

## **Capital Project Information Summary – Agriculture Programs Relocation, Phase I**

### **BUILDINGS AND GROUNDS COMMITTEE**

**September 9, 2013**

**Title of Project:**

Agriculture Programs Relocation, Phase I Dairy Relocation

**Location:**

The replacement Dairy Science facilities are to be constructed on a newly fenced 35-acre agricultural complex on the 1,700-acre Kentland Farm in Montgomery County.

**Current Project Status and Schedule:**

The project is in the schematic design phase. Subsequent design phases are expected to continue through November 2013.

**Project Description:**

The project includes the one-to-one replacement of the existing Dairy Science program facilities currently located south of Southgate Drive on the central campus, which are slated for demolition to facilitate extension of the airport runway and relocation of the Southgate Drive/Route 460 interchange. The replacement Dairy Science facilities are to be constructed at a new 35-acre agricultural complex on the 1,700-acre Kentland Farm in Montgomery County. Kentland Farm was selected as the new site to take advantage of the proximity to feed production, grazing lands and manure application. The new complex will include five major buildings, totaling over 77,000 gross square feet (GSF), housing the approximately 230 cow milking herd. The dairy operation will be supported by six additional major structures, including feed storage facilities (totaling over 39,000 GSF) and manure management facilities.

**Brief Program Description:**

As an operational dairy, the cows will be milked using a double-12 automatic milking system located in the 11,900 GSF Parlor Barn. A 1,300 GSF administrative office suite wing will extend from the Parlor Barn. Scheduled feeding will occur in the 46,400 GSF Housing Barn. The complex will also include an 8,700 GSF Special Needs Barn, a 3,800 GSF Calf Barn and a 5,000 GSF Maintenance Facility. State of the art manure management will include a hydraulic flushing system and, within buildings, a wave flush cleaning system.

**Contextual Issues and Design Intent:**

The new buildings will be a combination of pre-engineered steel buildings and pole barns designed in traditional farm vernacular style. Primary exterior materials will include sloping standing seam metal roofs with gable ends, painted masonry block walls, and pre-finished vertical metal siding.

