

MAQUOKETA



GREEN SPACE REDEVELOPMENT

IOWA

Civil and Environmental
Engineering



Design Team

3J^A ENGINEERING



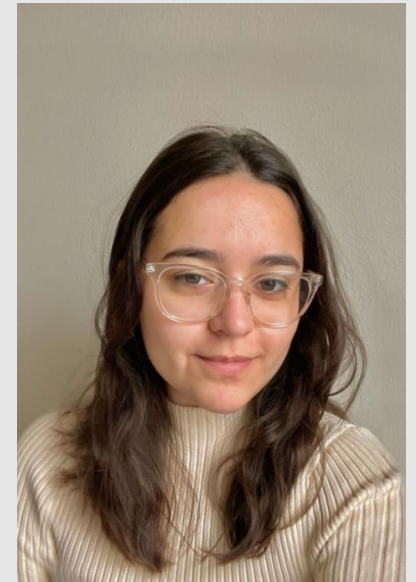
Jamie Trentz
Project Manager



Jackson Stephens



Jacob Murphy



Amanda Guerra

Presentation Outline



**Project
Description**



**Design
Decisions**



**Cost
Estimation**



Site Visit



Project Description

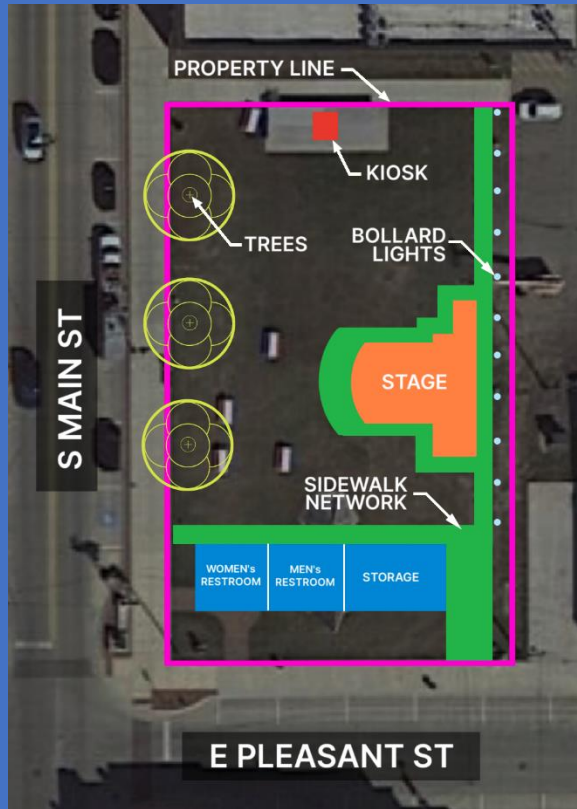


Current State:

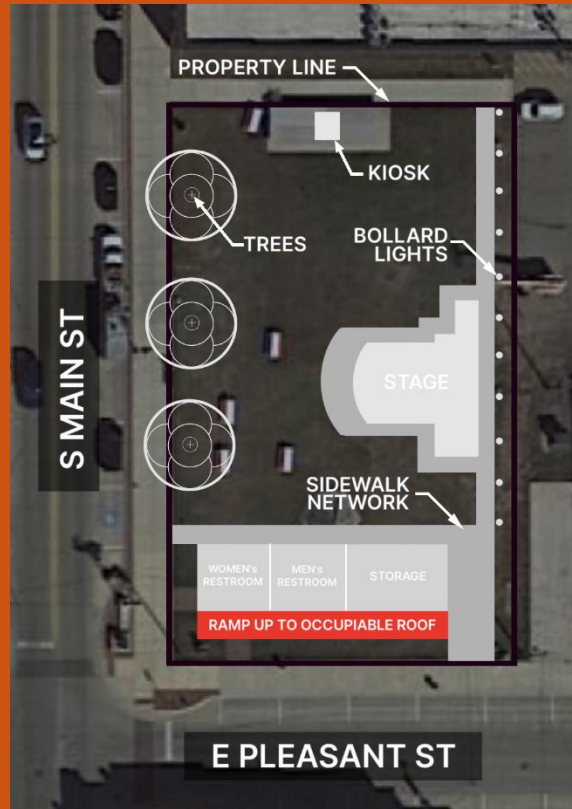


Design & Analysis

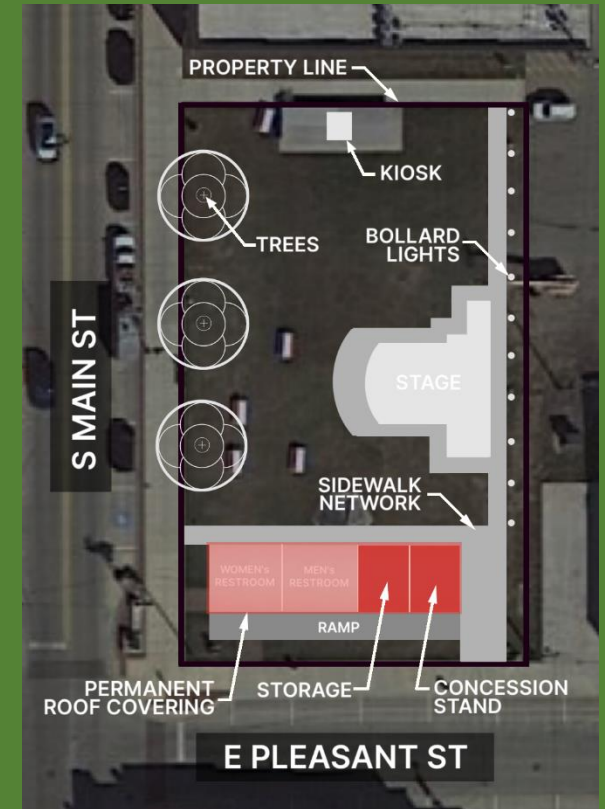
PHASE ONE



PHASE TWO



PHASE THREE



PHASE ONE:



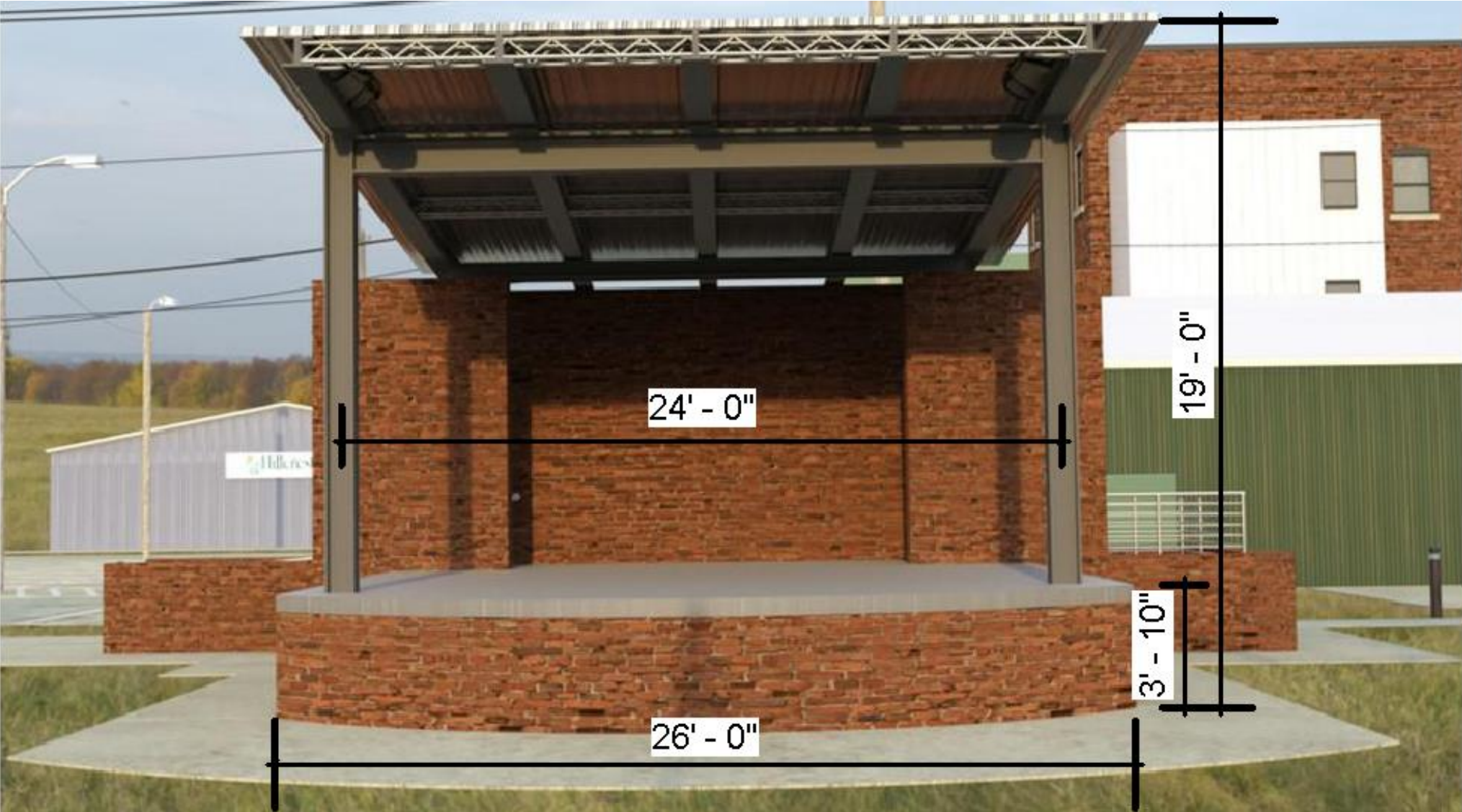
PHASE ONE: Site Design



PHASE ONE: Stage Design



