# CAMPUS DESIGN REVIEW
**November 16, 2011**
**Primrose Hall Conference Room**

| | | |
|---|---|---|
| **Attendees:** | Robin Abrams | Sumayya Jones-Humienny |
| | Carolyn Axtman | Gayle Lanier |
| | Tim Blair | Jason Low |
| | Gene Bressler | Kevin MacNaughton |
| | Mike Davidson | Gerold Mohn |
| | Michael Harwood | Julie Sherk |
| | Lisa Johnson | Tom Skolnicki |

Additional Distribution: Jack Cozort, Chris Kingston, and Randy Ramsey

**Approval of the Minutes:**
The October 26, 2011 meeting minutes stand as presented and will be posted.

**General Business:**
Lisa Johnson noted that scheduling the 2012 meetings is in progress. She is polling the committee to verify whether Tuesday or Wednesday afternoons work the best for the majority.

**Projects for Review:**

1. **Dairy Museum Submittal #124 – New Project**
   Site Location: Lake Wheeler Campus, Intersection of Lake Wheeler Road & Dairy Lane
   Architect: HH Architecture
   Landscape Architect: OBS
   NC State Project Manager: Angkana Bode

   - The goal of this project is to create a new museum that houses exhibition, assembly and retail space plus associated toilet and storage space. New HVAC, plumbing, lighting, life safety, power and technology systems along with accessible parking and a new accessible route will be provided.
   - Kristen Hess gave an overview of the site and overall plan for phasing. Removal of the southeast corner of the existing building allows for the new 1,500 GSF addition.
   - Chevon File presented the impact to the site.
   - Materials include replacement of the entire building roof with metal roof, and new hardiplank siding and aluminum storefront on the addition.

   Discussion:
   Discussion ensued about the retail and other components. The retail will be for ice cream sales only; the exhibition space is 700 gsf and the assembly space will house about 30 people.

Carolyn noted that the Howling Cow logo on the patio may not be perceived on the ground (the presentation showed a plan view.) She asked whether people will want to eat ice cream outside if it smells bad.
Sumayya suggested using the grade of the knoll to display the logo more prominently. She also suggested that the return of the hardiplank siding where it meets the existing brick veneer should have more depth for the termination detail on the northwest corner.

Gayle asked who the target audience is and what will the signage be on Lake Wheeler Road. The general public, including school groups, plus the NC State community are the audience, and signage will definitely be needed for wayfinding as well as indicating public versus restricted areas.

Julie noted that the walk at the front door should be more generous to allow for a place to gather.

Action:
The Panel recommended **approval** of the design subject to the following design directives that will be followed through with the University Architect's Office:

1) The howling cow patio logo, as designed, will not be understandable except from the air. Re-design the patio and consider incorporating the logo in a different way.
2) Exterior signage should clearly identify the areas of the Dairy Education Unit that are open to the public versus the areas that are restricted.
3) New plant materials around the building should be representative of an agricultural setting.
4) Increase the width of exterior paving at the front entry.
5) Increase the depth (thickness) of the siding that returns over the existing brick wall to provide a better break between the two materials.
6) Final material selections should be based on field-erected sample panels and reviewed by the Office of the University Architect.

**2. Gregg Museum of Art + Design Submittal #123**
Site Location: North Campus, historic Chancellor's Residence, Intersection of Hillsborough St. & Pullen Rd.
Architect: The Freelon Group
Landscape Architect: Lappas + Havener
NC State Project Manager: Rachel Patrick

- The goal of this project is to relocate the Gregg Museum to the future Pullen Arts Plaza, thereby becoming the third venue with the existing Pullen Arts Center and the Theater in the Park. The master plan goals are to allow strategic views into the site from Hillsborough Street and Pullen Road, to design an addition that complements the existing residence, and to unify the landscape, which blends campus and park lands. It will also provide a meandering drive with a destination drop-off and parking for the Museum and the Pullen Arts Center.
- Derek Jones explained that this Museum becomes part of the existing arts facilities in the area and that the site is separated from Campus by Pullen Park. The design goals are

to make this site part of the Park, share parking with the City of Raleigh along the drive rather than in lots, and connect visually to the Bell Tower and to Hillsborough Street.

- Walt Havener described the proposed green space as sweeping around from Pullen Road to Pullen Memorial Baptist Church. A new plinth design feature is to unify the existing house with the addition by its grade and edge condition.
- A small plaza at Hillsborough St. is proposed at the entry sidewalk with opportunity for signage and a sculpture.
- There will be a rainwater collection cistern in the rear plus a bio-retention cell.
- The addition design intent is to "complement" the existing structure in its material,. while the massing, proportion and regulating lines of the existing are to inform those of the north and west facades of the addition.

Discussion:
The design provoked many questions and much discussion.

Mike Harwood questioned whether the re-established grade and new plinth around the house had pervious pavement. He also asked whether the meadow beyond the plinth was intended to be mowed and accessible. Is the meadow meant to be used for events? If so, should it be a lawn versus a meadow? Can the vehicular pattern be broken? He also noted the odd shape at the entry. Although this is reminiscent of the walled rear garden in plan, it will not be perceived as such in reality.

Gene asked if there were any provisions for using storm water for other uses. Can there be benches placed along the walks? What about pedestrian lighting and wayfinding signage?

Kevin noted that there is a large amount of pavement, which is counter to the direction the design needs to progress toward.

Mike Davidson asked if some parking could be eliminated or shared with Pullen Baptist Church. The answer is that the required parking needs have been met by sharing.

Tim was concerned about pedestrian paths crossing between parked cars – this needs to shift to avoid a dangerous condition. The lawn/meadow appear disconnected to the plinth. The approach to the front door is unclear.

Gayle asked if the intent was to make the addition look like an addition and not tie the new to the old. She believes that it needs to have a purposeful means of transition / separation and not look like different colored brick between the two.

Much discussion ensued about the intent of the word "complement". Mike Harwood noted that the word to Freelon appears to mean "contrast" rather than a counterpart that makes a composition whole. The addition contrasts effectively, but there is not enough detail in the referencing of paired windows, for example, or a sense of craft of the Georgian masonry that need to tie the two together. The design needs to celebrate the addition as an art piece.

Kevin commented that we don't want a box like the Ricks Annex. Tim indicated that the original house seems subservient to the addition. The addition is too much like the existing Gregg and needs more definition with bottom-middle-top development. Robin suggested that the brick needs to be a gradation, such that it makes it an art installation. Julie stated that it needs to take advantage of every opportunity to celebrate art.

Tim indicated that the massing of the addition seems out of proportion for pedestrians. The relationship to the garden seems awkward. The references to the regulating lines on the elevations are not apparent without being singled out. Mike Harwood noted that these lines are arbitrary and need a stronger connection to the existing house.

Sumayya noted that the entrance is so recessed as to be unclear. A thin, elegant canopy cantilevered from the northwest facade that reaches out to greet visitors could help announce the entry from either approach while providing a more human scale to pedestrians. The hierarchy of pavement is also unclear.

Carolyn stated that there should be a reduction in hardscape in front of the house. Julie indicated that the hardscape needs fine tuning.

Mike Harwood stated that the item that ties everything together – house, gallery, garden and meadow - is missing. The design needs more cohesion and integration.

Action:
The Panel recommended **resubmittal of the design addressing the following directives. (**Note: some of these directives were generated post-meeting.)

1) Reduce the amount of paving on the site, especially in the area between the new drive and the existing residence. Delete the arbitrary angled lines in the plaza paving. Consider alternatives to the plinth concept that better weave the Gregg Museum to the park context. Provide a collection of small winding paths in lieu of wide rectilinear paths. Also, consider removing the site wall along the large grass area and allow the grade to gently slope to the lawn. Provide an accessible path to the lawn.
2) Remove the turn-around and allow the drive to gently turn in front of The Gregg. This will reduce the paved area and allow for more planting in front of the addition.
3) Reduce the amount of paving adjacent to the entry drive at Hillsborough Street.
4) Consider shifting the drive to the north as it transitions to the Pullen Park property and relocate some of the parking spaces to the same side of the road as The Gregg. The existing path from Hillsborough Street should not pass between parking spaces for pedestrian safety reasons.
5) Remove the hedge along Hillsborough Street except around the grouping of equipment.
6) Consider removing the exterior raised patio along rear lobby. This would allow the grade to slope to the rear garden wall and would provide a better garden view from the lobby, plus it would eliminate the guard rails. The existing private garden should be the focus and main gathering space on the south side of the building.
7) Locate site amenities; bike racks, benches, lighting, etc.

