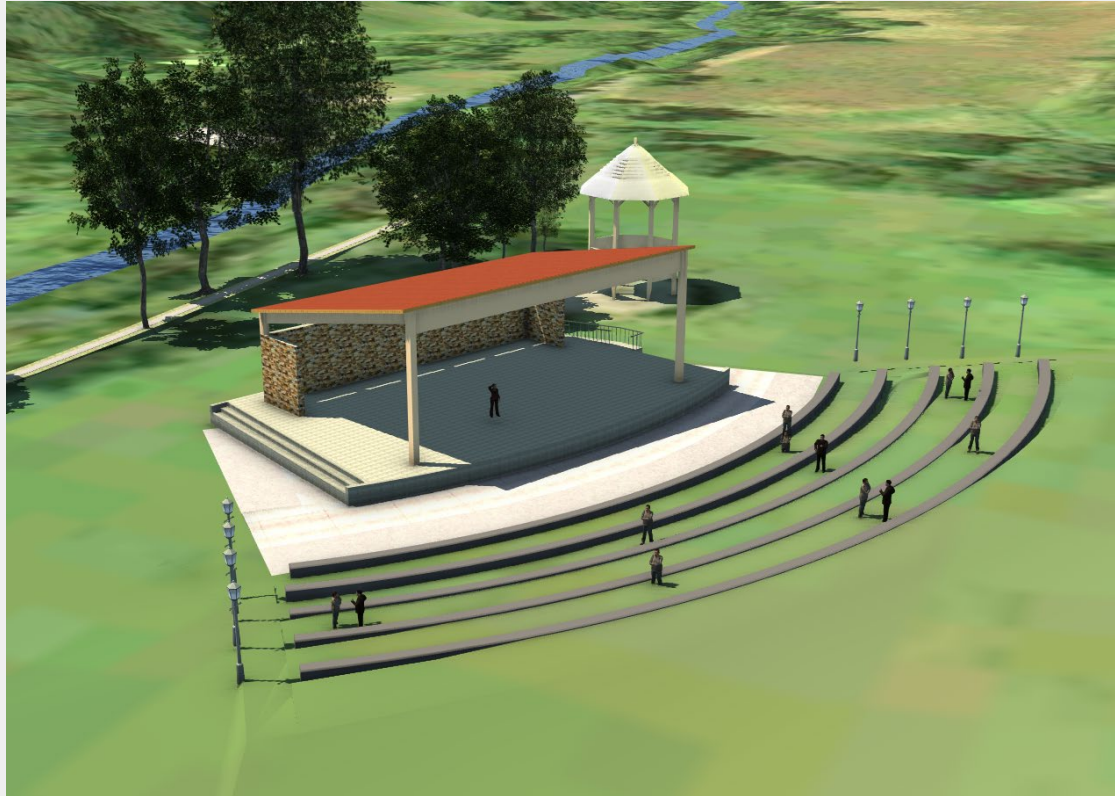


Webster City Amphitheater Design



Presentation Outline



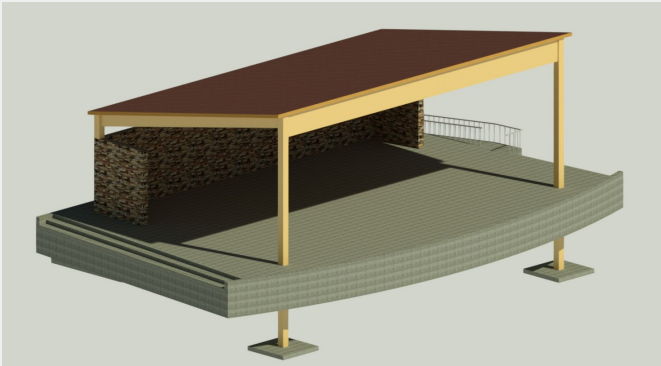
Location

Scope

