A meeting was held at the office of Mt. SAC Ag. Science on Thursday, 06 January, 2005 at 1:00pm.

Those present:
AC Martin Partners, Inc (ACMP): Craig Wilson, Paul Coleman
Bovis Land Lease (Bovis): John Beckton
Mount San Antonio College (MtSAC): Larry Redinger, Tom Visosky, Dave Lannom, Audra Lopez, Carol Gundlach, Dale Vickers, Ilfrock Nsek

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the meeting:

1.1 The purpose of the meeting was to collect user input on the 2004-2005 FPP program and conceptual design from the Agricultural Sciences faculty, review the current siting and masterplan, and kick-off the program verification portion of Schematic Design.

2.0 Discussion:

2.1 Building site: Tom Visosky informed Bovis and ACMP that the revised location of the building site on the north end of the Farm had been approved. The proposed Ag. Sciences Main Building would replace a number of existing temporary structures. John Beckton and ACMP both stated that they were not aware of this decision.

2.2 Support Structures sites: The group agreed with FPP locations for the proposed Sheep Unit, Raptor Rehab, and Equine Tack buildings. Mt. SAC stated that the Greenhouse site may be revised.

2.3 Literacy Trail: Mt. SAC stated that the revised location of the Main Building would require possible adjustments in the layout of the Literacy Trail. ACMP agreed, thought scope of that work is under a separate contract from the Ag. Sciences Complex.

2.4 FPP revisions: It was understood that while some modifications could be made to the Main Ag. Sciences Building design, the fact that this project is Ready Access precludes making...
significant revisions to the plans that are included in the 2004-2005 Final Project Proposal (FPP). The building will be appropriately oriented on the new site.

2.5 Program Verification: Paul Coleman reviewed the floor plans with the users, and de-briefed the users on the information that would be required from MISAC for ACMP verify the program in the FPP. Tom Visosky (MISAC) and John Beckton (Bovis) stated they would distribute the room data blank sheets that were provided via email by ACMP.

2.6 Site Walk: The design team and users toured the tack area, equine center, and horse paddock. Mt. SAC stated that the two largest problems they currently have are erosion and drainage. The design team and users agreed to a more comprehensive site walk. It is currently scheduled for Tuesday, 11 January, 2005, at 1:00 pm.

3.0 Next Steps:

3.1 Building site: John Beckton (Bovis) to meet with Mt. SAC representatives to finalize location of site for proposed Ag. Sciences Main Building.

3.2 Program Verification: MISAC users to provide ACMP with all pertinent information for program verification.

3.3 Site Walk: ACMP, Bovis, Mt. SAC to attend site walk on 11 January.

3.4 Utility Information: Bovis will forward utility information for the Farm to ACMP.

4.0 Action Items from Previous Meetings:

4.1 None.
A meeting was held at the office of Mt. SAC Ag. Science on Thursday, 13 January, 2005 at 1:00pm.

AC Martin Partners, Inc (ACMP): Craig O’Connor, Paul Coleman
Bovis Lend Lease (BLL): John Beckton
Mount San Antonio College (MiSAC): Larry Redinger, Tom Visosky, Dave Lannom, Audra Lopez, Carol Gundlach

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the meeting:

1.1 The purpose of the meeting was to answer questions regarding user’s progress on program verification, and to address site options and issues.

2.0 Discussion:

2.1 Project schedule: John Beckton stated the project schedule to the users: 2 weeks- Program Validation, 6 weeks- Schematic Design, 8 weeks- Design Development, 12 weeks- Construction Documents, 6-9 months estimated- DSA review and pick-ups, 6 weeks bidding.

2.2 FPP revisions: ACMP stated that they would confirm with Sean Blaylock (CCS Group) the extent to which the approved FPP plans can be adjusted. John Beckton stated to the users that requests they make for program verification must be responded to by ACMP within the context of the Mt. San Antonio College Building Standards, dated October 2001.

2.3 Program verification: ACMP answered questions regarding user requests, and instructed users to fill out both the room data sheets for each room and out-building element, as well as comment directly on the drawings they had. ACMP agreed to meet with Dr. Gary Uyeno.
separately to gather information on the RVT lab and support spaces. Final information for program verification will be given to ACMP by Thursday, 20 January 2005.

2.4 Site Options: ACMP stated that the approved program would have to be tested on the site at the north end of the Farm.

2.5 Other buildings: MtSAC users discussed other locations for the 4 auxiliary buildings, as well as priority for completion if budget constraints limit development. Buildings listed below are in order of importance to complete, most important listed first:
   - Sheep Unit- to be located near the existing swine area.
   - Greenhouse- to be located in the horticulture area, possibly directly south of the proposed Ag. Science building site at the north end of the Farm.
   - Equine Tack- possibly located in existing structure.
   - Raptor Rehab- to be located in small valley east of proposed Ag. Science building site at the north end of the Farm. Option to be explored further.

2.6 Site Walk: ACMP toured the Farm with members of MtSAC.

3.0 Next Steps:

3.1 FPP revisions: ACMP to confirm with Sean Blaylock (CCS Group) the extent to which the approved FPP plans can be adjusted.

3.2 Program verification: MtSAC to give ACMP final information for program verification given by Thursday, 20 January 2005.

3.3 Site options: ACMP to confirm that approved FPP building will fit on site at north end of Farm.

3.4 Site Information: Geotechnical and survey information for the selected building site will be required upon commencing with Schematic Design.

4.0 Action Items from Previous Meetings:

4.1 Utility Information: Bovis will forward utility information for the Farm to ACMP.

4.2 Building site: John Beckton (Bovis) to meet with Mt. SAC representatives to finalize location of site for proposed Ag. Sciences Main Building prior to ACMP proceeding with Schematic Design.
A meeting was held at the office of Mt. SAC Ag. Science on Thursday, 13 January, 2005 at 1:00pm.

Those present:
AC Martin Partners, Inc (ACMP)- Paul Coleman
Bovis Lend Lease (BLL)- John Beckton, Randy Hartman (part time)
Mount San Antonio College (MtSAC)- Larry Redinger, Tom Visosky, Dave Lannom, Audra Lopez, Carol Gundlach, Dr. Gary Uyneo (part time)

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the meeting:

1.1 The purpose of the meeting was to collect and review program verification information, and to address site options and issues related to the north site.

2.0 Discussion:

2.1 Program Verification. MtSAC submitted room data information, diagrams and drawings to ACMP for inclusion in the Program Verification deliverable. ACMP will deliver the Program Verification Document to MtSAC and BLL on Thursday 10 February.

