22 middleton street
nashville, tennessee 37210
tel: (615) 255-1854

March 30, 2020

Mayor Chad D. Graham
Bedford County
1 Public Square, Suite #101
Shelbyville, Tennessee 37160

American Institute of Architects
Tennessee Society of Architects
Construction Specifications Institute
American Correctional Association
National Council of Architectural Registration Boards
United States Green Building Council

RE: PROGRAMING PHASE
JUVENILE JUSTICE CENTER RENOVATION
BEDFORD COUNTY, TENNESSEE

Dear Mayor Graham:

Following is the feasibility study for the future renovation of the existing Bedford county Workhouse located at 203 Lane Parkway, Shelbyville, TN 37160. This feasibility study focuses on converting the existing workhouse into a Juvenile Detention Center. Included below are tasks completed and attached are supporting documents which allow us to determine the costs of renovating the existing facility versus building a new facility.

Upon review and approval of this feasibility study and once the County decides to either renovate the existing facility or build a new facility, KSA will provide a fee proposal to complete all Architectural and Engineering services required to produce a set of Contract Bid Documents and Specifications. For reference we have included A/E fees for each option to allow you to better understand total project costs.

Cost Comparison:

All new 14,800 SF Construction without a commercial kitchen:

Construction Cost Estimate:	$5,180,000
A/E Fees (State Fee Formula (35/log P-1.15):	$325,826
Subtotal:	$5,505,826

Renovate 16,218 SF of Existing County Work House (Commercial Kitchen to remain as is):

Construction Cost Estimate:	$1,833,660
Owner Contingency Estimate:	$ 183,366
A/E Fees (State Fee Formula (35/log P-1.15)x1.25:	$ 171,193
Subtotal:	$2,188,219

The following list is a status of the Tasks outlined in the original proposal:

Task 1: As built survey: KSA has visited the site and measured and drawn the existing conditions to allow us to prepare this feasibility study.

Task 2: KSA has created a preliminary floor plan that shows alterations of the existing building to accommodate Bedford County's needs and allows us to prepare the cost estimates. See attached floor plan.

Task 3: KSA has met with DCS and Juvenile Services and verified that the preliminary floor plan in Task 2 meets the required standards.

Task 4: KSA will meet with Bedford County Codes to review the proposed renovation to verify whether this renovation will trigger additional renovations.

Bedford County Planning and Zoningwww.bedfordcountytn.org › Office: 931.685.1336

The Bedford County Building Codes Department issues permits for the County Jurisdiction only – (area located outside of any city jurisdictions). However, according to City of Shelbyville the City will not be involved in the permit review process for County owned buildings within the City limits. For additional information and/or questions please contact City office at 931-684-9001 or by email to Bryan Stevens at bryan.stevens@shelbyvilletn.org. Bryan Stevens, Building & Codes Director. County owned buildings are up to the County on how they want to renovate it. The City will not be involved in the permit review process.

County Permit:

Bedford County has adopted the 2015 International Builing Codes as a building standard for all construction activities. County Codes Department will provide a preliminary review based on the programatic drawings and a more thorough review at the future Permit submssion phase.

The State Fire Marshall's Office will review all Juvenile Detention facilities. This review occurs during the design phases.

Task 5: Attached is the schematic cost estimate encompassing items in Tasks 2, 3, and 4.

Task 6: A new facility located on County owned property adjacent to the new Justice Center would cost according to current cost trends approximately around $350 per Square Foot or $5,180,00.00, as of Spring 2020, for a 14,800 SF new facility.

This cost range assumes the moderately restrictive construction (masonry, security glazing, hollow metal doors, security hardware and electronics) typical in juvenile operations. These costs represent the costs of bricks and mortar alone.

If you have any questions, please call.

Sincerely,
KLINE SWINNEY ASSOCIATES

Bart Kline, AIA

8/4/20 Juvenile Study Session

2nd floor Courthouse @ 5 pm

Those in attendance: Chair, Julie Sanders , Greg Vick, Jeff Sweeney, Brian Farris, Robert Daniel, Sylvia Pinson, Linda Yockey, Kellee Smith, Nicole Cashion, Charles Rich, Don Embry, Chad Fletcher, Barry Bennett

PURPOSE:

To determine Bedford County's future planning for Juvenile Detention Services

***PLAN A*:**

Continue to provide local Juvenile Detention services within Bedford County in current location with revised meal planning.

--Concerns with not enough beds

---Short term needs- need kitchen, better meal prep ability (2 hot meals per day required). Discussed possibility of school system assisting but that was ruled out.

---Decreased space for education especially with COVID restrictions

----Discussed possible plan to use space at Sheriffs office. Sweeney to investigate in next 90 days to see what we can do short term.

----Smith and Cashion felt we can handle current juveniles in current facility with very little problems.

***PLAN B*:**

Continue to provide local Juvenile Detention Services within Bedford County, moving location to previous Workhouse location at estimated required cost of ????

(to be determined based on studies that have been completed)

---Proposed plan by Kline and Sweeney- would require at least 750K investment initially. More costs in coming years expected.

---Concerns by Farris with this being a bandaid and short term fix, due to building being older and not a long term solution.

---Most people present felt this is definitely a short term fix and might cost more in long run due to building being so old.

***PLAN C*:**

Discontinue Local Juvenile Services- send out-

----Costs would exceed what we are currently spending, per preliminary numbers. This needs to be discussed further. There are currently 17 juvenile facilities in Tennessee, which is very limited. Transport costs would be expensive as well as cost of staffing to accompany juveniles. Also education would not be as good as what they are currently receiving with current services. Title I receives funds and provides education to juveniles.

Additional Plan D was discussed-

Placing a new Juvenile facility at jail / justice center location ,in future once we have the funds as long term solution.

At end of meeting, it was decided by all present that Sweeney will get with other appropriate people and see what we can do to use part of Sheriffs office for education purposes when space is needed at current facility. We will reconvene after further studies have been done to formulate details of short term plan. It is estimated by Sweeney that this will take approximately 90 days.

BEDFORD COUNTY JUVENILE DETENTION FACILLITY COST COMPARISON

RENOVATE 203 LANE PARKWAY FACILITY

PROGRAM COMPARISON

1 Includes existing kitchen facilities to remain as is.
2 Estimate based off of 27 juvenile detainees.
3 Renovation of 16,218 SF
4
The following cost estimate assumes removal and replacement of all mechanical, plumbing, and eletrical where existing is to be demolished.

BUILDING NEW FACILITY AT BEDFORD COUNTY JUSTICE COMPLEX

Assuming no new Kitchen required. Meals to be delivered from adjacent Justice Complex.

New Building 14,800 SF	14,800	350	$/sf	$5,180,000

DIVISION 01 – GENERAL AND SPECIAL CONDITIONS

DIVISION 01 – GENERAL AND SPECIAL CONDITIONS	1 ls	135000	**$135,000.00**

DIVISION 02 – DEMOLITION

Basic Wall: IW2 Int CMU 8"	1158 SF	3.00	$3,474.00
Basic Wall: IW5_Int - 3 5/8" Mtl/Gyp Partition - 4 7/8"	3842 SF	3.00	$11,526.00
DEMO OR RELOVATE EXISTING WATER CLOSETS	17 EA	200.00	$3,400.00
DEMO OR RELOCATE EXISTNING LAVATORIES	16 EA	200.00	$3,200.00
DEMO EXISTING SHOWERS	7 EA	150.00	$1,050.00
DEMO EXISTING VAULT 30 SF	1 EA	1000.00	$1,000.00
DEMO EXISTING STORFRONT 91 SF X 4 = 364	364 SF	8.00	$2,912.00
DEMOLISH LAUNDY SHED INCLUDING MEP AND SLAB	400 SF	6.00	$2,400.00
DEMOLISH EXISTING STORAGE SHED	600 SF	8.00	$4,800.00
CUT OUT EXISTING CONCRETE SLAB AND TRENCH FOR NEW PLUMBING AND REPAIR SLAB	120 lf	30.00	$3,600.00
Remove old sealants	500 lf	1.00	$500.00
Roof Panel Demolition	16,218 SF	1.30	$21,083.40
TOTAL DIVISION 02 – DEMOLITION			**$58,945.40**

DIVISION 03 – CONCRETE

Exterior concrete slab for expanded outdoor recreation area	900 sf	6.00	$5,400.00
TOTAL DIVISION 03 – CONCRETE			**$5,400.00**

DIVISION 04 – MASONRY

Basic Wall: IW2 Int CMU 8" 12'HIGH	5449 SF	15.50	$84,459.50
Basic Wall: IW2 Int CMU 8" INFILL	193 SF	20.00	$3,860.00
TOTAL DIVISION 04 – MASONRY			**$88,319.50**

DIVISION 05 – METALS

Misc.	1 ls	8000.00	$8,000.00
TOTAL DIVISION 05 – METALS			**$8,000.00**

DIVISION 06 – WOOD AND PLASTICS

06 41 16 Cabinetwork and Plastic Laminate - Allowance $10,000		10000.00	$10,000.00
MISC.	1 LS	8000.00	$8,000.00
TOTAL DIVISION 06 – WOOD AND PLASTICS			**$18,000.00**

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 41 16 Roof - Add layer of metal screw-down $6 or New Insulation/Standing seam $8	16400 sf	10.00 $/SF	$164,000.00
R 20 New Wall Insulation - existing metal sandwich panel appears to have little or no insulation field verify. 520x16=8,320	8320 sf	2.50 $/SF	$20,800.00
07 22 02 Roof Insulation R30	16400 sf	2.00 $/SF	$32,800.00
07 60 00 flashing and sheet metal reroof	520 lf	6.00 $/lf	$3,120.00
07 72 36 Automatic Smoke Vent System	1 ea	5000.00	$5,000.00
07 90 00 Caulking and Sealants	1000 lf	4.00 $/lf	$4,000.00
Misc.	1 ls	$22,972.00	$22,972.00
TOTAL DIVISION 07 – THERMAL AND MOISTURE PROTECTION			**$252,692.00**

DIVISION 8 – DOORS AND WINDOWS

81 DOORS- 30 EXISTING TO REMAIN	51 ea	1200.00 $/SF	$61,200.00
Sky Lights W TUBE/CHASE	26 ea	1000.00	$26,000.00
No contact Visitor Window	1 ea	7000.00	$7,000.00
11 19 00 Security Glass and Glazing Interior	200 sf	60.00	$12,000.00
11 19 00 Security Glass and Glazing Exterior existing replace	600 sf	40.00	$24,000.00
12 19 00 Security Glass and Glazing Exterior new	56 sf	40.00	$2,240.00
11 19 00 Non Contact Wire Mesh and Security Fasteners	656 sf	10.00	$6,560.00
11 19 00 Woven-Rod Mesh for Security Gates	0 sf		$0.00
DIVISION 8 – DOORS AND WINDOWS			**$139,000.00**

DIVISION 9 – FINISHES

09 29 00 Basic Wall: IW5_Int - 3 5/8" Mtl/Gyp Partition - 4 7/8"	630 sf	6.00	$3,780.00
09 29 00 Basic Wall: IW6_Int - 6" Mtl/Gyp Partition - 7 1/4"	1965 sf	6.25	$12,281.25
			$0.00
Lay-in Ceilings	9812 sf	2.75	$26,983.00
09 29 00 GYPSUM BOARD CEILINGS	7000 SF	6.00	$42,000.00
09 67 23 RESINUOUS FLOORING	14000 SF	13.00	$182,000.00
09 91 01 PAINTING	12000 SF	2.50	$30,000.00
TOTAL DIVISION 9 – FINISHES			**$297,044.25**

DIVISION 10 – SPECIALTIES

10 28 00 TOILET ACCESSORIES	1 ls	1000.00	$1,000.00
10 44 13 FIRE EXTINGUISHERS	4 ea	100.00	$400.00
DIVISION 10 – SPECIALTIES			**$1,400.00**

DIVISION 11 – EQUIPMENT (Allowance)

11 19 00 DETENTION EQUIPMENT

11 19 13 METAL DETECTORS

DIVISION 11 – EQUIPMENT **$100,000.00**

DIVISION 12 – FURNISHINGS

NONE

DIVISION 14 – CONVEYING SYSTEM

NOT APPLICABLE

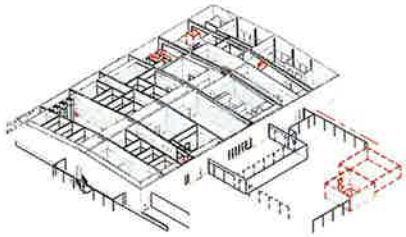
DIVISION 21 – FIRE PROTECTION

MODIFY EXISTING SYSTEM	16218 sf	1.50	$24,327.00
DIVISION 21 – FIRE PROTECTION			**$24,327.00**

DIVISION 22 – PLUMBING			
Plumbing	16218 SF	5.00	$81,090.00
Pre-fab Showers			$0.00
Security Fixtures	12 ea	5500.00	$66,000.00
DIVISION 22 – PLUMBING			**$147,090.00**
DIVISION 23 – HVAC			
	16218 sf	5.00	$81,090.00
DIVISION 23 – HVAC			**$81,090.00**
DIVISION 26 – ELECTRICAL			
Electrical	16218 sf	9.00	$145,962.00
DIVISION 26 – ELECTRICAL			**$145,962.00**
DIVISION 27 – COMMUNICATIONS RACEWAYS			
27 41 16 VIDEO VISITATION SYSTEM	1000 LF	6.00	$6,000.00
DIVISION 27 – COMMUNICATIONS RACEWAYS			**$6,000.00**
DIVISION 28 – ELECTRONIC SAFETY AND SECURITY			
28 23 00 SECURITY AND CAMERA SYSTEM	34	750.00	$25,500.00
DIVISION 28 – ELECTRONIC SAFETY AND SECURITY			**$25,500.00**
DIVISION 31 – EARTHWORK			
MISC. ADA CORRECTIONS	1 LS	30000.00	$30,000.00
DIVISION 31 – Earth Work			**$30,000.00**
DIVISION 32 – EXTERIOR IMPROVEMENTS			
32 31 01 CANTILEVER SLIDING VEHICLE GATES - SECURITY 425/lf	2 EA	10000.00	$20,000.00
32 31 02 EXTERIOR SECURITY GATES	3 EA	1500.00	$4,500.00
32 31 17 SECURITY CHAIN LINK FENCE AND GATES	8664 SF	8.00	$69,312.00
ADA Misc.	1 ls	$9,381.20	$9,381.20
DIVISION 32 – EXTERIOR IMPROVEMENTS			**$103,193.20**
DIVISION 33 – UTILITIES			
NONE			
SUBTOTAL			**$1,666,963.35**
10% Early Design Phase Contingency			$166,696.34
CONSTRUCTION COSTS TOTAL			**$1,833,659.69**
OWNER'S CONTINGENCY FUNDS FOR HIDDEN CONDITIONS PROGRAM CHANGES, ETC.			$183,365.97
BUDGET SUBTOTAL			**$2,017,025.65**

This estimate does not include Furniture, Fixtures, and Moveable Equipment (FEE), Fees, and other soft costs.