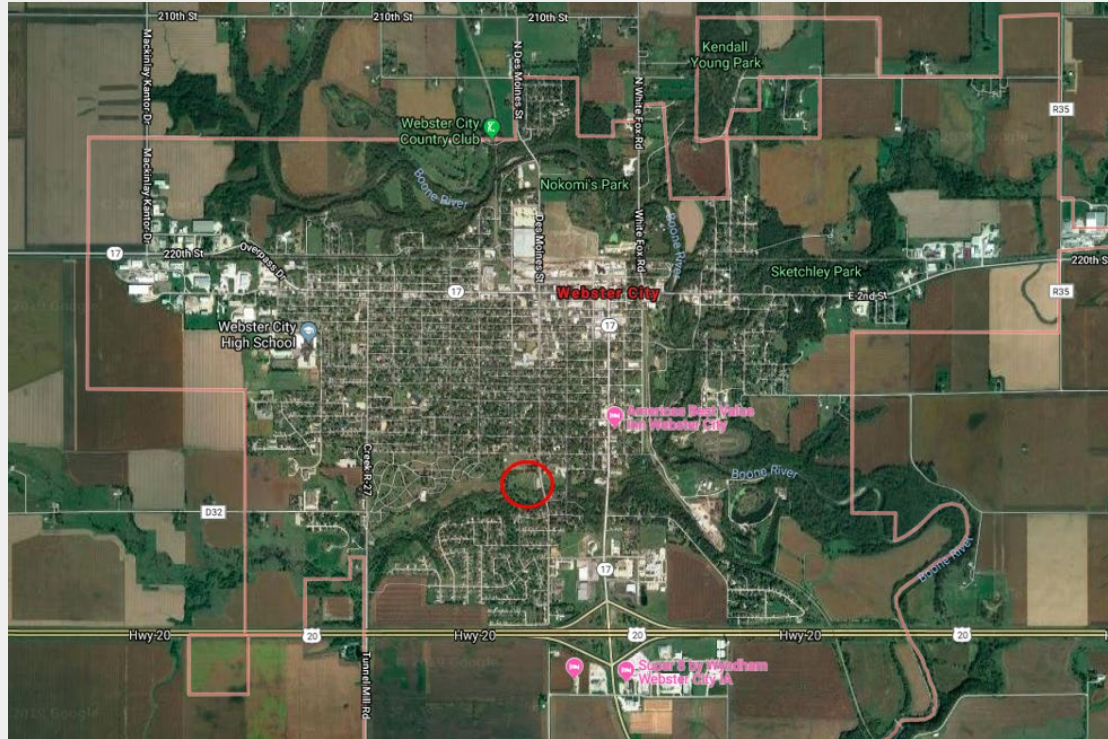
Site Design and Layout

Structural Design

Cost Estimates and
Recommendations



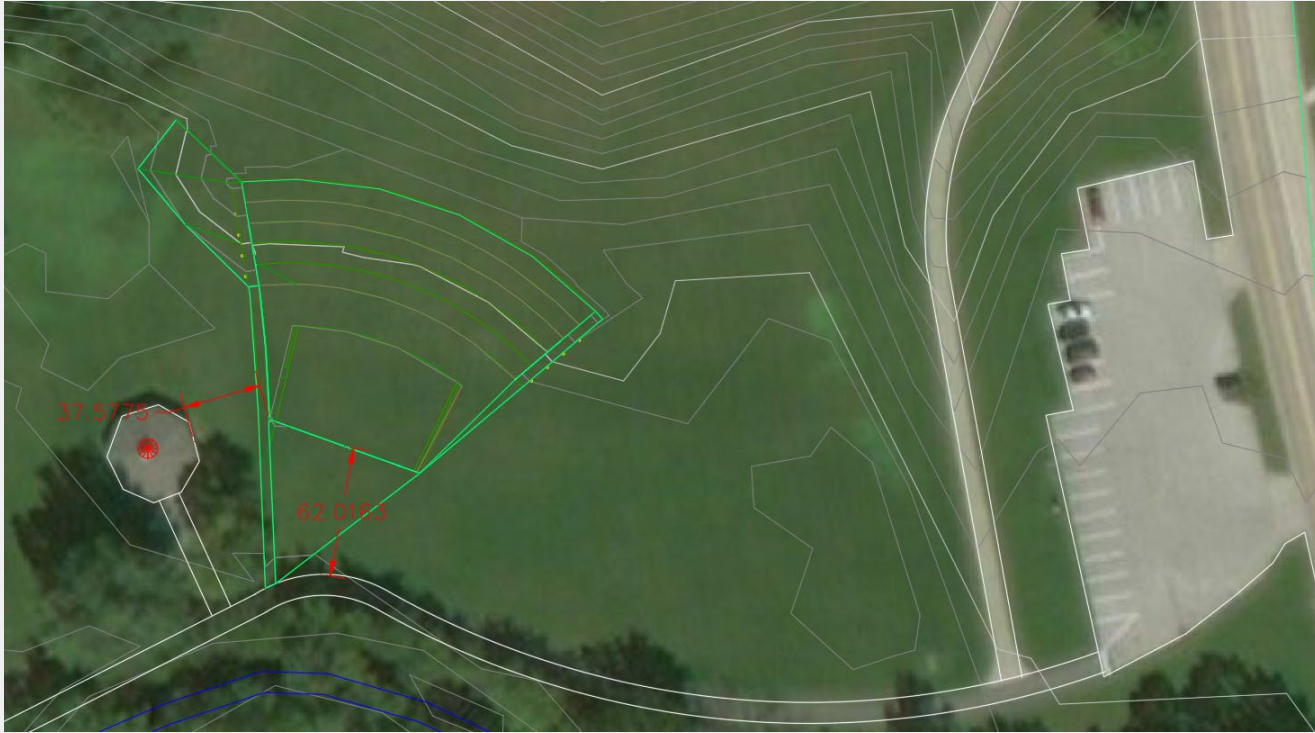