**Architect/Engineer:**

Thompson and Litton

**Construction Manager:**

English Construction

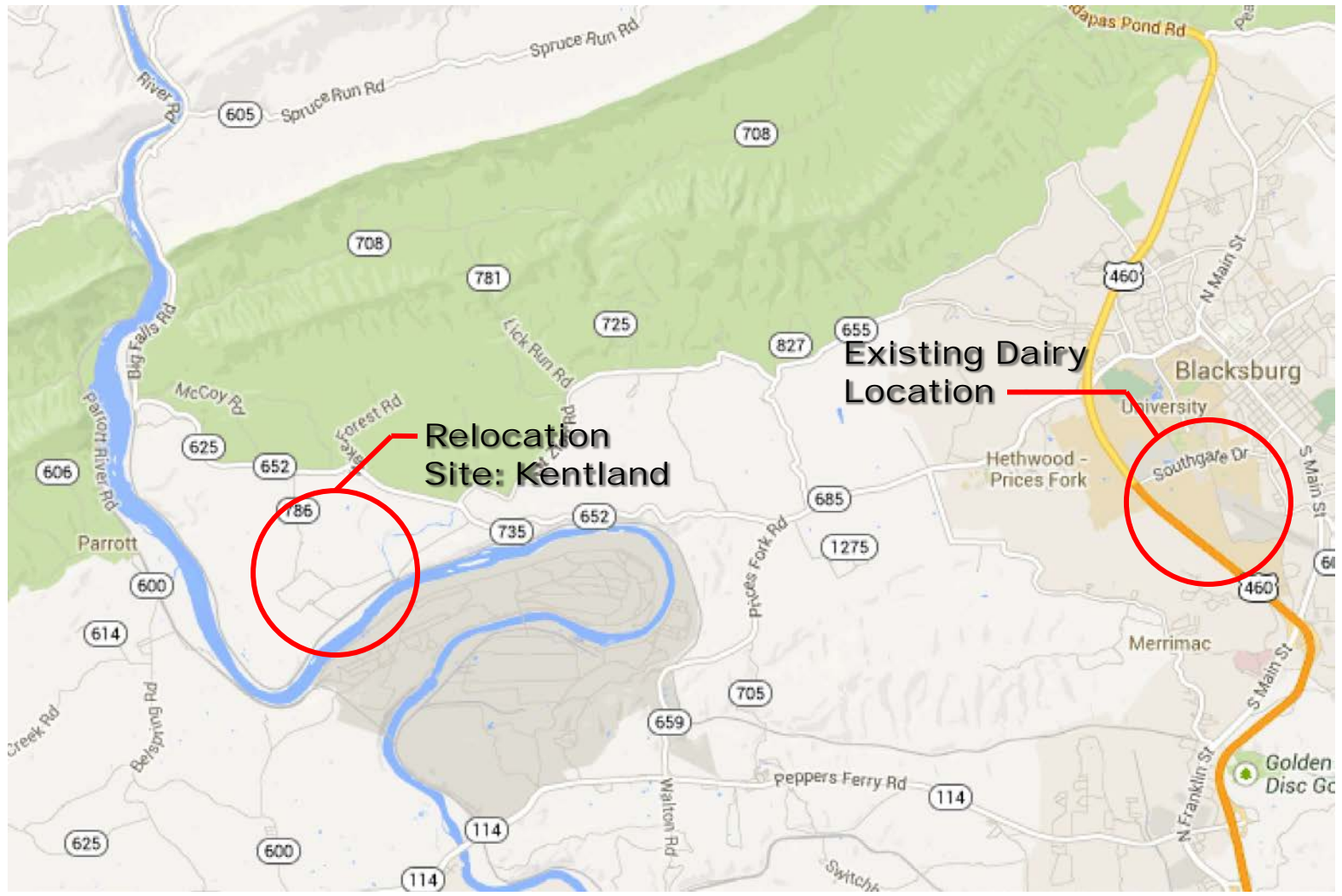


*Design Preview:*

