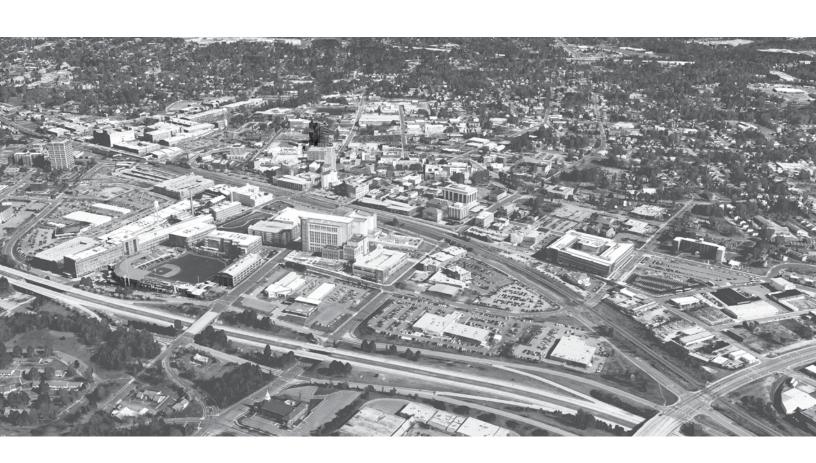
Durham County Youth Home **Program Study**





CONTENTS

Executive Summary	3
Program Structure	4
Program	5
Organizational Diagram	8
Site Information	10
Durham City/County Planning Considerations	11
Conceptual Site Plan	14
Conceptual Cost Estimate	16

INTRODUCTION

EXECUTIVE SUMMARY

O'Brien Atkins Associates worked with Durham County Youth Home and Engineering and Environmental Services staff to determine the future needs of the Durham County Youth Home facility. This study includes a complete Space Program that outlines the operational needs and follows the standards provided by the North Carolina Administrative Code 10A NCAC 14J, Rules and Laws Governing the Operations, Surveillance, and Monitoring of Jail Facilities; and the American Correctional Association Standards for Juvenile Detention Facilities. The future space needs total 32,521 gross square feet.

The existing Youth Home has been located on the 2500 Broad Street site since 1983 and the County's goal is to continue using the same site. In the current Durham City/County UDO, the Youth Home is considered a Congregate Living Facility and permitted within the Office/Institutional (OI) zoning district. Future improvements and new construction with the same use designation are permitted on the existing site.

This document includes a Conceptual Site Plan that demonstrates how the Space Program could lay out on the existing site. The plan follows design criteria established by the Durham UDO.

A Conceptual Cost Estimate provided by Bree and Associates determined a unit cost range of \$268 - \$370 per square foot for a new Youth Home facility. The total probable cost estimate in February 2018 is \$13,186,141.

PROGRAM STRUCTURE

DEFINITIONS

Count Number of spaces required

Capacity Number of people per space

Assignable Area Area per person as determined by function or established standards

Area per Space Net area per space (Capacity x Assignable Area)

Net Area Usable space (Count x Area per Space)

Space Gross Factor added to Net Areas for circulation, walls, and building structure

Building Gross Factor added to Area Totals for building circulation, walls, and building structure

Area Total Calculated space for each program component (Net Area x Space Gross)

METHODOLOGY

A kick-off meeting for the Youth Home Program and Site Master Plan was held in August 2017 with the O'Brien Atkins (OBA) team, Durham County Engineering and Environmental Services, Youth Home representatives, General Services, and the County Manager's office. This meeting established the goals and objectives for Durham County, and the process the design team would use to gather information and data.

OBA created a program survey asking for the department's purpose, staff information, program operations, group meeting space needs, and any items unique to Durham County. Space guidelines for student housing, detention, medical services, food services, security, and facility operations follow North Carolina Administrative Code 10A NCAC 14J, Rules and Laws Governing the Operations, Surveillance, and Monitoring of Jail Facilities; and the American Correctional Association Standards for Juvenile Detention Facilities. Youth Home staff also provided an organization chart.

OBA developed a draft program based on the above information. Each space was discussed and vetted with DCYH, and Engineering staff, and revisions were made further incorporating their operational guidelines. The design team also toured the existing facility to understand how DCYH currently utilizes its space. These discussions provided more insight into how the County intends for the facility to function. A final draft was given to Durham County representatives for verification and confirmation of the program.

