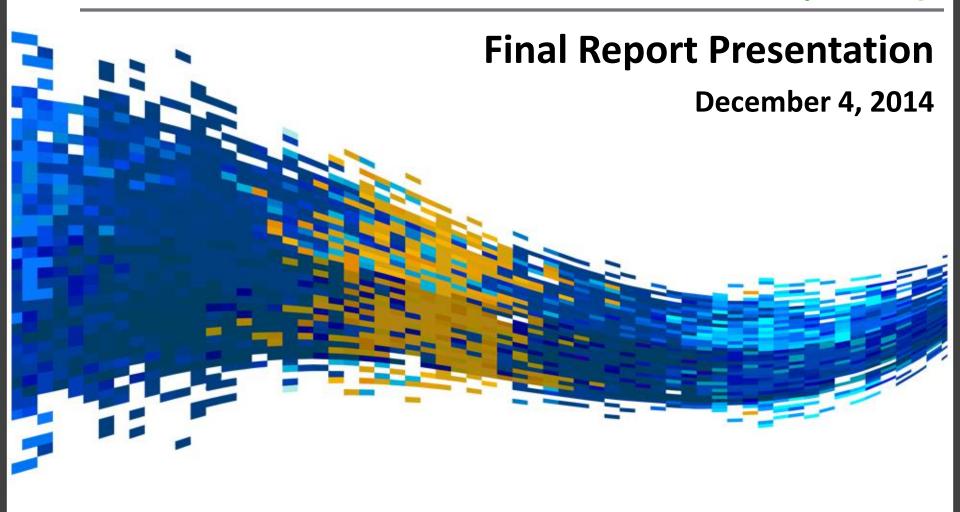
Sussex County, NJ





Sussex County, NJ

Presentation Team

Curtiss Pulitzer

Pulitzer/Bogard & Associates, LLC

Patrick Jablonski, Ph.D.

Luminosity Justice Solutions

Arthur Thompson

SMRT, Architecture Engineering and Planning

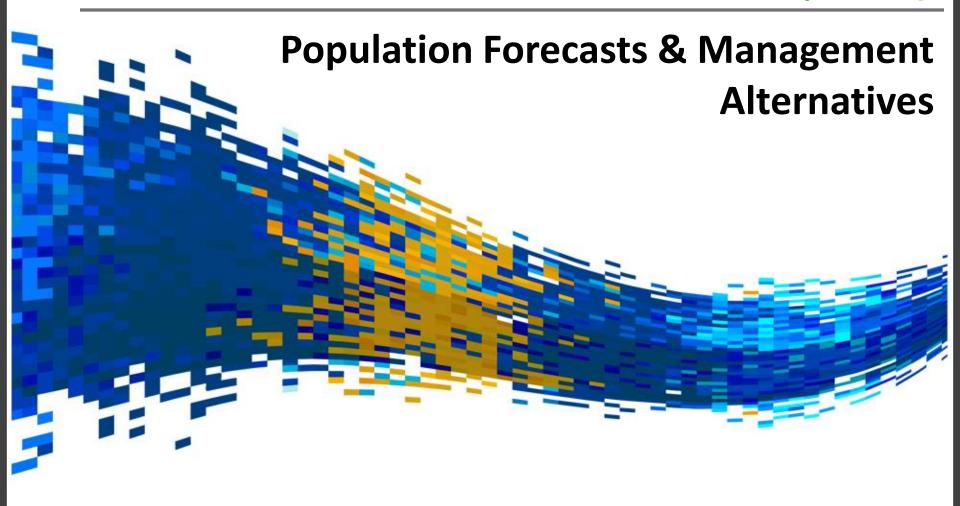


Scope of Project and Agenda

- » Jail Population Forecasts & Management Alternatives
- » Jail Operations and Healthcare Assessment
- » Operational and Architectural Programming
- » Staffing and Operating Costs
- » Jail Physical Plant Analysis
- » Design Concepts and Capital Costs



Sussex County, NJ





Sussex County, NJ

Population Forecasts & Management Alternatives

Patrick Jablonski, Ph.D., Senior Researcher, Luminosity



Outline

- » Factors Driving Jail Population Dynamics
 - Commitments
 - Average Length of Stay
- » Population Forecasts
- » Recommendations
- » Conclusion





Two Factors Drive Jail Populations:

- 1. Commitments How many people enter the jail
- 2. Average Length of Stay (ALOS) How long those people stay



If a jail takes in 2 people a day every day and they stay 2 days each, the Average Daily Population (ADP) will be 4

	Day 1	Day 2	Day 3	Day 4	Day 5
Inmate 1	X	X			
Inmate 2	X	X			
Inmate 3		X	X		
Inmate 4		X	X		
Inmate 5			X	X	
Inmate 6			X	X	
Inmate 7				X	X
Inmate 8				X	X
Total	2	4	4	4	4



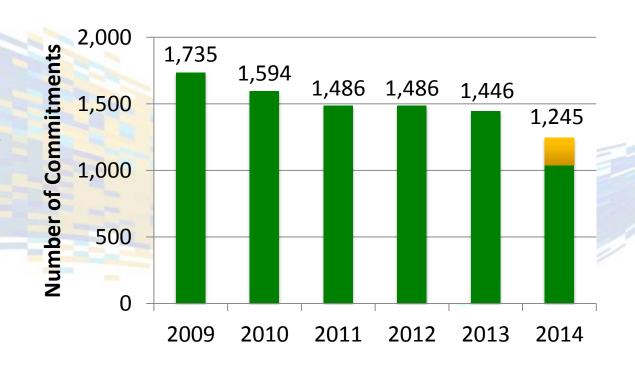
However, if a jail takes in 2 people a day every day and they stay 3 days each, the ADP becomes 6

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Inmate 1	X	X	X			
Inmate 2	Χ	X	X			
Inmate 3		X	X	X		
Inmate 4		X	X	X		
Inmate 5			X	X	X	
Inmate 6			X	X	X	
Inmate 7				X	X	X
Inmate 8				X	X	X
Total	2	4	6	6	6	6



- » Factor 1: Commitments
 - Annual Commitments, 2009 October 2014*

Commitments stable, 2010–2013

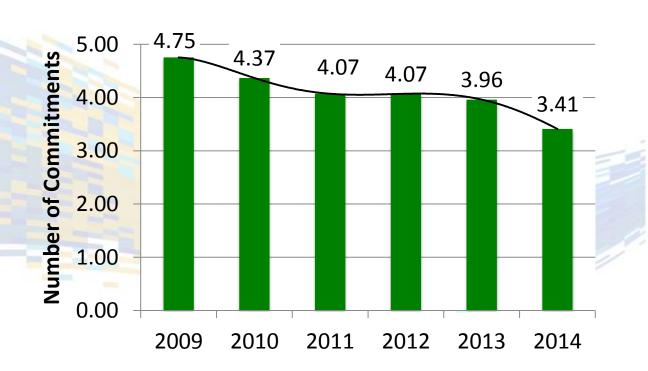


*2014 Is Annualized



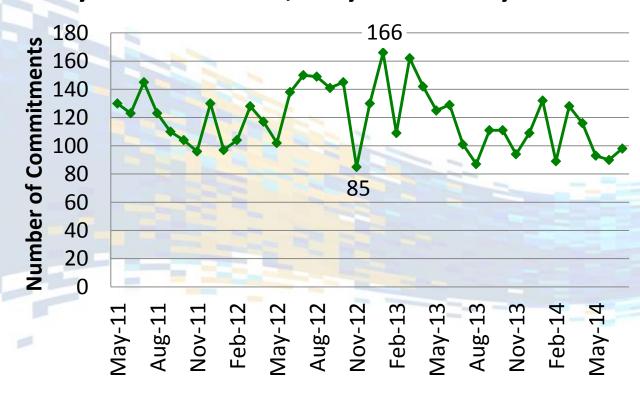
- » Factor 1: Commitments
 - Annual Average Daily Commitments, 2009 October 2014

Declined 28.2% since 2009





- » Factor 1: Commitments
 - Monthly Commitments, May 2011 July 2014





» Factor 2: Average Length of Stay (ALOS)

