

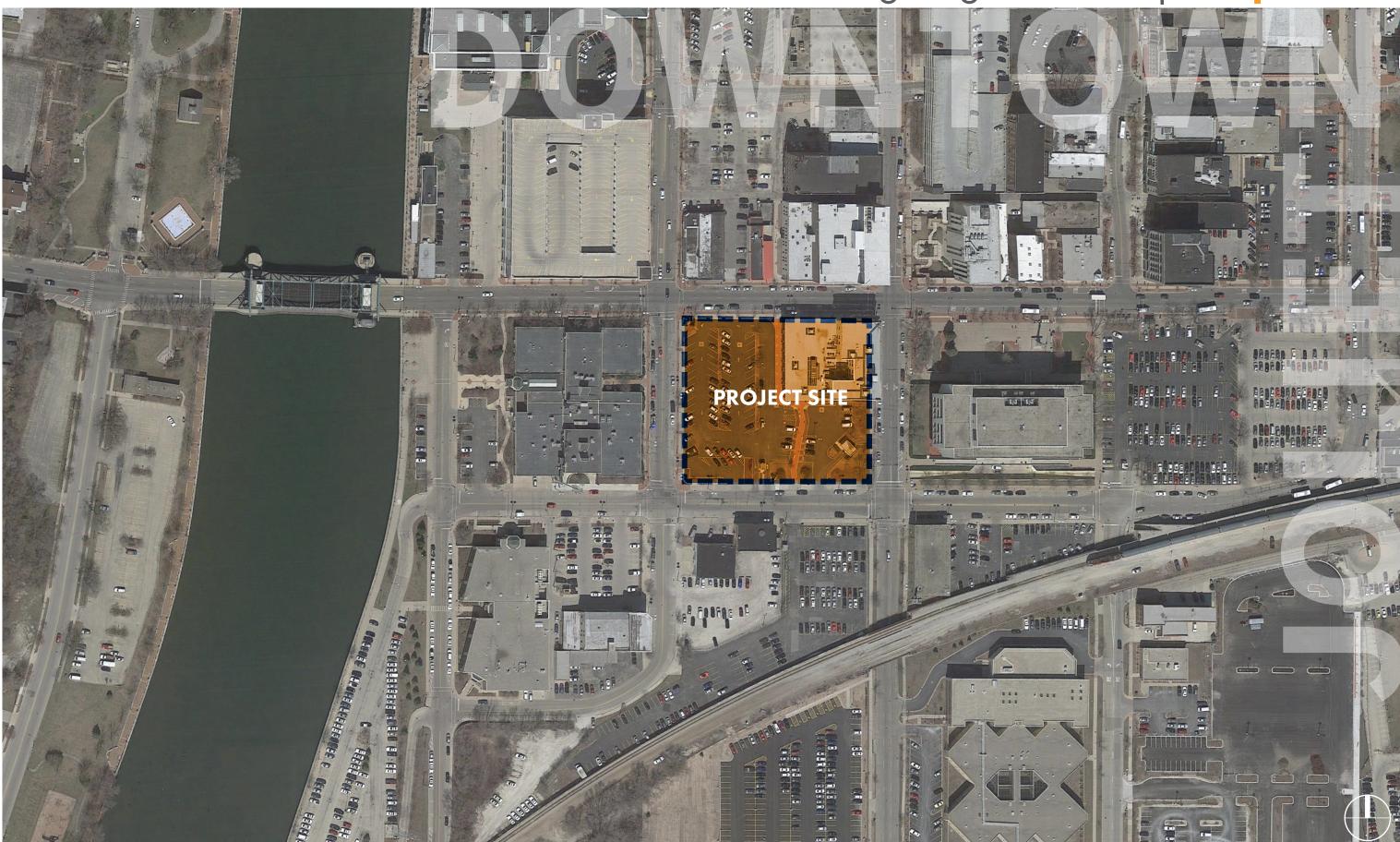
WILL COUNTY JUSTICE CENTER | JOLIET, IL

SCHEMATIC DESIGN PRESENTATION 09.20.2016

Component	10-Sto Optio	
	Total DGSF	Staff
1. Courtrooms	119,274	0
1A. Criminal and Traffic Courtrooms	63,309	0
1B. Basic Traffic Courtroom	4,729	0
1C. Civil Courtrooms	29,492	0
1D. Family Courtrooms	21,745	0
2. Judicial Chambers	22,127	44
2A. Judicial Chambers - Criminal and Traffic	11,219	22
2B. Judicial Chambers - Civil	5,454	11
2C. Judicial Chambers - Family	5,454	11
3. Circuit Court Clerk	28,496	176
3A. Circuit Court Clerk Executive Office	1,318	5
3B. Criminal and Traffic Divisions	6,156	56
3C. Civil and Family Divisions	3,297	33
3D. Customer Service and Finance Divisions	8,100	50
3E. Circuit Court Clerk Support	9,626	32
4. Chief Judge and Court Administration	2,919	9
5. Alternate Dispute Resolution	3,024	4
6. Jury Commission	9,308	8
7. Grand Jury	2,829	0
8. Law Library / Self-Help Center	3,409	8
9. Court Support	10,948	81
9A. Shared Staff Conference Rooms	1,938	0
9B. Court Reporters, Bailiffs and Interpreters	5,704	81
9C. Other Court Support	2,225	0
9D. Orders of Protection	1,081	5

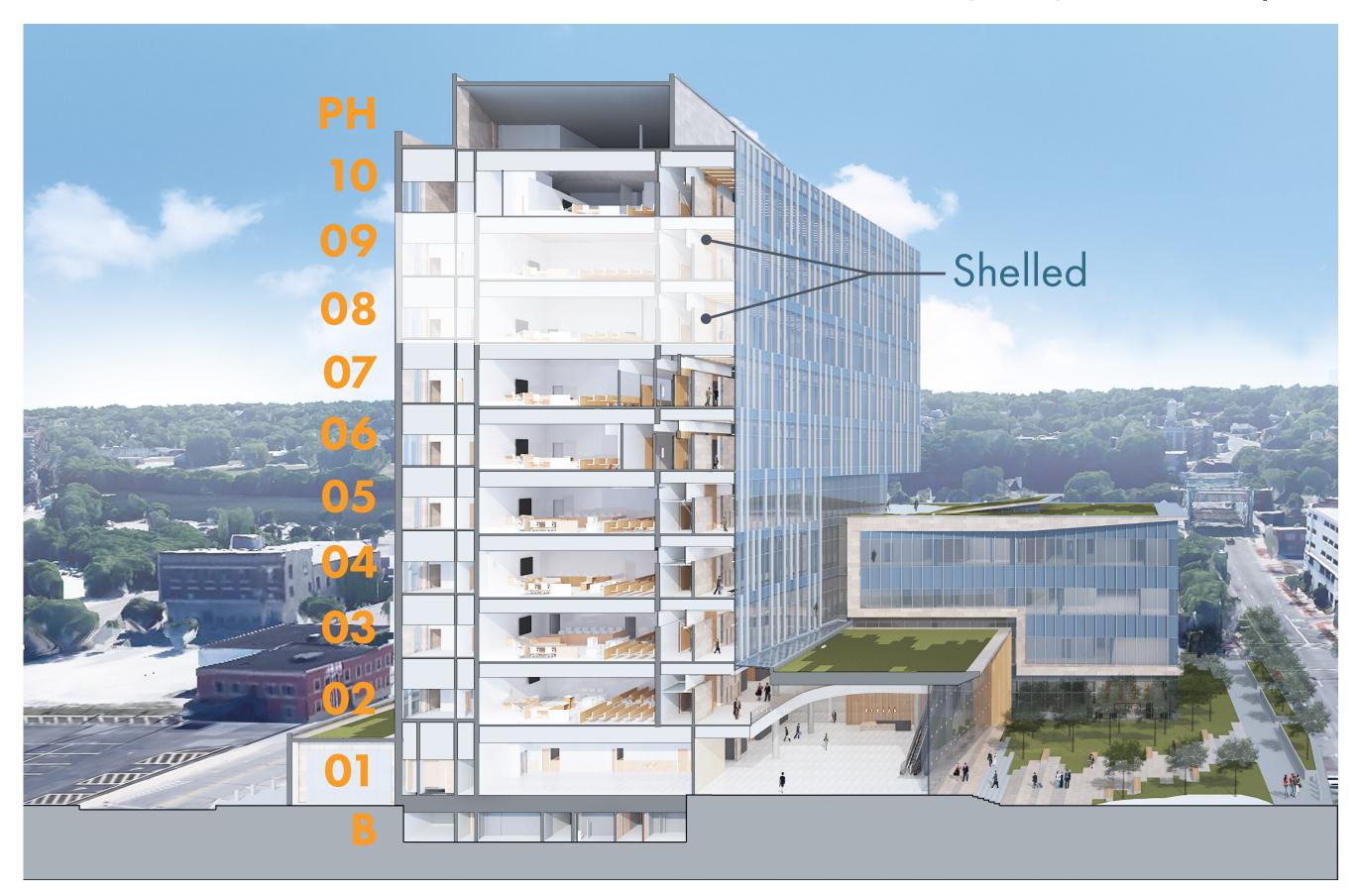
Component	10-Sto Optio	
	Total DGSF	Staff
10. Sheriff's Office	21,617	53
10A. Vehicular Sallyport	4,208	0
10B. Central Holding Security Control	581	0
10C. Secure Holding	14,176	20
10D. Civil Process - NOT IN BUILDING	0	0
10E. Sheriff's Administration - NOT IN BUILDING (Sheriff'	0	0
10F. Courthouse Staff Support	1,917	33
10G. Courthouse Security Control Room	<i>736</i>	0
11. State Attorney's Office	1,814	9
11A. State Attorney's Office		
11B. Drug / Mental Health / Veteran's / Adult Redeploy (0	9
11 State Attorney's Courthouse Office Space	1,814	0
12. Public Defender	1,607	1
12A. Public Defender's Office		
12 Public Defender's Courthouse Office Space	1,607	1
13. Adult Probation	3,787	7
13A. Adult Probation		
13B. Probation Courthouse Office Space	<i>3,787</i>	7
14. Building Support	21,915	13
14A. Facility Services	5,413	13
14B. Shared Building Support	16,503	0
14C. Building Parking	0	0
Total Departmental Gross Area (DGSF)	253,072	413
Building Gross Factor	116,583	47%
TOTAL BUILDING GROSS SQUARE FEET	369,655	

