

Riverside Elementary School Critical Needs Project Design & Construction Services



*Board of Education
November 18, 2020*

Riverside Critical Needs Scope



Original Critical Needs Scope

FMP Critical Needs Scope	Scope of Work Solution
<p>Conditions suggested possible soil stabilization and foundation work needed.</p> <p>FMP Recommendations:</p> <ul style="list-style-type: none">• Replace Multi Purpose Room and several classroom buildings• Create a new Kindergarten complex as part of the classroom replacement <p>Funding Allocated: 6.9M</p>	<p>After further structural and seismic review, the best approach to implement the intent of the critical needs scope is a soil stabilization project.</p> <ul style="list-style-type: none">• Phase 1: Soil stabilization along Wildcat Creek• Phase 2: Relocate and improve outdoor learning environments and play structure

Riverside ES Projected Timeline

**Summer
2020**

**Request for
Qualifications
for Soil
Stabilization
Design Build
Entity (DBE)**

**Fall
2020**

**Request for
Proposals
issued to
short-listed
DBEs

Staff
Negotiations
with Best
Value Firm**

**Winter
2020**

**Board
Award of
DBE
Contract

LSRE Engineering
& Design
CGS Approval
DSA Approval**

**Summer
2021**

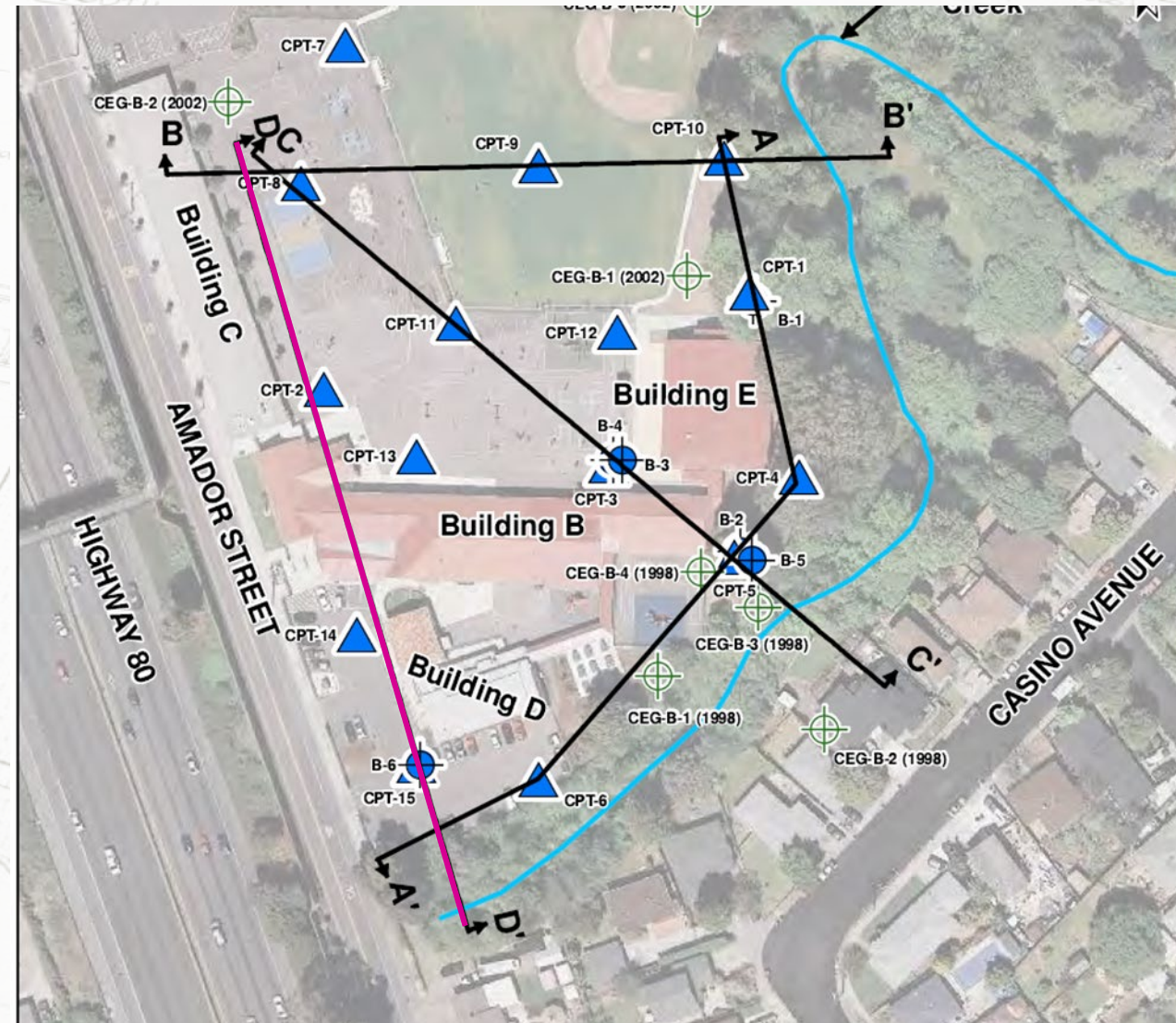
**Field
Construction
including
Installation of
Lateral
Spreading
Resisting
Elements
(LSRE)**

