



- CHANGES:
- LARGER STAGING AREA AT PARKING LOT
 - ADA STAYS ON NORTH SIDE OF LAUNCH
 - PARKING BOLLARDS/QUARRY ROCK
 - REVISED ADA PATH WITH HAND RAIL(8% W/ LANDINGS OR GRADE TO REMOVE LANDINGS)
 - REDUCED LAUNCH RAMP WIDTH TO NPS RECOMMENDED SIZE (10')



CEI ENGINEERING ASSOCIATES, INC.
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LAKE LEWISVILLE
LELA KAYAK LAUNCH
201 E JONES ST
LEWISVILLE, TX

PRELIMINARY
NOT FOR
CONSTRUCTION

PROFESSIONAL OF RECORD	CWR
PROJECT MANAGER	MD
DESIGNER	FEW
CEI PROJECT NUMBER	33855
DATE	7/24/2024
REVISION	REV-0

CONCEPT 4

SHEET TITLE
SHEET NUMBER

C-4.0



CEI Engineering Associates, Inc.
3030 Lyndon B Johnson Freeway Ste 920
Dallas, TX 75234
Phone: 972.488.3737
Matt Donnell

21-Jun-24
CEI Project No: 33855

Itemized Opinion of Probable Cost
LLELA Kayak Launch
Lewisville, TX

Concept - 4

Item	Quantity	Unit	Cost	Total	Cost +/-
Design					
1 Meetings, Travel, Administrative Costs	1	LS	\$ 9,500.00	\$ 9,500.00	
2 Survey	1	LS	\$ 7,000.00	\$ 7,000.00	
3 50% & 100% Design Construction Documents	1	LS	\$ 37,000.00	\$ 37,000.00	
4 Permitting	1	LS	\$ 7,500.00	\$ 7,500.00	
5 Specifications and Bidding	1	LS	\$ 8,500.00	\$ 8,500.00	
			Sub Total	\$ 69,500.00	
Construction					
1 Mobilization, Staking, Bonding, & Insurance	1	LS	\$ 50,000.00	\$ 50,000.00	
2 Clearing and Grubbing	2.2	AC	\$ 5,000.00	\$ 11,000.00	
3 Tree and Fence Removal	1	LS	\$ 10,000.00	\$ 10,000.00	
4 Erosion Control Maintenance	1	LS	\$ 10,000.00	\$ 10,000.00	
5 Temporary Construction Entrance	1	EA	\$ 4,000.00	\$ 4,000.00	
6 Temporary Concrete Washout	1	EA	\$ 2,500.00	\$ 2,500.00	
7 Other Erosion Control BMP's	1	LS	\$ 35,000.00	\$ 35,000.00	
8 Excavation & Haul off	441	CY	\$ 45.00	\$ 19,845.00	
9 ADA Parking Spaces - Concrete	1138	SF	\$ 10.00	\$ 11,380.00	
10 ADA Sidewalk - Concrete	3764	SF	\$ 10.00	\$ 37,640.00	
11 Heavy Duty Concrete Paving	990	SF	\$ 35.00	\$ 34,650.00	
12 Kayak Launch Ramp Concrete Edge Ribbon	495	SF	\$ 35.00	\$ 17,325.00	
13 Kayak Launch Zone - PVC Grip Mat w/ Geogrid Subbase	1882	SF	\$ 25.00	\$ 47,050.00	
14 Kayak Ramp to Launch Zone - HydroTurf Z	1640	SF	\$ 12.00	\$ 19,680.00	
15 FlexTerra - Native Seed	1436	SY	\$ 1.65	\$ 2,369.40	
16 Proganics - Native Soil Amendment	1436	SY	\$ 1.50	\$ 2,154.00	
17 Biodegradable Erosion Blanket	471	SY	\$ 2.25	\$ 1,059.75	
18 North Lot - Gravel	819	SY	\$ 30.00	\$ 24,570.00	
19 South Lot and Drive - Gravel	2697	SY	\$ 30.00	\$ 80,910.00	
20 Restroom Facility (Romtec Model 1004)	1	EA	\$ 70,000.00	\$ 70,000.00	
21 Water/Electric to Restroom	1	LS	\$ 20,000.00	\$ 20,000.00	
22 Button Bush / Native Shrubs	71	EA	\$ 60.00	\$ 4,260.00	
23 Quarry Stone Bollards	8	EA	\$ 900.00	\$ 7,200.00	
24 16' USACE Standard Boom Gate	1	EA	\$ 8,000.00	\$ 8,000.00	
25 Signage & Stripping	1	LS	\$ 20,000.00	\$ 20,000.00	
26 Parking Blocks	45	EA	\$ 150.00	\$ 6,750.00	
27 Tree Preservation Fencing and Root Pruning	1	LS	\$ 6,000.00	\$ 6,000.00	
28 Stream Dredging - Navigable Path to Main Channel	100	CY	\$ 90.00	\$ 9,000.00	
			Sub Total	\$ 572,343.15	
			AACEi Class 3 - 30% Contingency	\$ 171,702.95	
			OPCC Total	\$ 744,046.10	
			OPC Total	\$ 813,546.10	
Concept 4 w/ Alternates					
9a ADA Parking - GeoPave	1138	SF	\$ 8.00	\$ 9,104.00	\$ (2,276.00)
10a ADA Sidewalk - GeoPave	3764	SF	\$ 8.00	\$ 30,112.00	\$ (7,528.00)
16a North Lot - Asphalt	819	SY	\$ 60.00	\$ 49,140.00	\$ 24,570.00
17a South Lot and Drive - Geopave	2697	SY	\$ 72.00	\$ 194,184.00	\$ 113,274.00
			Sub Total w/ Alternates	\$ 700,383.15	
			AACEi Class 3 - 30% Contingency	\$ 210,114.95	
			OPCC Total w/ Alternates	\$ 910,498.10	
			OPC Total w/ Alternates	\$ 979,998.10	

Note:

This Engineer's estimate of construction costs is based on recent local area bid tabulations, industry estimating manuals and other available data. This Engineer's estimate is without the benefit of actual bidding, local contractor input, or Local City or State final design approval. This does not include cut and fill calcs. The actual costs, at bid could vary substantially.