Building Organization | Project Site





Building Organization | Section





Site Plan - Ground Level

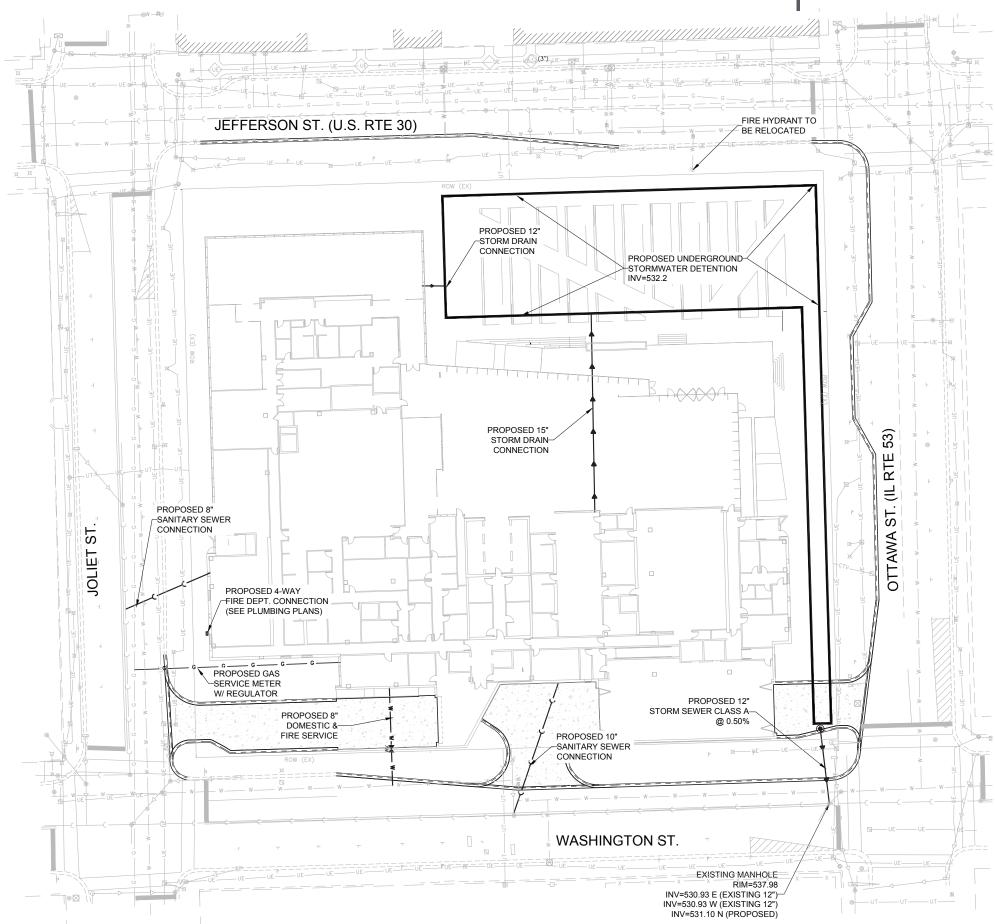


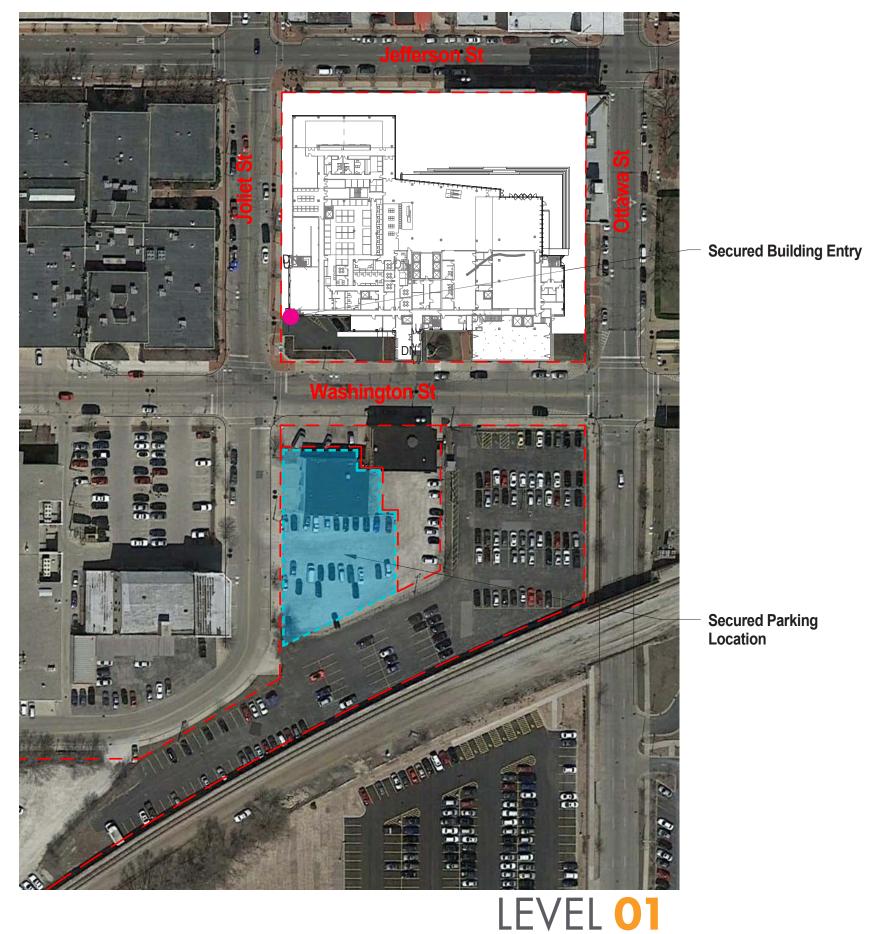
Callout Legend - Ground Level

- 1 Precast Concrete Monumental Stair (18" tread | 6" riser)
 - ADA Access Jefferson Street
- (5% slope or less)
- 3 Stainless Steel Handrail (34"-38" height)
- Monument Sign Location (sign attached to plinth wall)
- Precast Concrete and Wood Seat Walls
 (var ous lengths from 12' 24' length x 18 inch height)
- Precast Concrete Unit Pavers (bituminous setting bed over structural concrete base)
- 8 Landscape Beds (perennial groundcover, grasses, forbs, shrubs and trees)
- Modular Precast Concrete Infiltration Trench (public right-of-way)
- Stainless Steel Security Bollard (30"-36" height w/ 6" max diameter)
- Green Wall (Greenscreen™ or approved equal)
- Brick Paver Banding (public right-of-way; per Joliet city standards)
- Standard Concrete Sidewalk (public right-of-way; per Joliet city standards)