**3. Alliance Center Submittal #95**
Site Location: Centennial Campus, Intersection of Main Campus Drive and Varsity Drive

Architect: Craig Davis Properties / Jenkins Peer Architects
Landscape Architect: OBS
NC State Project Manager: Mike Harwood

- Note: The previous iteration of the parking deck showed a 5-story structure with 943 parking spaces. This iteration shows it reduced to a 3-story structure with only 523 parking spaces due to cost issues.
- The goal of the project is to fulfill the master plan by providing parking needed for the Alliance Center project and vicinity. The Alliance Center will blend architecturally with its campus neighborhood and complement the Venture Center Complex. The prominent corner location is an opportunity to create an architectural focal point. The project includes pedestrian connections to the College of Engineering Building I.

Discussion:
Gerold asked about the rationale for permanently reducing the total number of parking spaces in spite of cost considerations. What does this do to long-range planning when Centennial Campus is built out? What will the traffic impacts be?

Tim asked where would parking for Alliance Building 2 and Building 3 go if not here?

Robin asked if the deck can do something other than just store cars. Can a solar array be put on the roof to produce solar energy for the grid or for charging stations? She stated that on principle she is against approving this project solely for the storage of cars, even though the architecture is good, as it goes against the Architectural 2030 Initiative.

Several questions were raised about the massing – could the deck footprint be shortened east to west to make the structure taller with the same reduced number of spaces and in keeping with the massing intended by the master plan? Although the location of the structure is consistent with the master plan, the 3-story massing looks too long and squat and is not in keeping with the surrounding buildings or the master plan intent.

Kevin and Sumayya stated that this would be a lost opportunity if the structure is not sized for levels 4 and 5 to be added in the future.

Action:
The Panel recommended **conditional approval** of the building design subject to the following design directives that will be followed through with the University Architect's Office:

1) The parking deck design was re-reviewed by the Panel due to the reduction of the size of the parking deck by two levels. The current deck design does not fully utilize the land area as projected by the master plan. Please design the deck foundation and structure to receive two additional parking levels to be bid as an alternate.
2) Investigate the use of a solar array at the top level of the deck to put this large parking footprint to better use.
3) Final material selections should be based on field-erected sample panels and reviewed by the Office of the University Architect.

**Status of Projects in Planning:**
L. Johnson noted that the Gregg Museum of Art and Design would be reviewed at the next meeting.

**Next Meeting:**

The next Panel meeting is To Be Determined from 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**October 26, 2011**
**Primrose Hall Conference Room**

| | | |
|---|---|---|
| **Attendees:** | Robin Abrams | Gayle Lanier |
| | Carolyn Axtman | Jason Low |
| | Tim Blair | Kevin MacNaughton |
| | Michael Harwood | Gerold Mohn |
| | Lisa Johnson | Tom Skolnicki |
| | Chris Kingston | |

Additional Distribution: Gene Bressler, Jack Cozort, Mike Davidson, Sumayya Jones-Humienny, Randy Ramsey, Julie Sherk

**Approval of the Minutes:**
The August 31, 2011 meeting minutes stand as presented and will be posted.

**General Business:**
Lisa Johnson welcomed the two School of Architecture students, Sarah Mann and Andrew Cherry, visiting the CDRP meeting. She also noted that she would be polling the committee to verify that Wednesday afternoons still worked the best for the meetings prior to scheduling the 2012 meetings.

**Projects for Review:**

**4. Varsity Gateway to Central Campus #122 – New Project**
Site Location: Central Campus, Intersection of Varsity Dr. & Western Blvd.
Landscape Architect: OBS Landscape Architects
NC State Project Manager: Lynn Swank

- The goal of this project is to create a new pedestrian and vehicular gateway on Central Campus at the intersection of Varsity Drive and Western Boulevard.
- This design incorporates standard gateway elements such as brick paving, masonry columns, iron work, and white flowering plants.
- Lynn Swank gave a brief introduction of the kit of parts that is used at campus gateways, and how some details such as metal work are coordinated to reflect the character of the precinct.
- Nicole Johnson presented the analysis that led to the recommended design. The northwest corner of the intersection is recommended due to several factors that affect visibility of the gateway, such as the setback created by Faucette Drive, the locations of existing utilities, trees and structures, pedestrian circulation, and vehicle cueing.
- Because of visibility issues and a narrow center median, the design team recommends the Central Campus precinct sign be located at the northwest corner of Varsity Drive

and Faucette Drive, and that the sign be single-sided. This location also affords a better backdrop of existing and new landscaping.

- To provide appropriate massing for the pedestrian gateway, two arbors are proposed, one on each side of Varsity Drive. The arbors will use the 9-foot columns along with anodized aluminum to create a gateway that is transitional, using a traditional structure to refer to older buildings on Central Campus, but detailing the metal in a modern way to reflect the progressive nature of NC State.
- The project will add campus standards for pedestrian lighting to the west side of Varsity Drive, and 30' poles on the east side of Varsity Drive.
- Street trees will be planted on both sides of Varsity Drive as well as in the center median to provide a smaller scale to the newly widened intersection. Additional plantings will provide flowering accents of white and red as a backdrop.

Discussion:
Regarding the arbor, several buildings in the neighborhood use metal on canopies. Look at Administrative Services III and the Environmental Health and Safety Buildings for cues regarding color and details of the metal arbor. Lighting on the arbors was discussed to add visual impact at night as well as for pedestrian safety.

Regarding the landscaping, look at how all six corners of the intersection north and south of Western Boulevard, and the center median of Western Boulevard, can be unified by plantings.

Regarding the center median in Varsity Drive, a detail that is more substantial than the 4-inch curb is needed to keep vehicles from crossing the brick median. Access to Wolf Village parking off of Faucette is a concern. Given the lack of a continuous sidewalk on Faucette Drive, there was a question about how pedestrians will use the designated crosswalks.

Action:
The Panel recommended **approval** of the gateway design subject to the following design directives that will be followed through with the University Architect's Office:

1. *Incorporate more white flowering plants in addition to the gateway sign street corner.*
2. *Investigate planting in the Western Boulevard right-of-way to better announce the campus entrance.*
3. *Consider adding some type of low barrier, other than bollards, at the brick median to impede vehicular crossings at Faucette Drive.*
4. *Review options that provide better access to the Faucette Drive Wolf Village student parking. Involve University Housing and Transportation in the discussions.*
5. *Consider lighting the column-arbor structures.*
6. *Final material selections will be reviewed and approved by the Office of the University Architect.*

**5. Method Field House #121 – New Project**

Site Location: Central Campus, Intersection of Ligon St. & Method Rd.
Architect: DHA Architects
Landscape Architect: OBS Landscape Architects
NC State Project Manager: Lynn Swank

- The goal of this project is to construct a building for University Recreation that incorporates toilets, storage, office space, and a concession area. In addition, the upper field will be renovated with new drainage system, irrigation, and sod. University Recreation will primarily use these fields and field house for Club Sports.
- This project follows the Recreational Sports Master Plan and is the second phase of development. The first phase of development, this past summer, renovated the lower field making it a high-end sand-based playfield. This project also follows the University Physical Master Plan: fields classified as a Natural System with connections to Neighborhoods and Shared Open Spaces; and a building that is human-scaled following architectural standards and NC State style.
- Dan Huffman presented the building design, which includes a brick base and continuous glazing between the base and the roof. This gives the roof the appearance of floating. The high glazing around the entire perimeter allows natural light into the toilet rooms and equipment storage areas without allowing views in.
- The building will act as a threshold for both play fields. The opening in the middle of the building creates an entry portal to the plaza that serves both fields.

Discussion:
The design was well-received.

Regarding the roof, the panel would like to see a natural aluminum color. Window mullions and metal panels should also use the same color.

Regarding the fence around the plaza, there was discussion about keeping the fence around the entire plaza to enhance physical security and so that all people experience arrival and exiting through the breezeway. Use the campus standard ornamental aluminum fence.

The row of shade trees on the east side of the path from Ligon Street could be extended south past the building to continue the rhythm of the trees and better anchor the building.

Action:
The Panel recommended **approval** of the building design subject to the following design directives that will be followed through with the University Architect's Office:

1. *Consider black aluminum fencing around the new entrance plaza similar to the perimeter fence at Derr Track.*
2. *Extend the shade trees south, along the walkway, past the plaza ornamental trees.*
3. *Window frames and metal panels should be anodized aluminum in lieu of a black finish.*

4. *Final exterior material selections will be based on field erected sample panels reviewed by the Office of the University Architect.*

**6. University Club Improvements #120 – New Project**

Site Location: West Campus
Architect: Winstead Wilkinson Architects
Landscape Architect: DHM Design
NC State Project Manager: Lisa Johnson

- Phase 2 of the University Club improvements includes an addition to the main building and a new freestanding pavilion. The main building addition includes 3,500 SF that will house a new 60-seat casual member dining room and a 60-seat member lounge. An aging existing solarium structure will be replaced. Both the new dining and lounge areas are situated to take advantage of views to the golf course and pastures. The new pavilion (39' x 76') includes 1,325 SF of interior space (snack bar kitchen, tennis pro office, tennis court restrooms) and covered seating areas. Site work includes additional parking and a dumpster enclosure.
- Phase 2 Improvements will complete the master plan for facility improvements. Phase 1, completed in 2010, involved an interior renovation of the existing facility, the addition of a new kitchen, new covered main entry, new playground, lap pool and new pool entry structure/pump house. Site improvements included a storm water pond/irrigation facility.