Project Location



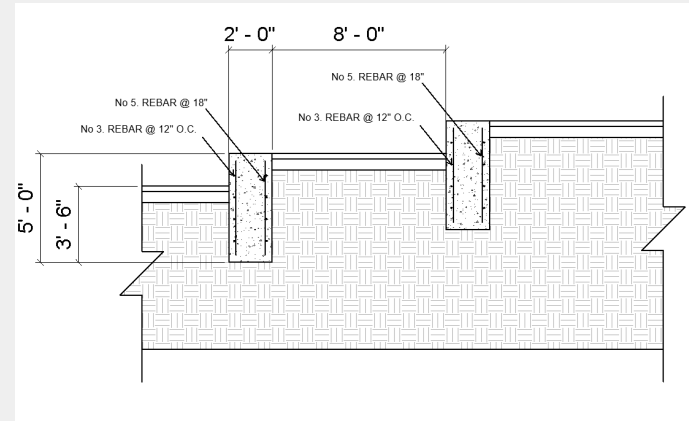
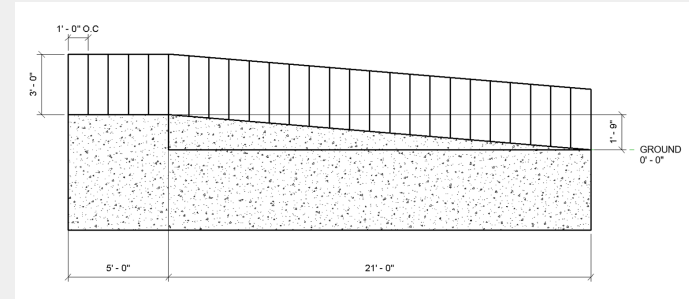
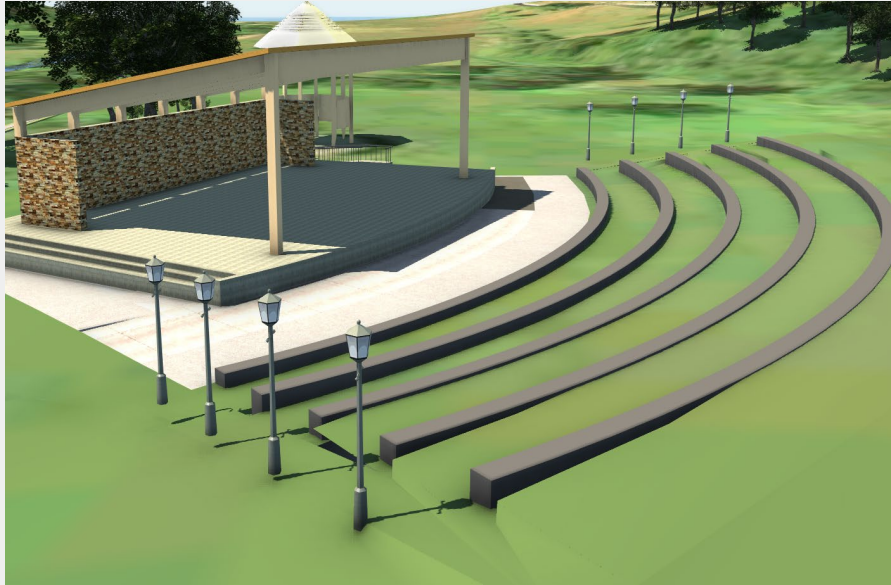
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