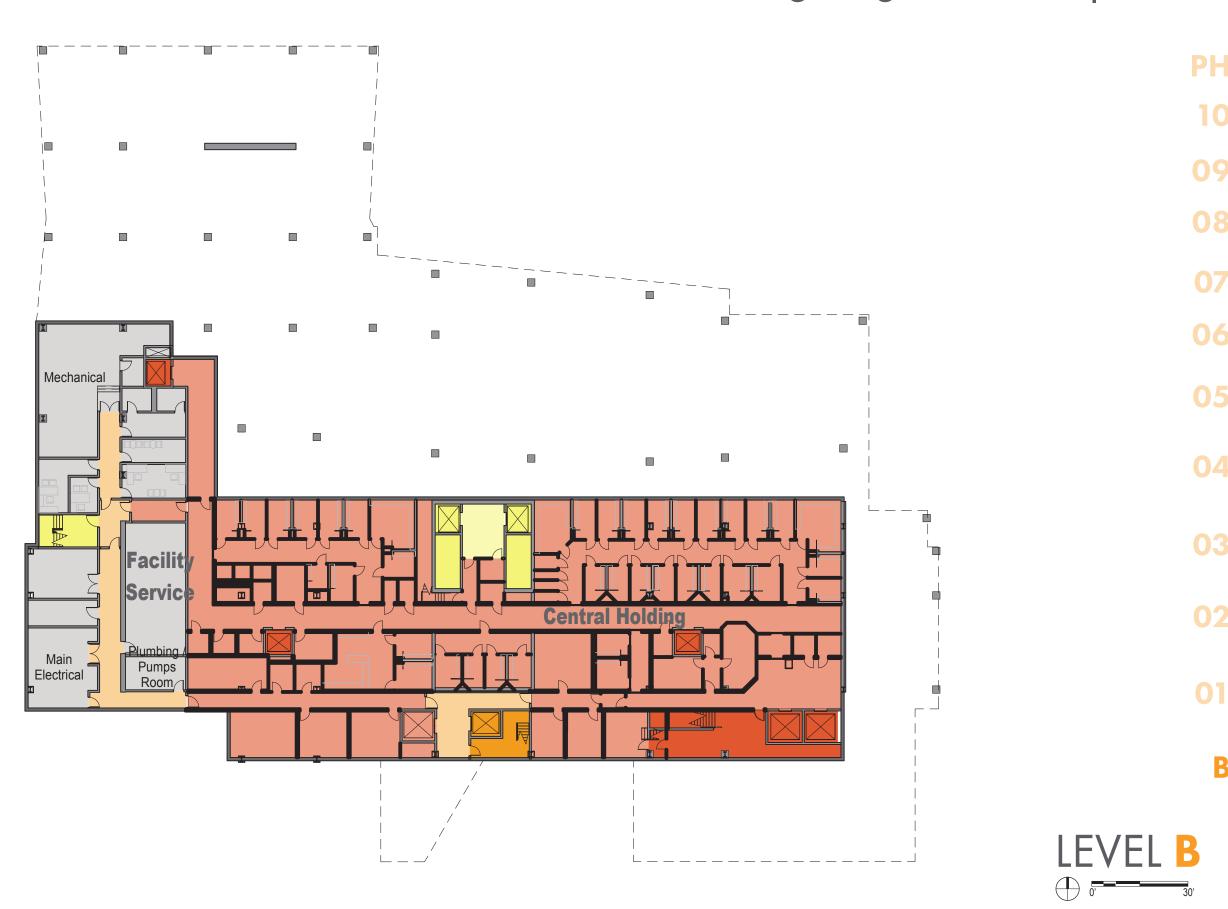
Site | Utilities & Detention





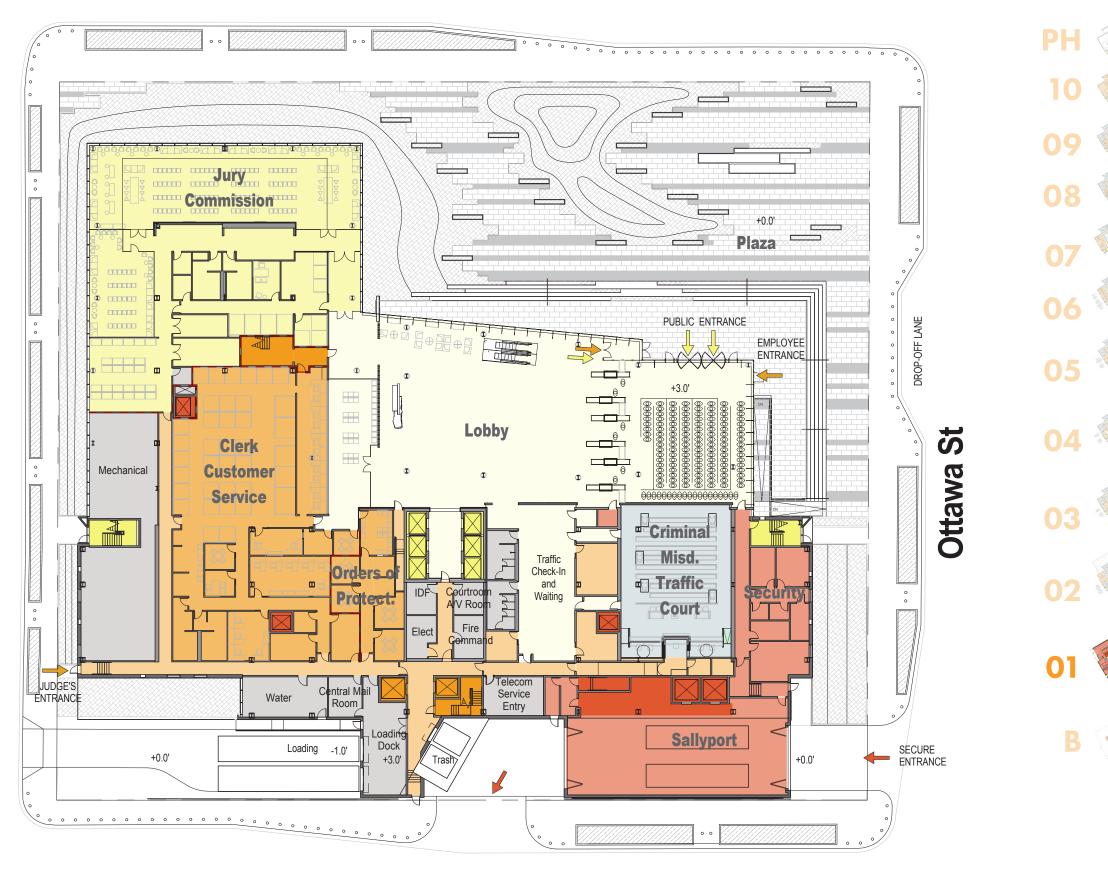








Building Organization | Floor Plans Jefferson St















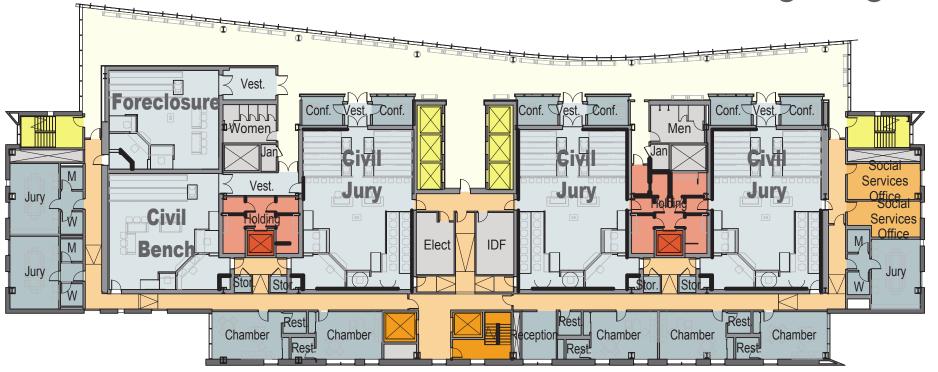






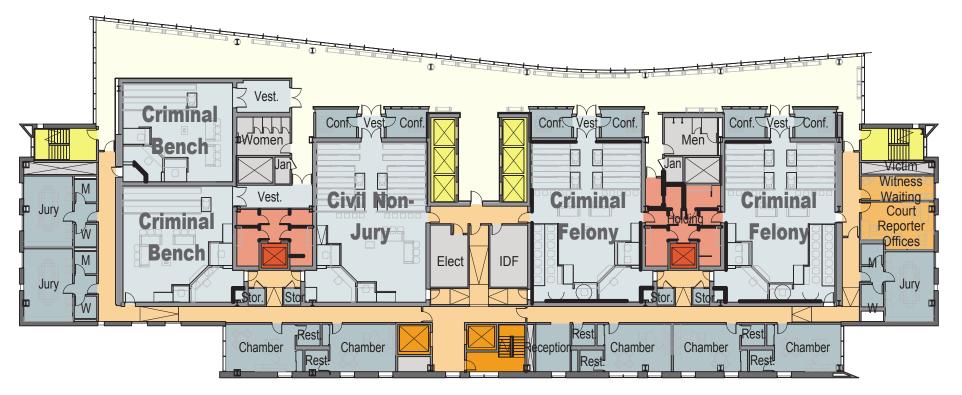




















Courtroom Stacking | Counts

Courtroom Summary			
New Courthouse	Current Courthouse	Move-In	Build-Out
	# of	# of	# of
Courtrooms by Division	Courtrooms	Courtrooms	Courtrooms
Criminal and Traffic Court	14	16	20
Special Proceedings Courtroom	0	1	1
Felony Courtroom	8	6	8
Criminal Courtroom - High-Volume	1	1	1
Misdemeanor Courtroom	4	4	4
Traffic Courtroom - High-Volume	1	1	1
Specialty Courtroom	0	1	1
Bench Courtroom	0	2	4
Civil Court	2	4	10
Special Proceedings Courtroom	0	1	1
Civil Trial Courtroom	0	0	3
Civil Non-Jury Courtroom - High-Vol.	1	1	1
Chancery Courtroom	0	0	0
Probate Courtroom	0	1	1
Foreclosure Courtroom	0	0	1
Non-Jury Courtroom	1	1	2
Bench Courtroom	0	0	1
Family Court	7	8	8
High-Volume Family Courtroom	2	4	4
Family Courtroom	5	4	4
Total Courtrooms	23	28	38

Courtroom Stacking | Move-In

Level	East Support	Ea	ast	W	est	West Support	SW Wing	NW Wing	Move-In
10	Grand Jury	Civil Probate	Civil Non-Jury	Civil Special Proceedings	Court Adn	ninistration			3
9									o
8									0
7	Court Report	Family High Volume	Family High Volume	Family	Crim. Bench Family	Social Service			5
6	Court Report	Family High Volume	Family High Volume	Family	Crim. Bench Family	/ Baliff			5
5	Jury Rooms	Felony	Felony	Felony	Cafe	eteria			3
4	Jury / Attorney	Felony	Felony	Felony	Criminal Specialty Court	Jury Rooms	Criminal Special Proceedings	PD Shared Conf. ADR	5
3	Jury / Interpreter	Misdemeanor	Misdemeanor	Misdemeanor	Misdemeanor	Jury Rooms	Law Library	Adult Probation	4
