

Project Manager	Project (s)	Contact information
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Joanna Dixon, Associate Civil Engineer	Corte Madera Creek Flood Risk Management Project	jdixon@marincounty.org 415.473.7031
Felix Meneau, Assistant Engineer	Lower Corte Madera Creek Levee Evaluation; Rainfall/Stream gage network	fmeneau@marincounty.org 415.473.3223
Carey Lando, Senior Planner	Bridge Project liaison; Program website	clando@marincounty.org 415.473.5078
Bene DaSilva, Creek Maintenance Supervisor	Creek Maintenance Agreements	bdasilva@marincounty.org 415.473.6538

SAN ANSELMO FLOOD RISK REDUCTION FLOOD RISK REDUCTION PROJECT

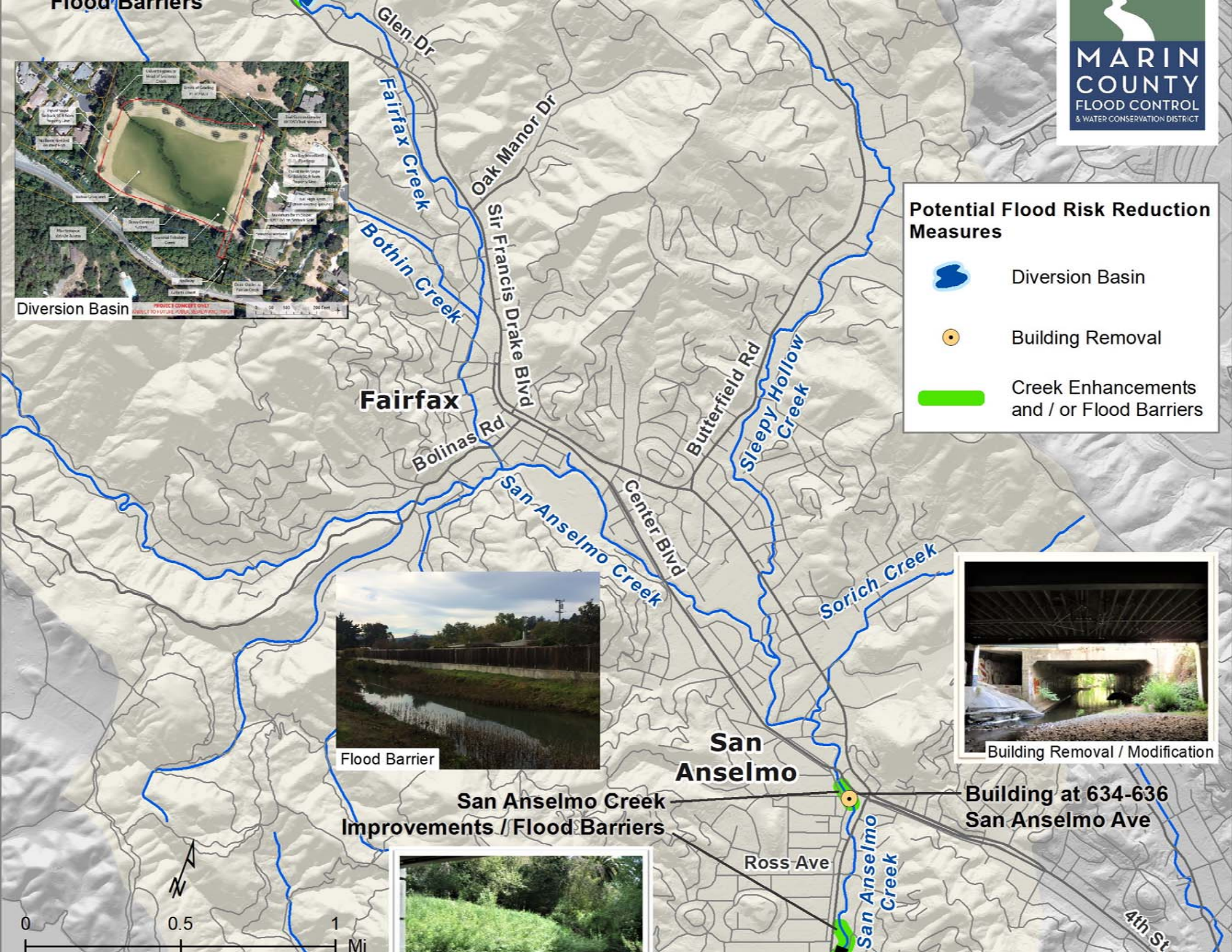
CURRENT SCHEDULE

Milestone	Timeline
60% design plans	January 2020
Permit applications	February 2020
Permit approval	Fall 2020
100% design plans	Winter 2020
Construction bidding and award	Winter 2020/21
Construction start	Spring 2021
Construction ends	Fall 2021 or Summer 2022



Potential Flood Risk Reduction Measures

-  Diversion Basin
-  Building Removal
-  Creek Enhancements and / or Flood Barriers



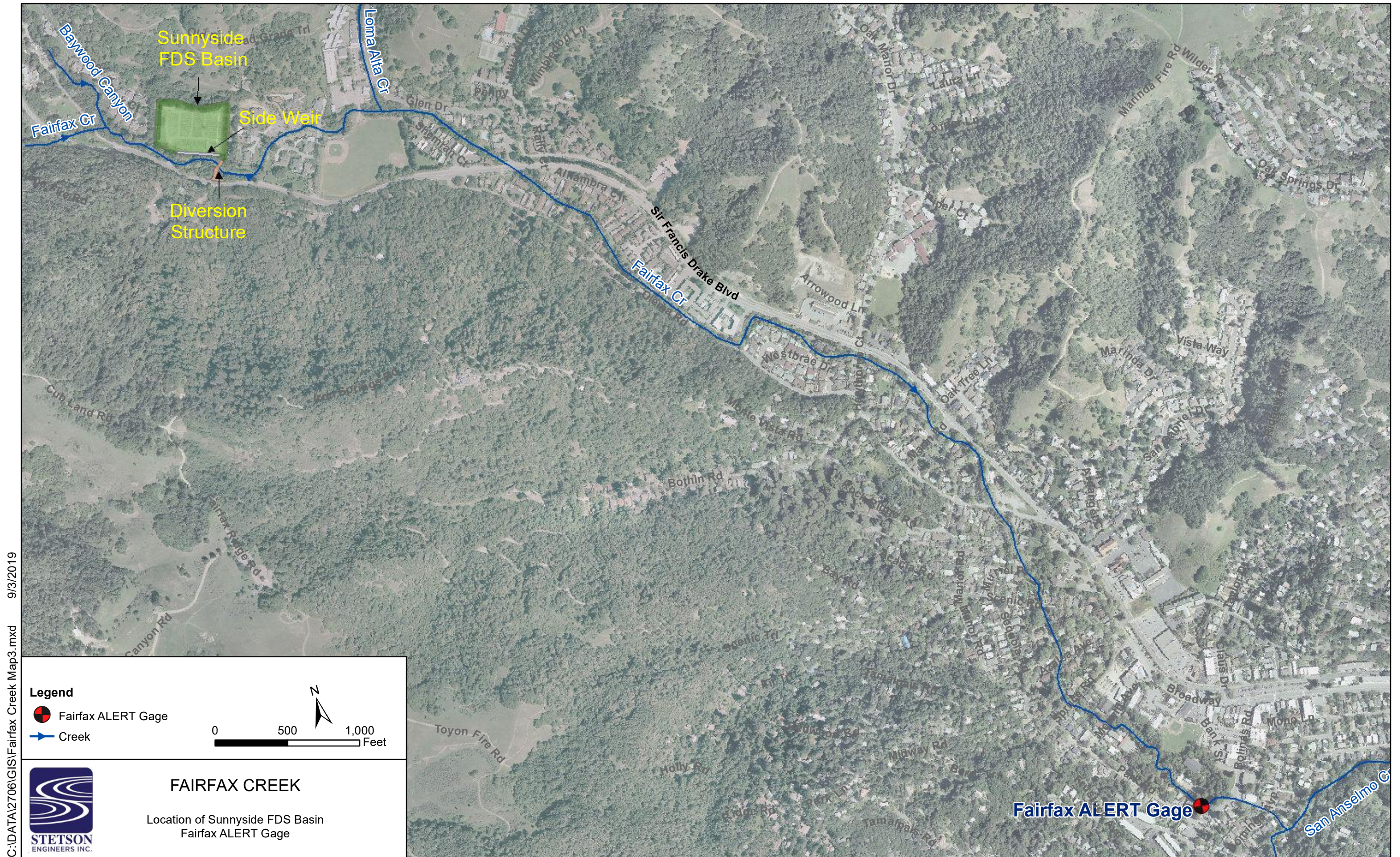
San Anselmo Creek Improvements / Flood Barriers

