Applying Human-Centered Lens to Safety in Behavioral Health



Scott Melby Chief Operations Officer



Becky Robinson Clinical Director

Agenda

- An Introduction to Human-Centered Safety® Approach to Behavioral Environments
- Challenges and History that Shaped the Minnesota Security Hospital Project
- How Owner, Designer, Contractor Coordinated and Phased Project to Maintain Operations and Security
- Highlight of the Outcomes including First-Year Data
- Lessons Learned

Learning Objectives

- Describe a human-centered approach to behavioral/mental health environmental assessment
- Explain the relationship between a therapeutic and safe environment
- Identify environmental elements that can reduce patient stress and adversarial interactions
- Illustrate how phasing and coordination can allow a hospital to maintain operations while improving safety and security

"I will never pick another patient out of razor wire again.

They do not react the way you and I react."





A control strategy is not effective

- It suggests authority
- It imposes restrictions
- They will assess on their own and decide for themselves
- They may will rebel



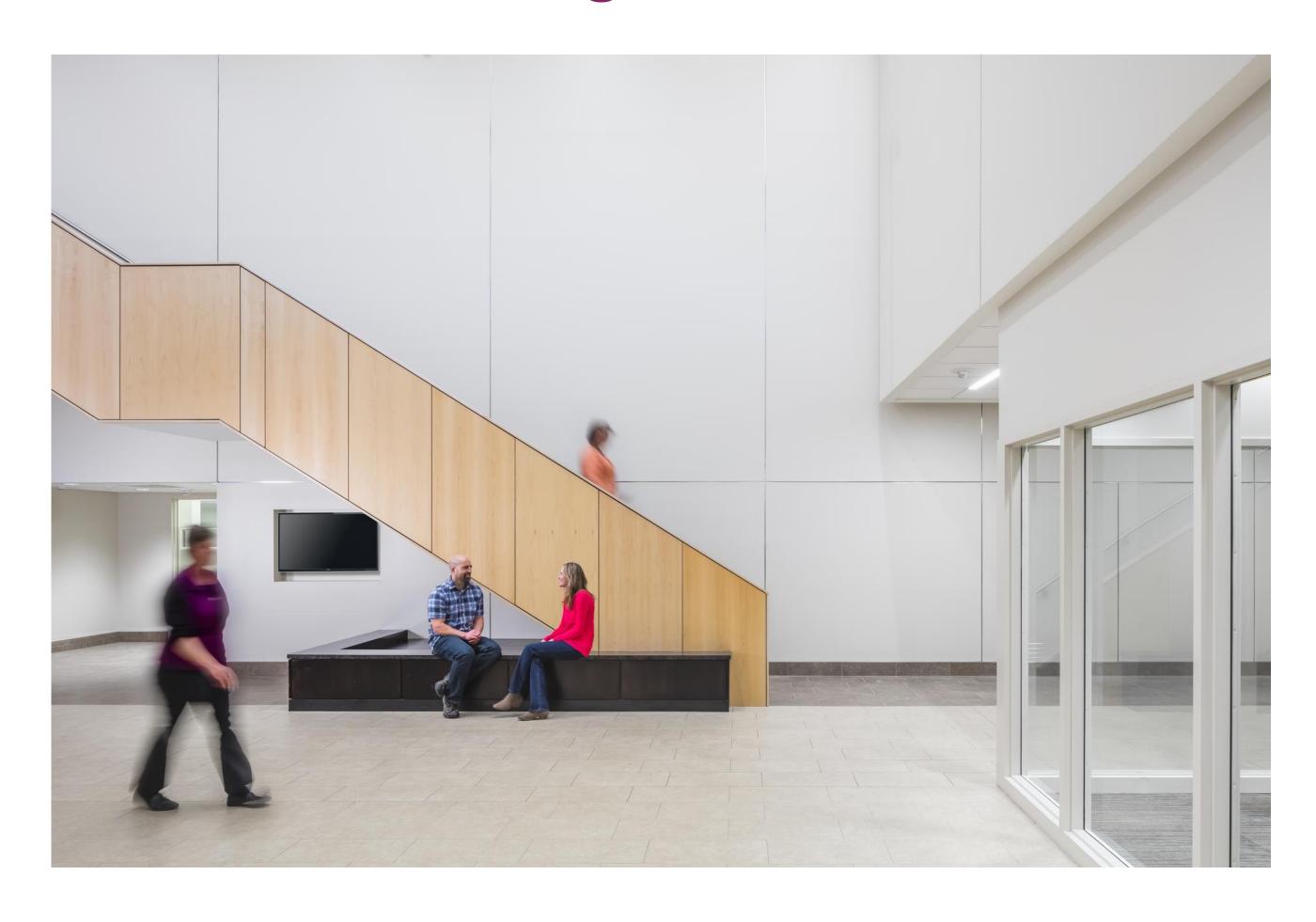
The environment shapes behaviors

- Fosters a selfregulated response
- Provides guidance or boundaries
- Grants patients the power to decide
- Establishes trust
 with staff



Friend vs. Foe: What is the space communicating?





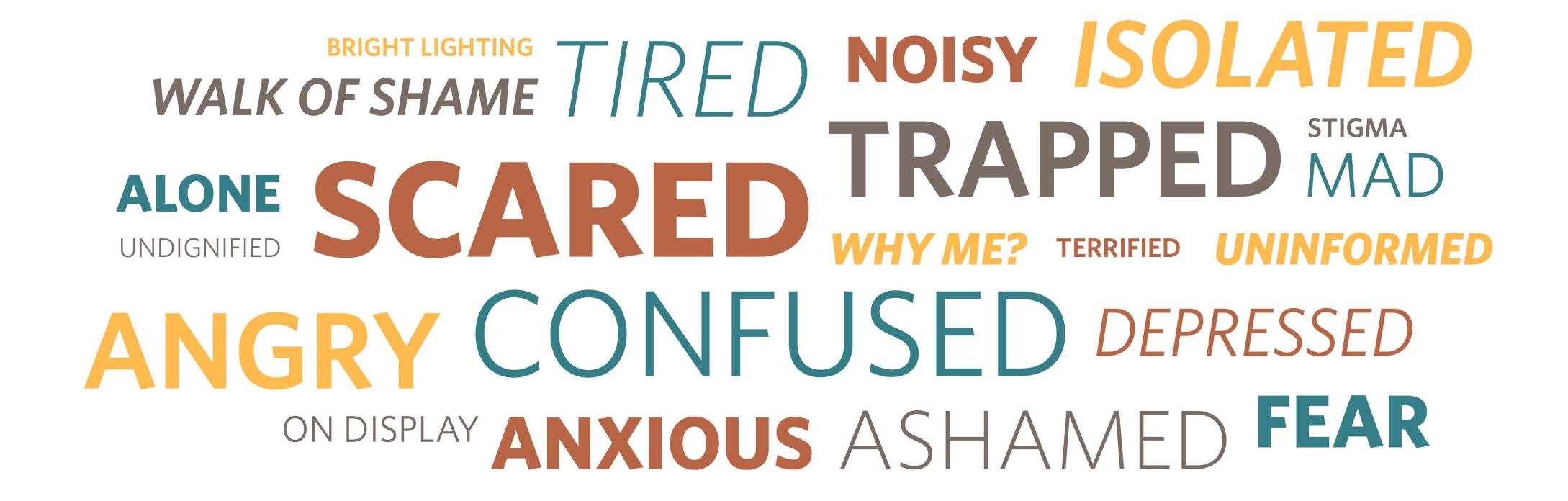
Research Informed

"[U]nderstanding the relationship between stimulation and human responses is an important component of good design."

-- D. Kopec, Environmental Psychology for Design

Research Informed

What patients feel (NAMI focus group)



Lessons Learned

Traditional

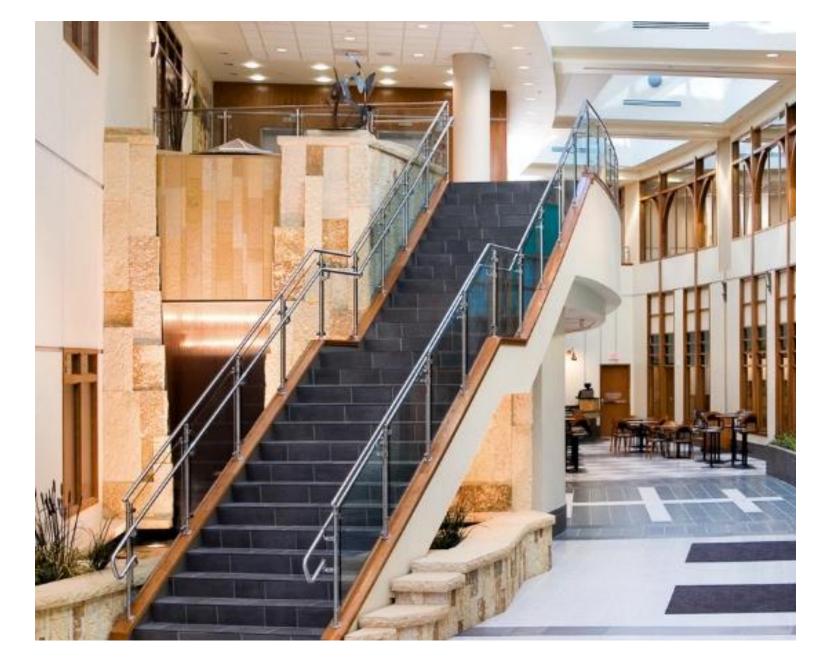
Punitive Shaming

Confrontational

Scary
Controlling
Threatening
Humiliating



Human-Centered



Therapeutic Empathetic Inviting
Liberating
Safe
Comforting
Dignified

Lessons Learned

Punitive

Shaming

Controlling

Threatening

Humiliating

Scary

Confrontational

Traditional

Human-Centered



Therapeutic

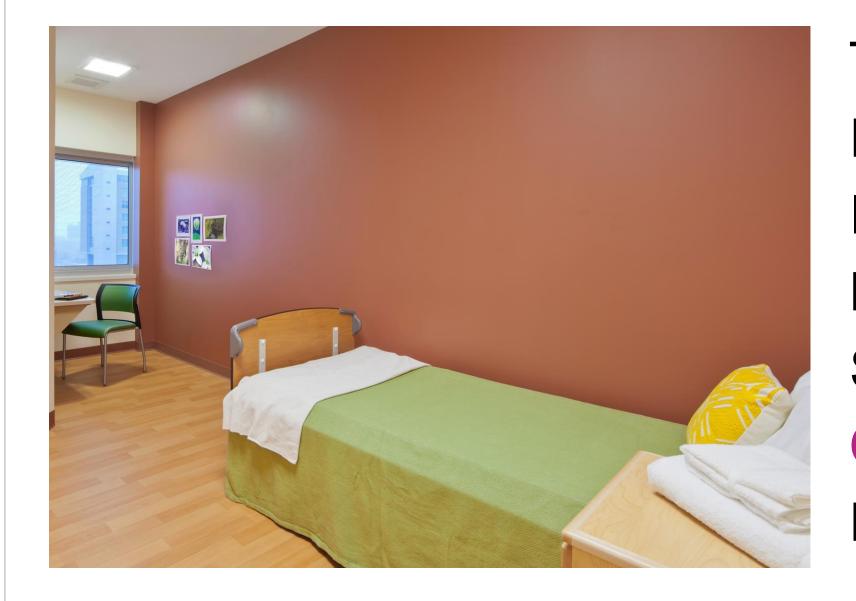
Empathetic Inviting Liberating Safe Comforting Dignified

Lessons Learned

Traditional

Punitive
Shaming
Confrontational
Scary
Controlling
Threatening
Humiliating

Human-Centered



Therapeutic
Empathetic
Inviting
Liberating
Safe
Comforting
Dignified

Tangible VS. Intangible Strategies for Safety and **Anti-Ligature**



Sightlines



Noise



Creating an Environment for Care

"The conceptual model switches the treatment focus away from problem behaviors to adaptive behaviors.

The treatment is focused on teaching new coping skills rather than on containment of maladaptive behaviors."

-- Hillebrand and Young,

"Instilling hope into forensic treatment: The antidote to despair and desperation," Journal of the American Academy of Psychology and the Law



Historic

- Opened in 1866 as Minnesota's first psychiatric hospital
- Currently Serves patients deemed by the courts to be mentally ill and dangerous
- Operated by the Department of Human Services
 - 370 patients served on any given day
 - 997 staff employed (on 9/27/19)







Recent History

Security hospital fined over workplace safety

Patient assaults on staff at center of OSHA probe

By Dan Linehan dlinehan@mankatofreepress.com Aug 15, 2014

MORE INFORMATION



Security Hospital fined \$63,000 for workplace safety violations

Nine workplace violence incidents



ST. PETER — The Minnesota Security Hospital has not done enough to protect its employees from violent patients, according to federal workplace safety regulators.