PROGRAM

	Count	Capacity	Assignable Area	Area per Space	Net Area	
Juvenile Housing						
Male Rooms	16	1	70	70	1,120	1 handicap accessible
Toilets	2	1	15	15	30	1 per 12 male juveniles, minimum of 2
Wash Basins	2	1	12	12	24	1 per 12 juveniles
Showers	2	1	24	24	48	1 per 8 juveniles
Famala Baama		4	70	70	ECO	
Female Rooms	8	1	70	70	560	1 handicap accessible
Toilet	2	1	15 12	15	30	1 per 8 female juveniles, minimum of 2
Wash Basins	1	1 1	12	12 24	12 24	1 per 12 juveniles
Showers	1 1		24 100	800	800	1 per 8 juveniles
Female Dayroom	Į.	8	100	000	000	35 SF per juvenile minimum, includes dining
Special Needs Housing	2	1	70	70	140	Separate from general population
Segregation Room	2	1	50	50	100	Padded room, suicide watch
	_	•				,
Primary Dayroom	1	24	100	2400	2,400	35 SF per juvenile minimum, includes dining
Staff Station	1	1	64	64	64	Inside dayroom
Janitor Closet	1	1	50	50	50	Emergency eyewash
Staff Toilets	1	1	64	64	64	
			•		5,466	
			Spa	ce Gross	30%	
Total					7,106	
	I					
	0	0	Assignable	Area per	Usable Net	
Security	Count	Capacity	Area	Space	Area	
Cocurity						
Control Room	1	3	100	300	300	
Staff Toilet	1	1	64	64	64	
Electronic Security Equipment	1	1	100	100	100	
Intake	1	1	400	400	400	
Juvenile Property Storage	1	1	200	200	200	
Toilet/ Shower/ Changing	1	1	96	96	96	
Sally ports	10	1	28	28	280	Throughout facility
			,		4 4 4 4 4 4	
			Cna	C	1,440	
Total			Spa	ce Gross	30% 1,872	
lotai					1,072	
	i					
			Assignable	Area per	Usable Net	
	Count	Capacity	Area	Space	Area	
Medical						
Evamina Room	4	4	120	120	120	
Examine Room	1	1	120	120	120	
Doctor Office	1	1	120	120	120	Includes weiting area
Nurse Station Toilet/ Shower	1 1	2 1	100	200	200	Includes waiting area
	1 1		96 50	96 50	96 50	Defriverenter
Secure Storage		1	50	50	50	Refrigerator
			,		586	+
			Sna	ce Gross	30%	
Total			Ope	.00 01035	762	
- I Otal						

PROGRAM

	Count	Capacity	Assignable Area	Area per Space	Usable Net Area	
Program and Service Areas						
Student Activity Indoor Activity Area Outdoor Activity Area Equipment Storage	1 1	24 1	100 100	2400 100	2,400 100	100 SF per juvenile See outdoor area
Student Toilet	2	1	64	64	128	Male, Female
Visitation Contact Visiting / Interview Visitor Storage	4 1	3 1	25 50	75 50	300 50	Confirm numbers Locker alcove for visitor items, adjacent to waiting
Student Spaces Classroom Large Classroom Small Table and Chair Storage Classroom Supplies Teacher (Full-time)	0 3 1 1	24 12 1 1 3	28 33 297 50 100	672 396 297 50 300	0 1,188 297 50 300	with operable partition with computer stations against the wall 25% of classroom space In student area, shared office
Food Service Kitchen Dry Storage Cold Storage Storage Toilet Kitchen Office Janitor Closet	1 1 2 2 1 1 1	1 1 1 1 1	500 150 100 100 64 80 75	500 150 100 100 64 80 75	500 150 200 200 64 80 75	Refrigerator, Freezer With washer and dryer
Service Clothing/ Lining Storage/ Hygiene Laundry Room Soiled Linens	1 1 1	1 1 1	120 250 35	120 250 35	150 250 35	50lb capacity commercial washer and dryer
Building Service Janitor Closets Building Maintenance Storage	2 1	1 1	50 100	50 100	100 100	One per program area
Water Heater Telecom Room Main Electrical Room IT Closet Server Room Receiving	1 1 1 1 1	1 1 1 1 1	60 80 200 80 120 250	60 80 200 80 120 250	60 80 200 80 120 250	With loading dock
Total			Spa	ce Gross	7,507 30% 9,759	