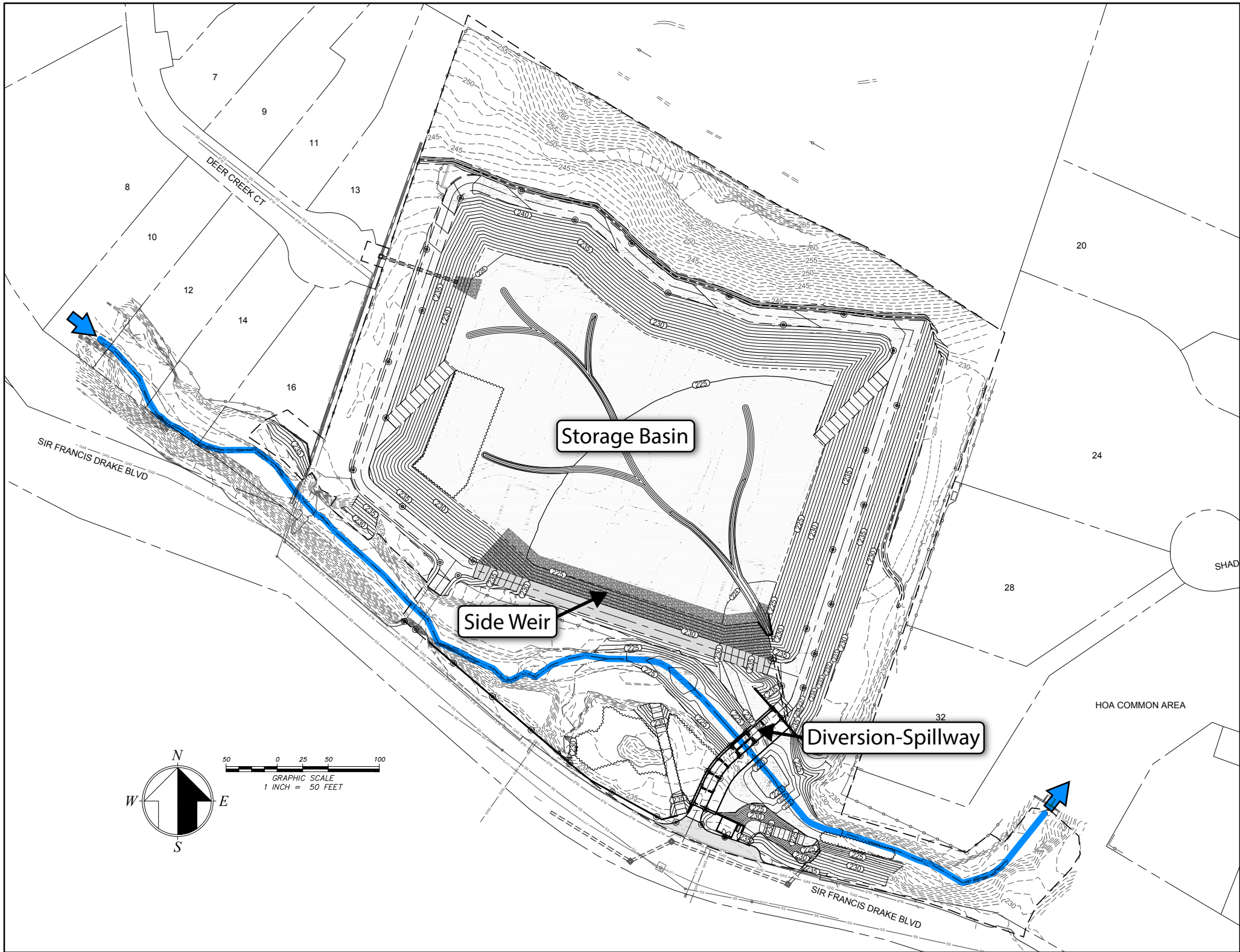
Building at 634-636 San Anselmo Ave



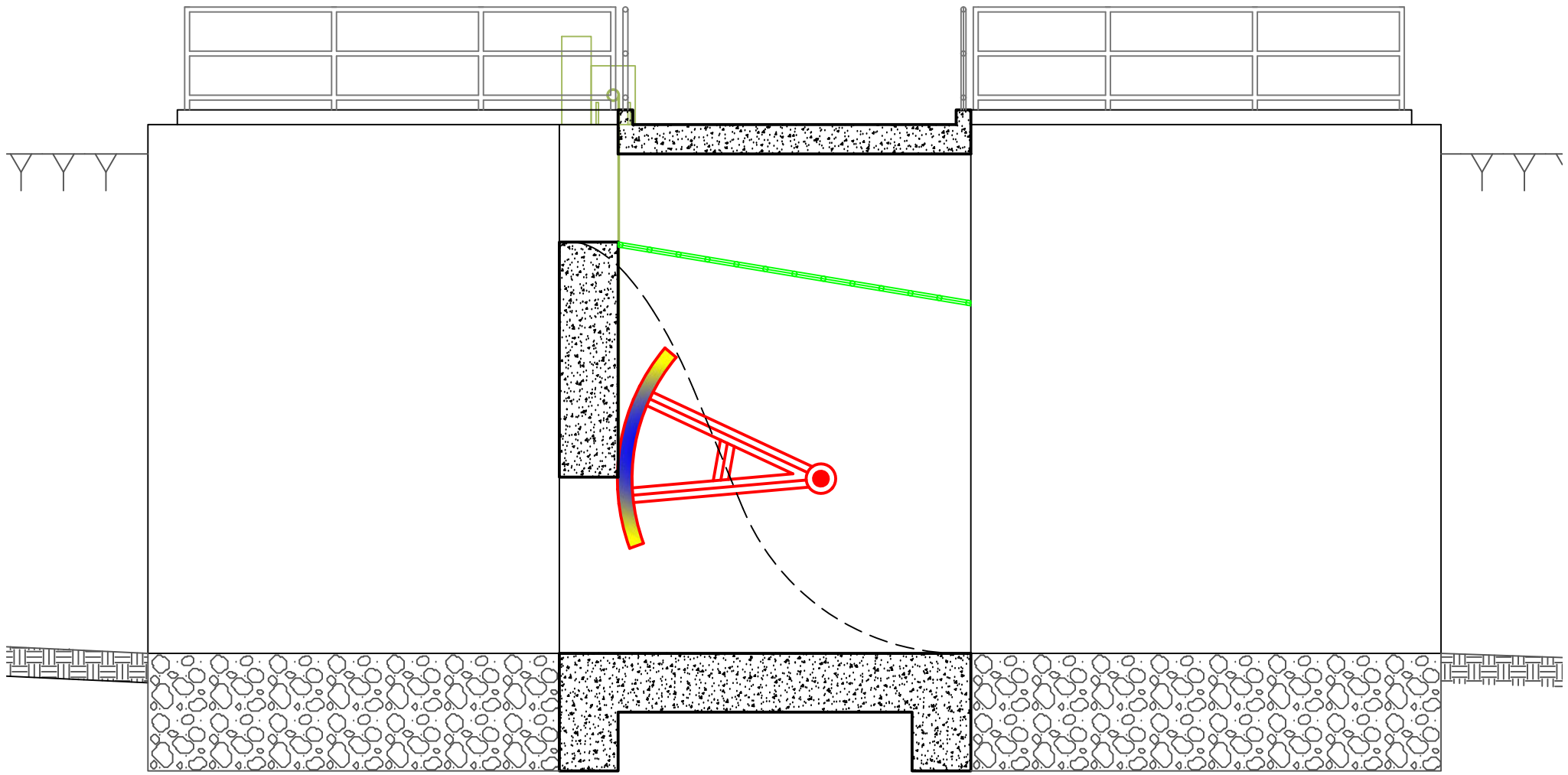
Flood Risk Change by Number of Parcels	10-year flood [10% chance]	25-year flood [4% chance]	100-year flood [1% chance]
Removed from Inundated Area	300	20	10
Decreased Inundation Depth	230	615	470
Parcels with New Inundated Area or Increase in Depth	0	18	19
Total with Reduced Flood Risk	530	635	480
Total with Increased Flood Risk	0	18	19

