

TODAY WE WILL COVER

Forming and maintaining an in-house construction unit

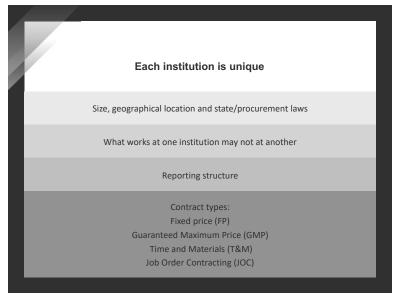
- ① Organizational layouts
- 4 Staffing levels
- 2 Benefits
- (5) Operating expenses
- 3 Challenges
- 6 Billing rates

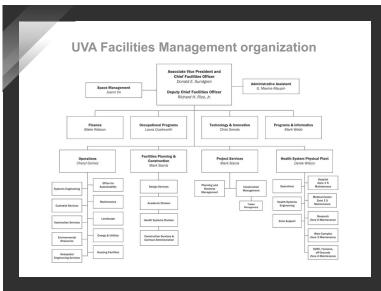
Have a question or comment?

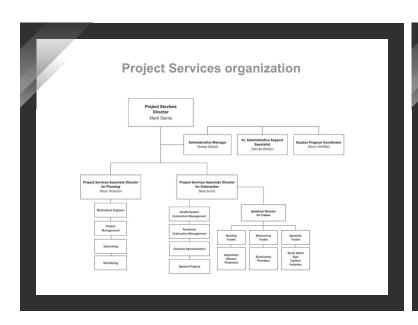
Feel free to ask or share during the presentation

Open discussion format









Our staff Office Construction manager • Trades manager Project managers Supervisors Estimators Scheduler Contract administrators Office assistants • Environmental remediation • Shared administration support

Field

Carpenters

Electricians

Plumbers

Plasterers

Sign shop

General services

Masons

Cabinet builders

Sheet metal workers

HISTORY OF PROJECT SERVICES



How can smaller institutions adapt concepts of larger institutions?

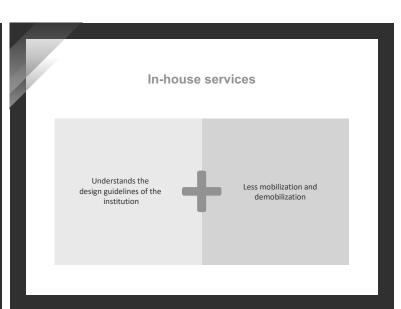
Questions and/or comments?

GROUP ACTIVITY

At your tables, list 1-2 benefits and challenges of an in-house construction group.

BENEFITS

Sample benefits Share a common mission with the institution Ownership and partner with maintenance staff Higher quality work Lower construction costs Lower project costs Institutional knowledge Increased responsiveness Emergency response



Thornton Hall renovation

- Thornton Hall Plaza

 New accessibility ramps to Thornton A-wing, large planters and wide brick walkway.

 Fixed price \$500,000.00
- Construction Start 5/23/2016 Construction Complete –
 8/15/2016

Thornton Hall Classroom A120

- Capture existing corridor adjacent to A120 to expand the classroom size
- Fixed Price \$330,000.00
- Construction Start 5/23/2016 Construction Complete 8/15/2016

- Thornton Hall Dean's Suite

 Full renovation of the Dean's Suite and SEAS Offices

 Fixed Price \$820,000.00

 - Construction Start 5/23/2016 Construction Complete 8/15/2016

Thornton Hall C-wing

- 2nd and 3nd floor renovation creating Project Room/Lounge and Admin Office on the 3nd Floor
 Fixed Price \$1.4 Million
- Construction Start 01/15/2016 Construction Complete 8/15/2016

Thornton Hall Darden Court Walkway

- New Walkway to match North Courtyard Walkway
 Fixed Price \$100,000.00
- Construction Start 6/1/2016 Construction Complete 8/15/2016









UNIVERSITY OF VIRGINIA

Thurston Hall



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Thurston Hall



UNIVERSITY OF VIRGINIA

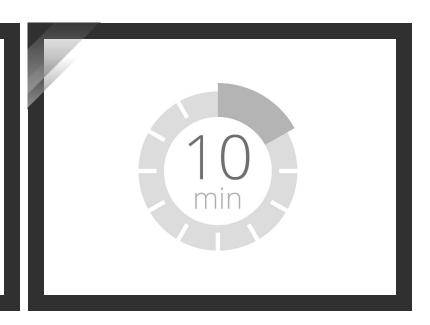
Thurston Hall

CHALLENGES

Challenges with in-house construction

- Fixed workforce with a varying workload
- Different procurement laws
- Ability to hire temp/contract labor
- Union workforce and non-union labor in some areas
- Billing rates (regular vs. OT)
- Workload level
- Fleet management
- · Client perception
- Local contractors perception
- Accounting process not designed for construction services billing

Questions and/or comments?









office furniture and equipment

labor employee benefits

shop rent and upkeep

vehicles management

TYPICAL OPERATING EXPENSES

supplies

support salaries

equipment

travel and training

tools

As an in-house unit, your warranty period may be much longer than an outside contractor

Questions and/or comments?

BILLING RATES

How do you set a budget for each project?

You must know your billing rates.

Billing rates rule of thumb

Recharge rates should be approximately twice the employee's direct wages

1x for the employees' direct wages

.35x for benefits

.25x for non-billable time

.40x for supervision and support

Estimating and bidding

- Estimating quantities and man-hours
- Client should be given the option to use or not use in-house services
- Bidding against the market
- Fixed price work (FP)
- Time and materials basis (T&M)
- Guaranteed maximum price (GMP)

Profit and loss

- Project profit/loss limits
- Overall profit/loss distribution
- Profit/loss carryover

What is an acceptable profit loss?

Scope creep

Incremental changes in the scope of work that eat into the "margin"

Change orders

Market niche

- What is your target market?
- Services offered and not offered?
- Practical and imposed project size limitations

AIA Continuing Education Provider

Explanation of AIA credits

Credit(s) earned on completion of this course will be reported to American Institute of Architects (AIA) Continuing Education Session (CES) for AIA members.

Certificates of Completion for both AIA members and non-AIA members are available upon request.

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

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Course description

Discuss effective processes and procedures for providing in-house construction services. Review staffing and organization, workload management and leveling, budgeting, recharge rate structures, billing procedures, and productivity and incentives to perform.

Faculty Member: Mark Stanis

AIA Continuing Education Provider

Learning objectives

- Discuss staffing and workload management
- Discuss effective processes and procedures for in-house construction services
- Discuss organization, budgeting, recharge rate structures, and billing procedures
- Discuss productivity and incentives

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