Date: **January 16, 2024**

To: **Associated Builders Inc.**

Attn: **Matthew Buck**

Project: **Renew CCS-AT- Kudu Yard**

Client Proj. No. **2033108**

**architrave** No. **1401.39**

Prepared by: **Owen Weinstein**

**Description:**

Carry out the Work in accordance with the following supplemental instructions issued in accordance with the Contract Documents.

ASI-003 is issued at the request of SI to add Scope to the existing project. This Scope includes but is not limited to:

* Reconfiguration of the Kudu holding yard and transfer area.
* Addition of a new hornbill barn
* Addition of new hornbill outdoor enclosed area
* Replacement of floor drains at Kudu Barn
* Replacement of Kudu Barn heating system
* Relocation and re-installation of Tamer from CCS-AT main campus
* Improved drawing coordination with ongoing security fence project
* Grading, panting, and irrigation, as shown

ASI-005 is issued at the request of SI for the following:

* Graphic update of the fence linework, based on ASI-004 completed by the Ayers Saint Gross AE team for coordination with ongoing security fence project
* Scope clarifications for pricing, see attached spreadsheet of pre-bid questions
* Clouding all undocumented changes from the 6/9/23 Kudu Final CD submission

See the drawing for and specs dated 11/3/23 for changes and new work. The provided narrative is only to assist in review and does not supersede the Contract Documents.

**Changes by sheet:**

**KG 001 COVER SHEET KUDU:**

* The sheet list was updated to add new sheets and revised sheet titles.
* The total sheet count is now 29.

**KC 110 CD DEMOLITION PLAN formerly KC 000 CS DEMOLITION PLAN**

* Tree protection was added around trees to remain.
* Callouts for existing items to remain were added.
* A list of trees to be demolished was added.
* A note to refer to the planting plan was added.
* The legend was updated for clarity.
* Area of gravel to be demolished was added.
* Updated background coordination with the ongoing security fence project
* Revised Kudu Yard Project tree removals
* Revised graphic line-type update for tree protection
* Revised graphic for trees removed as a part of security project (shown in pink)
* Revised “gravel” to “decomposed granite”
* Revised extent of fence to be replaced in kind
* Added keynotes legend to identify ETR items
* Added (1) keynote for existing curb to be cut
* Added keynote for existing concrete pad to be replaced
* Added keynotes for (2) existing fencing lengths to be replaced in kind
* Removed keynote 6

**KC 120 CS OVERALL SITE PLAN formerly KC 100 CS PROPOSED SITE PLAN**

* Locations of new hornbill yard and barn shown.
* New proposed storm line around new hornbill yard and stalls.
* Callouts for expansions joints.
* Fence to be replaced in kind added.
* Updated background coordination with the ongoing security fence project
* Added note and legend for assumed location of existing waterline
* Added note referring to planting plan
* Added and then removed detail for downspout
* Added limits of project
* Revised detail for timber step for clarity
* Revised note re: retaining wall by others for clarity with security fence package
* Revised note re: hydrant, drinker and concrete pad
* Removed planting plan information

**KC 130 CSC EROSION AND SEDIMENT CONTROL PLAN formerly KC 101 CSC EROSION AND SEDIMENT CONTROL PLAN**

* New sheet added because of the addition of the hornbill yard and barn.
* Updated background coordination with the ongoing security fence project
* Added root matting
* Added stockpile area
* Revised Limits of disturbance (LOD)
* Revised stabilized construction entrance
* Revised tree protection extents
* Revised tree removals

**KC 501 DT EROSION AND SEDIMENT CONTROL DETAILS**

* New sheet added because of the addition of the hornbill yard and barn.