PROGRAM

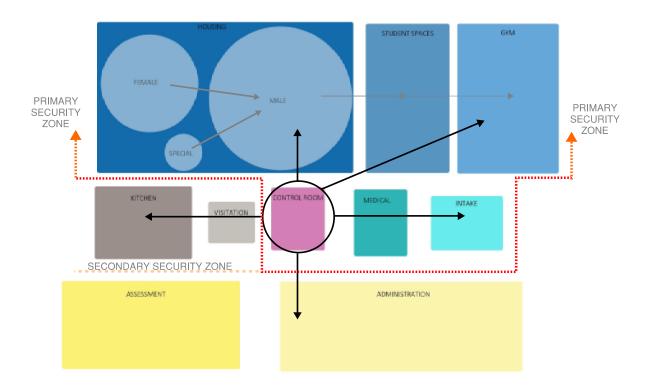
Administration and Staff	Count	Capacity	Assignable Area	Area per Space	Usable Net Area	Notes
Regular Schedule Staff Director Staff (Full-time) Administration Assistant	1 3 1	1 1 1	250 120 120	250 120 120	250 360 120	Receptionist
Future Staff Space Shift Schedule Staff Manager Supervisor Detention Counselors Staff (Part-time) Subtotal	1 1 1 8 7 23	1 2 2 0 0	120 100 100 0	200 200 0 0	200 200 0 0	Shared Office Shared Office No Space Assignment No Space Assignment
Conference Room Staff Lounge Workroom Storage Public Toilet Main Entrance Waiting Area Staff Locker Room/ Showers	1 1 1 2 2 1 2	8 6 1 1 1 1 6	33 50 150 150 64 300 25	264 300 150 150 64 300 150	264 300 150 300 128 300 300	Records, Office Supply Main and Visitor combined
Staff Entrance Total	1	1	150 - Spa	150 ce Gross	3,742 30% 4,865	
	Count	Capacity	Assignable Area	Area per Space	Usable Net Area	Notes
Assessment Center						
Staff (Full-time) Administration Assistant	4 1	1 1	120 120	120 120	480 120	
Large Conference Room Small Conference Room Workroom Storage Public Toilet Assessment Entrance Waiting Area Assessment Break Area	1 2 1 1 2 1 1 1	8 4 1 1 1 1 6 1	33 33 150 100 64 300 25 150	264 132 150 100 64 300 150	264 264 150 100 128 300 150	
T-1-1			Spa	ce Gross	2,106 30%	
Total					2,738	
Summary					Gross Area	
Juvenile Housing Security Medical Program and Service Areas Administration and Staff Assessment Center					7,106 1,872 762 9,759 4,865 2,738	
Building Total			Buildi	ng Gross	27,101 20% 32,521	

ORGANIZATIONAL DIAGRAM

The desired organization for the Youth Home facility is divided into two zones, a secure zone and non-secure zone.

The non-secure zone includes Administrative/ Staff Areas and the Assessment Center. Both of these areas consist of offices and the associated workspace for Youth Center staff. Each area would have separate entrances as they serve different functions, but will interact internally. The Assessment Center may operate outside normal business hours.

All access to the secure zone is through the controlled sallyports. Program elements in this zone include Juvenile Housing, Medical, Program, and Service Areas. The day to day activities of the juveniles occur in this area. Male and female juveniles are separated in the housing area, but are allowed to interact in the other activity areas.



SITE INFORMATION

The Durham County Youth Home is located at 2500 Broad Street on two parcels of land. Parcel 128478 is 4.65 acres and Parcel 128491 is 3.40 acres, totaling 8.1 acres. The Youth Home shares the site with the Durham County Fire Marshal's and Emergency Management Office. Durham City/County records indicate the site is zoned Office/Institutional (OI) and within the Urban Development Tier. The use category is Residential, Group Living, Congregate Living Facility per UDO Section 5.2.3B.

In Zone OI, Congregate Living Facilities are permitted subject to limitations (L). The limitations are described in Section 5.3.2B. Item 2 references limitations to the allowed density of the site. Section 6.10.2.B establishes the residential density of the district at 14 people/acre and that is applied to the 4.65 acres of Parcel 128478.

Density Calculations:

4.65 acres x 14 residents/acre = 65 residents
65 residents x 1 1/2 allowed increase = 97 residents
Program Total = 24 residents < allowed base density of site

Provided all conditions of Sections 5.3.2B are met, no Special Use Permit is required.