# Agriculture Programs Relocation

## Phase I: Dairy Program

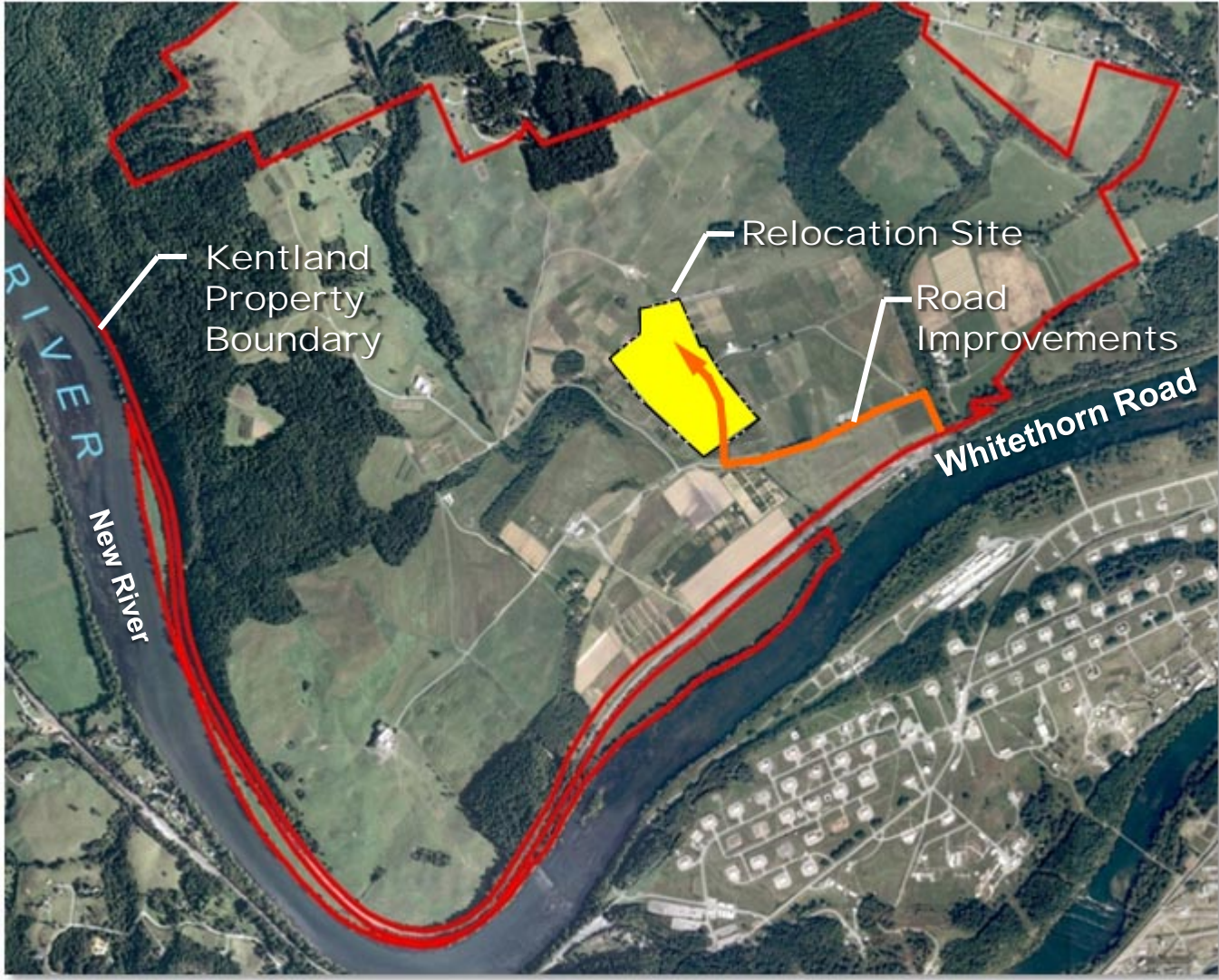
# Existing Dairy: Main Campus



## KENTLAND PHASE I: DAIRY PROGRAM