Action: ACMP

2.2 Site Options. Based on direction from BLL and MtSAC that the north Farm site is the selected site for the Ag. Sciences Building, and that the proposed building should be reduced to one-story because of EIR constraints, ACMP presented two options for the existing program on one level. The first option was a similar footprint to the FPP plan, with the additional second
story GSF added to the ground level. The second option was similar to the first option, except that modifications had been made at the west end of the proposed massing to account for potential views from spaces inside the building. The team will also attempt to place a bus drop-off, staff parking spaces, and accessible parking spaces to the west of the proposed building, to the extent that they fit.

Action: ACMP

2.3 **FPP scope/budget**: BLL and ACMP confirmed that the main Ag. Sciences Building, the raptor recovery center, the greenhouse, the sheep unit, and the equine tack structures would have to be constructed with the budget as defined in the FPP. If any buildings are eliminated, the project would lose its Ready Access funding.

2.4 **Funding for Literacy Trail**: John Beckton stated that the FPP included a budget for creating the literacy trail.

2.5 **Additional Program**: BLL stated that rooms missing from the FPP plans and program are: telcom room- size to be determined by Iffok Nsek, space for a fire riser, and a space for a large-capacity water heater. BLL to submit project to Iffok to determine size of telcom room.

Action: BLL

2.6 **Veterinary Facility Visit**: ACMP, BLL, and MtsAC agreed to meet Dr. Gary Uyeno at an Veterinary Facility. This meeting is tentatively scheduled for Friday, 04 February.

Action: ACMP, BLL, MtsAC

3.0 **Action Items from Previous Meetings**:

4.1 **Utility Information**: Bovis will forward utility information for the Farm to ACMP.

4.2 **Outbuilding Information**: MtsAC to provide all relevant information to ACMP regarding the 4 outbuildings, including any contact info for prefab manufacturers of similar building types.
A meeting was held at the office of Mt. SAC Ag. Science on Thursday, 03 February, 2005 at 1:00pm.

Present

**AC Martin Partners, Inc (ACMP)**
- Paul Coleman
- Craig O'Connor
- Frederick Marks

**Bovis Lend Lease (BBLL)**
- John Beckton
- Randy Hartman

**Mount San Antonio College (MtSAC)**
- Larry Redinger
- Tom Visosky
- Dave Lannom
- Audra Lopez
- Carol Gundlach
- Jean Hoffman (part-time)
- Randy Storm (part-time)

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1.0 Purpose of the Meeting:

1.1 The purpose of the meeting was to collect and review program verification information, and to address the current preferred site location for the Agricultural Sciences Building.

2.0 Discussion:
2.1 Program Verification- Randy Storm noted specific design conditions required for the Swine facility, such as a nursery, a demonstration space and a sub-floor for flushing waste. Paul Coleman met with him at the conclusion of this meeting to review additional room data for the Program Verification Document. Given the need to incorporate other information, ACMP does not expect to complete and deliver this document to MtSAC until the end of this month.

Action: ACMP

2.2 Site Options- The current choice for a site for the Ag. Sciences Building is the ‘pasture’ subject to costs being in line with the budget. The perceived advantages are: (1) it will be in good proximity to the students coming from the parking lots, and (2) it allows the equine area to remain open. ACMP noted that the site has an approximate elevation change of 20 feet. Randy said that the site must be balanced (cut and fill) using on-site soil.

Action: ACMP

2.3 FPP Scope/Budget- BLL and ACMP confirmed that the main Agricultural Sciences Building, the Raptor Recovery Center, the Greenhouse, the Swine Unit, and the Equine Tack structures would have to be constructed with the $14 million budget as defined in the FPP. $1 million has been set aside to do improvements outside of the FPP. Any improvements that fall under $15,000 will not have to go through the DSA review. BLL will see that replacing a sheep unit with a swine unit will be accepted by the DSA.

2.4 Literacy Trail- John Beckton stated that because the main Agricultural building and the other project structures will be reviewed by DSA and constructed on different timetables, the literacy trail will not be shown as a continuous circulation system. It will be required that handicap accessibility be provided at each new project site.

2.5 Site Information- BLL will provide ACMP campus civil drawings noting utility locations and contours for the entire agricultural campus. ACMP requested emergency access documentation submitted for recent campus projects (i.e., Tractor building and Livestock pavilion). Craig O'Connor will contact the EIR representative regarding potential visual impacts related to a proposed raptor rehab site adjacent to the north campus boundary.

Action: BLL and ACMP

2.6 Project Schedule- To make up any delay in the schedule that may have been caused by changing sites for the main Ag. building or not having existing infrastructure documentation available, BLL and APU will accelerate their review process for the architectural drawing submittals.

Action: ACMP, BLL, MtSAC

3.0 Action Items from Previous Meetings:

3.1 Utility Information- BLL will forward utility information for the Farm to ACMP.

3.2 Outbuilding Information- MtSAC to provide all relevant information to ACMP at the time that additional meetings are scheduled for the 4 outbuildings, including any contacts for prefab manufacturers or similar building types.
A meeting was held at the office of Bovis Lend Lease at Mt. San Antonio College on Thursday, 07 April 2005 at 11:45 a.m.

Those Present:

AC Martin Partners, Inc (ACMP)       Bovis Lend Lease (BLL)
Paul Coleman                         Randy Hartman
Craig O’Connor

Davis Langdon
Rick Lloyd – via telephone

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the meeting was to review the Cost Plan for the proposed project prepared by the consultant Davis Langdon on March 30, 2005.

2.0 Discussion:

2.1 Analysis of Cost Estimate- The review began on a page by page basis, particularly with regard to the list of assumptions, and then covered only those items of specific interest. It was noted that only the main Ag. Science building would require one year for construction. ACMP clarified that the estimate for the Ag. Science building was based on Type 2 construction, although Type 3 (heavy timber) would be an option.

Action: ACMP
2.2 Conference Call to Davis Langdon - Rick Lloyd answered questions by telephone. He clarified that project escalation was covered within the rates (compounded) that were used for construction. For the main Ag. Building, he used 40,000 SF for build-out instead of 36,000 SF, and 130,000 SF for site clearing and grading based upon the envelope marked off on the master plan.

**Action: ACMP**

2.3 Issues for Bovis Lend Lease - John suggested that the limits for site improvements on the main Ag. Building become 100,000 SF; the new access road may be reduced if the existing service road can be extended to the back of the building. John questioned the depth of over-excavation and re-compaction (8 ft) used for estimating the building foundation (the geotechnical report indicates 3.5 ft for the slab and 3 ft for the footings). Jake indicated that the retaining walls may be designed to be smaller. John said that utility costs, five feet outside of a building's perimeter, will be justified in a schedule-of-values.