DURHAM CITY/COUNTY PLANNING CONSIDERATIONS

UDO SECTION 5.1 - USE TABLE

				RESI	DENTIAL					N	ONRE	SIDEN	ITIAL				P	LANNE	:D		DESIG	N	
USE CATEGORY	SPECIFIC USE	RR	RS	RS-M	RU	RU-M	RC	5	3	ō	ខ	SRP	SRP-C ³	=		PDR	OC	8	Ы	М	8	8	NOTES:
AGRICULTURA	L USES (City Only) All agriculture, except as		1									Т	Т	T			T		1	T		1	
	listed below	L	L																				5.3.1A
Agriculture	Apiculture	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	
Agriculture	Commercial crop production	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	5.3.1A
	Forestry	L	L	L	L	L	L	L	L	L	L	L		L	L	L	L	L	L	L		L	5.3.1B
RESIDENTIAL U	ISES																						
	Single-family	L	L	L	L	L	L		L							‡				‡	L	L	6.2.1, 6.3.2, 6.4.2, 6.5.2, 6.10.2, 6.11.3, 6.11.7, 6.12, 7.1.2, 7.1.3, 7.1.4, 7.1.5, 7.1.6
	Two-family			L	L	L	L									‡				‡	L	L	6.3.2, 6.4.2, 6.5.2, 6.12, 7.1.7
Household Living	Multifamily			L	L	L	L	L	L	L	L		L			‡		‡L		‡	L	L	6.3.2, 6.4.2, 6.5.2, 6.10.2, 6.11.3, 6.11.5, 6.11.7, 6.12, 7.1.8, 7.1.9, 7.1.10
	Family care home	L	L	L	L	L	L,		L		L					L‡				L‡		L	5.3.2C, 6.2.1, 6.3.2, 6.4.2, 6.5.2, 6.9.1, 6.10.2, 6.11.3, 6.11.7, 7.1.2
	Manufactured Home	L																					5.3.2D
Household Living	Manufactured home park or subdivision															‡L							5.3.2E
Ū	Upper story residential							L	L	L	L		L			‡		‡L		‡	L	L	6.10.2, 6.11.3, 6.11.5, 6.11.7, 6.12
Group Living	All group living, except as listed below			m	m	m	m	m	m	J	m					‡m				‡m	m		
	Commercial dorm			L/m		L/m	L/m	L / m	L/m		L/m						‡L				L	L/m	5.3.2A
	Congregate living facility			L/m	L/m	L/m	L/m	L	L	Œ	L					‡L/ m				‡L/ m	L	L	5.3.2B
	Group home		L/m	L/m	L/m	L/m	L/m	L	L	L	L					‡L/ m				‡L/ m	L	L	5.3.2C
	Independent Living Facility			m	m	m	m	Р	Р	Р	Р					‡m				‡	Р	Р	

UDO SECTION 5.3.2B - CONGREGATE LIVING FACILITIES

B. Congregate Living Facility

Congregate living facilities shall be permitted in accordance with the use table in Sec. 5.1, Use Table, subject to the following:

- 1. Residential suites or assisted living units without cooking facilities shall be permitted to be constructed at the same density as the base density for dwelling units with each room or suite considered a dwelling unit.
- 2. Facilities with the following on-site common use facilities: dining, recreation, health care, a convalescent center, and multifamily units; shall not exceed 1½ times the allowed multifamily base density of the district, with each unit counted separately, except in the DD District where there is no limit on the multifamily base density.
- **3.** Facilities with the following on-site common use facilities: dining, recreation, health care, and a convalescent center; shall not exceed two times the allowed base density for the district, with each room or suite considered a dwelling unit, except in the DD District where there is no limit on the multifamily base density.
- **4.** Density limits indicated above may be exceeded with approval of a minor special use permit pursuant to Sec. 3.9, Special Use Permit.

DURHAM CITY/COUNTY PLANNING CONSIDERATIONS

UDO SECTION 6.10.2.B - RESIDENTIAL DENSITY FORMULAS

B. Residential Density

1. The residential density shall be based only on that portion of the tract dedicated to the residential use and the maximum residential density (shown as units per acre) allowed shall be as shown in the table below:

District	Rural	Suburban	Urban	Compact
CI			14 ^{1,2}	14 ^{1,2}
CN	0.2	8 ^{1,3}	11 ^{1,2}	14 ^{1,2}
OI		11 ^{1,3}	14 ^{1,2}	18 ^{1,2}
CG	0.2	11 ^{1,3}	14 ^{1,2}	18 ^{1,2}
(County Only) SRP-C		20 ⁴		

¹ Density can be increased through use of the Sec. 6.6, Affordable Housing Bonus.