PROGRAM PHASE/FEASIBILITY STUDY FOR RENOVATION OF BEDFORD COUNTY WORKHOUSE FOR JUVENILE DETENTION CENTER



203 LANE PARKWAY
SHELBYVILLE, TENNESSEE

OWNER:
BEDFORD COUNTY
1 PUBLIC SQUARE, SUITE 101
SHELBYVILLE, TENNESSEE, 37160

DATE: MARCH 30, 2020

PROJECT DESCRIPTION

PROJECT DESCRIPTION_____

CONTACTS

ARCHITECTURAL
KLINE SWINNEY ASSOCIATES
22 MIDDLETON STREET
NASHVILLE, TENNESSEE 37210
615.255.1854
PROJECT ARCHITECT David Kline
PROJECT MANAGER Bart Kline

STRUCTURAL

CIVIL

MECHANICAL & PLUMBING

LANDSCAPING

ELECTRICAL

FIRE PROTECTION

APPLICABLE CODES

- 2015 INTERNATIONAL BUILDING CODE (IBC) WITH LOCAL AMENDMENTS
- 2015 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 2015 INTERNATIONAL PLUMBING CODE (IPC) WITH LOCAL AMENDMENTS
- 2015 INTERNATIONAL MECHANICAL CODE (IMC) WITH LOCAL AMENDMENTS
- 2015 INTERNATIONAL FUEL GAS CODE (IFGC) WITH LOCAL AMENDMENTS
- 2017 NATIONAL ELECTRICAL CODE (IEC)
- 2015 INTERNATIONAL FIRE CODE (IFC) WITH LOCAL AMENDMENTS
- 2012 LIFE SAFETY CODE (NFPA 101) WITH LOCAL AMENDMENTS

VICINITY MAP

CODE ANALYSIS

BUILDINGS USE AND OCCUPANCY CLASSIFICATION: INSTITUTIONAL GROUP I-3
CONDITION #5

408.3.6 Exit discharge. Exits are permitted to discharge into a fenced or walled courtyard. Enclosed yards or courts shall be of a size to accommodate all occupants, be located not less than 50 feet from the building and have an area of not less than 15 square feet per person.

408.6 Smoke barrier. Occupancies in Group I-3 shall have smoke barriers complying with Sections 408.8 and 709 to divide every story occupied by residents for sleeping into no fewer than two smoke compartments.

408.8.2 Occupancy Condition 5. Each sleeping area in Occupancy Condition 5 shall be separated from adjacent sleeping areas, corridors and common spaces by a smoke tight partition. Additionally, common spaces shall be separated from the corridor by a smoke tight partition.

408.8.3 Openings in room face. The aggregate area of openings in a solid sleeping room face in Occupancy Conditions 5 shall not exceed 120 square inches. The aggregate area shall include all openings including door undercuts, food passes and grilles. Openings shall be not more than 36 inches (914 mm) above the floor. In Occupancy Condition 5, the openings shall be closeable from the room side.

408.8.4 Smoke tight doors. Doors in openings in partitions required to be smoke tight by Section 408.8 shall be
substantial doors, of construction that will resist the passage of smoke. Latches and door closures are not required on cell doors.

408.9 Windowless buildings. For the purposes of this section, a windowless building or portion of a building is one with nonoperable windows, windows not readily breakable or without windows. Windowless buildings shall be provided with an engineered smoke control system to provide a tenable environment for exiting from the smoke compartment in the area of fire origin in accordance with Section 909 for each windowless smoke compartment.

408.11 Automatic sprinkler system. Group I-3 occupancies shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.2.6.

INDEX OF DRAWINGS

GENERAL
G1.00 INDEX OF DRAWINGS
G1.02 PROGRAMING NOTES

CIVIL

LANDSCAPING

DEMOLITION PLAN
D1.01 DEMOLITION PLAN

LIFE SAFETY
LS1.01 LIFE SAFETY PLAN

ARCHITECTURAL
A1.00 ARCHITECTURAL SITE PLAN
A1.01b SPACTIAL RELATIONSHIPS DIAGRAM "B"
A1.01a FLOOR PLAN - NOTED
A4.01 LARGE SCALE PLANS
A6.01 SECTIONS

STRUCTURAL

FIRE PROTECTION

MECHANICAL

PLUMBING

ELECTRICAL

KLINE SWINNEY ASSOCIATES
22 middleton street nashville, tennessee 37210
architecture + interior design + planning

INDEX OF DRAWINGS

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. G1.00

PROGRAM SPACE SUMMARY

ROOM NO.	ROOM NAME	AREA (SF)	COMMENTS
100	VISITOR WAITING	135	
101	CORRIDOR	219	
102	CONFERENCE ROOM	234	
103	OFFICE	157	
104	UNISEX TLT.	44	
105	UNISEX TLT.	42	
106	DATA	48	
107	CORRIDOR	276	
108	FACILITY SUPPORT	354	
109	CORRIDOR	331	
110	VISITATION	120	
111	VISITATION	120	
112	CONTROL ROOM	345	
113	EXISTING VESTIBULE	785	
114	NO-CONTACT VISITATION	55	
115	VESTIBULE	125	
116	EDUCATION ROOM #2	207	
117	EDUCATION ROOM #1	476	
118	EXISTING KITCHEN	1,059	
118a	EXISTING OFFICE	87	
119	EXISTING STORAGE	167	
120	EXISTING ELEC.	99	
121	EXISTING CORRIDOR	426	
122	VEST.	45	
123	BATHROOM	81	
124	ADMISSIONS	448	
125	TEMPORARY HOLDING	120	
126	TEMPORARY HOLDING	100	
127	MEDICAL EXAM	100	
128	RECREATION ROOM	1,063	
129	RECREATION ROOM	547	
130	LAUNDRY	319	
131	DAY ROOM	408	
132	ACCESSIBLE SLEEPING ROOM	121	
133	SLEEPING ROOM	121	
134	SLEEP'G ROOM	131	
135	SLEEPING ROOM	160	
136	EXISTING STORAGE	320	
137	EXISTING STORAGE	235	
138	SLEEP'G ROOM	134	
139	SLEEP'G ROOM	134	
140	SLEEP'G ROOM	134	
141	SLEEP'G ROOM	134	
142	Room	904	
143	SLEEPING ROOM	160	
144	SLEEPING ROOM	167	
145	SLEEPING ROOM	117	
146	SLEEPING ROOM	117	
147	CUSTODIAL	152	
148	PLUMBING CHASE	135	
149	PLUMBING CHASE	574	
150	PLUMBING CHASE	314	
151	PLUMBING CHASE	106	
152	PLUMBING CHASE	126	
153	CORRIDOR	625	
154	OUTDOOR RECREATION AREA	1,467	
155	OUTDOOR RECREATION AREA	10,076	

STATE DCS MINIMUM STANDARDS FOR PHYSICAL PLANT

0250-04-06-.08 PHYSICAL PLANT.
Per item (28) below, Any facility changing classification (e.g., Temporary Holding Resource changing to Juvenile Detention Center, etc.) shall meet all requirements of the new classification. The following list of requirements has been edited as it applies to this project as a new facility weither or not the existing Work House is utilized or a new building is built.

(1) Facility shall not be directly connected to any adult jail/facility complex. Provide for separation in budget of a new building located at the recently completed complex.

(2) Existing facilities located under the same roof or on the same grounds as an adult jail shall meet the criteria for physical separation, outlined in T.C.A. 37-1-116(b)2016 and as amended.

(3) The following minimum provisions shall be made by each facility:
(a) Sleeping areas shall be free from hazardous conditions that would facilitate suicide attempts or self harm.
(b) All sleeping and activity areas shall have lighting of at least twenty (20) foot-candles to be measured three (3) feet off the floor.
(c) Facilities shall have forced air ventilation in all sleeping and activity areas.
(d) Facilities shall have access to natural light in sleeping areas.
(e) Facilities shall maintain a temperature between sixty-five (65) degrees Fahrenheit and eighty (80) degrees Fahrenheit in sleeping and activity areas.

(4) The minimum size of a single sleeping room shall be fifty (50) square feet of unencumbered floor space with a ceiling height of not less than eight (8) feet. All dimensions of room length and width for both single and multiple-occupancy room shall allow for a reasonable amount of useable floor space for any in-room activities of youth and one wall measurement shall be at least 7 feet. Any issues pertaining to sufficiency of room dimensions shall be determined by the Department's licensing office. Each room shall contain a bunk, a toilet and a lavatory.

(5) Multiple sleeping rooms shall not be designed to accommodate more than eight (8) youth. A minimum of thirty-five (35) square feet of unencumbered floor space for each youth shall be provided in such sleeping areas with a ceiling height of not less than eight (8) feet. One wall measurement shall be at least seven (7) feet.

(6) (Operational Requirement.)

(7) Juvenile Detention Centers shall have a dayroom for each cluster of rooms. The dayroom shall offer a minimum of thirty-five (35) square feet of floor space per youth.

(8) All facilities shall provide operable toilets and washbasins to youth held in the facility at a ratio of at least one (1) toilet and washbasin to every eight (8) youth and one (1) toilet and washbasin accessible to occupants of any single-occupancy room without their having to leave their room.

(9) Facilities shall have at least one (1) operable shower for every sixteen (16) detained youth, which shall be accessible to youth without having to leave their designated area.

(10) Juvenile Detention Centers shall provide space inside the security perimeter, separate from living areas and administrative offices, for processing of youth as they are received and discharged from the facility. This space shall have the following components:
(a) Pedestrian sally port,
(b) Telephone facilities for detained youth to use,
(c) Temporary holding rooms which have fixed benches to seat youth, and
(d) A shower, toilet, and washbasin.

(11) (see (10) above)

(12) Provision shall be made for visitation areas.

(13) Provision shall be made for a private room to allow for discussions between clergy, attorneys and others authorized by the juvenile court.

(14) Juvenile Detention Center shall have at least one (1) multi-purpose room for education, recreation and other activities.

(15) The facility shall provide a secure outdoor recreation area with dimensions of at least thirty (30) feet by thirty (30) feet or an indoor recreation area of the same dimensions which has access to natural light.

(16) Space shall be provided where a health care professional may conduct sick call, examine patients in privacy and provide medical treatment.

(17) The Juvenile Detention Center shall have a secure control center, staffed continuously, through which telephone and other communications are channeled. The location of the control center shall provide line of sight visibility or be equipped with a monitoring device. The control center shall monitor the operation of security and life safety systems.

(18) Drinking fountains with potable water shall be located in all sleeping and activity areas of new facilities.

(19) An emergency power source shall be available to activate all forms of power failure. This emergency power source shall have sufficient capacity to operate security and evacuation electrical devices and equipment and to provide minimum lighting within the facility and its perimeter. The power source shall be checked for functional readiness quarterly and the dates logged.

(20) Facilities using electric locks shall also ensure that those locks may also be opened manually.

(21) Each facility shall have exit signs at each exit which are clearly marked and continuously illuminated. Exits shall be kept clear and in usable condition.

(22) Each facility shall be inspected and approved annually by the designated Fire Safety Authority and by representatives from the Tennessee Department of Health. The facility shall be in compliance with the applicable regulations and standards of these authorities, including the current Life Safety Code applicable to the facilities regulated hereunder in order to obtain or retain a license or approval to operate.

(23) All kitchens, dining rooms and toilet areas shall contain operable floor drains.

(24) There shall be rooms to accommodate each Juvenile Detention Facility's classification plan. Facilities that house both males and females shall have provisions to separate accordingly.

(25) Plans for any new facility construction or renovation shall be in compliance with minimum standards recorded herein and be submitted to the Department and the State Fire Marshal's office for review prior to the start of construction.

(26) Plans for any new facility construction or renovation shall include provisions for handicapped persons to have access to all facilities and services.

(27) The use of padlocks and chains to secure housing areas is prohibited.

(28) Any facility changing classification (e.g., Temporary Holding Resource changing to Juvenile Detention Center, etc.) shall meet all requirements of the new classification.

(29) All glass in the facility (windows, vision panels, etc.) shall be safety glass. All new construction, after January 1, 1981, shall have all windows, vision panels, etc., made of a mar-resistant poly carbonate laminate.

(30) The maintenance of hardware-secure rooms in Temporary Holding Resources shall be optional, with a maximum of two (2) occupants. At least half of the rooms in the facility shall be non-secure.
Other:
The facility shall have a written and graphic evacuation plan posted in the living area, as well as any other specified locations.

LOCAL DESIRES BEYOND MINIMUM STATE STANDARDS AND OTHER CLARIFICATIONS

1. IS THERE A DESIRE TO HAVE A DEDICATED EDUCATIONAL ROOM IN ADDITION TO THE REQUIREMENT FOR "AT LEAST ONE MULTI-PURPOSE ROOM FOR RECREATION AND OTHER ACTIVITES"?

2. DOES REQUIREMENT NO. (30) APPLY TO THE TEMPORARY HOLDING ROOMS IN THE RECEIVING/DISCHARGE AREA?

3. THE SINGLE LINE DIAGRAMS PROVIDED FOR THE LARGE CELL CONVERSION IMPLIES THAT A SHOWER IS PROVIDED OUTSIDE THE SLEEPING ROOMS. REQUIREMENT NO. (8) REFERS TO "WITHOUT THEIR HAVING TO LEAVE THEIR ROOM" AND REQUIREMENT NO. (9) REFERS TO "WITHOUT HAVING TO LEAVE THIER DESIGNATED AREA". OUR ASSUMPTION IS THAT SHOWERS ARE NOT REQUIRED WITHIN SLEEPING ROOMS. IS THAT CORRECT?

4. THE STATE STANDARDS REFER TO SINGLE-OCCUPANCY ROOMS. DO YOU DESIRE OR IS THERE A REQUIREMENT TO PROVIDE ANY SINGLE-OCCUPANCY ROOMS?

5. REQUIREMENT (7) REQUIRES DAYROOM(S) BE PROVIDED. A DAYROOM FOR 16 YOUTH WOULD REQUIRE A ROOM OF 560 SF OF FLOOR SPACE. THE LAST ROOM ON THE RIGHT COULD PROVIDE A DAYROOM FOR UP TO 14 YOUTH. ONE OF THE OTHER LARGE CELL ROOMS COULD PROVIDE DAYROOM FOR UP TO 24 YOUTH. THESE ASSUMPTIONS ARE BASED ON UNEMCUMBERED FLOOR SPACE. IF BOLTED DOWN TABLES ARE INCLUDED THE OCCUPANT LOAD WOULD BE REDUCED. CAN REQUIREMENT NO. (7) BE ACCOMODATED OPERATIONALLY? IN OTHER WORDS, IF A DAYROOM IS PROVIDED THAT ACCOMODATES ONLY 16 YOUTH OF 30 YOUTH HOUSED THEN COULD THE REMAINING YOUTH UTILIZE THE SAME ROOM AT A DIFFERENT TIME?