**Action: BLL**

2.4 Issues for Mt. SAC - Gary noted that Mt. SAC has some flexibility in working with the state 'Ready Access' program. While program spaces cannot be eliminated, the floor plan and assigned square footage can be modified. However, Becky said that modifications to the building design and layout could trigger a "scope" change, subsequent legislative action, and a possible loss to state funding.

It was clarified that the project will be multiple-prime-bid through BLL. Gary wants the limits of construction for all buildings to be reevaluated and to not have the building exterior holding areas included in the quantities for conditioned space. Gary questioned the need for a 15% design contingency (ACMP explained that this is an estimator's device to account for building items yet to be defined). Gary wants BLL to thoroughly go through the cost plan and come to some consensus with ACMP on the projected construction cost.

2.5 Next Meeting:
- 13 April – Conference call between BLL and ACMP at 11:00 a.m.
- 15 April – BLL and Gary Nellesen to meet at 8:30 a.m.; ACMP will be availability by phone.
- 18 April – Gary Nellesen to meet with Christopher O'Hearn at 11:00 a.m.

**Action: BLL, Mt. SAC, and, possibly, ACMP**

2.6 Project Schedule - All design to remain on hold until the cost of the project is reconciled.

**Action: ACMP,BLL, MtSAC**

3.0 Action Items from Previous Meetings:

3.1 None.

Frederick Marks  
Director of Science & Technology
Two conference calls were made between ACMP, Bovis Lend Lease, and Mt. San Antonio College on Friday, April 15, 2005 at 7:40 a.m. and 8:35 a.m., respectively.

AC Martin Partners, Inc (ACMP)  
Frederick Marks  
Mt. San Antonio College  
Gary Nellesen  

Bovis Lend Lease (BLL)  
John Beckton  
Jake Brady

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the conference call was to review the Cost Plan for the proposed project prepared by Bovis Lend Lease and dated April 8, 2005, in reaction to the Cost Plan prepared by ACMP’s consultant Davis Langdon on March 30, 2005.

2.0 Discussion:

2.1 Conversation between ACMP and BLL - As scheduled, Fred Marks called John Beckton and Jake Brady at 7:40 a.m. in response to having received on April 13, 2005, a project Cost Plan prepared by BLL. Fred referred to a discussion he had with Rick Lloyd of Davis Langdon on April 14.
a. The decrease in estimated construction cost may be represented by three categories: a difference in quantity ($1.8 million); a difference in unit rates ($1.1 million); and a difference in quality ($1.0 million).

b. A 4,000 GSF decrease in the main Agricultural building provides savings of approx. $800,000. ACMP was following the project program spreadsheet criteria in the JCASF 31, which may not allow altering.

c. A decrease in the site boundary (130,000 S.F. vs. 103,000 S.F.) for the main Ag. bldg. provides savings of $350,000.

d. A multi-prime bid structure may not generate savings from the subcontractors but will yield savings by eliminating the contractor general conditions, fees, profit, etc.

e. A decrease in the amount of access road to the Ag. bldg. provides savings of approx. $500,000.

f. A decrease in the amount of glazing for the Ag. bldg. provides savings of approx. $130,000; estimating 12-15% for glazing is too low for a teaching lab.

g. A decrease in the number of Ag. bldg. interior doors provides savings of approx. $40,000; this does not account for more doors as the design process proceeds.

h. A decrease in the amount of fire sprinklers for the Ag. bldg. provides savings of approx. $50,000; this assumes a smaller footprint and a reduced unit rate.

i. A decrease in the unit rate for the interior drywall for the Ag. bldg. appears too low in terms of quality.

j. A decrease in the unit rate for foundations for the Ag. bldg. provides savings of approx. $80,000; this is not recommended.

k. A decrease in the unit rate for exterior cement plaster for the Ag. bldg. appears too low in terms of quality.

l. A decrease in the cost of the main interior stair for the Ag. bldg. provides a savings of approx. $40,000; the unit rate appears too low in terms of quality.

**Action: ACMP and BLL**

2.2 **Conversation between ACMP, BLL, and Mt. SAC**- Gary Nellesen joined Fred Marks, John Beckton and Jake Brady in a telephone conversation at 8:35 a.m. concerning construction cost. The following points were made.

a. Gary said that DSA requires that the assigned square footage listed in the JCASF 31 not change, but that the total GSF can be the result of the efficiency of the project design. Fred said that historically, higher education science buildings have a grossing factor between .54% and .64%; the need to zone HVAC for health, safety, comfort, and function may not provide a more efficient rate.

b. Gary does not want the estimate to hedge for future rising costs in both unit rates and in an escalation factor. Jake agreed with Fred that BLL’s estimate needed to be adjusted to account for escalation through April 2006 (7 1/2 - 8%).
c. Gary said that the proposed buildings should be designed to meet campus standards. Quality is important in terms of the building's useful life and demand on campus operational funds.

d. Fred said that ACMP should not be responsible for redesigning the project, in subsequent phases, without additional compensation if reasonable steps are taken to work towards a revised construction budget that may be unachievable. Gary agreed to this thinking as it relates to falling below campus standards.

e. Gary asked BLL to modify its estimate to reflect the items discussed.

**Action: BLL**

2.3 **Next Meeting:**
- 15 April – Conference call between ACMP and BLL when the BLL estimate is revised.
- 18 April – Conference call between ACMP, BLL and Gary Nellesen at 8:00 a.m.
- 18 April – Gary Nellesen to meet with Christopher O’Hearn at 11:00 a.m.

**Action: ACMP, BLL, and Mt. SAC**

2.4 **Project Schedule:** All design to remain on hold until the cost of the project is reconciled.

**Action: ACMP, BLL, and Mt. SAC**

3.0 **Action Items from Previous Meetings:**

3.1 None

Frederick Marks
Director of Science & Technology
Two conference calls were made between ACMP, Bovis Lend Lease, and Mt. San Antonio College on Monday, April 18, 2005 at 7:40 a.m. and 7:55 a.m., respectively.

<table>
<thead>
<tr>
<th>Those Present:</th>
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<tbody>
<tr>
<td>AC Martin Partners, Inc (ACMP)</td>
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<tr>
<td>Frederick Marks</td>
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<td>Bovis Lend Lease (BLL)</td>
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<td>John Beckton</td>
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<td>Mt. San Antonio College</td>
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<tr>
<td>Gary Nellesen</td>
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These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the conference call was to review the revised Cost Plan for the proposed project prepared by Bovis Lend Lease on April 15, 2005, in reaction to the Cost Plan prepared by ACMP's consultant Davis Langdon on March 30, 2005.