Note: Division of State Architect & California Geologic Survey review times and unknown conditions in construction may effect project timeline

Riverside ES Lateral Spreading Resisting Elements (LSRE)

Previous work identified liquefiable soil and risk of lateral movement of ground in direction of adjacent creek

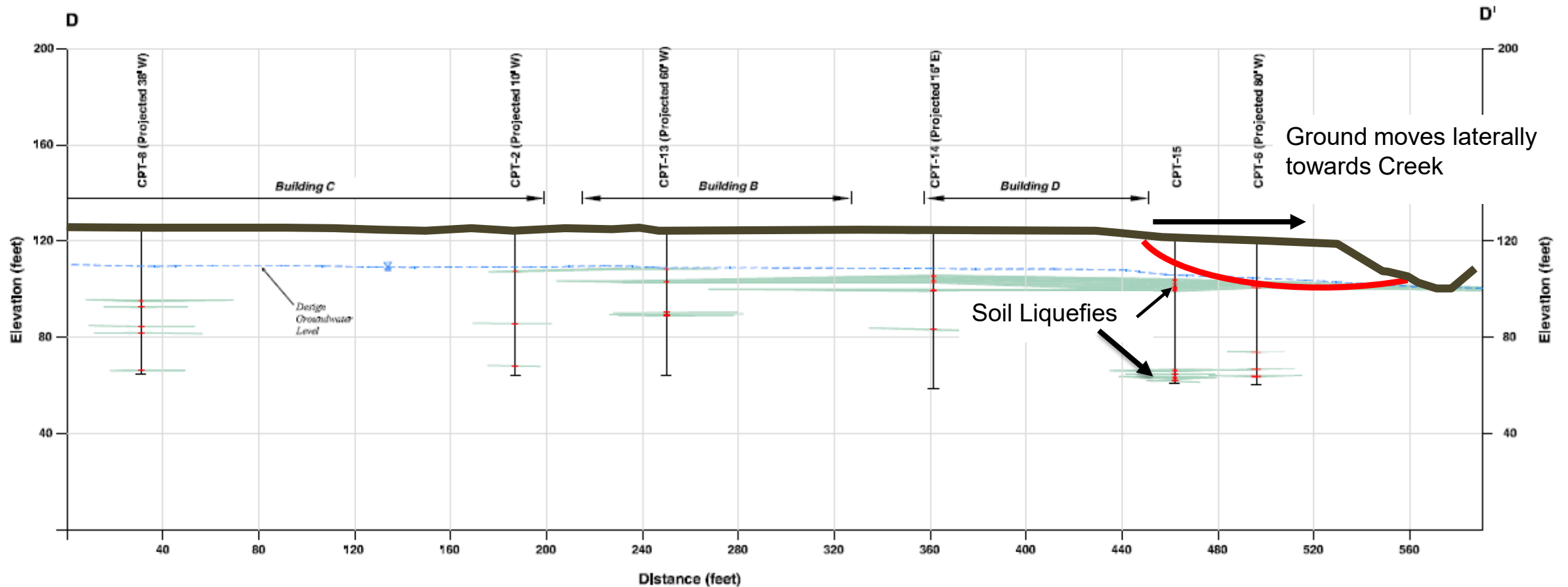
An LSRE will be constructed to reduce the risk of ground movement to the school buildings