**KL 101 LS KUDU YARD IMPROVEMENTS**

* Changes to the holding building, management yard fencing layout, tamer, and gate locations, addition of three new gates.
* Dig barrier added
* Gate schedule and gate control schedule moved to 402 LS (new sheet)
* Updated background coordination with the ongoing security fence project
* Added gate K18 at east side of yard
* Added Hornbill shed and enclosed yard
* Added notes re: Hornbill shed and enclosed yard
* Added note re: ETR fence
* Added note re: new plan enlargement sheet
* Revised existing shrub information
* Removed schedule (on new sheet)
* Removed gate control enlargement (on new sheet)

**KL 102 PP KUDU YARD PLANTING PLAN**

* Changes to the holding building, management yard fencing layout, tamer, and gate locations, addition of three new gates.
* Revisions to planting beds, planting palette, overseeding of exhibit yard with grasses added.
* Updated background coordination with the ongoing security fence project
* Removed planting details (on new sheet)

**KL 107 LI KUDU YARD IRRIGATION PLAN**

* Entire drawing was enlarged from 1/16” to 1/8” and legends/notes reorganized to increase legibility.
* Changes to the holding building, management yard fencing layout, tamer, and gate locations, addition of three new gates.
* Updated background coordination with the ongoing security fence project
* Updated legends and note organization for clarity
* Revised scale of plan from 1/16” to 1/8”
* Revised valve calculations in valve schedule
* Removed previous note 4 re: control valves
* Removed previous note 12 re: control valves

**KL 108 DT IRRIGATION DETAILS**

* Detail 6 text was enlarged to 1/8” high, the phrase “as required” was removed from the end of “Detect-a-tape 6” above pipe.”
* Revised scale of trenching details 6
* Removed sprinkler riser detail 3

**KL 402 LS KUDU YARD ENLARGEMENT**

* New sheet to show management yards in larger scale
* Changes to the holding building, management yard fencing layout, tamer, and gate locations, addition of three new gates.

**KL 501 DT KUDU DETAILS**

* Additional HHS support added to Detail 6
* Revised latch detail for swing gate
* Revised gate details to show introduction ports and security drop bar at horticulture gate
* Revised portal and hardware details for K118, see schedule
* Revised notes, detail 5
* Removed scale figure, detail 4
* Removed scale figure, detail 5
* Removed detail 7 (animal containment ceiling)
* Removed detail 6 & 8 (sliding gate, hornbill management elevations)

**KL 502 DT KUDU YARD PLANTING DETAILS**

* New sheet with planting details previously located on KL 101 pp and KL 501 DT

**K S 001 FP DESIGN NOTES AND ABBREVIATIONS**

* Updated chain link fence design load requirement
* Removed animal containment fence load
* Updated design lateral pressure for retaining wall
* Added design notes for wood framing

**K S 701 DT KUDU PLANS AND DETAILS**

* Drawing sheet name and number changed. Previously KS-501 DT.
* Renumbered 2/KS-501 DT as 3/KS-701 DT.
* Renumbered 3/KS-501 DT as 4/KS-701 DT.
* Partial plans 1 and 2 added.
* Reduced footing depth and omitted rebar. Removed outrigger at the top of the fence. Previously 5/KS-501 DT.
* Deleted 6/KS-501 DT.
* Renumbered 14/KS-501 DT as 6/KS-701 DT.
* Reduced fence gate footing size from 5’-0” square to 4’-6” square.
* Added new details 7 through 11.

**KA 401EP FLOOR PLAN AND ELEVATIONS - BARN J (KUDU)**

* Key notes and sheet notes updated to capture new scope on Kudu barn
* New key notes on interior elevations for removal and inspection of wainscoting
* Detail 17 replaced with a new drain detail
* Drawing 1 updated to reflect new doors and mat drying rack.
* New sliding doors per schedule. Location of door controllers for new interior sliding doors and location of door controllers for existing interior sliding doors. Updated plans and elevation to show door controllers.
* New Hornbill yard
* Revised door types with viewports Drawing 2
* Revised door types with viewports Drawing 3
* Revised sliding door type Drawing 7
* Revised Drawing 4 MEP equipment not shown in elevation
* Revised elevations Drawing 8 & 9
* Replaced Drawing 18 with new Drawing 19 RCP (previously photo)
* Moved Drawing 1 note 0501 to new Drawing 19