6. REQUIREMENT (24) REQUIRES CLASSIFICATION PLAN ROOMS. COULD YOU CLARIFY HOW MANY ROOMS AND SIZE?

7. CONFIRM THAT THE JUNE 2017 VERSION OF RULES OF TENNESSEE DEPARTMENT OF CHILDREN'S SERVICES LEGAL DIVISION CHAPTER 0250-04-06 MINIMUM STANDARDS FOR JUVENILE DETENTION CENTERS AND TEMPORARY HOLDING RESOURCES IS THE APPROPRIATE VERSION FOR THIS PROJECT.

8. IS A SAFE REQUIRED?
IF SO, WHAT SIZE?
REMOVAL OF EXISTING SAFE WILL/COULD PROVIDE ADMINISTRATIVE SPACE.

IBC REQUIREMENTS

BUILDING'S USE AND OCCUPANCY CLASSIFICATION: INSTITUTIONAL GROUP I-3 CONDITION 5

408.3.6 Exit discharge. Exits are permitted to discharge into a fenced or walled courtyard. Enclosed yards or courts shall be of a size to accommodate all occupants, be located not less than 50 feet from the building and have an area of not less than 15 square feet per person.

408.5 Smoke barrier. Occupancies in Group I-3 shall have smoke barriers complying with Sections 408.8 and 709 to divide every story occupied by residents for sleeping into not fewer than two smoke compartments.

408.8.2 Occupancy Condition 5. Each sleeping area in Occupancy Condition 5 shall be separated from adjacent sleeping areas, corridors and common spaces by a smoke-tight partition. Additionally, common spaces shall be separated from the corridor by a smoke-tight partition.

408.8.3 Openings in room face. The aggregate area of openings in a solid sleeping room face in Occupancy Conditions 5 shall not exceed 120 square inches. The aggregate area shall include all openings including door undercuts, food passes and grilles. Openings shall be not more than 36 inches (914 mm) above the floor. In Occupancy Condition 5, the openings shall be closable from the room side.

408.8.4 Smoke tight doors. Doors in openings in partitions required to be smoke tight by Section 408.8 shall be substantial doors, of construction that will resist the passage of smoke. Latches and door closers are not required on cell doors.

408.9 Windowless buildings. For the purposes of this section, a windowless building or portion of a building is one with nonoperable windows, windows not easily breakable or without windows. Windowless buildings shall be provided with an engineered smoke control system to provide a tenable environment for exiting from the smoke compartment in the area of fire origin in accordance with Section 909 for each windowless smoke compartment.

408.11 Automatic sprinkler system. Group I-3 occupancies shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.2.6.

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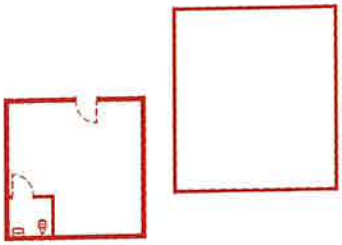
PROGRAMING NOTES

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO. 2050
DATE: Issue Date
SHEET NO.
G1.02

1 DEMOLITION PLAN
1/8" = 1'-0"



DEMOLITION PLAN

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO 2050

DATE

Issue Date

SHEET NO D1.01

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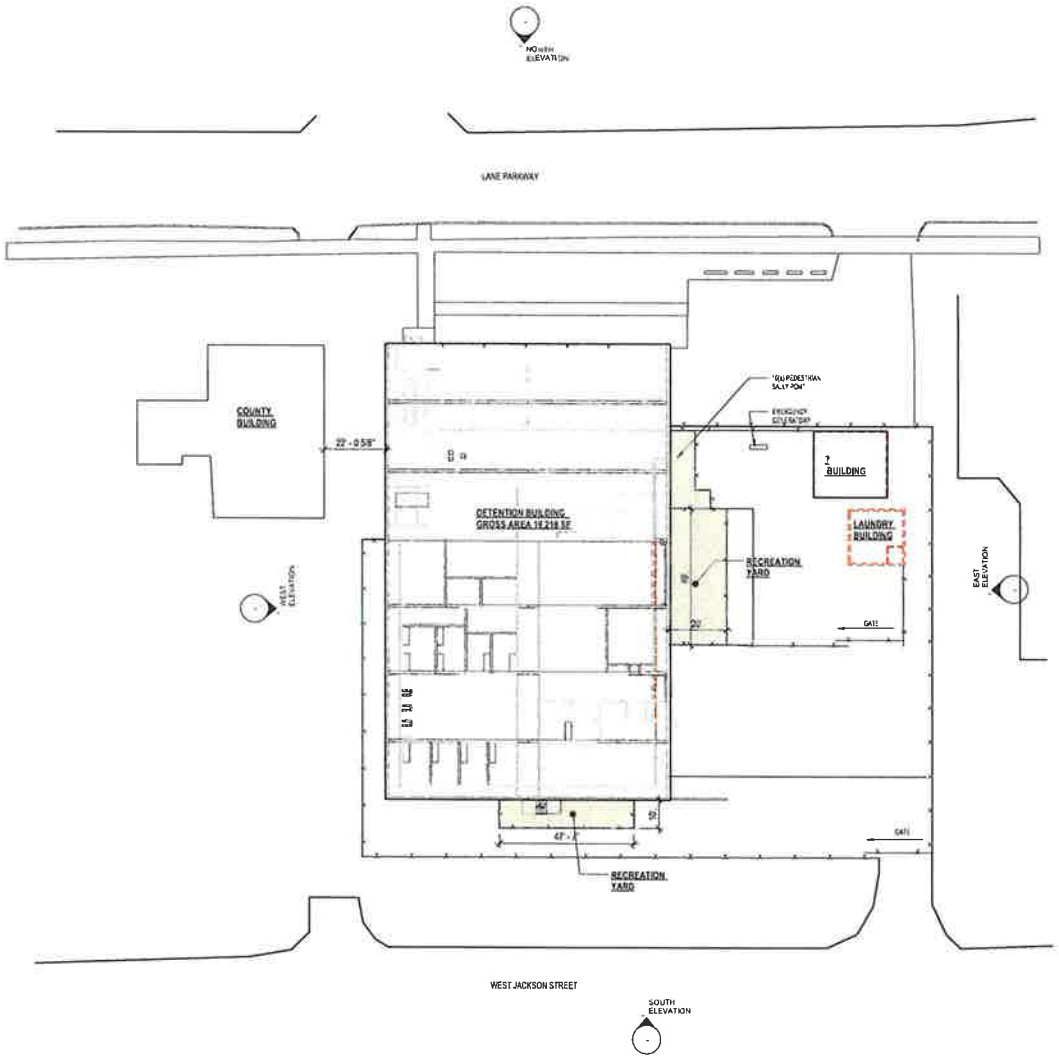

1 EXISTING SITE PLAN
1" = 20'-0"

GROSS BUILDING AREA = 18,218 SF

BUILDING HEIGHT = '4' - FT

CONSTRUCTION TYPE: VB - FULLY SPRINKLERED

ALLOWABLE BUILDING HEIGHT 60'

ALLOWABLE GROSS BUILDING AREA: 20 000 SF

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS = ZERO (0) HOURS

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS
BASED ON FIRE SEPARATION DISTANCE OF ≤ 10' ZERO (0) HOURS

OCCUPANT LOAD IN DETERMINING MEANS OF EGRESS REQUIREMENTS
- ACCESSORY STORAGE AREAS, MECHANICAL ROOMS
  - 300 SF GROSS FLOOR AREA/OCCUPANT
- BUSINESS AREAS
  - 150 SF GROSS FLOOR AREA/OCCUPANT
- EDUCATIONAL CLASSROOM AREAS
  - 20 SF NET FLOOR AREA/OCCUPANT
- EXERCISE ROOMS:
  - 50 SF GROSS FLOOR AREA/OCCUPANT
- INSTITUTIONAL SLEEPING AREAS
  - 120 SF GROSS FLOOR AREA
- KITCHENS
  - 200 SF GROSS FLOOR AREA/OCCUPANT

MEANS OF EGRESS SIZING OCCUPANT LOAD X 0.15

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
- MAXIMUM OCCUPANT LOAD OF SPACE = 49 PEOPLE
- MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE = 100 FEET

DEAD END CORRIDORS:	MAX. DEAD END LENGHT:
1-3 CONDITION 4 REMOTE CONTROLLED DOOR RELEASE	50 FEET
1-3 CONDITION 5 STAFF CONTROLLED MANUAL RELEASE	25 FEET

EXISTING FACILITY PROGRAM DEFICIENCIES

1. REQUIREMENT #15 NEITHER OUTDOOR RECREATION AREA PROVIDES MINIMUM DIMESIONS OF 30' X 30'.
2. ADA DEFICIENCIES INCLUDE
   A. ___
3.

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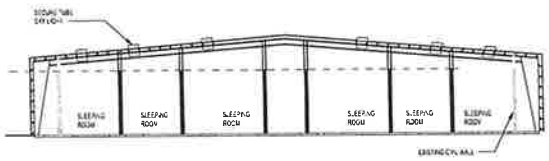
ARCHITECTURAL SITE PLAN

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. A1.00



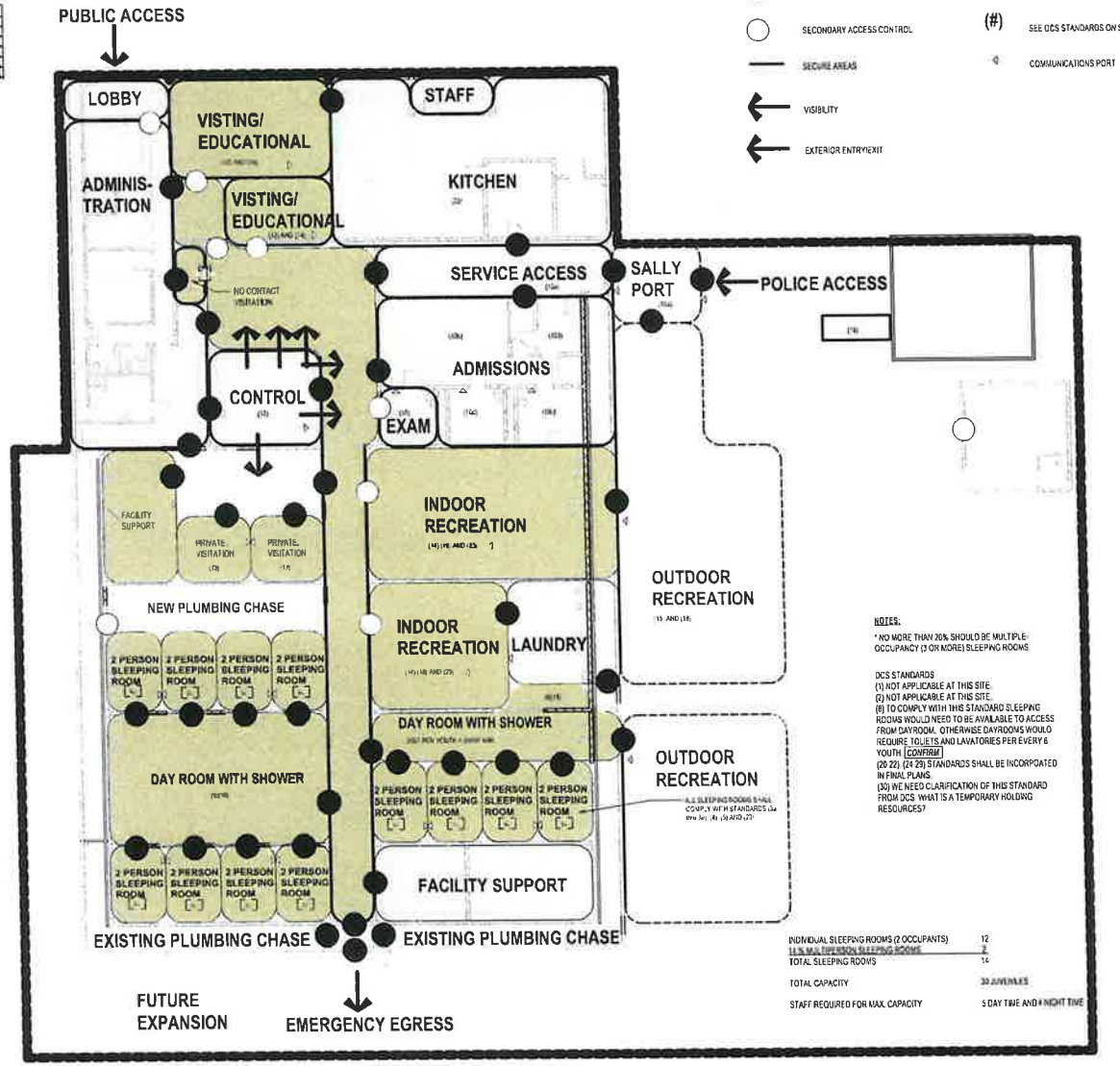
2 DAY LIGHTING INTO CELLS
3/32" = 1'-0"

NOTES:

1. THIS CONCEPT ENVISIONS MINIMAL RENOVATIONS FOR A TEMPORARY FACILITY UP TO 5-10 YEARS. THE DAYLIGHTING WOULD BE PROVIDED BY SECURE TUBE SKYLIGHTS.
2. QUOTES AND MANY PHRASES BELOW COME FROM THE DOCUMENT JUVENILE ACCOUNTABILITY INCENTIVE BLOCK GRANTS PROGRAM BULLETIN FROM THE U.S. DEPT. OF JUSTICE.

QUESTIONS:

1. IS THERE A NEED FOR A "NON-CONTACT" VISITING ROOM? YES
2. IS THERE A NEED FOR "INTERVIEW ROOMS" WITHIN OR IMMEDIATLEY ADJACENT TO THE HOUSING UNITS? YES
3. IS THERE A NEED FOR "ADDITIONAL STORAGE SPACE" (for clothes, linens, and other items used on the unit) WITHIN OR IMMEDIATLEY ADJACENT TO THE HOUSING UNITS?
4. IS THERE A NEED FOR "TIMEOUT ROOMS"?
5. IS THERE A DESIRE FOR "GROUP LIVING SPACES" ADJACENT TO THE SLEEPING ROOMS? YES
6. IS THERE A DESIRE TO PROVIDE JANITOR CLOSETS THAT FACILITATE RESIDENT PARTICIPATION?
6. IS THERE A NEED FOR SEPARATE/DECIATED COUNSELING SPACE(S)?