UDO SECTION 6.10.1.C.1 - DESIGN STANDARDS

2. Standards for the CN, OI, and CG Districts

	(CN	0		CG	ì
Dimensional Standard	Min.	Max.	Min.	Max.	Min.	Max.
Site Area (square feet)	5,000		20,000		20,000	
Project Floor Area (square feet)		20,000				
Lot Width (feet)	50		50		100	
Street Yard ¹						
From ROW (feet)		15		15		15
Side Yard (feet)	10		10		15	
Rear Yard (feet)	25		25		25	
Building Coverage (%) ²		60		60		60
Height (feet)		35		90		50

¹Street yard may be modified using the provisions of paragraph 6.10.1E, Street Yard Variations.

- Structure(s) shall be oriented such that at least one of the following standards is met:
 - (1) The longest building facade is parallel to and within the maximum street yard; or
 - (2) The street-facing building facade occupies at least 60% of the total street frontage for the development.
- **b.** Rear yards can be reduced by up to 50% if adjacent to a railroad right-of-way.
- c. Additional height in the OI and CG Districts, up o 145 feet, is allowed if approved through the issuance of a minor special use permit pursuant to Sec. 3.9, Special Use Permit.
- d. A development within the CN District with new project floor area over 5,000 square feet, no development plan, and residential zoning districts adjacent (including directly across a public right-of-way) to two or more property lines requires a Minor Special Use Permit pursuant to Sec. 3.9, Special Use Permit. The applicant shall hold a neighborhood meeting pursuant to paragraph 3.2.3, Neighborhood Meeting, unless it previously held one for the development at issue.

² Density can be increased through use of the options available under paragraph 6.4.3, Residential Density.

³ For multifamily development, density can be increased through use of paragraph 6.3.3B, RS-M District Major Roadway Density Bonus.

⁴ Density in the SRP-C District can be calculated based upon the gross area of the contiguous district, including areas typically precluded from consideration for density in Article 8, Environmental Protection.

²Building coverage may be further restricted by the impervious surface requirements of paragraph 8.7.2B, Impervious Surface Limits.

DURHAM CITY/COUNTY PLANNING CONSIDERATIONS

UDO SECTION 6.10.1E - STREET YARDS

E. Street Yard Alternatives

A new structure or modifications to an existing structure shall not be required to conform to the street yard requirements of the district in the following circumstances:

- 1. Where 50% or more of the lots on the same linear block as the lot in question are developed with less than the required street yard, the average setback of the buildings on the developed lots on the block with less than the required street yard shall be observed as the minimum setback for a new structure;
- 2. Where the lot on which the new structure is proposed is between two adjacent existing developed lots with less than the required street yard, the average setback of the buildings of both adjacent lots shall be observed as the minimum street yard;
- 3. Where a linear block of less than 500 feet is split into more than one zoning district, the zoning district with the most frontage shall determine the minimum street yard setback. However, this provision shall not apply if the street right-of-way is less than 50 feet wide and property on the opposite side of the street is residentially used or zoned, in which case the provisions of paragraph 6.8.3A, Street Yards, shall be applied;
- **4.** In the Urban and Compact Neighborhood tiers, excluding Design Districts, the applicable street yard of a multiple-frontage lot shall be applied to the frontage with the predominant orientation of existing structures along the blockface. The other frontage shall be considered a side or rear as applicable; or
- **5.** In the Urban and Compact Neighborhood iers, except within CD districts, the maximum street yard shall be considered a minimum street yard for the following primary uses:
 - a. Fuel sales.
 - **b.** Vehicle sales.

CONCEPTUAL SITE PLAN

The Conceptual Site Plan represents a potential site layout for the Youth Home program on the Broad Street site and demonstrates the site has the capacity to support the program elements. It also demonstrates compliance with the UDO Design Standards outlined in the previous section.

The majority of the facility faces Broad Street to provide a street presence and simultaneously screens the housing and outdoor activity areas as required by State statute for detention facilities. Parking shown is to the side and rear of the site. The intent with parking is to separate staff, visitors, and the juvenile intake areas from one another.

This conceptual plan also demonstrates how the site can accommodate a new facility while leaving the existing Youth Home and Fire Marshal's buildings in place. Further exploration into the needs of the Youth Home and Durham County's Long Range Master Plan may determine one or both facilities are not necessary and can be removed from the site.