Discussion:
The design of the casual dining and atrium replacement was generally well-received. Comments focused on how the steps off the patio could be more gracious, providing a better scale for the massing of the addition and providing greater function for people to use the patio and adjacent green space.

The panel acknowledged that the design of the pavilion is a challenge since all four elevations have very active functions with the pool and tennis courts. The panel commented that the west elevation of the pavilion was stronger than the east elevation.

Regarding the east elevation, the panel felt that it contains too many elements, and that the design could use one of the elements to replace the arbor structure. The panel also commented that the layout of the walks and steps placed emphasis on the entrances to the toilet rooms.

Action:
The Panel recommended **approval** of the building design subject to the following design directives that will be followed through with the University Architect's Office:

1. *Provide day lighting for the pavilion toilet facilities.*
2. *Consider widening the stairs from the main building back patio to the golf course to provide easier access to the course and to events on the lawn.*

3. *Consider shifting the stair on the east side of the pavilion so the doors to the toilet facilities are not the focal point at the top of the stairs.*
4. *Incorporate a design element other than the wood trellis structure over the pavilion toilet room doors. Draw from architectural language that relates to the building design.*
5. *Final exterior material selections will be based on field erected sample panels reviewed by the Office of the University Architect.*

**7. Centennial Campus Student Housing – Building 1 Tower #114 – New Project**

Site Location: Centennial Campus
Architect: LS3P Associates
NC State Project Manager: Rachel Patrick

- Lisa Johnson noted that the Trustee's Buildings & Property Committee approved the plans for the Centennial Campus Student Housing Project at the September 2011 meeting but requested further design development of the tower element on Building 1 thus the reason it is back on the agenda for this meeting.
- Katherine Peele with LS3P discussed the changes to the Tower design since the last meeting, noting that the height of the tower has been reduced and the top of the tower reflects the rooflines of the buildings. At the base, the anodized aluminum metal grid has been lowered slightly to create a more human scaled entrance. The base of the metal grid also projects out to create a small canopy and a better way to finish the grid.
- The windows in the tower have been paired by using metal panel in between the windows so the windows have the appearance of one larger window which works better with the scale of the tower.
- The metal grid still increases in the spacing of the horizontal members going from bottom to top of the tower. Five thicker horizontal members has been added to the grid pattern giving the metal grid another layer of detail.

Discussion:
Regarding the lighting of the tower, the lighting in the graduate lounge and the adjacent terrace should complement the tower lighting. The entries under the tower appeared to be understated in the night rendering, and might be helped by additional lighting of the columns.

It was acknowledged that the team has worked to align many of the elements on Building One to help unify the elevations. Regarding the metal screen, the bottom of the metal frame on the tower appears as if it could be aligned with the canopy over the Bookstore entrance.

Action:
The Panel recommended **approval** of the building design subject to the following design directives that will be followed through with the University Architect's Office:

1. *The bottom of the tower metal screen wall should align with the bookstore entry canopy.*
2. *Provide architectural lighting to illuminate the tower columns.*
3. *Consider lighting options that work from both the interior and exterior of the student commons on the top level of the tower. The lighting of this space should compliment the exterior lighting on the tower.*
4. *Final exterior material selections will be based on a review of field-erected sample panels and approved by the Office of the University Architect.*

**Status of Projects in Planning:**
L. Johnson noted that the Gregg Museum of Art and Design would be reviewed at the next meeting.

**Next Meeting:**

**The next Panel meeting is scheduled for November 16, 2011 from 1:30 to 4:00 PM.**

# CAMPUS DESIGN REVIEW
**August 31, 2011**
**Primrose Hall Conference Room**

| **Attendees:** | | |
|---|---|---|
| | Robin Abrams | Lisa Johnson |
| | Carolyn Axtman | Chris Kingston |
| | Tim Blair | Gayle Lanier |
| | Gene Bressler | Jason Low |
| | Jack Cozort | Tim Luckadoo |
| | Mike Davidson | Gerold Mohn |
| | Michael Harwood | Julie Sherk |
| | Sumayya Jones-Humienny | Tom Skolnicki |

Additional Distribution: Kevin MacNaughton

**Approval of the Minutes:**
The May 25, 2011 meeting minutes stand as presented and will be posted.

**General Business:**
Lisa Johnson thanked CDRP members Tim Luckadoo and Ed Funkhouser (not present), who are moving off the committee this year, for their service on the CDRP. She gave a copy of the NC State Design Awards document to Tim as a token of her gratitude.

**Projects for Review:**

8. **Talley Student Center Addition and Renovation Technology Tower and Pedestrian Bridge #112 – Updated Project**
   Site Location: Central Campus
   Architect: Duda Paine Architects
   Landscape Architect: Cole Jenest and Stone
   NC State Project Manager: Sumayya Jones-Humienny

   - At its third time before the CDRP on 5/31/11, the building portion of the Talley Student Center project was approved. The project seeks approval at this review for the Pedestrian Bridge and Technology Tower.
   - As a reminder, the Pedestrian Bridge is being designed only through Design Development as part of the Talley project, but will be finalized through Construction Documents and constructed as part of the Broughton Hall renovation project.
   - Turan Duda presented a model, PowerPoint slides and sample materials for the Technology Tower and Pedestrian Bridge. He reiterated the tri-partite organization of the building: the existing building footprint will be the foundation representing the Social Science disciplines as the common link that joins the east and west wings of the building; the west wing represents the Natural Arts and Sciences disciplines; and the

east wing represents the Technological disciplines. The new Student Center reaches out to the four corners of the site to draw people in from all directions. The Technology Tower, at the NE corner of the Technology wing, is a new landmark for Central Campus and will be a destination point, taking on a role similar to that of the Bell Tower for the next century.

- The Technology Tower is 36' in diameter, 115' tall at the top of the steel structure, and 175' tall at the top of the spire. It will be constructed as a series of hoops that are prefabricated and assembled on site. The material will be painted steel.
- The east-west All-Campus path is designed to focus on the Tower and bike racks have been added at its juncture with the Tower.
- The Tower base bid scope includes basic up-lighting, but any additional LED Tower lighting and technology for the interactive billboard on the spire's fin will be designed and bid as add alternates, hopefully funded by donors for a naming opportunities.
- The Tower structure is designed with slip connections and dampeners to address oscillating movement.
- The Pedestrian Bridge walkway is designed to tell the story of the heritage of NCSU starting at the beginning by highlighting the significant people, discoveries and events starting on the north end of the bridge and ending with today's and tomorrow's discoveries at the tower. Future entries may be added along the Talley interior walk at that level.
- The designer provided responses to the 5/31/11 CDRP meeting building review comments as follows:
    - To include people on foot and bike, the bridge has been widened from 9'-0" to 12'-0" at the center.
    - The cross-sectional rail arc was also widened and the raised perforated metal screen over the railroad tracks provides more protection from people throwing things onto the tracks.
    - The bridge announces that one is on campus with its raised perforated metal screen pattern by incorporating the NC State logo on a large scale. The density of the sample shown will be reversed: the field will be less dense and the logo will be more dense so that the pedestrian experience is more visually open.
    - To discourage students from climbing the Tower, the base detail is streamlined (the pile cap is below grade) and the lowest hoop is out of reach. The elevator landings are set back from the structure as well.

Discussion:

Regarding the Tower, the Panel thought that another layer of detail is needed in the pavers at the base of the Tower to reflect the importance of the Tower. This solution should be quiet and elegant. An adequate number of bike racks are needed in the Tower vicinity. The question was asked: What is the Technology Tower? After some discussion about it reflecting technological construction innovation developed at NC State, it was clarified that it is also an element that communicates location as a landmark feature and information as an interactive community billboard. The committee suggested the development of a purpose statement for the Technology Tower that can be used in marketing. It is

recommended that digital banner be moved outside the Tower for better legibility. At the base of the Tower, flexible seating is preferred.

Regarding the Pedestrian Bridge, rain runoff on at the 4th Floor Talley building entry needs to be collected in a series of slots and the surface of the Bridge walk needs to be rough enough to be slip resistant when wet. When further developing the story line, it should be apparent that all accomplishments are not just technology or engineering related, but they should highlight all the different disciplines that NC State offers.