- Estimated ALOS = Annual ADP x 365 ÷ Annual Commitments
 - For example, the annual ADP in 2013 was 180 and the commitments totaled 1,446. As a result, the estimated ALOS for 2013 was 45.5 days (180 × 365 ÷ 1,446 = 45.5)



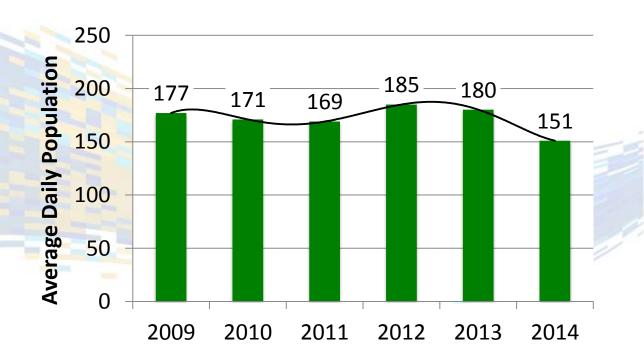
- » Factor 2: Average Length of Stay (ALOS)
 - ALOS in 2014 YTD decreased 6.5% from 2013
 - ALOS increased 14% from 2009

Year	Total Commitments	Daily Commitments	ADP	ALOS	IF ALOS	THEN ADP
2009	1,735	4.75	177	37.2		
2010	1,594	4.37	171	39.0		
2011	1,486	4.07	169	41.6		
2012	1,486	4.07	185	45.4		
2013	1,446	3.96	180	45.5		
2014 (First 10 Months)	1,245 (1,037)	3.41	151	44.4	37.2	127
Difference (2009 - 2014)		-28.2%	-14.7%	+19.2%		



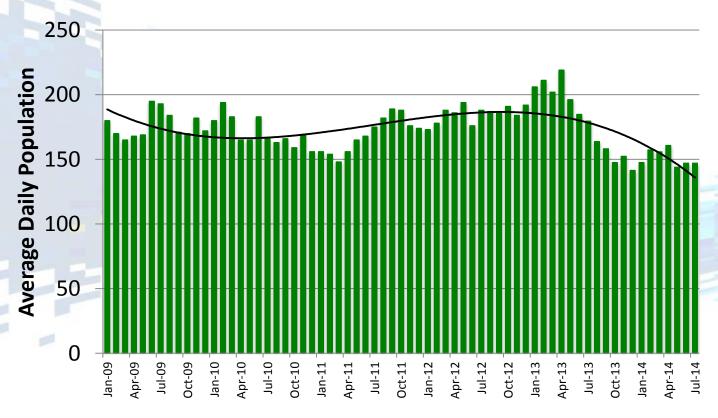
- » Average Daily Population
 - Annual ADP, 2009 October 2014

- Does NOT include ICE detainees
- Declined 14.7% since 2009



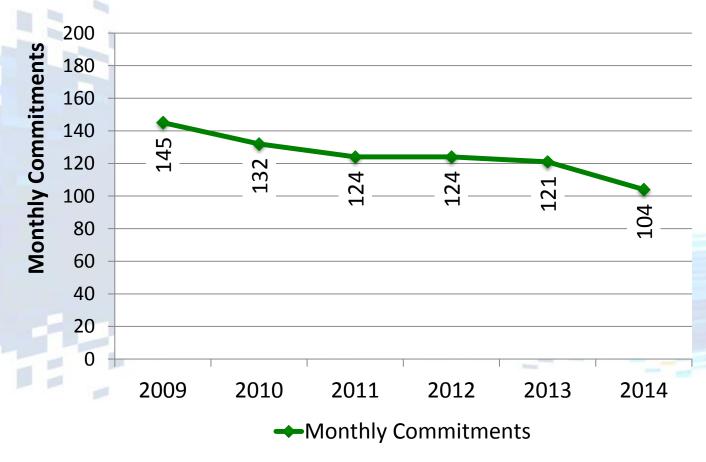


- » Average Daily Population
 - ADP by Month, January 2009 July 2014



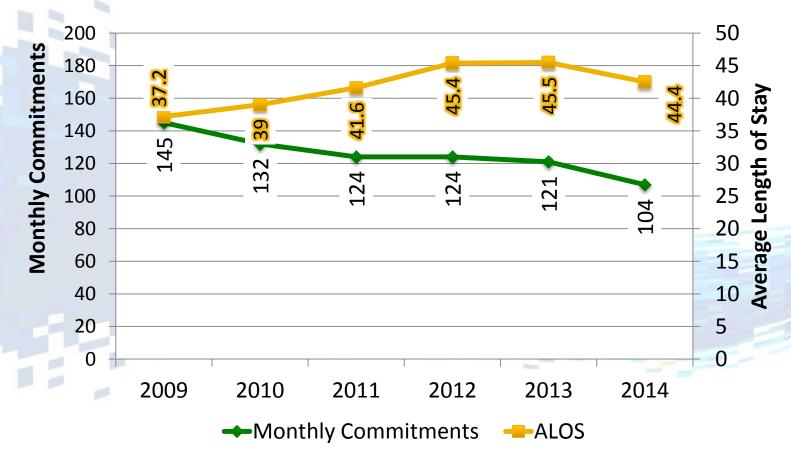


» Commitments



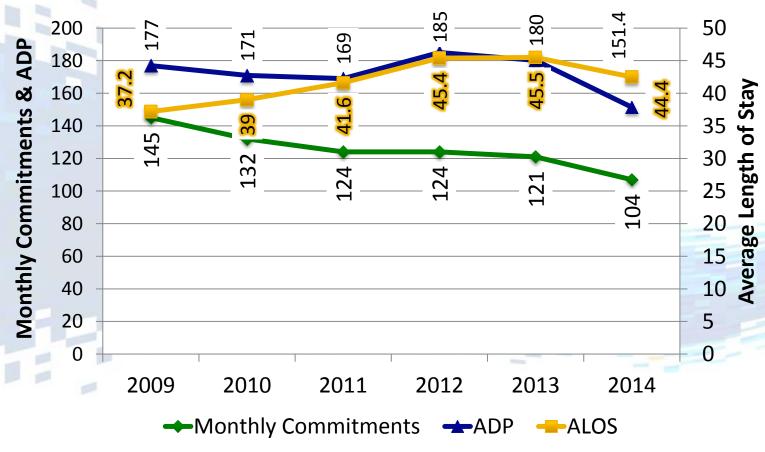


» Commitments & ALOS





» Commitments, ALOS & Average Daily Population



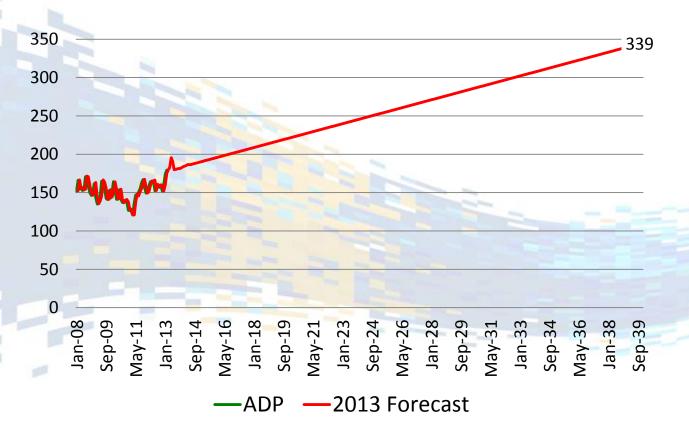




- » Best Predictor of a Trend's Future Pattern is that Trend's Past Pattern
 - Autoregressive Integrated Moving Averages (ARIMA)
 - Assumes status quo remains in place
 - Long-term accuracy affected by
 - Changes in public policy or law
 - Changes in law enforcement practices
 - Criminal justice resource changes
 - Socioeconomic factors
 - Other influences