The Occupational Safety and Health Administration levied a \$4,900 fine on the St. Peter hospital, which houses the mentally ill and dangerous.

STATE + LOCAL

State is fined \$63K for safety violations at security hospital in St. Peter

By Chris Serres Star Tribune

DECEMBER 9, 2015 - 9:50PM



GLEN STUBBE - STAR TRIBUNE FILE

This file photo shows bedrooms in the men's admission and crisis wing of the Minnesota Security Hospital in St. Peter, Minn.

The Minnesota Department of Human Services was fined \$63,000 — the largest such penalty against a state agency in more than a decade — for failing to protect workers at the St. Peter psychiatric hospital from violent assaults by patients.

The citation by Minnesota OSHA identified nine incidents between early May and mid-July that exposed employees to risk of serious injury or death, underscoring the challenges the state faces in maintaining order in a

Recent History

Security Hospital staff picket, try to raise awareness about worker injuries

Sep 11, 2014



Minnesota Security Hospital workers held an informational picket Thursday near an entrance to the St. Peter facility. They were calling attention to the unsafe working conditions. Photo by John Cross

STATE + LOCAL

Dayton seeks \$177M investment in state psychiatric facilities

Gov. Dayton seeks to target 'decades of neglect' at staterun psychiatric facilities.

By Chris Serres and J. Patrick Coolican Star Tribune APRIL 6, 2016 — 9:16PM



Jackie Spanjers spoke Wednesday about dangerous conditions that she and other nurses have to work under at the Anoka-Metro Regional Treatment Center. Behind her Gov. Mark Dayton.

Seeking to fill chronic gaps in Minnesota's mental health system, Gov. Mark Dayton is proposing \$177.3 million to improve patient care and safety at state-run psychiatric facilities.

The proposal unveiled Wednesday would amount to the largest single-year appropriation for mental health in at least 20 years and is designed to correct years of underfunding. Inadequate staffing and a large influx of

OPINION EXCHANGE

The Minnesota Security Hospital at St. Peter still needs work

Despite some progress over the past year on training and restraints, the state needs to do more to improve treatment of our mentally ill.

By Claire Wilson, Shannah Mulvihill, Sue Abderholden and Grace Tangjerd Schmitt AUGUST 2, 2015 - 9:16PM



GLEN STUBBE • STAR TRIBUNE

The Minnesota Security Hospital in St. Peter is a treatment facility for people who have been committed by the court as mentally ill and dangerous.

A little over a year ago, the mental health community came together at a news conference to raise concerns about the quality of care and treatment being provided at the Minnesota Security Hospital (MSH) in St. Peter. Since then, changes have been made: Staff received training on how to avoid and safely use seclusion and restraints in an emergency; a family council has formed; additional staffing was funded, and plans are underway to remodel

Goals for Project

- Create a safer living environment for patients;
- Create a safe, efficient work environment for staff;
- Create an effective therapeutic setting that helps reduce the average length of a patient's stay;
- Consolidate patients onto the upper campus
- Provide units that allow patients to access a continuum of care, and better sense their progress through treatment
- Maintain operations and improve safety during construction

Consolidate
Security
Hospital
functions to
more
efficiently and
effectively
treatment
patients.



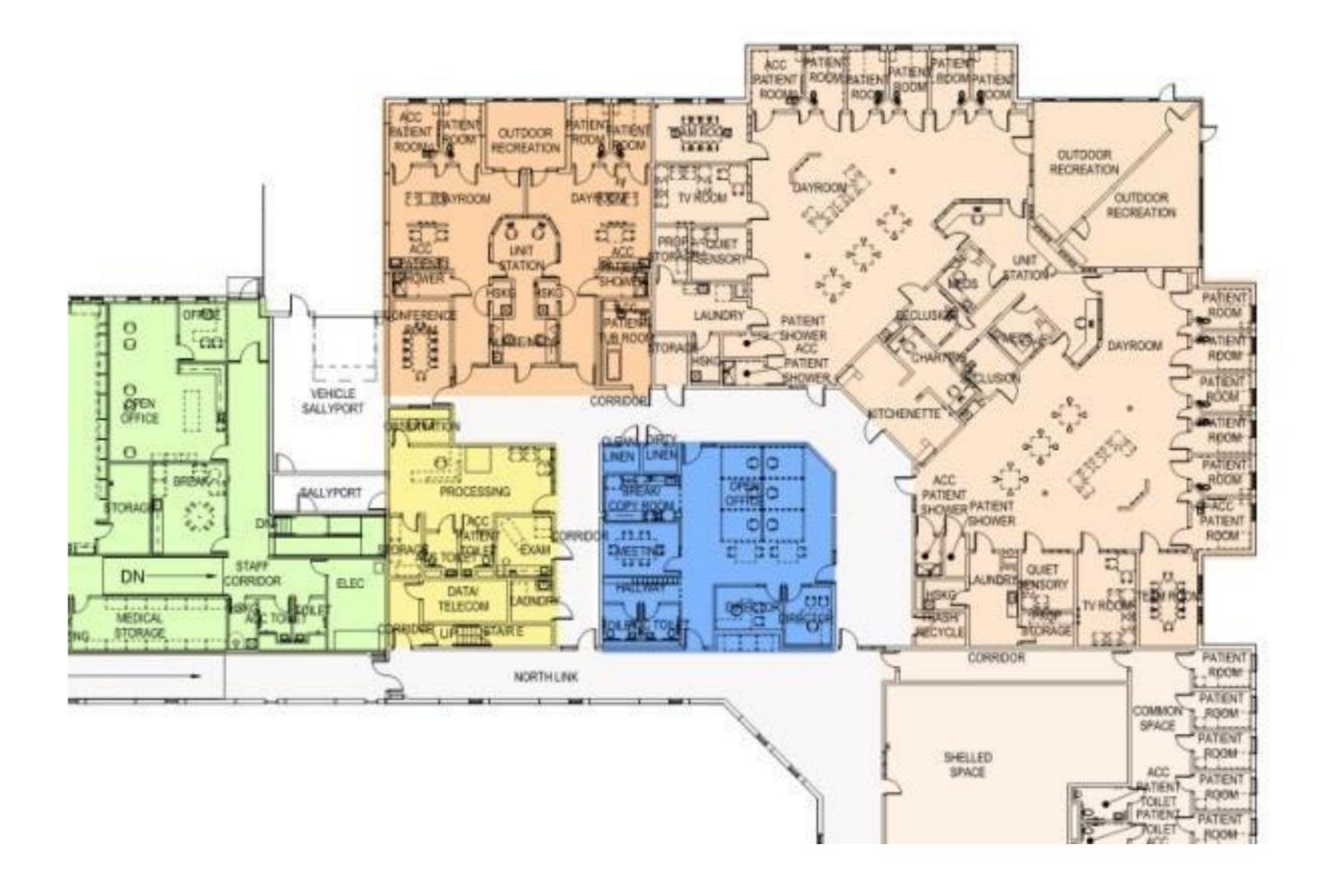
Introduce color themes and soft lighting to warm and calm the atmosphere.



Leverage daylighting, including solar tubes, to flood spaces with calming natural light.



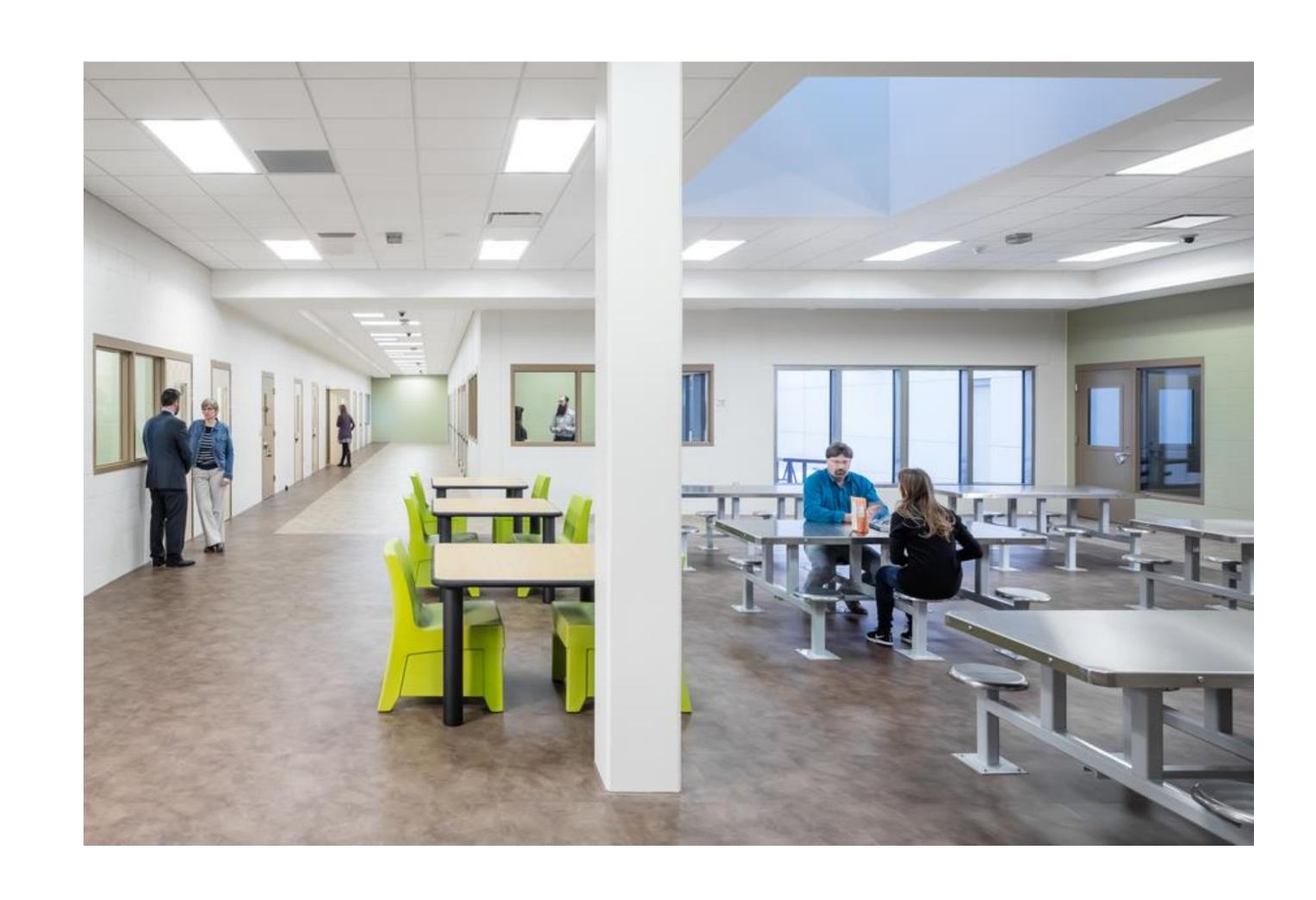
Variety of unit sizes to better stabilize population.



Design smaller housing units to reduce noise and improve the therapeutic atmosphere.