**KA 402EP FLOOR PLAN AND ELEVATIONS - BARN J (HORNBILL)**

* New sheet - documenting architectural scope required for the Hornbill barn/ enclosure

**KA 403 FP KUDU BARN HORNBILL YARD AND HORNBILL BARN DETIALS**

* New sliding doors per schedule. Location of door controllers for new interior sliding doors and location of door controllers for existing interior sliding doors. Updated elevation to show door controllers.
* New Hornbill yard and stalls. Floor plan and elevation added to drawings.
* New Nelson drinkers in Hornbill yard.
* An updated door schedule with new guillotine doors, swing doors, and sliding doors were added and numbering.
* Revised schedule to reflect solid wood doors and frames to new FRP

**KA 404 DT KUDU BARN HORNBILL YARD AND HORNBILL BARN DETAILS**

* New detail sheet to include: hornbill yard mesh enclosure details, and attachments.
* Guillotine door details, sliding door details.
* Type 1 and type 2 single-door pulley operators.
* Added drawing stamp

**KA 501DT FLOOR PLAN AND ELEVATIONS - BARN J (HORNBILL)**

* New sheet - documenting architectural scope required for the Hornbill barn/ enclosure
* Added wall and curb dimensions on 1/KA-501 DT
* Revised sand depth for 2/KA-501 DT

**KM-001 HVAC LEGEND**

* Added EPUH abbreviations to mechanical symbols and abbreviations.
* Added drain schedule.
* Added fan schedule.
* Added propeller unit heater schedule.
* Added DDC- input/output point schedule.
* Added propeller unit heater controls sequence and operation.
* Added exhaust fan controls sequence and operation.

**KMP-401 KUDU BARN - PART PLAN - HVAC & PLUMBING**

* View 1
  + Demolished all exhaust fans, intake louvers, electric propeller unit heaters, and associated thermostats.
* View 2
  + Indicated new intake louver with backdraft dampers
  + Indicated new exhaust fans with backdraft dampers
  + Indicated new propeller unit heater and associated thermistor locations
  + Heating and ventilation system provided for new hornbill barn.
* View 3
  + Indicated revised and indicated additional stormwater outfall locations
  + Indicated demolish of existing floor drains.
  + Extended new cold water line to serve the new hornbill barn.
    - Indicated distribution piping to new frost proof hose bib
    - Indicated distribution piping to serve new wall mounted animal drinkers.
* Revised keynotes 1,2,4,5
* Added keynotes 8 thru 16
* Removed reference to civil drawings for continuation of existing water line.
* Corrected existing floor drain locations.
* Modified existing HB location to a new location that coordinates with temporary BAS panel.

**KE-001 ELECTRICAL SYMBOLS & ABBREVIATIONS**

* Eliminated some but not all superfluous symbols and abbreviations.
* Eliminated fire alarm symbols.
* Added some abbreviations.
* Added some power, existing to remain, systems, and lighting symbols.

**KE-101SP ELECTRICAL SITE PLAN**

* .
* Added connection to existing watering station.
* Eliminated Panel NB4 and its associated feeder.
* Added “existing” Panel RP and its associated feeder.
* Made explicit that one of the four spare conduits from the Cheetah Conservation Station to the Kudu Barn was for security; another, data.
* Changed location of security camera pole.
* Changed location of data stub-out to Yard Six.
* Added edge of Hornbill stalls
* Required Kudu Contractor to provide conduit for various systems from the Kudu Barn part-way towards the Cheetah Conservation Station and cap underground.
* Changed route of telecommunications bonding backbone conductor and building automation systems duct bank.