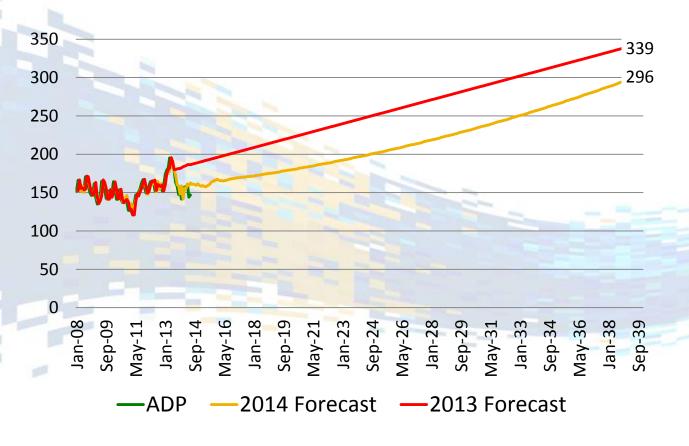


» Average Daily Population Forecast Through 2038





» Average Daily Population Forecast Through 2039





Year	Forecast ADP	Males	Females	Peaking Maintenance Factor (19.1%)	Classification Factor (10%)	Total Bedspace Needs
2015	161.6	135.8	25.9	30.9	16.2	208.6
2017	170.3	143.1	27.2	32.5	17.0	219.9
2019	177.2	148.9	28.4	33.8	17.7	228.8
2021	185.4	155.8	29.7	35.4	18.5	239.4
2023	194.5	163.4	31.1	37.2	19.5	251.1
2025	204.5	171.8	32.7	39.1	20.5	264.0
2027	215.4	181.0	34.5	41.1	21.5	278.1
2029	227.3	190.9	36.4	43.4	22.7	293.4
2031	240.0	201.6	38.4	45.8	24.0	309.9
2033	253.7	213.1	40.6	48.5	25.4	327.5
2035	268.3	225.4	42.9	51.2	26.8	346.3
2037	283.8	238.4	45.4	54.2	28.4	366.3
2039	300.2	252.2	48.0	57.3	30.0	387.5





- » The jail's population decrease is accounted for by a decrease in both commitments (both ICE and non-ICE) and ALOS
- » The jail's projected ALOS is a key component of the projected population increase
- » Managing ALOS may help control population growth
- » There exist 3 main types of opportunities to responsibly reduce ALOS:
 - Criminal justice system management
 - Case processing efficiency
 - Alternatives to detention



Criminal Justice System Management Recommendations:

- 1. Increase jail population information sharing
- 2. Establish a jail population manager position
- 3. Establish a criminal justice coordinating committee



Case Processing Recommendations:

- 1. Reduce Superior Court case backlog: preindictment
- 2. Reduce Superior Court case backlog: post-indictment
- 3. Priority scheduling/case processing for in custody pretrial defendants
- 4. Increase municipal court case processing efficiency



Alternatives To Detention:

- » After those 7 recommendations are fully implemented, there may still be opportunities to decrease the jail's population
- » Can implement alternatives to pretrial detention via a pretrial services program
 - Currently Have Home Detention
 - GPS Monitoring When Appropriate



Impact of Responsibly Managing ALOS:

- » Fully implementing the recommendations may help manage future jail population growth by limiting ALOS
- » In the first 10 months of 2014, the Jail received 1,037 admissions with an ALOS of 44.4 days – resulting in an ADP of 152 inmates
 - If admissions remained the same, but the ALOS was reduced by 19% to 37.2 days (as it was in 2009), the ADP would have been 127



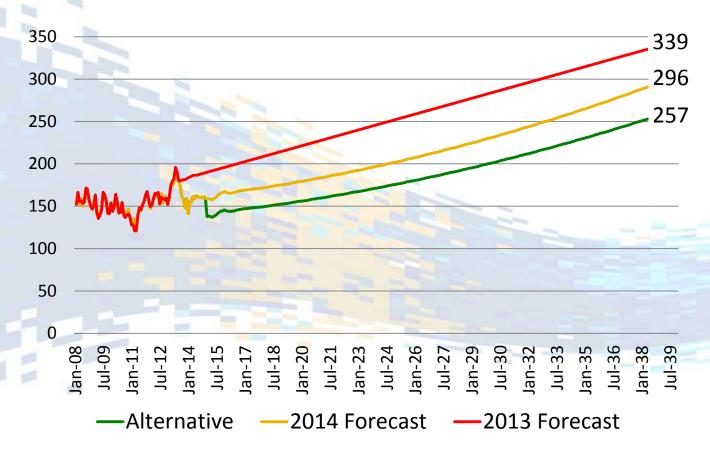
Summary

- » Commitments into the jail have decreased
- » The jail's ALOS has decreased
- » As a result, the jail's population has decreased
- » Opportunities remain to manage the ALOS and further reduce the jail population in the future



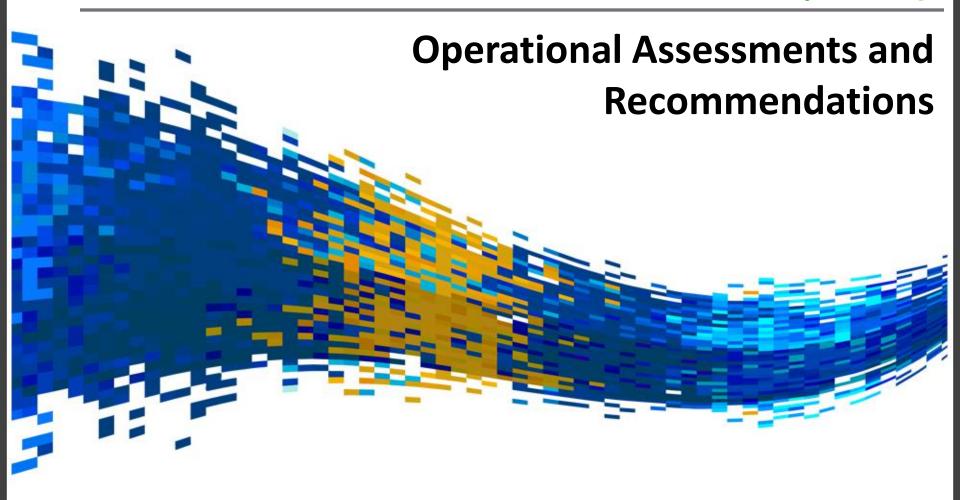
Conclusion

» Alternate Forecast From Reduced ALOS





Sussex County, NJ





Sussex County, NJ

Operational Assessment and Recommendations

» Curtiss Pulitzer, Pulitzer/Bogard & Associates, LLC



Key Findings: Operations

- » Physical plant does not support separation of the inmate populations according to the classification plan.
- » Female housing configuration limits their access to programs and services.
- » Housing 3 inmates to a cell at times is a significant concern for inmate safety and welfare.
- » Classification system and inmate safety is compromised by the lack of separate housing for special populations.
- » Work opportunities are limited for female inmates.



Key Findings: Operations

- » Current staffing coverage does not provide for optimum management and direct supervision of the inmate population.
- » A crowded Intake area hinders necessary privacy and male/female separation.
- » The jail configuration and numerous blind spots makes PREA compliance difficult to achieve.
- » Lack of program space limits the ability to provide treatment programming.
- » Greater collaboration with community resources is needed to enhance reentry services.