FIGURE 2

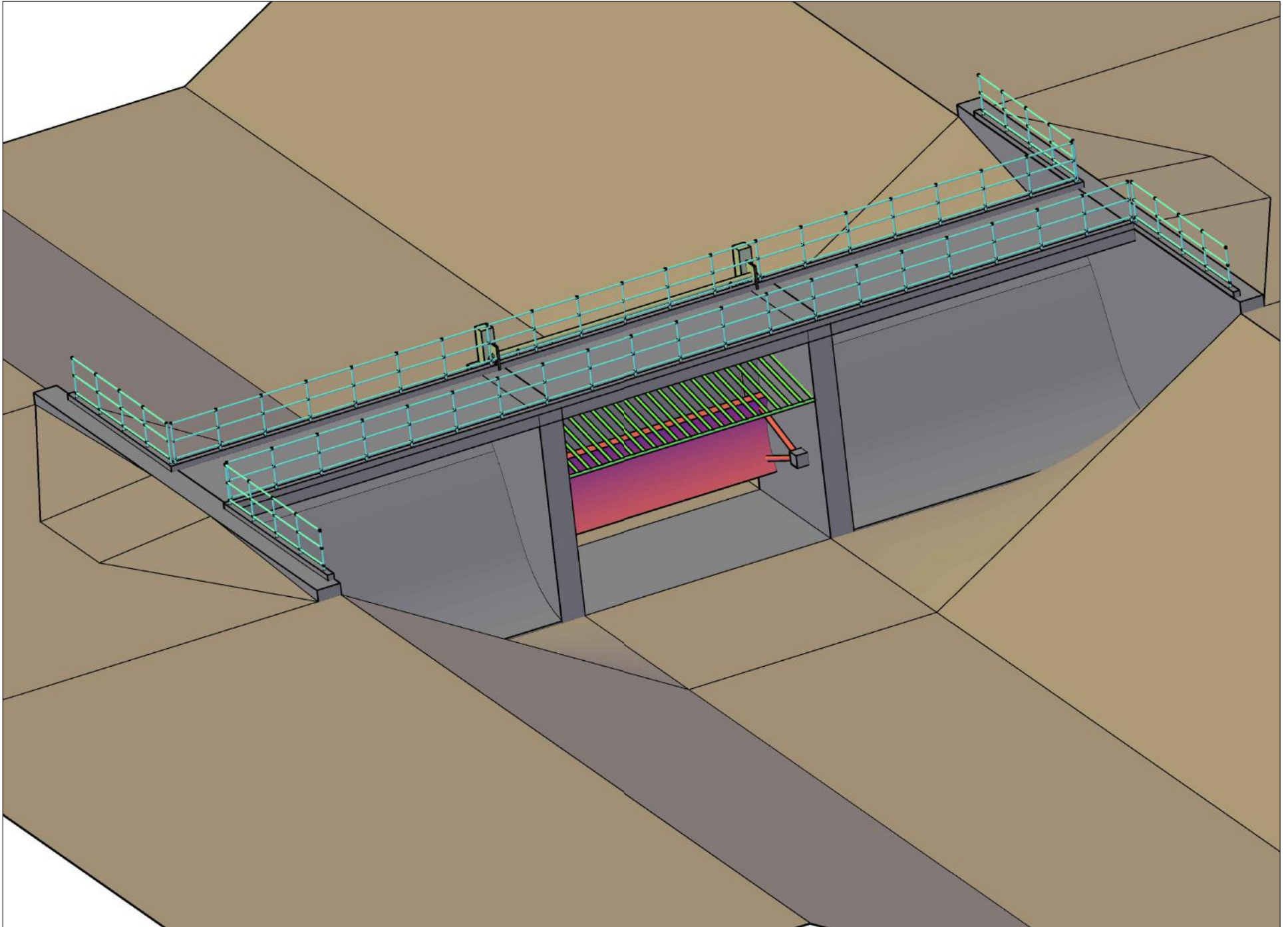




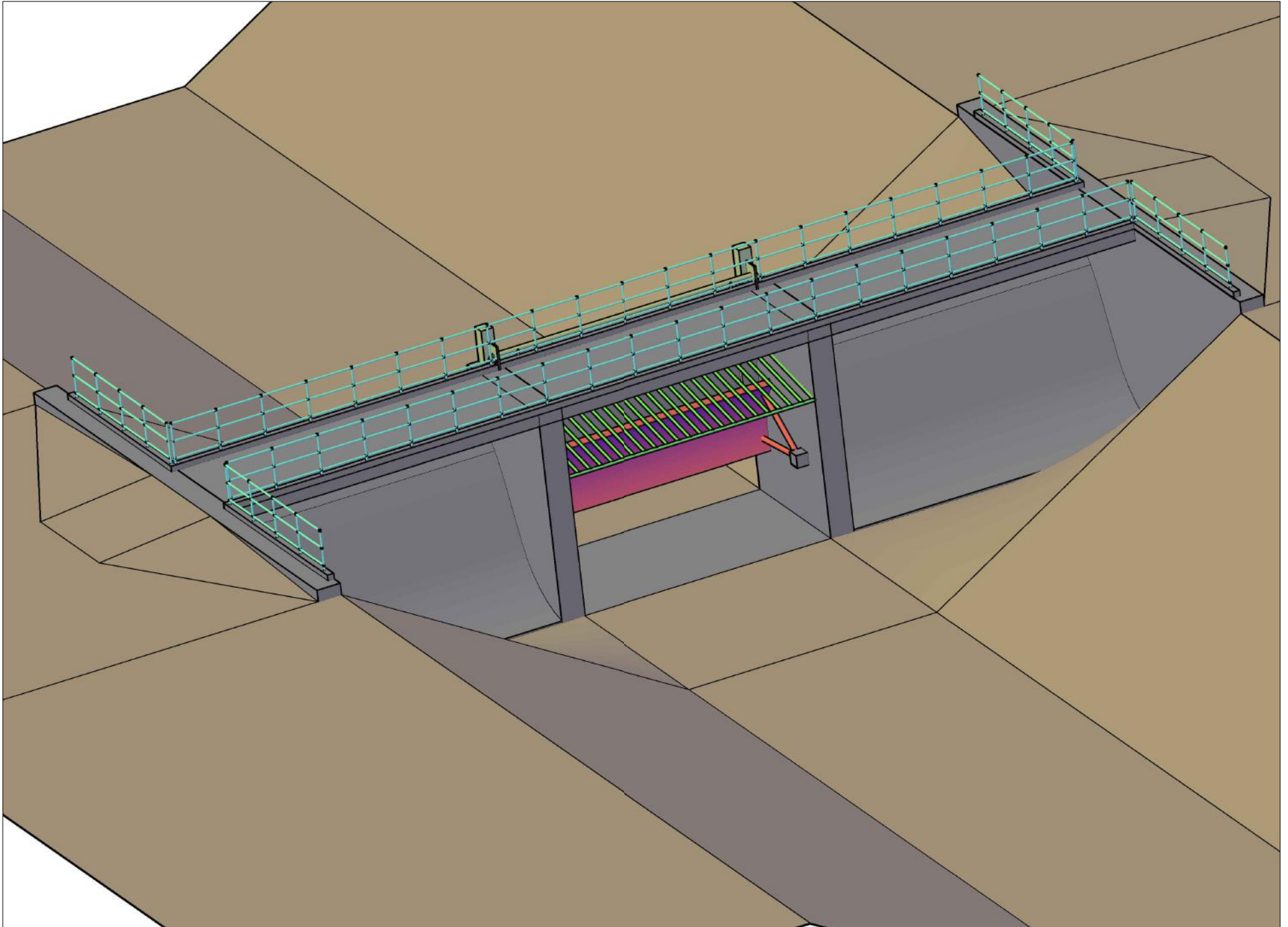
[CLICK HERE FOR LINK TO VIDEO RENDERING SHOWING A CONCEPTUAL DESIGN OF THE FORMER SUNNYSIDE NURSERY