Distributed Antenna System
Kenan Stadium, UNC at Chapel Hill
BI-WEEKLY PROGRESS MEETING
July 16, 2014

The bi-weekly progress meeting for the above referenced project was held on Wednesday, July 16, 2014 at 9:30 AM. The following representatives were present at the meeting:

Corley Redfoot Architects Inc.         Ken Smith
CTS             Charles McClendon, Ron Standley
University of North Carolina         Dana Leeson, Richie Grimsley
                                            Nate Hilton, James Spurling
Bass Nixon and Kennedy                    Larry Nixon

1. Exceptions to Minutes of Last Meeting

There were no exceptions to the minutes of the previous meeting.

2. CTS Discussion & Comment

North Box:

- Charlie advised that he would probably have to take up some seats at five locations at Level 5 so he could get scaffolding in place for the antenna installation in these area. James noted that he had scaffolding coming that would roll down the risers without removing the seats. James had concerns about the anchors for the seats wringing when attempts to remove the nuts are made. CTS will revisit this situation.
- Charlie noted that the NEMA boxes are in and CTS will now start tying everything together and going back to the AC units.
- The AC units cannot be set but will be 100% complete in 7 days.
- The mounting plates for the pair antennas will be on site on July 24.
- The installation of the platforms will be 100% complete by July 18.

South Box:

- The conditions on the south box are similar to the north box.
- The power plant will be set on the south box by the end of the week.
- The installation and termination of coax will be complete by August 29; this work falls back to the installation of the NEMA boxes.
- The platforms are complete except for the rails.
- The NEMA enclosures will start on July 16 and be complete July 23.
- The installation of the ION-B remotes will be complete by July 23.
- The installation of the Galtronics antennas will start on July 24.
Loudermilk:

- All access panels are now installed; CTS was able to eliminate some of the planned access panels.
- The antennas are installed on the bowl side.
- The pathway from the telecom room to the walls on the plaza side at concourse level has been established and there are no problems.
- The termination of the fiber to the remotes is now 100% complete.
- The installation of the outdoor antennas at concourse and at the patios will be 100% complete on July 21.
- The DC power wiring will start on July 21.
- The fiber testing to the remotes will start on July 29.

Football Center:

- CTS has confirmed that there is no way to get into the FC from the tarmac area; there is a true 90 degree bend in the conduit that will not allow the fiber to pass; the stiffener on the fiber will not allow a bend that tight.
- CTS plans to go up the south sidelines and feed into the FC where the dryer vents are located and take it into the power plant location.
- The plan is to feed out of the building for the bowl at third level; this will require the installation of a few more access panels.

Field Level:

- CTS met with the padding company on July 15 and confirmed delivery of the new pads for the west end zone within a couple of weeks; there is no concern about these new pads being in place prior to the first game.
- Charlie advised that the contractor was having to saw cut the tarmac to install a 4" conduit in place between the two Quazite boxes because only a 2" conduit is in place and it is not adequate.

3. UNC Discussion & Comment

- James Spurling asked what additional work has to be done between floors at the North Box and Charlie said he had some floor cores from 4th to 5th level; James asked if he could proceed with those cores as soon as possible because James has to get the Chancellor’s Box ready for use by August 16; Charlie said he would see if he could get the holds bored on the day of the meeting.
- James said he has already started his prep for the season in the stadium; he noted that CTS can work in the bowl on August 2 but they cannot work on August 3; this date should be treated just like the date for the fireworks, i.e., the lifts will have to be out of sight, etc.
- James noted that the tour days will be starting by the end of the month and there will be a lot of traffic; he hopes that the prospects will have the
cars parked either in Rams Head or over at the Smith Center; he also noted that the ice vats will be in place.

- James noted that the Verizon system is in place not in the FC; CTS confirmed that it will still work until the DAS is on line.
- Dana Leeson asked if there was any equipment to be maintained by the Owner; Ron Stanley said that he carriers will take care of maintenance on the equipment; Dana said that facilities conducted routine PM tests by checking circuit breakers, etc. Ron said the battery backup systems would prevent any problems just as if there was a main power failure.
- Ron Stanley added that the carriers have an obligation to maintain the system per the carriers’ agreement with UNC and he is not a party to the exact details of that agreement.

4. BNK Discussion & Comment

- Larry Nixon said he was concerned about the 90 degree bend in the conduit at the FC not being shown on the as-builts. CTS noted that the bend is still there only now the Owner has a pull string in place.
- Larry said he planned to bring Amanda Andrassy with him for the August 6 meeting so Designer review of the NEMA installations could begin.

5. CRA Discussion & Comment

- Ken Smith asked the plans for the painting of the tarmac. CTS indicated that they planned to repaint the entire tarmac, not just the areas where the tarmac was patched.
- Ken Smith noted that Rob Stevenson with LHC has reviewed the installation of both platforms on the south side, including the modifications to the mounting procedures as noted in his field report. Rob will return to the site for a final review of the platforms once all railings are installed and all welding is complete but before final painting is completed.

6. General Discussion & Comment

- Charlie will get Ken Gibson with PowerWorks to call Stanley Frazier with the SCO to determine what inspections are necessary for final approval of the electrical work.
- The rails and the platforms were discussed. The platforms came in prime painted over the galvanized finish. The railing are coming as hot dipped galvanized also. The railings and the platforms will need to be finish painted Carolina Blue has noted on the drawings.
- CTS noted that the work hours would now increase as needed to assure the work scope being completed in time for the first home football game.
The general consensus of the group was that work was proceeding according to plan, there were no incidents to report, and the final date for completion would be met.

Ken Smith thanked the attendees for their time and advised everyone that the next monthly progress meeting is scheduled for Wednesday, August 6, 2014 at 9:30 AM.

The above items are the Designer’s summary of the discussions that took place during the meeting. Should any recipient of a copy of these Minutes disagree with or have a comment concerning any of the items, please respond in writing to the Designer within five (5) days of receipt of the Minutes. Otherwise, these Minutes will stand as correct and as an accurate record of the project status.

Respectfully submitted,

[Signature]

Ken Smith
KES/kes

Cc: Kenan DAS Team Members