LEGEND

- SECURE ACCESS CONTROL
- SECONDARY ACCESS CONTROL
- SECURE AREAS
- VISIBILITY
- EXTERIOR ENTRY/EXIT
- SKY LIGHT
- (#) SEE DCS STANDARDS ON SHEET G1.02
- COMMUNICATIONS PORT

NOTES:

* NO MORE THAN 20% SHOULD BE MULTIPLE-OCCUPANCY (3 OR MORE) SLEEPING ROOMS

DCS STANDARDS
(1) NOT APPLICABLE AT THIS SITE.
(2) NOT APPLICABLE AT THIS SITE.
(8) TO COMPLY WITH THIS STANDARD SLEEPING ROOMS WOULD NEED TO BE AVAILABLE TO ACCESS FROM DAYROOM. OTHERWISE DAYROOMS WOULD REQUIRE TOILETS AND LAVATORIES PER EVERY 8 YOUTH. CONFIRM
(20-22), (24-29) STANDARDS SHALL BE INCORPOATED IN FINAL PLANS.
(30) WE NEED CLARIFICATION OF THIS STANDARD FROM DCS. WHAT IS A TEMPORARY HOLDING RESOURCES?

INDIVIDUAL SLEEPING ROOMS (2 OCCUPANTS)	12
11.5% MULTIPERSON SLEEPING ROOMS	2
TOTAL SLEEPING ROOMS	14
TOTAL CAPACITY	30 JUVENILES
STAFF REQUIRED FOR MAX CAPACITY	5 DAY TIME AND 4 NIGHT TIME

1 SPATIAL RELATIONSHIP DIAGRAM FOR PARTIAL RENOVATION OF EXISTING FACILITY FOR SHORT TERM USE
1" = 10'-0"

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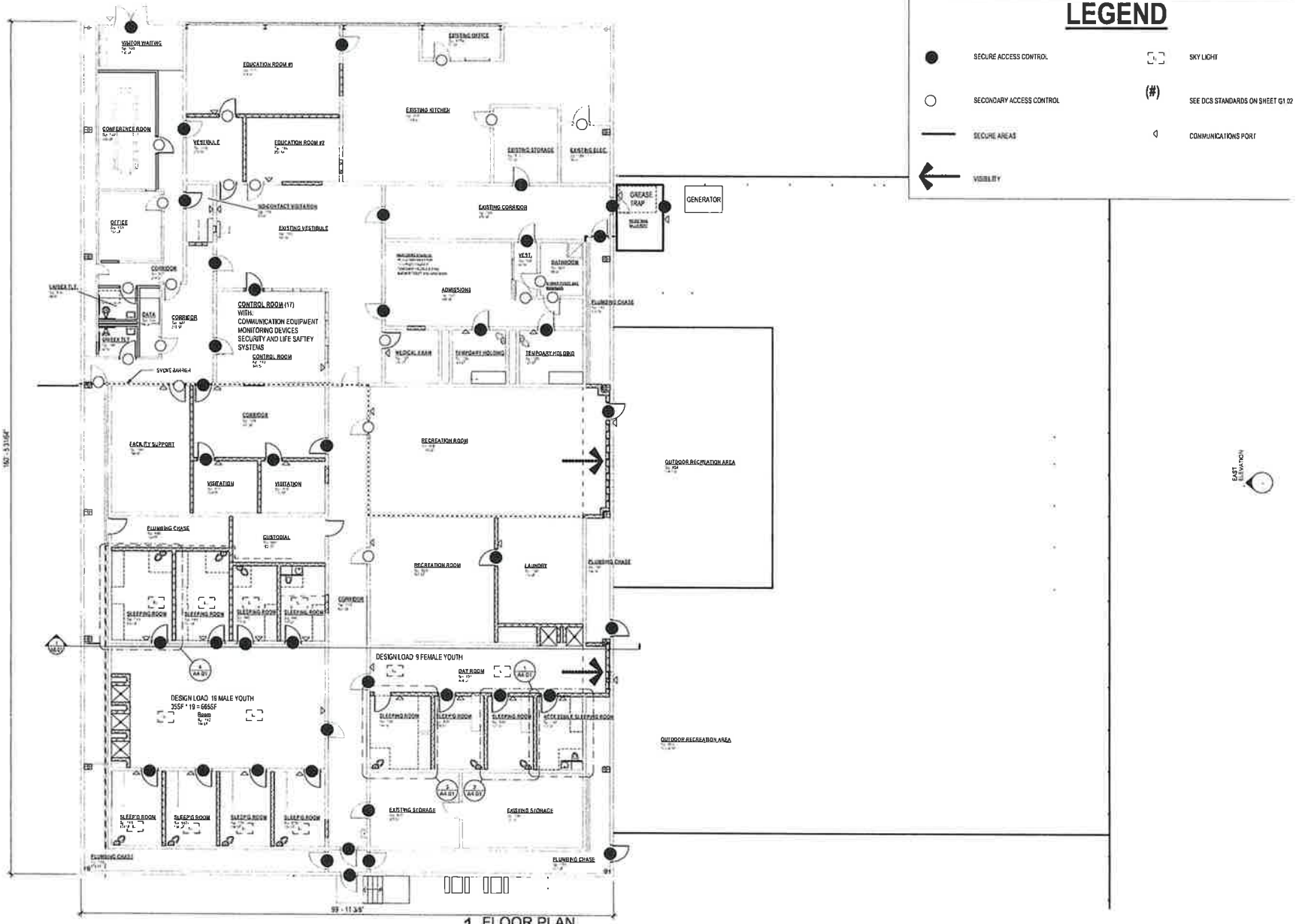
SPACTIAL RELATIONSHIPS DIAGRAM "B"

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. A1.01b



1 FLOOR PLAN
1/8" = 1'-0"

LEGEND

●	SECURE ACCESS CONTROL	[ ]	SKY LIGHT
○	SECONDARY ACCESS CONTROL	(#)	SEE DCS STANDARDS ON SHEET G1.02
—	SECURE AREAS	◁	COMMUNICATIONS PORT
←	VISIBILITY		

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FLOOR PLAN - NOTED

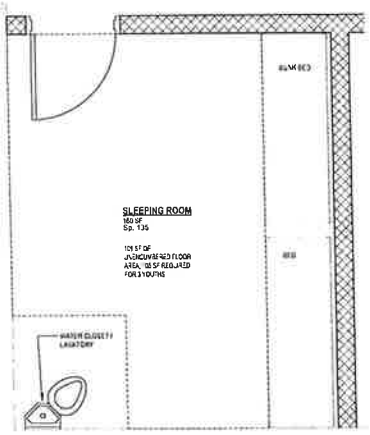
PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

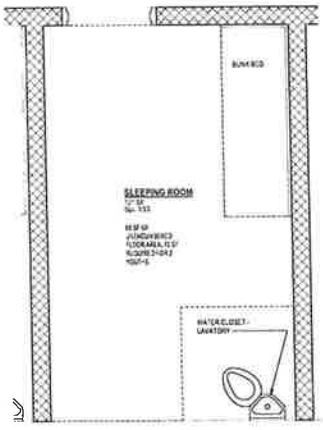
PROJECT NO. 2050

DATE Issue Date

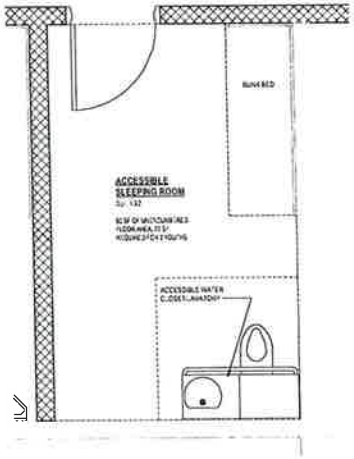
SHEET NO. A1.01n



3 THREE PERSON SLEEPING ROOM
SP135
1/2" = 1'-0"



2 TWO PERSON SLEEPING ROOM PLAN
SP. 133
1/2" = 1'-0"



1 TWO PERSON ACCESSIBLE SLEEPING ROOM PLAN
SP. 132
1/2" = 1'-0"

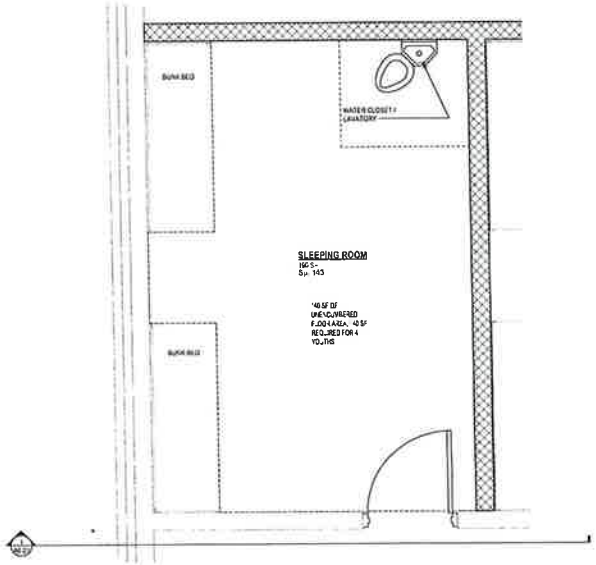
(5) Multiple sleeping rooms shall not be designed to accommodate more than eight (8) youth. A minimum of thirty-five (35) square feet of unencumbered floor space for each youth shall be provided in such sleeping areas, with a ceiling height of not less than eight (8) feet. One wall measurement shall be at least seven (7) feet.

Each room shall contain a bunk, a toilet and a lavatory.

NOTE:
AS CURRENTLY DESIGNED THESE ROOMS ONLY HAVE ENOUGH ROOM FOR BUNKS, TOILET AND LAVATORY. IF ADDITIONAL FURNISHINGS ARE PROVIDED THEN ROOMS WILL NEED TO BE BIGGER OR NUMBER OF OCCUPANTS REDUCED. OWNER SHALL PROVIDE DESIGNER LIST OF FURNISHING TO BE PROVIDED AND THE DIMENSIONS.

LIST OF FURNISHINGS:

ITEM:	SIZE:
BUNK(S)	28" X 81"



4 FOUR PERSON SLEEPING ROOM PLAN
SP.143
1/2" = 1'-0"

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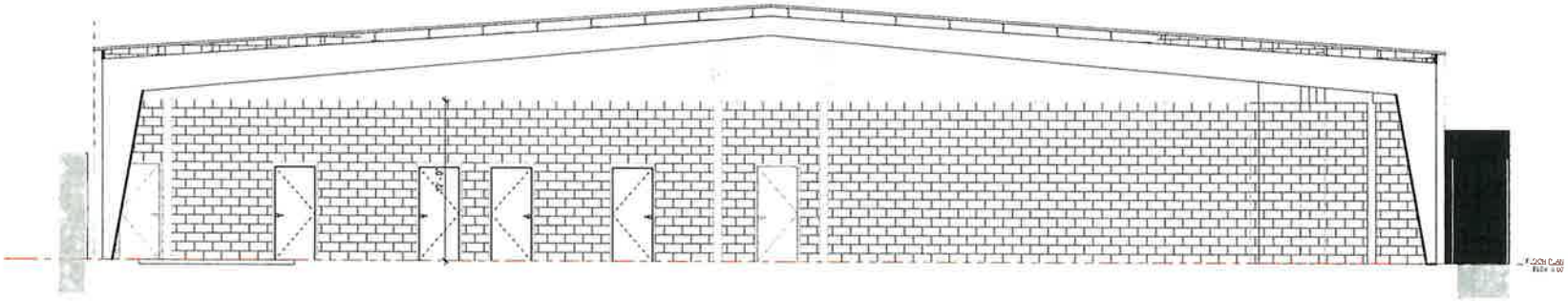
LARGE SCALE PLANS

PROGRAMMING PHASE/FEASABILITY STUDY FOR JUVENILE DETENTION FACILITY FOR BEDFORD COUNTY

REVISIONS

PROJECT NO 2050
DATE Issue Date
SHEET NO. A4.01



1 Section 3
1/4" = 1'-0"

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SECTIONS

PROGRAMMING PHASE/FEASABILITY STUDY
FOR JUVENILE DETENTION FACILITY FOR
BEDFORD COUNTY

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. A6.01

LEGEND

- SECURE ACCESS CONTROL
- SECONDARY ACCESS CONTROL
- SECURE AREAS
- VISIBILITY
- EXTERIOR ENTRY/EXIT
- WINDOW (3d)
- (#) SEE DCS STANDARDS ON SHEET G1.02

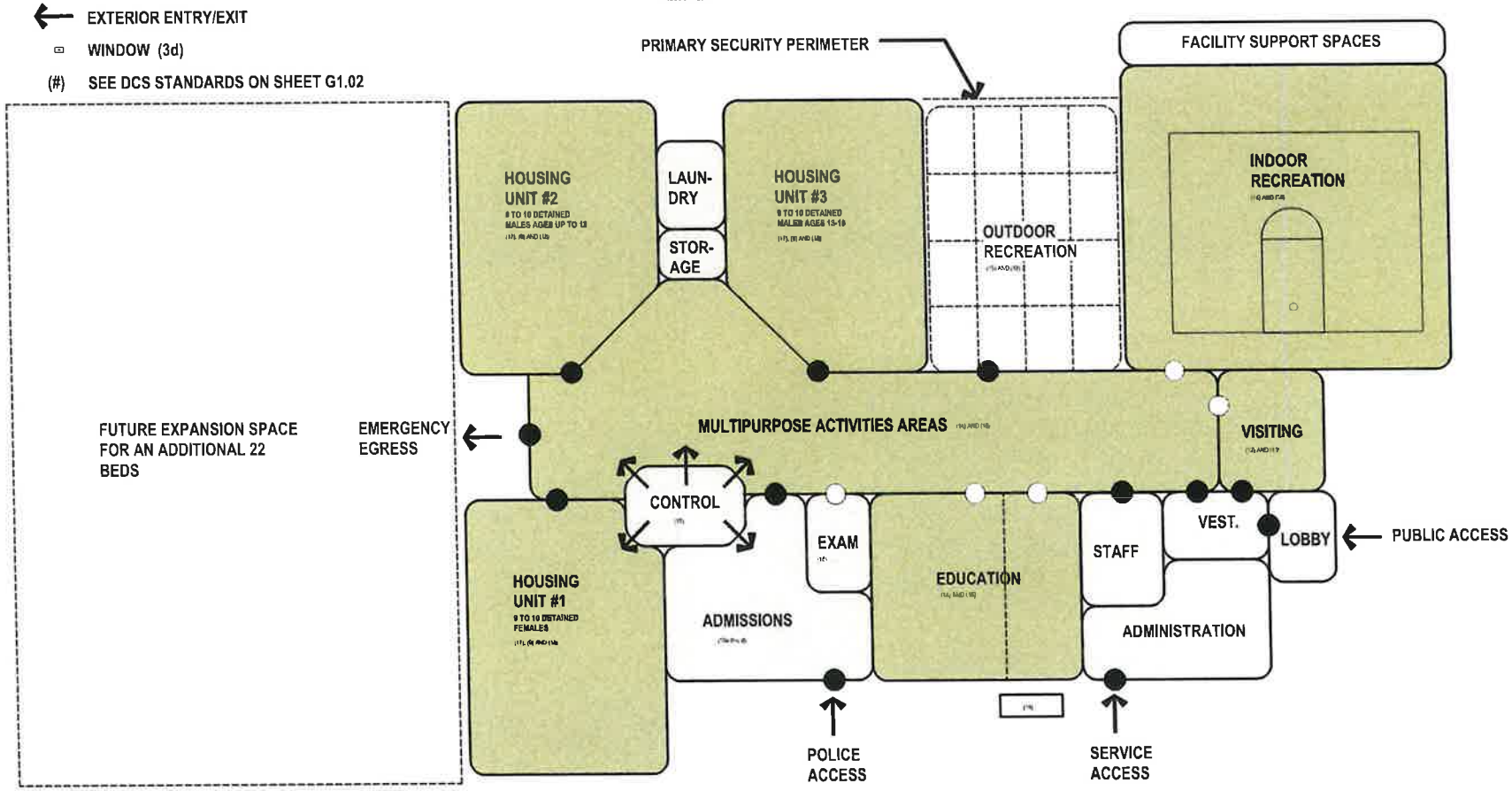
GENERAL NOTES:

1. BED CAPACITY 27

NOTES:

* NO MORE THAN 20% SHOULD BE MULTIPLE-OCCUPANCY (3 OR MORE) SLEEPING ROOMS

DCS STANDARDS
(1) PROVIDE SECURITY FENCING AND VEHICULAR ACCESS SUCH THAT IT IS NOT DIRECTLY CONNECTED TO THE ADULT JAIL
(2) THIS WOULD BE A NEW FACILITY. SEE STAND (1) ABOVE.
(8) TO COMPLY WITH THIS STANDARD SLEEPING ROOMS WOULD NEED TO BE AVAILABLE TO ACCESS FROM DAYROOM. OTHERWISE DAYROOMS WOULD REQUIRE TOILETS AND LAVATORIES PER EVERY 8 YOUTH. CONFIRM
(20 22), (24 29) STANDARDS SHALL BE INCORPOATED IN FINAL PLANS.
(30) WE NEED CLARIFICATION OF THIS STANDARD FROM DCS. WHAT IS A TEMPORARY HOLDING RESOURCES?



1 SPATIAL RELATIONSHIP DIAGRAM FOR NEW FACILITY AT THE COUNTY'S JUSTICE COMPLEX
1" = 10'-0"

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SPACTIAL RELATIONSHIPS DIAGRAM "C"

Juvenile Detention Facility
205 Lane Parkway, Shelbyville, Tennessee 37160

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. A1.01c

ADAPTED FROM THE U.S. DPARTMENT OF JUSTICE

For a secure juvenile facility to work well, it must first and foremost be a safe place. Residents should be able to leave and the public enter only at staff's discretion. The facility must be easy to manage, supervise, and maintain, and it must resist the hard use—and at times abuse—of the young people who reside there. It needs adequate space for required and desired programs and services.

The space must be arranged in a way that allows staff to do their jobs and residents to do what is required of them in a flexible manner. A review of plans and programs for juvenile facilities reveals a variety of physical and operational approaches. The approach chosen depends on a community's circumstances and attitudes. We try to be responsive to both your specific needs and the constraints imposed by budgets and sites. This facility must be designed with information on your specific expectations and the needs of those who will use and manage the building. Careful consideration the following factors, will allow you to determine the best possible approach for the physical design of your facility.

- There are Diverse methods of managing juvenile behavior. What are yours?
- Resident and staff responses to the physical environment.
- What is your daily program structure?
- Staffing patterns and costs.
- Circulation and space-sharing patterns in a facility.
- Responses to emergencies and other situations.

Considering these factors may lead us to discover that a proposed design provides security but fails to achieve other essential goals. Because a successful design is based on the operational priorities of a particular project, rote design (i.e., one that proceeds without considering such priorities) will only compromise the project's goals and ultimate effectiveness. There is no magical "best approach" to facility design. In developing any new or expanded facility, we must find our own best approach, basing designs on our own expectations, rather than on preconceived architectural notions. The architectural/operational programming process described below permits such an individualized approach.

3. Architectural/Operational Programming

With the demands for improved security and program quality, predesign planning is very important. Operational programming which should involve key agency and community decision makers, court representatives, service providers, and other community stakeholders involved having these parties examine closely what they intend to accomplish with a proposed facility. Failure to involve all concerned parties in the process can lead to confusion and dissension.

The operational programming process typically begins with a review of a facility's proposed vision and mission statements (e.g., to protect the public and prevent flight from prosecution, provide a safe and secure environment, deliver programming and services consistent with legal requirements, and ensure resident health and welfare). These statements may serve as the foundation for building a hierarchy of programs and spaces. In many cases, however, the statements only begin to scratch the surface of expectations for a facility.

A comprehensive range of philosophical and operational imperatives should be established before physical planning activities begin. Such imperatives may include:

- Implementing behavior management methods.
- Respecting juvenile rights and recognizing juvenile needs.
- Providing programs that address juvenile, system, and family needs.
- Implementing methods for fostering resident accountability, cooperation, and participation.
- Recognizing the importance of resident skills assessment and development.
- Recognizing the importance of family involvement with residents.
- Emphasizing effective intervention and treatment or punishment.
- Appreciating and responding to resident gender, culture, religion, and ethnicity.
- Recognizing the value of links to community and transition services.
- Emphasizing the importance of returning juveniles to productive roles in the community.

These factors, among others, should guide the continuing development and refinement of programs, staffing patterns, environmental quality, and spaces at a proposed facility. If a facility and its services are to succeed, we should address the use of space only after all other priorities have been established.

Next, operational programming should investigate the following specific issues:

- Security and supervision methods ?
- Optimal residential group size for housing and activities. 2 PER SLEEPING ROOM AND 10 PER ACTIVITIES.
- Classification. 10-12 YEAR OLD MALES, 13-16 YEAR OLD MALES AND 10-16 YEAR OLD FEMALES
- Special needs groups. PLAN FOR PHYSICALLY DISABLED, MENTALLY DISABLED ....?
- Scope of daily programs and services. ?
- Scheduling of activities. ?
- Visual/physical connections between activities. NO HIDING SPOTS, STAFF DESK IN HOUSING UNIT? SHOWERS?
- Resident circulation and movement. DESIRED APPROACH IS ...?
- Environmental priorities (sound, lighting, furnishings, appearance, image). ?
- Maintenance and repair (durability, life cycle costs). HARD SURFACES, DAMAGE RESISTANT GLASS....
- Staff communications and support. ?
- Potential staffing requirements and costs. ?
- Staff qualifications and training requirements. ?
- Codes and standards requirements. TN DCS'S MIN. STANDARDS FOR JUVENILE DETENTION CENTERS, IBC 2009 AND BEDFORD COUNTY AMMENDMENTS.
- Operational flexibility. ?
- Future expansion potential. DESIGN TO ACCOMODATE 27 BEDS
- Construction cost parameters. KSA WILL PROVIDE CONSTRUCTION COST ESTIMATES

A review of these specific issues will help to determine a facility's essential operational concepts and identify developmental options that are responsive to these essential concepts.

Following close on the heels of operational programming, architectural planning takes all of the previously assembled information and begins to enter real numbers and specific spaces into the equation.

Once your facility's major functions have been identified, the architectural planning process examines the various activities that take place in different areas, the number of people involved, and the times these activities occur. This analysis generates net area (square footage) requirements for anticipated activities. Net area requirements are then combined with circulation and other requirements related to resident and staff movement within the building, the need for other spaces (mechanical rooms, electrical closets, and various undefined spaces), and additional space required for wall thickness and other structural elements. This calculation yields the gross building area or total square footage required for the building. It is not unusual for the total square footage required by a residential facility to be up to 50-percent greater than the net area required for actual user activities.

While individual space requirements for facility functions are being developed (see table 1), we will explore with facility operators factors—scheduling, potential circulation patterns, supervision and staffing requirements, and options for connecting various spaces and activity zones to be considered in determining spatial arrangements. We will then develop construction diagrams that show the most efficient visual and physical connections (functional adjacencies) and indicate access control points and circulation patterns. See three options, A, B and C that we have drafted for first discussions.

The facility's design can succeed only to the extent that it meets the needs and expectations of its users. Building a residential facility is expensive and, once construction begins, there is generally no chance to make changes to revised programs. Comprehensive operational programming and architectural planning provide facility planners with an opportunity to make the best possible decisions from the outset, before committing plans to brick and mortar.

Space Considerations

Defining the gross building area and general spatial arrangements makes it possible to project capital construction costs and related expenditures for furnishings, fees, and site work. Because these projections may form the basis for funding procurement and for ensuring that a building is constructed within budget, the related analysis of space considerations must be thorough. The process of examining space considerations and projecting costs must precede physical design efforts to ensure that all operational objectives are achieved and to prevent costly changes in scope during subsequent design phases (DeWitt, 1987).

The amount of space required for various facility functions depends on many factors, including State licensing and building codes, professional standards of practice (American Correctional Association, 1991a, 1991b, 1991c), and the operational priorities and methods governing where, when, and how activities are to take place. Operational factors should be given high priority because building codes and standards typically do little more than prescribe minimum spatial requirements. Facility staff may require the flexibility to depart from certain professional standards of practice to fulfill operational needs specific to their own facility.

Although spatial requirements for secure juvenile facilities vary depending on a facility's capacity and scope of activities, these requirements usually include more space per resident than is required in facilities designed for adults. The demand for a high level of service and activity at juvenile facilities to keep juveniles occupied during the day and to facilitate the intervention process requires more space.

In facilities with 50 or fewer residents, spatial allocations of 750 to 800 square feet per resident are not uncommon. Larger facilities, which achieve certain economies of scale, may reasonably average 600 to 700 square feet per resident. A design that significantly exceeds these ranges without offering compelling justification may be seen as overly generous. On the other hand, one that provides significantly less space may jeopardize a facility's functionality.

Table 1: Sample Space Listing (Housing Component)

Space Number	Space/Area	Quantity	Square Feet/Square	Total Net Feet	Comments
5.100	Bedrooms (Standard) Single User, Toilet	9	70	630	
5.101	Bedroom (ADA Access)* Single User, Toilet	1	100	100	
5.102	Quiet Living/Bayroom Users, Natural Lighting	1	500	500	10
5.103	Staff Desk Open Station, Telephone	1	30	30	
5.104	Restroom/Shower Single User, ADA Access	1	70	70	
5.105	Shower Single User	1	40	40	
5.106	Storage/Janitor Closet Janitor Sink	1	80	80	With
			Total Net Square Feet	1,450	
			Six Units (60 Beds) @ 1,450 NSF/Unit	8,700	

Note: Space Listing covers general population housing units with 10 beds.
* Bedroom must be accessible according to standards of the Americans With Disabilities Act (ADA)

JUVENILE CAPACITY BASED ON NUMBER OF STAFF

CURRENT SCHEDULABLE STAFF = 5	2 NIGHT TIME AND 3 DAY TIME STAFF	CAPACITY = 18	37.8% PLUS 9
ADD 3 STAFF = 8 SCHEDULABLE STAFF	3 NIGHT TIME AND 5 DAY TIME STAFF	CAPACITY = 27	29.6% PLUS 12
ADD 4 STAFF = 9 SCHEDULABLE STAFF	4 NIGHT TIME AND 5 DAY TIME STAFF	CAPACITY = 30	30.0% PLUS 15
*ADD 5 STAFF = 10 SCHEDULABLE STAFF	4 NIGHT TIME AND 6 DAY TIME STAFF	CAPACITY = 36	27.8% PLUS 18
ADD 6 STAFF = 11 SCHEDULABLE STAFF	5 NIGHT TIME AND 6 DAY TIME STAFF	CAPACITY = 38	30.5% PLUS 24
ADD 7 STAFF = 12 SCHEDULABLE STAFF	5 NIGHT TIME AND 7 DAY TIME STAFF	CAPACITY = 42	28.6% PLUS 27
ADD 8 STAFF = 13 SCHEDULABLE STAFF	5 NIGHT TIME AND 8 DAY TIME STAFF	CAPACITY = 45	28.9% PLUS 30
ADD 9 STAFF = 14 SCHEDULABLE STAFF	6 NIGHT TIME AND 8 DAY TIME STAFF	CAPACITY = 48	29.2% PLUS 36
*ADD 10 STAFF = 15 SCHEDULABLE STAFF	6 NIGHT TIME AND 9 DAY TIME STAFF	CAPACITY = 54	27.8%

* MOST EFFICIENT STAFF COUNTS

STATE DCS MINIMUM STANDARDS FOR PHYSICAL PLANT

0250-04-06-.08 PHYSICAL PLANT.
Per item (28) below, Any facility changing class fication (e.g., Temporary Holding Resource changing to Juvenile Detention Center, etc.) shall meet all requirements of the new classification. The following list of requirements has been edited as it applies to this project as a new facility with or not the existing Work House is utilized or a new building is built.

(1) Facility shall not be directly connected to any adult jail facility complex. Provide for separation in budget of a new building located at the recently completed complex.

(2) Existing facilities located under the same roof or on the same grounds as an adult jail shall meet the criteria for physical separation, outlined in T.C.A. §37-1-116(b)2016 and as amended.

(3) The following minimum provisions shall be made by each facility:
(a) Sleeping are as shall be free from hazardous conditions that would facilitate suicide attempts or self-harm.
(b) All sleeping and activity are as shall have lighting of at least twenty (20) foot-candles to be measured three (3) feet off the floor.
(c) Facilities shall have forced air ventilation in all sleeping and activity areas.
(d) Facilities shall have access to natural light in sleeping areas.
(e) Facilities shall maintain a temperature between sixty-five (65) degrees Fahrenheit and eighty (80) degrees Fahrenheit in sleeping and activity areas.

(4) The minimum size of a single sleeping room shall be fifty (50) square feet of unencumbered floor space with a ceiling height of not less than eight (8) feet. All dimensions of room length and width for both single and multiple occupancy room shall allow for a reasonable amount of useable floor space for any in-room activities of youth and one wall measurement shall be at least 7 feet. Any issues pertaining to sufficiency of room dimensions shall be determined by the Department's licensing office. Each room shall contain a bunk, a toilet and a lavatory.

(5) Multiple sleeping rooms shall not be designed to accommodate more than eight (8) youth. A minimum of thirty-five (35) square feet of unencumbered floor space for each youth shall be provided in such sleeping areas, with a ceiling height of not less than eight (8) feet. One wall measurement shall be at least seven (7) feet.

(6) (Operational Requirement)

(7) Juvenile Detention Centers shall have a dayroom for each cluster of rooms. The dayroom shall offer a minimum of thirty-five (35) square feet of floor space per youth.

