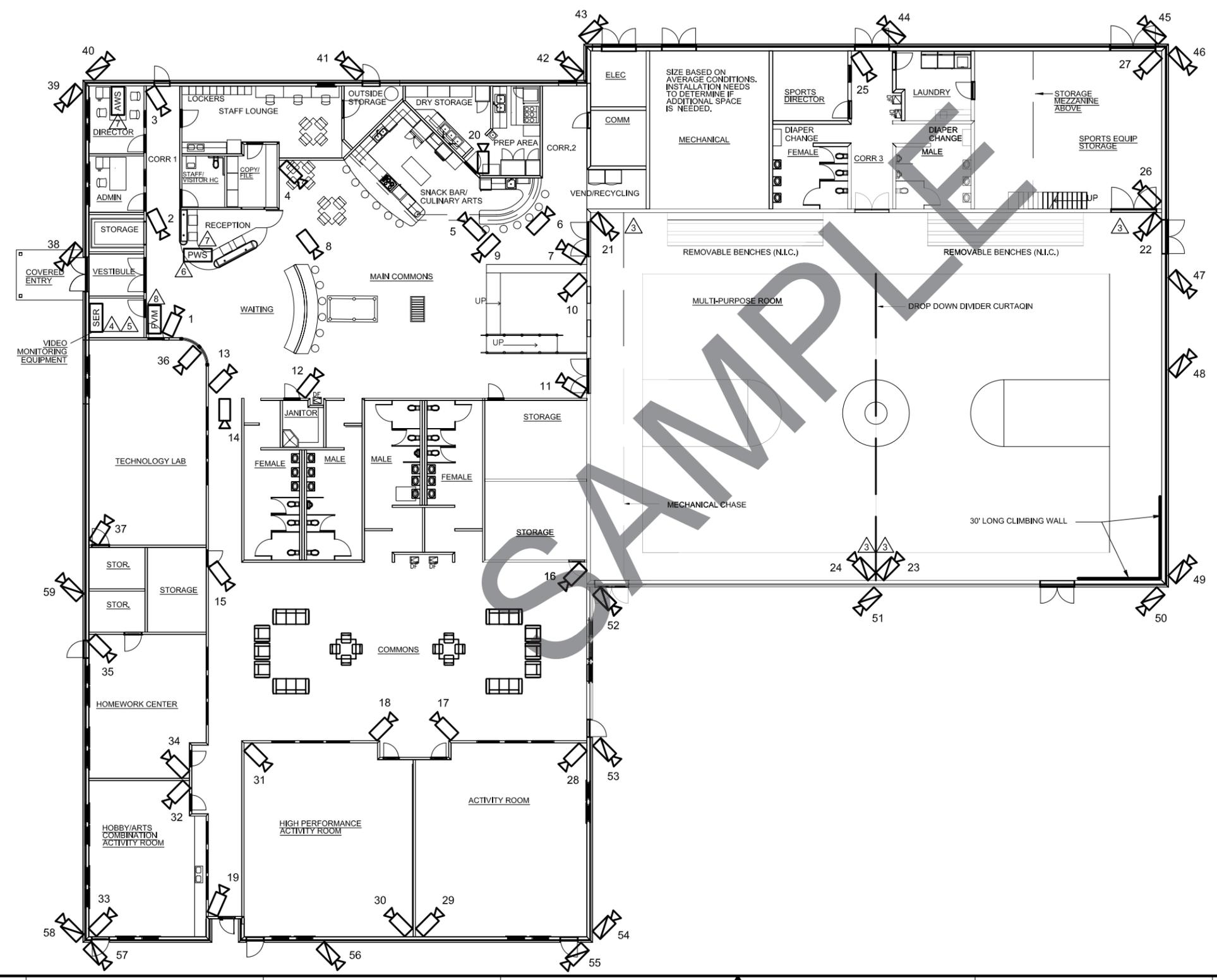
GENERAL NOTES

LARGE YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	1 OF 4

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

- NOTES:**
1. ALL INTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 2. ALL EXTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 3. EXTERIOR CAMERAS ARE TO BE INSTALLED IN ALL MULTI-PURPOSE ROOMS/GYMNASIUMS. CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 4. CCTV RACK MOUNT POWER SUPPLIES (SEE NOTE 1A)
 5. SURVEILLANCE EQUIPMENT RACK (SER) LOCATION (SEE NOTE 1B).
 6. PVM WORKSTATION (SEE NOTE 1D & 11).
 7. RJ-45 LAN JACK LOCATION (SEE NOTE 10).
 8. PARENTAL VIEWING MONITOR (PVM) LOCATION (SEE NOTE 1C & 11).