Key Findings: Staffing and Operating Costs

- » Correctional salaries and benefits are 87.6% of the budget which is high comparatively.
- » Per diem calculated at \$197.10 for an ADP of 185

Functional Area	Total Cost	Per Inmate
		_
Operations	\$1 <mark>1,</mark> 906,797.60	\$176.33
Health Care	\$1,097,913.41	\$16.26
Food Service	\$696,003.59	\$9.3066
Laundry	\$2,552.75	\$0.04
Maintenance	\$375,286.54	\$5.56
Utilities	\$306,554.90	\$4.54
Programs	\$3,365.62	\$0.05
Total	\$14,388,474.41	\$197.10



Per Diem Cost Analysis Comparison

» Per diem comparison with other NJ Counties

	Sussex	Warren	Somerset	Burlington	Bergen
Operations	\$176.33	\$113.8	\$202.40	\$141.83	\$178.36
Health Care	\$1 <mark>6.26</mark>	\$16.8	\$12.29	\$19.14	\$19.51
Food Service	\$9.30	\$5.6	\$8.00	\$5.43	\$6.62
Laundry	\$0.04	\$0.0	\$0.04	\$0.00	\$0.02
Maintenance	\$5.56	\$0.7	\$1.68	\$1.68	\$4.95
Utilities	\$4.54	\$3. <mark>5</mark>	\$2.55	\$0.02	\$5.70
Programs	\$0.05	\$0.0	\$2.86	\$3.24	\$3.07
Total	\$197.10	\$140.5	\$229.82	\$171.35	\$218.21
ADP	185	205	235	525	784



Operating Cost Savings Recommendations

- » Reduce the food service cost by 25%
- Consider the benefits of submitting RFPs for several functional areas to determine if contracted services may yield a decreased cost and improved service delivery.
- » Update the Jail's HVAC system to be energy and staff efficient



Sussex County, NJ

Health Care Assessment and Recommendations



Key Findings

- » Existing space for health care services is inadequate.
- » There are no dedicated medical observation, medical housing or ADA compliant beds
- There is no designated mental health housing with the exception of camera observation cells for suicide watch.
- » Having only paper health care records instead of EMR is problematic.
- » Use of independent contract medical, mental health and dental providers has resulted in fragmentation, inconsistency and inefficient provision of health care services.
- » The lack of a single health authority to provide leadership and greater accountability may be contributing to excessive costs.



Key Findings: Costs

- » The pharmaceuticals cost have in the past far exceeded the estimated cost in the contract.
- » More than 77% of the inmates are prescribed medications which is high for a jail population.
- » More than 42% of the jail population is prescribed psychiatric medication, higher than the national average of 16.6% for male inmates and 31% for female inmates.
- » 55% of the medication costs are for psychiatric medications.
- » The number of prescriptions per inmate per month (PIPM) not only increases operational costs (the costs of the medications themselves), but increases the time for medication administration by nursing staff.



Recommendations

- » Potential approaches to reduce health care costs include:
 - Use of telemedicine (where appropriate)
 - Reduce nursing time administering medications
 - Use a jail-based formulary
 - Base new health care contracts on inmate population size
 - Actively monitor that contracted services are provided
 - Audit costs
 - Measure the outcomes of costs on inmates' health.
- » Develop a nursing staffing plan that uses a mix of LPN and RN positions that would expand coverage to 24 hours.



Correctional Health Care Models

- » There are a number of correctional health care staffing models:
 - Blended Public Employee and Contracted Services
 - Public Employee Model
 - Contracted Services Model



Recommendations

- » There are significant potential advantages to the Contracted Services Model.
 - The vendor will typically subcontract for certain services such as hospitalization and certain clinical specialties
 - The vendor is responsible for all care and costs
 - The vendor indemnifies the county for any legal liabilities that may arise.
 - Greater opportunities for alliances and cooperation with the local health department necessary for effective reentry
 - Significantly decreases a county's legal exposure, if the county also maintains active contract monitoring



Sussex County, NJ

Operational and Architectural Programming



Programming Objectives

- » Direct Supervision of inmates where appropriate
- » Exercise yards adjacent to housing
- » Provide expanded program spaces with direct access from housing creating decentralized services
- » Provide appropriate medical and health care spaces & services
- » Provide appropriate Intake and Release spaces & services, including "open booking"
- » Provide video-visitation in housing areas to minimize inmate movement
- » Provide opportunities for operating savings through efficient staff deployment and reallocation of existing staff



Space Program Summary: 293 Beds

SUSSEX COUNTY JAIL EXPASION PROJECT Preliminary Macro Space Program					
Net					
Component Section	Component	Square Feet.	Gross Square Feet	Exterior Square Fee	
1.000	PUBLIC LOBBY	1,800	2,400	0	
2.000	ADMINISTRATION	2,100	2,700	0	
3.000	STAFF SUPPORT	3,400	4,600	0	
4.000	SECURITY OPERATIONS	1,600	2,200	0	
5.000	INTAKE PROCESSING CENTER	7,700	10,000	0	
6.000	HOUSING				
6.100	-Unit 1 (GP: Male Max/High Med)	6,100	10,100	750	
6.200	-Unit 2 (GP: Male Medium)	6,200	10,200	750	
6.300	-Unit 3 (GP: Male Minimum)	6,100	9,200	750	
6.400	-Housing Support	2,500	3,500		
6.500	-Unit 4 (Male Pre-Class/Seg)	6,800	11,100	750	
6.600	-Unit 5 (Female - All Class)	6,100	10,100	750	
6.700 Shared Housing Support 7.000 HEALTH CARE 7.100 Clinic 7.200 Medical Housing 7.300 Mental Health Housing 7.400 Shared Housing Support		3,000	4,200		
		1,900	2,900		
		1,700	2,700	750	
		4,200	6,900	750	
		1,700	2,500		
8.000	VISITATION	1,800	2,500		
9.000	PROGRAMS AND SERVICES	1,200	1,600		
10.000	INDUSTRIES	3,400	4,800	600	
11.000	FOOD SERVICE	3,300	4,300		
12.000	COMMISSARY	600	700		
13.000	LAUNDRY	1,300	1,950		
14.000	WAREHOUSE	5,400	6,500		
15.000	MAINTENANCE/CENTRAL PLANT	4,400	5,200		
16.000	SITE / PARKING			54,000	
	SUBTOTAL	84,300	122,850	59,850	
	Gross Factor (10%)		12,285		
	TOTAL		135,135	59,850	



Comparison-Current and Future Per Diem Costs

» Per Diem Comparison of proposed expansion with current Jail

	Current	Future
Operations	\$176.33	\$142.95
Health Care	\$16.26	\$21.00
Food Service	\$9.30	\$4.80
Laundry	\$0.04	\$0.00
Maintenance	\$5.56	\$4.00
Utilities	\$4.54	\$4.54
Programs	\$0.05	\$3.00
Total	\$197.10	\$180.29
ADP	185	293

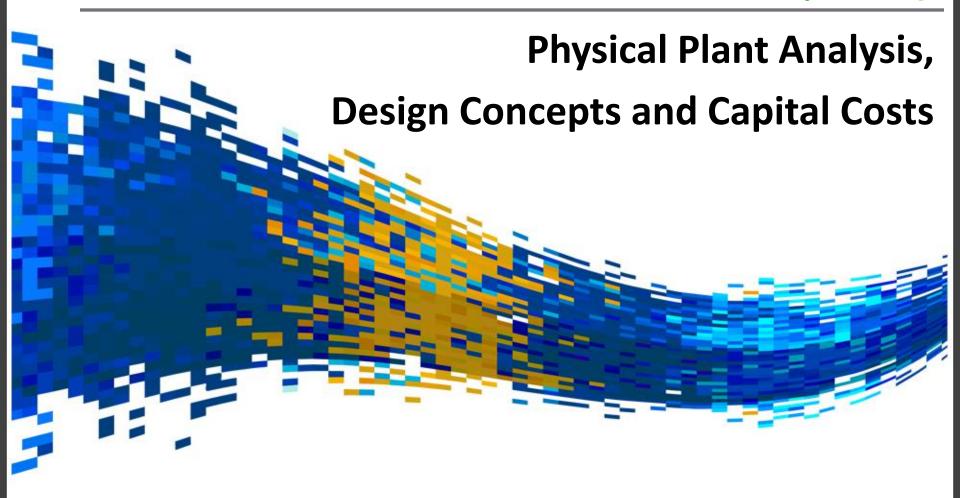


- » Staff to Inmate ratio comparison with current Jail
- » Assumes elimination of control booths and converting to direct supervision
- » Improves staff efficiency by 63%

	Staff	Capacity	Staff/100
			Inmates
Baseline	108	185	58.4
Projected	104	293	35.5



Sussex County, NJ





Sussex County, NJ

Physical Plant Analysis and Recommendations



» Key Findings

- Life Safety and Risk Evaluation
- Suicide Risk Mitigation
- Architectural/Structural Systems
- HVAC Systems
- Plumbing
- Fire Protection
- Electrical
- Security Electronics and Control Systems



