

- DATE February 9, 2012
- **FROM** Michael Jacobs, AIA, CID, LEED AP Principal Architect
 - **TO** Rob Knarr, PE (for distribution to NKU) Project Manager
- SUBJECT Campus Recreation Center Northern Kentucky University Highland Heights, KY

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COMMENTS: The focus group meetings convened at 8:30 am this date with representatives from the NKU maintenance and operations, faculty and staff, Campus Recreation staff and Students in Room SU 302 of the NKU Student Union, Otto Budig Theater and at Callahan Hall. NKU issued a "call-to-attend" for the focus group meetings for students, faculty, staff and alumni input on the design elements of a new recreation center. The notices were widely distributed and the times spread out between 8:30am to 7:00pm in order to have broad availability to the design team. NKU established the focus group sessions as part of the university's inclusive policy for input on the student funded facility.

M&O STAFF 8:30am - 9:30am SU 302

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:

- Response to images:
 - Lighting in high spaces will require the use of a lift. The weight of the lift to be used should be a consideration for the selection of the floor materials.
 - VAV boxes could be installed outside of classes/rooms so activity is not disturbed
 - Tony Hans discussed lighting used on U of L recreation facility. A 4'-O" fluorescent fixture was used that was a balance of light/lamp life/cost (had a cage on it for protection)



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- Steve asked about the use of LED lights. Tony Hans said that there are fixtures that are available as high bay fixtures but may not yet be cost effective
- Steve asked about the ability to maintain light levels through the use of light sensors. Tony Hans noted that light sensors were used at U of L and could be used at NKU
- Tony Hans noted that we could utilize "top" light (skylights or clerestory windows) in large spaces to reduce the need for artificial light
- Energy savings can be achieved through the use of frit glass and new types of solaban (high performance glass).
- CMTA will also study geo-thermal for heating of the swimming pool.
- Mike Jacobs asked if maintenance were having issues with the flooring, maintenance responded that the flooring was being affected by humidity
- Mary Paula noted on the temperature controls that came up in the group sessions from the day before (2/8/12) where there was a "hot" yoga class that was requested. CMTA to note during SD phase
- Low VOC paints were discussed for air quality
- Ventilation may need to be improved to remove certain smells from the building
- NKU uses T8 fixtures currently on campus
- Maintenance noted that there was difficulty in moving a lift through a building (example: elevator) and some consideration will need to be given to this issue during design
- Tony Has addressed meeting minutes from previous meeting and asked that the maintenance staff review the meeting minutes when they are issued and respond with any comments/concerns or questions. CMTA want to make sure all items that the design team need to be made aware of and considered for the new design are covered/noted in those meeting minutes. Refer to attachment for CMTA meeting minutes from February 2, 2012 meeting

FACULTY AND STAFF 9:30am - 10:30am SU 302

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What reasons do people have for having a membership elsewhere?

- Closeness to home
- Some people are uncomfortable working out with students



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What makes NKU special?

- It's safe

- A lot of growth in recent years
- The campus is very creative and innovative
- The campus is like a small community
- Small class sizes
- The faculty and students have a close relationship

If you have visited other recreation centers on other campuses what did you like about them?

- Miami, OH has a great pool
- UC's was dark and too big
- Hanover had a nice juice bar
- When NKU students visited UC's center the students were stunned, but thought the facility was dark
- Indiana state had a great pool
- Notre Dame had great intramural facilities

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:

Response to images:

- Would like to have wireless available on the new running track?
- Would prefer a soft track to alleviate potential knee problems
- Areas where people would be crossing the running track could be potentially dangerous
- The existing weight room tends to be dominated by men, so women are discouraged from lifting. Women would prefer a separation for types of exercises (heavy vs. light lifting)
- Mike Jacobs confirmed the goal that this project will be LEED Silver
- UK has existing and new spaces separated functionally. Students and faculty would prefer if this facility did not separate the two groups
- Would prefer that family changing rooms be added to the program so families do not have to use the same facilities as students
- Need more electrical outlets in the locker rooms at grooming stations
- Storage/cubbies would be very useful in new facility
- Would prefer if student and faculty locker rooms were physically separated in new facility
- Liked the thematic spinning classrooms
- Liked the meeting and multipurpose spaces to be available for hosting events
- Like the growth of the new facility but do not want large spaces as a trade off for multi-use spaces (too grand of spaces could take away from the intimacy of campus



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- There is not enough equipment available during peak times
- Would like parking availability to be addressed in the new design
- Would like an outdoor walking/running track to be considered
- Would like an outdoor space for socializing

INTRAMURAL FIELD 10:45am – 12:00am SU 302

All parties including intramural staff introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What is the use of the current field?