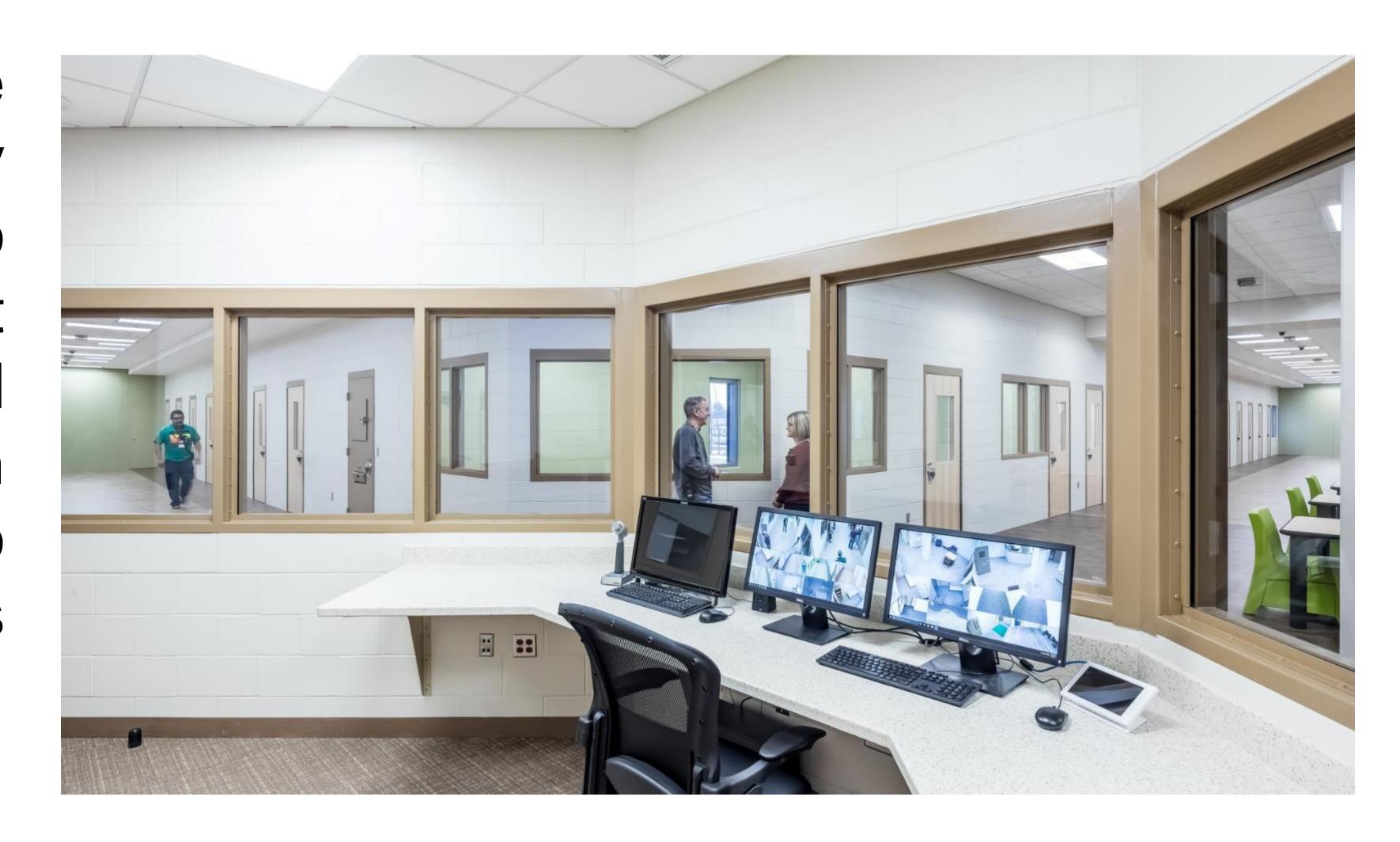
Improve sightline for all occupants with single-level living units for acute population



Locate TV room, group therapy rooms and common spaces near the nurse station to allow observation and intervention when needed.



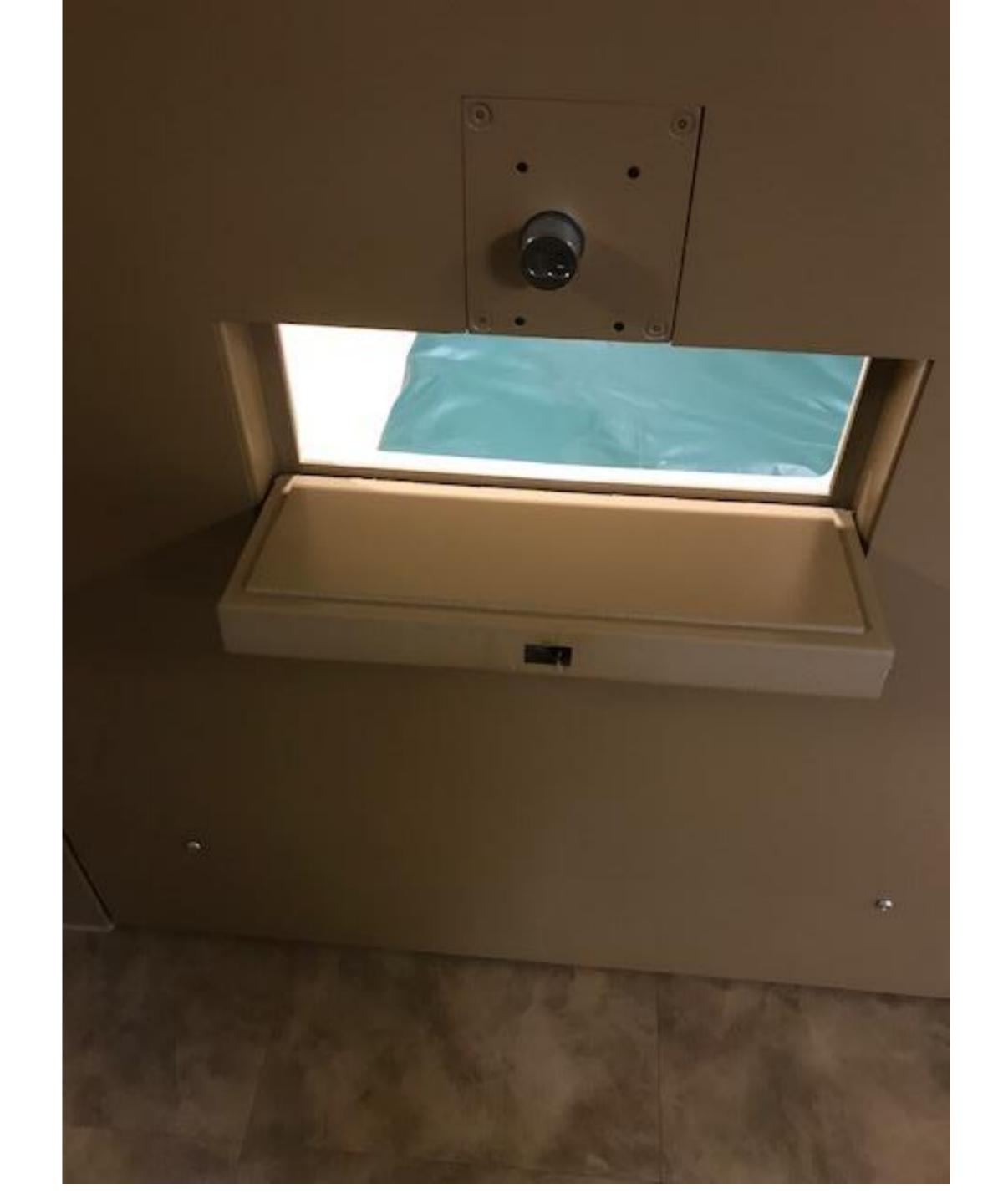
Leverage technology tools to complement operational and design strategies to protect patients and staff.