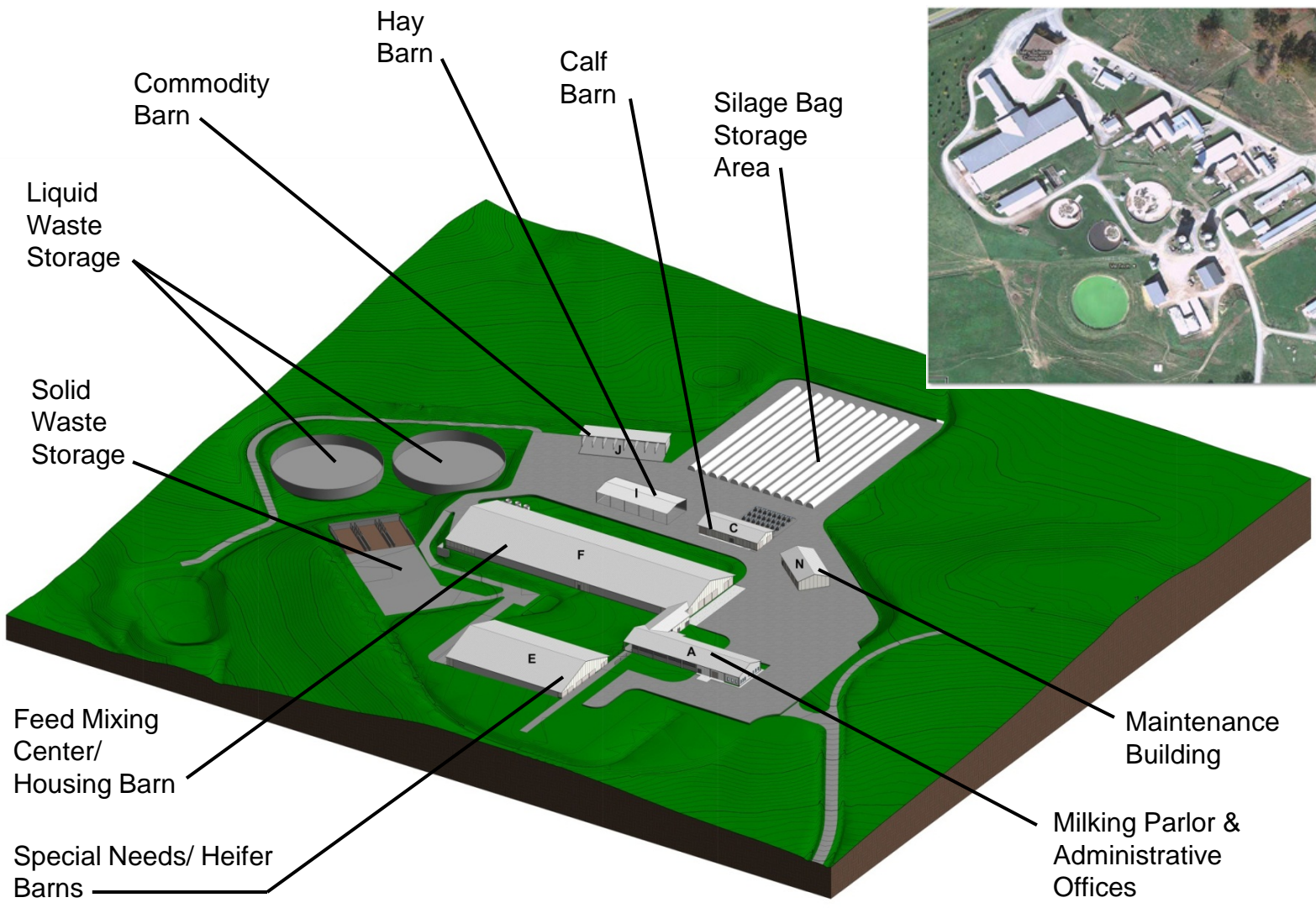
# Kentland Farm: Property Boundary



Aerial – Kentland Farm  
Montgomery County

## KENTLAND PHASE I: DAIRY PROGRAM