INTERIM DETENTION BASIN \(CONCEPTUAL DESIGN IS SUBJECT TO CHANGE DURING LATER DESIGN PHASES\)](#)



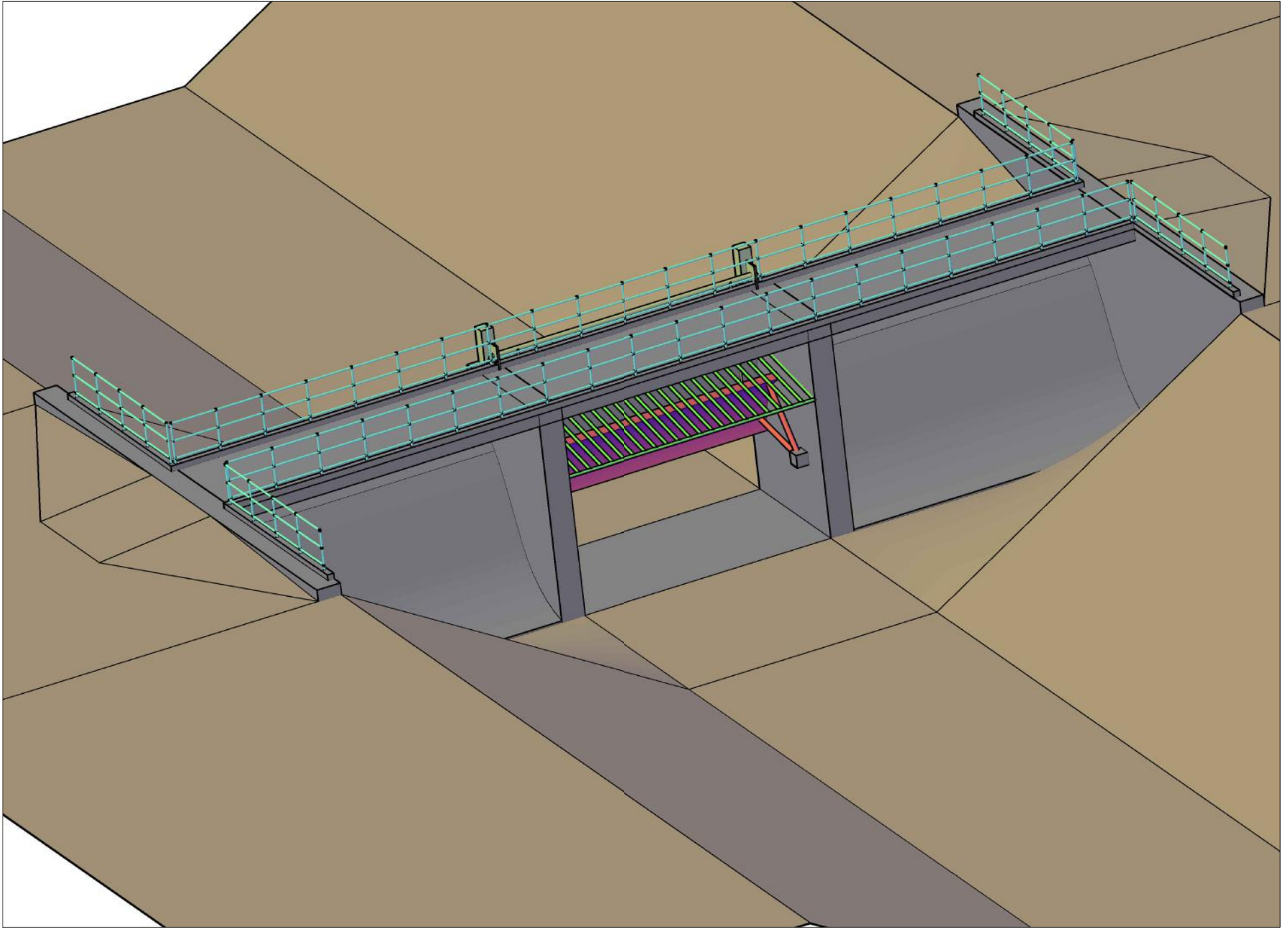
RADIAL GATE SECTION MIDWAY OPENING POSITION