2.0 Discussion:

2.1 Conversation between ACMP and BLL—As scheduled, Fred Marks called John Beckton and Jake Brady at 7:40 a.m. in response to having received on April 15, 2005, a revised project Cost Plan prepared by BLL. Fred had the following comments.

a. Fred appreciated BLL modifying its estimate to reflect some of the discussion that took place on April 15, 2005.
b. BLL made its biggest single adjustment (decrease) in accounting for multi-prime bidding.

c. Fred asked that Jake provide ACMP with his assumptions (with benchmarks) on how he established the different site envelopes.

**Action:** ACMP and BLL

2.2 **Conversation between ACMP, BLL, and Mt. SAC** - Gary Nellesen joined Fred Marks, John Beckton and Jake Brady in a telephone conversation at 7:55 a.m. concerning construction cost. The following points were made.

a. Gary confirmed that all of the project buildings will be submitted to DSA for review and approval. Construction mobilization time may be saved by getting drawings for the four support buildings to DSA while the documents for the main Agricultural building are being completed. Gary believes that no building will begin construction and that the state money will not be released until all of the permits are in hand.

b. Gary will consider a request to increase the project budget by $3 to $4 million. Fred said that while the Davis Langdon estimate could be reduced for adjustments in quantities and some unit prices, ACMP cannot endorse the BLL estimate. Fred suggested that there be a ‘below-the-line’ project reserve to reflect the difference in the estimates to-date.

**Action:** Mt. SAC

2.3 **Next Meeting** - 18 April – Gary Nellesen to meet with Christopher O’Hearn at 9:00 a.m.

**Action:** ACMP, BLL, and Mt. SAC

2.4 **Project Schedule** - All design to remain on hold until the cost of the project is reconciled.

**Action:** ACMP, BLL, and Mt. SAC

3.0 **Action Items from Previous Meetings:**

3.1 None

Frederick Marks
Director of Science & Technology
A meeting was held at the office of Bovis Lend Lease, Mt. SAC on Tuesday, 10 May 2005 from 11:00 a.m. to 3:30 p.m.

Those Present:

AC Martin Partners, Inc (ACMP)  
Frederick Marks

Bovis Lend Lease (BBLL)  
John Beckton

Mount San Antonio College (MtSAC)  
Larry Redinger
Tom Visosky
Audra Lopez
Carol Gundlach
Jean Hoffman
Randy Storm
Hop Estes
Becky Mitchell

Southern California Edison  
Mark Davis

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the meeting was to review program requirements for each of the Agricultural Sciences Complex project buildings: main Agricultural Sciences, Greenhouse, Swine Unit, Equine Tack Unit, and Raptor Unit.
2.0 Discussion:

2.1 **Main Agriculture Building** - Tom will have the faculty review and return the Room Data Sheets to ACMP by June 8, 2005. Tom and Larry confirmed that the building's footprint is acceptable and will not change. MtSAC would like to make minor modifications to the location of some interior partitions on the first floor; it is important that the assignable square footage not change. It was suggested that the first floor entry corridor include a double door at both ends to accommodate pedestrian traffic flow. Other perimeter doors should be evaluated in terms of exiting, security, and air pressure. It is probable that there will be no general parking along side the building, only stalls for handicap accessibility.

**Action: ACMP, MtSAC**

2.2 **Equine Tack Unit** - This building will serve three main functions: to store hay/straw and sack feed; to store equine equipment; and to provide restrooms for staff, and students. The feed section will require a mezzanine for small items; an enclosed stair for access should be placed in the equine tack room to attempt to control rodent infestation. Moving feed may require a forklift or pallet-jack. There needs to be a double sliding bypass door for the feed section and double 3 foot swing door for the tack room. The flooring in the feed section should be rough concrete; there should be a very rough textured concrete surface where there is an exterior wash down for horses. The tack room needs a small janitor's sink. Lighting is required on the exterior at each end of the building. The tack room needs focused illumination. Tom provided a floor plan sketch of the building with notations.

**Action: ACMP**

2.3 **Swine Unit** - This building will serve five main functions: a farrowing section for birthing; a nursery for recovery; a pre-farrow holding area; a workroom for student observation; and an office/restroom section. There should be eight (8) birthing crates and three (3) holding pens that hold 2-3 sow each. Bacteria contamination control is very important. There should be double cavity floor for handling waste in the farrow section; troughs can be used in the holding pens. The workroom should have demonstration tables for teaching sessions of 30 students. Flooring should be coved at the walls. This building is very specialized and should pre-qualify subcontractors. There is a separate concern for warranties and service agreements on the interior equipment. Randy provided manufacturers information for Tech Space, Lester Building Systems, and the Modular Buildings company.

2.4 **Raptor Recovery Center** - This facility will provide shelter for red tail hawks, kestrels, cooper, and barn/great horn owls; it will be run using California Fish & Game Standards. It will be composed of three areas: a fence enclosed section (30ft x 60 ft) with a dirt floor to underside of roof maximum dimension of 15 feet; a 30ft x 30ft shelter with individual cages on a concrete floor with drainage; and a concrete pad with drainage for six (6) freestanding cages (6x6 dimensioned 6ft x 8ft x 8ft H). Jean provided a floor plan sketch and equipment/furnishings requirements using the room-data-sheet form. She also
referred to photographs of existing flight centers; one in Arrowhead that was an example of the type of fencing to be used; another at UC Davis that was constructed entirely of wood slats (ideal but too expensive for this project budget). The fenced area could be configured as an L to allow for birds to bank in flight. Jean referenced a web site for an 8,000 SF eagle flight center: www.ulster.net/~hvraptors/eaglefl.html

2.5 Civil and Geotechnical Studies- Becky provided ACMP with an April 26, 2005, report prepared by Global Geo-Engineering, Inc.

Action: BLL and ACMP

2.6 Vehicular Circulation- Tom asked that there be a consideration to connect the existing Tracker Barn road with the service road that will lead to the new main Agriculture building.

2.7 Savings By Design- Mark Davis, representing Southern California Edison, discussed his organization's program to encourage, through Owner rebates and professional fees, building energy efficiency. The program is set up to improve project performance "significantly beyond" Title 24 requirements. The architect/engineer can analyze a facility for savings either by the "systems approach" or "whole building approach." Mark will send a Participation Letter to BLL to be filled out on behalf of the Owner.