(8) All facilities shall provide operable toilets and washbasins to youth held in the facility at a ratio of at least one (1) toilet and washbasin to every eight (8) youth and one (1) toilet and washbasin accessible to occupants of any single-occupancy room without the r having to leave their room.

(9) Facilities shall have at least one (1) operable showers for every sixteen (16) detained youth, which shall be accessible to youth without having to leave their designated area.

(10) Juvenile Detention Centers shall provide space inside the security perimeter, separate from living areas and administrative offices, for processing of youth as they are received and discharged from the facility. This space shall have the following components:
(a) Pedestrian sally port;
(b) Telephone facilities for detained youth to use;
(c) Temporary holding rooms which have fixed benches to seat youth; and
(d) A shower, toilet, and washbasin.
(11) (see (10) above)

(12) Provision shall be made for visitation areas.

(13) Provisions shall be made for a private room to allow for discussions between clergy, attorneys and others authorized by the juvenile court.

(14) Juvenile Detention Center shall have at least one (1) multi-purpose room for education, recreation and other activities.

(15) The facility shall provide a secure outdoor recreation area with dimensions of at least thirty (30) feet by thirty (30) feet or an indoor recreation area of the same dimensions which has access to natural light.

(16) Space shall be provided where a health care professional may conduct sick call, examine patients in privacy and provide medical treatment.

(17) The Juvenile Detention Center shall have a secure control center, staffed continuously, through which telephone and other communications are channeled. The location of the control center shall provide line of sight visibility or be equipped with a monitoring device. The control center shall monitor the operation of security and life safety systems.

(18) Drinking fountains with potable water shall be located in all sleeping and activity areas of new facilities.

(19) An emergency power source shall be available to activate at times of power failure. The emergency power source shall have sufficient capacity to operate security and evacuation electrical devices and equipment and to provide minimum lighting within the facility and its perimeter. The power source shall be checked for functional readiness quarterly and the data logged.

(20) Facilities using electric locks shall also ensure that those locks may also be opened manually.

(21) Each facility shall have exit signs at; each exit which are distinctly marked and continuously illuminated. Exits shall be kept clear and in usable condition.

(22) Each facility shall be inspected and approved annually by the designated Fire Safety Authority and by representatives from the Tennessee Department of Health. The facility shall be in compliance with the applicable regulations and standards of these authorities, including the current Life Safety Code applicable to the facilities regulated hereunder in order to obtain or retain a license or approval to operate.

(23) All kitchens, dining rooms and toilet areas shall contain operable floor drains.

(24) There shall be rooms to accommodate each Juvenile Detention Facility's classification plan. Facilities that house both males and females shall have provisions to separate accordingly.

(25) Plans for any new facility construction or renovation shall be in compliance with minimum standards recorded herein and be submitted to the Department and the State Fire Marshal's office for review prior to the start of construction.

(26) Plans for any new facility construction or renovation shall include provisions for handicapped persons to have access to all facilities and services.

(27) The use of padlocks and chains to secure housing areas is prohibited.

(28) Any facility changing classification (e.g., Temporary Holding Resource changing to Juvenile Detention Center, etc.) shall meet all requirements of the new classification.

(29) All glass in the facility (windows, vision panels, etc.) shall be safety glass. All new construction, after January 1, 1991, shall have all windows, vis on panels, etc. made of a mar res tant acry c or bonate laminate.

(30) The maintenance of hardware-secure rooms in Temporary Holding Resources shall be optional, with a maximum of two (2) occupants. At least half of the rooms in the facility shall be non-secure.
Other
The facility shall have a written and graphic evacuation plan posted in the living area, as well as any other specified locations.

LOCAL DESIRES BEYOND MINIMUM STATE STANDARDS AND OTHER CLARIFICATIONS

1. IS THERE A DESIRE TO HAVE A DEDICATED EDUCATIONAL ROOM IN ADDITION TO THE REQUIREMENT FOR "AT LEAST ONE MULT-PURPOSE ROOM FOR RECREATION AND OTHER ATCIVITIES?

2. DOES REQUIREMENT NO. (30) APPLY TO THE TEMPORARY HOLDING ROOMS IN THE RECEIVING/DISCHARGE AREA?

3. THE SINGLE LINE DIAGRAMS PROVIDED FOR THE LARGE CELL CONVERSION IMPLIES THAT A SHOWER IS PROVIDED OUTSIDE THE SLEEPING ROOMS. REQUIREMENT NO. (8) REFERS TO "WITHOUT THEIR HAVING TO LEAVE THEIR ROOM" AND REQUIREMENT NO. (9) REFERS TO "WITHOUT HAVING TO LEAVE THEIR DESIGNATED AREA". OUR ASSUMPTION IS THAT SHOWERS ARE NOT REQUIRED WITHIN SLEEPING ROOMS. IS THAT CORRECT?

4. THE STATE STANDARDS REFER TO SINGLE-OCCUPANCY ROOMS. DO YOU DESIRE OR IS THERE A REQUIREMENT TO PROVIDE ANY SINGLE OCCUPANCY ROOMS?

5. REQUIREMENT (7) REQUIRES DAYROOM(S) BE PROVIDED. A DAYROOM FOR 16 YOUTH WOULD REQUIRE A ROOM OF 560 SF OF FLOOR SPACE. THE LAST ROOM ON THE RIGHT COULD PROVIDE A DAYROOM FOR UP TO 14 YOUTH. ONE OF THE OTHER LARGE CELL ROOMS COULD PROVIDE DAYROOM FOR UP TO 24 YOUTH. THESE ASSUMPTIONS ARE BASED ON UNEMCUMBERED FLOOR SPACE. IF BOLTED DOWN TABLES ARE INCLUDED THE OCCUPANT LOAD WOULD BE REDUCED. CAN REQUIREMENT NO. (7) BE ACCOMODATED OPERATIONALLY? IN OTHER WORDS, IF A DAYROOM IS PROVIDED THAT ACCOMODATES ONLY 18 YOUTH OF 30 YOUTH HOUSED THEN COULD THE REMAINING YOUTH UTILIZE THE SAME ROOM AT A DIFFERENT TIME?

6. REQUIREMENT (24) REQUIRES CLASSIFICATION PLAN ROOMS. COULD YOU CLARIFY HOW MANY ROOMS AND SIZE?

7. CONFIRM THAT THE JUNE 2011 VERSION OF RULES OF TENNESSEE DEPARTMENT OF CHILDREN'S SERVICES LEGAL DIVISION CHAPTER 0250-04-06 MINIMUM STANDARDS FOR JUVENILE DETENTION CENTERS AND TEMPORARY HOLDING RESOURCES IS THE APPROPRIATE VERSION FOR THIS PROJECT.

8. IS A SAFE REQUIRED?
IF SO, WHAT SIZE?
REMOVAL OF EXISTING SAFE WILL/COULD PROVIDE ADMINISTRATIVE SPACE.

IBC REQUIREMENTS

BUILDING'S USE AND OCCUPANCY CLASSIFICATION INSTITUTIONAL GROUP I-3
CONDITION #5

408.3.6 Exit discharge. Exits are permitted to discharge into a fenced or walled courtyard. Enclosed yards or courts shall be of a size to accommodate all occupants, be located not less than 50 feet from the building and have an area of not less than 15 square feet per person.

408.5 Smoke barrier. Occupancies in Group I-3 shall have smoke barriers complying with Sections 408.8 and 709 to divide every story occupied by residents for sleeping into no fewer than two smoke compartments.

408.6.2 Occupancy Condition 5. Each sleeping area in Occupancy Condition 5 shall be separated from adjacent sleeping areas, corridors and common spaces by a smoke-tight partition. Additionally, common spaces shall be separated from the corridor by a smoke-tight partition.

408.6.3 Openings in room face. The aggregate area of openings in a solid sleeping room face in Occupancy Conditions 5 shall not exceed 120 square inches. The aggregate area shall include all openings including door undercuts, food passes and grilles. Openings shall be not more than 36 inches (914 mm) above the floor. In Occupancy Condition 5, the openings shall be closable from the room side.

408.8.4 Smoke-tight doors. Doors in openings in partitions required to be smoke tight by Section 408.8 shall be substantial doors of construction that will resist the passage of smoke. Latches and door closures are not required on cell doors.

408.3 Windowless buildings. For the purposes of this section, a windowless building or portion of a building is one with nonoperable windows, windows not readily breakable or without windows. Windowless buildings shall be provided with an engineered smoke control system to provide a tenable environment for exiting from the smoke compartment in the area of fire origin in accordance with Section 909 for each windowless smoke compartment.

408.11 Automatic sprinkler system. Group I-3 occupancies shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.2.6.

PROGRAM SPACE SUMMARY

ROOM NO.	ROOM NAME	AREA (SF)	COMMENTS
1	CLASSIFICATION PLAN ROOM	100	
2	CONTROL ROOM	100	
3	HEALTH CARE EXAM ROOM	100	
4	MULTI-PURPOSE ROOM	100	
5	PEDESTRIAN SALLY PORT	100	
6	TELEPHONE FACILITY	100	
7A	TEMPORARY HOLDING ROOM	100	
7B	TEMPORARY HOLDING ROOM	100	
7C	TEMPORARY HOLDING ROOM	100	
8	VISITOR ENTRY/WAITING	100	
9	VISITATION ROOM	100	
10	PRIVATE VISITATION ROOM	100	
11	EDUCATIONAL ROOM	100	
12A	MULTIPLE SLEEPING ROOM	100	
13	DAYROOM	100	
14	EMERGENCY POWER GENERATOR	100	
15	KITCHEN	100	FOR REMOTE FACILITY ONLY(FORMER WORKHOUSE)
16	DINING ROOM	100	
17	VISITOR RECEPTION	100	
18	CONFERENCE ROOM	100	
19	ADMINISTATION OFFICES	100	
20	LAUNDRY	100	
21	STAFF RESTROOMS	100	
22	STORAGE ROOM	100	
23	STORAGE ROOM	100	

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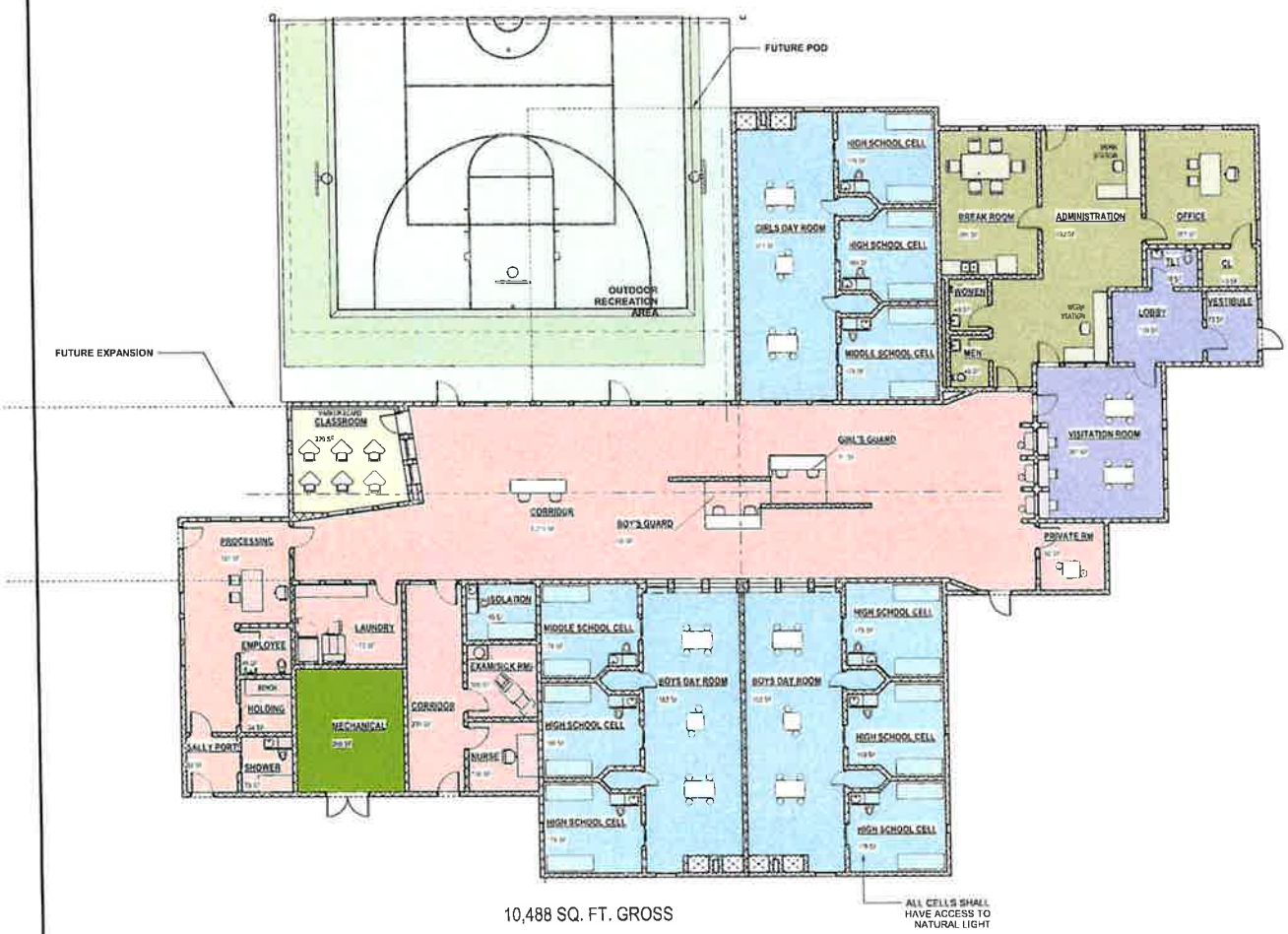
PROGRAMING NOTES

Juvenile Detention Facility
203 Lane Parkway, Shelbyville, Tennessee 37160

REVISIONS

PROJECT NO. 2050
DATE Issue Date
SHEET NO. G1.02



10,488 SQ. FT. GROSS

1 CONCEPTUAL FLOOR PLAN
1/8" = 1'-0"

LEGEND

- VISITORS
- ADMINISTRATION
- BUILDING SUPPORT
- JUVENILE SUPPORT
- JUVENILE EDUCATION
- JUVENILE RECREATION
- JUVENILE DETENTION

SCOPE

PROVIDE FLOOR PLANS, ELEVATIONS, AND ANTICIPATED CONSTRUCTION COSTS. THE DRAWINGS WILL BE USED TO PRESENT THE COMMISSION THE PROPOSED DESIGN AND COST FOR THE PROJECT. FOLLOWING ARE THE ITEMS TO BE INCLUDED IN THE DRAWINGS

- SICK ROOM
- ISOLATION ROOM FOR BEHAVIORAL ISSUES
- TWO(2) CELLS FOR MIDDLE SCHOOL AGED CHILDREN THAT EACH ACCOMMODATES 2 TO 3 STUDENTS
- SIX (6) CELLS FOR HIGHSCHOOL AGED CHILDREN THAT EACH ACCOMODATES 2 TO 3 STUDENTS
- ONE (1) EDUCATION ROOM THAT ACCOMODATES 5 TO 6 STUDENTS
- LAUNDRY FACILITY THAT ACCOMODATES AN INDUSTRIAL WASHER AND DRYER
- ONE (1) KITCHENETTE/BREAKROOM FOR EMPLOYEES
- SERVICE BAY/LOADING DOCK

OTHER SPACE REQUIREMENTS FROM TN STATE DCS STANDARDS

(3) The following minimum provisions shall be made by each facility.