If a scenario is pursued that replaces the existing Youth Home, the design and layout of the new Youth Home facility must also consider phasing the new construction so the existing facility remains fully operational. Once the new facility is complete, the existing structure can be demolished.

CONCEPTUAL SITE PLAN



CONCEPTUAL COST ESTIMATE



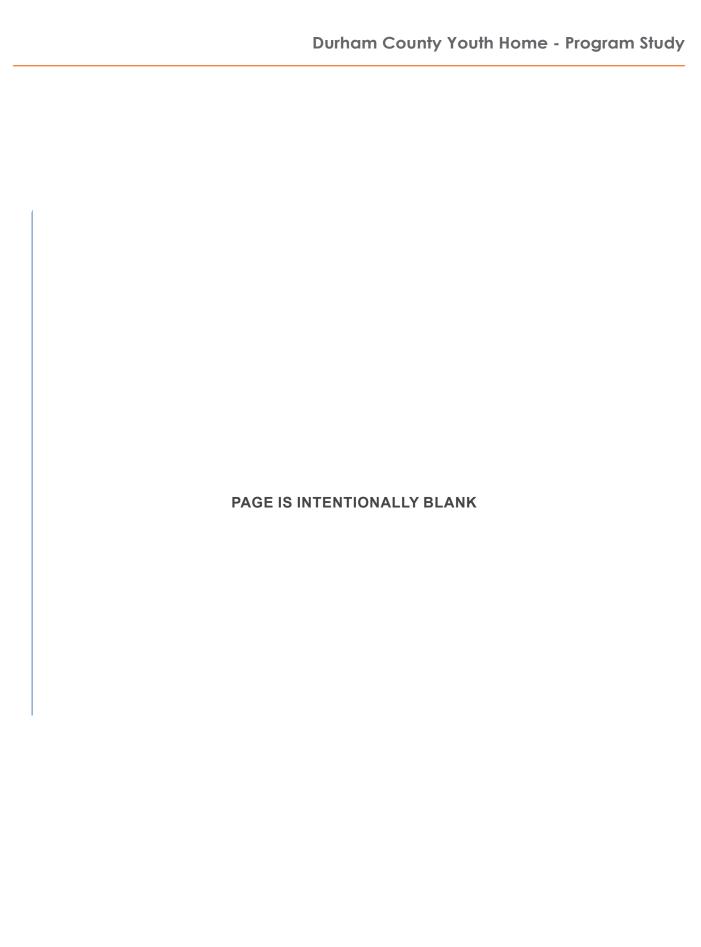
Summary of Estimated Cost

Project: Durham County Youth Home

Brief Project Description: New 32,521 SF Facility

Stage of Estimate: Building Program

Column1	Column2	Colu	ımn3	Colun	nn4
Div.	Description		Average		High
General Requi	rements Subgroup	\$			
BUILDING		\$	5,902,562	\$	7,837,562
	Building	\$	5,073,276	\$	6,422,898
	Equipment	\$	829,286	\$	1,414,664
Mechanical an	d Electrical	\$	2,813,068	\$	4,195,210
	Plumbing	\$	926,849	\$	1,219,538
	Heating Ventilation and Air Conditioning	\$	861,807	\$	1,674,832
	Electrical	\$	1,024,412	\$	1,300,840
Site Improvem	nents and Utilities	\$	1,153,369	\$	1,153,369
	Sitework	\$	1,153,369	\$	1,153,369
Total Construc	tion Costs (October 2017 \$s)	\$	9,868,999	\$	13,186,141



Update: 3/07/2018



OPINION OF PROBABLE COST - SCHEMATIC DOCUMENTS Project: Durham County Youth Home

		Location	Quantity	Unit	Net usable	Unit	Room Net to Gross Add	Gross	Unit	В	uilding Gross
JV H	ousing										
	Rooms	(Male)	16	EA	1120	SF	130%	1,456			
	Rooms	(Female)	8	EA	560	SF	130%	728			
								-			
	Day Ro	oms						-			
	Female		1	EA	800	SF	130%	1,040			
	Primary	1	1	EA	2400	SF	130%	3,120			
								-			
	Special	Needs	2	EA	140	SF	130%	182			
	Segreg	ation Room	2	EA	100	SF	130%	130			
								-			
	Staff sta	ation	1	EA	64	SF	130%	83			
	Janitor	Closet	1	EA	50	SF	130%	65			
								-			
	Restroc	oms						-			
	Male		1	EA	102	SF	130%	133			
		Fixtrues						-			
		WC	2	EA				-			
		Lav	2	EA				-			
		Showers	2	EA				-			
	Female				66	SF	130%	86			
		WC	2	EA				-			
		Lav	1	EA				-			
		Showers	1	EA				-			
	Staff		1	EA	64	SF	130%	83			
					5466	SF		7,106	SF	120%	8,527