Action: BLL and ACMP

2.8 Project Schedule- ACMP will send Becky a revised schedule for inclusion in the amended Owner/Architect contract.

Action: ACMP, MtSAC

3.0 Action Items from Previous Meetings:

3.1 Greenhouse Unit- ACMP will re-contact the manufacturers/suppliers recommended by Dave Lannom concerning pre-approved buildings for DSA.

Action: ACMP
A meeting was held at the office of Bovis Lend Lease, Mt. SAC on Tuesday, 24 May 2005 from 9:30 a.m. to 11:30 a.m.

Those Present:

AC Martin Partners, Inc (ACMP)            Bovis Lend Lease (BBLL)
Frederick Marks                             John Beckton

Mount San Antonio College (MtSAC)          AHSC McLellan Copenhagen
Gary Uyeno                                  Daniel Dozer
Audra Lopez

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the meeting was to review program requirements for the Surgical Suite to be located in the main Agricultural Sciences building.

2.0 Discussion:

2.1 Dog Kennels- Tom suggested that the block wall be extended into the pasture area for animal control. The cages will be built using 18 gauge chain link wires.
There should be a drain-way and four hose bibs (flush valve system) dispersed throughout this area. For the wall surface, consider an epoxy coating, block filler with epoxy paint, or a wainscot. A pulley cable is required to control all cages simultaneously.

2.2 Enclosed Treatment – Exterior Area – This open area will require a sloped (1/4 inch) concrete sealed floor surface and several drains. There should be a hose bib at opposite ends of this space.

2.3 Dark Room – The ample square footage in this room is to accommodate equipment and students. Similar to other rooms in the surgical suite, the Gary accepted that the casework countertops can be built with a 3 millimeter hard PVC trim and a plastic (chemical resistant) laminated top, in order to reduce costs. A hand wash sink should be located at the south end of the bench (near the door).

2.4 Treatment – There will be 25 to 26 students in attendance in this room. Of the six tables required, two need to be set up for wet use, located central to the layout. Mechanical and electrical services should be vertically transferred from above the suspended ceiling to the tables below through a floor mounted column. The overhead surgical lights should be a single swivel arm – single small fixture type. There will be pre-fabricated cages, possibly manufactured by Suburban Surgical Co.; it is preferred that the drainage be placed to the rear of the cages to prevent contaminated waste from flowing into the clean area. A 1/8" non-skid epoxy surface with a continuous base cove should be considered for the floor material.

2.5 Surgery – The overhead exam lights should have a single swivel arm – single large fixture, be focusable, and medical grade with detachable handles for sterilization. Suggested manufactures would be Centurion and Skytron (i.e., ST 23 Stellar Series). The room requires a double swing entry door with a dead bolt lock for security after-hours. The anesthesia machines need to be against the north facing wall; relocate the casework to the east wall. There needs to be a hand wash sink to the entrance to the surgery room.

2.6 Endoscopy – The ultrasound machine needs to be located against the wall; the casework should provide an opening.

2.7 Radiology – There will need to be 220 volt outlets for the anesthesia machine.

2.8 X-Ray – Two rooms are assigned for digital equipment. One will initially be used for standard equipment and have a monitor on the outside wall.

2.9 Sterile – This room will require mostly 220 volt outlets. Sterilizing will be for clothes and surgical instruments. Anesthesia vacuum exhausts are needed on the wall. A through-the-wall autoclave is preferred. Additional bench casework is needed along the east wall. Gary suggested that this room switch location with the Exam room in order to be along a perimeter wall.

2.10 Misc. – A Data Closet needs to be added to the floor plan. It is acceptable for the casework cabinets to use Wire Pulls. The scrub sinks should have infrared faucets.

3.0 Action Items from Previous Meetings:
3.1 **Room Data Sheets** - The comments on the project program data and floor plan sheets by the faculty are due by June 8, 2005.

**Action:** Mt. SAC
A meeting was held at the office of Bovis Lend Lease on Tuesday, 8 June 2005 from 10:30 AM to 4:00 PM.

Those Present:

**AC Martin Partners, Inc (ACMP)**
- Craig Wilson
- Frederick Marks
- Craig O'Connor
- Paul Coleman

**Mount San Antonio College (MtSAC)**
- Larry Redinger
- Tom Visosky
- Brian Scott
- Audra Lopez
- Carol Gundlach
- Gary Uyeno
- Jean Hoffman
- Hop Estes
- Gary Nellesen
- Becky Mitchell

**Bovis Lend Lease (BBLL)**
- John Beckton
- Jake Brady

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:

1.1 The purpose of the meeting was to review a progress set of Schematic Design Phase drawings for each of the Agricultural Sciences Complex project buildings:
main Agricultural Sciences, Greenhouse, Swine Unit, Equine Tack Unit, and Raptor Unit.

2.0 Discussion:

2.1 Project Status - The state of the design project was summarized by ACMP. Craig O'Connor referenced the meeting agenda, highlighting accomplishments and future obligations. The next milestone date is June 21, 2005, when the Schematic Design Phase will be completed.

2.2 Project Budget and Administration - Gary explained how and why the construction budget was increased by $2.3 million. It was noted that additional monies will be used to improve the farm infrastructure beyond each of the project building envelopes. Gary clarified that while the Facilities & Management Department will be responsible for the overall process of the Science Complex project, John Beckton will be the point of contact on a daily basis “addressing the needs of the customer,” and leading the construction management team. The goal, as Gary sees it, is to deliver good, functional buildings that respect the current campus standards.

2.3 Main Agriculture Building -
1. Further evaluation is needed on whether to provide a means of travel (stairs and ramp) between the Agriculture building and the Tractor Barn to the north. It was agreed that a service road leading from the Tractor Barn to the Ag bldg. was not needed.
2. It was recommended that the stairs in front of the south entrance should be extended to a drop off area at the parking lot. The location of the accessible sloped pathway or ramp should be given further study.
3. John Beckton will have a follow-up discussion with Gary Nellesen on the limits to the building envelope.
4. The exterior demonstration area for planting will require hydro-seed.
5. There needs to be clarification on what part of the site improvements will be maintained by the Agriculture Department vs. the campus.
6. Storage for computer carts needs to increase. There will be approximately 70 student computers in the building.
7. Commercial grade garbage disposals will be needed for room 114, Anatomy Lab. Soil traps will be needed for room 104, Soils Pest Management. These sinks will require bench counter covers.
8. The Anatomy Lab will have fixed desks.
9. It would be desirable for the lobby to have wall cabinets for displays.
10. Lockers are not required in the first floor restrooms. ACMP will attempt to relocate these restrooms so that they are entered from the building interior.
11. Four (4) foot wide chemical fume hood with a vertical sash is needed in the Animal Science Anatomy Lab (114) and Storage Room (112). One is also required in the Soils Prep Room (107). The hoods require water with a cup sink and other piped services (to be determined). A safety station and separate bench sink eye-wash will be installed near these locations.
12. The whiteboards need to be relocated in rooms 110 and 111 to accommodate the retractable partition.
13. The Cat Storage Room (136) will require negative air pressure to room 112.
14. Two insulated environmental rooms will be provided, noted as rooms 139 and 137.
15. The Floral Lecture room (105) will have a stainless steel scullery sink.