- Open recreation and softball only. All other intramural outdoor activity and club sport outdoor practice/activity occurs on field at soccer stadium. Soccer stadium does have lights and a fence.
- 2 existing softball fields
- 2 existing soccer/football fields
- Existing field does not have lights or a fence
- Existing field was a fill site for Interstate 275
- Majority of existing field will be removed due to proposed road construction that may begin in 2013
- Need synthetic fields not real grass due to constant activity
- Would prefer (2) 360'x360' fields for 4 soccer/football fields and/or 2 softball fields
- Would like to have a walking/jogging track or trail around the field
- Need enough room for a tilt up bleacher or could use a landscaping berm next to the field for people to sit on
- Need a fence around the entire area (fence to be black). 8'-0" Height?
- Need ample amount of parking
- Need lighting for the entire field (even across the entire field) possible lighting for the entire walking path
- Need to consider any neighbor issues.
- Would prefer the field to be as close to Johns Hill Road as possible (in proximity and elevation)
- Need restrooms in the equipment building next to the fields
- Building could become the entry point to the area (check-in)
- Would like to have wireless access for the entire area (could mount on light poles)
- Need plenty of storage in the building



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- Building will need to be heated. May consider through wall A/C or at least good ventilation
- No utilities are on the proposed site. CMTA will look at options for extending utilities
- Would like to have vending machines at storage building. Need to provide ample space for deliveries
- Could have a concession as a part of the storage building program
- Would like to have access to water at the field for a hose connection
- Would like to have security cameras at the field
- Would like to have a small scoreboard for basic score keeping
- There is not a need for a PA system at the field
- Need power connection for a possible stage set-up on the field
- Need to consider proper North/South orientation for the fields
- Mary Paula distributed the floor plan used at EKU. A 2000 sf facility something like this is anticipated. Refer to attachment

STUDENTS 1:00pm - 2:00pm SU 302

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What makes NKU special?

- Very personable

What are your likes/dislikes about the existing facility?

- There is limited space in the existing facility
 - The existing facility is disorganized
 - There is limited space for exercising
 - There is only one multipurpose room in the existing facility
 - The facility has limited hours, would prefer it stayed open later
 - Would prefer to have machines that were more interactive (ipod interaction/TV's)

If you have visited other recreation centers on other campuses what did you like about them?

- Illinois State had a rock wall and was very open
- UK was very open with a lot of windows. It was very well organized
- UC has a rock wall but it's located in a separate room

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:



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Responses to images:

- Some students did not know that there was a pool on the campus
- Would like to have a rock climbing wall over the pool
- Would like to have a recreation area in the new pool in addition to the lap pool
- Would like to have punching bags in a multipurpose room
- Would like to have a desk by the locker rooms to check out locks for lockers
- The check-in area needs to be bigger than the existing
- Bouldering could promote competition and socializing, more so than typical climbing
- The existing lockers do not have enough space for day use
- A family changing area outside of the locker room would be nice
- If a sauna/hot tub were added to the new facility it would be used.
- The new facility will need nearly 3 times the amount of lockers
- Secure day lockers would be better than the current scenario of people paying for lockers for a whole semester/year
- Would like to have a juice bar
- Would like an outdoor climbing/high ropes area at the field for team building challenges
- Would like the pool to be more open and easier access than the current pool
- Could use more lanes in the pool for students that use the facility (outside users limit options scheduling is problematic)
- Need to introduce more activity programs to make recreation center more successful

STUDENTS

2:30pm - 3:30pm

SU 302

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What makes NKU special?

- Feels like a small community
- Existing facility is utilized by families not just students

If you have visited other recreation centers on other campuses what did you like about them?

- UK has much larger spaces and weight training areas
- UC you didn't have to wait for a machine and offered more than one class at a time



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- U of L spaces were spread out, basketball courts were nice
- NC State was very broken up
- Murray State pool has glass and is more inviting

What are your likes/dislikes about the existing facility?