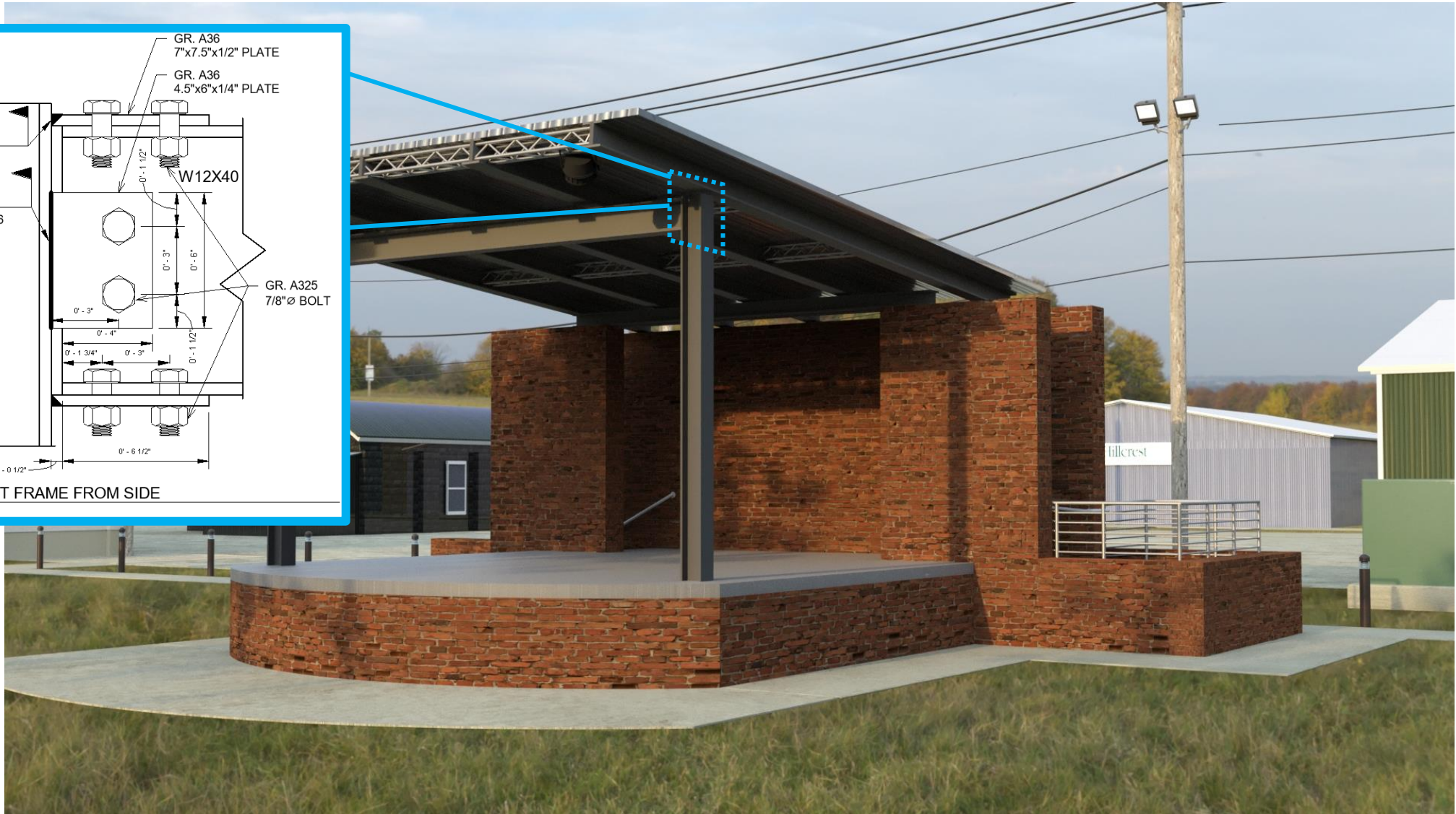
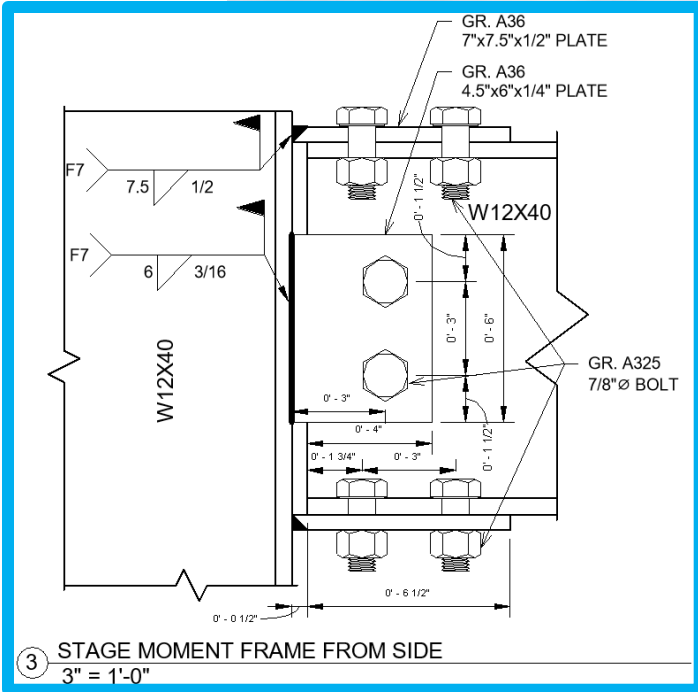
PHASE ONE: Stage Dimensions