16. The Prep Room (128) in the surgical suite will need dead-lock door hardware.
17. A Janitor Closet and a Cylinder Tank Closet for oxygen will be placed near the entrance to the surgical suite.
18. Hazardous materials will be stored in a free-standing, 7 ft x 5 ft fire-rated unit, to be located in the Treatment space (135). It has the capacity to meet NFPA, OSPHA, and EPA regulations. It was noted that pesticides, for example, cannot be stored in teaching laboratories in excess of 48 hours.
19. The Treatment space (135) will require flood lights.
20. The Dog Kennel area will be shown with dash lines (Owner supplied and furnished).
21. Campus standards allows for two people to be accommodated in a 140 SF office.
22. The proposed exterior construction materials for the Ag. building are concrete block base, corrugated metal siding, cement plaster siding, and aluminum extruded window frames with high performance glass. The roof material will be corrugated metal.

2.4 Hay/Feed/Tack Barn
1. A concrete block base or wainscot will be considered for the walls.
2. A concrete block wall is needed up to a minimum of 6 ft at the equine wash area. Hitching posts are needed for the horses.
3. The Tack Room requires that there be no gaps in the vertical or horizontal building planes in order to prevent rodents from getting in.
4. The hay storage area needs three sliding doors, each 10 ft wide with a vertical clearance of 12 ft.

2.5 Raptor Recovery Unit
1. The occupied nursery section will require general HVAC. It will use sinks, refrigerators, incubators, and, at recovery tables, radiant lamps.
2. Corrugated metal siding will be used for the nursery and the caged areas. Aviating netting will be draped within the cage areas. There should be a 2-3 ft deep concrete base below the finished grade around the entire caged area. Exterior flood lighting needs to be provided at critical locations. Parts of the cage roof need to be covered with metal panels.
3. The concrete pad for the individual mews will be increased in size and surrounded by a cage.

2.6 Swine Unit
1. Holding pens for the pigs may be placed outside the modular animal care building.
2. It was noted that the unit may require a gowning room and showers.
3. It was noted that it is still advisable to refer to the building that will house swine as the Animal Care Facility.

2.7 Greenhouse-
1. As a placeholder, ACMP is presently referencing a Stuppy manufactured greenhouse, stock # 2350. This will be conveyed to Dave Lannom for planning purposes.

2.8 Farm Complex- A tour of the existing farm was given immediately following the formal presentation meeting.

3.0 Action Items from Previous Meetings:
3.1 Savings By Design- Need to verify that Mark Davis at Southern California Edison has processed the paperwork for the Agriculture Science project.
   **Action:** ACMP/BLL

Frederick M. Marks, AIA
Director of Science & Technology
A meeting was held at the Agricultural Sciences Department Office, Mt. SAC on Thursday, 23 June 2005, from 11:00 AM to 4:15 PM.

Those Present:

AC Martin Partners, Inc (ACMP)
Frederick Marks
Craig O'Connor
Paul Coleman

Mount San Antonio College (MtSAC)
Larry Redinger
Tom Visosky
Audra Lopez
Carol Gundlach
Gary Uyeno
Jean Hoffman
Hop Estes
Randy Storm
Dave Lannom
Jesus Ramirez

Bovis Lend Lease (BLL)
John Beckton

These conference notes shall be considered substantially correct unless written notice to the contrary is received by the writer within seven (7) days.

1.0 Purpose of the Meeting:
1.1 The purpose of the meeting was to review a progress set of 100% Schematic Design drawings for each of the Agricultural Sciences Complex project buildings: Main Agricultural Sciences, Greenhouse, Animal Care Facility, Equine Tack Unit, and Raptor Rehab Unit.

2.0 Discussion:

2.1 Project Status - The user comments from this meeting will be reflected, after a review by John Beckton, in the Design Development (DD) drawings that are currently being prepared by ACMP. The DD documents are scheduled to be completed on July 19, 2005.

2.2 Project Budget and Administration - John B. stated that BLL is reviewing the construction cost estimate recently prepared by ACMP's consultant for the 100% Schematic Design Submittal (50% PP). The project budget is now fixed at $16.3 million. BLL will determine whether adjustments will have to be made to reduce expenses, affecting site improvements, the interpretation of the program, and/or the materials selected for the buildings. Some expenses may be shifted to other campus capital improvement accounts.

2.3 Main Agriculture Building -

1. Based upon a meeting that ACMP had with the Division of State Architect's office (DSA) – Access Compliance Section - handicap parking for the main Ag. Sciences Bldg. may be accommodated in one of two ways. First, by being placed in the rear (northeast corner) of the new building with a hammerhead for turning and a 20 ft drop off area. Second, by dedicating spaces for a van and cars in the existing parking Lot F.

2. The Ag. Sciences Dept. will need access for a 20 ft long trailer that may grow to 40 ft in total length including the truck. The users also requested that a vehicular path be considered near the dry feed lots (northeast corner) and that it have a connection to the Tractor Barn area. Further discussion determined that this vehicular access was not needed but that additional staff parking would be developed west of the Tractor Barn.

3. With the need for delivery van drop-off access to the Floral Lab (#105), the floor plan location of this lab space will be switched with the Landscape Lab (#108) location so that it will occupy the southwest corner of the building. A service access road/pedestrian walk will be provided from Bonita Drive to the southwest corner of the building to service the relocated Floral Lab.

4. In reviewing the landscape drawings, it was noted that there should be fewer California Pepper trees, an additional landscaped buffer on the east side of the building, and no turf plant material on the south side near the entry. The list of specimens on the drawings needs to be updated per campus standards. It was noted that trash, blown by the wind, collects along physical barriers and becomes a hazard to the local fauna. The landscape layout should take this into account.