# Kentland Farm: Primary Structures

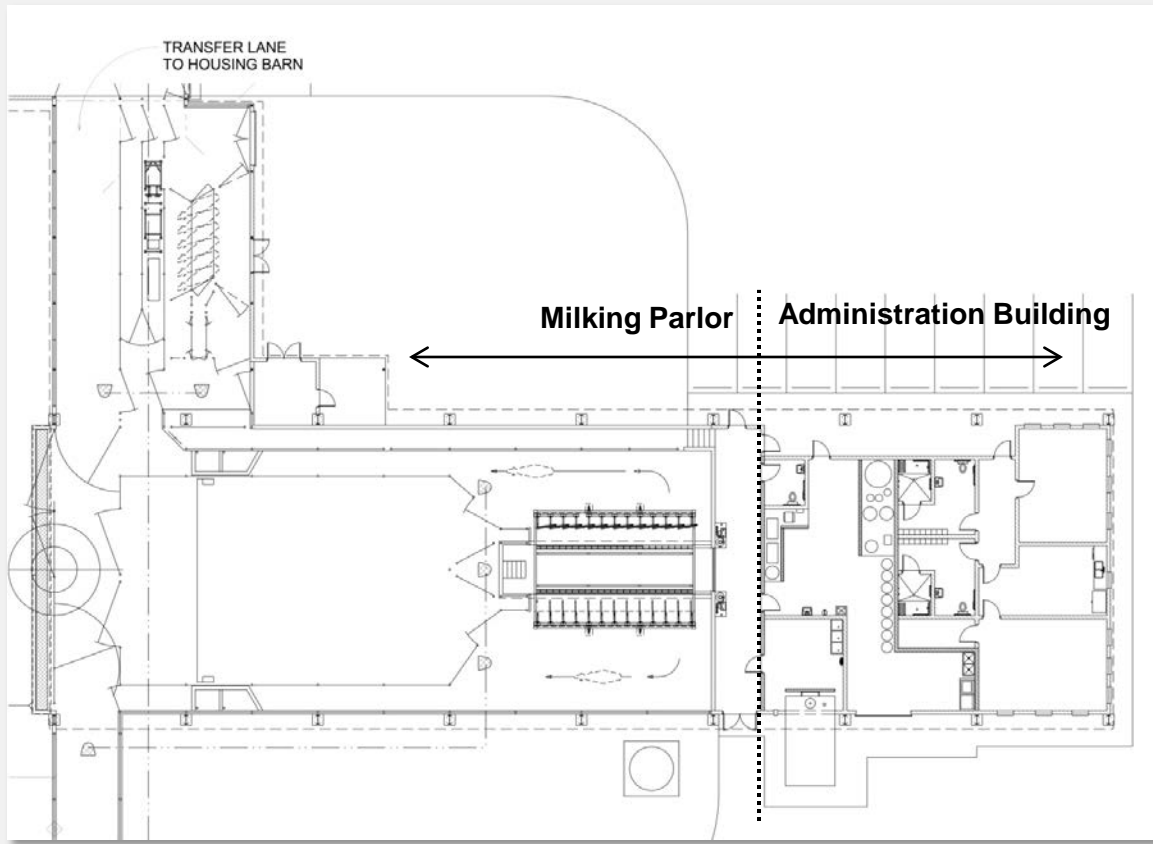
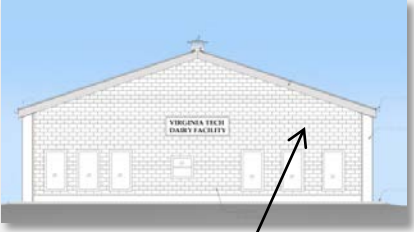
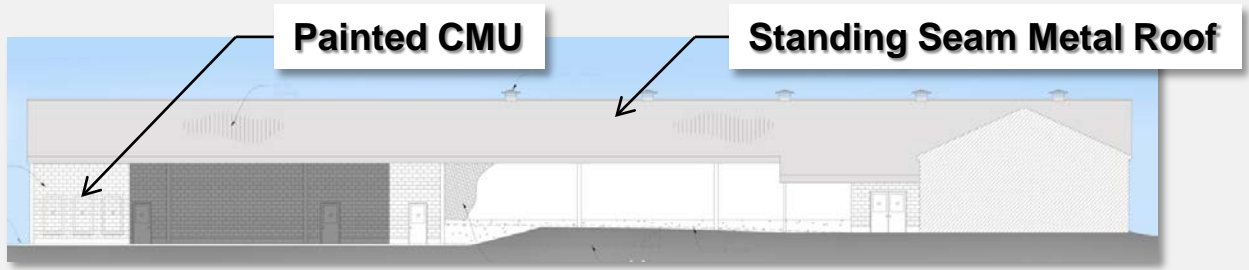