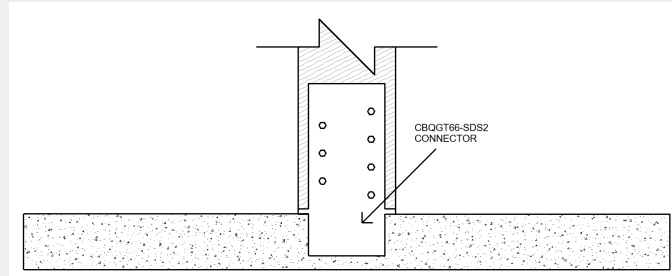
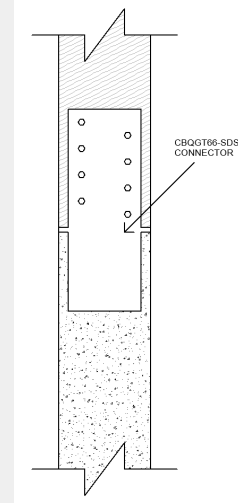
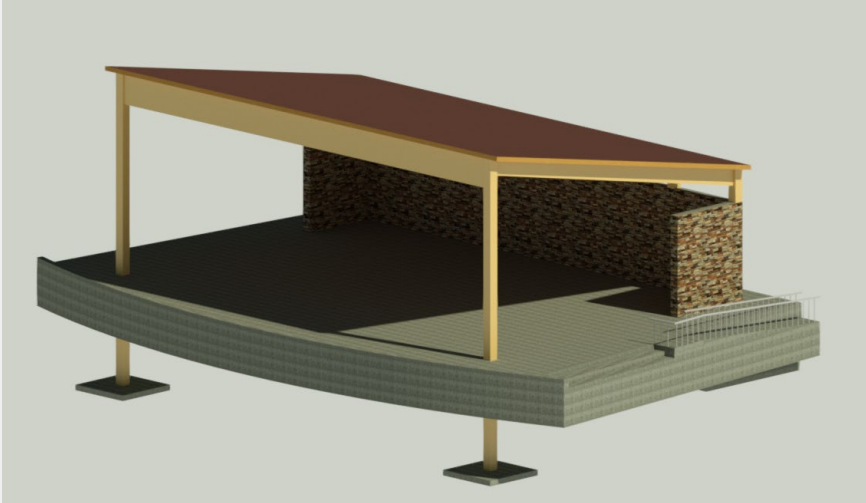
Site Design



