



MEETING MINUTES

Meeting Location: Room 159, Education,
UW-Madison

Project/No.: 2015 Campus Master Plan Update

Date/Time: Thursday, March 26, 2015,
10:30AM-Noon

Re: Campus Visit #1, TCC #1
Administrative Work Group
Landscape Work Group
GI/Stormwater Work Group
Transportation Work Group
Utilities Work Group

Notes By: Mary Jukuri (SGJJR)
Stan Szwalik (HS)
Aaron Williams (FP&M)
Brian Smalkoski (KH)
Kevin Krause (AEI)

Attendees:

Faculty: Jeanette Kowalik (UHS), Jim LaGro, David Marcouiller (URPL), David Noyce (CEE), Neil Mack (Dolt), Anita Thompson (BSE)

FP&M: Bill Elvey, Gary Brown, Ellen Agnew, Jonathan Bronk, Matt Collins, Dan Dudley, Chris Gluesing, Julie Grove, Pete Heaslett, Rhonda James, Kurt Johnson, Patrick Kass, Rob Kennedy, Robert Lamppa, Harmony Makovec, Casey Newman, Dan Okoli, Marcella Otter, Jeff Pollei, Doug Rose, Rick Werre, Aaron Williams, (FP&M), Dan Stephans (DOA)

Consultants: Cassie Goodwin, John Hoffman, Mary Jukuri, Neal Kessler, Bill Patek, Eric Schuchardt, David Wolmutt (SGJJR), Paul Huettl, Kevin Krause (AEI), Emily Moser, Brian Smalkoski, William Reynolds (KH), Peter Schaudt, Stan Szwalik (HS)

ADMINISTRATIVE WORK GROUP TCC#1*****

FP&M: Bill Elvey (AVC FP&M), Gary Brown, Doug Rose, Chris Gluesing (FP&M), Dan Stephans (DOA)

Consultants: Bill Patek, Mary Jukuri (SGJJR)

This is Technical Coordinating Committee-Administration Work Group meeting #1 (TCC#1) of the 2015 Campus Master Plan project. Introductions were made around the table. The following are observations/thoughts transcribed during the work group meeting.

The group determined its focus to be one of synthesis and coordination for all TCC Working Group recommendations, and to help set priorities across the four Working Groups. Group members agreed that they may not need to meet as a separate group during each TCC meeting.

Overall, this group described the master plan focus should be as an update and that it is complementary to the 2005 master plan. There are four core areas of focus: infrastructure, storm water, landscape and transportation/parking. The master plan update is more like a zoning ordinance, it guides by defining the philosophy, intent, vision and goals, not by prescribing specific projects.

We discussed “What would make this a successful master plan” from the perspective of each member:

The 2005 Master Plan as a Building plan was successful; the 2015 master plan needs to emphasize landscape, open space and circulation. Create new open space; don't build on every square foot of campus. There needs to be workable, technical details for landscape elements. The DOA (and the city of Madison) process evaluates any capital project against the campus master plan. Don't make the master plan just a list of proposed projects. Define the philosophy, vision and goals to allow flexibility for future projects to demonstrate how they meet the vision and goals of the master plan.

Define the issues, knowing there could be multiple future solutions. FP&M's role is to understand and help articulate the rationale, help advocate for the plan. The plan should define how the individual college master plans fit into this update, knowing they are on different planning cycles.

The master plan update will be successful if it acknowledges the context and principles behind recommendations. Change is constant, it needs to be adaptable. We can't predict future changes in learning and research. Set the structure of campus. Space planning always looks first at existing space.

Sustainability should be woven into every aspect. Sustainability is the process by which we manage campus. This is what drove the four areas of focus on campus infrastructure for this update. More is not always better, fewer can be better.

There is a new emphasis on Health and Well-Being on campus as part of Student Life and Recreation.

Goals discussion focused on making sure goals are timeless principles, not a list of actionable items.

