
**Orange County Detention Center
Progress Update Presentation**

**Board of Orange County Commissioners
Regular Meeting**

**Southern Human Services Center
Chapel Hill, North Carolina
October 20, 2015**



MOSELEYARCHITECTS





Intended Outcome

- ***Introduce*** Moseley Architects
- Detention Center ***Progress*** Update
- Review ***Stakeholder Input*** within Programming and Schematic Design Process
- ***Solicit feedback*** from the Board of Orange County Commissioners

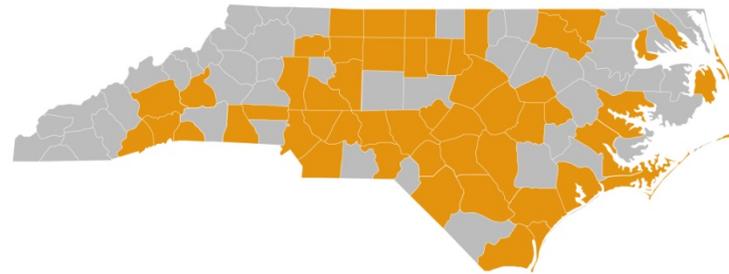
Who is Moseley Architects ?

- Founded in 1969, Moseley has over **45** years of continuous practice exclusively in the South
- We **SPECIALIZE** in County detention facilities, justice complexes, state and federal corrections, law enforcement, and public sector planning and design – over **80** detention facility projects completed in the last 10 years alone !
- Over **190** architects, engineers, project management, operations specialists, and construction professionals
- **85%** of our current business is from **repeat clients**
- Commitment to energy efficient design – **69 Leadership in Energy Efficient Design (“LEED”) certified facilities – over 12 million square feet**



North Carolina Detention Projects

- Beaufort County Detention Facility
- Bladen County Detention Facility
- Buncombe County Detention Center Expansion (consultant)
- **LEED Gold** Camp Lejeune Regional Brig
- Craven County Judicial Center
- Cumberland County Detention Center Expansion
- Guilford County “Old” Detention Center Renovations
- Guilford County New Detention Center
- Halifax County Sheriff’s Office and Jail Expansion
- Harnett County Law Enforcement and Detention Center
- Hoke County Detention Center Addition
- Iredell County Jail Expansion
- Lincoln County Detention Center



- Mecklenburg County Jail Arrest Processing Renovation/Expansion
- Mecklenburg County Security Systems Replacement
- Montgomery County Detention Center
- **LEED Gold** Rockingham County Judicial Center
- Rowan County Satellite Jail
- Sampson County Detention Center
- Stanly County Detention Center Expansion
- Stokes County Jail Expansion
- **LEED Silver** Transylvania County Public Safety Facility
- Wayne County Satellite Jail Facility



Process to Date

- Design ***“Charge”***
- Stakeholder Survey and Direct Interview ***Input***
 - Jail Personnel
 - Courts, Justice
 - Law Enforcement
 - Jail Alternatives Professionals
 - Staff
 - Elected Officials
- Final Jail Program, Schematic Design ***Options***
- ***Concepts*** needing Board feedback



Charge & Stakeholder Input: **Major design issues to address**

1. **Protect** safety of officers, staff, inmates and the public
2. Design for staff efficiency – great sightlines into housing units
3. Provide for **alternative programs** to help reduce inmate recidivism
4. Design to **“normalize”** the interior where possible (non-institutional)
5. Cost – both initial capital outlay and life cycle costs need to be reconciled
6. Maintenance resilience – look at ease of maintenance – quality systems
7. Reduce utility/energy consumption – creative **energy-efficient** strategies
8. Allow for ease of future growth / expansion



Key Elements of Jail Program

- 146 Bed Jail with a 250 “core”
- Prefer “indirect podular” supervision with option to use “direct” supervision if desired
- Magistrate and Hearing Room Space
- Ample multi-purpose and classroom space for inmate programs
- 1 maximum security male unit – 12 beds
- 1 medium/maximum security flexible use unit (female, special population, mental health, etc.) – 22 beds
- 1 medium/maximum security juvenile/flexible unit – 8 beds
- 1 segregation/flexible unit – 8 beds
- 1 minimum security male/flexible dormitory – 24 beds
- 3 general population male units – 24 beds each

PROGRESS
 PRINT NOT FOR
 CONSTRUCTION

ORANGE COUNTY DETENTION CENTER

ORANGE COUNTY NORTH CAROLINA
 HILLSBOROUGH NORTH CAROLINA

PROJECT NO.	DATE
00000	OCTOBER 21, 2011
ISSUE	DESCRIPTION

OPTION A -
 FLOOR PLAN

A2.1



STAFF ENTRY

PUBLIC ENTRY

MAGISTRATE ENTRY

Option A-Spindle

1st Floor

FIRST FLOOR PLAN
 3/32" = 1' = 0"