- Weight room is too small
- Racquetball courts can get crowded from 3-5pm
- Building is not recognizable as a recreation center

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:

Responses to images:

- Existing facility is very dungeon like
- New facility needs larger fitness rooms
- Exercise rooms could be a mixture of translucent/transparent glass for some privacy
 - Need to offer a variety of classes
 - Need sufficient lap lanes, add 1 more than what is at existing facility
 - Bouldering wall would be better than rock wall
 - New track could be more of an experience of the building and campus views
 - Need more secure lockers to try to alleviate theft
- Would like more leisure areas in pool in addition to the lap lanes
- The new pool needs to be ADA accessible
- Would like to have a breakroom for recreation center staff (need to plan for additional staff)
- Would like to have natural light in the pool area
- Would like the access to the pool to not go through the locker rooms

STUDENTS

4:00pm - 5:00pm

OTTO BUDIG THEATER

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What makes NKU special?

- Beautiful campus
 - Community campus



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- If you have visited other recreation centers on other campuses what did you like about them? - U of L was not good
 - UK was very open, had a variety of equipment, had a lot of natural light, had lockers in the hallways

What are your likes/dislikes about the existing facility?

- The pool is too small
- The existing facility is in poor condition
- Would like a bigger lounge area

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:

Responses to images:

- Would like an area for bike machines and a rock wall
- Like the idea of the M.A.C. spaces
- Would like to have more natural light in the new facility
- Would like a running track outside
- Would like to have storage/cubbies in the activity rooms
- Like the idea of the fruit bar, students pre-paid meal accounts could work on this
- The hot tub/spa area isn't necessary
- Is there the possibility of an indoor tennis court
- They do not have a place for soccer "free" play. Could schedule times in a M.A.C. space
- Would prefer to have necessary things included into the new recreation room like a bigger pool rather than a rock climbing wall
- Is there a possibility for bowling lanes to be considered in the project?

STUDENTS

6:00pm - 7:00pm

CALLAHAN HALL

All parties introduced themselves, whom they represented, and their role in the project. See attached sign in sheets, which include their email addresses.

Reed Voorhees, representing the design team, led the discussion with the NKU faculty and staff with the following questions and responses:

What reasons do people have for having a membership elsewhere?

- Some students belong to a crossfit gym because that is not offered at NKU



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What makes NKU special?

- Population has grown
- Unique style to the campus
- Not a small school, but not too big either
- Community environment
- President of the university greets students when they come back from trips

What are your likes/dislikes about the existing facility?

- The pool is too small
- The existing facility has cramped interior spaces
- The existing facility doesn't have any daylight
- Existing facility feels like a dungeon
- If intramurals are being played in the existing facility then there isn't any room left over

If you have visited other recreation centers on other campuses what did you like about them? - Cornell was a very open facility

Reed Voorhees reviewed Slideshow Images representing a broad range of current trends in recreation center design. These images were presented to promote discussion on key issues of importance to the NKU community the following responses were noted:

Responses to images:

- Would like to have better way finding in the new facility, the existing facility is like a labrynth
- Would like to see the track incorporated into multiple parts of the building. Would make running more of a procession
- Would like to have equipment check out and rental to save the students money
- Would like the outdoor obstacle course/high ropes area at the field
- Would like to have more social space (Lounge)
- Would like to have small pocket areas for stretching (warm-up/cool-down)
- Like the juice bar for the sale of smoothies, energy bars and health foods
- Would like an outdoor run/walk track at the field
- Would like to have privacy blinds in the exercise rooms as an option for women's activities



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The meeting adjourned at approximately 7:00 pm.

Meeting minutes have been prepared to establish a record of the meeting and information shared. The information presented herein shall in now way supersede or modify the Contract Documents. Should you have any questions, comments or corrections, please forward to Omni Architects within three days.

Attachments: Focus Group Sign-in Sheets (12 pages) CMTA Meeting Minutes (2.2.12) EKU athletic field storage building floor plan

CC:

Larry Blake NKU NKU Steve Nienaber Mary Paula Schuh NKU Michael Jacobs **Omni** Architects Don Adams Omni Architects Jay Copley Omni Architects George Nikolajevich Cannon Design Reed Voorhees Cannon Design David Body Cannon Design John McAlister Cannon Design Steve Crocker Counsilman-Hunsaker Tony Hans CMTA Peyman Jahed BFMJ Vivian Llambi VLA Mark Gillis The Sextant Group **Robert Pass** RP+A Correspondence File