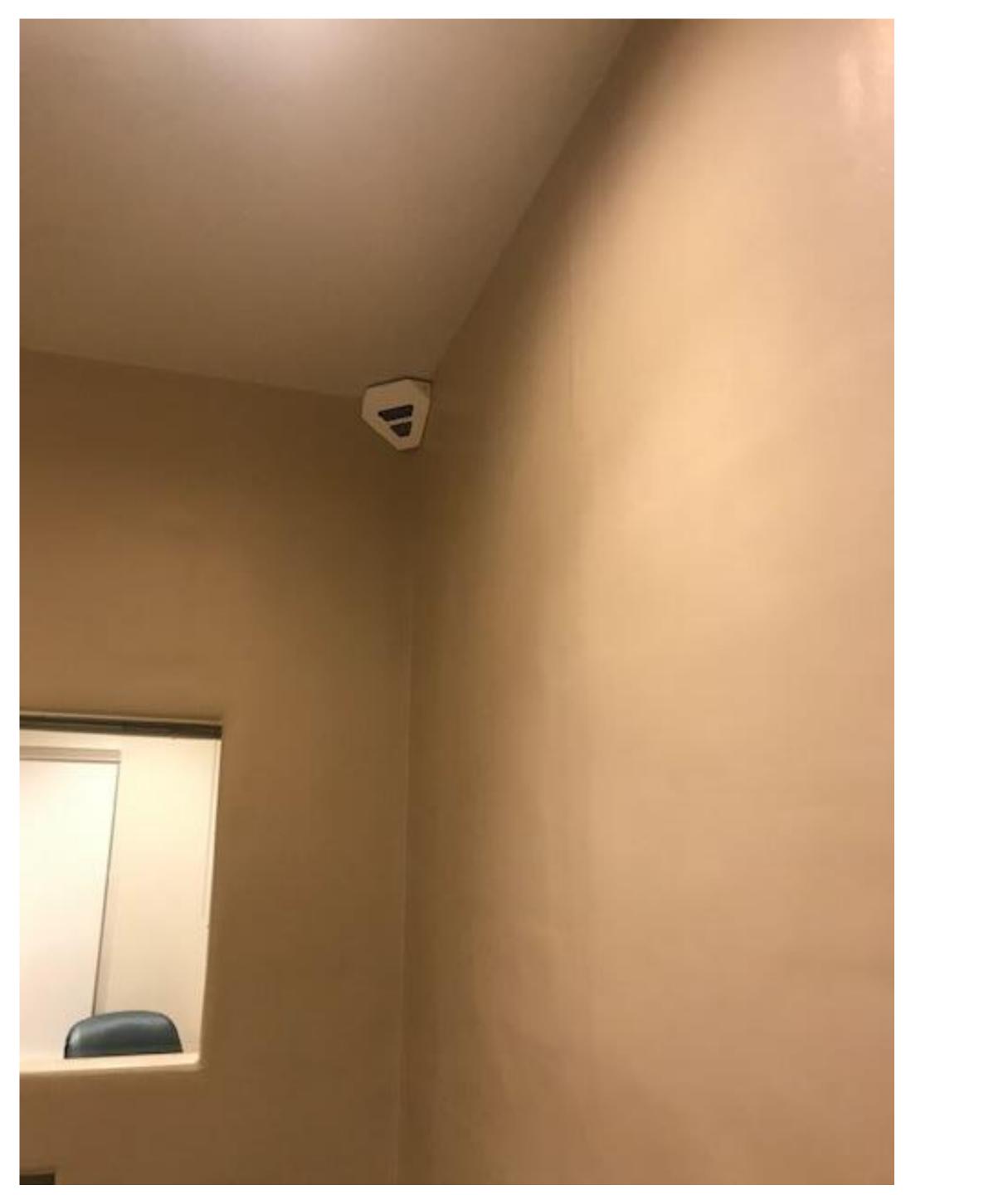


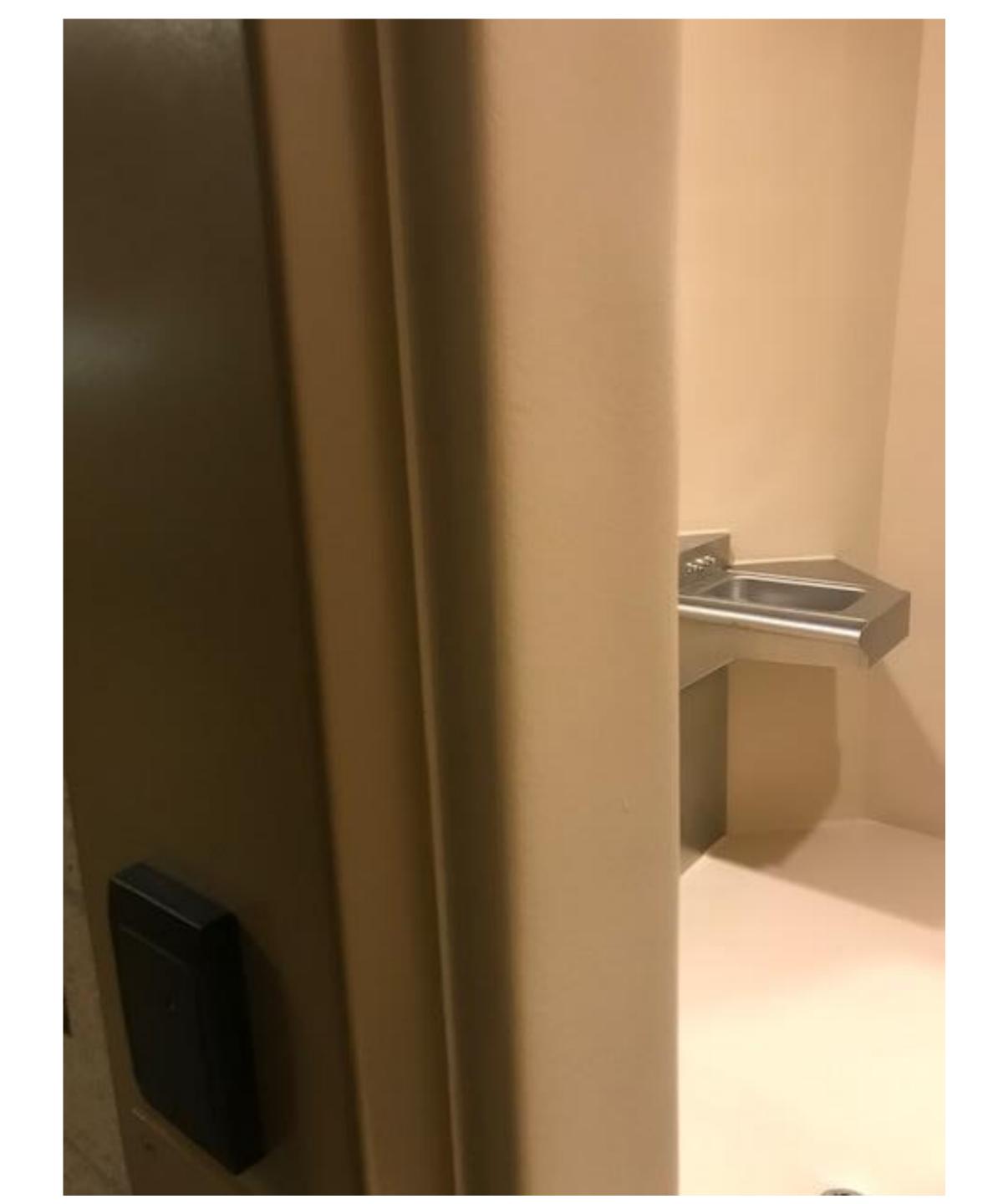




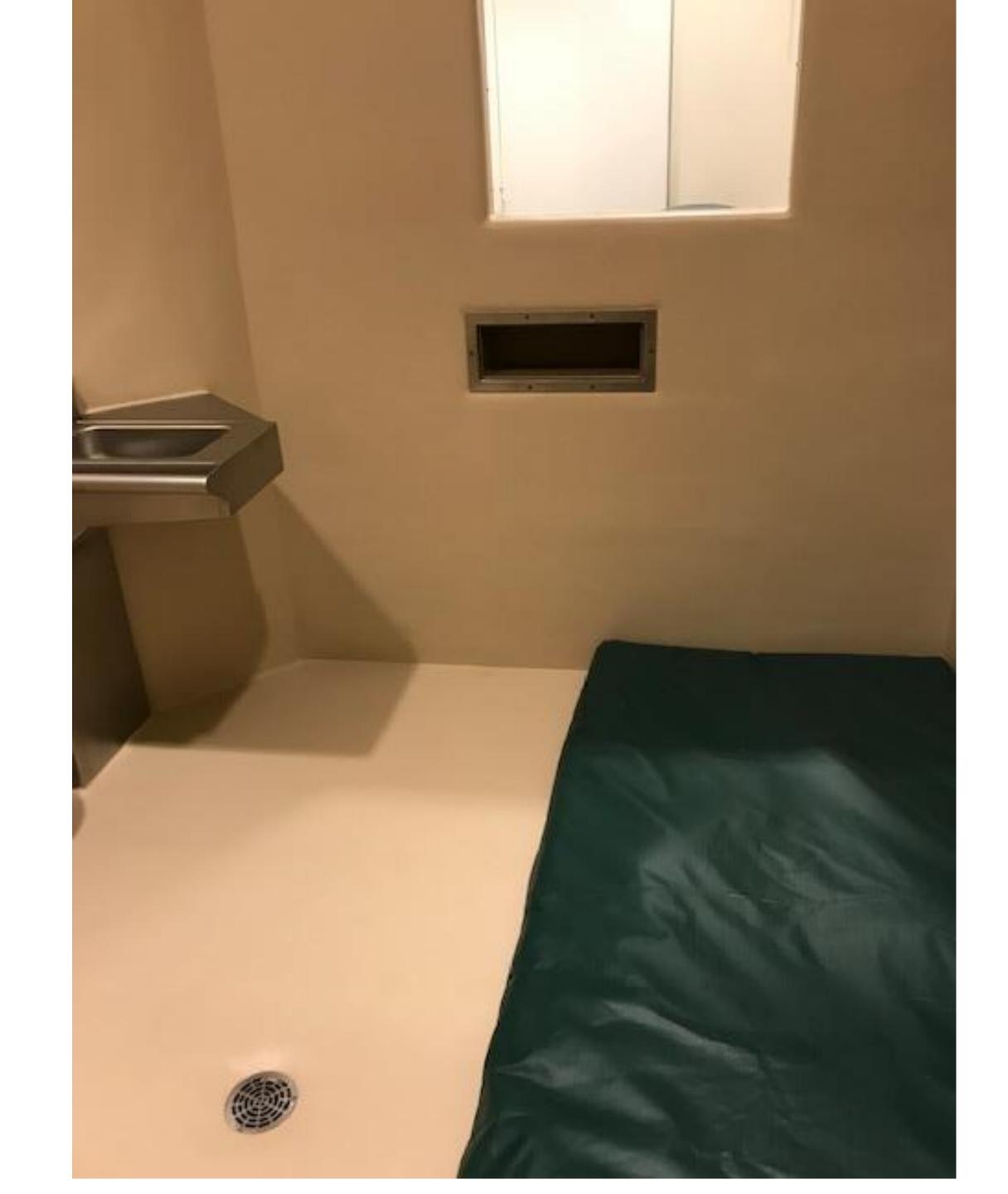
















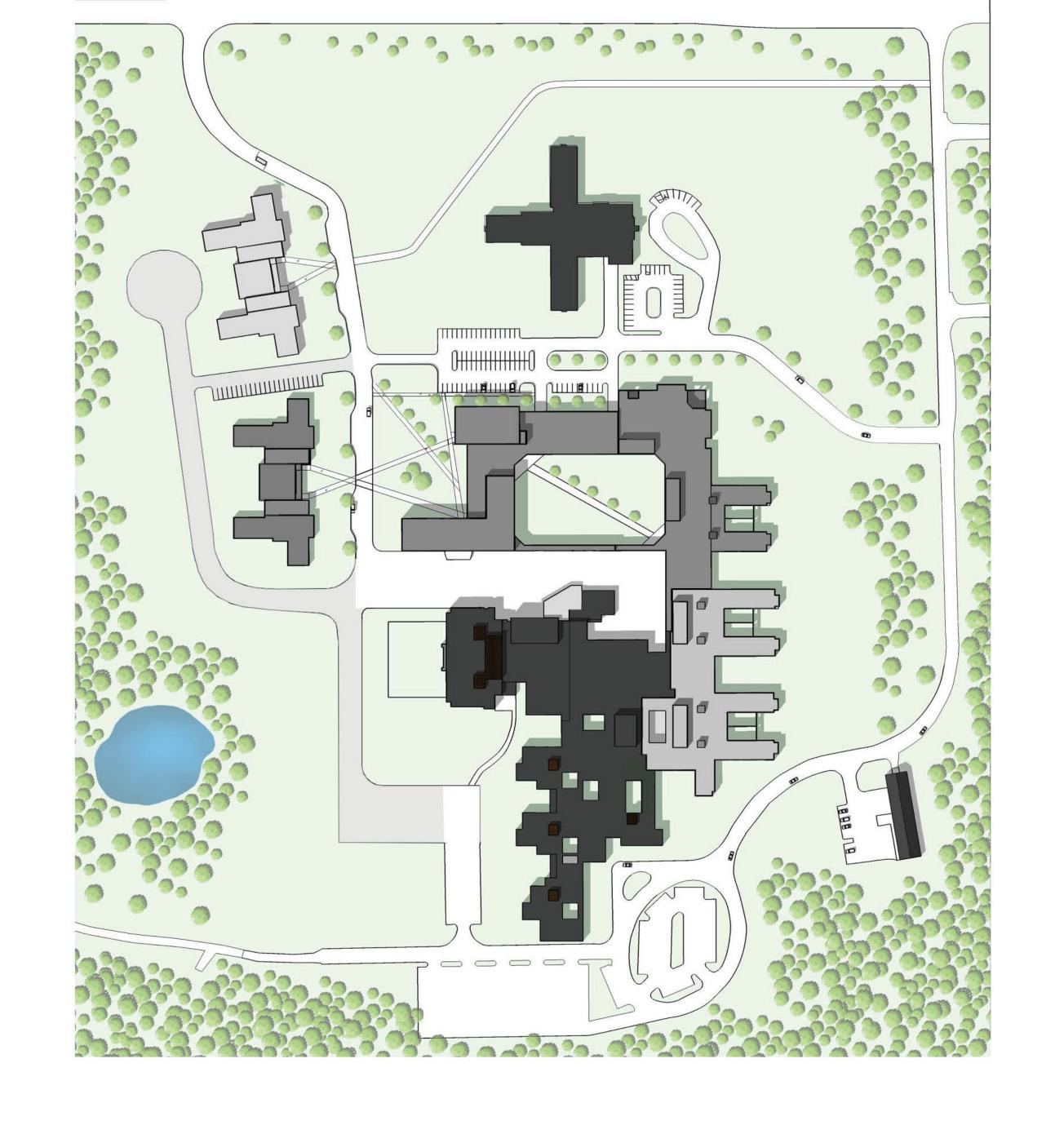




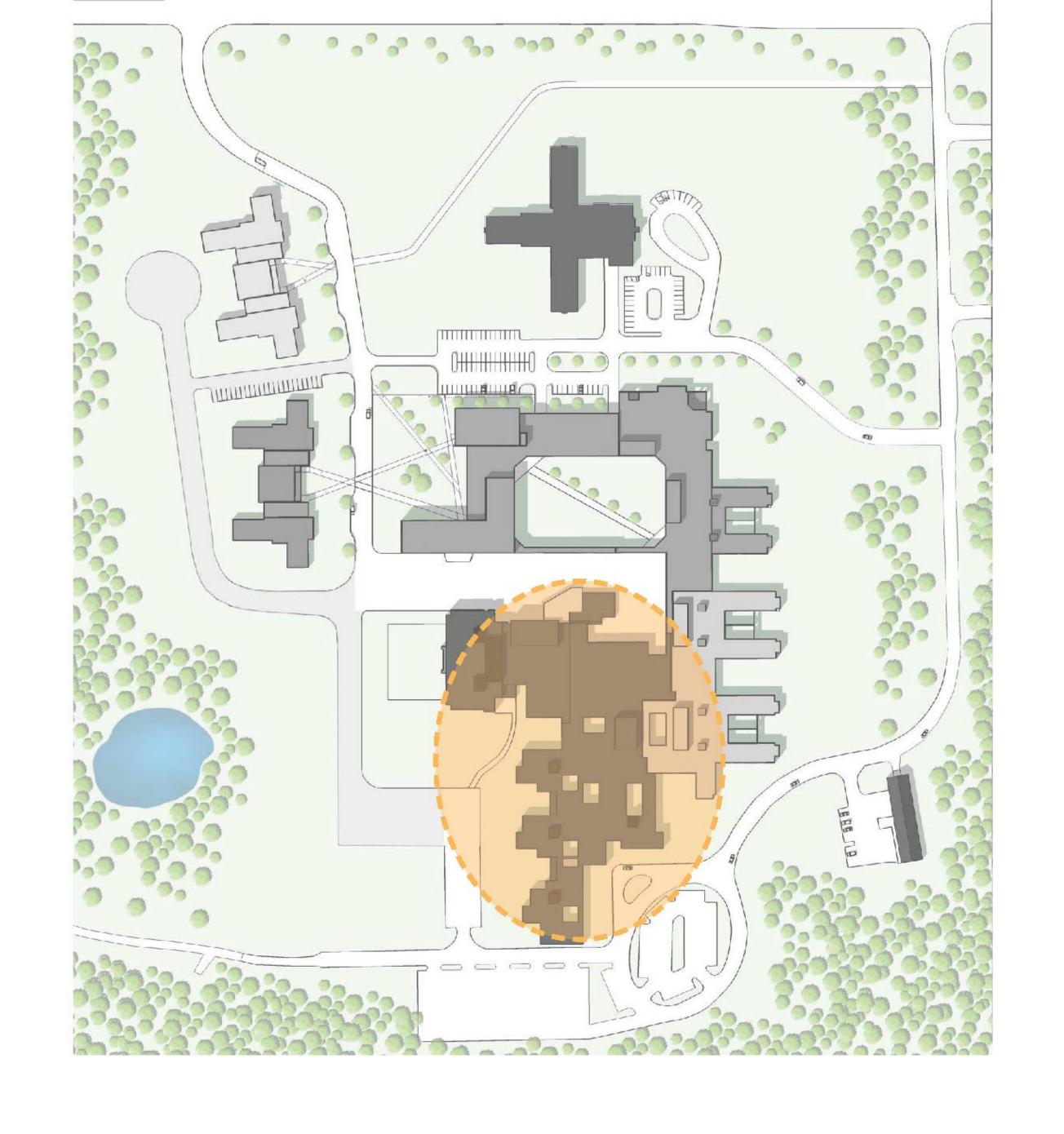




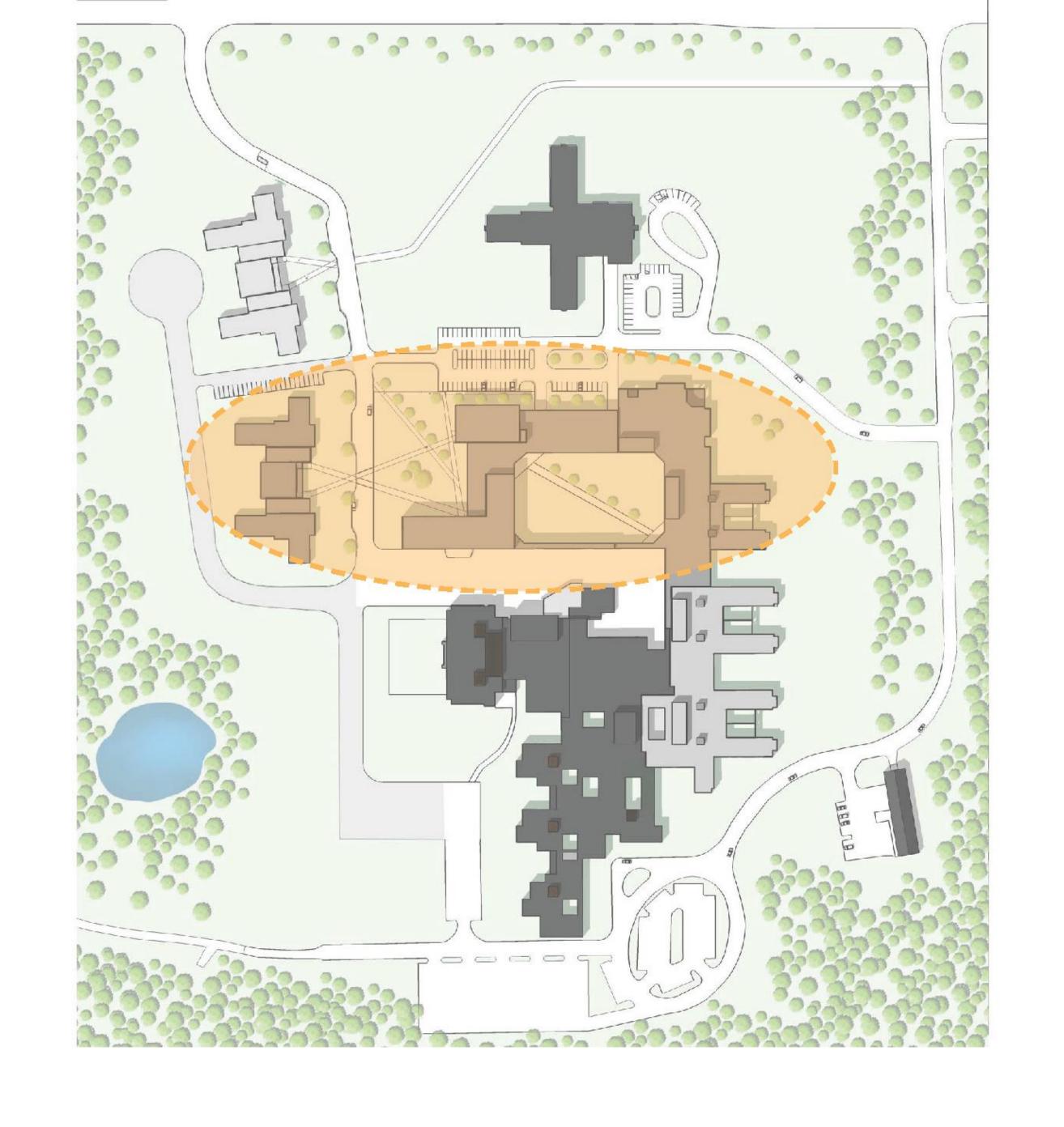
Overall Site



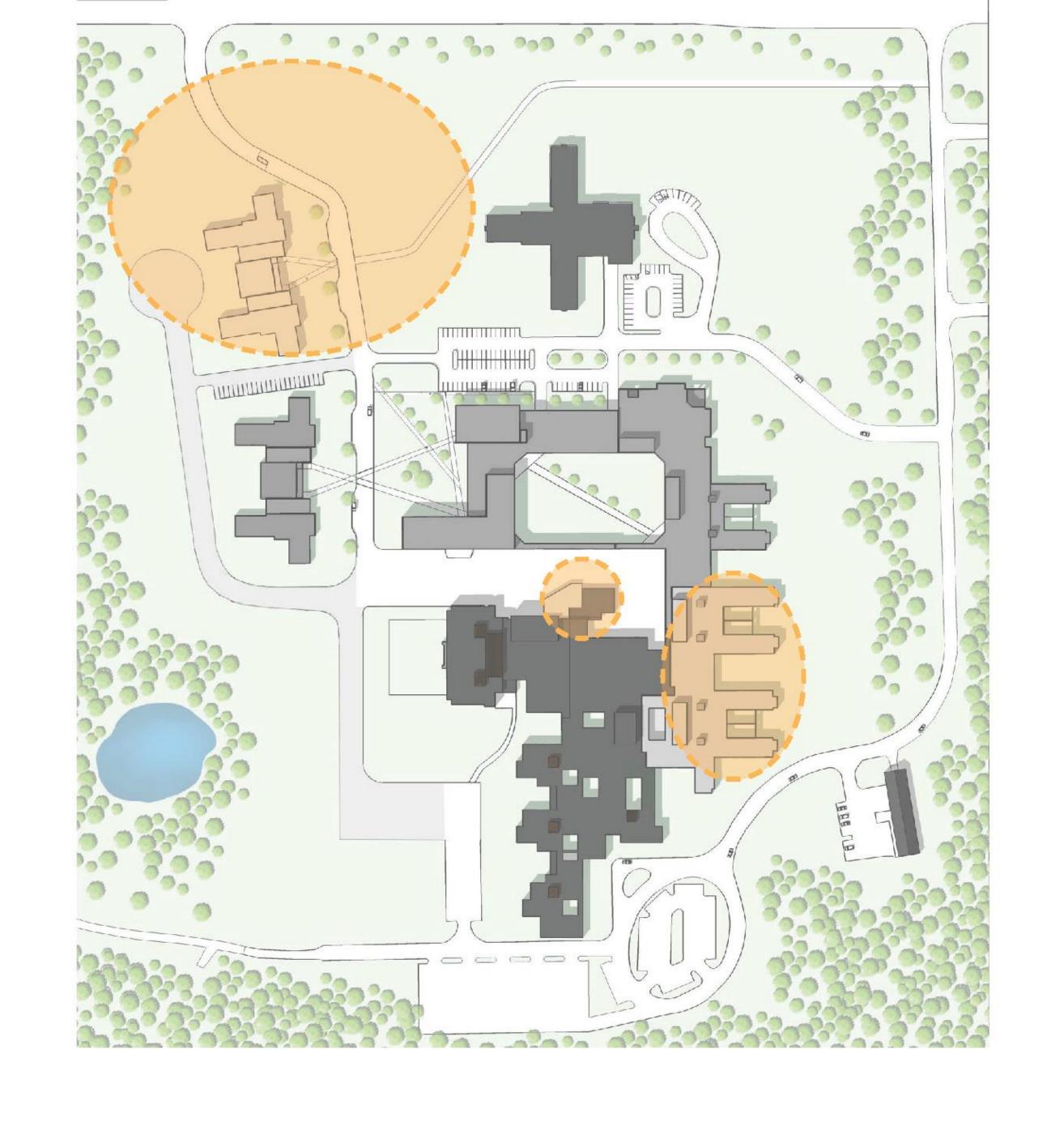
Existing MSH



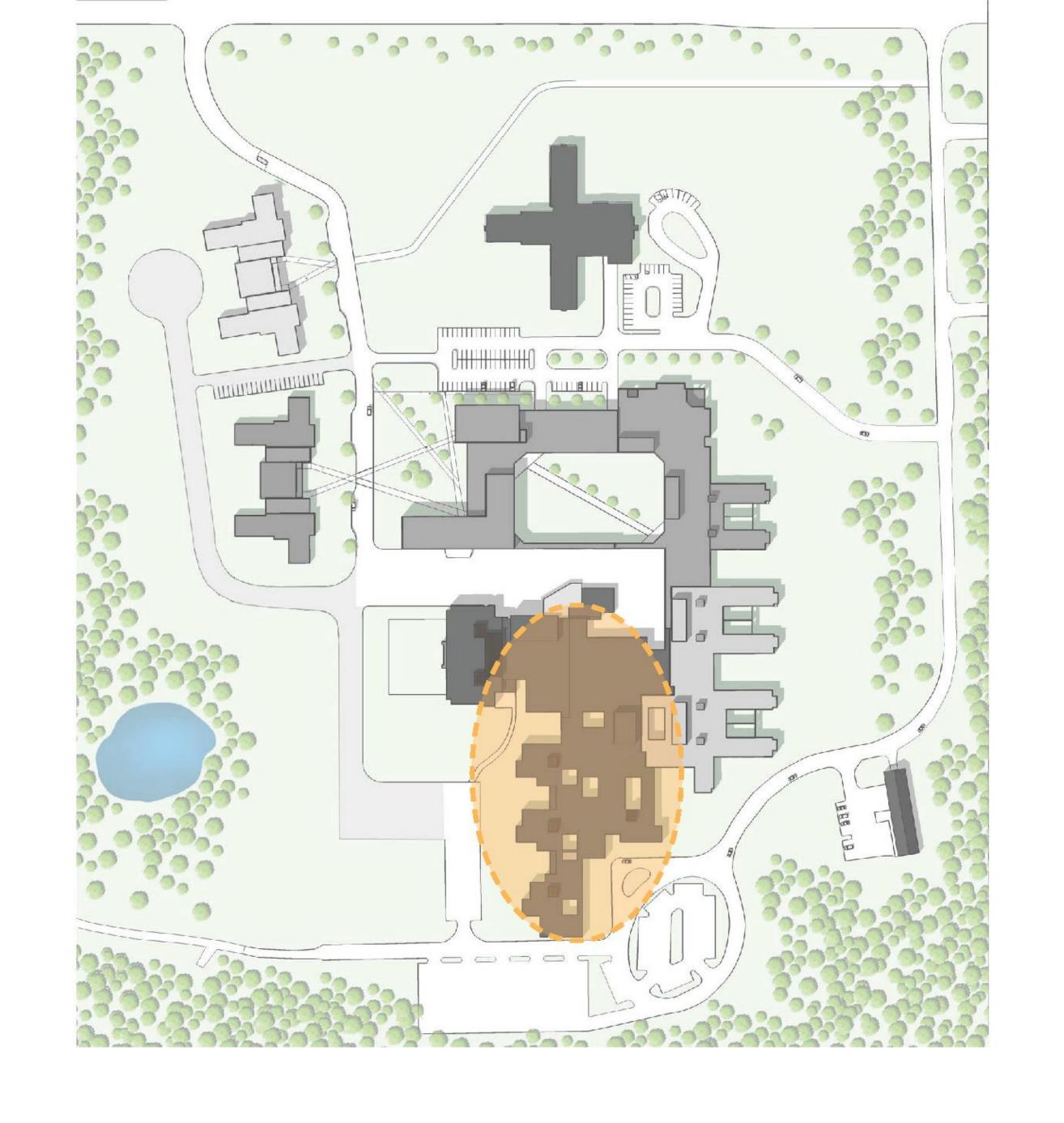
Phase 1



Phase 2



Phase 2



OME

NEWS

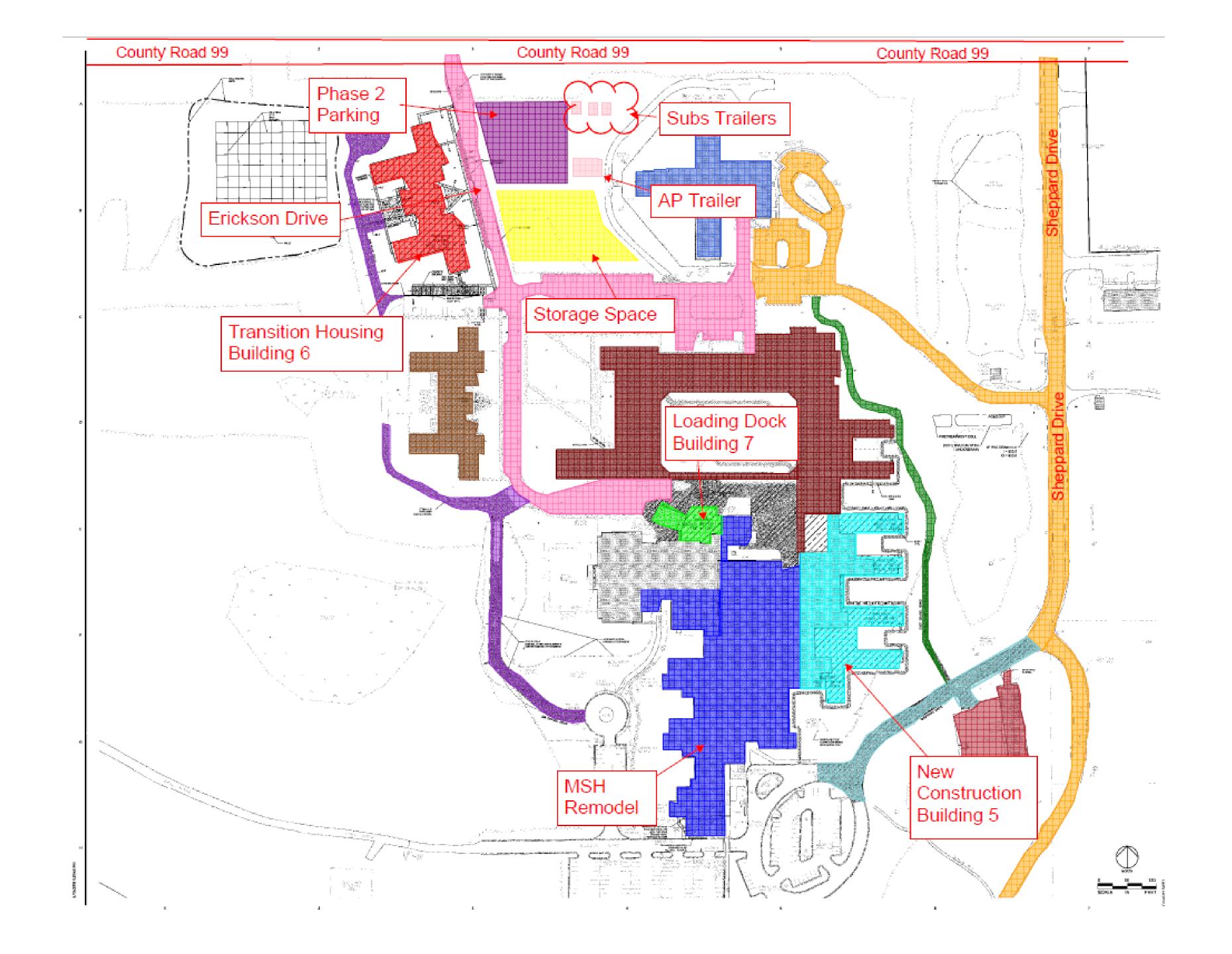
Demolition Begins at Minnesota Security Hospital

July 11th, 6:05 PM CDT by Lauren Andrego **Updated:** July 11th, 6:47 PM CDT



ST. PETER, Minn. -- The Minnesota Security Hospital in St. Peter recently started a \$70.2 million expansion and renovation, and demolition on the old living facilities began today.

Site Security

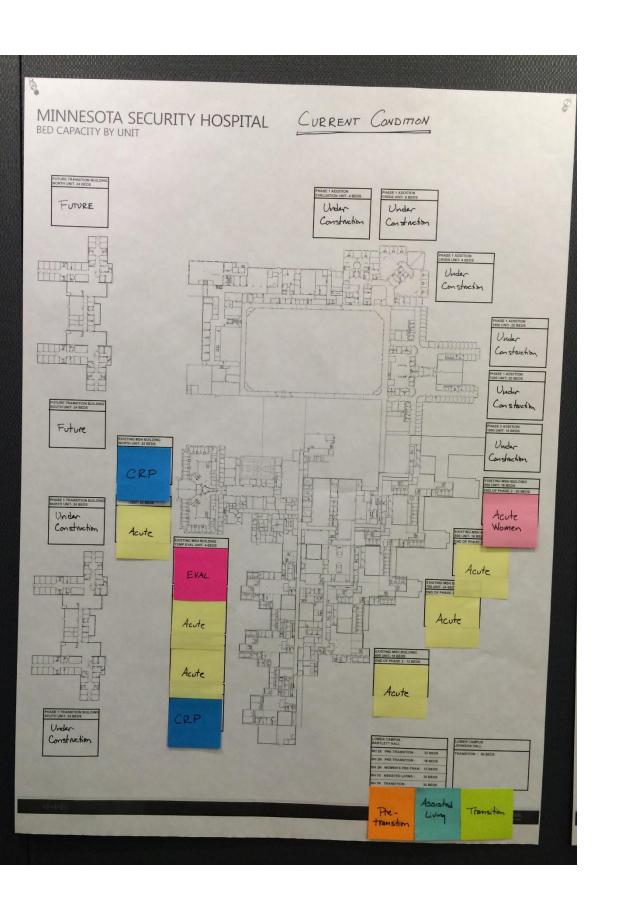


Site Security

Name:		Company:	Date:
Class A Tools			lass B Tools
Awl	Bench Grinder	Allen Wrenches (Hex)	Screwdriver (Phillips)
Bolt Cutter	Bench Grinder Wheel	Brazing Tip	Screwdriver Bits
Cable	Circular Saw	Brush	Socket (Ind. or Sets)
Chain (over 6")	Circular Saw Blade	Clamp "C"	Square
Chisel ("Cold")	Cut-Off Saw	Clamp (Welding)	Tap (Ind. or Sets)
Cutting Head (Torch)	Cut-Off Saw Blade	Chain (under 6")	Vise Grip
Compass	Hammer Drill	Caulking Gun	Wire Crimper
Divider	Hammer Drill Bits	Chisel (Wood)	Wire Stripper