5. The refrigerated cooler in the lobby (Rm. 103) will accommodate floral displays for purchase. There needs to be storage space immediately behind
it. The floral storage room (#139) will be operated at 50 degrees F and require a floor drain and glass door(s).
6. The cat storage room (#136) will be relocated to the north end of the Anatomy Storage room. The walk-in cooler (#137) will be relocated to the south end and be equally subdivided for a freezer (to be operated at 40 degrees F) and a refrigerator. Anatomy Storage (#112) will have doors to rooms #110, 111, 113, and 114.
7. Natural gas will be supplied to the Anatomy and Soils labs and have fixtures at the bench counter tops.
8. The size of the perimeter wall windows have been increased where appropriate to provide more natural light.
9. The server room (#119) will be merged into the telecom room (#138). This room will be the central receiving point for data lines including fiber optic lines from elsewhere on campus.
10. Gary Uyeno asked if a trench drain be installed where the dog kennels are anticipated to be erected at a later date after Ag. building is operational. That portion of the Treatment floor slab would slope to the north.
11. Paul C. proposed that there be open ceilings in the classrooms and laboratories but this suggestion was overruled by John Beckton who sited a T-bar ceiling as the campus standard, also noting that it is potentially more efficient from an HVAC standpoint.
12. The open area in the Administration suite (#201) will need access to electrical power.
2.4 Hay/Feed/Tack Barn-
1. The exterior façade materials should be uniform throughout the building.
2. Water should drain to the west at the equine wash area.
3. The vertical clearance for the hay storage sliding doors will be increased to 14 ft.
2.5 Raptor Recovery Unit-
1. The interior layout for the occupied nursery has been modified by Gary to improve circulation and function. The caged area for the mews will increase in size and be located to closer to the flight zone caging.
2. Jean recommended that the area of the flight zone be reduced. The cage should be 12 to 15 ft wide and not exceed 12 ft in height. The total length of the run, including the embankment, can be 40 ft.
3. The birds expected are red-tail and red-shouldered hawks, kestrels and barn owls.
2.6 Animal Care Facility -
1. Randy referred to a January 27, 2005, quotation that he received from TechSpace for a 14 ft x 96 ft double-wide 6-crate farrowing/60 head nursery building with a classroom. The total cost listed was $124,550 ($92.67/sq ft), not including shipping and fees. The building was specified for "Ag" use in terms of the building shell, ventilation, and room equipment. On June 20, 2005, ACMP received another quote from TechSpace in the amount of $646,100 ($453.73/sq ft), including shipping and fees. The building was specified for "Research" use and included 3 holding pens, 8 farrowing crates and a nursery for up to 80 infants. A discussion ensued over what the farm
required for teaching and production that would consider the health of the animals, care takers, and students. It was agreed that a clarification was needed from TechSpace and that a meeting may be necessary between the manufacturer, Randy, ACM, and BLL.

2. The Holding area can either be a modular unit or a conventional constructed building with concrete block. Randy said that besides the three pens for 2-3 mature pigs, there needs to be two 8 ft x 4 ft pens for one boar each. Neither radiant heating nor HVAC is needed. An overhead watering system is required with misters; this will periodically be cleaned with chemical flushing. It is important to prevent temperature swings and to not allow the room to exceed 80 degrees F; the space should have a thermostat and an exhaust fan(s). A fly control system is needed with control valves for each pen (5/8” tubing; reference Fly Guard). Lighting can be 1 ft x 2 ft hanging fixtures. There will probably be pre-fabricated feeding equipment and overhead spickets attached to the water line. A rounded channel trough can accommodate waste placed to the rear of the pens; it would have flush valves and a ball valve with drains. Any metal materials should be stainless steel.

3. The Farrowing will have a submersible sump pump for flushing out waste that will fall through stainless steel floor grates into standing water. This waste system adds 18 inches to the modular unit’s height. There needs to be conditioned air in this area and the Nursery but not for research quality.

4. The Workroom will need windows into the Farrowing and Nursery areas. There needs to be a stainless steel hand wash (wall mounted) trough for students. A floor drain is required in the center of the room. Electrical power can be accommodated by a retractable ceiling mounted reel. Room needs hose bibs (1” spicket off 1 ½” line). The bench mounted hand wash sink will need a garbage disposal. There should be one tall stand up cabinet. One of the side rooms will be for storing feed (rodent proof). A gowning room and showers is not required. The entry door should be 4 ft wide to accommodate large loads.

2.7 Greenhouse-

1. Rolling benches (tables 6 ft x 8 ft) will take up 90% of the effective floor space.

2. The unit should be sited for the prevailing southwestern wind. There should be an air circulation system and natural gas heating.

3. The floor will primarily be a permeable surface consisting of approximately 1” of pea-gravel laid over 2 3/4” gravel/rock. A 4 ft wide concrete walkway is required running lengthwise along the perimeter wall (south side pursuant to a request by Dave Lannom on June 24).

4. Photoperiod lighting is not required. A thermal curtain is created with shading during the day and the control of roof louvers at night. The minimum height of greenhouse sidewall shall be 12 to 15 ft. The wall material should be ‘lexan’ glazing, to provide a full spectrum of light. The benches will require 1500 to 2000 foot candles of direct light.

5. The unit will need electrical power for fans and some convenience outlets at 120 V.
6. An overhead watering system will dispense fertilizer through a variation in chemicals.
7. There will need to be an outdoor staging area near the greenhouse entrance for loading and receiving plants, supplies, equipment.
8. There should be a landscape buffer around the edge of the entire building.
9. Fire truck access to the greenhouse should consider a road to the existing nearby fire hydrant (northwest corner of site).

3.0 Action Items from Previous Meetings:
3.1 Savings By Design - Need to verify that Mark Davis at Southern California Edison has processed the paperwork for the Agriculture Science project.
    Action: ACMP/BLL

Frederick M. Marks, AIA
Director of Science & Technology
MEETING NOTES No. 1

Date of Meeting: July 11, 2005

Place / Project: Mt. SAC Maintenance Office

Sheet No. 1 of 4

GBE #: 205-105-01

Attendees:
- Kent Smith, Director of Maintenance
- Matt Thatcher, Plumbing
- Pete Ruiz, HVAC
- K. Anglin, E. Soladay, (GBE)

Don Hurdle, Electrical

Distribution:
- Kent Smith, Mt. SAC
- Sally Ehrmann, GBE
- Craig O'Conner, AC Martin
- Eric Soladay, GBE
- Craig Wilson, AC Martin
- Fred Marks, AC Martin