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(7) New Juvenile Detention Centers shall have a dayroom for each cluster of rooms. The dayroom shall offer a minimum of thirty-five (35) square feet of floor space per youth. Existing facilities are not required to provide dayrooms.

(9) Facilities shall have at least one (1) operable shower for every sixteen (16) detained youth, which shall be accessible to youth without having to leave their designated area.

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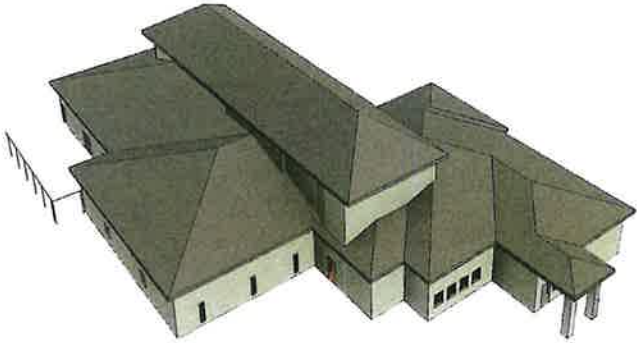
FLOOR PLAN - DIMENSIONED

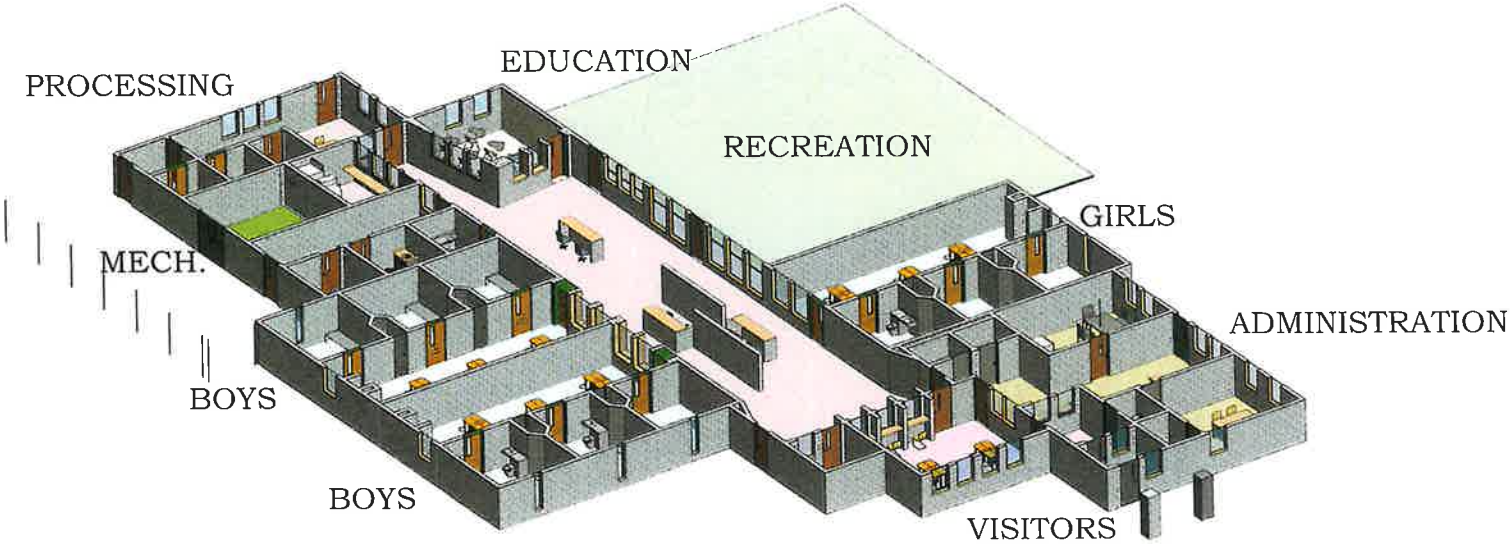
BEDFORD COUNTY JUVENILE DETENTION CENTER
Enter address here
TBD

REVISIONS

PROJECT NO 1950
DATE Issue Date
SHEET NO A1.01d



1 MASSING VIEW



2 CUT PLANE ORTHO VIEW

22 middleton street nashville, tennessee 37210
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MASSSING STUDY

BEDFORD COUNTY JUVENILE DETENTION CENTER
Enter address here
TBD

REVISIONS

PROJECT NO 1950
DATE Issue Date
SHEET NO G1.13

10,443 SF

1 CONCEPTUAL FLOOR PLAN
1/8" = 1'-0"

SCOPE

PROVIDE FLOOR PLANS, ELEVATIONS, AND ANTICIPATED CONSTRUCTION COSTS. THE DRAWINGS WILL BE USED TO PRESENT THE COMMISSION THE PROPOSED DESIGN AND COST FOR THE PROJECT. FOLLOWING ARE THE ITEMS TO BE INCLUDED IN THE DRAWINGS

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FLOOR PLAN - DIMENSIONED

BEDFORD COUNTY JUVENILE DETENTION CENTER
Enter address here
TBD

REVISIONS

PROJECT NO. 1950
DATE Issue Date
SHEET NO. A1.01d

March 1, 2022 Meeting to discuss Juvenile Services

Those in attendance: Julie Sanders, Jeff Sweeney, Charles Rich, Nicole Cashion, Kellee Smith, Robert Daniel, Lori Schuler, Nakia Elliott

Juvenile Detention Center – keeping In Bedford County

- 11 staff, 1 director, 4 sergeants, 6 officers
- Nurse used from jail
- 2 hot meals per day
- Meals- from jail- costs added to juvenile budget- approx. $500/month
- DCS pays 139$ per day
- Rate changes to be considered
- Must transport Bedford County juveniles (only) for court, evaluations, Dr appts
- Cost estimate- $275-$324 per Bedford County Juvenile
- Approximately 200 Bedford County juveniles are taken in per year

1 staff= 16 sleeping, or 8 awake (Staff : juvenile ratio)

Sending Juveniles out of county

- Must have a 72 hour hold location- unsure of minimum square footage?? and must be supervised during this time
- While waiting on bed- must have 1 officer or more depending on male / female
- 6 officers- multiple shifts @ 55K per officer
- Transports required for each court appearance, evaluations, Dr appointments (there is a minimum of 3 transport trips for each juvenile before the actual booking)
- Gas costs
- 1 director
- Costs per child 150-175 per day minimum to send out (Rutherford 175, Putnam 150)
- Will need same amount of staff

Juvenile Detention Center

Historical Data:			
2020-2021 - # of juveniles		163	
2020-2021 - # of bed days		1,436	
2021-2022 - # of juveniles		299	
2021-2022 - # of bed days		2,954	
YTD FY23 - # juveniles		215	
YTD FY23 - # of bed days		2,237	
Assumptions:			
Estimated juveniles		200	
Estimated bed days		1,600	
Estimated cost per day at another facility	$	175	Rutherford County
Estimated number of trips made per juvenile		4	
Estimated mileage per round trip		49	24.6 miles each way
Estimated cost of full-time transport officer	$	64,278	Juvenile Guard base pay: $39,266. Jail Guard base pay: $39,266. Deputy base pay: $50,735
Estimated cost per mile	$	1.00	10.86% matching benefits, $7,056 annual health, Workers Comp $906, Life Insurance-$71

FY23 YTD Actual Cost of Bedford County Juvenile Detention Facility:		
As of March 31, 2023		
FY23 YTD Revenues	$	285,058
FY23 YTD Expenditures		(476,528)
FY23 YTD Expenditures in excess of Revenues	$	(191,470)
Cost per juvenile based on actual revenues/expenditures		
FY23 YTD Expenditures in excess of Revenues	$	(191,470)
FY23 YTD Juveniles		215
Cost per juvenile	**$**	**891**
Cost per bed day based on actual revenues/expenditures		
FY23 YTD Expenditures in excess of Revenues	$	(191,470)
FY23 YTD bed days		2,237
Cost per bed day	**$**	**86**

Projected Cost of Utilizing Another County's Juvenile Detention Facility:			
Cost of Bed Days ($175x1,600)	$	280,000	
Transportation Cost 200 kids, 4 trips each, 49 mi/trip, $1/mile		39,360	
2 Full-time transport officers		128,556	Deputies
Projected Cost	**$**	**447,916**	
Cost per juvenile based on projection			
Projected cost	$	447,916	
Estimated juveniles		200	
Cost per juvenile	**$**	**2,240**	
Cost per bed day based on projection			
Projected cost	$	447,916	
Estimated bed days		1,600	
Cost per bed day	**$**	**280**	

Revenue by Source by Year

FY23 42450	DCS	Coffee County	Franklin County	Grundy County	Lincoln County	Lewis County	Marshall County	Montgomery County	Moore County	Sequatchie County	Sumner County	Warren County	Wilson County	General Sessions	Traffic School
	22,935.00	5,510.00	435.00	660.00	2,376.00		580.00	1,015.00	290.00		3,625.00	725.00	1,305.00		2,765.00
	23,400.03	12,470.00	435.00	870.00	435.00		580.00	1,015.00							4,515.00
	19,573.61	6,235.00	1,160.00	145.00	1,595.00		290.00	725.00							2,835.00
	15,158.51	2,175.00			1,305.00		870.00								3,500.00
	20,750.97	4,350.00			1,740.00										3,990.00
	18,813.25	4,060.00			5,655.00										1,890.00
	25,460.41				290.00										2,135.00
	2,030.00				870.00										3,570.00
	25,166.07														840.00
	19,279.27														1,190.00
															735.00
															735.00
	192,567.12	34,800.00	2,030.00	1,675.00	14,266.00	-	2,320.00	2,755.00	290.00	-	3,625.00	725.00	1,305.00	-	28,700.00

FY22 42450	DCS	Coffee County	Franklin County	Grundy County	Lincoln County	Lewis County	Marshall County	Montgomery County	Moore County	Sequatchie County	Sumner County	Warren County	Wilson County	General Sessions	Traffic School
	397.14	132.00	396.00		396.00			1,848.00			660.00				14,140.00
	18,003.68	9,636.00	660.00		3,432.00		396.00	2,112.00			792.00				665.00
	15,150.98	4,620.00	396.00		1,716.00		528.00	2,772.00							840.00
	18,070.00	3,696.00	792.00		1,452.00		396.00	4,488.00							980.00
	30,163.00	4,620.00			2,640.00			1,056.00							4,340.00
	33,638.00	2,772.00			2,904.00										4,445.00
	13,900.00	660.00			3,960.00										4,165.00
	14,456.00				4,752.00										3,325.00
	8,201.00				3,828.00										
	13,900.00				2,508.00										
	4,031.00				2,244.00										
	25,159.00				924.00										
	28,078.00				1,716.00										
	223,147.80	26,136.00	2,244.00	-	32,472.00	-	1,320.00	12,276.00	-	-	1,452.00	-	-	-	32,900.00

FY21 42450	DCS	Coffee County	Franklin County	Grundy County	Lincoln County	Lewis County	Marshall County	Montgomery County	Moore County	Sequatchie County	Sumner County	Warren County	Wilson County	General Sessions	Traffic School
	14,429.42	1,056.00			1,584.00	264.00	1,320.00	5,544.00						29.92	21,360.00
	11,119.92	528.00			2,904.00		396.00	4,092.00						29.92	
	15,223.70	4,752.00			396.00			3,300.00						24.94	
	11,517.06	5,280.00			264.00			2,376.00							
	10,193.26	4,092.00			1,584.00			4,488.00							
	23,034.12	8,316.00			396.00			660.00							
	13,899.90	3,960.00			1,320.00										
	16,812.26	792.00			2,640.00										
	13,502.76				1,188.00										
	7,413.28														
	12,576.10														
	26,343.62														
	4,884.00														
	180,949.40	28,776.00	-	-	12,276.00	264.00	1,716.00	20,460.00	-	-	-	-	-	84.78	21,360.00

FY20 42450	DCS	Coffee County	Franklin County	Grundy County	Lincoln County	Lewis County	Marshall County	Montgomery County	Moore County	Sequatchie County	Sumner County	Warren County	Wilson County	General Sessions	Traffic School
	7,810.42	396.00			660.00		528.00								28,840.00
	8,869.46	396.00			924.00		528.00								

Juvenile Detention
March 31, 2023

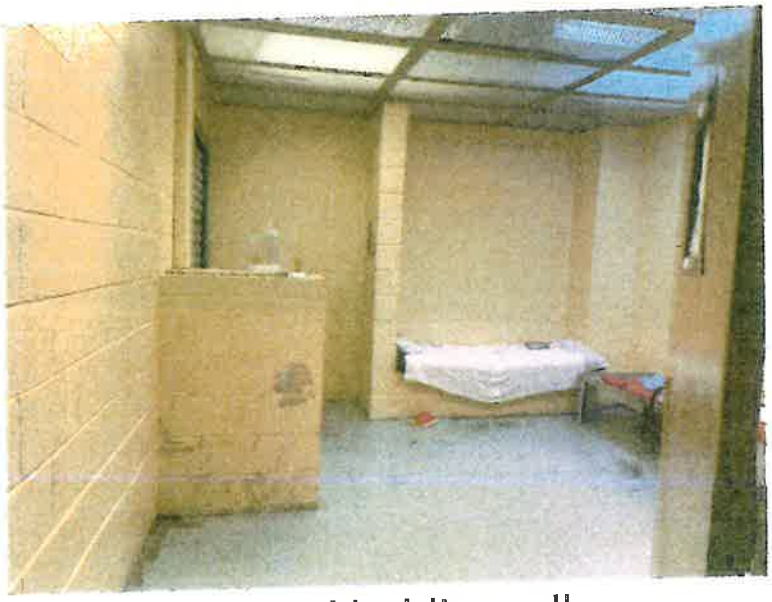
		DCS	Coffee County	Franklin County	Grundy County	Lincoln County	Lewis County	Marshall County	Montgomery County	Moore County	Sequatchie County	Sumner County	Warren County	Wilson County	General Sessions	Traffic School	Receipts by Revenue Code	Total Receipts	Juvenile Detention Expenditures by Year	Expenditures in Excess of Revenues
FY23 YTD	42450	192,567.12	34,800.00	2,030.00	1,675.00	14,266.00	-	2,320.00	2,755.00	290.00	-	3,625.00	725.00	1,305.00	-		256,358.12			
	42450-TS															28,700.00	28,700.00	285,058.12	476,527.84 budget - $697,568	(191,469.72)
FY22	42450	223,147.80	26,136.00	2,244.00	-	32,472.00	-	1,320.00	12,276.00		-	1,452.00			-		299,047.80			
	42450-TS															32,900.00	32,900.00	331,947.80	535,711.86	(203,764.06)
FY21	42450	180,949.40	28,776.00	-	-	12,276.00	264.00	1,716.00	20,460.00		-	-			84.78		244,526.18			
	42450-TS															21,360.00	21,360.00	265,886.18	537,724.82	(271,838.64)
FY20	42450	163,224.54	4,092.00	-	-	17,292.00	-	1,584.00	-		-	-			-		186,192.54			
	42450-TS															28,840.00	28,840.00	215,032.54	524,048.60	(309,016.06)
FY19	42450	133,571.42	3,828.00	-	-	20,724.00	-	3,564.00	-		4,224.00	-			-		165,911.42			
	42450-TS															40,495.00	40,495.00	206,406.42	461,859.19	(255,452.77)
FY18	42450	146,279.90	9,900.00	-	-	39,072.00	132.00	2,640.00	-		-	-			99.75		198,123.65			
	42450-TS															67,955.00	67,955.00	266,078.65	450,751.18	(184,672.53)
FY17	42450	118,081.45	9,372.00	-	-	24,948.00	-	10,956.00	-		-	-			-		163,357.45			
	42450-TS															49,980.00	49,980.00	213,337.45	460,817.40	(247,479.95)
		1,157,821.63	116,904.00	4,274.00	1,675.00	161,050.00	396.00	24,100.00	35,491.00	290.00	4,224.00	5,077.00	725.00	1,305.00	184.53	270,230.00	1,783,747.16	1,783,747.16		

Juvenile Detention Center

April 2023

Building Pictures/Condition/Work Orders

Front office floor



Typical holding cell

Restroom 1

Restroom 2

Shower

Ceiling tile above metals ceiling grate is pretty rough.