Action:
The Panel recommended **approval** of the Technology Tower and Pedestrian Bridge design subject to the following design directives that will be followed through with the University Architect's Office:

7. *Consider options that add another level of detail to the north plaza paving pattern. Look for opportunities to relate the paving pattern to the tower.*
8. *The technology banner, inside the tower, will be difficult to read through the tower structure. Develop alternatives for the banner location.*
9. *Provide additional bike racks at the northern end of the Talley site.*
10. *Ensure the pedestrian bridge has an adequate drainage design, especially the portion of the bridge that slopes towards the exterior elevator landing and building.*
11. *The timeline for significant accomplishments/discoveries, along the bridge and through the building, should include all disciplines.*
12. *Final exterior material selections will be based on mock-up panels reviewed and approved by the Office of the University Architect.*

**Status of Projects in Planning:**
L. Johnson noted there will be fewer projects coming to the Panel for review this next fiscal year and some meetings could potentially be canceled.

**Next Meeting:**

The next Panel meeting is scheduled for September 28, 2011 from 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**July 27, 2011**
**Primrose Hall Conference Room**

**Attendees:** Carolyn Axtman
Gayle Lanier
Gene Bressler
Kevin MacNaughton
Lisa Johnson
Michael Harwood
Mike Davidson
Randy Ramsey
Robin Abrams
Tim Blair
Tim Luckadoo
Tom Skolnicki

Additional Distribution: Ed Funkhouser, Gerold Mohn, Jason Low and Mike Davidson.

**Approval of the Minutes:**
The May 25, 2011 meeting minutes stand as presented and will be posted.

**General Business:**
CDRP member terms end for five committee member's this year; Lanier, Ramsey, Bressler, Funkhouser, and Luckadoo. Lanier and Bressler have been re-appointed and Jack Cozort has been appointed to replace Trustee-At-Large Ramsey. Appointments for the Faculty Member At-Large and the Central Campus Precinct Representative are pending.

M. Harwood reviewed the Developer Design Team selection process and how it differs from the standard designer selection process.

**Projects for Review:**

**9. Centennial Campus Student Housing #114 – Updated Project**
Site Location: Centennial Campus
Architect: LS3P Associates
Landscape Architect: Cole Jenest Stone
NC State Project Manager: Rachel Patrick

- This was the third Panel review for the CC Student Housing project.
- The new student housing complex will provide about 1195-beds in apartment-style, housing. The project will complete the eastern edge of and define the middle section of The Oval. Pedestrian connections from The Oval through the site and east to the future

Main Campus Drive extension are included in the project. A 20,000 GSF dining facility, the Oval Marketplace, will be located in the building that faces The Oval (Building 1) and will include an exterior plaza with outdoor seating. The project will achieve a minimum of LEED Silver certification.

- A portion of the Main Campus Drive extension road work is included in the project. Surface parking will be located adjacent to the housing buildings. Extension of thermal utilities, electrical/telecommunications duct bank and water/sewer services are included.
- The housing site is an important complement to the Oval. The addition of residential and food service facilities will complement the existing lecture halls and laboratories in the Engineering buildings, and the library and gallery space at the Hunt Library to create a mixed-use neighborhood. The building on the Oval, Building 1, will face the middle terrace of the Oval. As the visual terminus of the All Campus Path from College of Textiles, Building 1 has the opportunity to incorporate a landmark feature near its southwest corner.
- The design team reviewed the design changes that resulted from the previous CDRP comments. The path hierarchy, progression through the site, and site lines have been revisited and improved. Building 6 has been sifted west so that its entry element is the visual terminus of entry path between Buildings 1 and 2.
- The building elevations have been redesigned to include more variety, human scale and residential qualities. The elevations include balconies, bay windows, and the use of two different color brick. The exterior is mostly brick but includes metal panels, precast concrete and a high performance exterior material, with a wood appearance, called Trespa. A fiber cement exterior panel system, called Nichiha, may also be used on the penthouses. The Nichiha is intended to match the color of the Trespa. The window frames and storefront will be clear anodized aluminum.
- The Building 1 tower element will be the focal point along the All Campus Path from the Hunt Library. The tower design has been updated. The majority of the tower will be Trespa behind a high-tech aluminum frame. The frame gets lighter with less horizontal members toward the top. The base of the tower includes four, round, precast columns.

Discussion:

The Panel appreciated the effort the design team made in response to the previous CDRP comments and thought the design was greatly improved. The Panel encouraged the design team to make the sustainable elements in the project more transparent so they can be used as teaching tools for the residential community. Planning for wayfinding and site furniture should happen early in the design process. There was discussion regarding the need for You-Are-Here maps at a couple of locations at the perimeter of the site. The Panel had concerns about the Trespa and Nichiha materials fading differently over time and recommended this be further investigated and detailed so they work well together – how these two materials meet and interface is important. The Panel thought the Trespa material/wood appearance provides a nice residential feel. The base brick was discussed and the Panel felt that it may get too tall on some of the buildings where there is a significant grade change along the long building elevation.

Action:
The Panel recommended **approval** of the building design subject to the following design directives:

1. *Consider options for making the sustainable design elements in the project more transparent so they can be easily used as an educational opportunity.*
2. *The building base brick appears too tall or out of proportion on the buildings that have large grade changes from one end to the other. In these cases, consider options for stepping the base down with the grade so that it is a more consistent height.*
3. *Provide opportunities for shade trees at the plaza south of the building 1 tower element. Locate shade structure opportunities on the site plan that can be incorporated in the future.*
4. *Consider different shapes for the vertical elements on the tower screen wall.*
5. *Final exterior material selections will be based on a review of field-erected sample panels and approved by the Office of the University Architect.*

**10. The Greens at Centennial Campus #119 – New Project**

Site Location: Centennial Campus
Architect: Humphreys & Partners Architects
Developer: Capital Associates
NC State Project Manager: Brian Jones

- This was the second panel review for the project.
- The Greens project is a market rate, 292-unit apartment complex (272,700 GSF) with a clubhouse that includes a business center, fitness room and swimming pool. There are 60 private garages that help make up the 479 parking spaces for the site. The buildings vary in height from three to five levels working with the site topography. There are one and two bedroom units with a variety of floor plan layouts. Each building has a central courtyard with covered community space that can be used for social events. This will be an Energy Star sustainable community.
- This project provides housing options to help enrich the diversity of people living on Centennial Campus while contributing to the university's City of Raleigh zoning obligation to provide 3 million square feet of housing. The target market is the faculty, staff and campus partners that work on Centennial Campus.
- The project will strengthen pedestrian connectivity along Centennial Campus Drive and Main Campus Drive with sidewalks. It will promote the concept of walking communities with the proximity to retail located in the future Town Center.
- The Developer/design team noted that their design is economically viable in this non-student apartment submarket because the buildings are limited to three and four levels; all the parking is surface parking; the building layouts are efficient; the ground rent is market rate; and the buildings and parking have been carefully designed to work with the topography. A recent market study has confirmed the viability of this design.
- The revised site plan includes the addition of permeable pavers for the parking spaces on both sides of the clubhouse and in the parking spaces adjacent to the storm water BMP's. The retaining walls around the perimeter of the site have been redesigned to

step down with the grade to lessen the visual impact. The garage locations have been shifted to allow for views towards Lake Raleigh.

- Building elevations: The balconies have been increased to six in seven feet deep to allow for exterior furniture. The metal parapet has been replaced with a more detailed EIFS cornice (more depth and related shadow lines). The building material include: red-flashed brick, painted EIFS (exterior insulation finishing system) wall cladding, metal trim/accents, and aluminum windows.
- The clubhouse includes an EIFS wall over a brick base and a shingled roof with some flat roof elements at two corners of the building. A metal tube trellis element connects the main entrance to the pool deck.

Discussion:
The Panel thought the design team should explore changing the exterior paint color in sections of the buildings to provide more character to the elevations. The Panel thought the metal cornice detail at the corners of the buildings was too heavy and didn't blend well with the rest of the elevation design. The question was raised as to whether or not the clubhouse could be moved to the center of the site and the design team explained that the current site is close to the main entrance, so easy to find, and has views to the golf course and lake views in the winter. Consideration for a play ground was discussed and the design team noted that this could be added later, if there was demand for it.

Action:
The Panel recommended **approval** of the building design subject to inclusion of the below design directives. R. Abrams abstained from voting on the project.

1. *Study varying the exterior siding paint color, in sections, as the building height changes to provide more of a 'row house' type appearance. Also, consider options for changing the brick base between these same sections of the building.*
2. *Verify whether or not the width of the road can be reduced with the goal of increasing the planting areas/pervious area on the site, as much as possible – taking into account the City's requirements for fire truck access and safe parking movements.*
3. *Consider other design alternatives for the parapet at the corners of the building. The metal tube trim appears heavy and the parapet is too tall.*
4. *Final exterior material selections will be based on a review of field-erected sample panels and approved by the Office of the University Architect.*

**Status of Projects in Planning:**
L. Johnson noted there will be fewer projects coming to the Panel for review this next fiscal year and some meetings could potentially be canceled. Next month one project will be reviewed the Talley Technology Tower and Pedestrian Bridge. She reminded the Panel that the Talley Building approval did not include the tower and bridge design.