**New facilities demonstrate more efficient land use than existing facilities**

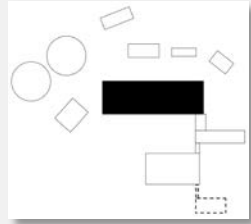
## KENTLAND PHASE I: DAIRY PROGRAM



# Administration Building & Milking Parlor

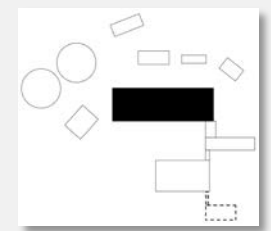
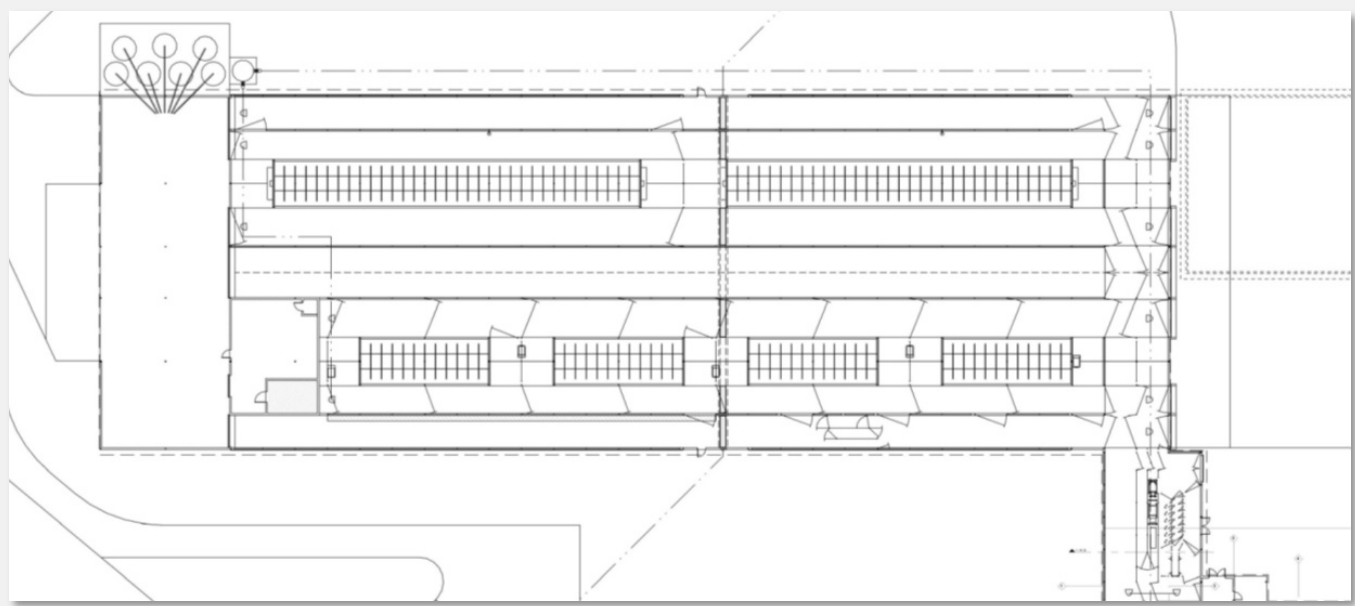
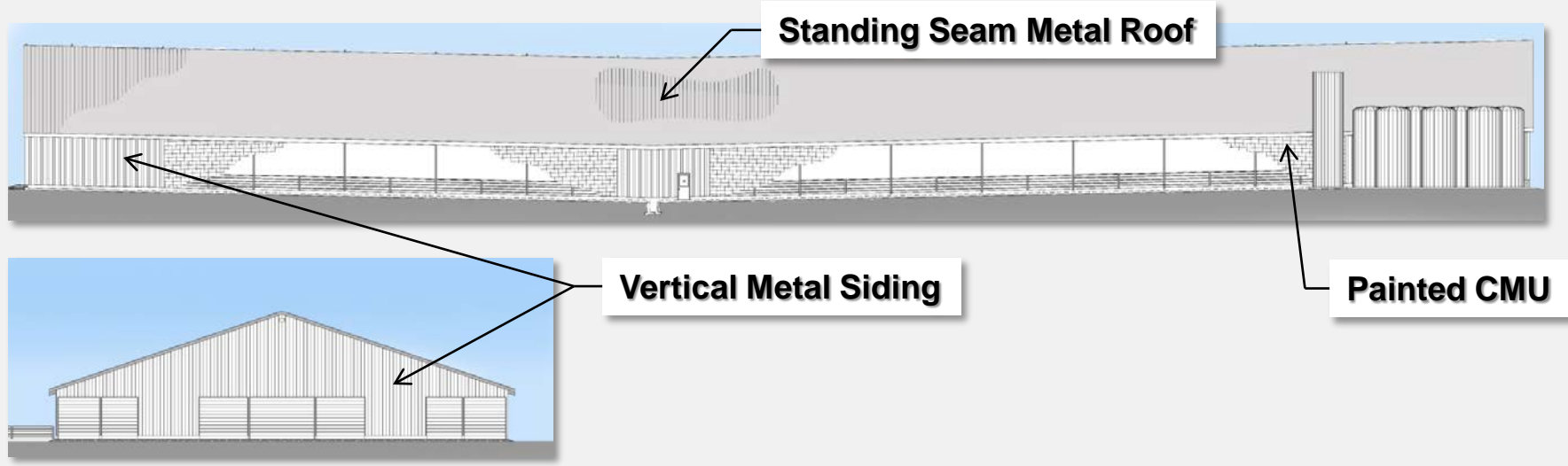