- LEGEND:**
- INTERIOR FIXED CAMERA W/ ID NO.
 - EXTERIOR FIXED CAMERA W/ ID NO.
 - SURVEILLANCE EQUIPMENT RACK
 - PARENTAL VIEWING MONITOR
 - PVM WORKSTATION
 - ADMINISTRATORS WORKSTATION
 - POWER PANEL
 - EXISTING

EQUIPMENT ARRANGEMENT
LARGE YOUTH CENTER

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	2 OF 4

Final Copy - April 23, 2010

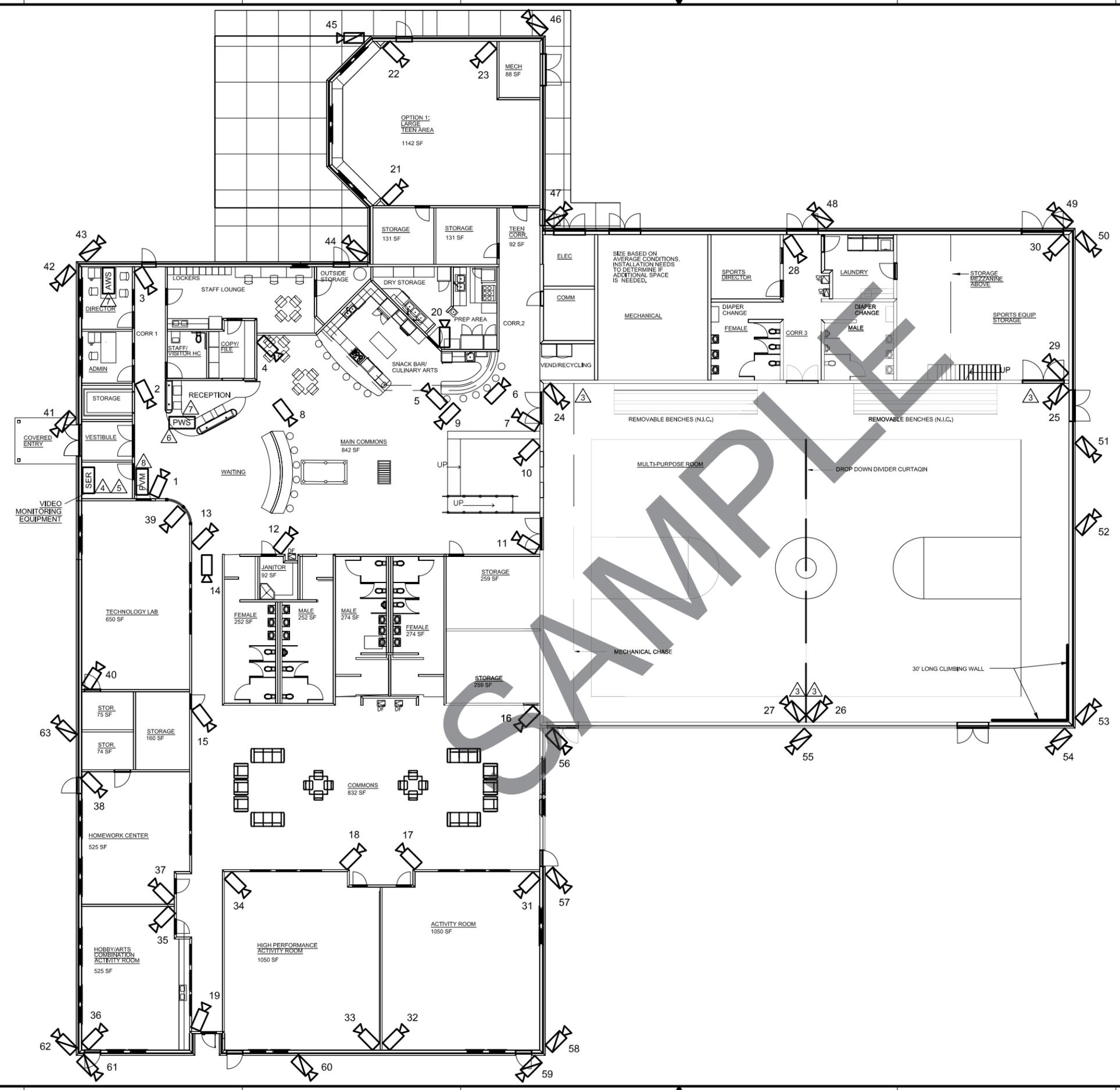
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

- NOTES:**
- ALL INTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - EXTERIOR CAMERAS ARE TO BE INSTALLED IN ALL MULTI-PURPOSE ROOMS/GYMNASIUMS. CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - CCTV RACK MOUNT POWER SUPPLIES (SEE NOTE 1A)
 - SURVEILLANCE EQUIPMENT RACK (SER) LOCATION (SEE NOTE 1B).
 - PVM WORKSTATION (SEE NOTE 1D & 11).
 - RJ-45 LAN JACK LOCATION (SEE NOTE 10).
 - PARENTAL VIEWING MONITOR (PVM) LOCATION (SEE NOTE 1C & 11).