Seating and Stage Layout



Phase 2 Structural Design



Phase 3 Structural Design



ADA Sidewalk



Rainwater Runoff

Assumptions

100 year 15 minute event

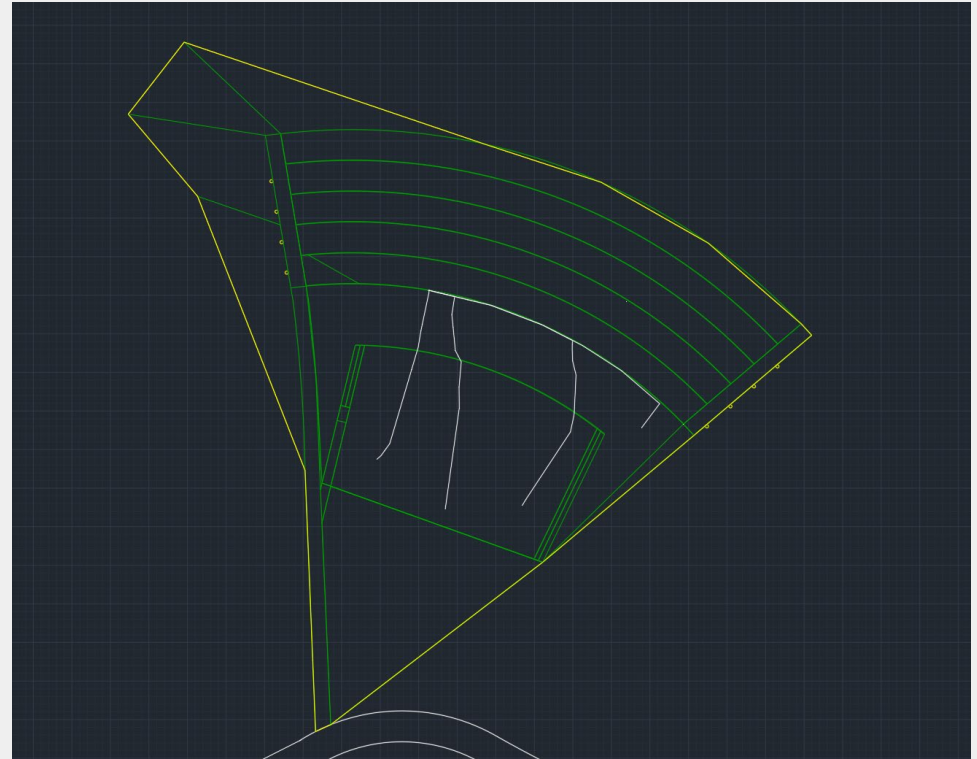
Method

Rational Method

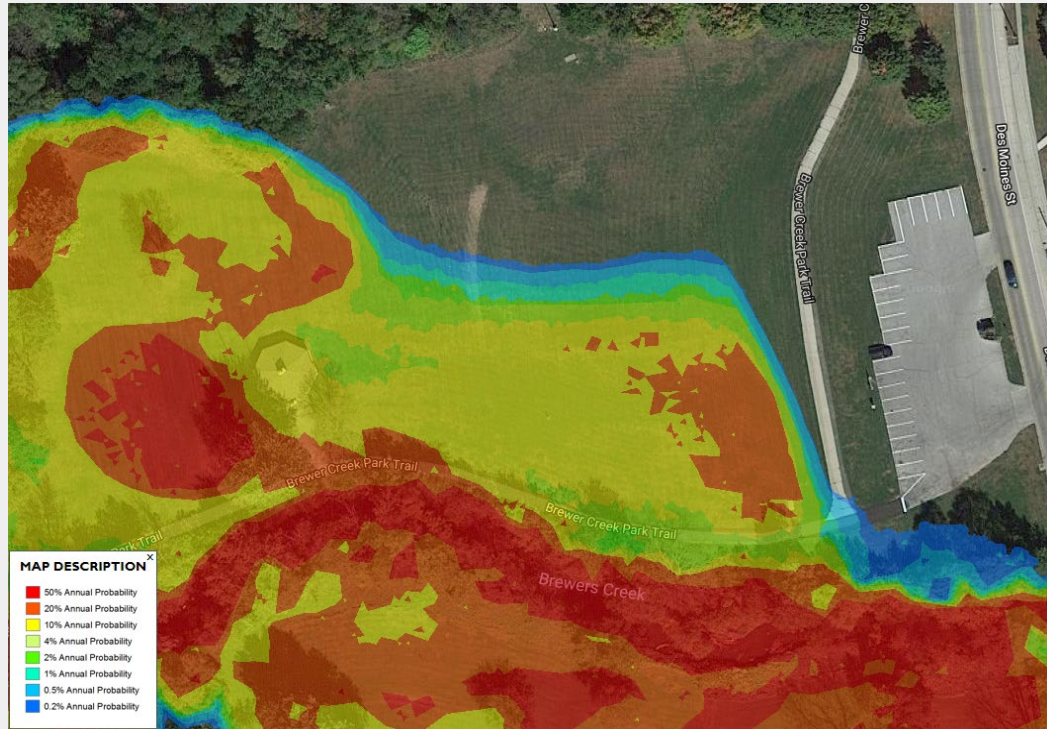
Results

Existing runoff: 28 cfs

Proposed Runoff: 29.4 cfs



Flood Mitigation



Phase 1 Cost Estimate

Item	Units	Quantity	Unit Price (\$)	Total (\$)
<i>Steel Reinforcement</i>	Ton	20.3	2,125	43,137.50
<i>Concrete</i>	Cubic Yard	378	450	170,100.00
<i>Site Work</i>	Cubic Yard	1126.68	21.5	24,223.62
<i>Construction Sub-Total</i>	-	-	-	237,461.12
<i>10% Contingencies</i>	-	-	-	23,746.11
<i>5% Engineering/Admin.</i>	-	-	-	11,873.06
TOTAL COST				273,080.00

Phase 2 Cost Estimate

Item	Units	Quantity	Unit Price (\$)	Total (\$)
<i>Steel Reinforcement</i>	Ton	20.3	2,125.00	43,137.50
<i>Concrete</i>	Cubic Yard	378	450.00	170,100.00
<i>Structural Framing</i>	M.B.F	1.081	1,750.00	15,950.00
<i>Demolition</i>	Square Feet	40	20.00	800.00
<i>Site Work</i>	Cubic Yard	1126.68	21.50	24,223.62
<i>Construction Sub-Total</i>	-	-	-	254,211.10
<i>10% Contingencies</i>	-	-	-	25,421.11