PHASE ONE: Stage Dimensions



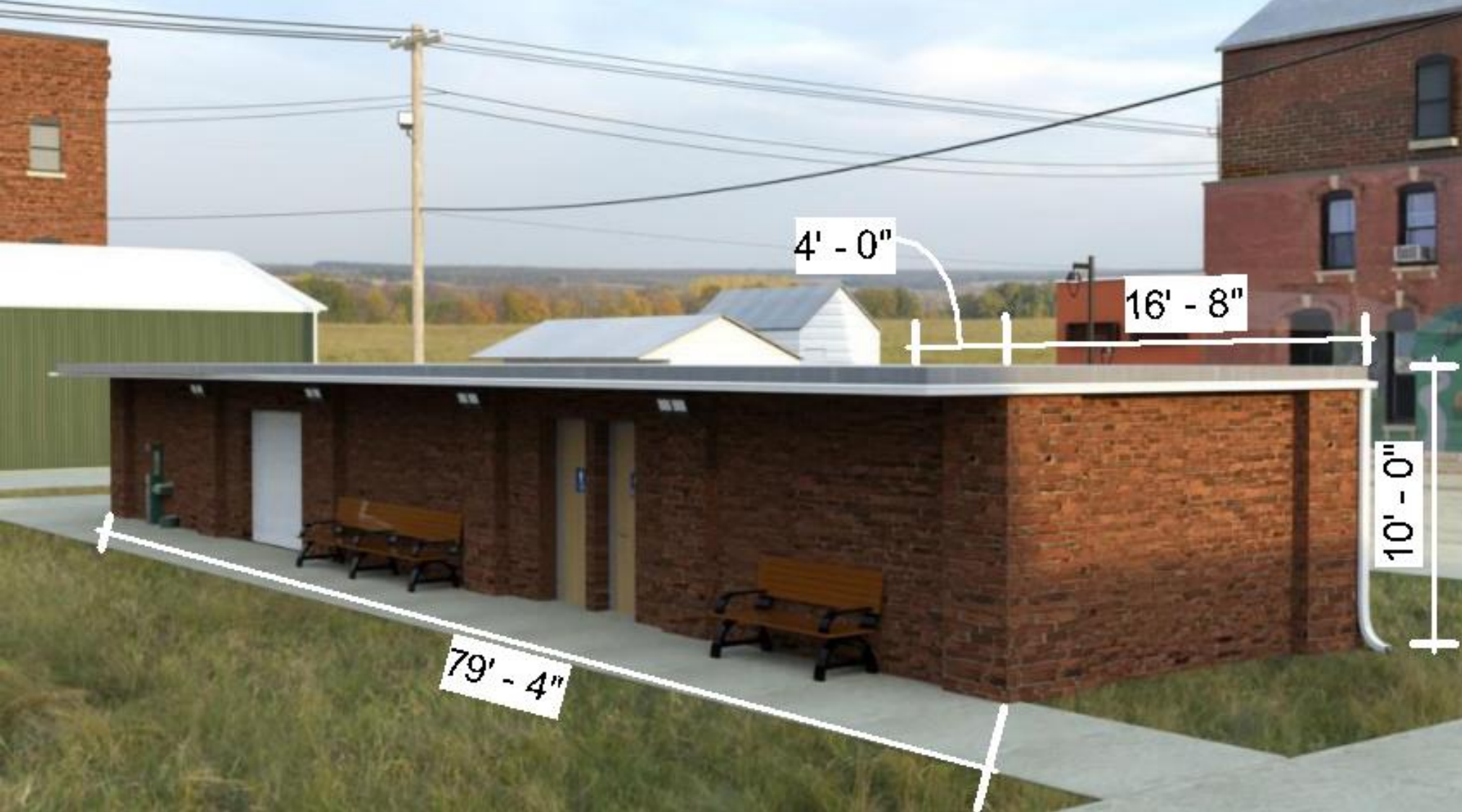
PHASE ONE: Stage Design Details



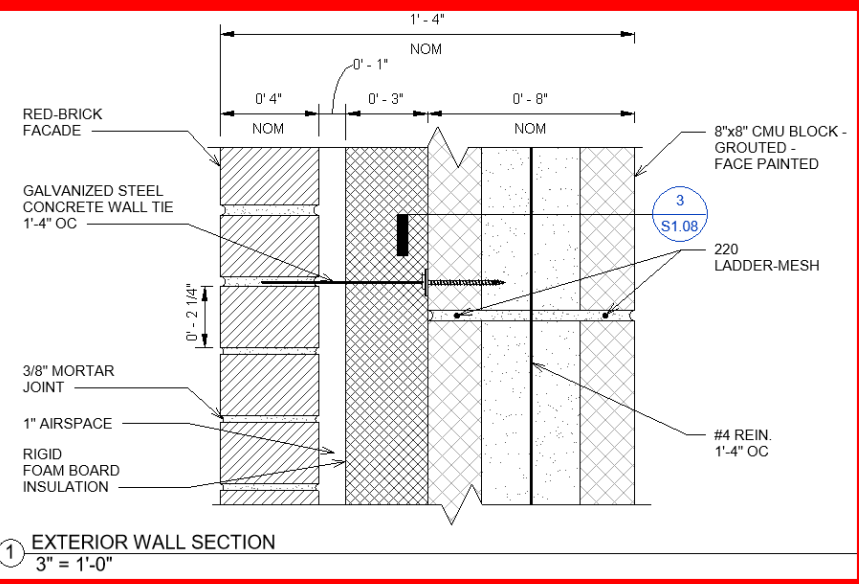
PHASE ONE: Restroom Design



PHASE ONE: Restroom Dimensions



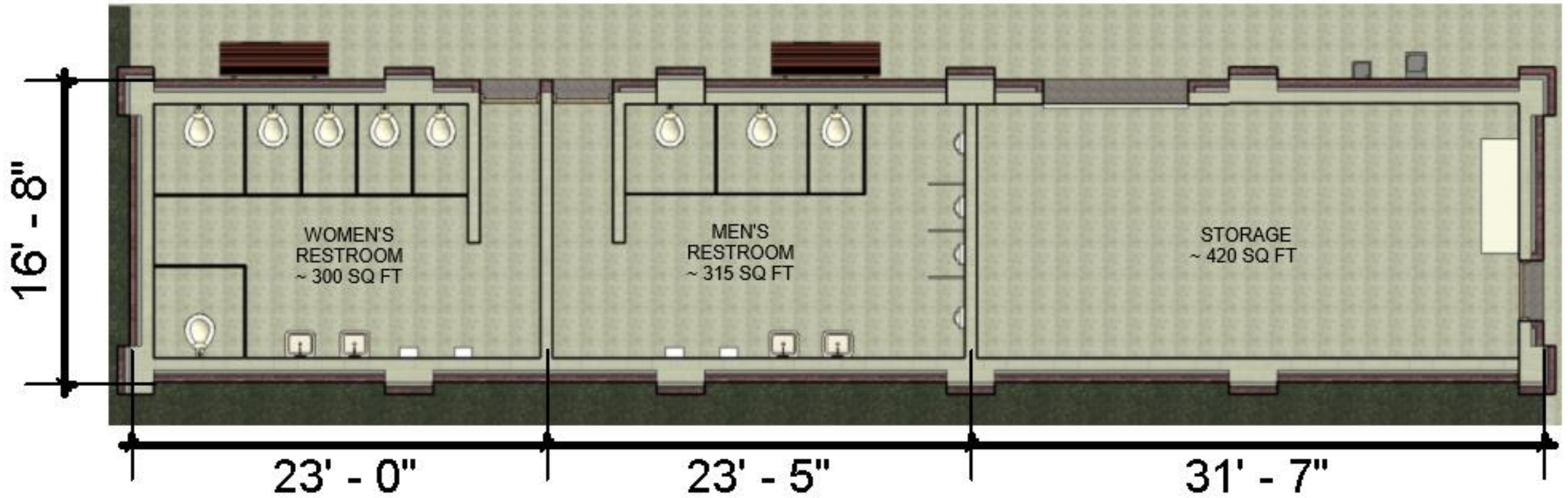
PHASE ONE: Restroom Design Details



PHASE ONE: Restroom Design Details



PHASE ONE: Restroom Plan



PHASE TWO:



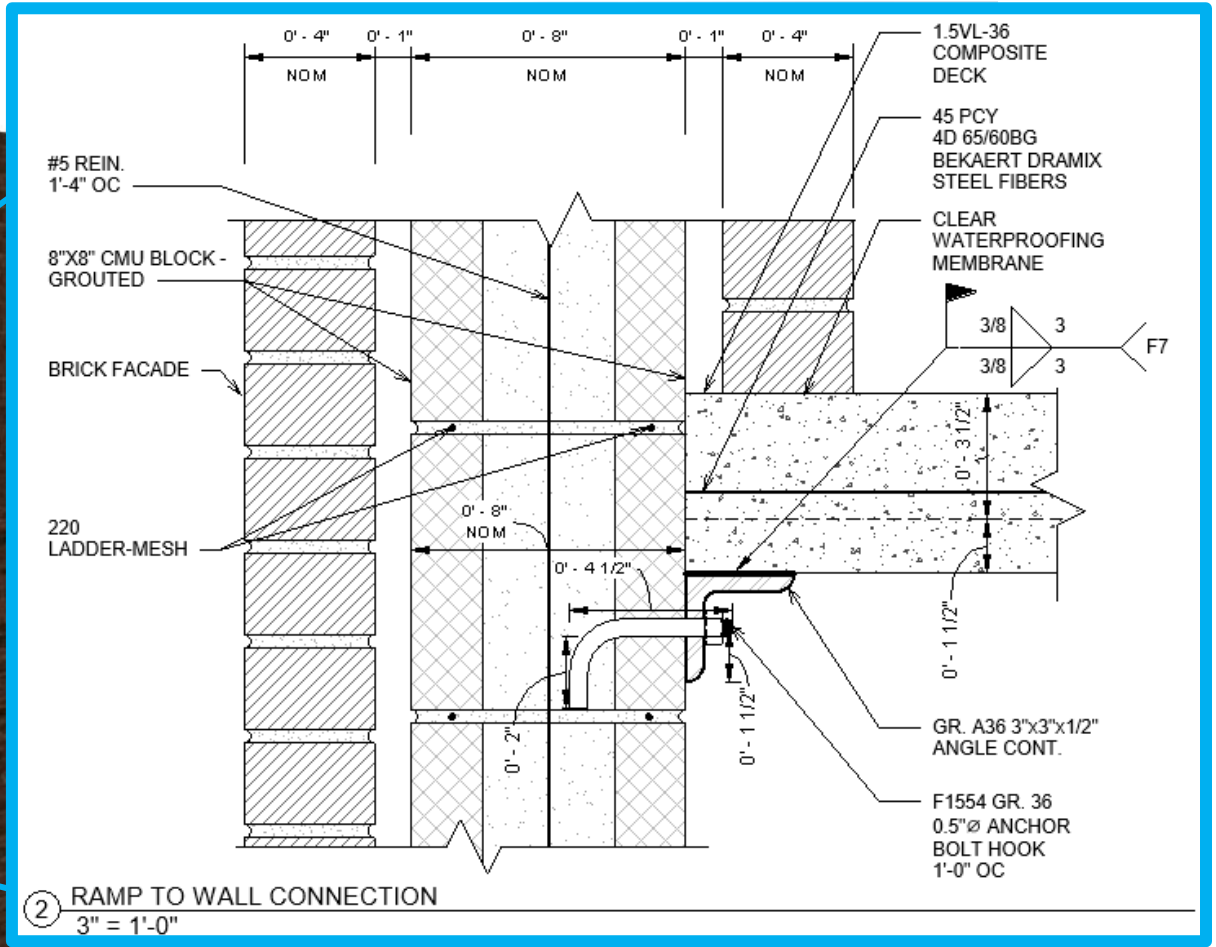
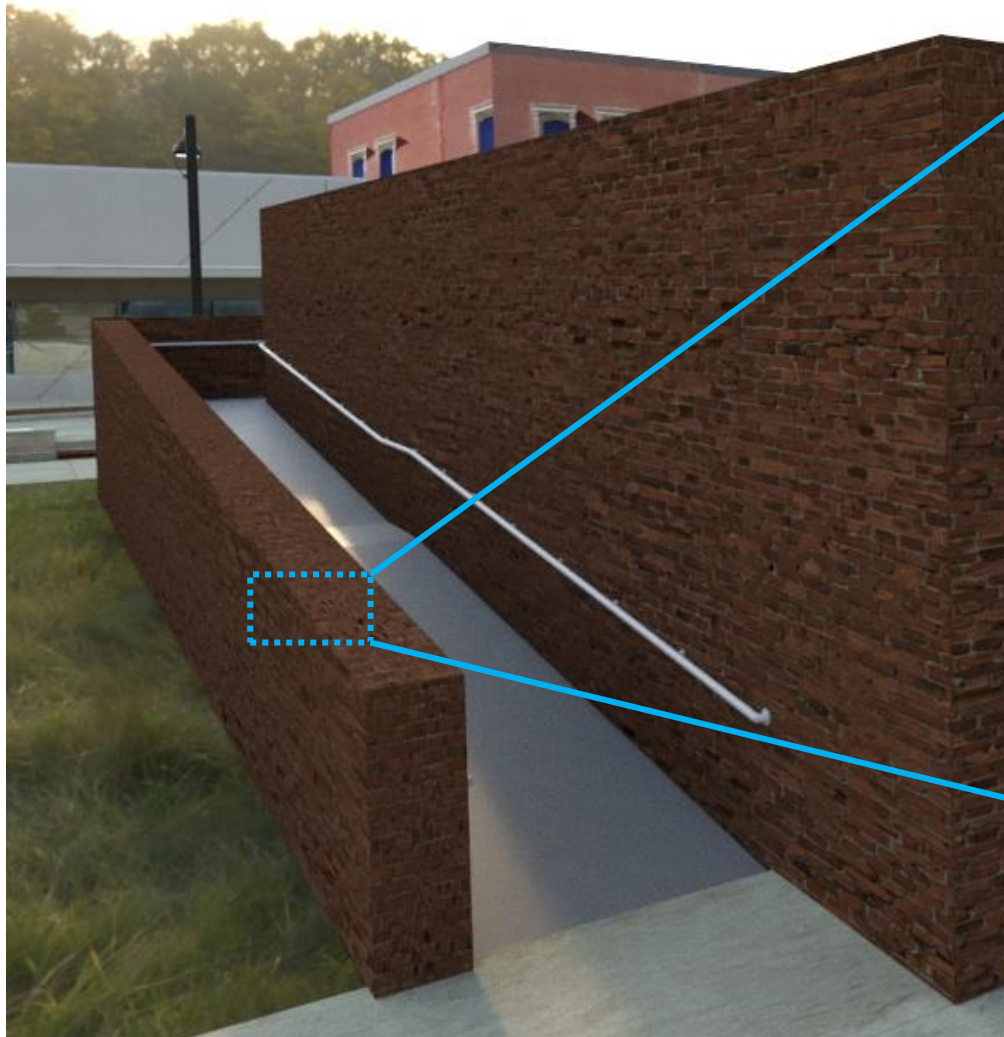
PHASE TWO: Ramp & Occupiable Roof Dimensions



PHASE TWO: Ramp & Occupiable Roof Design



PHASE TWO: Ramp & Occupiable Roof Design Details



PHASE THREE:



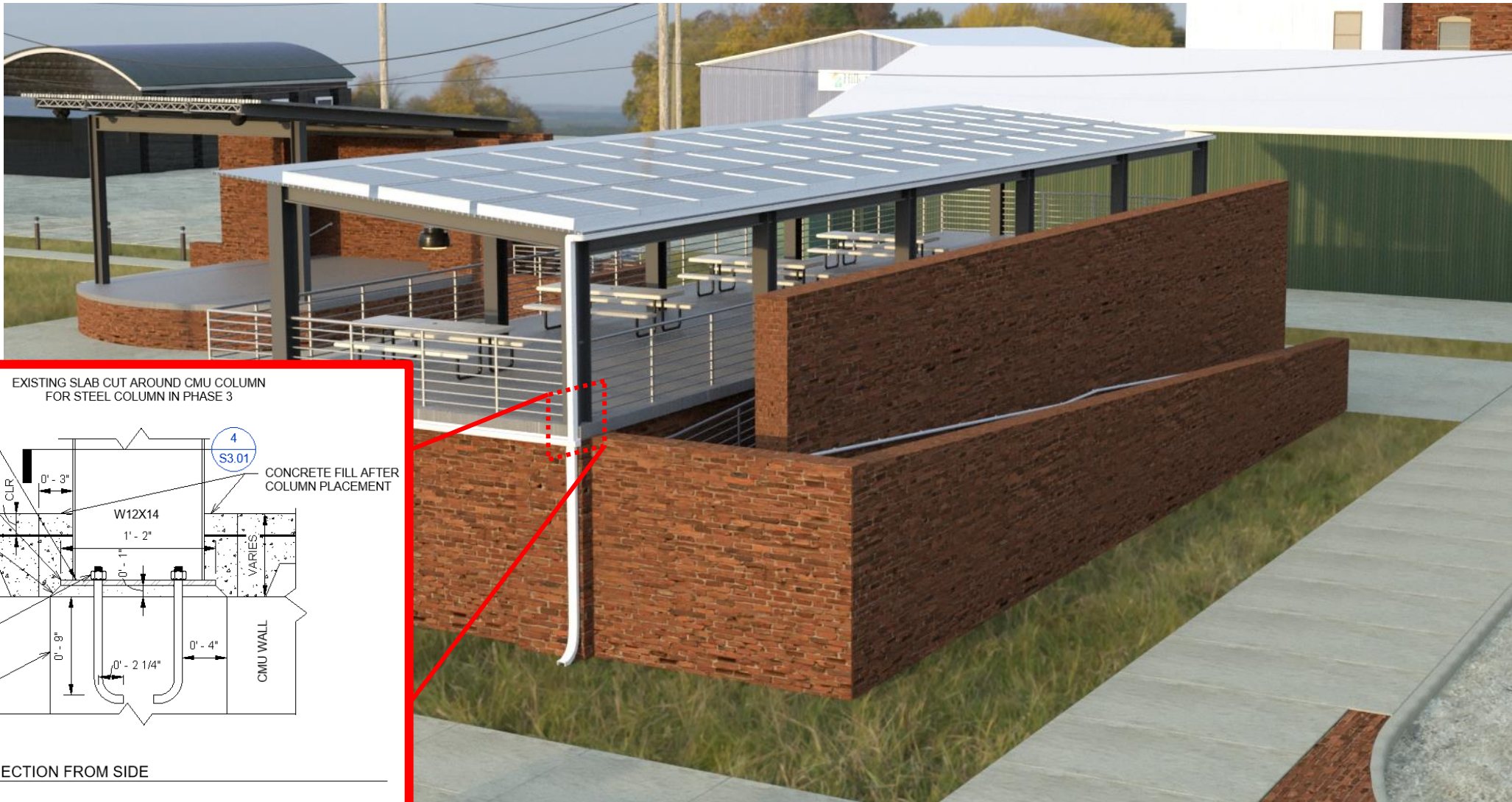
PHASE THREE: Permanent Roof Design



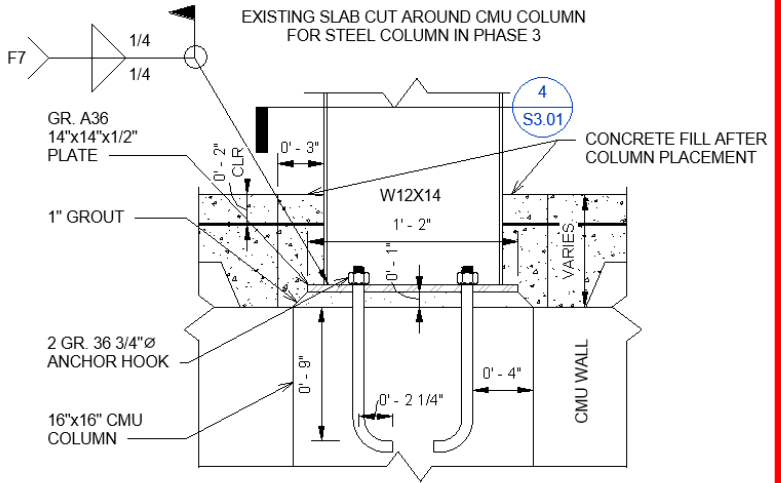
PHASE THREE: Permanent Roof Dimensions



PHASE THREE: Permanent Roof Design Details



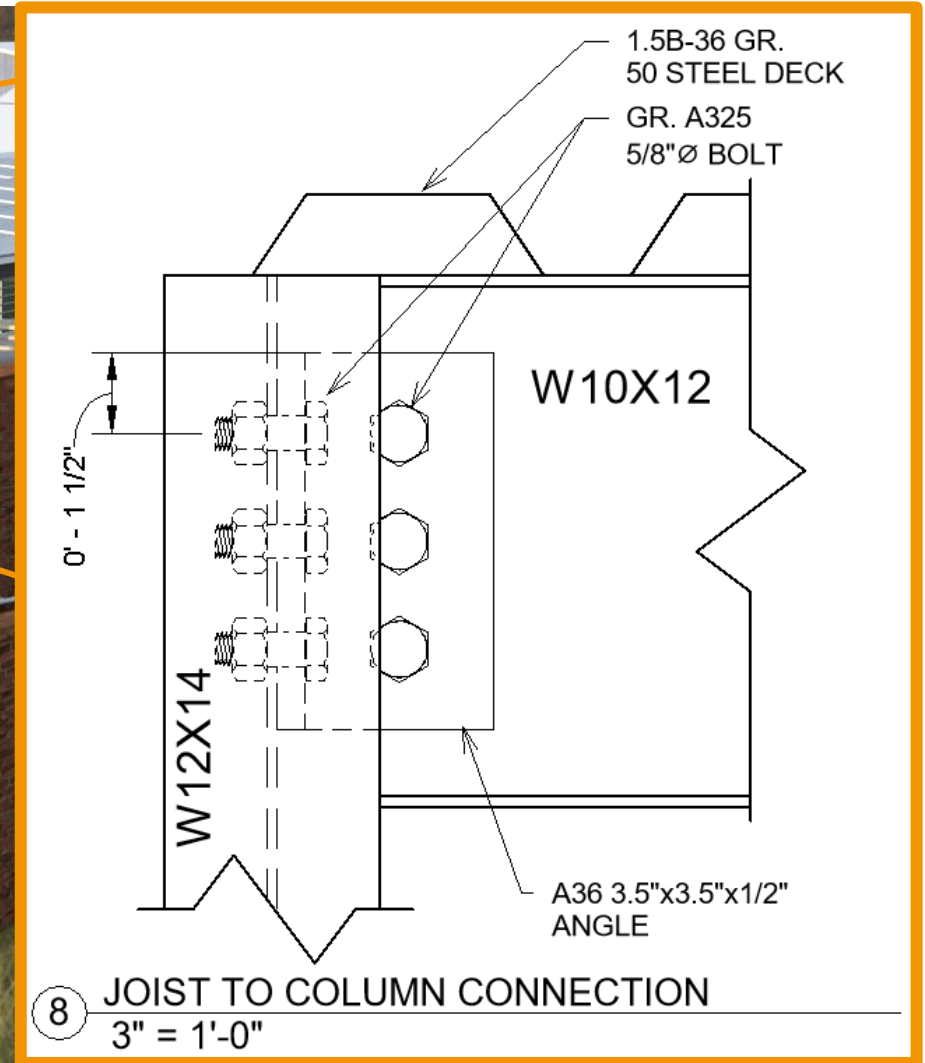