**Next Meeting:**

The next Panel meeting is scheduled for August 31, 2011, 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**May 25, 2011**
**Primrose Hall Conference Room**

**ATTENDEES:** Carolyn Axtman
Gene Bressler
Jason Low
Kevin MacNaughton
Lisa Johnson
Michael Harwood
Mike Davidson
Randy Ramsey
Robin Abrams
Tim Blair
Tim Luckadoo
Tom Skolnicki

Additional Distribution: Ed Funkhouser, Gayle Lanier, and Gerold Mohn.

**Approval of the Minutes**

The April 27, 2011 meeting minutes stand as presented and will be posted.

**11. The Greens at Centennial Campus #119 – New Project**

Site Location: Centennial Campus
Architect: Humphreys & Partners Architects
Developer: Capital Associates
NC State Project Manager: Brian Jones

- The Greens project is a market rate, 292-unit apartment complex (272,700 GSF) with a clubhouse that includes a business center, fitness room and swimming pool. There are 60 private garages that help make up the 479 parking spaces for the site. The buildings vary in height from three to five levels working with the site topography. There are one and two bedroom units with a variety of floor plan layouts. Each building has a central courtyard with covered community space that can be used for social events.
- This project provides housing options to help enrich the diversity of people living on Centennial Campus while contributing to the university's City of Raleigh zoning obligation to provide 3 million square feet of housing. The target market is the faculty, staff and campus partners that work on Centennial Campus.
- The project will strengthen pedestrian connectivity along Centennial Campus Drive and Main Campus Drive with sidewalks. It will promote the concept of walking communities with the proximity to retail located in the future Town Center.
- This will be an Energy Star sustainable community.

Discussion:
The Panel discussed the site layout and the proportion of green space to impervious area. The Panel questioned whether or not the parking could be handled differently than surface parking, possibly structured parking tucked under the buildings. The design team explained that structured parking would not be economically viable from a financial standpoint for market-rate apartment housing. The Panel challenged the design team to look for options to increase the pervious area of the site. There was discussion regarding the garages and the Panel felt that the location of some of the garages would possibly block views from the site to Lake Raleigh. The Panel thought that some of the retaining walls that face campus streets were too high and requested that options be explored to minimize the height. It was noted that the Panel understands that the financial model needs to work for this project to proceed but it is a project on the NC State University campus and should relate to the campus context and be a step above other market based multi-family rental housing.

Action:
The Panel had the following comments:

1. *Consider design options to minimize the visual impact of the surface parking as well as options for increasing the pervious area of the site.*
2. *Provide more information regarding sustainable design features for the site and buildings.*
3. *Provide more information regarding the design of the courtyards.*
4. *Shift the garages located along the west side of the site that block views from the site to Lake Raleigh.*
5. *Consider increasing the depth of the balconies so that they are more useable.*
6. *Address the impact of the tall retaining walls around the site with plantings or by using lower retaining walls stepped in sequence.*
7. *Provide a planting plan.*
8. *Building elevations: Explore options for the detail at the top of the buildings other than the applied banding.*
9. *Clubhouse: Consider a less traditional design.*
10. *Provide samples of the exterior building materials.*

**12. Talley Student Center Addition & Renovation #112 – Updated Project**
Site Location: Central Campus
Architect: Duda Paine Architects
Landscape Architect: Cole Jenest Stone
NC State Project Manager: Sumayya Jones-Humienny

- The project will build about 123,000 gross square feet (GSF) of additions to the existing facility, and will comprehensively renovate the existing 169,000 GSF building. The 292,000 GSF total project will include space for student organizations, expanded meeting and ballroom functions, and a variety of dining venues, a two level bookstore, lounge/gaming areas and offices.

- The designer provided responses to the 3/30/11 CDRP meeting building review comments.
- The technology tower and pedestrian bridge design were presented in detail for the first time. The review and approvals for these two elements are lagging behind the building design and reviews. The pedestrian bridge is being designed through Design Development as part of the Talley project but will be constructed with the Broughton Hall renovation project.
- The pedestrian bridge will start at grade near Broughton Hall (north side of the railroad tracks) and extend south to the 4th floor of the Talley Student Center addition terminating at the technology tower. The designer proposes highlighting significant campus discoveries in the bridge walk, starting with the earliest discovery dates on the north end of the bridge and ending with today's and tomorrow's discoveries at the tower. The bridge is envisioned to be fairly streamline, a simplistic design, allowing most of the design emphasis to be on the iconic tower. The bridge is 9 feet wide and has lighting in the handrails.
- The technology tower is envisioned to be a woven metal iconic element that will counter the iconic Memorial Bell Tower on north campus. The tower would be lit at night and would act as a wayfinding beacon. Some type of interactive display board or screen (vertical element/glass fin) is also being considered. The technology for the board has not been determined but the design team is consulting with the College of Engineering and College of Design. This display screen or fin could also be used for displaying major campus messages and/or events. A glass elevator will be inside the tower. The elevator will be large enough for bikes.

Discussion: The Panel thought that the addition of brick and terra cotta tiles around the main entrance on Cates Avenue helped tie the two wings of the building together. The Panel also liked the changes to the one-story south addition; the reduced foot print, the canopy/sun screen re-design and the metal guardrails in lieu of glass rails. The bridge width was questioned and the Panel thought 9 feet was too narrow for a major pedestrian walkway that would include people on foot and bike. The design team indicated that it would be tough to widen the bridge at the technology tower. The Panel thought the bridge should announce that you are on campus. It should in some way reflect NC State University. The center of the bridge may need protection so that people can't easily throw things on the railroad tracks. The Panel thought students might be tempted to climb the tower and wanted to make sure that it was designed in a way that discouraged climbing. It was also noted that something special should happen at the base of the tower.

Action:
The Panel recommended **approval** of the building design subject to the following design directives:

7) *Investigate dividing the glazing into smaller sections above the main entrance to add another level of detail.*
8) *Final exterior material selections should be based on field-erected sample panels and reviewed by my office.*

The Panel did **not** approve the associated tower element and pedestrian bridge since this was the first design review of these elements. The Panel had the following comments:

13. *Explore opportunities for something special to happen at the base of the tower.*
14. *Increase the bridge width to around 12 feet. Nine feet wide is too narrow to accommodate bikes and pedestrians comfortably.*
15. *Consider how the technology tower will adapt over time so it won't be seen as the 'old technology tower' in the future. Infrastructure should be provided that allows for this flexibility.*
16. *Address safety concerns of students wanting to scale the tower.*
17. *Provide samples of all exterior materials.*

**13. Carole Johnson Poole Clubhouse #116 – Updated Project**

Site Location: Centennial Campus
Architect: Cline Design Associates
NC State Project Manager: Charlie Marshall

- This project will provide a new mixed-occupancy, two-story clubhouse building of approximately 30,000 GSF and associated site improvements. Primary occupied spaces include dining & lounge areas, locker rooms, academic/classroom space, office & meeting space and University athletics space for the NCSU Golf Teams. A full commercial kitchen and a secondary snack bar are included. Electric golf carts shall be stored and charged in the lower level. The Project will pursue LEED Silver Certification.
- This new facility will replace the temporary modular building now serving as the clubhouse. This facility will provide interior and exterior hearth space.
- The designer provided responses to the March 30, 2011 CDRP meeting review comments.

Discussion: The Panel thought the revisions at the main entrance lobby provided a better entry sequence. The Panel also noted that the relocation of the exterior pro shop stair from the northwest corner (front) of the building to the southwest corner (rear) of the building was an improvement. The Panel discussed the importance of vehicular entry sequence and recommended the design team explore options for reducing the number of parking spaces between the entry drive and putting green and to consider other options for storm water management other than adjacent to the entrance drive.