- LEGEND:**
- INTERIOR FIXED CAMERA W/ ID NO.
 - EXTERIOR FIXED CAMERA W/ ID NO.
 - SURVEILLANCE EQUIPMENT RACK
 - PARENTAL VIEWING MONITOR
 - PVM WORKSTATION
 - ADMINISTRATORS WORKSTATION
 - POWER PANEL
 - (E) EXISTING

EQUIPMENT ARRANGEMENT
LARGE YOUTH CENTER – OPTION 1

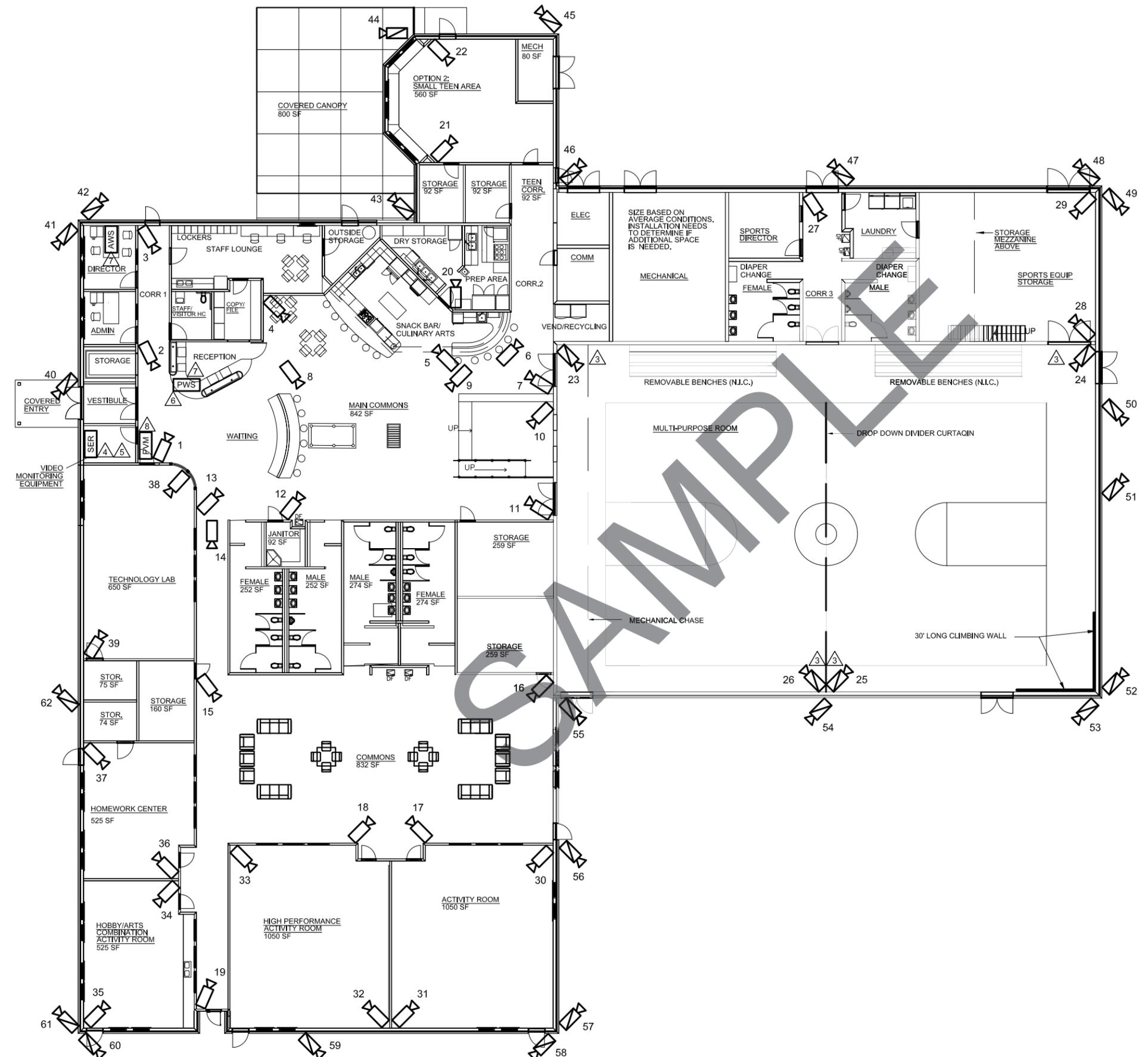
SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	3 OF 4



Final Copy - April 23, 2010

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

- NOTES:**
- ALL INTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - EXTERIOR CAMERAS ARE TO BE INSTALLED IN ALL MULTI-PURPOSE ROOMS/GYMNASIUMS. CAMERAS SHALL HAVE A LENS SIZE OF 2.9-12MM UNLESS OTHERWISE NOTED.
 - CCTV RACK MOUNT POWER SUPPLIES (SEE NOTE 1A)
 - SURVEILLANCE EQUIPMENT RACK (SER) LOCATION (SEE NOTE 1B).
 - PVM WORKSTATION (SEE NOTE 1D & 11).
 - RJ-45 LAN JACK LOCATION (SEE NOTE 10).
 - PARENTAL VIEWING MONITOR (PVM) LOCATION (SEE NOTE 1C & 11).