EXISTING SLAB CUT AROUND CMU COLUMN FOR STEEL COLUMN IN PHASE 3



7 COLUMN CONNECTION FROM SIDE
1 1/2" = 1'-0"



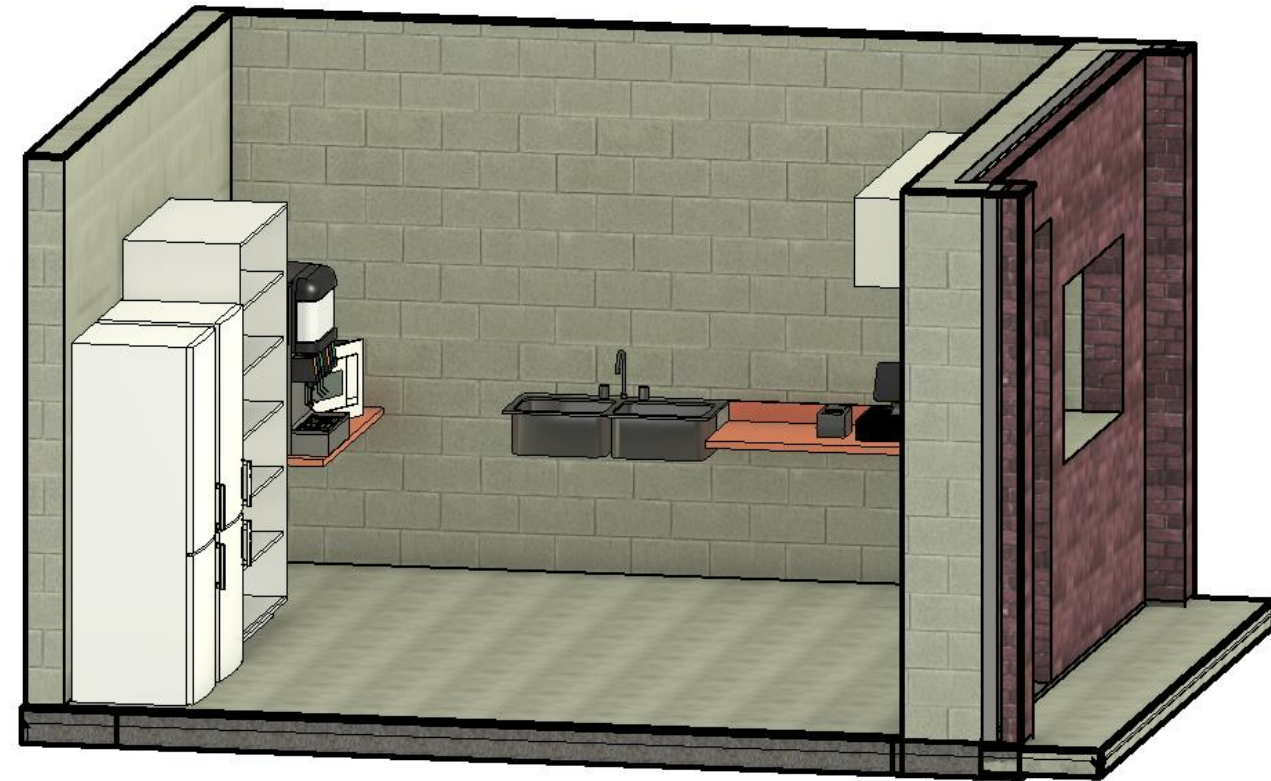
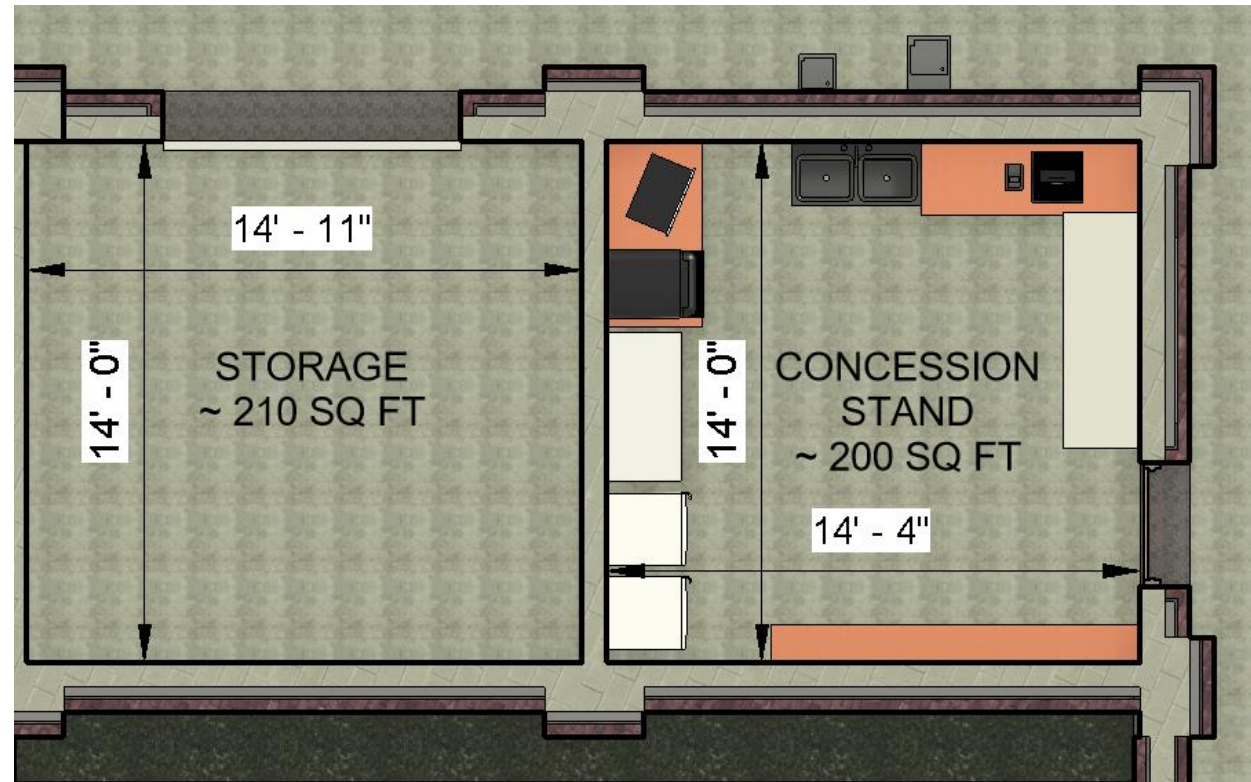
PHASE THREE: Permanent Roof Design Details