Painted CMU



## KENTLAND PHASE I: DAIRY PROGRAM

# Housing Barn



## KENTLAND PHASE I: DAIRY PROGRAM

# Additional Barn Facilities



**Standing Seam Metal Roofing**

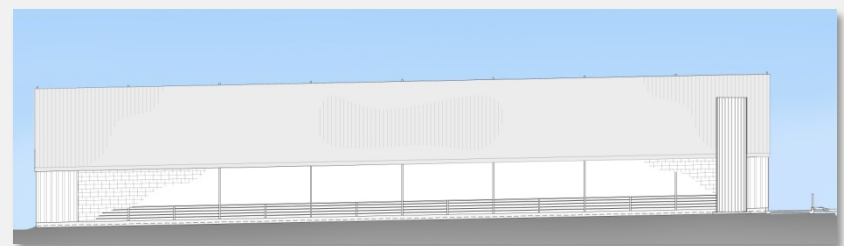
**Calf Barn**



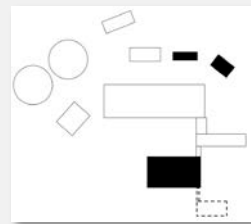
**Vertical Metal Siding**

**Coiling Overhead Doors**

**Maintenance Building**



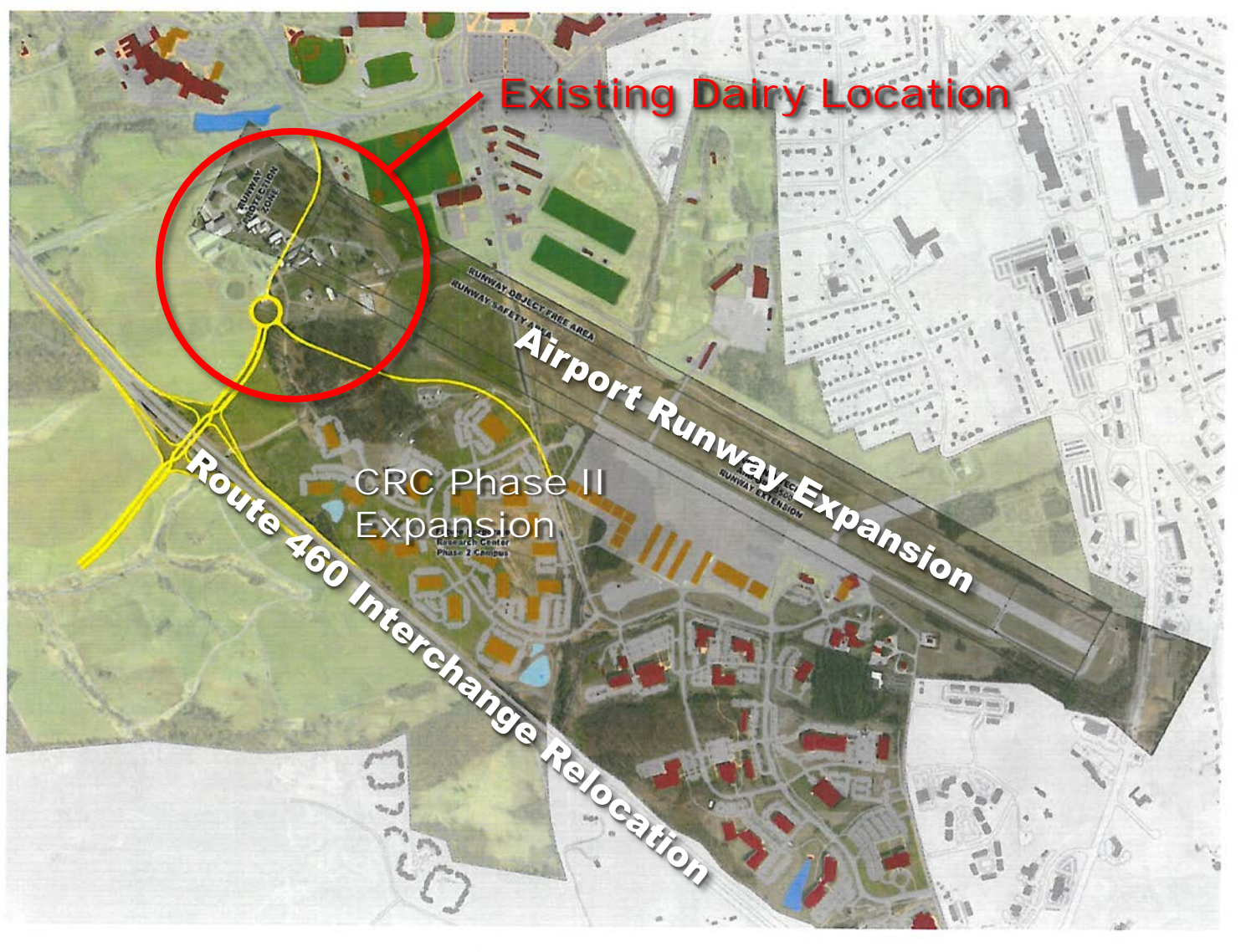
**Special Needs/ Heifer Barn**







# Imminent Development: Main Campus



## KENTLAND PHASE I: DAIRY PROGRAM