- LEGEND:**
- INTERIOR FIXED CAMERA W/ ID NO.
 - EXTERIOR FIXED CAMERA W/ ID NO.
 - SURVEILLANCE EQUIPMENT RACK
 - PARENTAL VIEWING MONITOR
 - PVM WORKSTATION
 - ADMINISTRATORS WORKSTATION
 - POWER PANEL
 - (E) EXISTING

EQUIPMENT ARRANGEMENT
LARGE YOUTH CENTER – OPTION 2

SIZE	CAGE CODE	SPAWAR DRAWING NO.	REV.
D	29355		-
SCALE:	NONE	SHEET	4 OF 4

Fianl Copy - April 23, 2010

Attachment D

Army Youth Center Color Scheme

COOL

SAMPLE

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Room Name	Floor Material	Base Material	Walls Material	Ceiling Material	Additional
Vestibule	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6228	ACT	
Hallways/Admin. Area	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6424 EPGB SW6233 See Attached Paint Plan	ACT	
Reception	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6424	ACT	Solid Surface Corian-Cobalt(E)
Waiting Area	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6228	ACT	Solid Surface Corian-Cobalt(E)
Directors Office	Interface-Carpet Pattern#M0252 Style# 1243102500-7326	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233 PGB SW6228 See Attached Paint Plan	ACT	
Admin. Office	Interface-Carpet Pattern#M0252 Style# 1243102500-7326	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Copy/File	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233	ACT	
Staff Lounge/ Training	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A) Interface-Carpet Pattern#M0252 Style# 1243102500	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233	ACT	
Staff/Visitor HC Restroom	Daltile-CT D037 Pepper White	Daltile-CT D037 Pepper White	Daltile-CT 0147Pepper Accent Tiles Q098Key Lime 0197 Aqua K189 Navy	ACT	Solid Surface Corian-Cobalt(E) with Partion by The Young Group LTD. Cyber Blue CB-3
Snack Bar/ Culinary Arts	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A) with Daltile-Quarry Tile in Ashen Grey	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6545	VACT	Solid Surface Corian-Cobalt(E)
Dry Storage	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233	VACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Commons (by Snack Bar)	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6244	ACT	
Hallway/Commons	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6244- See attached paint plan	ACT	
2nd Commons/ Gathering Area (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233	ACT	
Technology Lab/ Homework Center (Small Facility)	Interface-Carpet Pattern#M0252 Style# 1243102500-7326	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6228	ACT	
Hallway/Technology Lab (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6424 and EPGB SW6233 -See attached paint plan		
Technology Lab (Medium and Large Facilities)	Interface-Carpet Pattern#M0252 Style# 1243102500-7326	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6424	ACT	
Hallway/Homework Center (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6244-See attached paint plan	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Homework Center(Medium and Large Facilities)	Interface-Carpet Pattern#M0252 Style# 1243102500-7326	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6228	ACT	
Hallways/Activity Rooms	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233, EPGB SW6424, and EPGB SW6545 See Attached Paint Plan		
Activity Rooms, General	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233 Accent Wall EPGB SW6228-See attached paint plan for accent wall location	ACT	
Activity Rooms, Specific	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233 Accent Wall EPGB SW6228-See attached paint plan for accent wall location	ACT	
Storage, Typical	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233	ACT	
Multi-Purpose Room	ATHL Floor	Johnsonite-Rubber Wall Base 20-Charcoal	PCMU SW6233	E STRU	
Sports Director's Office	Interface-Carpet Pattern#M0252 Style# 1243102500Color: 7326	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233 PGB SW6228 See Attached Paint Plan	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Laundry	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233 EPGB SW6424 See Attached Paint Plan	ACT	
Male	Daltile-CT D037 Pepper White	Daltile-CT D037 Pepper White	Daltile-CT 0147Pepper Accent Tiles Q098Key Lime 0197 Aqua K189 Navy	ACT	Solid Surface Corian-Cobalt(E) with Partion by The Young Group LTD. Cyber Blue CB-3
Female	Daltile-CT D037 Pepper White	Daltile-CT D037 Pepper White	Daltile-CT 0147Pepper Accent Tiles Q098Key Lime 0197 Aqua K189 Navy	ACT	Solid Surface Corian-Cobalt(E) with Partion by The Young Group LTD. Cyber Blue CB-3
Hallway/Multipurpose Room	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	PCMU SW6545	ACT	
Janitor	CONC	Johnsonite-Rubber Wall Base 20-Charcoal	EPGB SW6233	ACT	
Video Monitoring Equipment Room	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233	ACT	
COMM. Room	CONC	Johnsonite-Rubber Wall Base 20-Charcoal	PGB SW6233	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