2	Conf. / Recording	Civil High Volume- Small Claims	Criminal Misd. High- Volume			Clerk			2
1	Security Office	Misd. Traffic	Traffic Queue	Orders of Protection		Clerk Customer Serv	vice	Jury Commission	1
В			Central Holdi	ing	Fa	icility Services			28



Courtroom Stacking | Build-Out

Level	East Support	East		West	West Support	SW Wing	NW Wing	Future
10	Grand Jury	Civil Probate Civil Non-Jur	Civil Spe Proceed	Couri	t Administration			3
9	Jury / Court Report	Civil Jury Civil Jury	Civil Ju	ırv	Fore- losure Jury Rooms			5
8	Jury Rooms	Felony Felony	Civil Non	-Jurv	Crim. Bench			5
7	Court Report	Family High Volume Family High Vol	ume Famil	y Crim. Bench	Social Service			5
6	Court Report	Family High Volume Family High Vol	ume Famil	y Crim. Bench	amily Baliff			5
5	Jury Rooms	Felony Felony	Felon	У	Cafeteria			3
4	Jury / Attorney	Felony Felony	Felon	Criminal Spe Court	lury Rooms	Criminal Special Proceedings	PD Shared Conf. ADR	5
3	Jury / Interpreter	Misdemeanor Misdemeano	r Misdeme	anor Misdemea	anor Jury Rooms	Law Library	Adult Probation	4
2	Conf. / Recording	Civil High Volume- Small Claims Criminal Misd. Volume	High-		Clerk			2
1	Security Office	Misd. Traffic Traffic Queu	e Orders Protect		Clerk Customer Serv	rice	Jury Commission	1
В		Сег	ntral Holding		Facility Services			38

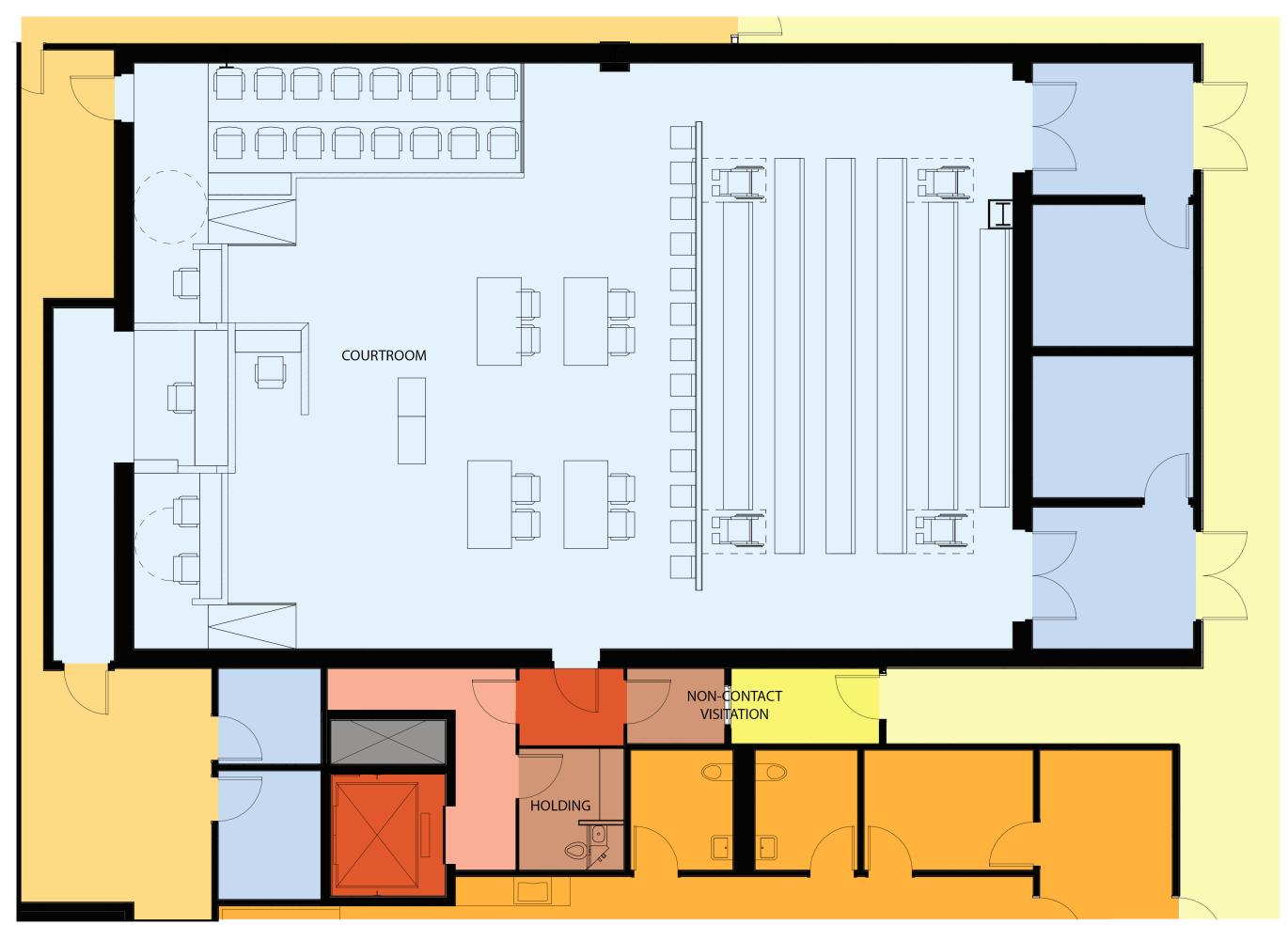
























LIMESTONE RAINSCREEN

Rainscreen systems use thin, lightweight exterior veneer as its primary defense against the weather. A secondary means of defense is with a waterproof membrane within the wall assembly. Joints between cladding panels are left open to allow wind driven rain out by way of guttering and convection.