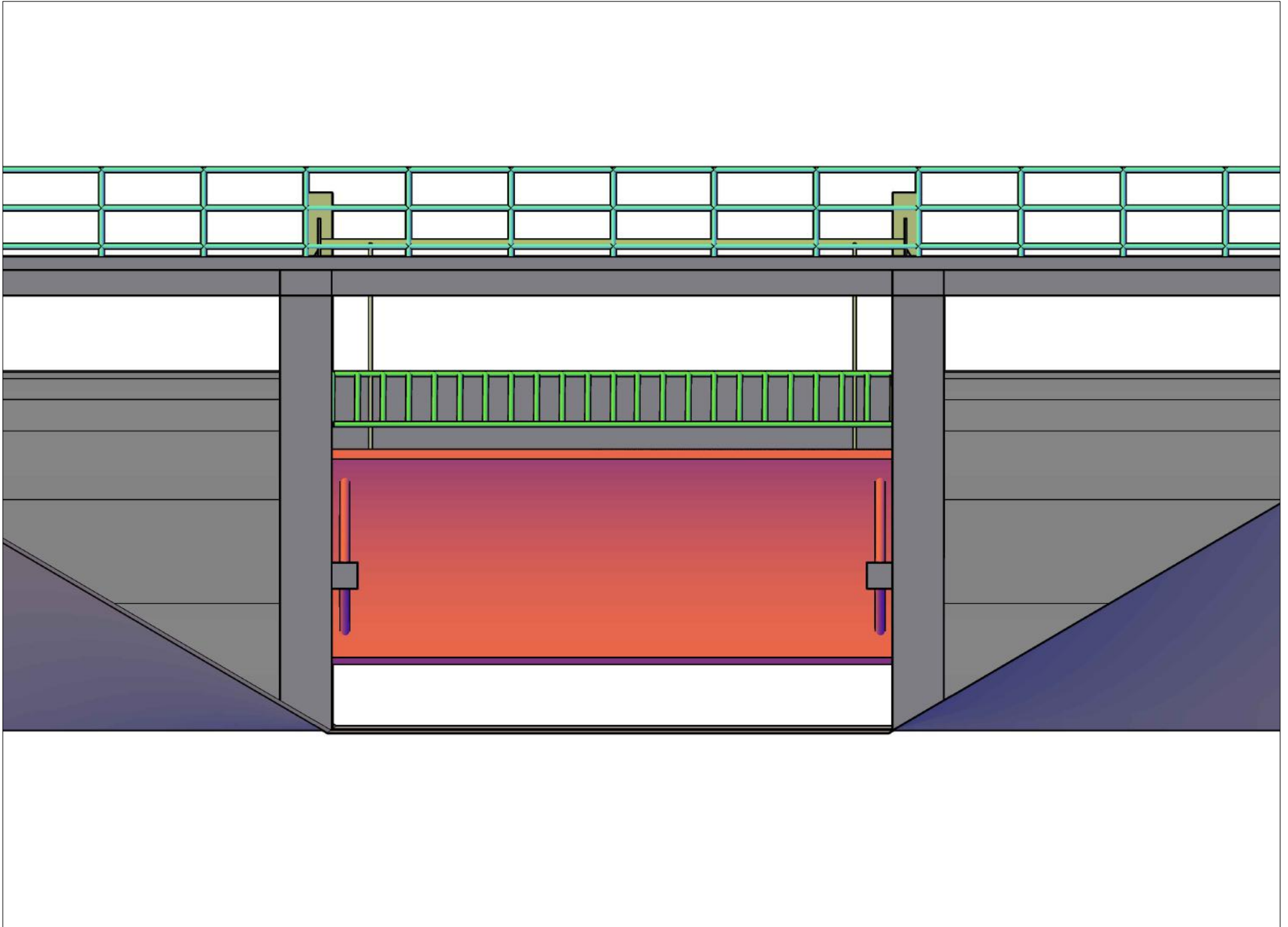
RADIAL GATE PARTIALLY CLOSED POSITION



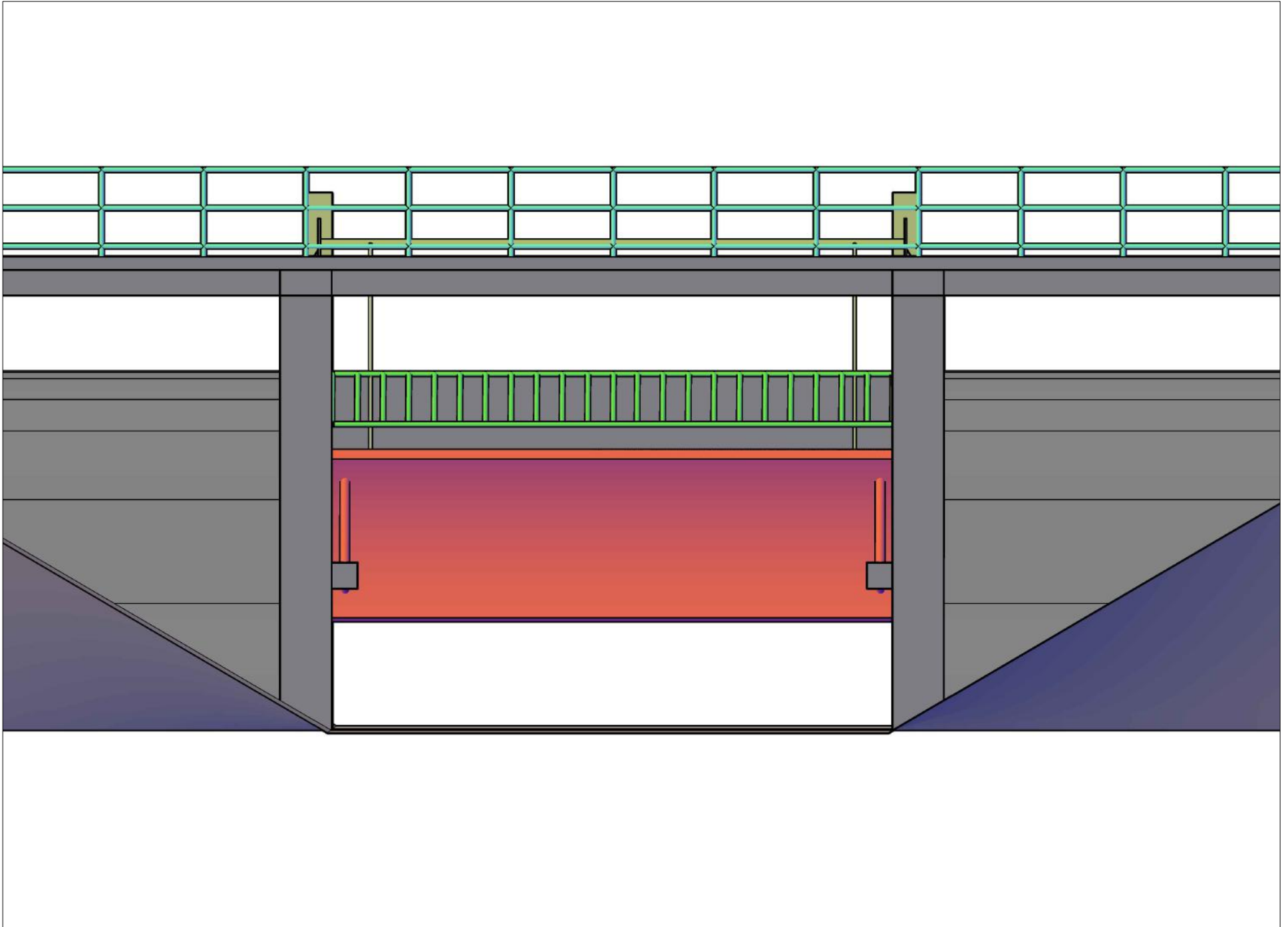
RADIAL GATE MIDWAY OPENING POSITION



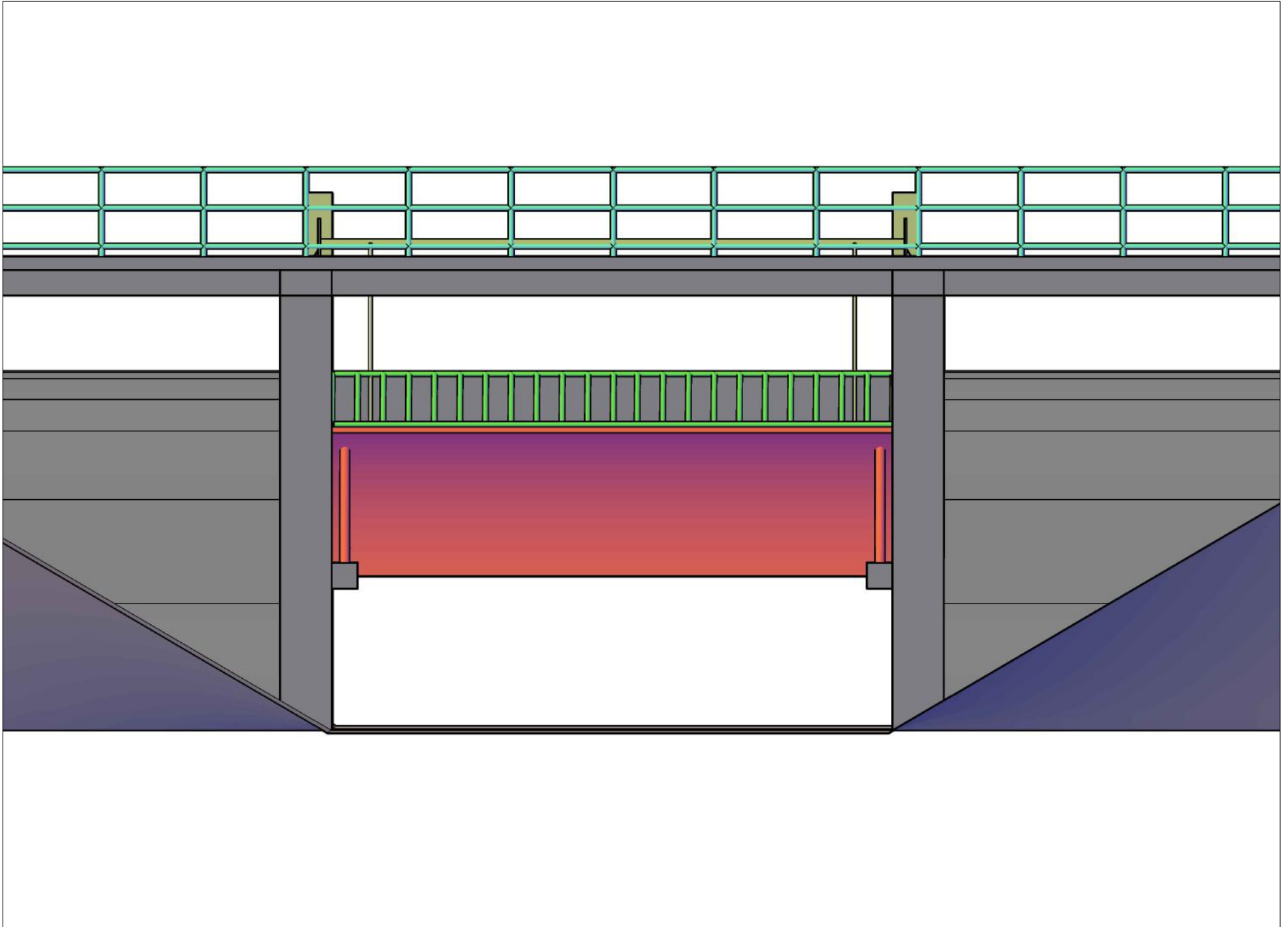
RADIAL GATE OPEN POSITION



RADIAL GATE PARTIALLY CLOSED POSITION



RADIAL GATE MIDWAY OPENING POSITION



RADIAL GATE OPEN POSITION

South Fork Eau Claire River Willard, WI

- Description: A single manually operated radial gate. Designed for ice loads of 5000lb/lf
- Size: 15ft W x 8ft H
- Purpose: Grade/ flow control
- Source: <https://www.steelfabinc.com/product/tainter-gates/>



Bretch Diversion Altus, Oklahoma

- Description: Bretch Diversion Structure is located on Elk Creek in Kiowa County about 24 miles northeast of Altus, Oklahoma, and about 15 miles northwest of Mountain Park Dam.
- Size: 18-foot-square radial gate
- Purpose: Controlling flows into Bretch Canal, which is designed for a flow of 1,000 cubic feet per second
- Source: <https://www.usbr.gov/projects/index.php?id=273>



Glenn Colusa Irrigation District Willows, CA

- Description: Three automated radial gates on Glenn Colusa ID main canal. Radio tower and instrumental enclosure for a PLC are in the forefront.
- Size: Three 20ft W x 12ft H
- Purpose: Controlling downstream flow rate in canal for irrigation diversions.
- Source: <http://www.itrc.org/report/s/pdf/turnouts.pdf>



Unknown Location In Idaho

- Description: Three automated radial gates at unknown location in Idaho.
- Size: Three 20ft W x 15ft H
- Purpose: Controlling upstream water level.
- Source: Waterman, USA
- ***Waiting to hear back from them about project details.



Unknown Location/ Project

- Source: Fresno Valves and Castings Website
- ***Waiting to hear back from them about project details.