Cost Estimate Page 3 of 9



CONCEPTUAL COST ESTIMATE

	Location	Quantity	Unit	Net usable	Unit	Room Net to Gross Add	Gross	Unit	Bui	lding Gross
Security								Ī		
Contral r	oom	1		300	SF	130%	390	Ī		
	c equipment	1		100	SF	130%	130	Ī		
e	equipment	1	EA				-	Ī		
Intake		1		400	SF	130%	520	Ī		
JV prope	erty Storage	1		200	SF	130%	260	Ī		
Sally Por	ts	10		280	SF	130%	364	Ī		
							=			
Restroon	ns						-			
8	Staff	1		64	SF	130%	83	Ī		
	Changing	1		96	SF	130%	125	Ī		
Т	Toilet						-	Ī		
5	Shower						-	Ĩ		
				1440			1,872	SF	120%	2,246
Medical						1		ī		
Examine	1	1	EA	120	SF	130%	156	ł		
Dr Office		1	EA	120	SF	130%	156	ł		
Nurse St		1	EA	200	SF	130%	260	ł		
Secure S		1	EA	50	SF	130%	65	ł		
Occure C	norage	1	LA	30	Oi	130 70	-	ŀ		
Rest Roo	om	1	EA	96	SF	130%	125	t		
	Foilet				<u> </u>	10070	-	Ì		
	Shower						_	Ì		
				586	SF		762	SF	120%	914
		Ī				ı	T	T		
Service Area										
Student Activi										
	ctivity Area	1	EA	2400	SF	130%	3,120			
Equipme	ent Storage	1	EA	100	SF	130%	130			
Visitation						130%	-	ł		
	Visiting / interview	4	EA	300	SF	130%	390	İ		
visitor sto		1	EA	50	SF	130%	65]		
						1000/	T			
student space				1100	0.5	130%	- 4 544	1		
classrooi		3	EA	1188	SF	130%	1,544	.		
	d stair storage	1	EA	297	SF	130%	386	1		
	m supplies	1	EA	50	SF	130%	65	1		
teacher (tuli time)	1	EA	300	SF	130%	390	1		

Cost Estimate Page 4 of 9

	Location	Quantity	Unit	Net usable	Unit	Room Net to Gross Add	Gross
ood Service						130%	-
Kitchen		1	EA	500	SF	130%	650
Drystorage		1	EA	150	SF	130%	195
Cold Storage	1	2	EA	200	SF	130%	260
Storage		2	EA	200	SF	130%	260
kitchen office	kitchen office		EA	80	SF	130%	104
Janitor Close	t	1	EA	75	SF	130%	98
ervice						130%	_
Clothing/Linir	ng Storage/Hygiene	1	EA	150	SF	130%	195
laundry room	1	EA	250	SF	130%	325	
soiled linens	1	EA	35	SF	130%	46	

Building Services					130%	-
Janitor Closet	2	EA	100	SF	130%	130
Building Maiintenance Storage	1	EA	100	SF	130%	130
water Heater	1	EA	60	SF	130%	78
Telecom Room	1	EA	80	SF	130%	104
Main Electrical Room	1	EA	200	SF	130%	260
Server Room	1	EA	60	SF	130%	78
Receiving	1	EA	250	SF	130%	325

Rest	rooms						130%	-			
	Studen	t Toilet	2	EA	128	SF	130%	166			
	food service toilet		1	EA	64	SF	130%	83			
					7367			9,577	SF	120%	11,493