STACKED CAST STONE VENEER

Stacked veneer is a traditional method of building walls where a course of stone bears on the one below. The use of cast stone allows for efficient articulation of the envelope where natural stone is very costly such as reveals, variable angles, and stepped facades.

ARCHITECTURAL PRECAST CONCRETE

Architectural precast concrete panels are large monolithic panels that are cast off site. Articulations, window openings, and textures are part of the cast. This in combination with their large size allow for efficient installation which helps reduce the cost of the envelope.







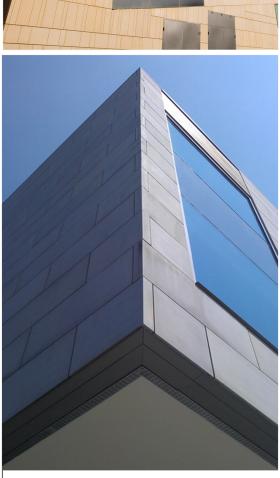






precast







mestone rainscreen



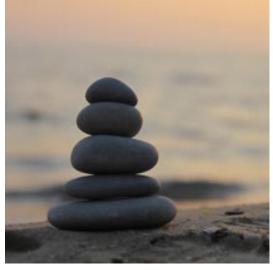
INTERIORS

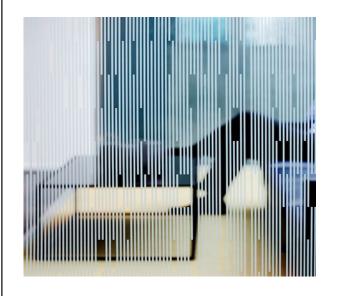




















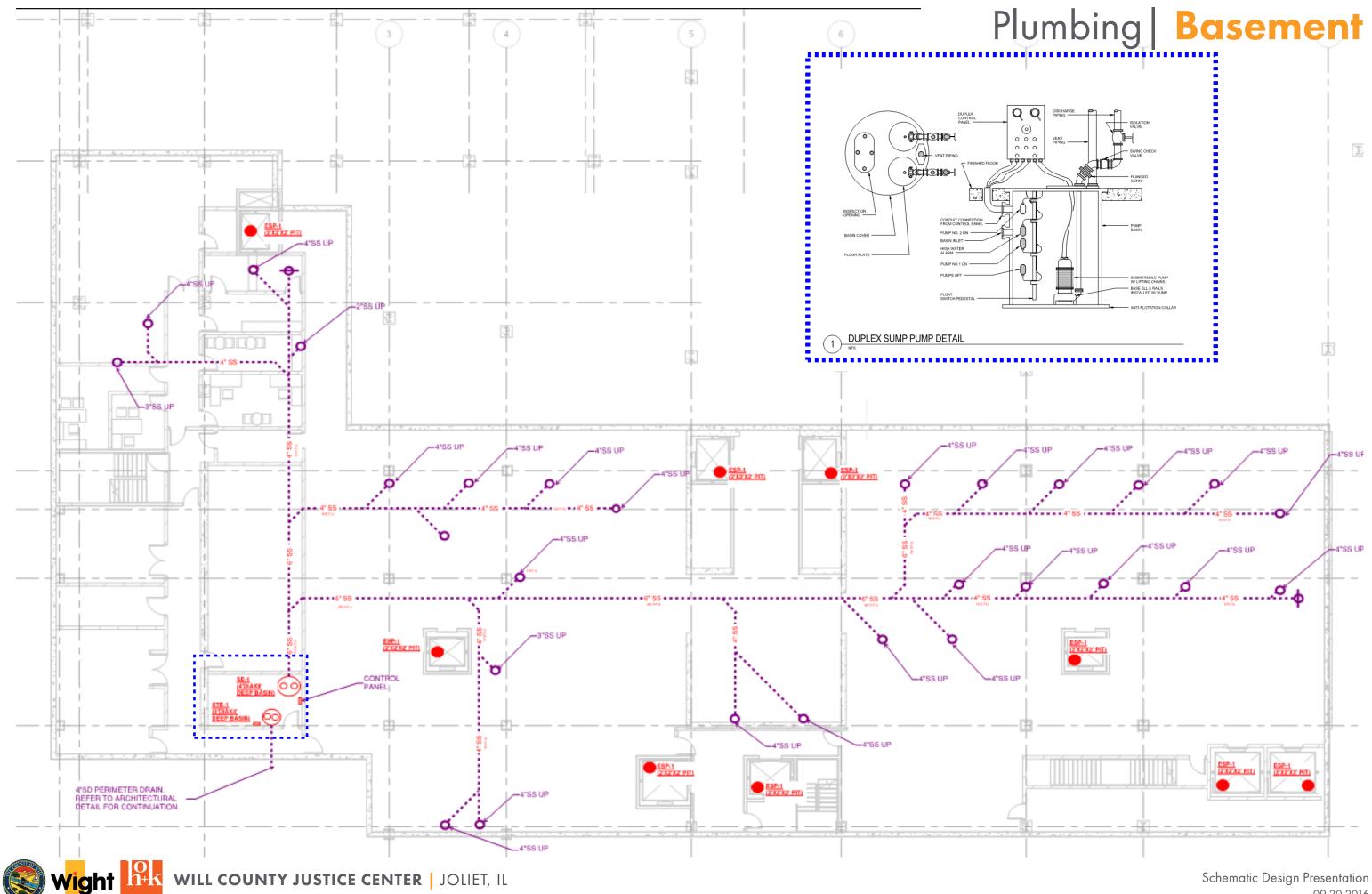
PERSPECTIVE VIEW LOBBY





Choosing By Advantages Study of: Concrete vs. Steel							
		Alternative 1		Alternative 2		Alternative 3	
		Steel		Mild Reinforced Cast In Place Concrete		Post Tension Cast In Place Concrete	
Factor: Schedule							
Criteria: Impact of structure on overall schedule	Attribute	Requires longer lead time, Lead times not critical for this project schedule		Requires shoring/reshoring that restricts access until removed		Requires shoring/reshoring that restricts access until removed	
	Advantage	schedule preferred by contractor	3	No advantage	1	No Advantage	1
Factor: Market Price Fluctuation Criteria: Which system is more susceptible to material cost fluctuations	Attribute Advantage	Historically more volitile market price No advantage		Historically less volitile market price more predictable pricing	3	Historically less volitile market price	3
		No advantage		more predictable pricing	3	more predictable pricing	3
Factor: Capable contractors Criteria: Availability of qualified contractors for bid coverage and construction	Attribute Advantage	Good availability in Chicagoland Area Better Availability	3	Good availability in Chicagoland Area No Advantage	2	More specialized due to post-tensioning Fewer Contractors	1
Factor: Future Flexibility				l			
Criteria: Ease of modification & reinforcement.	Attribute	Future penetrations and openings are feasible. Reinforcement and modification of structure is straight forward.		Size and location of openings restricted. Structural analysis usually required. Reinforcement is complex.		Size and location of openings restricted. Structural analysis and slab scanning usually required. Reinforcement is complex.	
		Easily modify structure	3	scanning may not be required	2	no advantage	1
Factor: Floor to floor height							
Criteria: Depth of Structure	Attribute Advantage	36" structure w/ voids between beams no advantage	1	20" structure + including drop panels/beams reduce 16" per floor	2	16" structure + including drop panels/ beams reduce 20" per floor	3
		no advantage	1	leduce to per noor	2	reduce 20 per 11001	3
Factor: Acoustics Criteria: Noise transmission and vibration criteria	Attribute	least mass and damping. Additional steel, concrete or ceilings may be required.		best mass and damping		moderate mass and damping	
CITETIA. IVOISE HAIISHIISSIOH AND VIDIAHOH CITETIA		no advantage	1	meets all acoustical	3	meets all acoustical	3
Factor: Column Size		small profile and voids for vertical services		moderately large columns required for strength and punching shear		large columns required for strength and punching shear	
Criteria: Impact on space planning and layout	Attribute Advantage	smallest column area	3	no advantage	1	no advantage	1