Figure 10 Simulated 5-Year WSE Profiles under Existing and Project Conditions

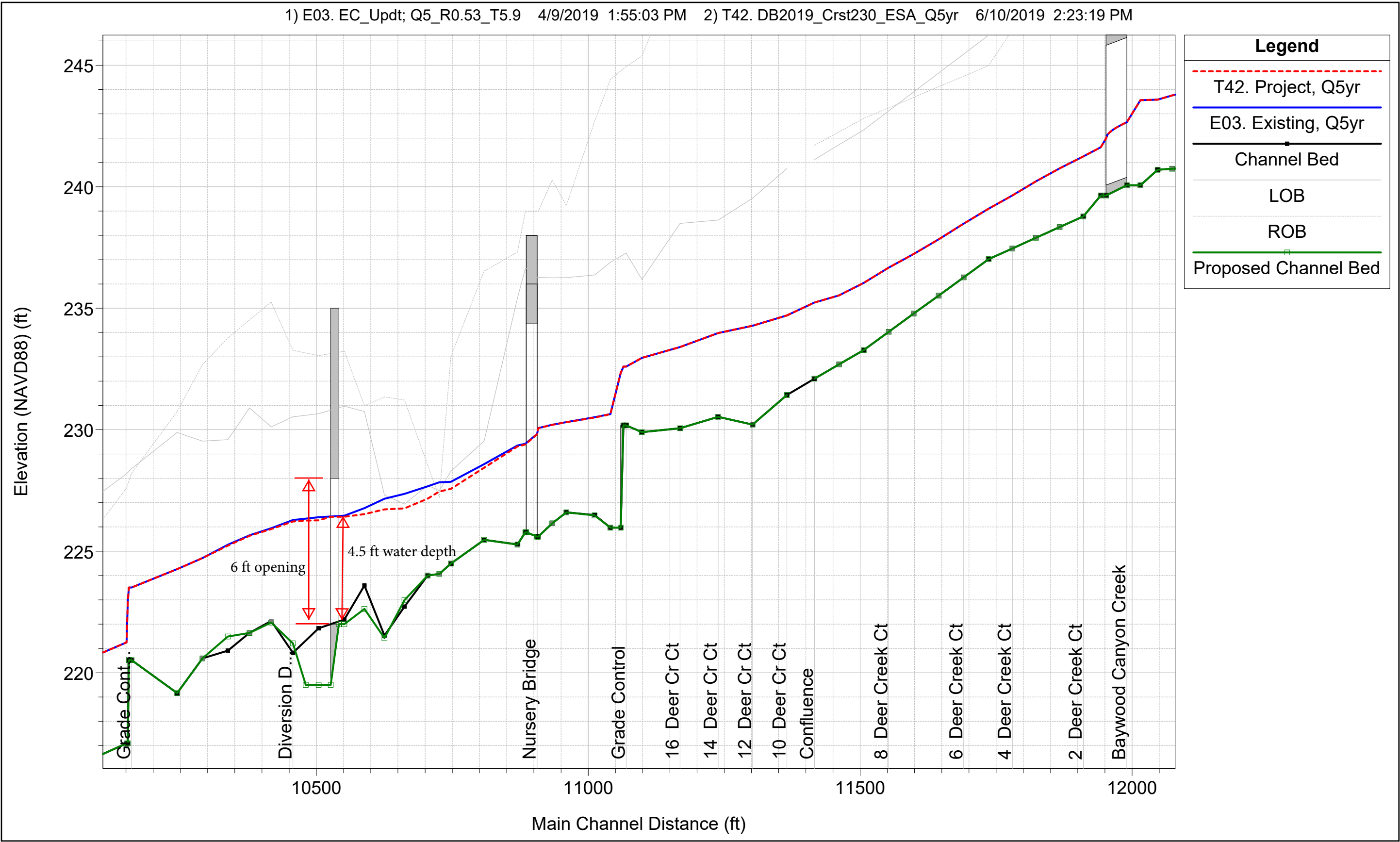
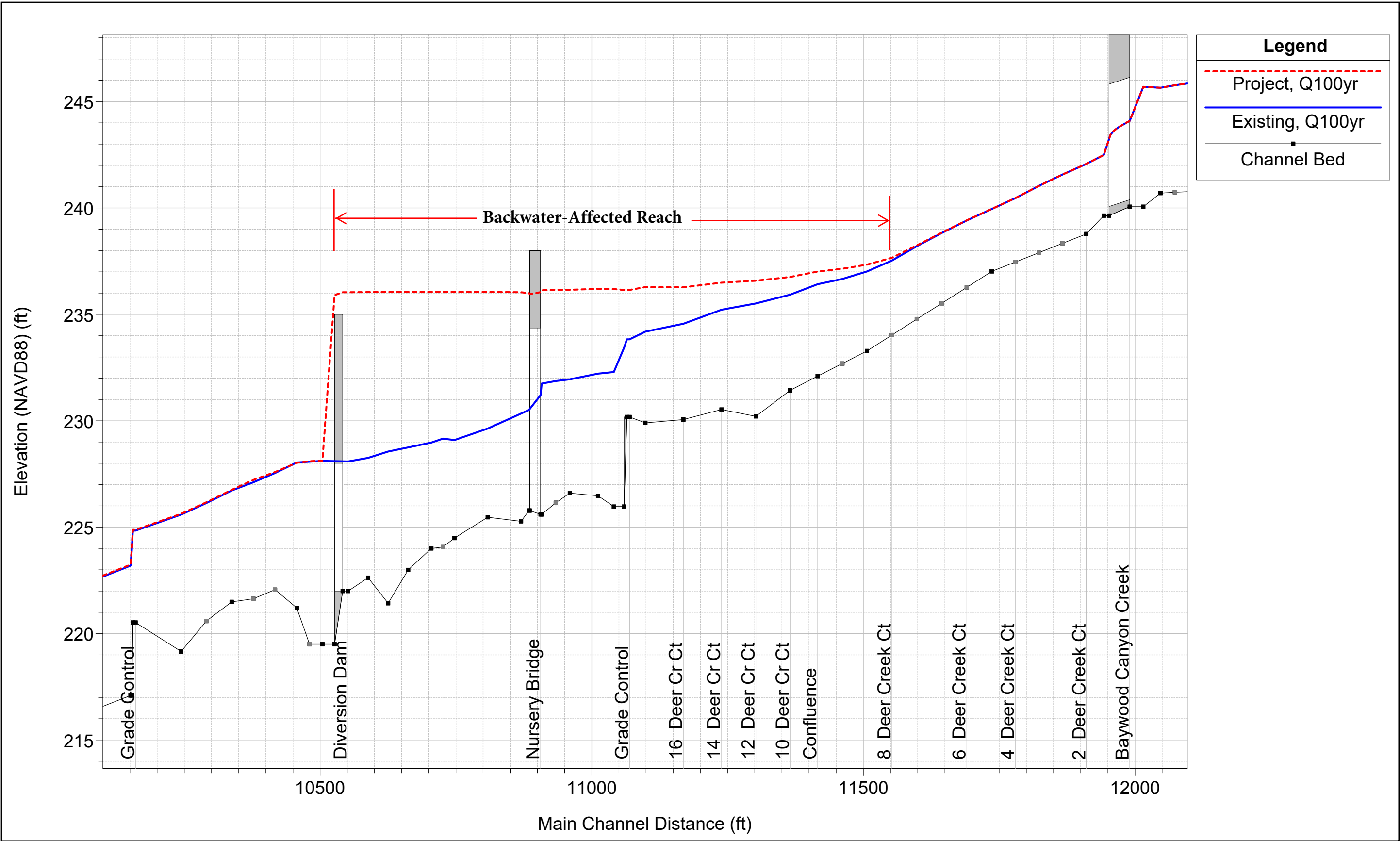