Mechanical Room	CONC	Johnsonite-Rubber Wall Base 20- Charcoal	PGB SW6233	E STRU	
Storage, Sports Equipment	CONC	Johnsonite-Rubber Wall Base 20- Charcoal	PGB SW6233	E STRU	
Storage, Sports Equipment Mezzanine	Steel		PGB SW6233	E STRU	
Storage, Outside	CONC	Johnsonite-Rubber Wall Base 20- Charcoal	PGB SW6233	E STRU	
Optional Areas:					
Teen Room/Lounge Area	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20- Charcoal	EPGB SW6545 Or EPGB SW6424	ACT	
Storage, Teen Area	Johnsonite-Optima VinylFlooring 896 Cloudy (P) 866 Sidewalk(A) 906North Shor.(A) 846 Lime Cil.(A) 819SHide Tide(A)	Johnsonite-Rubber Wall Base 20- Charcoal	PGB SW6233	ACT	
Mechanical Room, Teen Area	CONC	Johnsonite-Rubber Wall Base 20- Charcoal	PGB SW6233	E STRU	

Notes:

For VCT flooring see attached suggested floor patterns

For Paint use Eggshell throughout and if area paint is not specified on Finish Schedule use SW 6156

All Ceramic Tile for walls in Bathroom are 4.25'x 4.25" , Flooring is 2'x2" - see attached suggested pattern.

Finish Schedule Legend

ACT	Accoustical Ceiling Tile
ATHL FL	Athletic (Multi-Purpose Floor)
CONC	Concrete Floor (Sealed)
CT	Ceramic Tile (Sealed)
CPT	Carpet (Anti Static)

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Cool Scheme

EPGB	Epoxy Painted Gypsum Board
E STRU	Exposed Structure
PCMU	Painted Concrete Masonry Units (Semi Gloss/Sealed)
PGB	Painted Gypsum Board (Eggshell Finish)
QT	Quarry Tile
RB	Rubber Base
VACT	Vinyl Faced Accoustical Ceiling Tile
VCT	Vinyl Composition Tile

NOTE: All manufacturers are provided as examples. Other manufacturers may be used as long as the colors, patterns, and durability are very similar. Substitutions will require Government approval.

Rep Contacts:

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Lisa Buchanan
#:703.379.3795
E:Lisa.Buchanan@interfaceflor.com

Daltile
Catherine Massey
#:301.740.9449
E:Catherine.massey@daltile.com

Johnsonite
Donna Heffernan Sisson
#:703.250.0714
E:dheffernan@johnsonite.com

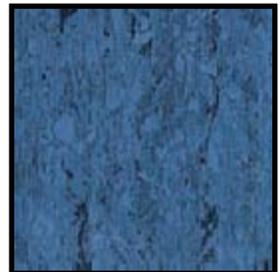
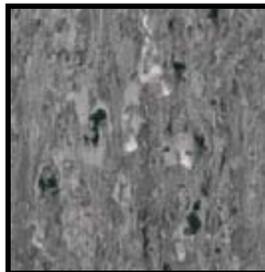
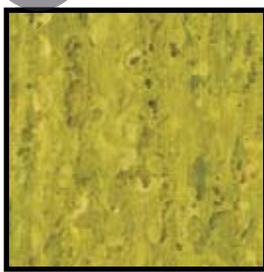
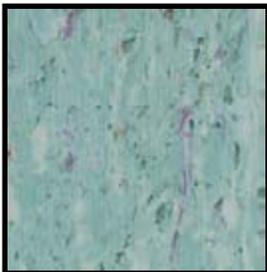
The Young Group LTD
#.314.771.3080
fabproducts@theyounggroup.net