Action:
The Panel recommended **approval** of the building design subject to the following design directives:

1. *Consider decreasing the number of new parking spaces to provide a more pleasant entry sequence.*

2. *Consider handling storm water on the north side of Main Campus Drive rather than adjacent to the entry drive.*
3. *Final exterior material selections should be based on field-erected sample panels and reviewed by my office.*

**14. Kappa Delta Sorority House #118 – Updated Project**

Site Location: South Campus
Architect: Winstead Wilkinson Architects
NC State Project Manager: Lisa Johnson

- The 16,000 GSF Kappa Delta House will house about 40 members in a combination of one, two and three student bedrooms. The project includes living, dining, commercial kitchen operation, and study spaces plus exterior porches and patio space. The house will be located on Lot 3 in Phase 1 of the Greek Village redevelopment.
- Greek Village Phase 1 includes four house lots with associated parking. The Kappa Delta house will be the first new house in this redevelopment.
- The Kappa Delta house is in keeping with the Greek Village master plan, which envisioned the sorority and fraternity houses facing in towards the large campus green to create a sense of community with the majority of the parking behind the houses.
- Two levels of the house have at grade entrances; the first floor entrance at the rear of the house from the parking lot and the second floor entrance at the front of the house.
- There will be a private courtyard between the house and the parking with a water feature to help buffer noise from the vehicular parking.
- The designer responded to the April 27, 2011 CDRP meeting comments.

Discussion: The panel encouraged the incorporation of sustainable design features. It was noted that this first new house, in the Greek Village Redevelopment, has the opportunity to set the standards for the rest of the houses. There was discussion regarding the grade transition from the front of the house to the rear (about 10 feet). The slope should be kept as gentle as possible so that it is easy to maintain.

Action:
The Panel recommended **approval** of the building design subject to the following design directives:

1. *The Panel requests that consideration be given to incorporating sustainable design principles, such as improved energy efficiency, into the project.*
2. *Final exterior material selections should be based on field-erected sample panels and reviewed by my office.*

**15. Next Meeting:**

The next Panel meeting is scheduled for July 27, 2011, 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**April 27, 2011**
**Primrose Hall Conference Room**

**ATTENDEES:** Carolyn Axtman
Gayle Lanier
Gerold Mohn
Jason Low
Kevin MacNaughton
Lisa Johnson
Michael Harwood
Mike Davidson
Randy Ramsey
Robin Abrams
Tim Blair
Tim Luckadoo
Tom Skolnicki

Additional Distribution: Ed Funkhouser, Gene Bressler, and Robin Abrams

**Approval of the Minutes**
The March 30, 2011 meeting minutes stand as presented and will be posted.

**1. Centennial Campus Student Housing #114 – Updated Project**

Site Location: Centennial Campus
Architect: LS3P Associates
NC State Project Manager: Brian Jones

• This was the second Panel review for this project.
• The new student housing complex will provide about 1190-beds in apartment-style, housing. The project will complete the eastern edge of and define the middle section of The Oval. Pedestrian connections from The Oval through the site and east to the future Main Campus Drive extension are included in the project. A 20,000 GSF dining facility, the Oval Marketplace, will be located in the building that faces The Oval (Building 1) and will include an exterior plaza with outdoor seating. The project will achieve a minimum of LEED Silver certification.
• A portion of the Main Campus Drive extension road work is included in the project. Surface parking will be located adjacent to the housing buildings. Extension of thermal utilities, electrical/telecommunications duct bank and water/sewer services are included.
• The housing site is an important complement to the Oval. The addition of residential and food service facilities will complement the existing lecture halls and laboratories in the Engineering buildings, and the library and gallery space at the Hunt Library to create a mixed-use neighborhood. The building on the Oval, Building 1, will face the middle terrace of the Oval. As

the visual terminus of the All Campus Path from College of Textiles, Building1 has the opportunity to incorporate a landmark feature near its southwest corner.

Discussion:
The Panel thought that the large drop in grade between the Plaza and the Green was a lost opportunity for drama and a more effective amphitheater. The Panel discussed the exterior elevations and the lack of detail needed to give the buildings a residential character. The Panel thought that the buildings were fairly unfriendly and unwelcoming. They suggested more detail at the cornice line and around the windows. The large facades need to be broken down into smaller human-scale elements. The entrances, at Building 2 through 6, need to be more welcoming also. The tower at building 1 still needs further refinement – needs to be a landmark feature. The Panel requested the next submittal include the north elevation of Building 1. This elevation includes the loading dock/equipment yard and faces EBIII.

Action:
The Panel had the following comments:
*1. The Panel felt that the exterior elevations are still too stark and industrial feeling. The facades are missing the human scale detail that makes them feel residential, friendly and inviting. Provide more variations or breaks in the façade and more detail at the windows. The larger expanses of glazing could use more mullions, added detail. Consider breaking the cornice line and/or adding overhangs to create shadow lines.*
*2. The main entrances, for buildings 2 through 6, need to be more inviting and welcoming. Consider other entry canopy options that include ample protective covering, non-flat roof forms, and identifying architectural features (columns, wall seats, or porches, for example).*
*3. The symmetrical column layout for the Building 1 tower was preferred. Consider eliminating the windows on the north side of the tower. The precast panels at the top of the tower should not align with the brick roof line, either lower or raise the precast terminus.*
*4. Look at options to create more drama and better sight lines in the exterior amphitheater area between buildings 2 and 6.*
*5. Cluster the small group, intimate seating around building entrances.*
*6. Provide samples of exterior building materials.*

**2. Kappa Delta Sorority House #118 – New Project**

Site Location: South Campus
Architect: Winstead Wilkinson Architects
NC State Project Manager: Lisa Johnson

• The 16,000 GSF Kappa Delta House will house about 40 members in a combination of one, two and three student bedrooms. The project includes living, dining, commercial kitchen operation, and study spaces plus exterior porches and patio space. The house will be located on Lot 3 in Phase 1 of the Greek Village redevelopment. Phase 1 includes four house lots with associated parking. The Kappa Delta house will be the first new house in this redevelopment.
• The Kappa Delta house is in keeping with the Greek Village master plan, which envisioned the sorority and fraternity houses facing in towards the large campus green to create a sense of community with the majority of the parking behind the houses.
• Two levels of the house have at grade entrances; the first floor entrance at the rear of the house from the parking lot and the second floor entrance at the front of the house.
• There will be an enclosed courtyard between the house and the parking with a water feature to

help buffer noise from the vehicular parking.
• Tim Luckadoo presented the Greek Village Design Guidelines. They apply to any construction or improvement of the sites included within Greek Village. They identify elements and requirements to be included in the design and siting of houses. Design reviews by the Campus Design Review Panel, Greek Housing Association and the City of Raleigh are required.

Discussion: The panel discussed access to the porches from the second and third levels and that this access should be via doors in lieu of bedroom windows. The designer explained that the floor plans were still being reworked and the porch access would be resolved. There was discussion regarding the service entrance to the house and the need to locate that entrance on the site plan. The Panel was generally pleased with the architectural character of the house.

Action:
The Panel had the following comments:
*1. The Panel preferred the full third floor porch in lieu of the Juliette balcony on the rear elevation. Provide access from the interior to the rear porches.*
*2. Re-evaluate the window placements on the side elevations and align windows vertically.*
*3. Locate the service entry and access on the site plan.*
*4. Verify the storm water management requirements for the site and address how maintenance will be handled if the storm water devices straddle lot lines.*
*5. Provide samples of all exterior materials.*

**3. Terry Memorial Artwork #117 – Information Item**

Site Location: West Campus
Artist: Jim Sardonis
NC State Project Manager: Thomas Skolnicki

• This project will create and install a memorial art piece in honor of Randall B. Terry Jr. near the Randall B. Terry Jr. Companion Animal Veterinary Medical Center on the Centennial Biomedical Campus. A selection committee reviewed qualifications from 33 artists and invited four finalists to campus. The finalists each submitted a proposal for consideration, and the committee selected Jim Sardonis' proposal for "Swimming Retriever."
• The site for the art project is in the CVM College Hearth, at the crossroads of two prominent paths. The location for this art was approved as part of the site plan for the Randall B. Terry Jr. Companion Animal Veterinary Medical Center.

Discussion:
The Panel discussed that the scale and composition of the art will be surprising upon first encountering the site, but that the more they studied it, the more they understood and appreciated it. The panel commented that the scale model that Jim Sardonis brought showed thoughtful detailing. The sculpture design and a sample of the selected granite were generally well-received.

Action:
*This project was presented as an information item only and no action taken.*

**4. Next Meeting:**

The next Panel meeting is scheduled for May 25, 2011, 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**March 30, 2011**
**Primrose Hall Conference Room**

**ATTENDEES:** Carolyn Axtman
Ed Funkhouser
Gerold Mohn
Jason Low
Kevin MacNaughton
Lisa Johnson
Michael Harwood
Mike Davidson
Randy Ramsey
Robin Abrams
Tim Blair
Tim Luckadoo

Additional Distribution: Gayle Lanier and Gene Bressler

**Approval of the Minutes**

The February 23, 2010 meeting minutes stand as presented and will be posted.