Choosing By Advantages Study of: Concrete vs. Steel							
		Alternative 1		Alternative 2		Alternative 3	
		Steel		Mild Reinforced Cast In Place Concrete		Post Tension Cast In Place Concrete	
Factor: Seismic Loads Criteria: Magnitude of seismic lateral loads	Attribute	Lightest structure		Heaviest structure - ~25% larger lateral system		Moderately heavy structure - ~ 20% larger lateral system	
-	Advantage	least seismic loads	3	no advantage	1	no advantage	1
Factor: Foundations Criteria: Size of foundation element	Attribute	Lightest structure		Heaviest Structure		Moderately heavy structure	
Enteria: Size of foundation element		Smallest foundations	3	no advantage	1	no advantage	1
Factor: Uplift forces Criteria: Additional anchorage required for uplift forces	Attribute	net uplift in some locations		large dead load resists all uplift forces		large dead load resists all uplift forces	
	Advantage	no advantage	1	no supplemental anchorage required	3	no supplemental anchorage required	3
Factor: Placement of MEP/FP services Criteria: Ease of routing and placement of ductwork, piping, conduits, etc.		deep beams and structural depth no advantage	1	flat slab with some shallow beams mostly open ceiling sandwich with shallow beam interference	3	flat slab with some drop panels at columns mostly open ceiling sandwich and flat structure soffit	3
Factor: Coordination of MEP/FP services Criteria:	Attribute Advantage	Sleeves and embedded items can be easily accommodated after the slab pour minimal coordination prior to pour	3	sleeves and embedded items must be in place prior to pour no advantage	1	sleeves and embedded items must be in place prior to pour no advantage	1
Factor: Slab elevation changes/stepping Criteria: Ease of accommodating changes in slab elevation	Attribute	Framing out elevation changes is straight forward		More difficult to form and loss of slab continuity		More difficult to form and loss of slab continuity. Add'l labor for PT stressing	
Adva		minimal impact on cost and schedule	3	no advantage	2	no advantage	1
Factor: Exterior wall attachment Criteria:	Attribute	supplemental steel and slab reinforcement required		Embeds in slab edge can support exterior walls. Beams may be required		Embeds in slab edge can support exterior walls. Beams may be required	
	Advantage	no advantage	1	simplified attachment	3	simplified attachment	3
То	tal Importance		29		28		26
	Capital Cost	\$50.32	sf	\$56.40	sf	\$51.61	sf



Number: 000 Revision: 00

Description: Basement Sanitary System

Plumbing | Basement Vacuum System

Date: 8/17/2016

Champion: Thomas Pickrell Collaborators: Mark Crawford

Background:

The proposed basement function consist of central holding that is located below the invert elevation of the gravity building sewer and will require mechanical means to discharge sewer from all basement plumbing fixtures. Site conditions have bedrock at an approximately elevation of 530 feet and is located approx. 500 feet from the Des Plaines River. Basement finished floor elevation is at 529'-10". The site is not located in a flood zone or have ground water concerns.

Goal:

The primary goal is to come up with a basement sanitary system that meet the follow requirements:

- Cost
- Minimal Structural and floor plan impact
- Serviceable

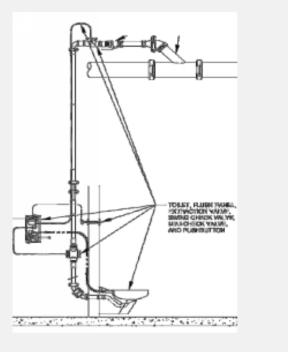
Floor Flange

piping routed in below finished floor

Security/emergency conditions

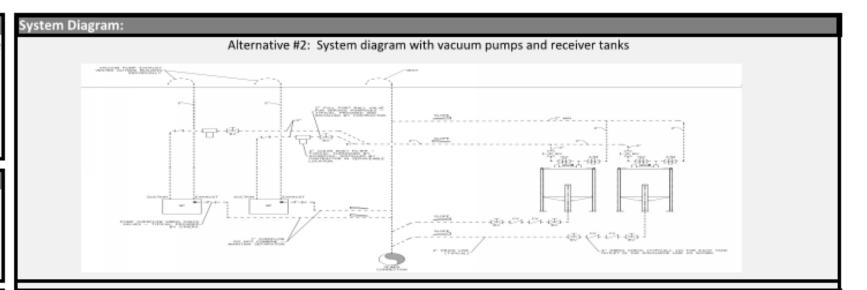
Alternative #1: Gravity system with a sewage ejector Typical Water Closet detail Vent piping routed up to ceiling space

Alternative #2: Vacuum System with a sewage ejector
Typical water closet detail



Alternative #3: PVC underground sanitary sewer.

PVC material used in baseline Franklin County project. System has a lowest first cost and highest life span of 40 years. PVC is not allowed per the 2014 Illinois State Plumbing Code and No further analysis provided



	BASEMENT SANITARY SYSTEM			
	LEGEND		Alternative 1	Alternate 2
	Underline Least Preferred Attribute Yellow sell = must important Advantage in Faster Blank = no advantage Circle = paramount advantage		GRAVITY SYSTEM	VACUUM SYSTEM
Factor	Celling space		Requires larger cast iron waste and vent piping	Smaller copper sanitary pipe and no vent piping.
Criteria	Area the system require above the ceiling.		routed above ceiling.	
		Advantage	Base Design	less vertical area
Factor: Griteria:	Minimizes floor space SF of space for mech room		Requires no equipment	Requires 2 vacuum pump 1 grinder, and 2 receiver tanks
		Advantage:	no of added	250 sf added
Factor:	System Lifecycle cost		Cast Iron pipe last approx. 20 years	Equipment has routine maintenance.
Criteria:	Includes energy costs, equipment lifecycle replacement of maintenance/service costs (including system applicability			Less maintenance calls f plugged drains. Lower flow fixtures, lower water consumption
		Antonologie	Lower cost	Higher First cost
Factor: Oritoria:	System Redundancy/ Reliability Reliability of equipment based on equipment type, sizing, it	and location and	Has no equipment to fail. Piping prone to plug cause system shut downs.	Redundant storage tank and vacuum pumps. Less prone to plug up.
	equipment redundancy.			Benefit function is each fixture can be isolated.
	Water Namelick, to Sun and Maintele	Advantage:	elemate en elemano de teninio	House additional
Factor: Assure Convenie	System Simplicity to Own and Maintain.		Gravity system - no training needed	operating training. Less/down time of system
Criteria:	System controllability after contractor leaves. Ability of sy during lifespan of project.	stem to stay tuned		due to plugs or leaks.
		Advantage:	simple	complex
Factor	Provide for any Future Expansion		Have to cut the slab and trench bed rock. Adds slab penetrations.	Piping routed overhead. Easy to add new fixture.
Criteria:	Ability to Expand to Serve Future fixtures			
		Advantage:	difficult expansion	easy expansion
Factor:	Constructability		4' deep pipe trenches located in bed rock. Higher cost and takes longer to	Minimum pipe below slat bedrock.
Criferia:	Ease of Installation	Advantage:	trench.	
Factor	Security/emergency	Advantage:	Prone to be plugged by	System can be isolated.
	oecunty/emergency		prisoners when flushing large items.	Allows for large items to flushed.
Criteria	Meet the demands of the security.			
		Advantage:	less secure	higher security
	Cost Difference		Base Design	\$125K more

Recommendation:

Due to the critical natural of the basement holding cells we are deferring the decision to the owner. The decision should not be made solely based on cost and needs to take into account prisoner & faculty safety with facility operations.



Will County Justice Center

Number: MEP-

Revision: 0

Description: HVAC System - Lobby & Waiting

Date: 8/17/2016 Rev 0

Champion: D R Hartdegen

Collaborators: N. Pal, M. Crawford, J. Fait, T. Pickrell, D. Sleboda, D, Appello, A. Malhotra

Background

Franklin County Courthouse (FCC) is the benchmark for the project. The system used in FCC includes central AHU's, chillers, boilers, reheat VAV boxes. and return duct , using air side economizer.

The lobby and waiting areas are served by overhead VAV air distribution with hot water radiation at the perimeter glass.