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<u>Northern Kentucky University</u> <u>Campus Recreation Center Expansion/ Renovation</u> <u>MEETING MINUTES: MEP Kickoff / Owner Existing Conditions</u>

Date: February 2, 2012

Attendees:	Mary Paula Schuh	NKU
	Rob Knarr	NKU
	Paul Hundemer	NKU
	Steve Derrick	NKU
	Jeff Beker	NKU
	Larry Blake	NKU
	Arnold Duncan	NKU
	Bob Fox	NKU
	Jeff Noel	NKU
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CMTA Project: NRC11

A Programming meeting was held at NKU on February 2, 2012 to discuss existing building conditions. After the meeting, Duke Energy met with CMTA and NKU on site to discuss the potential relocation of the main campus gas meter and is discussed as item number 12 below.

The goal of the meeting was not to determine project scope or programming but to discuss existing problems/issues which may need to be rectified. The building, at 28 years old, was reported to never have operated well and has had issues during the first year of operation and every year since. The following items were discussed:

ESCO Project Scope completed in building by Siemens in 2004-2005:

1. Scope of entire project across campus was emailed from NKU after the meeting.

Campus Utlilities:

- 1. Central Chilled Water Plant Capacities- No redundancy in the chiller plant. Needs further review of main feed line sizes to Albright
- 2. Steam Plant- operates 12 months and capacity should be more than adequate
- 3. Electrical Service Primary switch showed no issues at the last testing. Primary electrical conductors to the building have recently been replaced.

MEP Systems:

- 1. MEP system standards to be provided by NKU.
- 2. LEED EA Credit 1
 - a. Need to be 24% below the ASHRAE baseline for 7 energy point. The minimum requirement of HB2 LEED silver.
 - b. ASHRAE Baseline for HVAC
 - i. Packaged rooftop VAV with reheat
 - ii. Cooling Type- chilled water- 10.8 EER, 10.1 IPLV
 - iii. Heating Type- fossil fuel boiler- 80%
 - c. NKU is open to geothermal for the pool and any energy recovery opportunities.

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- d. NKU is not interested in exploring any solar options at this time, unless the design team finds a good opportunity.
- e. Further study and meetings will be required to select system type for the expansion and how that system will interact with the systems in the renovation system.
- 3. LEED IEQ Prerequisite 1
 - a. Minimum requirements for ventilation per ASHRAE Standard 62.1-2007
 - b. Requires adding reheats to the terminal boxes in zones renovated.
- 4. 2^{nd} and 3^{rd} floors
 - a. Comfort Issues
 - i. The building HVAC system has never operated properly and significant occupant complaints.
 - ii. Over cooling rooms
 - iii. Humidity Issues
 - iv. END RESULT AFTER PROJECT: Occupants need to be comfortable
 - b. Zoning Concerns
 - i. Building occupancy and usage have changed and need to recalculated loads.
 - ii. NKU to provide inventory to use for load calculations
 - c. AHU Condition
 - i. Past equipment life (30yrs old)
 - ii. Owner expectation to replace the AHU's and the internally lined duct work
 - iii. internally lined ductwork is isolated to mechanical rooms to be verified
 - iv. Cooling Coils- design to a delta T- of 15 degree F
 - v. Vanes not replaced with a VFD
 - d. ASHRAE 62 minimum outside air requirements
 - i. Majority of work isolated to corridors and mechanical spaces. The
 - terminal units are located in the corridors.
 - e. Steam available year round
 - f. Chilled water supply has been as high a 60 deg F.
- 5. Lockers/ 1st floor

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- a. 100% outside air with recovery coil. Very inefficient, high energy usage
- b. Owners expectation to replace AHU.
- c. Heat recovery coil has glycol
- d. Locker room pressure- not considered an issue
- e. Existing ductwork condition acceptable
- 6. Pool
 - a. AHU condition: 3 year old Seresco Unit serving the space. Unit has the pool heat recovery hardware but not piped up to the pool heat exchanger. Stand-alone controls and various points wired to the BAS.
 - b. Pool Uses- temperature desired of 83 degrees typical with a range (81-85)
 - c. Heated with steam heat exchanger.
 - d. Open to geothermal for pool heating and any heat recovery that can be achieved.
 - e. Pool room pressure is a problem- Positive and at times blows the door open walking in.
 - f. Pool mechanical pumping room has poor ventilation and strong chlorine odor issues.
 - g. Pool is not level, leakage at the stainless steel drain.
 - h. Chlorinator has maintenance problems.
 - i. Need to remove the pool shed. Not used.