» Facility Improvement Recommendations

Within 1 year

•	Infrared imaging of switchgear	\$12,000
•	Security review of existing locks and controls	\$15,000
	Roofing condition inspection	\$4,000
	Building Sewers (Cost for major replacement scope)	\$160,000
•	Replace Kitchen System Ventilation System	\$95,000
•	Move and replace UPS, provide air conditioned space	\$25,000
-	Repair any diagnosed problems from switchgear infrared analysis	\$10,000
•	Repair or schedule any diagnosed problems from roof inspection	\$TBD (Allow \$50,000)
•	Replace generator & transfer switches & main distribution switchboard	\$250,000
•	Fire Alarm System	\$60,000

■ TOTAL.....\$681,000



Exterior Sealant Replacement

» Facility Improvement Recommendations

Within 3 Years

	Exterior sediant replacement	700,000	
•	Start Housing Unit Renovations / Cell Renovations	\$630,000	
	(\$315,00 per 8 cells)		
	Provide Fire Sprinklers in Housing Areas	\$50,000	
•	Panelboards	\$25,000 - 50,000	
٠	Light fixture replacements	\$20,000	
-	Occupancy sensors	\$5,000	

\$60,000

\$TBD in next Study Phase

Occupancy sensors
 Special Needs Housing Improvements
 Building Reorganization and/or Expansion

Building Reorganization and/or Expansion \$TBD in next Study Phase
 Mechanical System Replacement \$1,800,000
 Replace Air Handling Units, Exhaust Fans, VAV Units.

Heating Boiler Replacement including Pumps and Piping

Replace Chilled Water System, Pumps, Piping

Replace Mechanical Systems Control System

Testing and Balancing

Commissioning

Replace Exercise Yard Roof Deck \$80,000

■ TOTAL\$2,695,000



» Facility Improvement Recommendations

Within 3 to 10 years

-	Complete Housing Unit Renovations / Cell Renovations	\$2,520,000
•	Provide Fire Sprinklers in Housing Areas	\$100,000
-	Laundry Ventilation System/ Control System, Test and Balance	\$29,000
-	Replace Motor Control Panel	\$30,000
•	Wiring Device Replacement	\$50,000
	Light Fixture Replacement with LED Fixtures Throughout	\$50,000
	Replace Roofing, Parapet Covers, and Wall Copings	\$400,000
	Based upon inspect <mark>ion, this item may move up in prior</mark> ity	
•	Window Replacement. Any windows not replaced	\$892,000
	Any window not replaced as a part of the housing unit renovations	
	should be replaced within 10 years, though performance of this	
	work with othe <mark>r window</mark> s will provide the best value.	
•	Replace Domestic Hot Water Heater System with Instantaneous Heater	\$76,000
•	Supplement with Solar Hot Water Heating Collectors	\$450,000
	(Curbs must be installed when new roofing installed.)	
		_
1	TOTAL	\$4,597,000



10 Year Program Costs

» Program Costs

Within Year 1

Base Cost: \$681,000

+ 18% Soft Cost: \$804,000

+ 15% Contingency: \$924,000

Within 1 to 3 Years

■ Base Cost: \$2,695,000

• + 18% Soft Cost: \$3,180,000

+ 15% Contingency: \$3,657,000

Within 3 to 10 Years

Base Cost: \$4,597,000

+ 18% Soft Cost: \$5,424,000

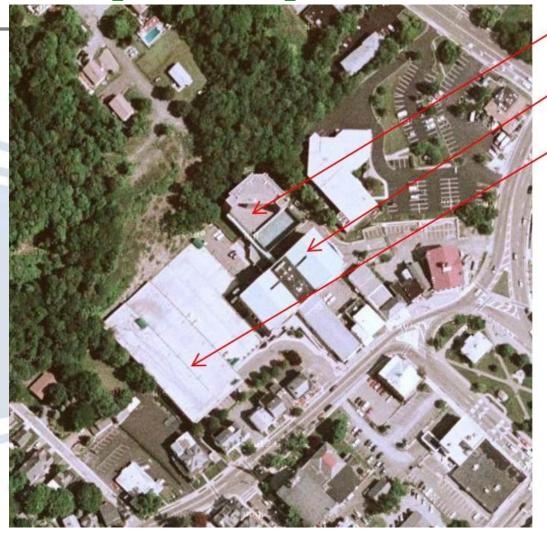
+ 15% Contingency: \$6,238,000

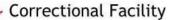


Sussex County, NJ



Overview





Courts

Parking Structure



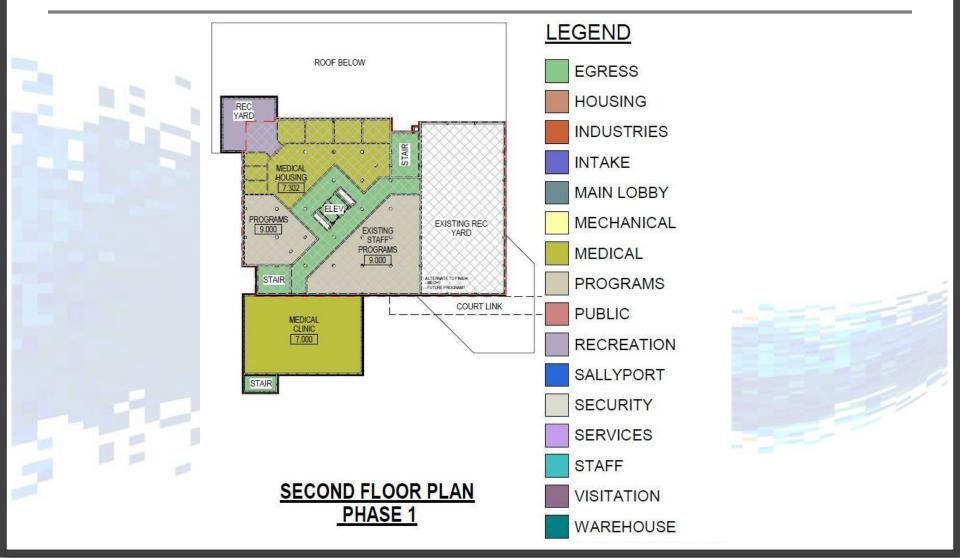
The most pressing needs include:

- Addressing suicide prevention in housing areas as well as the deteriorating physical plant.
- Diminish the escape potential of inmates.
- Improve observation and oversight of inmates.
- Creating appropriate medical and mental health treatment space and housing.
- Creating an appropriate booking and intake area
- Replacing the existing HVAC systems with a new energy and cost-efficient system.
- Create more efficient decentralized services for the inmate population to minimize escorted movement within the jail
- Create more efficient and effective inmate supervision in housing areas with the introduction of direct supervision in housing pods.
- Enhance the safety of inmates, staff and the public.