**KE-101FP ELECTRICAL PLANS**

* Adjusted background on all plans to show updated wall between Kudu Stall J2A and Kudu Stall J2B.
* Changed heating system connections to EPUHs.
* Eliminated some receptacles.
* Changed lighting control location for Hornbill Stalls.
* Altered location for security conduit, video surveillance wiring, and data conduit to Yard Six.
* Added temporary building automation system panel and associated conduit on side wall of barn.
* Added two conduits for building automation system between Kudu Barn and Hornbill Shed, run above the Hornbill Yard’s chain link “ceiling”.

**KE-501DT**

* Changed note for stall lighting control station to reflect changes to Hornbill Stalls lighting controls.
* Added detail showing data stub-up at Yard Six fence.
* Added elevation of side wall showing temporary building automation system panel.

**KE-601DG ELECTRICAL DIAGRAMS**

* Changed power riser diagram to reflect elimination of Panel NB4 and addition of “existing” Panel RP.
* Modified stall lighting control diagram to indicate that the “Type B3 Luminiare” consists of two 2’ luminaires, not one 4’ luminaire.
* The time switch for lighting control is no longer a bid option but is base bid.
* Added reference to data stub-up detail to diagram for barn data and security.
* Added reference to Hornbill Shed lighting controls.
* Modified various risers to indicate Kudu Contractor to provide portions of telecom bonding backbone conductor and various conduits part way from Kudu Barn towards Cheetah Conservation Station.
* Showed temporary power for Panel SBB4 and emergency loads to be provided until permanent standby and emergency power from Cheetah Conservation Station is available at the Kudu Barn.

**KE-603SH ELECTRICAL DIAGRAMS**

* Eliminated schedule for Panel NB4.
* Added schedule for “existing” Panel RP.
* Eliminated superfluous luminaires from luminaire schedule.
* Indicated on schedule that the “Type B3 Luminiare” consists of two 2’ luminaires, not one 4’ luminaire.

**KF-101FA KUDU BARN - FIRE ALARM**

* Adjusted background on all plans to show updated wall between Kudu Stall J2A and Kudu Stall J2B.
* Added symbols list.

**New / edited spec sections:**

* Added 055000\_Metal Fabrications (updated TOC spec number)
* Added 055964\_Metal Welded Mesh Enclosures (updated TOC spec number)
* Added 066000\_Plastic Lumber-Animal (updated TOC spec number)
* Removed 081416\_Flush Wood Doors (added for ASI 003, removed for ASI 005)
* Added 08 9119 Fixed Louvers
* Added 08 1743 Fiberglass Doors & Frames
* Added 08 7111 Door Hardware Descriptive
* Added 08 8000 Glazing
* Added 09 9123 Interior Painting
* Added 09 9611 High Performance Coatings (Proprietary Misc Metals)
* **Edited 22 0500 Common Work Results for Plumbing (edits for ASI 003)** 
  + Added 1.3.B.6 & 1.3.B.7 under References
  + Added 2.2.B under Piping Materials
  + Added 2.3 Materials for Underfloor Installation
* Added 22 0502 Sleeves and Plates for Plumbing Piping
* Added 22 0501 Excavation and Fill for Plumbing Work
* Added 22 0529 Hangers and Supports for Plumbing Piping and Equipment
* Added 22 0700 Plumbing Insulation
* Added 22 1316 Sanitary Waste and Vent Piping
* Added 22 1413 Storm Drainage Piping
* Added 22 1423 Storm Drainage Piping Specialties
* Added 23 0504 HVAC Demolition
* Added 23 0513 Common Motor Requirements for HVAC Equipment
* Added 23 0593 Testing, Adjusting, & Balancing
* Added 23 3113 Metal Ducts
* Added 23 3300 Duct Accessories
* Added 23 8239 Unit Heaters
* Added 26 2800 Enclosed Circuit Protective Devices
* Added 26 2813 Fuses
* **Added 28 3111 Addressable Fire Alarm System (added for ASI 003)**
  + Added reuse of existing heat detectors

**Attachments:**

**Drawings dated 11/3/23**

**Specifications dated 11/3/23**

copies to: **Joseph Superak**