Extension Cord	Hole Saw	Channel Lock	Wrench (Comb. End)
Extension Ladder	Hole Saw Bits	Diagonal Cutter	Wrench (Adjustable)
File	Portable Band Saw	Die (Ind. or Set)	Wrench (Impact)
Hack Saw Frame	Port. Band Saw Blade	Drill (Bench)	Wrench (Pipe)

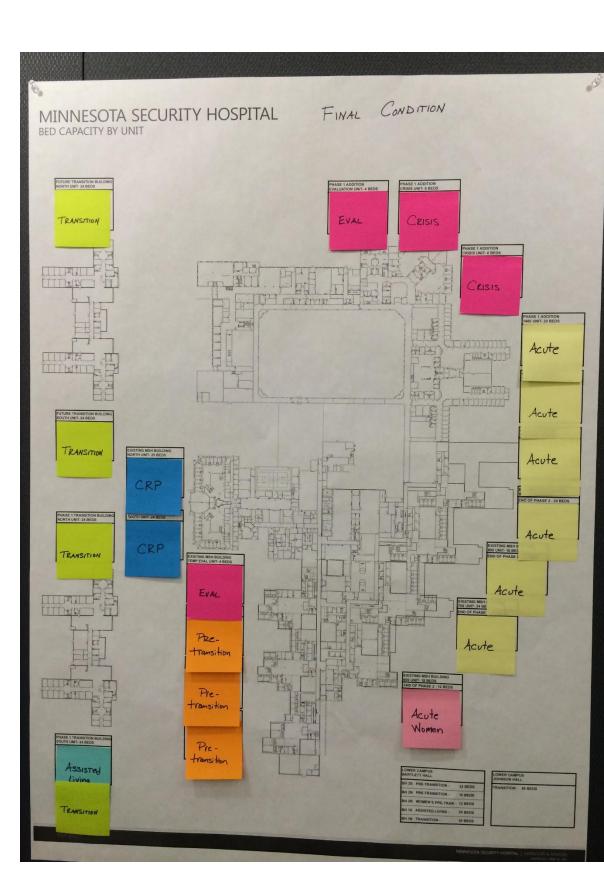
II.			
Hack Saw Blade	Portable Grinder	Drill (Portable)	
Jack (Mech. Hydraulic)	Port. Grinder Wheel	Flaring Tool (Tubing)	
Knife (Pocket)	Sabre Saw	Hammer (Ball Pein)	
Knife (Carpet)	Sabre Saw Blade	Hammer (Chipping)	
Knife (Kitchen)	Reciprocating Saw	Hammer (Claw)	
Knife (Utility)	Recip. Saw Blade	Hammer (Masonry)	
Knife (Replace. Blade)	Winch (electric)	Grease Gun	
Ladder (6' or over)	Winch (manual)	Impact Driver	
Lock Out		Ladder (Under 6')	
Padlock		Maul	
Padlock Keys		Measuring Tape	
Porta-Power		Pliers (Slip Joint)	
Rope		Pliers (Needle Nose)	
Screwdriver (Torx)		Pliers (Lineman)	
Screwdriver (Security)		Propane Torch	
Scraper		Propane Tanks	
Scraper Repl. Blade		Pry Bar	
Scribe		Punch	
Sheet Metal Snip		Putty Knife	
Welding Cable Rule (Measurin		Rule (Measuring)	
Power Hammer: Special form to be filled in at entry/exit		t Screwdriver (Slot)	

Phasing Bed Counts









	Historical	
Unit (Old name)	Bed Count	
Hickory (North CRP)	25	
Fraser (South)	24	
Elm (Admissions)	4	
Aspen (100)	13	
Swing (100-200)		