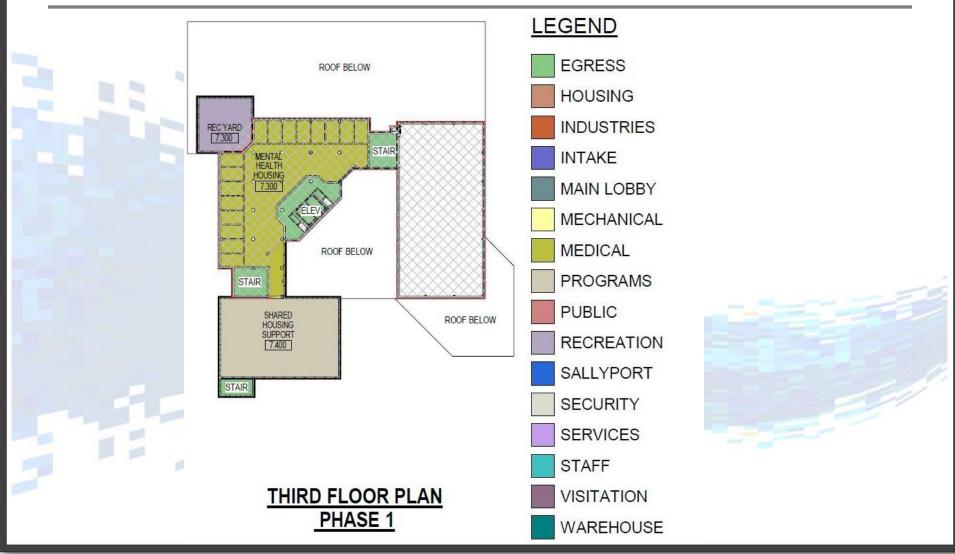




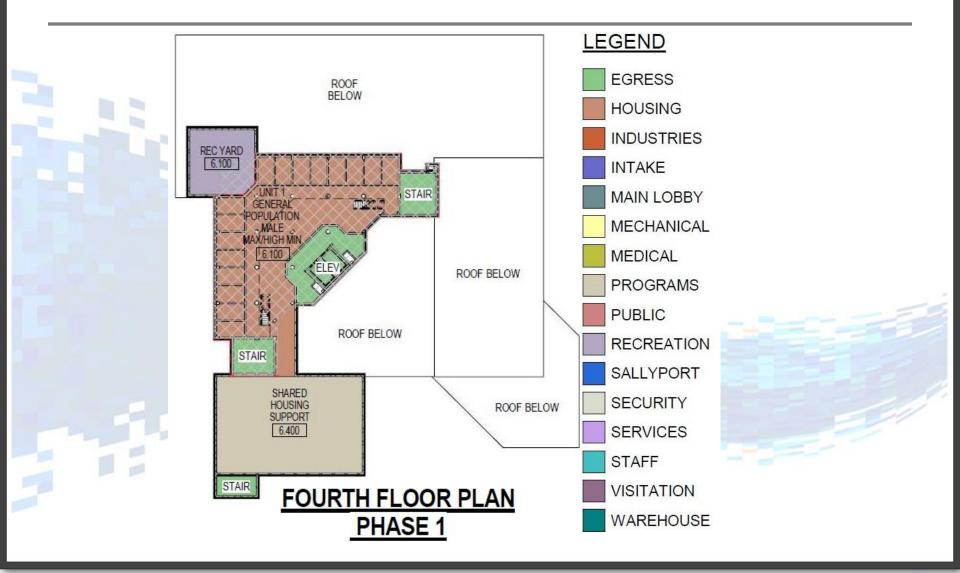




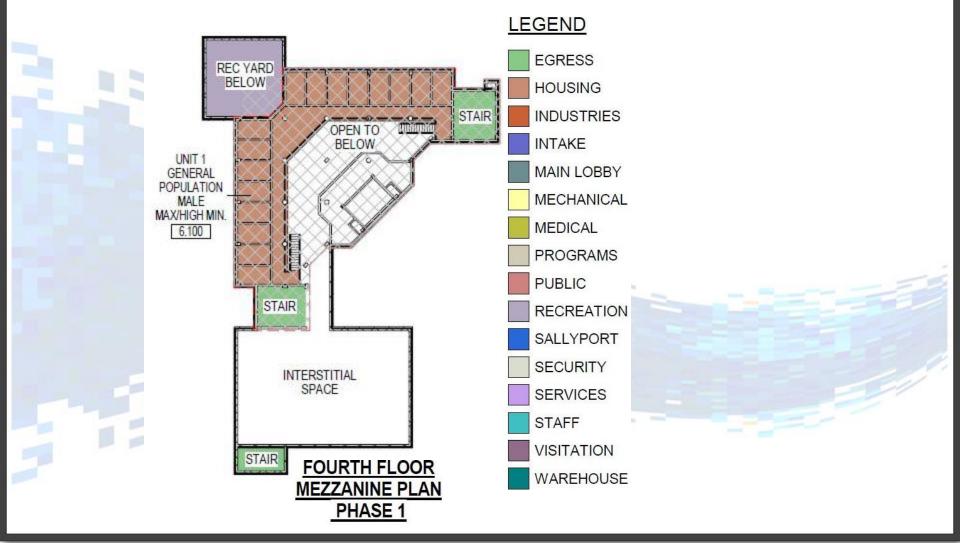




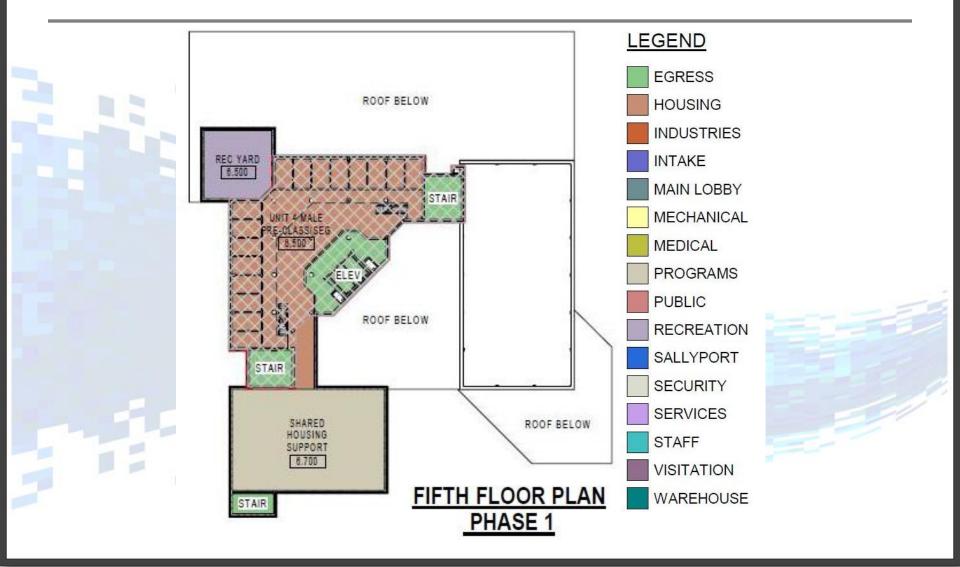




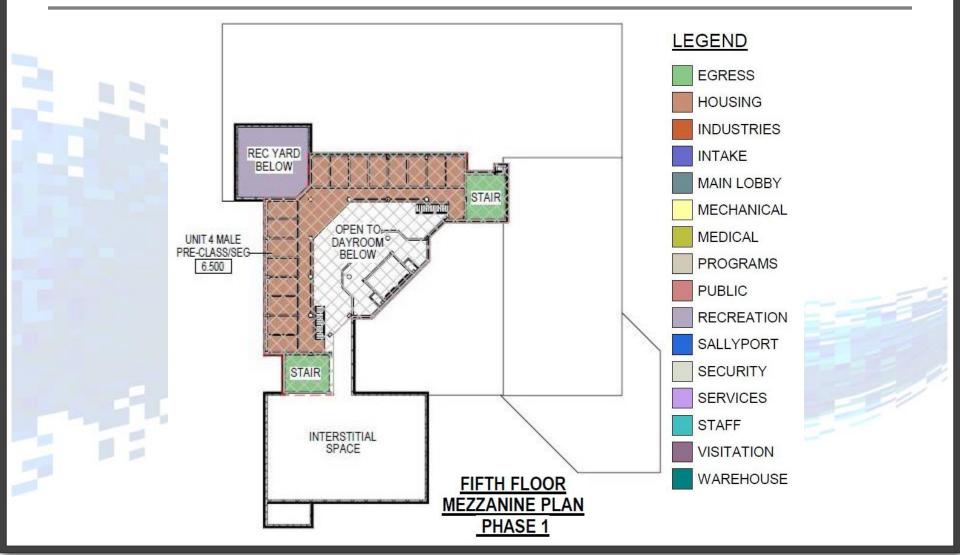




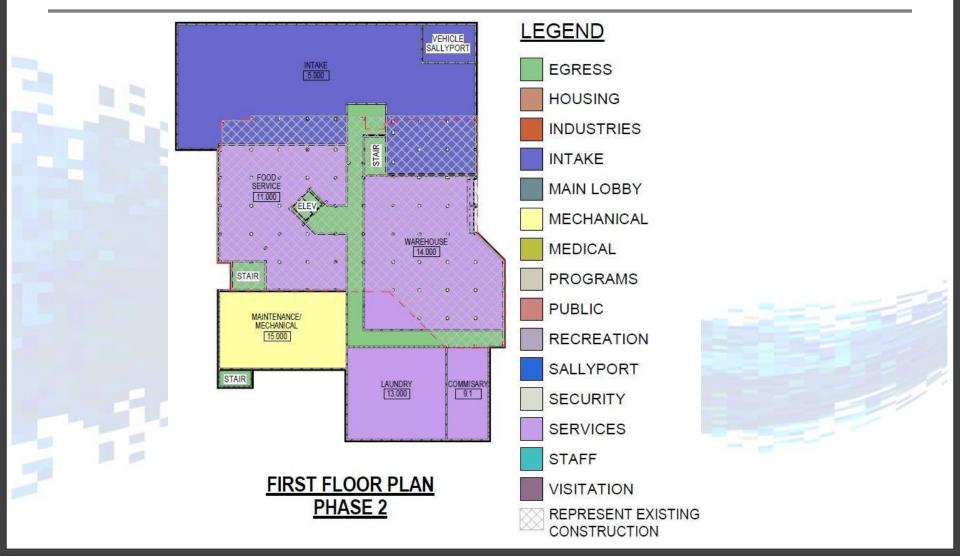




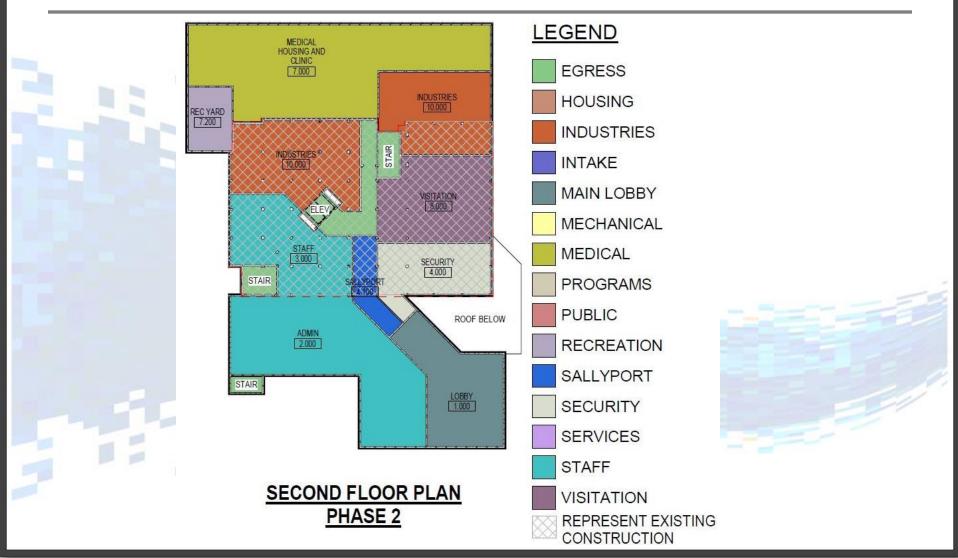




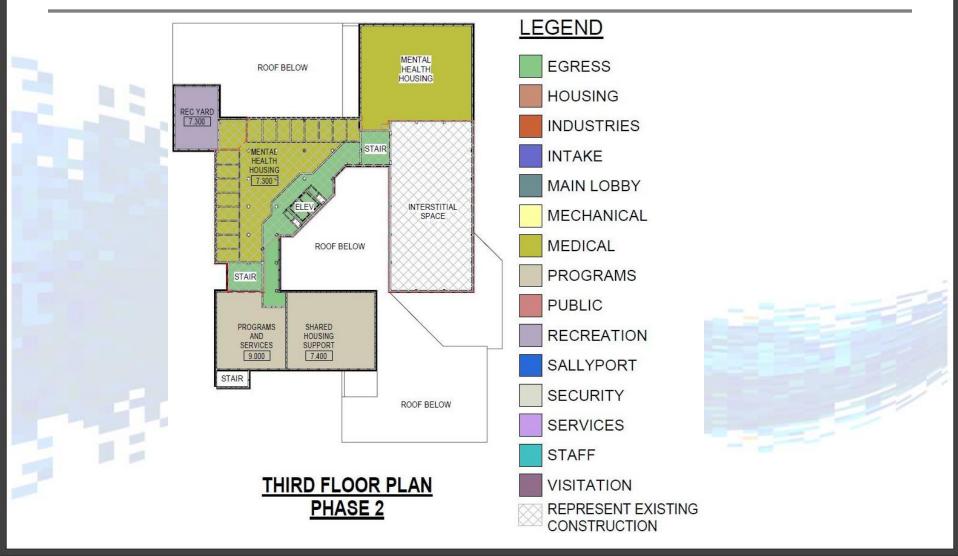




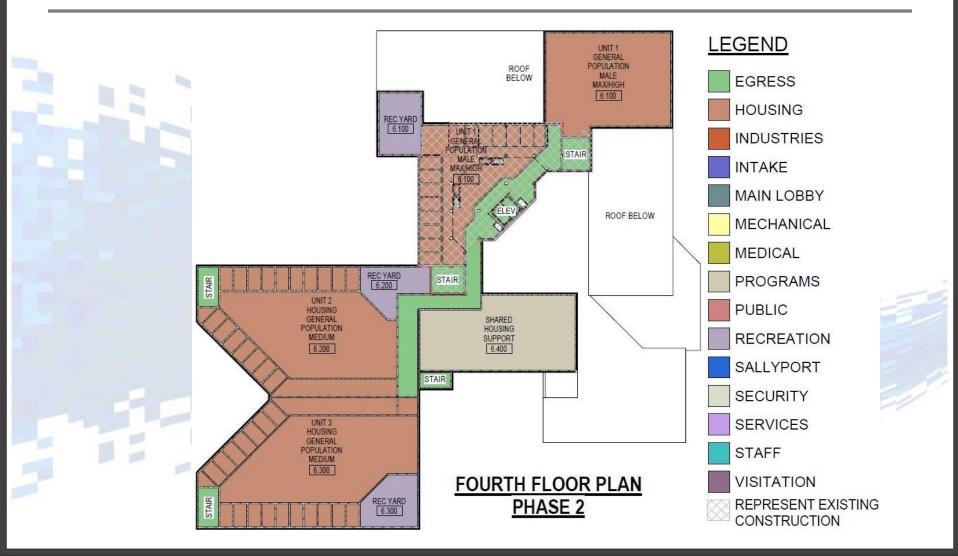