- j. Issues with the pool grouting.
- 7. Gyms
 - a. Comfort Issues- overcooling
 - b. Humidity issues- floors become slippery
 - c. Filters at grilles and at unit.
 - d. No fan performance issues
- 8. Chilled/ Hot Water Systems
 - a. 6" chilled water line was replaced due to corrosion.
 - b. If using central plant then a study will be required on the capacity and distribution requirements and capabilities.
 - i. 15 deg delta T coils will assist in distribution (flow)
 - c. VFD's on the chilled and hot water pumps.
 - i. 25 hp CW
 - ii. 7.5hp HW
 - iii. 5 hp pool
 - d. Some 2-way valves. Operates on DP
- 9. Multipurpose Room
 - a. AHU is to remain. CMTA to evaluate delta T for coil.
- 10. Plumbing
 - a. Plumbing standards to be provided by NKU.
 - b. Need to verify fixture counts and current code requirements
 - c. 1.6 gpf fixtures installed
 - d. Issues with aerators in sinks at recent construction projects. Coordinate with
 - NKU on type and mfg ā.
 - e. Pint urinals are acceptable
 - f. Newer steam domestic water heater. Need to study replacing with instantaneous
 - natural gas due to efficiency requirements associated with LEED
 - Existing shower heads are unacceptable. g.
- 11. Storm System
 - a. Pool mechanical pumping room floods during heavy rains.
 - b. Several clean-outs become flooded on the first floor throughout the building.
 - c. Need to study rain water harvesting- they do irrigate the grounds and are in need of water for irrigation.
 - d. Need to study infiltration basins for storm water.
- 12. Gas Service
- the second a. Gas metes adjacent to the building are being considered for relocating away from the entrance over the existing service pipes. The potential relocation site for the meter was discussed but will need to be determined.
 - b. Duke provided a very preliminary estimate for relocating the meter of \$15,000-\$20,000 plus the cost of replacement pipe to be total of \$40,000-\$50,000. The location would need to be determined so the amount of pipe to be replaced could be estimated. This would not include any of the in-project costs for dirt and wall removal or other work to be completed.
 - c. Manhole on the hill adjacent to the meters is 4.5' deep to the top of the manhole enclosure and 12' to the base of the manhole. Existing low voltage and primary electric occupy the underground conduits.
- 13. Electrical
 - T12s were replaced with T8s throughout the building in the ESCO product. a.
 - b. Occupancy Sensors were added to large areas throughout the building including classrooms, restrooms but not in locker rooms.

- c. <u>Ground wire issue:</u> The existing electrical system does not have a ground wire. NKU would expect the first floor would be replaced through the renovation and would prefer the second floor be replaced if possible. This scope will be divided into electrical receptacle replacement and lighting circuit replacement.
- d. 277/480V wiring in the building is improperly colored and, NKU has experienced it being required to be replaced during renovation when encountered.
- e. The existing meter is KW load only and will need to be replaced with an intelligent load and demand meter tied to the BAS.
- f. All utilities including water, steam and electric, shall me metered with intelligent meters tied to the BAS.
- g. Load shed options will be discussed during design.
- h. <u>Fire Alarm</u>: Existing EST System is hard wired and addressable. New renovation areas shall be voice evac. Second and third floor do not have strobes in classrooms and meeting areas. Existing Federal Signal mass notification system is located throughout.
- i. <u>Lighting</u>: Light fixtures to be studied. Gym fixtures were replaced with high bay fluorescent. University is currently using first LEDs on campus as trial.
- j. <u>Access Control</u>: Existing system is stand alone and is to be replaced. DSX System on campus typically.
- k. <u>Digital Surveillance:</u> Current small Pelco System in building, similar to campus wide system, NKU standard document will clarify
- 1. <u>Telecommunications:</u>

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- i. Wireless currently throughout.
- ii. Primax battery clock system is campus standard. Main repeater in Nunn.
- m. Lighting Protection: Existing to be amended for building addition.
- n. Power from Regents serves baseball field and will need to be located.
- o. Generator: Existing generator in northeast corner of upper gym area is NG with
- one transfer switch, original to building and will need to be replaced. A new
- location is preferred. New generator to be natural gas fired.
- p. Primary building ground tied to 6" water line has electrolysis/corrosion issues.