**16. Centennial Campus Student Housing #114 – New Project**

Site Location: Centennial Campus
Architect: LS3P Associates
NC State Project Manager: Brian Jones

- The new student housing complex will provide 1150-beds in apartment-style, undergraduate student housing located on the east side of The Oval. Buildings on the perimeter of The Oval providing the framework for the activities within the open space. This project will complete the eastern edge of and define the middle section of The Oval. Pedestrian connections from The Oval through the site and east to the future Main Campus Drive extension are included in the project. A 20,000 GSF dining facility, the Oval Marketplace, will be located in the building that faces The Oval and will include an exterior plaza with outdoor seating. The project will achieve a minimum of LEED Silver certification.
- A portion of the Main Campus Drive extension road work is included in the project. Structured parking will be located adjacent to the housing buildings. Extension of thermal utilities, electrical/telecommunications duct bank and water/sewer services are included.

- The housing site is an important complement to the Oval. The addition of residential and food service facilities will complement the existing lecture halls and laboratories in the Engineering buildings, and the library and gallery space at the Hunt Library to create a mixed-use neighborhood. The building on the Oval, building 1, will face the middle terrace of the Oval. As the visual terminus of the All Campus Path from College of Textiles, Building 1 has the opportunity to incorporate a landmark feature near its southwest corner.

Discussion:
The Panel discussed the need for adequate and convenient locations for trash, recycling and other services. Providing space to handle move-in and move-out operations is needed. There was also discussion regarding the appropriateness of balconies facing the Oval. The size of the balconies, and their detailing, may need to be refined so that they do not become places for storing random materials and objects that are unsightly.

Action:
The Panel had the following comments*:*
***1)*** *Students will more than likely want to walk from Building 4, through the natural wooded area, to the Hunt Library. Indicate future greenway paths through this area.* ***2)*** *The elevations appear stark and are missing the level of detail that adds interest and human scale, on buildings 2 through 6.* ***3)*** *The Building 1 tower/iconic element needs further refinement.* ***4)*** *Consider breaking the roof line on Building 1 similar to the other buildings to relieve the continuous cornice.* ***5)*** *Buildings 2 through 6 covered entrances need to be deeper to provide adequate protection from the elements. These entrances should be human scale and welcoming.* ***6)*** *Consider glass/windows in the stairwells to articulate the exterior and to provide views from and natural light to the interior.* ***7)*** *Provide more information as to how building services, trash and recycling will be handled.* ***8)*** *Provide opportunities for exterior intimate gatherings. Insure easy access to all buildings.* ***9)*** *Provide samples of exterior building materials.*

**17. Talley Student Center Addition & Renovation #112 – Updated Project**
Site Location: Central Campus
Architect: Duda Paine Architects
NC State Project Manager: Sumayya Jones-Humienny

- The project will build about 114,000 gross square feet (GSF) of additions to the existing facility, and will comprehensively renovate the existing 169,000 GSF building. The 283,000 GSF total project will include space for student organizations, expanded meeting and ballroom functions, and a variety of dining venues, a two level bookstore, lounge/gaming areas and offices.
- The designer provided a response to the 2/23/11 meeting review comments.

Discussion:
The Panel discussed that with the removal of the short term parking on Dunn Avenue, some existing parking near Wolf Plaza may need to be identified to allow visitors convenient access to the sculptures. The proposed free-standing canopy near the northwest

corner of Reynolds Coliseum is unnecessary given that the existing canopy at Reynolds Coliseum can provide cover when needed. In the space between Talley and Reynolds, there seems to be too much pavement, and that additional planters adjacent to Talley would help. The panel discussed that with the use of glass and metal to the east, and terra cotta to the west, and primarily glass in the center, there is a need to resolve the architecture from becoming three separate buildings.

Action:
The Panel had the following comments:
***1)*** *Incorporate a design element that reflects the road (Dunn Avenue), which will be removed, into the paving pattern of the All Campus Path on the northern edge of the site.* ***2)*** *Delete the covered drop off canopy at Dunn Avenue. It is too close to the Reynolds Coliseum entrance.* ***3)*** *Use the landscaped area in front of the north entrance as a rain garden and eliminate the storm water inlet in the great lawn. Bridge the walkway over the rain garden to allow for a larger rain garden.* ***4)*** *Add landscaping adjacent to the building along the east elevation (Reynolds side). Maintain the width of the existing path between Talley and Reynolds Coliseum.* ***5)*** *Consider design alternatives for the one-story addition on the south elevation that better blends with the building design. Look at reconfiguring and/or reducing the one-story footprint to allow for more area between the road and building and to allow better sight lines to the entrance.* ***6)*** *The center of the building (entrance/atrium area) on the east and west elevations needs to tie the east (glass/metal) and the west (brick/terra cotta) wings of the building together. What is the common thread that ties the architecture together?* ***7)*** *Provide more design information on the pedestrian bridge and the technology tower.* ***8)*** *Provide samples of the exterior building materials.*

**18. Carole Johnson Poole Clubhouse #116 – New Project**
Site Location: Centennial Campus
Architect: Cline Design Associates
NC State Project Manager: Charlie Marshall

- This project will provide a new mixed-occupancy, two-story clubhouse building of approximately 30,000 GSF and associated site improvements. Primary occupied spaces include dining & lounge areas, locker rooms, academic/classroom space, office & meeting space and University athletics space for the NCSU Golf Teams. A full commercial kitchen and a secondary snack bar are included. Electric golf carts shall be stored and charged in the lower level. The Project will pursue LEED Silver Certification.
- This new facility will replace the temporary modular building now serving as the clubhouse. This facility will provide interior and exterior hearth space.

Discussion: The panel discussed that the first floor lobby does not provide a very good impression. The entry sequence does not give a view or a sense of the importance of the spaces on the second floor, and that a better view to the activities on the second floor would help. It was discussed that the exterior stair has the appearance of being added on to the building, and that it's location confuses the primary entry. The size and materiality was discussed. After viewing the roof in perspective, there was consensus that the height of the roof would not overwhelm the building since the view upon arrival is from downhill.

Action:
The Panel had the following comments:
***1)*** *Consider design options that provide a more inviting building lobby. This building should have a lobby/entrance sequence that matches the prominent exterior appearance.* ***2)*** *The standing seam metal roof accents should blend with the shingled roof and should not be the color red.* ***3)*** *Provide alternative design options for the exterior stair to the golf shop. This stair should be less prominent, less obvious from the front of the building, and better integrated into the building design. If possible, eliminate the stair.* ***4)*** *Provide samples of all exterior materials*

**19. Dan Allen Gateway #113 – Updated Project**
Site Location: North Campus
Landscape Architect: OBS Landscape Architects
NC State Project Manager: Lynn Swank

- This project will create a new pedestrian and vehicular gateway on North Campus at the intersection of Hillsborough Street and Dan Allen Drive. Newly aligned brick paths will improve circulation and increase pedestrian safety. The design incorporates standard gateway elements such as brick paving, masonry columns, iron work, and white flowering plants.
- The designer provided a response to the 2/23/11 meeting review comments

Discussion:
The Panel discussed the advancements made to the design and that they were generally pleased with the design.

Action:
The Panel recommended **approval** of the project subject to incorporating the following comments:
***1)*** *Move the campus entrance sign closer to the crosswalk so it is more visible from Hillsborough Street.* ***2)*** *Use drought tolerant turf in lieu of irrigating turf areas.*

**20. Isenhour Weight Room Tennis Addition #115 – New Project**
Site Location: Central Campus
Architect: WHN Architects
NC State Project Manager: Angkana Bode

- This project consists of a 3160 SF addition to the south side of the existing tennis center. It includes a new weight room, office, storage and toilets to serve the baseball and tennis teams. The addition will be conventional construction. Windows on the south elevation provide ample daylight and views from the weight room to the Rocky Branch Creek.
- The addition will match existing "flat roof" portions of the existing indoor tennis facility (pre-engineered metal building).

Discussion:
The Panel discussed that the blank west façade should have a window or other means to add interest to the building addition. In general, the Panel felt that this addition would be an improvement to the south (metal building) elevation.

Action:
The Panel recommended **approval** of the project subject to incorporating the following comments: ***1)*** *Consider options for adding privacy for the new toilet rooms that open directly into the weigh room.* ***2)*** *Shift the seat wall at the exterior entrance to allow for an easier transition to the entry.* ***3)*** *Add a window in the storage room.* ***4)*** *Final exterior material selections should be based on field-erected sample panels and reviewed by my office.*

**21. Next Meeting:**

The next Panel meeting is scheduled for April 27, 2011, 1:30 to 4:00 PM.

# CAMPUS DESIGN REVIEW
**February 23, 2011**
**Winslow Hall Conference Room**

**ATTENDEES:** Gayle Lanier
Gene Bressler
Jason Low
Lisa Johnson
Michael Harwood
Mike Davidson
Randy Ramsey
Robin Abrams
Tim Blair
Tim Luckadoo
Carole Acquesta

Additional Distribution: Ed Funkhouser, Gerold Mohn, and Kevin MacNaughton

**Approval of the Minutes**

The November 17, 2010 meeting minutes stand as presented and will be posted.