SAMPLE

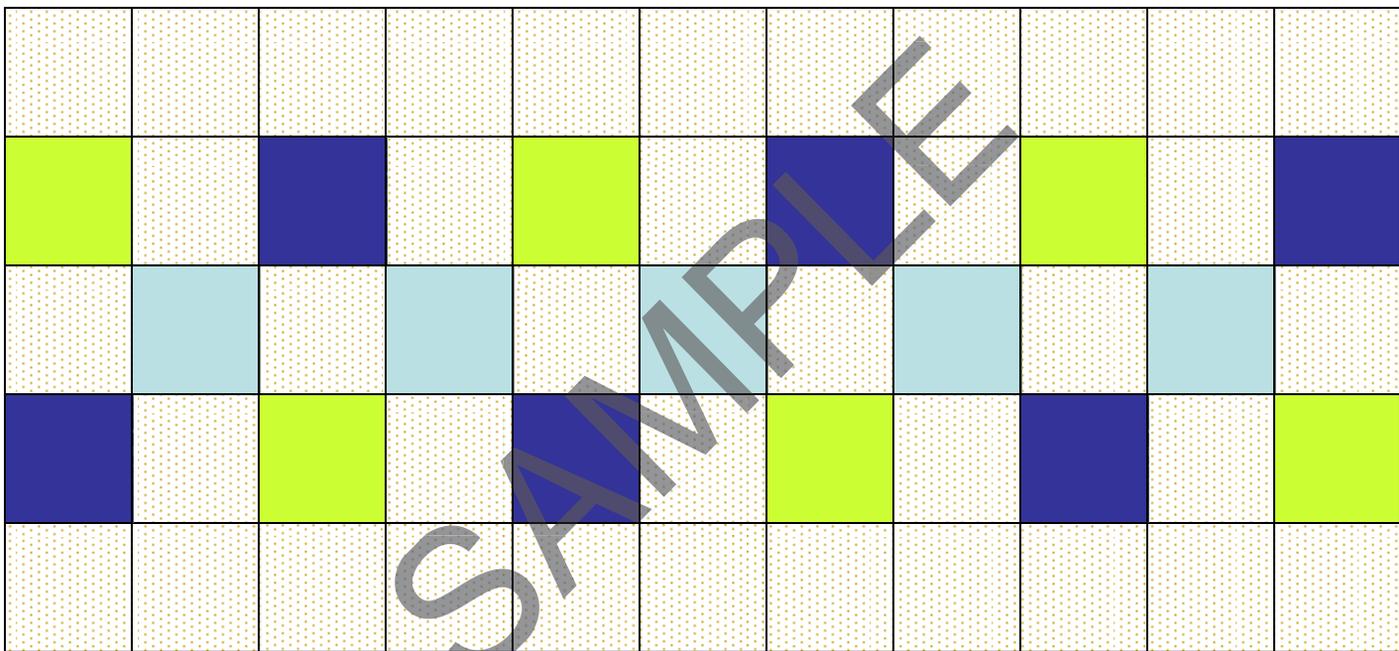
VCT Floor Pattern



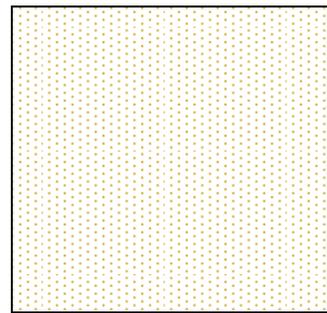
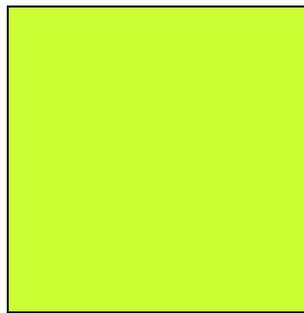
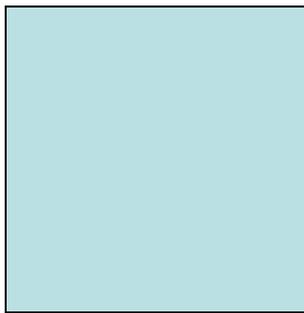
Use cool color scheme tiles to create a random pattern similar to the one above.



CT Wall Trim and Floor Edge Pattern



Accent Tiles



Main Tile

Attachment D

Army Youth Center Color Scheme

Warm

SAMPLE

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme

Room Name	Floor Material	Base Material	Walls Material	Ceiling Material	Additional
Vestibule	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6221	ACT	
Hallways/Admin. Area	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6409 EPGB SW6380 See Attached Paint Plan	ACT	
Reception	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6409	ACT	Solid Surface Corian-Tumbled Glass
Waiting Area	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6221	ACT	
Directors Office	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380 PGB SW6221 See Attached Paint Plan	ACT	
Admin. Office	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme

Copy/File	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	
Staff Lounge/ Training	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)and Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380	ACT	
Staff/Visitor HC Restroom	Daltile-CT D138 Golden Granite	Daltile-CT D138 Golden Granite	Daltile-CT 01138GoldenGr. Accent Tiles Q094Chianti 0197 Aqua Q090Pumpkin Sp.	ACT	Solid Surface Corian-Tumbled Glass with Partion by The Young Group- LTD. Cyber Orange CB-2
Snack Bar/ Culinary Arts	Daltile-Quarry Tile in Beige	Daltile-Quarry Tile in Beige	EPGB SW6349	VACT	Solid Surface Corian-Tumbled Glass
Dry Storage	Daltile-Quarry Tile in Beige	Daltile-Quarry Tile in Beige	EPGB SW6380	VACT	
Commons (by Snack Bar)	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6307 See attached paint plan	ACT	

**Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme**

Hallway/Commons	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6307- See attached paint plan	ACT	
2nd Commons/ Gathering Area (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380, EPGB SW6409, and EPGB SW6349 See Attached Paint Plan	ACT	
Technology Lab/ Homework Center (Small Facility)	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6221	ACT	
Hallway/Technology Lab (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6409 and EPGB SW6380 - See attached paint plan		
Technology Lab (Medium and Large Facilities)	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6409	ACT	
Hallway/Homework Center (Medium and Large Facilities)	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6409 and EPGB SW6380 - See attached paint plan	ACT	
Homework Center(Medium and Large Facilities)	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6221	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme

Hallways/Activity Rooms	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380, EPGB SW6409, and EPGB SW6349 See Attached Paint Plan		
Activity Rooms, General	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380 Accent Wall EPGB SW6221-See attached paint plan for accent wall location	ACT	
Activity Rooms, Specific	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380 Accent Wall EPGB SW6221-See attached paint plan for accent wall location	ACT	
Storage, Typical	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	
Multi-Purpose Room	ATHL Floor	Johnsonite-Rubber Wall Base 63-Burnt Umber	PCMU SW6380	E STRU	
Sports Director's Office	Interface-Carpet Pattern: Games a Foot Color: 6843 Style# 1241602500	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380 PGB SW6221 See Attached Paint Plan	ACT	
Laundry	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380 EPGB SW6409 See Attached Paint Plan	ACT	

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme

Male	Daltile-CT D138 Golden Granite	Daltile-CT D138 Golden Granite	Daltile-CT 01138GoldenGr. Accent Tiles Q094Chianti 0197 Aqua Q090Pumpkin Sp.	ACT	Solid Surface Corian-Tumbled Glass with Partion by The Young Group- LTD. Cyber Orange CB-2
Female	Daltile-CT D138 Golden Granite	Daltile-CT D138 Golden Granite	Daltile-CT 01138GoldenGr. Accent Tiles Q094Chianti 0197 Aqua Q090Pumpkin Sp.	ACT	Solid Surface Corian-Tumbled Glass with Partion by The Young Group- LTD. Cyber Orange CB-2
Hallway/Multipurpose Room	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	PCMU SW6349	ACT	
Janitor	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6380	ACT	
Video Monitoring Equipment Room	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	
COMM. Room	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	

**Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme**

Mechanical Room	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	E STRU	
Storage, Sports Equipment	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	E STRU	
Storage, Sports Equipment Mezzanine	Steel		PGB SW6380	E STRU	
Storage, Outside	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	E STRU	
Optional Areas:					
Teen Room/Lounge Area	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	EPGB SW6349 Or EPGB SW6307	ACT	
Storage, Teen Area	Johnsonite-Optima VinylFlooring 850 Flan (P) 888 Cardinal(A) 867 Tomatoe Pa(A) 846 Lime Cil.(A) 858 Breakwater(A)	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	ACT	
Mechanical Room, Teen Area	CONC	Johnsonite-Rubber Wall Base 63-Burnt Umber	PGB SW6380	E STRU	

Notes:

For VCT flooring see attached suggested floor patterns

For Paint use Eggshell throughout and if area paint is not specified on Finish Schedule use SW 6380

Use Ceramic Tile D161 in Bathroom and others as accent on wall trim and floor edge see attached suggested patterns

Finish Schedule Legend

ACT

Accoustical Ceiling Tile

ATHL FL

Athletic (Multi-Purpose Floor)

Minimum Interior Room Finish Schedule Requirements
Youth Centers-Warm Scheme

CONC	Concrete Floor (Sealed)
CT	Ceramic Tile (Sealed)
CPT	Carpet (Anti Static)
EPGB	Epoxy Painted Gypsum Board
E STRU	Exposed Structure
PCMU	Painted Concrete Masonry Units (Semi Gloss/Sealed)
PGB	Painted Gypsum Board (Eggshell Finish)
QT	Quarry Tile
RB	Rubber Base
VACT	Vinyl Faced Accoustical Ceiling Tile
VCT	Vinyl Composition Tile

NOTE: All manufacturers are provided as examples. Other manufacturers may be used as long as the colors, patterns, and durability are very similar. Substitutions will require Government approval.