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PROGRESS
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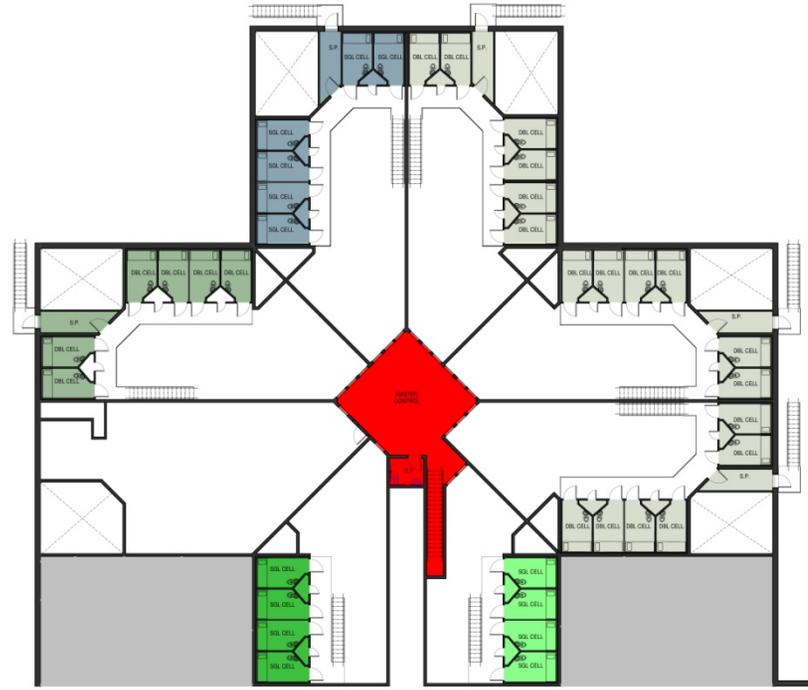
ORANGE COUNTY DETENTION CENTER

ORANGE COUNTY NORTH CAROLINA
HILLSBOROUGH NORTH CAROLINA

PROJECT NO.	DATE
15001	10/19/15
	REVISION

OPTION A -
MEZZANINE PLAN

A2.2



- Department Legend
- FEMALE HOUSING UNIT
 - GENERAL POPULATION - MALE
 - JUVENILE HOUSING UNIT
 - MASTER CONTROL
 - MAXIMUM CUSTODY - MALE
 - SEGREGATION HOUSING UNIT

MEZZANINE LEVEL
3/32" = 1'-0"

Option A-Spindle

Mezzanine (2nd Flr)

PROGRESS
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 CONSTRUCTION

ORANGE COUNTY DETENTION CENTER
 ORANGE COUNTY NORTH CAROLINA
 HILLSBOROUGH NORTH CAROLINA

PROJECT NO.	DATE
1000000000	10/20/15
REVISIONS	DESCRIPTION

OPTION B -
 FLOOR PLAN

A2.1



Option B Rear Chase Single Flr

FIRST FLOOR PLAN
 10/20/15

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Schematic Design Concept Comparison

“Spindle w/Mezzanine”

- Centralized Control; Indirect Supervision (can be switched to direct)
- Standard “Y” plumbing chases – maintenance personnel must enter secure spaces
- “Mezzanine” 2 level – more intensive to build/manage
- Single control room overlooks all housing units
- *Fewer multi-purpose rooms given housing layout*
- Less natural light in housing via window wall
- Design minimizes inmate movement in the facility

“Rear Chase Single Level”

- De-Centralized Control; Indirect Supervision (can be switched to direct)
- *Rear plumbing service chases - safer for inmates, staff, and maintenance; ease of maintenance; less disruption of secure space*
- Single level – no stairs or mezzanines to build/manage
- Multiple control rooms on ground level – one per 2 housing units
- More multi-purpose rooms given housing layout
- *Increased natural light in housing via window wall*
- More inmate movement down single movement corridor
- More building square feet than Spindle
- Easier to expand future housing units

Schematic Design Concept Comparison

“Spindle w/Mezzanine”

- Approx. 49,500 Gross Square Feet
- Estimated Project* Cost: \$15-\$16MM

“Rear Chase Single Level”

- Approx. 52,220 Gross Square Feet
- Estimated Project* Cost: \$16-\$17MM

**Includes 15% design, construction and escalation contingency*



Concepts Needing Board Feedback

- Disposition of Vacated Jail Site
- Co-location of Law Enforcement Center with new Detention Facility
- *Staff and Designer to continue analyzing opportunities and challenges*

Proposed Schedule

- Schematic Design Phase Completion, Board Presentation – November/December 2015*
- Design Development Phase Completion – January 2016
- Construction Document Phase – February - May 2016
- Agency Approvals – June 2016
- Construction Award Phase – June - August 2016*
- Construction Phase— (construction must begin prior to September 9, 2016) completion estimated February, 2018
- Closeout, Training, and Transition Phase – April 2018
- Must have inmates in facility by September 9th, 2019

**Site and Building Phases; Upon BOCC Approval*

Board Feedback, Questions

Thank You

for this opportunity to meet with you!