Liquefaction Hazard at Riverside Elementary



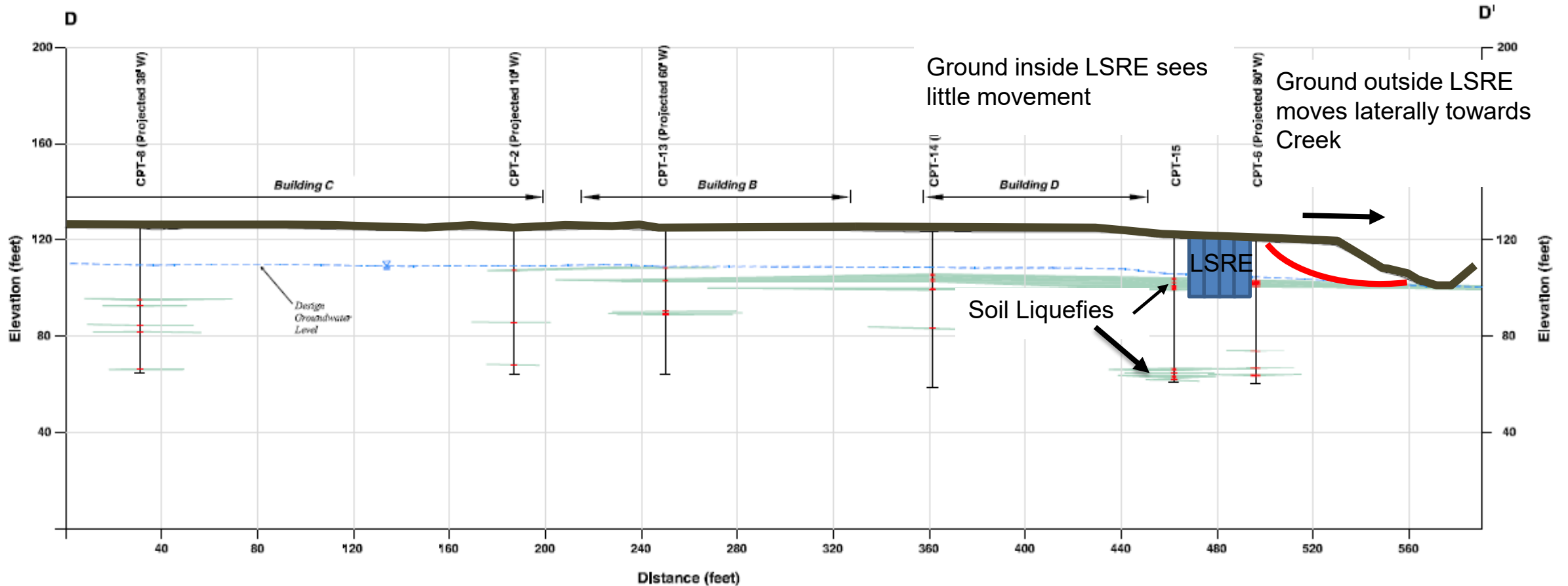
Large Earthquake



Soil Stabilization Solution



Large Earthquake



Mitigation with LSRE

Blend Soil with Cement



Mitigation with LSRE

Create shear walls in soil to resist lateral movement