Birch (200)	22	
Swing (200-300)		
Cedar (300)	24	
Ironwood (600)	18	
Juniper (700)	24	
Linden (800)	16	
Maple (900)	18	
Swing (900-1000)		
Oak (New New)	Const.	
Pine (New New)	Corist.	
Swing (1100-1200)		
Redwood (New)	Corrst.	
Spruce (New)	Corist.	
Tamarack (New)	Corist.	
Tamarack (New)	Corist.	
Willow (New)	Corist.	
Willow (New)	Corrst.	
Forest (New 1/17)	Corrst.	
Prairie (New)	Corrst.	
BH2S	32	
BH2N (Men & Women)	30	
BH1S	19	
BH1SS	1	
BH1N	30	
Johnson	56	

304.6

-31.4

Totals

Phase 2A			
Average Daily Census CY2017	Difference	Budgeted Bed Count FY18	Licensed
26.7	1.7	25	25
23.7	-1.3	25	25
3.6	-0.4	4	4
15.1	1.1	14	14
18.8	-5.2	24	28
18.7	-1.3	20	28
Const.	Const.	Const.	Cerist.
Const.	Const.	Const.	Censt.
Const.	Const.	Const.	Cerist.
Const.	Const.	Const.	Cerist.
Const.	Const.	Const.	Cerist.
Const.	Const.	Const.	Cerist.
Const.	Const.	Const.	Const.
Const.	Const.	Const.	Cerist.
23	3	20	20
21.4	1.4	20	20
12.9	-3.1	6	6
**	**	6	6
**	**	2	2
**	**	2	2
41.3	-4.7	46	48
Const.		Const.	Cerist.
31.7	-8.3	40	40
29.8	-2.2	32	36
16.1	-3.9	19	32
**		1	0
21.8	-8.2	30	32
Demo		Demo	Demo

Phase 2B		
Completed beds	Potential beds	
25	25	
25	25	
4	4	
Const.	Censt.	
Const.	Corist.	
Const.	Cerist.	
15	15	
8	10	
22	22	
1 9	19	
3	3	
17	17	
14	14	
3	3	
17	17	
20	20	
6	6	
6	6	
2	2	
2	2	
48	48	
48	48	
40	40	
36	36	
32	32	
	0	
MSOP	MSOP	
Demo	Demo	