LANDSCAPE WORK GROUP TCC#1*****

Faculty: Jeanette Kowalik (UHS),

FP&M: Gary Brown, Ellen Agnew, Jonathan Bronk, Julie Grove, Harmony Makovec, Dan Okoli (FP&M)

Consultants: Neal Kessler, Eric Schuchardt (SGJJR), Peter Schaudt, Stan Szwalek (HS)

NOTE: See marked-up base map PDF for further information from this meeting.

- Enhance Street Corridors and open space linkages
- Which open spaces to enhance
 - o Hardscape plazas
 - Disconnection
 - Un-useable
 - Unknown
- Enhance Connectivity
- Enhance the near west campus with quality open spaces
 - o Uninspired
 - o Provide amenities
 - o Create quality open spaces
- UWell-Wellness focus
 - o Rec/Social/health
 - o Partnership for Healthy America
 - o Safety
- Buildings that create open space, rather than occupy open space

- Landscape should help dictate architectural solutions
- Flip the traditional figure-ground to be ground-figure. The landscape establishes standards and guidelines for the building envelope.
- Enhance north-south connections
 - o Physically and visually
- The landscape master plan should establish standards to guide and dictate architectural solutions
- Use landscape to unify the different campus areas (east to west, north to south, etc)
- Landscape as infrastructure, i.e. stormwater management
- Holistic planning approach; consider wildlife and human wellness in planning
- Enhance street corridors and open space linkages
- Enhance connection to Lake Mendota, real or perceived visual connections
- Many unknown courtyard spaces exist on campus. Improve visibility and connectivity of these spaces.

GREEN INFRASTRUCTURE (GI)/STORMWATER WORK GROUP TCC#1*****

Faculty: Jim LaGro (URPL)

FP&M: Matt Collins, Rhonda James, Aaron Williams, (FP&M)

Consultants: Cassie Goodwin, David Wolmutter (SGJRR)

Mission:

- How do our recommendations support the UW mission and goals set forth in 2005?
- Went over “The Master Plan will be successful if...” statements
- 2005 plan is viewed successful from building/space management perspective
- 2005 lacked the interstitial outdoor space awareness that 2015 needs to address
- 2015 plan needs to be complimentary to 2005 and focus on the interstitial space
- ***B. Elvey, sustainability is the very process by which we manage the campus; goals need to be less about items we check off from a list.***

Discussion:

- Need to understand where stormwater is coming from and characteristics of that water
 - o Separate dirty from clean water...we can do different things with each type
- Lot 34 as a stormwater feature area...where does replacement parking go?
- How do we balance maintenance (commitment and skill level) with proposed features?
- What are the requirements we need to meet (per building/per area)?
- Stormwater should be an outward expression of the UW Mission, Research, Aesthetic
- UWM-Jim Wasley is doing great stuff in Milwaukee
- ***Get LaGro study “Assessment of Green Infrastructure Potential”
- ***UW Sustainability Plan-understand it!
- ***Andy Reese article-check it out
- Portland State is doing good stormwater things

How do we make policy actionable...we’re good at policy, the follow thru kills us

- Make stormwater/green infrastructure part of the check list provided to architects
- Stormwater needs to have a research component that is visible

- Currently we are only required to meet quality (sediment) reduction; what about quantity and infiltration/groundwater recharge?
- Use 21st Century stormwater management paradigms
- Great to have goals, what are the institutional barriers?

New DNR TMDL requirements are strict...80% reduced sediment is the goal...currently UW is at 33%

- Adaptive Management is the strategy; UW will be one group in the watershed. The chain of lakes and Rock River basin will be monitored regularly to see if sediment is reduced. Can meet requirements off site, by purchasing sediment reduction credits or installing on other lands.
- City of Madison is leading this watershed basin strategy

Does this new requirement mean more \$ for green infrastructure? Will fines induce investment?