**22. Talley Student Center Addition & Renovation # 12– New Project**

Site Location: Central Campus
Architect: Duda Paine Architects
Landscape Architect: Cole Jenest Stone
NC State Project Manager: Sumayya Jones-Humienny

- The project will build about 114,000 gross square feet (GSF) of additions to the existing facility, and will comprehensively renovate the existing 169,000 GSF building. The 283,000 GSF total project will include space for student organizations, expanded meeting and ballroom functions, and a variety of dining venues, a two level bookstore, lounge/gaming areas and offices.
- The Talley site is an important hub of pedestrian circulation. The building design addresses 6 different directions of arrival to the building. The southern edge is the All Campus Path and 'Student Main Street' (Cates Avenue). Pedestrian paths from the academic core on north campus will cross through Talley and connect to Student Main Street, thus creating the crossroads within the building. The project includes the design of a new pedestrian bridge over the railroad tracks that will connect to the fourth floor of Talley providing an accessible link between north campus and central campus.
- The site's numerous service entrances will be consolidated into one large underground loading dock, addressing the issue of conflict between pedestrians and service vehicles.
- A large green space/courtyard will be created on the north side of Talley. This space will allow for both large and small gatherings and will have strong interface with interior dining and other Hearth spaces.

- Rain gardens are planned to assist with storm water management as well as an underground cistern, which will be used for irrigation. Extensive green roofs are planned.
- There are multiple hearths and dining opportunities throughout the five level building and entrances on three different levels. The Bookstore is located on the lowest two levels with entrances on each level and is on the Cates Avenue side of the building. Student Activities are located on the top two levels with a open connecting stair between the levels. The atrium is the organizing element for the building and also provides natural light to interior spaces.
- The main exterior building materials are brick, terra cotta tile product, metal panels and glass. Some of the glazing will be fritted glass to assist with solar heat gain. The fritted glass will not be in the vision portion of the windows.
- The architectural character is drawn from NC State's science and technology roots. The west side of the building reflecting the natural arts and sciences is a smaller scale and uses the brick and terra cotta tile materials. The east side reflecting engineering and technology is mostly metal and glass. The building proportions and geometry are drawn from Reynolds Coliseum.
- Special attention has been given to the east elevation that faces Reynolds. The proportion of the Talley openings directly relate to Reynolds. An entrance is planned on the east elevation to allow Reynolds occupants and visitors easy access to Talley.
- The technology tower, an iconic/symbolic building element, is still being designed. The design team is considering a form that evokes weaving or braiding. The College of Engineering will be involved in the visioning for the tower.

Discussion:
The Panel was pleased with the quality of the presentation and thought the building models helped with understanding this complex project. Arrival points to the site were discussed: 1) North drop off point between Talley and Reynolds - where will students wait for shuttle buses? Will the drop off be covered? 2) Locate bike parking at site arrival points – some should be covered. 3) Bikes arriving via the pedestrian bridge – how will they transition to grade? 4) Main entrance on Cates doesn't feel inviting and welcoming.

Pedestrian movement across the site was discussed and the Panel thought further review of the location of the paths was needed. The Panel discussed the strong view shed from Wolf Plaza along the path to Talley and thought that something special should happen at the Talley terminus – create a sense of place. The project interface with Reynolds was discussed and the Panel felt that Talley was encroaching on the space between the buildings too much, overshadowing Reynolds, and should be providing the opportunity for activity in the space between the buildings.

Action:
*The Panel had the following comments:*
1) *Consider options for leaving the All Campus Path on the northern edge of the site in a straight alignment.*
2) *Address bike access across the pedestrian bridge and provide bike racks at several locations on the Talley site. Include opportunities for covered bike racks.*

3) *Provide design alternatives for the terminus of the east-west walk across large open green space; the walk that starts at Wolf Plaza and terminates at Talley. Create a sense of place at the terminus.*
4) *Provide opportunities for seating at the Dunn Avenue shuttle bus/vehicle drop off.*
5) *Analyze the pedestrian movement across the site, considering major pedestrian destinations. This may require rethinking some of the paths across the Talley green.*
6) *The mechanical penthouse on the east side of the building towers over Reynolds Coliseum. Provide design options that reduce the height of this portion of the building or that provide a set back from the eastern edge of the building.*
7) *The space between Reynolds Coliseum and Talley is very important. This area will be in shade most of the day. Consider ways to brighten this side of the building. Provide more opportunities for views of Reynolds and activity in this area. Also, verify that the mature trees in this space will survive the construction activity.*
8) *The Natural Sciences design concept is evident on the north-west side of the building. Carry this concept through to the south-west side of the building. Consider using more of the terra cotta product on this side of the building and re-evaluate the terrace canopy design and materials.*
9) *Strengthen the Cates Avenue main building entrance and provide a more welcoming entrance. The south elevation has too much continuous glazing. The building entrance should be easily distinguished from the all-glass southeast addition.*
10) *Consider wrapping the terra cotta screening around the corners at the food venue on the north elevation.*
11) *Provide design alternative for lightening or softening the curved roof porch forms on the northern and southern most portions of the building additions. The northern porch roof provides very little, if any, protection from the elements.*
12) *Consider opportunities for NC State branding, on the interior and exterior.*
13) *Provide more design information on the pedestrian bridge and the technology tower.*
14) *Provide samples of the exterior building materials.*

**23. Casey Aquatic Center Entrance Addition #111 – New Project**

Site Location: Central Campus
Architect: Spillman Farmer Architects
NC State Project Manager: Angkana Bode

- This project will add a new 1,000 SF lobby to the east entrance of the Casey Aquatic Center (built in 1961). The lobby will provide space for visitors to assemble prior to and after competitions and events. This entrance currently opens directly into a corridor which gets overcrowded during events. The new space will also allow for display of athletic (swimming) artifacts: trophies, posters, plaques, photos, and potentially videos. Two new ADA compliant toilets rooms are to be built within the former concession areas. A new exterior plaza is also included in the project scope.

- The exterior wall material will be mostly glass to create transparency. The current building has very little transparency and natural light. The design is taking cues from the adjacent Carmichael Recreation Center. Glazing and mullion materials as well as

window proportions will match the Recreation Center. A cantilevered entry canopy will provide protection at the new entrance.

Discussion:
The Panel felt the drawings were somewhat difficult to review and that the all glass addition didn't blend well with the existing architecture of the building or the neighborhood. The design should use more brick and possibly take more cues from the Recreation Center. The Panel agreed to review the design revisions to this project electronically in an effort to keep the project on schedule.

Action:
*The Panel had the following comments: 1) The addition should better blend with existing building architecture. Consider options that include brick and relate to the proportions of the existing building. 2) The drawings should provide a clear understanding of the design. Include larger scale elevations along with the contextual elevations.*

**24. Dan Allen Gateway #113 – New Project**

Site Location: North Campus
Landscape Architect: OBS Landscape Architects
NC State Project Manager: Lynn Swank

- This project will create a new pedestrian and vehicular gateway on North Campus at the intersection of Hillsborough Street and Dan Allen Drive. Newly aligned brick paths will improve circulation and increase pedestrian safety. The design incorporates standard gateway elements such as brick paving, masonry columns, iron work, and white flowering plants.
- The intersection of Dan Allen and Hillsborough Street is a prominent gateway onto NC State's North Campus. This gateway will be improved by following university design guidelines and standards. The project goals include creating an identity for this entrance and edge of campus, creating a relationship with the Watauga gateway design, providing an identifiable element for the Class of 2011 gift, improving the pedestrian experience and providing clear links to major campus paths.

Discussion:
The Panel discussed the need of a campus entrance sign at this prominent entrance to campus. There is now campus identification signage on the low brick wall that will be removed as part of this project. This is a complicated intersection with a lot of drives, walks and utilities and will be difficult to find a visible location for this signage. It was suggested consideration be given to making this a right in and right out only intersection. There was discussion regarding the plant materials and extending the brick markers to the Brooks intersection. A question was raised about the timeline for the Brooks roundabout.

Action:
*The Panel had the following comments: 1) Consider ground cover in lieu of small lawn areas or increase the lawn area. 2) Extend the brick markers to the Hillsborough Street and Brooks Avenue intersection. 3) Add another marker or two to the single markers on either*

*side of the Nelson Hall entrance walkway. 4)Consider a long range option of changing the Dan Allen entrance to a right-in and right-out only traffic flow and renovate the current Dan Allen turn lane to create a median with a standard campus entrance sign. This comment comes with the understanding that the university will need to coordinate with the City of Raleigh and Department of Transportation to achieve this traffic change.*

**25. Next Meeting:**

The next Panel meeting is scheduled for March 30, 2011, 1:30 to 4:00 PM.