Note: These minutes are the record of the meeting and shall stand as the official record, unless changes or errors are noted to GBE no later than the lesser of the next meeting or ten (10) days.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Responsible</th>
<th>Due Date</th>
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</table>
| 1    | Reviewed Agricultural Science Building HVAC package units and zoning.  
   a) Package units with VAV heating hot water reheat boxes are acceptable. Package units will be located on the roof.  
   b) All HVAC zoning shown on GBE drawings dated 6/22/05 is accepted by the College with the exception of the offices on the second floor. The College would like the offices without thermostats to have thermausers for better control of the individual's rooms.  
   c) Classrooms will be on sensors  
   d) Offices will be set to allow occupants to adjust temperature +/- 3 degrees  
   e) GBE has scheduled Carrier Equipment, which is acceptable to the College. | Information |          |
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<tr>
<th>Item</th>
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<tbody>
<tr>
<td>2</td>
<td>The Building Automation System (BAS) Standard at the College is Automated Logic Control. New buildings to be the same and connected to Campus System.</td>
<td>Information</td>
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<td>3</td>
<td>Telecom/Server room will utilize Stand-Alone wall mounted split system with condensing unit on roof.</td>
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<td>4</td>
<td>Boilers to be RayPak with copper tube. Copper pipe to be used for heating hot water piping up to 4&quot;.</td>
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<td>5</td>
<td>Equine Unit will be Ventilation Only with wall mount prop fan and thermostat control-confirmed by College. Toilet rooms will have room exhaust.</td>
<td>Information</td>
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<td>6</td>
<td>Raptor Unit will use split system (heat pump) with condensing unit located outside near workroom. Fancoil to be mounted above workroom #3 on platform. Exposed duct in workroom.</td>
<td>Information</td>
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<td>7</td>
<td>Animal Care Facility currently has one 15-ton packaged heat pump unit located on the roof. If this system does not work because of roof, may go to two 7.5 ton split systems. GBE to coordinate with Architect. Follow up discussion with Architect indicate that the two 7.5 ton systems should be utilized. Units will be located above storage and restrooms.</td>
<td>Information</td>
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<td>8</td>
<td>Greenheck Fans, Strobic Air and Bell and Gossett pumps all reviewed and approved by College. College would prefer that Bell and Gossett pump be inline close-coupled type.</td>
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<td><strong>Plumbing</strong></td>
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<tr>
<td>1</td>
<td>Copper to be used on all domestic water piping.</td>
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<td>2</td>
<td>Wall Hung water closets were confirmed with the College to be the preferred method of mounting for ease of cleaning by the maintenance staff. However, Floor Mount water closets are also acceptable. Subsequent to the meeting with the College, AC Martin called attention to the fact that Bovis is requesting Floor Mount fixtures. Floor Mount to be scheduled at this time.</td>
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<td>3</td>
<td>Plumbing Fixture schedule reviewed:</td>
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<td>a) American Standard WC-1, WC-2 and WC-3 – accepted will require 110 ES Flush Valve. (Accessible Water closets shall have sensors, non-ADA water closets do not require sensors)</td>
<td>Information</td>
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<td>b) Falcon Waterless Urinals U-1, U-2 – <strong>TBD</strong> – accepted for Preliminary Planning per AC Martin</td>
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<td>c) American Standard Lavatories L-1, L-2 – accepted utilize Chicago Faucet</td>
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<td>d) Haws Model 1010 DF-1 accepted</td>
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<td>e) MS-1 Florestone floor mounted mop sink accepted</td>
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<td>f) FD-1 and FS-1 – JR Smith accepted</td>
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<td>g) Hose Bibb HB-1; HB-2 modify from Woodward to ACORN</td>
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<td>h) Water Hammer Arrestor, Trap Primer, Floor Cleanout, Wall cleanout, Area Drains and Stainless Steel Sink all accepted as shown on 6/22 SD Set.</td>
<td>Information</td>
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<td>i) Roof Drains and Overflow Drains shall be JR Smith</td>
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<td>j) Backflow Preventor shall be specified FEBCO</td>
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<td>k) Hose Reel HR-1 – Cox Reels accepted.</td>
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<td>l) Accessible shower SH-1 – no preference.</td>
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<td>m) SSS-1 Surgical Scrub sink accepted – use Chicago Faucets for all.</td>
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<td>n) Prep Table-PT-1 TBD</td>
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<td></td>
<td>o) Automatic Dog Watering System – eliminated – no kennels – per AC Martin email dated July 7, 2005</td>
<td>Information</td>
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<td>p) Clothes Washer and Dryer’s – no preference</td>
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<td>q) ES-1, ST-1 and MV-1 accepted.</td>
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<tr>
<td>4</td>
<td>Hose bibb with Trench Drain to be used in Ag Science recovery room 134. (Flush inlet not required)</td>
<td>Information</td>
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</table>

**Building Utility Connections**

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<th>Item</th>
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<th>Due Date</th>
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<tbody>
<tr>
<td>1</td>
<td>Water (domestic/fire) and Sewer on Ag Science building will come from the South instead of North as noted on SD set. GBE to coordinate with AC Martin on location of Fire Department Connection, Fire Riser in building, etc. <strong>Coordination with AC Martin indicates that Fire Riser will be located outside east wall of recovery room 134 along with the FDC.</strong> Sidewalk on East side should route about riser. Gas connection to be at Mechanical Room. <strong>Campus Standard Specifications require individual Gas Meters at each building.</strong></td>
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<tr>
<td>2</td>
<td>Waste and Water on West side for ACU. There is no gas in the vicinity of the building; AC Martin to determine if gas connection required for pre-fab building. <em>Per discussion with AC Martin, Gas will be stubbed into building for Preliminary Planning.</em></td>
<td>Information</td>
<td></td>
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<tr>
<td>3</td>
<td>Waste to South and CW and Gas to North on Greenhouse.</td>
<td>Information</td>
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<tr>
<td>4</td>
<td>Waste and Cold Water to West on Raptor Unit. No gas in vicinity of Building. AC Martin/GBE to coordinate on electric versus gas radiant heaters. <em>Per discussion with AC Martin, preliminary information suggests that Radiant Electric Heaters should be used. However Preliminary Plan will also show gas.</em></td>
<td>Information</td>
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<tr>
<td>5</td>
<td>Cold Water and Waste to South on TACK unit-no gas required</td>
<td>Information</td>
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<tr>
<td>6</td>
<td>Ag Science building is the only sprinklered building.</td>
<td>Information</td>
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<tr>
<td>5</td>
<td>Don Hurdle prefers 480Volt service for Mechanical System at the Ag Science Building and Animal Care due to the large size of the Package unit. All other buildings can use 208/240 volt.</td>
<td>Information</td>
<td></td>
</tr>
</tbody>
</table>