PHASE THREE: View from Roof



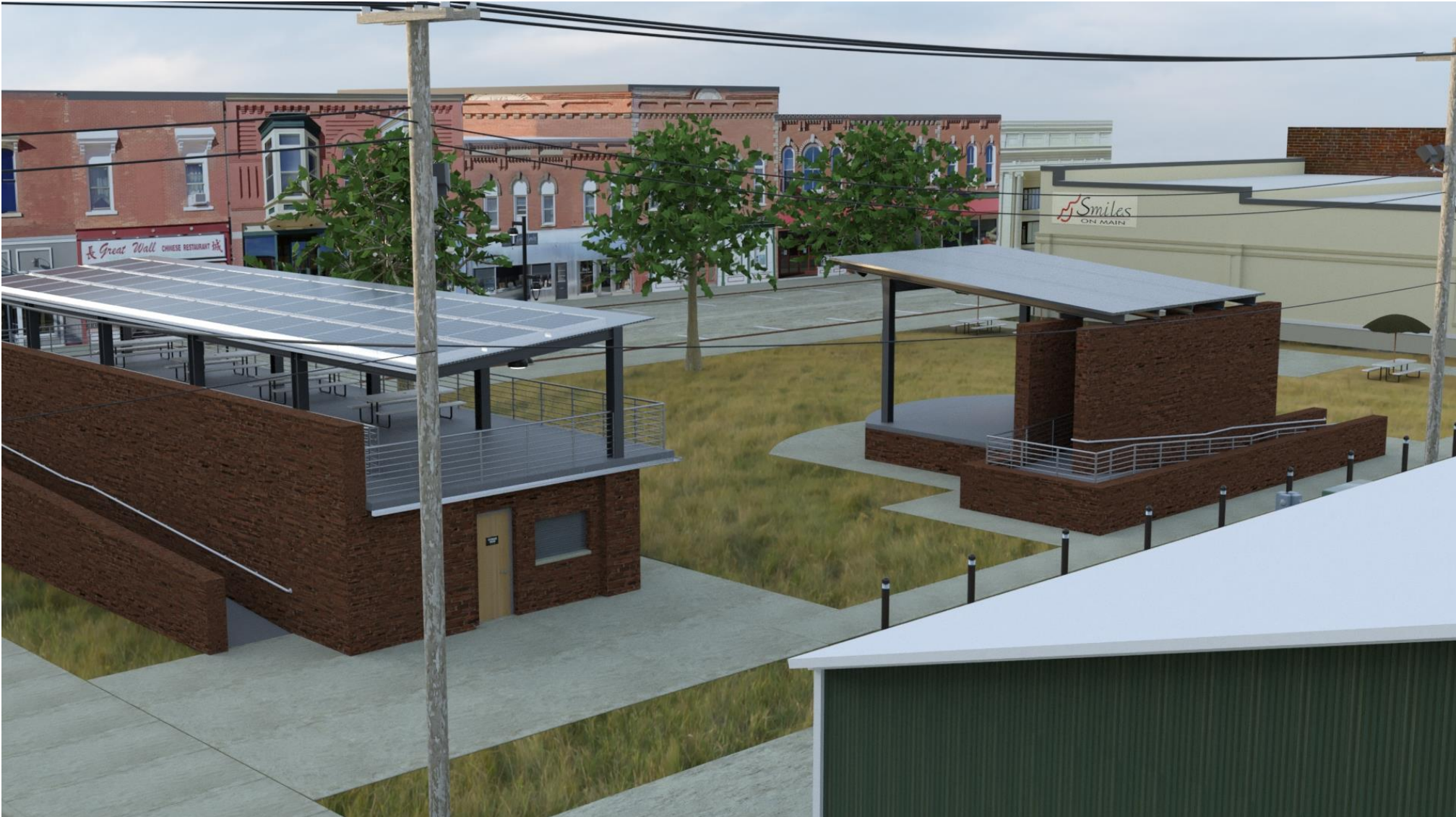
PHASE THREE: Concession Design



PHASE THREE: Concession Stand Rendering



PHASE THREE: View From Southeast Corner



A blurred nighttime photograph of an outdoor setting. In the center, there is a structure with pink and blue lighting. To the right, a building with warm interior lights is visible through the trees. The overall scene is dark and out of focus.

Nighttime Renders







Cost Estimation: Phase One



Stage

Materials:	\$77,800
Labor:	\$106,000
10% Contingency:	\$18,400
20% O & P:	\$36,800

Stage Total:

\$239,000

Restroom Phase One

Materials:	\$154,300
Labor:	\$162,400
10% Contingency:	\$31,600
20% O & P:	\$63,200

Restroom Phase One Total:

\$411,500

Site Design

Materials:	\$69,100
Labor:	\$26,100
10% Contingency:	\$9,600
20% O & P:	\$19,200

Site Design Total:

\$124,000

Cost Estimation: Phase Two & Three



Restroom Phase Two

Materials:	\$83,600
Labor:	\$128,000
10% Contingency:	\$23,800
20% O & P:	\$47,600

Restroom Phase Two Total:

\$276,000

Restroom Phase Three

Materials:	\$59,200
Labor:	\$20,000
10% Contingency:	\$8,000
20% O & P:	\$15,900

Restroom Phase Three Total:

\$103,000

Cost Estimation: Total per Phase



Phase One

Site Design: **\$124,000**

Stage Design: **\$239,000**

Restroom Design: **\$411,500**

Phase One Total:

\$744,500

Phase Two

Restroom Design Additions:

\$276,000

Phase One & Two Total:

\$1,019,000

Phase Three

Restroom Design Additions:

\$103,000

Phase One, Two & Three Total:

\$1,107,000