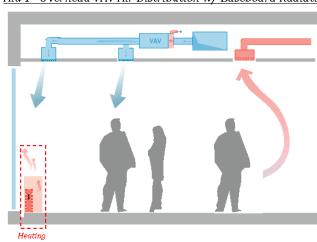
CURRENT STATE: Matching the FCC benchmark systems for the Tower including the Lobby and Waiting Areas on each floor has the following issues:

- 1. Penthouse for air handling units is not large enough requiring space with additional cost and architectural impact.
- 2. Tower shaft space for ductwork is not sufficient for air distribution similar to FCC.
- Radiatiors at the Lobby along the glass and diffusers in the ceiling significantly impact the architectural goals for the space.

FUTURE STATE:Create an alternate design that will meet resolve the issues above in accordance to the project conditions of satisfaction (project goals).

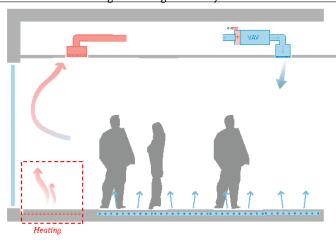
Alternates

Alt. 1 - Overhead VAV Air Distribution w/ Baseboard Radiation





Alt. 3 - Radiant Heating & Cooling Floors w/ Overhead Ventilation





Recommendation

Radiant Heating and Cooling Floors with Overhead Ventilation provide better performance and architectural impact at less cost.

Analysis:

	HVAC - Lobby/ Waiting Airside/HVAC			
	LEGEND Underline Least Preferred Attribute Yellowcell = most important Advantage in Factor Blank = no advantage Circle = paramount advantage		Alternate 1 Overhead VAV A ir Distribution with baseboard radiation (FCC Basis)	Altemate 3 Radiant Heating/ Cooling Floors with Overhead Ventilation
1.	E REM ARKS		Design Attributes 1.76,000 CFM supply air and return air 2.1.5 cfm/sf 3. SA diffusers and RA grilles in celling 4. Requires economizer (air or water) in base unit. 5. Minimum SA/ Fresh Air temperature is 55F 6. Energy recovery wheel at rooftop unit.	Design Attributes 1. 36,000 CFM supply air and return air 27 cfm/sf 3. Fresh Air and RA grilles high in wall or celling 4. Requires economizer (air or water) in base unit. 5. Minimum SA/ Fresh Air temperature is 55F 6. Energy recovery wheel at rooftop unit.
Factor: Criteria:	Attribute - Penthouse Mechanical Space. SF of penthouse space for air handling unit, vertical mech duct/pipe riser including associated clearance space.		Increases penthouse requirements for equipment. Very tight no advantage	Fills roof/penthouse with equipment.
		····-g··		impact versus alt 1.
Factor: Orteria:	Attribute - Mechanical Space on occupied floor SF of space for vertical mech duct/pipe risers ad mechanical rooms (This does not include mezzanine mechanical space)		FCC VAV distribution does not fit into shafts without additional costs and controls for medium pressure return air. Need space for exhaust riser.	IVAV SA + Fresh Air + Exhaust fits, tightly.
		Advantage:	no advantage	Fits into shaft including exhaust duct Tight
Factor:	Attributes - Architectural impact in space.		Ceiling Diffusers and Return Air Grilles.	Ceiling Diffusers and Return Air Grilles for 80 % less airflow.
Crite ria:	Architect opinion/acceptance of layout	Advantage:	Baseboard Radiation No advantage	Eliminate Baseboard at glass. 50% less airflow supplied with Cellin diffusers or wall grilles
Factor	Attributes - Comfort		Cooling - comfortable Heating - comfort acceptable Lobby will stratify with a little higher	Cooling - very comfortable Heating - very comfortable
Crite ria:	Comfort in Space	Advantage:	temperatures on 2nd floor. no advantage	Better comfort than alternate 1
Factor:	Attributes - A coustics	_	Possibly additional air noise will make it louder. Not clear if this is good/bad "white noise".	Air noise will be less than overhead SA distribution. Not clear if this is good or too low "white noise".
Crite ria:	Sound level meets allowable NC range for space.	Advantage:	no advantage	no advantage
Factor: Oriteria:	Attributes - Operational efficiency Maximize staff operations. Includes Ease of Service and Maintenance. system applicability to this climate.	Includes	Air and water systems at space require little maintenance. Baseboard covers are typical source of issue.	Air and water systems at space require little maintenance. Pump and controls add a small amount of additional maintenance.
		Advantage:	simpler controls, no additional pumps	No radiator covers to maintain is a significant advantage.
Factor:	System Simplicity to Own and Maintain.		Standard hydronic heating is well known hydronics. Floor system	Systems a little different from well known hydronics. Floor system
Crite ria:	System controllability after contractor leaves. Ability of system to stay tu during lifespan of project.	ned	dependable like most hydronics. Air systems require standard calibration over time.	dependable like most hydronics. Air systems require standard calibration over time.
Factor:	Suction 51 with life	Advantage:	no advantage	no advantage
Criteria:	System Flexibility		Flexible overhead services.	Radiant tubes in floor and manifolds In wall limit modificalton of these areas. Change in lobby/waiting is perceived as a low risk.
		Advantage:	Advantage	no advantage
Factor: Criteria:	System Energy cost Energy costs		Base meets current code energy requirements.	Off hours cooling uses much less energy, Normal hours energy use is less, (% savings to be calculated).
	<u> </u>	Advantage:		Better
Factor: Criteria:	Attributes - Meets or exceeds benchmark FCC budget.		Matches FCC scope and budget.	Reduces budget both for mechanical pricing and total pricing.
		Advantage:	no advantage	Approx. 250k savings (Mech only)



Electrical | Emergency Generator Tiers

Tier 1 (Code Minimum)

- 1. Emergency lighting
- 2. Means of egress lighting
- 3. Exit Signs
- 4. Fire Command Center
 - a. Fire Alarm System
 - b. Emergency voice/alarm communication systems
 - c. HVAC for Room?
- 5. Security System
- 6. Building Automation System
- 7. Telephone switching system
- 8. Fire Pump
- 9. Jockey Pump
- 10. Sump Pumps
- 11. Ejector Pumps
- Passenger/Private Elevators
 (total of 6)
- 13. (MDF/IDF Rooms)
 - a. server rooms/communication equipment
- 14. Stairwell Pressurization AHUs
- 15. Central Holding
 - a. Lighting and power
 - b. Air Handling Units

Tier 2 (Owner Priority Items Added)

- I. Recommended Building Backup System
 - a. Heating (Radiant Floors)-Boiler, Pumps etc.
- 2. Owner Priority equipment/systems.
 - a. Kitchen Refrigeration Units
- 3. Owner Priority Functional Areas
 - a. Offices as selected by the County
 - b. Court Rooms as selected by the County
 - c. HVAC Courtrooms and support offices