TRANSPORTATION WORK GROUP TCC#1*****

Faculty: David Marcouiller (URPL), David Noyce (CEE)

FP&M: Patrick Kass, Rob Kennedy, Casey Newman (FP&M)

Consultants: John Hoffman (SGJJR), Emily Moser, Brian Smalkoski, William Reynolds (KH)

Provide alternatives to single occupancy vehicles

13,000 vehicle stall cap currently exists; Transportation Services wants this to be raised to 15,000 vehicle stalls; current inventory includes:

- 9,000 permitted spaces
- 2,000 visitor spaces
- 2,000 university vehicle spaces
 - o Oversell 30-40%
- UW lacks visitor parking currently
- UW lacks swing space for parking

Data Provision, Review, and Collection:

- Kimley-Horn has requested parking occupancy and permit data as well as data from other agencies
- Transportation Services to provide the following parking information:
 - o Hourly in/out data from revenue control equipment for each garage
 - o Most recent available occupancy studies for each parking facility
 - o Sales information regarding permits and waiting lists for each parking facility
 - o Available visitor occupancy studies for special events
 - o Park and ride data (ridership, permits, etc.)
- Kimley-Horn to set up a call with Rob Kennedy to discuss data needed from outside agencies such as City of Madison, Madison Metro, and the MPO

Built Environment Confirmation:

- Detailed information regarding potential future parking and transportation network changes was provided during the campus tour

Goals, Objectives, and Priorities Review:

- Provide attractive alternatives to traveling by single occupancy vehicles
 - o Examine areas where they do not have transit service
 - o Determine ways to get those who must drive to carpool
 - o Compare 2005 address geocoding to 2015

- Address parking cap of 13,000 spaces
 - o 9,000 permits; 2,000 visitors; and 2,000 campus vehicles
 - o Visitor parking is one of the University's biggest parking issues; some of the visitor parking is being used by students who do not have access to annual parking permits
 - o Daily events – visitors coming for small conferences are unable to find parking (e.g., Union South)
 - o Large special events (i.e. WIAA high school athletic events) – University must ask 3,000 permit holders to move their vehicles and park elsewhere for the day
 - o "Swing space" would be helpful for accommodating special events, building construction, etc.
 - o There is some latent demand for permit spaces in certain areas
 - o The University typically oversells permits by 30%-40%

The University has made significant improvements to the bicycle and pedestrian network since 2005

- o Bicycle parking supply/demand should be addressed
- o Bicycle parking should be incorporated into future building plans
- o The private apartment buildings being constructed are not providing enough (or convenient enough) bicycle parking, so some of these students are using UW parking rather than parking at their residence

Work with City of Madison to provide complementary regulations

- o Moped parking
- o Intercity bus depot and charter bus staging
- o Parking adjacent to campus
- o Ownership of streets within campus area

Spot improvements:

- o Transit flow and reliability near Charter and Linden intersection
- o Traffic flow and access around Lot 46 and other existing parking facilities
- o Examine cross section for University Avenue

Park and Ride

- o Currently providing at WisDOT Hill Farms site and a minimal number of spaces at the University Research Park (no dedicated shuttle at URP)
- o University-run dedicated shuttles
- o Lower cost alternative to parking on campus
- o Consider examining zones of how far away they can locate park and ride facilities while keeping shuttle travel time within reasonable threshold
- o The University previously operated a park and bike facility next to the bicycle path, but it was eliminated after a year due to low usage (10-12 people)

Efficient parking

- o Not all buildings may be suited for underground parking
- o Who pays when parking is displaced for building construction?

UTILITIES WORK GROUP TCC#1 *****

Faculty/Staff: Neil Mack (Dolt)

FP&M: Dan Dudley, Pete Heaslett, Kurt Johnson, Robert Lamppa, Marcella Otter, Jeff Pollei, Rick Werre, (FP&M)

Consultants: Cassie Goodwin (SGJJR), Paul Huettl, Kevin Krause (AEI)

- All attendees listed above are considered part of the Utilities Technical Coordinating Subcommittee Work Group.