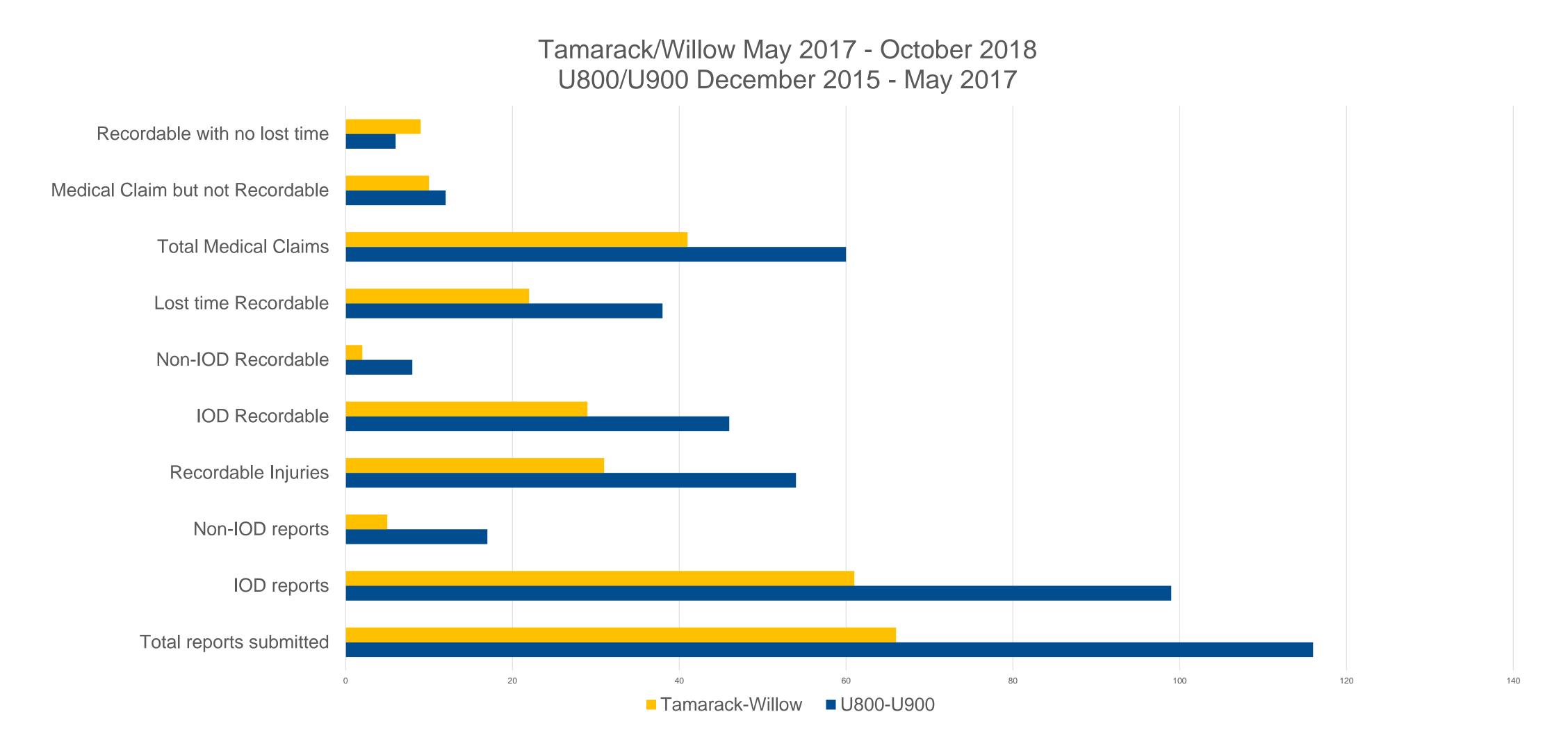
Final			
Completed beds	Potential beds		
25	25		
25	25		
4	4		
13	13		
7	7		
20	20		
7	7		
20	20		
15	15		
8	10		
22	22		
19	1 9		
3	3		
17	17		
14	14		
3	3		
17	17		
20	20		
6	6		
6	6		
2	2		
2	2		
48	48		
48	48		
MSOP	MSOP		
Demo	Demo		







Employee Injury Data

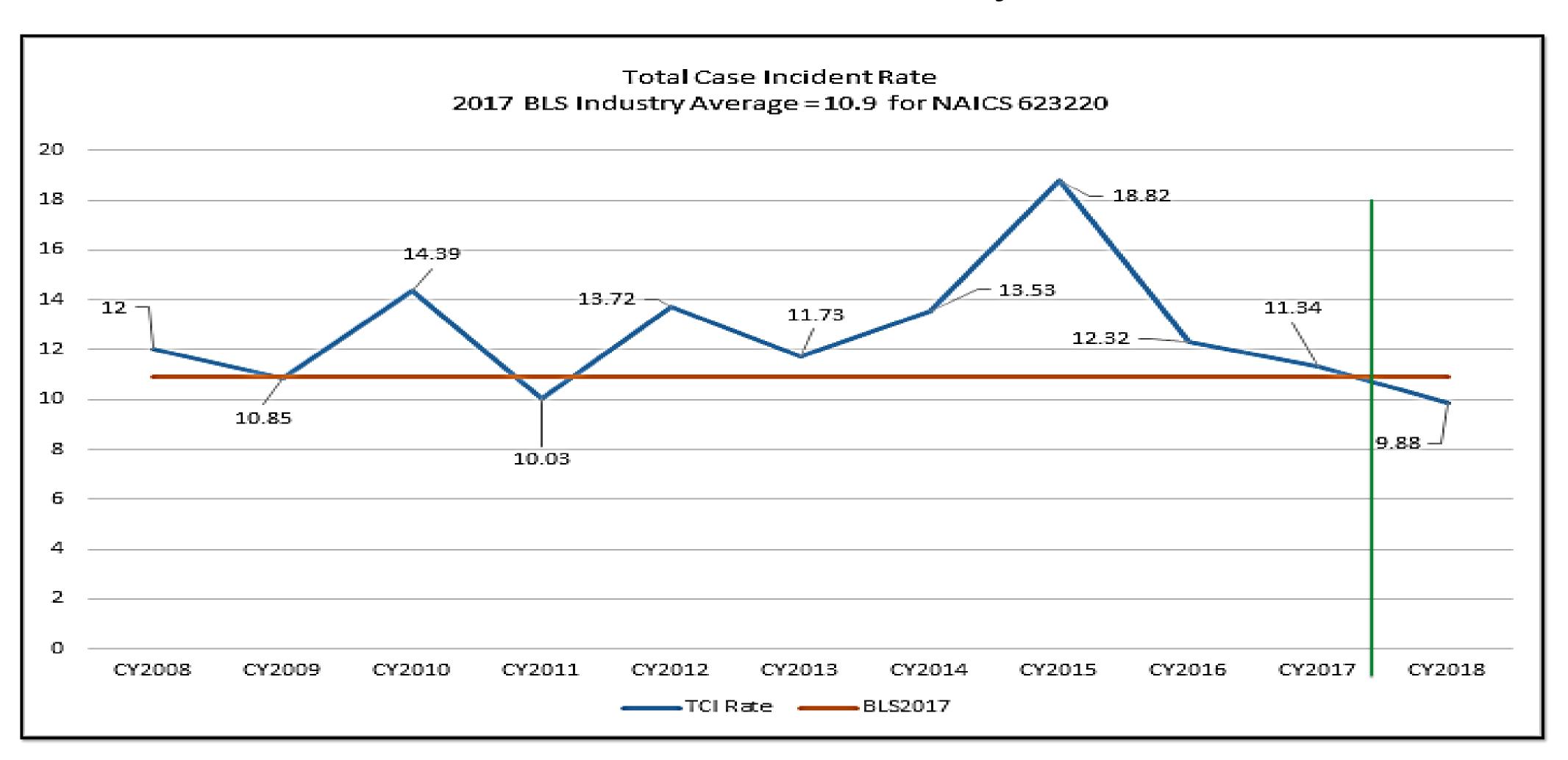


Employee Injury Data

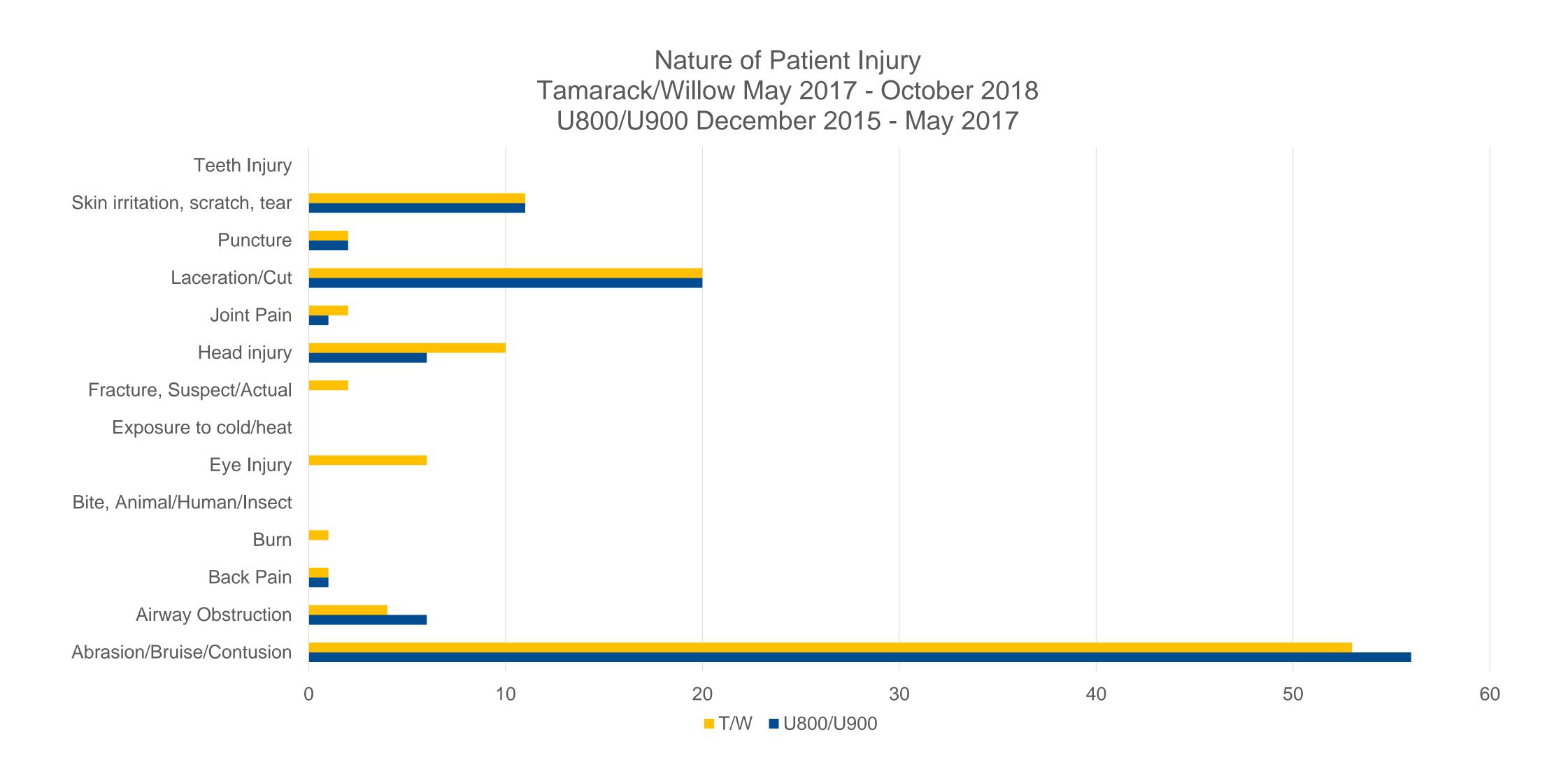
	U800-U900	Tamarack-Willow
Total reports submitted	116	66
IOD reports	99	61
Non-IOD reports	17	5
Recordable Injuries	54	31
IOD Recordable	46	29
Non-IOD Recordable	8	2
Lost time Recordable	38	22
Total Medical Claims	60	41
Medical Claim but not Recordable	12	10
Recordable with no lost time	6	9