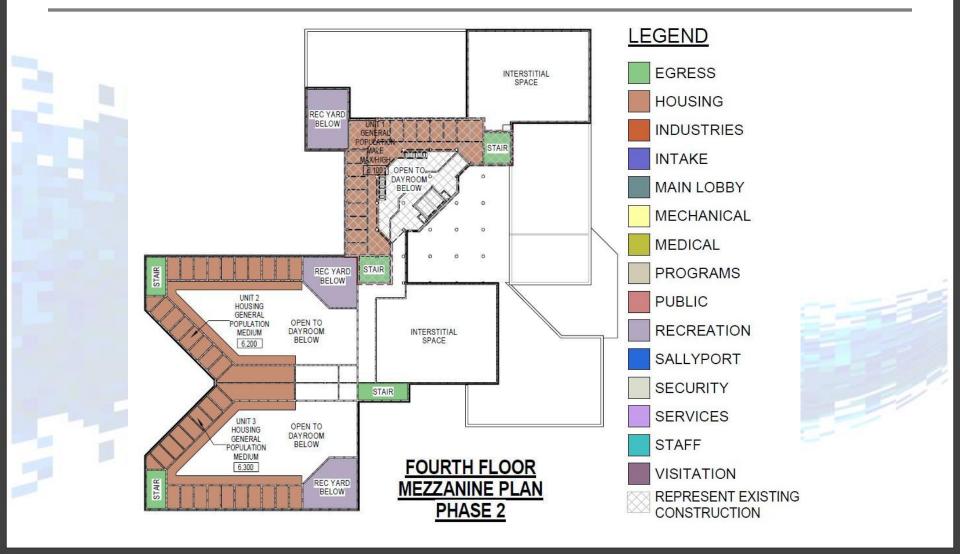




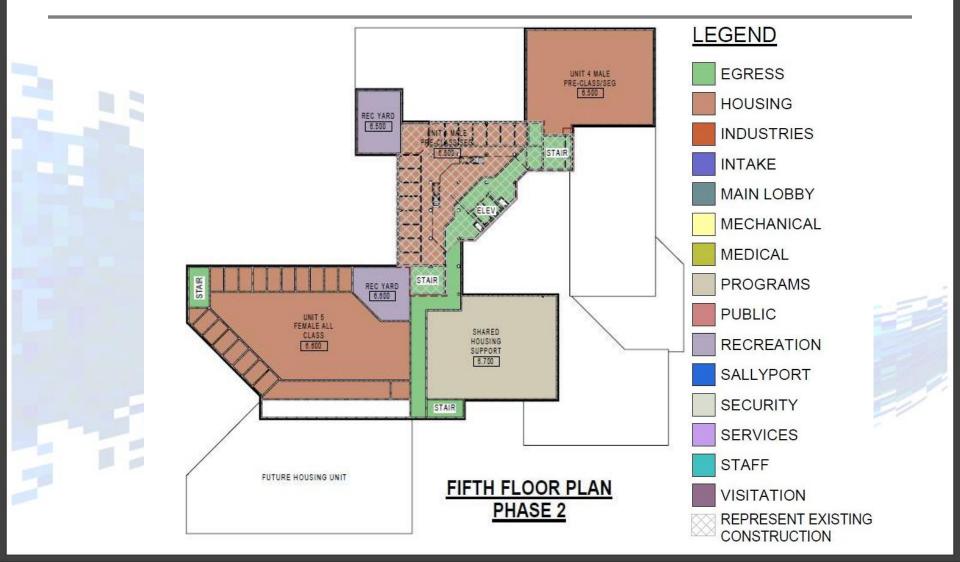




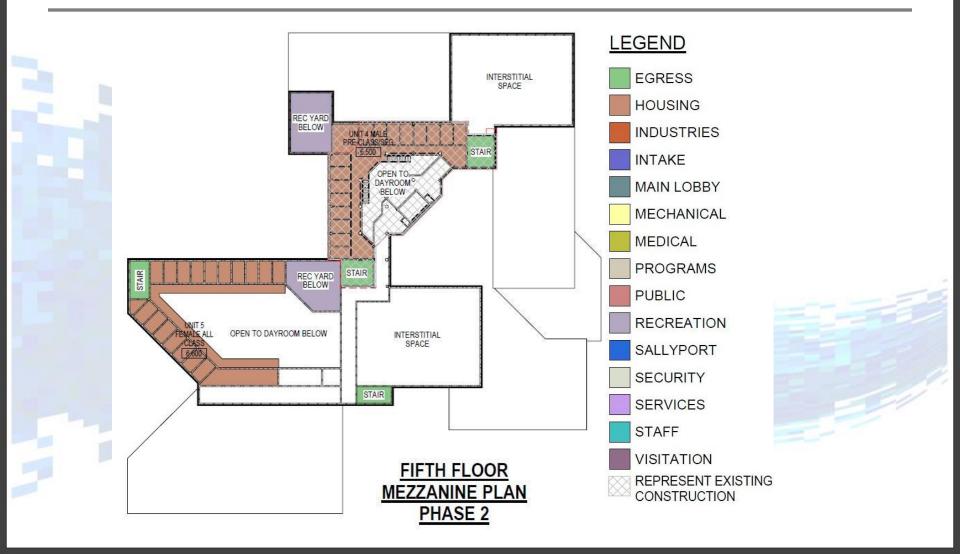




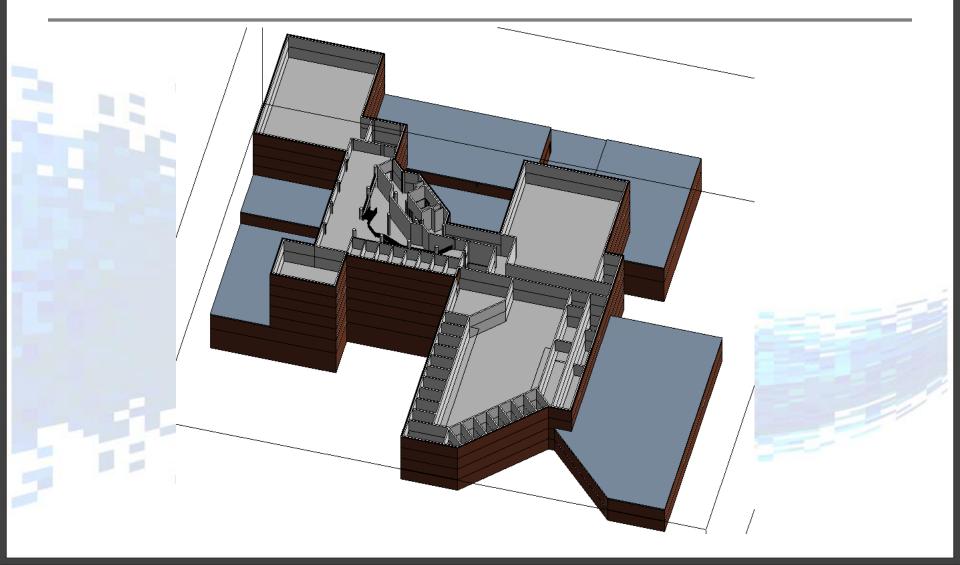




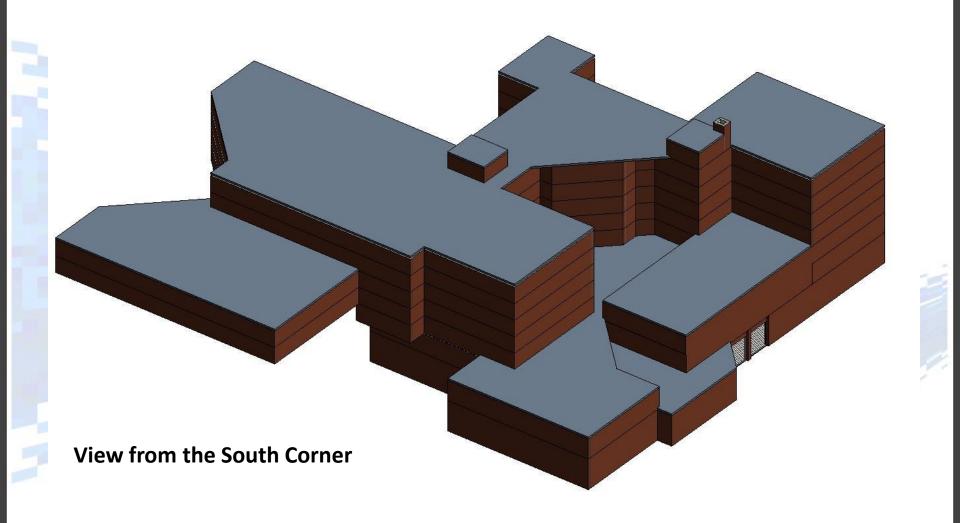














Total Program Phased		\$/PSF	Total Cost
Phase One			
Renovation	11,000	\$200	\$ 2,200,000.00
New Construction	21,050	\$365	\$ 7,683,250.00
Total Construction			\$ 9,883,250.00
Contingency	15%		\$ 1,482,487.50
Soft Costs	18%		\$ 1,778,985.00
Total P-1 Const. Costs			\$ 13,144,722.50
Total conditions report			\$ 10,819,000.00
Total Phase One			\$ 23,963,722.50
Phase Two			
Renovation	21,050	\$225	\$ 4,736,250.00
New Construction	65,810	\$415	\$ 27,311,150.00
Total Construction Cost			\$ 32,047,400.00
Contingency	15%		\$ 4,807,110.00
Soft Costs	18%		\$ 5,768,532.00
Total P-2 Project Costs			\$ 42,623,042.00