- 30% of the future buildings proposed in the 2005 Master Plan have been constructed
- The 2015 Master Plan project is an 18-24 month process. It is an update of the 2005 Master Plan.
- Due to recent zoning changes by the City of Madison, the UW Master Plan must go to the city for approval at the end of the process.
- The outlook of the 2015 Master Plan Update is 20 years.
- There is a current parking cap of 13,000 spaces on campus. This will be evaluated and tested as part of this process.
- UW-Madison has recently completed a Strategic Framework for the campus. The 2015 Master Plan needs to align with this framework. Copies of the framework were handed out at the meeting.
- A summary of campus feedback regarding what campus participants feel will make the Campus Master Plan successful was provided to all attendees. *That summary is listed below.*
- Jeff Pollei is the campus lead for the Utilities Technical Coordinating Sub-committee.
- Sustainability does not have its own Technical Coordinating Sub-committee. It should be part of all work groups.
- The work of each sub-committee should include considerations regarding flexibility and phasing into their master plan development.
- The Utilities Technical Coordinating Sub-committee discussed what items are in and out of current 2015 Master Plan scope.
- Items discussed by the Utilities Technical Coordinating Sub-committee that are currently not in AEI's scope include:
 - o *Compressed Air*
 - o *Domestic Water*
 - o *Sanitary Sewer*
 - o *Lake Water*
 - o *Update of Fire & Ice Chart*
 - o *Information Technology/Signal*
 - o *Identification of new utility plants*
 - o *Ownership of utility plants*
 - o *Buildings or facilities off campus*
 - o *Chilled water coil condensate recovery*
 - o *Renewable energy sources*
 - o *Survey assessment or documentation of electrical manhole and ductbanks*
 - o *Metasys system analysis/Energy optimization*

The following items are discussions related to scope that is not currently part of the 2015 Master Plan.

- a) The team discussed domestic water and sanitary sewer. Cassie from SGJJR joined the discussion to represent these civil utilities. There is aging campus infrastructure that should be evaluated (e.g. lift stations). Also there is concern with potential changes to city water pricing that could have a large impact on campus operating budgets. There was a domestic water model put together in the 2005 Master Plan.
- b) There are dirty domestic water issues in the Langdon St. Memorial Union area. The team discussed the needs for a flushing plan to aid in maintenance of this issue.
- c) Dan Dudley mentioned that other large campuses around the country have recovered condensate from chilled water coils. He is interested in investigating that at UW.
- d) Dan Dudley discussed lake water concerns with respect to EPA regulation 316B. He suggested that at a minimum, the 2015 Master Plan should identify the need for a project to address this system.

- e) IT Network super nodes were discussed. There are power redundancy deficiencies on campus that are a risk to system operation. Also the super node on east campus mall is subject to the flooding and an addition item of concern.
- f) There are certain communication duct banks on campus that do not provide diversified paths/geographic separation between redundant lines thus do not provide idea redundancy for buildings.
- g) There is a need to identify a location for a new south east campus chilled water plant. The 2005 Master Plan had identified a below ground plant at the site that has now become LaBahn Arena.
- Chilled water model will be updated as part of the 2015 Master Plan with current metered loads, where available. An update to the Fire and Ice chart was discussed, but is not currently in the scope of 2015 Master Plan.
- The 2015 Master Plan will update deficiency lists from the 2005 Master Plan for steam, chilled water and electrical utilities work that has been completed or for new deficiencies identified by the Utilities Technical Coordinating Sub-committee.
- The Utilities Technical Coordinating Sub-committee discussed the need to be conscious of what utilities material is posted on the 2015 Master Plan public website due to vulnerability of assets.
- The next Technical Coordinating Committee meeting is scheduled for April 15th, 2015, Rm 1420 WARF.

2015 Campus Master Plan Update

Campus Visit #1 – Responses: “The Campus Master Plan will be successful if...”

The consultants would like you to think about the following statement, Please provide a bulleted list of items that you think will make the master plan update process successful based on the scope of the project below:

- Confirm and update planning principals, goals & recommendations from 2005 Master Plan
- Develop a comprehensive Landscape Master Plan
- Develop a Stormwater Management Plan
- Update the 2005 Long Range Transportation Plan
- Update the 2005 Utilities Master Plan

GENERAL COMMENTS:

- Maintaining the integrity of historic buildings and landscapes on Campus is a priority throughout the planning process
- Future projects can be maintained without excessive use of resources
- -Stormwater generated on Campus can be managed within Campus boundaries
- Transportation and parking options on Campus continue to meet the needs of students and staff but do not dictate the planning process
- Existing utilities can be upgraded in a timely fashion to accommodate increasing needs on Campus
- A network of greenspaces is maintained throughout Campus
- New projects maintain the character and “sense of place” of the surrounding Campus
- If it includes planning for a range of instructional spaces including a few large lecture rooms and plentiful space that has flexible seating and technology resources that will be able to meet the changing instructional needs over the next several years
- If it takes into account the needs across the range of academic programs and supports what looks like a long term shift to STEM disciplines
- Includes social/academic spaces for people to come together in convivial environments for their academic work and scholarship
- The potential for surface parking lots as future building sites should be reviewed.
- Per goal #2 of the 2005 plan, research laboratory needs in aging buildings needs to be addressed in a systematic manner. Modern scientific research is compromised in old buildings with insufficient utility services and safety issues.
- Many historic buildings on campus require external preservation work to minimize long term damage from the elements, per goal #4 of the 2005 Master Plan.
- Future building sites need to be confirmed and expanded from the 2005 plan if possible.
- Campus boundary should be reviewed as it relates to building site development
- Privately owned parcels within the campus boundary should be confirmed and goals set to obtain those properties if they relate to future building sites.
- We clearly articulate our goals
- We demonstrate how these goals translate into innovation, vision, and concepts
- The plan allows for a flexible blueprint and framework
- Our near term projects match our long term goals

CENTRAL PLANTS

- Identify optimum locations and capacity for future central steam and chilled water plants.
- Analyze existing Metasys system operations, identifying means to improve building automation system to optimize campus energy consumption
- Update expected increase of lake water consumption estimates vs. availability of lake water per the new EPA 316b regulation

- Analyze CSHP lakewater treatment quality/costs vs lakewater intake location and alternatives. Update future loads spreadsheets

STEAM DISTRIBUTION SYSTEM

- Update campus central steam distribution system AFT Arrow flow model
- Update locations of utility corridors
- Update existing estimated building loads(steam/compressed air)
Identify future steam loads
- Identify optimum means to manage utility (energy) use through campus metering or alternate means.

CHILLED WATER SYSTEM

- Update campus central chilled water system AFT Fathom flow model.
- Update locations of utility corridors
- Update existing estimated building loads(chilled water)
- Identify future chilled water loads
- Identify optimum means to manage utility (energy) use through campus metering or alternate means.

CONFIRM THE RECOMMENDATIONS OF THE 2005 MASTER PLAN

- Provide a list with the status of each 2005 recommendation for improvement for sanitary, storm, water distribution, road, and building exteriors.

STORMWATER MANAGEMENT PLAN

- Provide a detailed report on the current status of the campus compliance with the WPDES MS4 permit.
- Provide specific project recommendations for achieving compliance with WPDES MS4 permit. Include project budgets for each recommendation.
- Provide a critique, evaluation, recommendation, and 10 year action plan for participating in Adaptive Management program to meet MS4 permit requirements.
- Provide a map showing the boundary of the UW's MS4 permit limits. (the limits are known we just need a map)
- Verify and update the SLAMM model to demonstrate existing level of compliance with MS4 permit.
- Provide a working SLAMM model of so that campus can update the model from time to time as changes are made.
- Provide a specific comprehensive inspection and maintenance plan for routine / annual maintenance of each stormwater BPM. Designate which UW entity provides inspections and maintenance.
- Update the Campus Utility ACAD map to show each stormwater BMP with identifying information. Coordinate this with the maintenance plan.
- Identify locations that require shoreline stabilization, outfall stabilization, and permanent erosion control.

UTILITY PLAN

- Provide prioritized list of all needed repairs and replacement of storm sewer, water distribution, sanitary sewers, and lift stations.
- Model the water distribution system to identify current and future deficiencies in the capacity.
- Provide a working computer model of the campus water distribution so that proposed changes can be easily modeled.
- Update the Campus Utility ACAD file to show the age of sanitary and water mains.
- Update the Campus Utility ACAD to show the missing fiber optic lines, especially in Univ Houses and Eagle Heights.
- Sustainability is a priority throughout the planning process
- Improve reliability and redundancy of campus utilities, particularly those that serve buildings with significant research activity.