Fire Alarm System

The Fire Alarm system needs to be upgraded soon. The current system is out of date and is difficult to find parts for.

The Roof

I don't have a picture of the roof however we believe the roof to be 20 years plus. I believe a new roof for this building would run approximately $150,000-$200,000.

The Plumbing

The overall plumbing in this building is in bad shape; fixtures and drains. We are constantly fighting sewer backups and leaks in the system.

Electrical

Lots of old wiring that will need to be updated in the future.

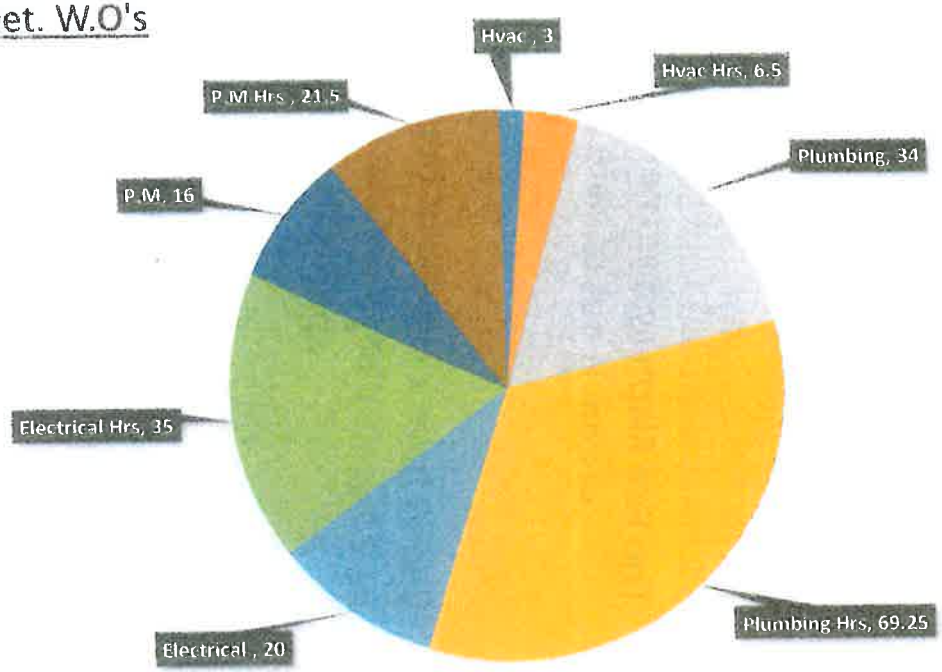
Doors and Hardware

There are a lot of issues with the doors and hardware...some upgrades need to happen for security and functionality.

Work Orders July 2021- March 2023

Group	Hvac	Hrs	Plumbing	Hrs	Electrical	Hrs	P.M	Hrs	Total W.O	Total Hrs
Totals	3	6.5	34	69.25	20	35	16	21.5	73	132.25

Juvenile Det. W.O's



Status	Requested	W.O #	Group	Hours	Location/Description	Completed	Assigned to
					Juvenile Detention - July 2021-April 2023		
Closed	7/6/2021	4	P.M	3 hrs	mow yard - juvenile detention	7/2/2021	others
Closed	7/27/2021	80	Electrical	5 hrs	juvenile detention exit room replace bulb	7/27/2021	Tim/others
Closed	7/13/2021	37	Plumbing	1 hr	juvenile detention check for water leak	7/13/2021	Tim/others
Closed	8/16/2021	177	Plumbing	5 hrs	junvenile det all toilets stopped up	8/17/2021	others
Closed	8/16/2021	180	Hvac	4.5 hrs	juvenile probation unit not working	8/16/2021	Others
Closed	8/20/2021	191	P.M	2 hrs	junvenile det fix broken drain covers	8/24/2021	Rose
Closed	8/20/2021	193	P.M	2 hrs	juvenile dent get hose and pressure washer	8/24/2021	Rose
Closed	8/25/2021	196	Plumbing	3.5 hrs	juvenile detention employee rr toilet overflowing	8/25/2021	others
Closed	9/10/2021	234	Plumbing	3.5 hrs	junvenile detention cell bravo sewage backing up	9/10/2021	Others
Closed	9/13/2021	236	Plumbing	.75 hrs	juvenile detention cell bravo repaired toilet	9/10/2021	Tim/others
Closed	9/16/2021	252	Plumbing	3 hrs	juvenile detention toilet stopped up	9/16/2021	Tim/Others
Closed	9/16/2021	253	Plumbing	4 hrs	juvenile detention toilet keeps running	9/16/2021	Tim/others
Closed	9/17/2021	258	Plumbing	6 hrs	juvenile det. A pod sink stopped up	9/17/2021	Tim/Others
Closed	9/17/2021	259	Plumbing	4 hrs	juvenile det. A pod sink wont stop running	9/17/2021	Tim/others
Closed	9/17/2021	260	Plumbing	0 hrs	juvenile det. A toilet won't flush	9/17/2021	Tim/others
Closed	9/17/2021	261	Plumbing	0 hrs	Juvenile det. B pod toilet not flushing	9/17/2021	Tim/others
Closed	9/17/2021	262	Plumbing	4 hrs	sewage backing up	9/17/2021	Tim/others
Closed	9/27/2021	286	Plumbing	5.5 hrs	juvenile det. Bravo toilet not flushing	9/28/2021	tim/darrell/j.w
Closed	10/15/2021	341	Electrical	3 hrs	back of juvenile det. Run power to network cage	10/15/2021	Rose/others
Closed	10/26/2021	361	Plumbing	1 hr	junvenile det shower pipe leaking	10/26/2021	Rose/Tim
Closed	10/27/2021	368	P.M	2 hrs	juvenile det. Help with sallyport door	10/28/2021	Rose
Closed	12/8/2021	458	Plumbing	1.5 hrs	juvenile detention issues with toilet in one of the cells	12/9/2021	Rose/Tim/Jason
Closed	12/9/2021	463	Electrical	1 hr	juvenile detention changed lights	12/9/2021	Tim/rose/Jason
Closed	12/8/2021	458	Plumbing	1.5 hrs	juvenile detention issues with toilet in one of the cells	12/9/2021	Rose/Tim/Jason
Closed	12/9/2021	463	Electrical	1 hr	juvenile detention changed lights	12/9/2021	Tim/rose/Jason
Closed	3/4/2022	635	Plumbing	1 hr	juvenile det. Starter button not working	4/4/2022	Tim L
Closed	5/20/2022	827	Plumbing	1 hr	juvenile detention booking/shower area toilet leaking	5/24/2022	Tim L
Closed	7/15/2022	26	Electrical	1 hr	juvenile detention - dryer keeps tripping the breaker	7/15/2022	Tim L
Closed	8/9/2022	75	P.M	.5 hrs	flag pole - need someone to look at it (juvenile detention)	8/10/2022	Tim L
Closed	8/18/2022	85	Plumbing	.5 hrs	juvenile detention - sink in one of the cells is not draining	9/1/2022	Tim L
Closed	9/7/2022	108	P.M	1 hr	juvenile det-dryer not working again	9/8/2022	Tim/Evan
Closed	9/7/2022	113	P.M	1 hr	juvenile det- cell b having issues with the door and button	9/8/2022	Tim/Evan
Closed	7/15/2022	26	Electrical	1 hr	juvenile detention - dryer keeps tripping the breaker	7/15/2022	Tim L
Closed	8/9/2022	75	P.M	.5 hrs	flag pole - need someone to look at it (juvenile detention)	8/10/2022	Tim L
Closed	8/18/2022	85	Plumbing	5 hrs	juvenile detention - sink in one of the cells is not draining	9/1/2022	Tim L
Closed	9/7/2022	108	P.M	1 hr	juvenile det-dryer not working again	9/8/2022	Tim/Evan
Closed	9/7/2022	113	P.M	1 hr	juvenile det- cell b having issues with the door and button	9/8/2022	Tim/Evan
Closed	10/10/2022	150	Electrical	3 hrs	Juvenile Detention - no power	10/8/2022	Tim L
Closed	10/10/2022	153	Electrical	.5 hrs	Juvenile Detention- fire alarm system batteries need to be replaced	10/10/2022	Tim/Evan
Closed	10/11/2022	155	P.M	1 hr	Juvenile Detention - key pad lock went out	10/14/2022	Tim/Evan
Closed	10/17/2022	159	Plumbing	2 hrs	one of the cells - need sink check out sounds like water running in wall	10/18/2022	Tim/Evan
Closed	10/18/2022	222	P.M	2 hrs	Juvenile Det- laundry room dryer	10/18/2022	Tim/Evan
Closed	10/18/2022	224	Electrical	1 hr	Juvenile det- fix light	10/31/2022	Tim/Evan
Closed	11/1/2021	193	Electrical	2 hrs	juvenile det.- having issues with breaker dryer	11/3/2022	Tim/Evan
Closed	11/3/2022	195	Electrical	3 hrs	Juvenile Det- no power	11/22/2022	Tim/Evan
Closed	11/17/2022	293	Electrical	1 hr	juvenile detention - kellee's office overhead light is out	11/27/2022	Tim/Evan
Closed	11/29/2022	319	Electrical	2.5 hrs	Juvenile det- lot of lights out	12/2/2022	Tim/Evan
Closed	12/1/2022	327	Electrical	2 hrs	fire alarm box is dead- not working (Juvenile Detention)	12/2/2022	Tim/Evan
Closed	12/2/2022	342	Electrical	1.5 hrs	juvenile det.- tower elecrtical issues	12/7/2022	Tim/Evan
Closed	12/6/2022	349	Electrical	1.5 hrs	juvenile det- dryer tripped breaker	1/11/2023	Tim/Evan
Closed	12/21/2022	390	Plumbing	2 hrs	water heater not staying warm for 8 showers - juvenile detention	1/7/2022	Rose
Closed	1/4/2022	502	Plumbing	.5 hrs	plumbing issues - juvenile detention	2/15/2023	Tim/Evan
Closed	2/15/2023	507	P.M	1 hr	front gate door hanging to low dragging against the concrete - Justice ce	2/21/2023	Tim/Evan
Closed	2/17/2023	512	P.M	1 hr	need a lock put on that takes a key - juvenile detention	2/27/2023	Tim/Evan
Closed	2/23/2023	529	Plumbing	2 hrs	sink stopped up - juvenile detention	2/23/2022	Tim/Evan
Closed	2/23/2022	612	Plumbing	2 hrs	see kellee- washing machine not working	3/1/2022	Rose
Closed	2/28/2022	621	Plumbing	1.5 hrs	juvenile det - washer not working	4/4/2022	Tim L
Closed	3/1/2022	627	Electrical	2 hrs	old sheiff's office leak tripping juveniles fire alarm	3/9/2023	Tim/Evan
Closed	3/2/2023	539	Plumbing	1 hr	fixed one faucet - juvenile det	3/9/2023	Tim/Evan
Closed	3/2/2023	540	Plumbing	1 hr	E-B fixed faucets - juvenile det	3/9/2023	Tim/Evan
Closed	3/2/2023	541	Plumbing	1 hr	employee rr fixed faucet - juvenile det	3/9/2023	Tim/Evan
Closed	3/2/2023	542	Plumbing	1hr	employee rr fixed toilet - juvenile det	4/3/2023	Tim/Evan
Closed	3/2/2023	543	Hvac	1 hr	fixed a/c unit - juvenile det	3/2/2023	Tim/Evan
Closed	3/2/2023	554	Hvac	1 hr	air not working again- juvenile det	3/10/2023	Tim/Evan
Closed	3/10/2023	576	Plumbing	1.5 hrs	hot water heater leaking - juvenile det	3/13/2023	Tim/Evan
Closed	3/13/2023	582	Plumbing	2.5 hrs	3 toilets, 2 leaking flush buttons -Juvenile det	3/21/2023	Tim/Evan
Closed	3/17/2023	599	Electrical	1 hr	help install new TV for the day room - Juvenile Det	3/21/2023	Tim/Evan
Closed	3/21/2023	601	P.M	1.5 hrs	dryer not working - juvenile det	3/21/2023	Tim/Evan
Closed	3/22/2023	605	Electrical	1 hr	install outlet for tv - juvenile det	3/22/2023	Tim/Evan
Closed	3/22/2023	609	Electrical	1 hr	power to the cable box keeps shutting off - juvenile det.	3/23/2023	Tim/Evan
Closed	3/23/2023	611	Plumbing	1 hr	toilet is not flushing in one of the cells - juvenile det	3/28/2023	Evan M
Closed	3/24/2023	618	Plumbing	3 hrs	hot water heater leaking - juvenile det	4/3/2023	Tim/Evan
Closed	4/3/2023	630	P.M	1 hr	dryer having issues - juvenile det		