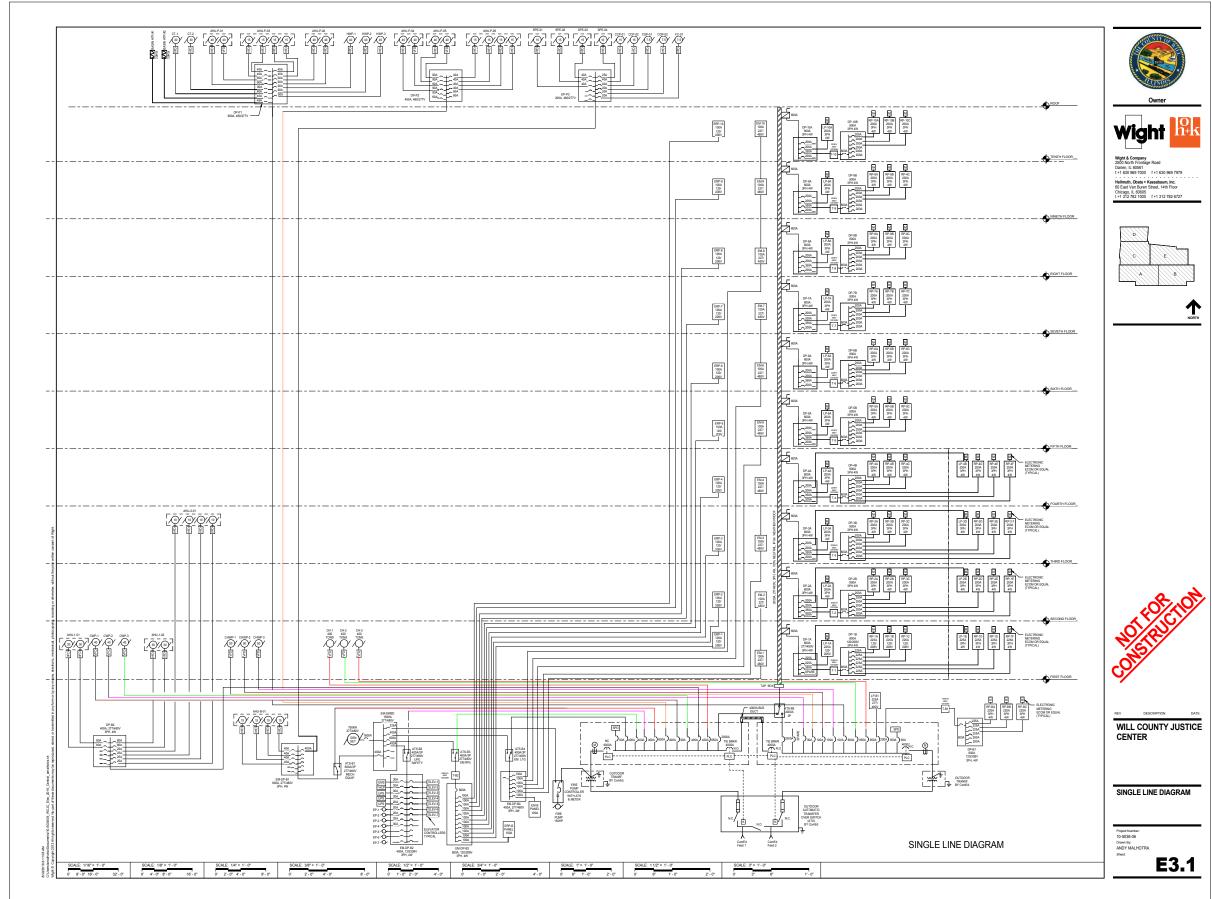
Tier 3 (Franklin County Courthouse)

- 1. Entire Building lighting, power and equipment on Emergency Power.
 - a. Will require multiple generators and Paralleling Switchgear,
 - b. Requires additional space
 - c. No Chillers and Cooling Towers, pumps, etc. to be included

Tier 4 (Complete Building Power Backup)

 Requires multiple and paralleling switchgear.

Electrical | Single Line Diagram Alt 3





AV

• Recommending combined and converged technology at injest pointes (cameras, microphones, etc) in various spaces to minimize clutter in the courtrooms, while providing secured outputs to each stake holder (state, county, Sherriff) that will economize costs and maximize flexibility.

Telecommunications

- The telecommunications infrastructure goal for the new Will County Courthouse is to provide an integrated technology network with a robust infrastructure that supports high reliability, redundant bandwidth capacity and flexibility to extend current and future technology services to the employees located within the new facility.
- The Intent is to design converged telecommunications spaces (MPOE, MDF, MER, IDFs and AV) that provide adequate space, security, cooling and power management to support the facilities requirements for low voltage technologies.

Security

- Separate systems for building as well as for all holding spaces
 - o Security systems work to separate public from secure areas and provide for further separation between departments
- Security screening to take place in the lobby with multiple stations to be staffed at differing levels dependent upon the time of day.
- Security system will be segmented to provide the ability for different departments to utilize portions of the base system for their needs, i.e. camera systems

Projec	2009 for New Construction and the Checklist	,				Will County Date	: 5/25/2
10 2 <mark>Sustai</mark>	nable Sites	Possible Points:	26		Materia	als and Resources, Continued	
? N	Construction Activity Pollution Prevention			Y ? N	Credit 4	Recycled Content	1 +0
Prereq 1	Site Selection		1	1 1	Credit 5	Regional Materials	1 to
Credit 1	Development Density and Community Connectiv	/i+v/	I E	2	Credit 6		1 to
1 Credit 3	•	rity	1	1	Credit 7	Rapidly Renewable Materials Certified Wood	1
Credit 4.1	Brownfield Redevelopment Alternative Transportation—Public Transportati	on Accoss	4	1	Credit 7	Certified wood	'
1 Credit 4.1	Alternative Transportation—Fublic Transportation Alternative Transportation—Bicycle Storage and		1	10 2 3	Indoor	Environmental Quality Possible Points	s: 15
Credit 4.2	Alternative Transportation—Low-Emitting and F		. J	10 2 3	IIIdooi	Elivironmental Quality Fossible Foliates). IJ
2 Credit 4.4	Alternative Transportation—Low-Efficing and T	det-Efficient venicle.	, j	Υ	Prereg 1	Minimum Indoor Air Quality Performance	
1 Credit 5.1	Site Development—Protect or Restore Habitat		1	Y	Prereg 2	Environmental Tobacco Smoke (ETS) Control	
1 Credit 5.2	Site Development—Maximize Open Space		1	1	Credit 1	Outdoor Air Delivery Monitoring	1
Credit 6.1	Stormwater Design—Quantity Control		1	1	Credit 2	Increased Ventilation	1
Credit 6.2	Stormwater Design—Quality Control		1	1		Construction IAQ Management Plan—During Construction	1
Credit 7.1	Heat Island Effect—Non-roof		1	1	-	Construction IAQ Management Plan—Before Occupancy	1
Credit 7.2	Heat Island Effect—Roof		1	1	-	Low-Emitting Materials—Adhesives and Sealants	1
Credit 8	Light Pollution Reduction		1	1		Low-Emitting Materials—Paints and Coatings	1
	3			1	-	Low-Emitting Materials—Flooring Systems	1
3 Water	Efficiency	Possible Points:	10	1		Low-Emitting Materials—Composite Wood and Agrifiber Products	1
	,			1	Credit 5	Indoor Chemical and Pollutant Source Control	1
Prereq 1	Water Use Reduction—20% Reduction			1	Credit 6.1	Controllability of Systems—Lighting	1
Credit 1	Water Efficient Landscaping		2 to 4	1	Credit 6.2	Controllability of Systems—Thermal Comfort	1
2 Credit 2	Innovative Wastewater Technologies		2	1	Credit 7.1	Thermal Comfort—Design	1
1 1 Credit 3	Water Use Reduction		2 to 4	1	Credit 7.2	Thermal Comfort—Verification	1
				1	Credit 8.1	Daylight and Views—Daylight	1
0 11 Energy	y and Atmosphere	Possible Points:	35	1	Credit 8.2	Daylight and Views—Views	1
Prereq 1	Fundamental Commissioning of Building Energy	Systems		5 1	Innova	tion and Design Process Possible Points	s: 6
Prereq 2	Minimum Energy Performance				-		
Prereq 3	Fundamental Refrigerant Management			1	-	Innovation in Design: Low Mercury Lighting	1
Credit 1	Optimize Energy Performance		1 to 19	1	_	Innovation in Design: Heat Island - Non-Roof	1
7 Credit 2	On-Site Renewable Energy		1 to 7	1	_	Innovation in Design: Green Building Education	1
Credit 3	Enhanced Commissioning		2	1	-	Innovation in Design: Green Housekeeping	1
Credit 4	Enhanced Refrigerant Management		2	1		Innovation in Design: Integrated Pest Management	1
Credit 5	Measurement and Verification		3	1	Credit 2	LEED Accredited Professional	1
Credit 6	Green Power		2	2 2	Region	al Priority Credits Possible Point	·s· 4
7 <mark>Materi</mark>	als and Resources	Possible Points:	14		rtegion	at the first character of the	
			-	1	Credit 1.1	Regional Priority: SSc2 Development Density & Community Connec	ctivi 1
	Storage and Collection of Recyclables			1	-	Regional Priority: SSc4.1 Public Transportation	1
Prereq 1	-	I D 6	1 +0 2	1	Credit 1 3	Regional Priority: SSc4.3 Low Emitting & Fuel Efficient Vehicles	1
Prereq 1 Credit 1.1	Building Reuse—Maintain Existing Walls, Floors,	and Root	1 to 3		Credit 1.5	Regional Friority: 33c 1:3 Low Limiting a ract Efficient vehicles	
	Building Reuse—Maintain Existing Walls, Floors, Building Reuse—Maintain 50% of Interior Non-St		1 10 3	1	-	Regional Priority: SSc4.4 Parking Capacity	1