Cost Estimate Page 5 of 9

Building Gross

CONCEPTUAL COST ESTIMATE

Location	Quantity	Unit	Net usable	Unit	Room Net to Gross Add	Gross	Unit	Building Gross
Administration and Staff								
Regular Scheduled Staff								
Director	1	EA	250	SF	130%	325		
Staff	3		360	SF	130%	468		
Administration Assistant	1	EA	120	SF	130%	156		
future staff	1	EA	120	SF	130%	156		
Shift Schedule Staff						-		
Manager	1	EA	200	SF	130%	260		
Supervisor	1	EA	200	SF	130%	260		
Detention counseliors	0					-		
Staff (part Time)	0					-		
Conference Room	1	EA	264	SF	130%	343		
Staff Lounge	1	EA	300	SF	130%	390		
workroom	1	EA	150	SF	130%	195		
storage	2	EA	300	SF	130%	390		
Main Entrance	1	EA	300	SF	130%	390		
waiting area	2	EA	300	SF	130%	390		
Staff Entrance	1	EA	150	SF	130%	195		
Restrooms / lockers					10011	-		
Public	2	EA	128	SF	130%	166		
Staff locker rooms / Showers	2		600	SF	130%	780		
			3742			4,865	SF 12	0% 5,838
Assessment Center								
Staff (full Time)	4	EA	480	SF	130%	624		
Administration Assistant	1	EA	120	SF	130%	156		
Large Conference Room	1	EA	264	SF	130%	343		
Small Conference Room	2	EA	264	SF	130%	343		
Work Room	1	EA	150	SF	130%	195		
Storage	1	EA	100	SF	130%	130		
Assessment Entrance	1	EA	300	SF	130%	390		
Waiting Area	1	EA	150	SF	130%	195		
Assessment Break Area	1	EA	150	SF	130%	195		
Restroom			700			-		
Public Toilet	2	EA	128	SF	130%	166		
. asno ronot			2106		10070	2,738	SF 12	0% 3,285
	ı	ı	2.00			2,. 30		0,200
								SF
	•		Avg				Hig	h

Building Cost (Range) 32,521 SF 268.00 /SF 8,715,628.00 370.00 /SF 12,032,770.00

Cost Estimate Page 6 of 9

Location	Quantity	Unit	Net usable	Unit	Room Net to Gross Add	Gross	U
Base							
Clear							
Total Site Area	8	Acre					
Undeveloped	5	Acre	750.00		3,750.00		
Developer Area	3	Acre	2,500.00		7,500.00		
Demolition							1
Structure removal and dispo	sal 7,000	SF	3.50		24,500.00		
Storm Water Management							
Pond, piping and structures	1	LS	150,000.00		150,000.00		
Site prep area	130,680	SF	1.5		196,020.00		
Site Improvements							1
Visitor Parking	2,265	SY	40		90,613.33		1
Staff Parking & Drive	2,265	SY	40.00		90,613.33		
Site Fence	2,500	LF	55.00		137,500.00		
Security Fence	900	LF	193.00		173,700.00		
BasketBall court	1	EA					
(94x50) Fence back boards	etc 4,700	SF	15.00		70,500.00		1
Outdoor Area (Yard)	20,918	SF	4.00		83,672.00		
					-		_
Site Imporvements	20,000	SF	2.50		50,000.00		-
Utilities							1
Electrical	1	LS	25,000.00		25,000.00		1
Sanitary	1	LS	25,000.00		25,000.00		1
Water	1	LS	25,000.00		25,000.00]
Total Site Base					1,153,368.67		

Cost Estimate Page 7 of 9

Building Gross

CONCEPTUAL COST ESTIMATE

Durham County Youth Home	Cost/ SQ. F	<u>T.</u>	Cost/ SQ. FT.		
Building Building	156.00	-	197.50		
Equipment	25.50		43.50		
Plumbing	28.50		37.50		
HVAC	26.50		51.50		
Electrical	31.50		40.00		
Total	268.00		370.00		
Security Doors (Jail)		6,930.00	EA		
Security Fixtures					
WC/LAV (incl Rough in)		4,750.00	EA		
WC (incl rough in)		3,196.50	EA		
LAV (incl Rough in)		2,650.00	EA		
Shower (36x 369 x 88)		6,830.00	EA		
Total Site Area	8	Acre			
Developer	3	Acres			
Parking Area	40	Parking Spaces	\$650 SF for Space	\$ 26, 000	Parking

Unit Cost Page 8 of 9

Site Plan Area Assumptions

Area 1	Existing home	9,949	SF
Area 2	Existing EOC	6,905	SF
Area 3	Expansion Area	37,507	SF
Area 4	Staff Parking & Drive	20,388	SF
Area 5	Visitor parking	33,084	SF
Area 6	Yard	20,918	SF
Area 7	Storm water Pond	9,868	SF
Area 8	Basket Ball court	6,300	SF

New Site Takeoff Page 9 of 9



Post Office Box 12037 Research Triangle Park, NC 27709 919.941.9000 OBA Job# 2017039