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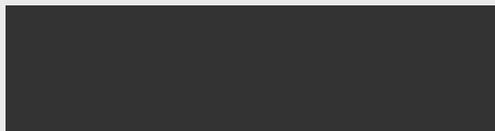
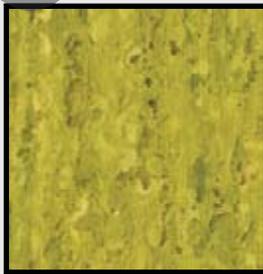
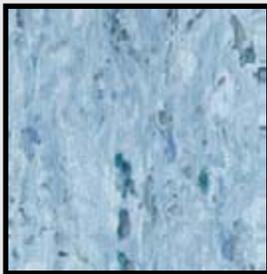
WARM COLOR SCHEME



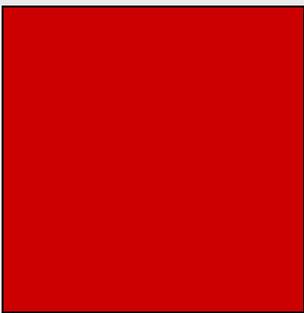
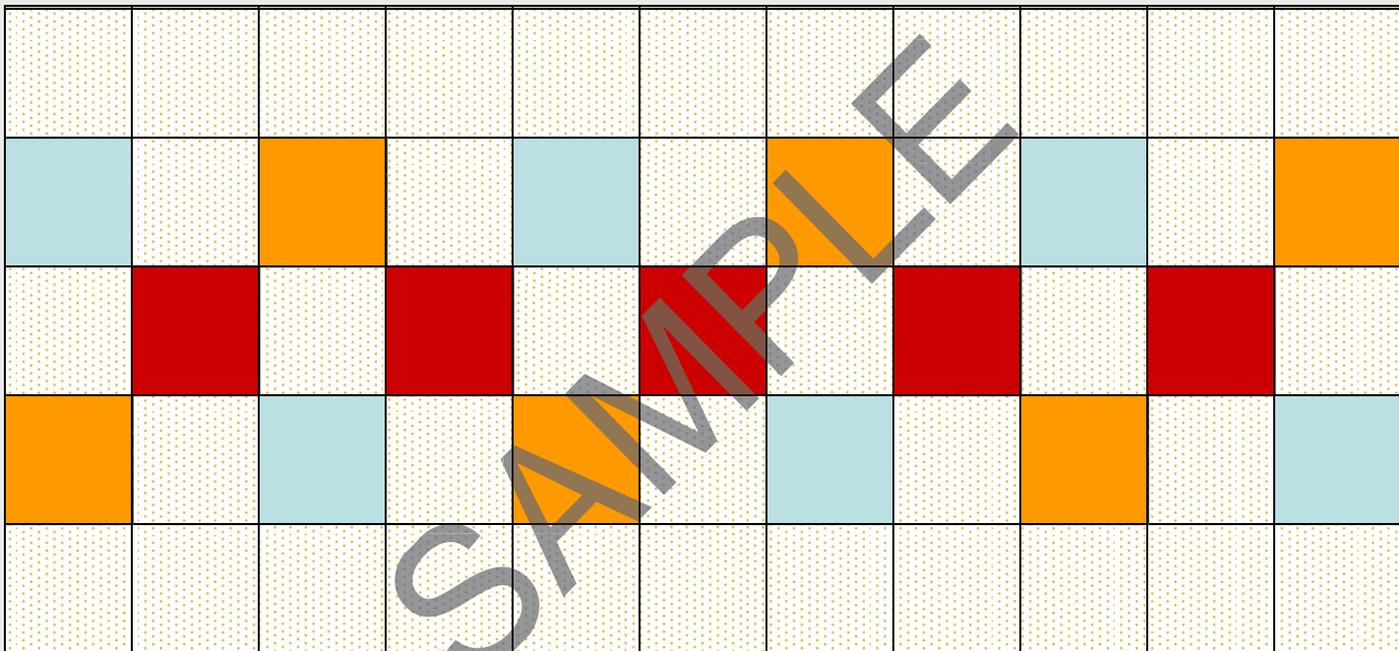
VCT Floor Pattern



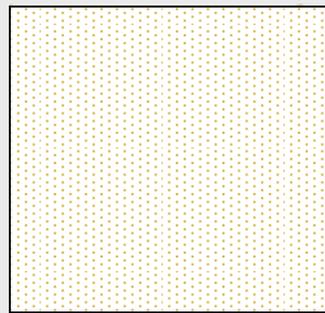
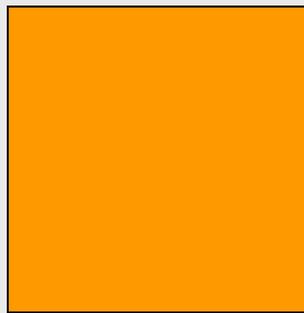
Use warm color scheme tiles to create a random pattern similar to the one above.



CT Wall Trim and Floor Edge Pattern



Accent Tiles



Main Tile