Staff Injury Data

Total Case Incident Rate of Recordable injuries for the division



Patient Injury Data



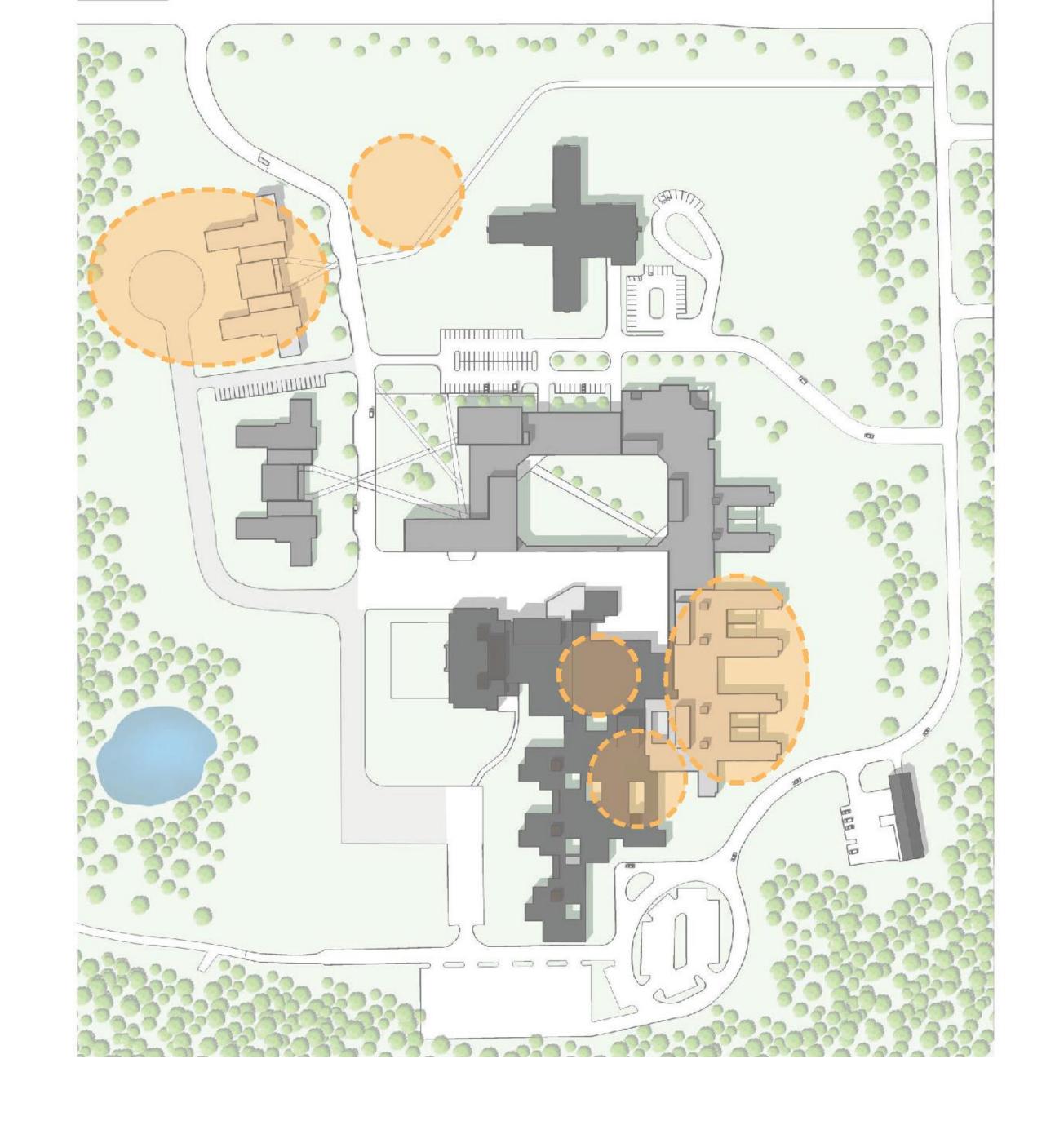
Construction Joe



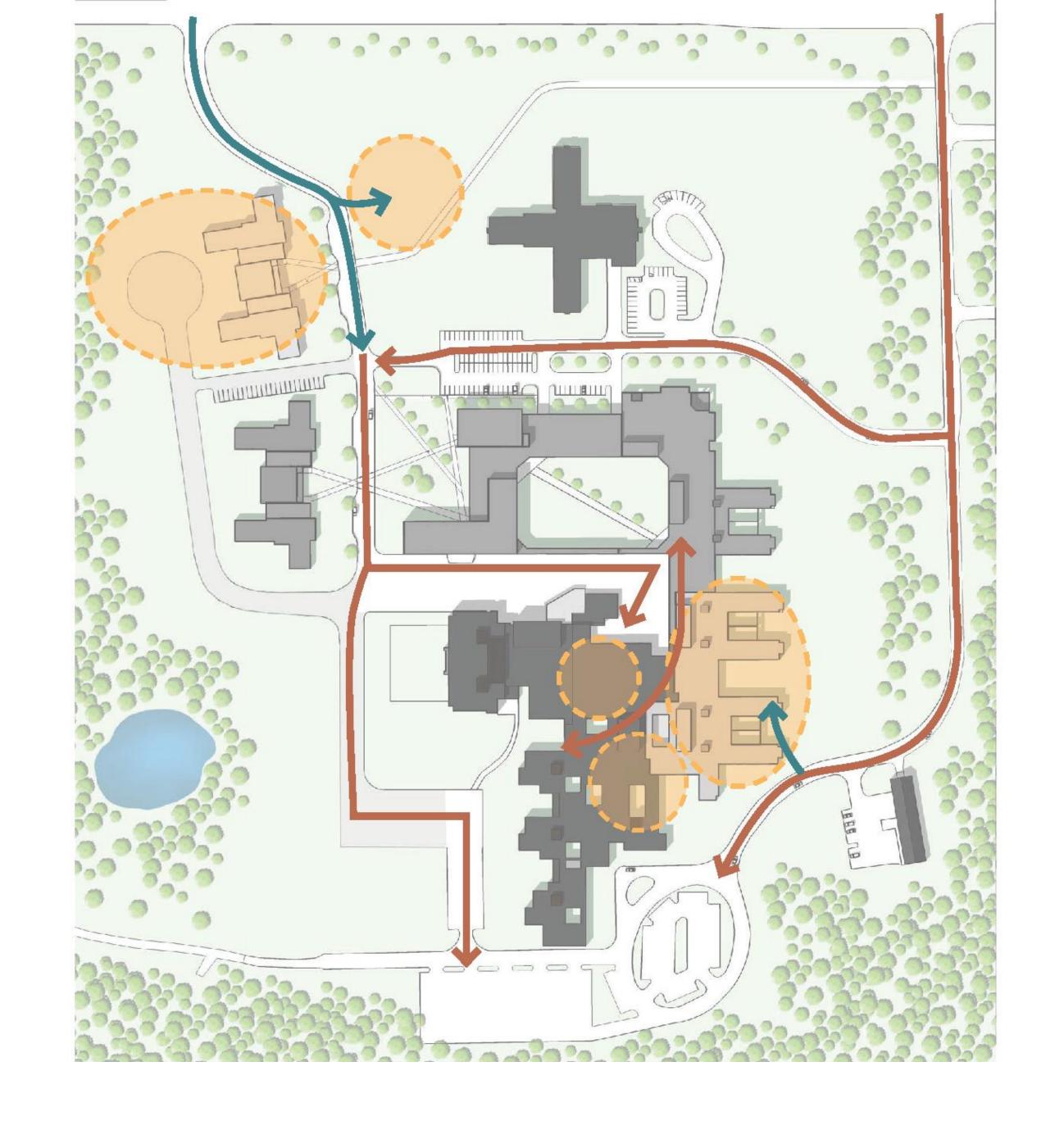
Construction Joe wants you to know..... What's happening! 01/18/19

- Area of former Units 600-700-800 & 900. Precast concrete walls placement for all
 new units is now complete!! 1 panel has been left out intentionally to allow for
 equipment and material access. Crews have begun work on finish roofing, work on
 parapets and penthouses is ongoing. In building underground plumbing and
 electrical is nearing completion. Approximately 50% of concrete floor is complete,
 and interior block walls are beginning to be placed.
- MSH Canteen, Woodshop, East Shop, ATS, Old Gym and Hub: Installation of sprinkler piping has begun. No other progress @ this point as we await completion of design and bids for new HVAC equipment.
- MSH 400 area, excluding Administrative Office spaces. Temporary walls remain
 by the holding room and hallway near Hub entrance. Please remember during your
 day-to-day activity and movement that the MSH building center corridor (between
 Cedar Unit and the previous Unit 700) is the primary egress point. Demolition of
 this area continues.
- We have received additional funding to replace all HVAC equipment for all of the 1982 MSH building. While this is a huge benefit, this will delay completion of some areas. Access to these areas is strictly for <u>Maintenance and Construction</u> <u>Personnel ONLY</u>. Thank you for your patience.
- Security Services staff members will continue to monitor areas and respond to alarms.
- Prairie View site, Transition Services Housing Unit #2: Electrical and mechanical work, as well as painting and installation of ceramic tiles, is mostly complete. Floor mitigation continues in preparation for finish flooring.

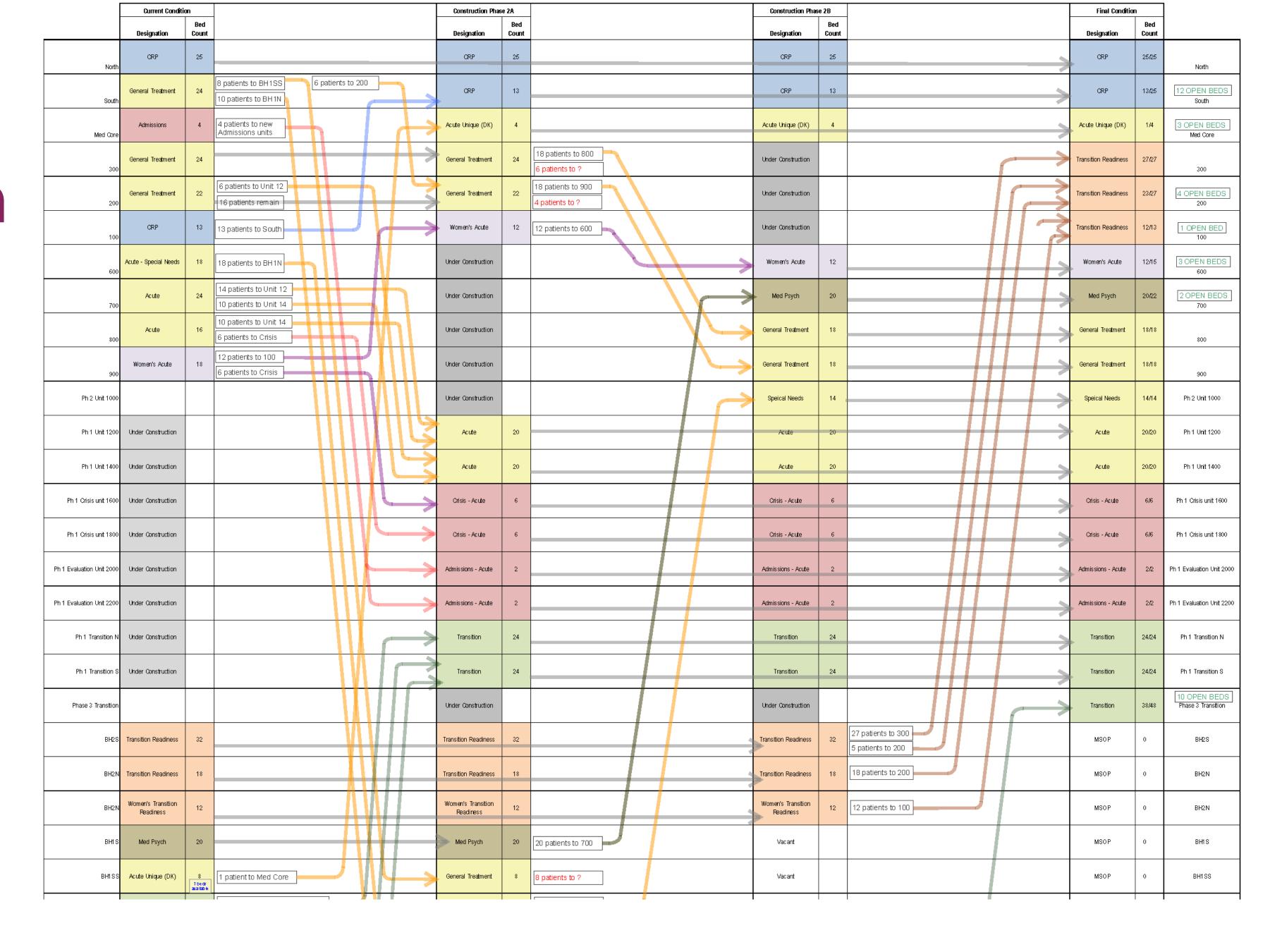
Construction Communication



Construction Communication



Patient Move-in



Thank you!

Questions?