<i>5% Engineering/Admin.</i>	-	-	-	12,710.56
TOTAL COST				292,343.00

Phase 3 Cost Estimate

Item	Units	Quantity	Unit Price (\$)	Total (\$)
<i>Steel Reinforcement</i>	Ton	20.3	2,125.00	43,137.50
<i>Concrete (Theater)</i>	Cubic Yard	378	450.00	170,100.00
<i>Structural Framing</i>	M.B.F	1.081	1,750.00	15,950.00
<i>Demolition</i>	Square Feet	40	20.00	800.00
<i>Lighting</i>	Units	10	1,025.00	10,250.00
<i>Site Work</i>	Cubic Yard	1,126.68	21.50	24,223.62
<i>Sidewalk (Concrete & Site Work)</i>	Cubic Yard	530	17.90	9,487.00
<i>Construction Sub-Total</i>	-	-	-	273,948.10
<i>10% Contingencies</i>	-	-	-	27,394.81
<i>5% Engineering/Admin.</i>	-	-	-	13,697.41
TOTAL COST				315,040.00

Recommendations

		Quantities				Rank			Final Score		
Criteria	Weight	Phase 1	Phase 2	Phase 3	Total	Phase 1	Phase 2	Phase 3	Phase 1	Phase 2	Phase 3
<i>Upfront Cost</i>	9	3	2	1	6	0.50	0.33	0.17	4.50	3.00	1.50
<i>Aesthetics</i>	10	1	3	3	7	0.14	0.43	0.43	1.43	4.29	4.29
<i>Construction Time</i>	5	3	2	1	6	0.50	0.33	0.17	2.50	1.67	0.83
<i>Venue Accommodations</i>	3	1	2	3	6	0.17	0.33	0.50	0.50	1.00	1.50
FINAL SCORE									8.93	9.95	8.12

Questions?