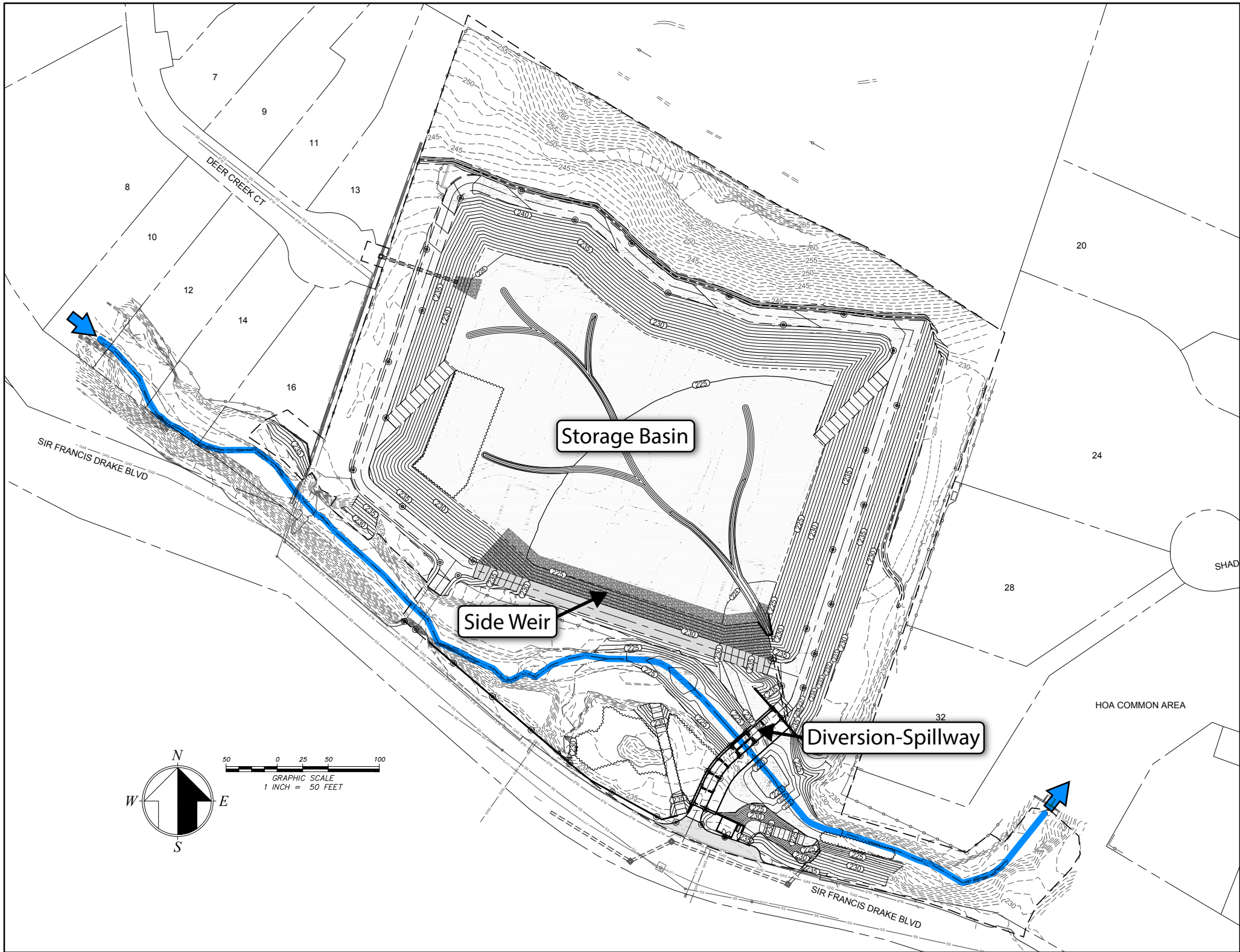
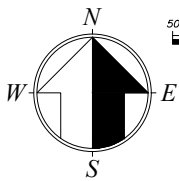
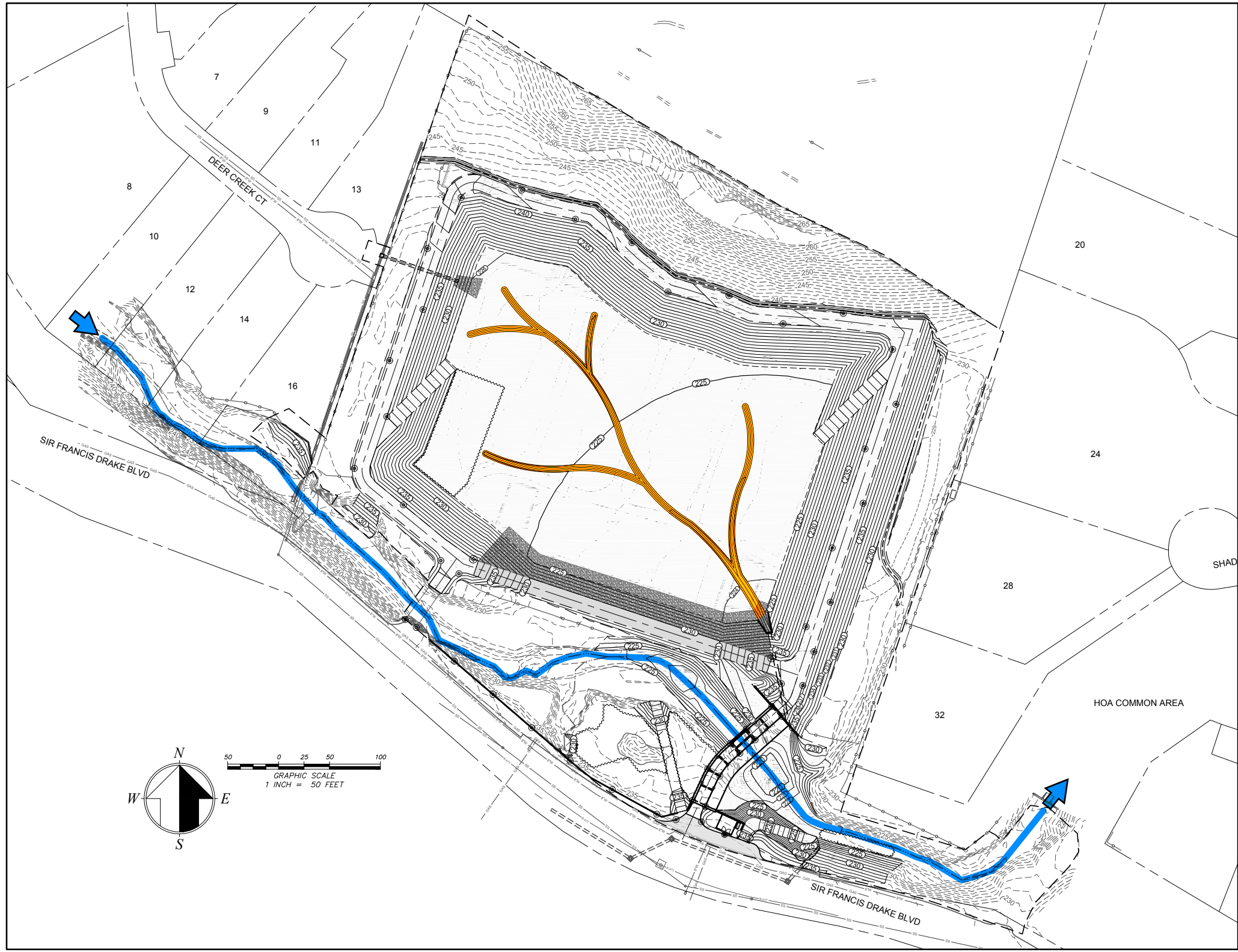


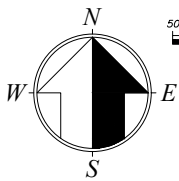
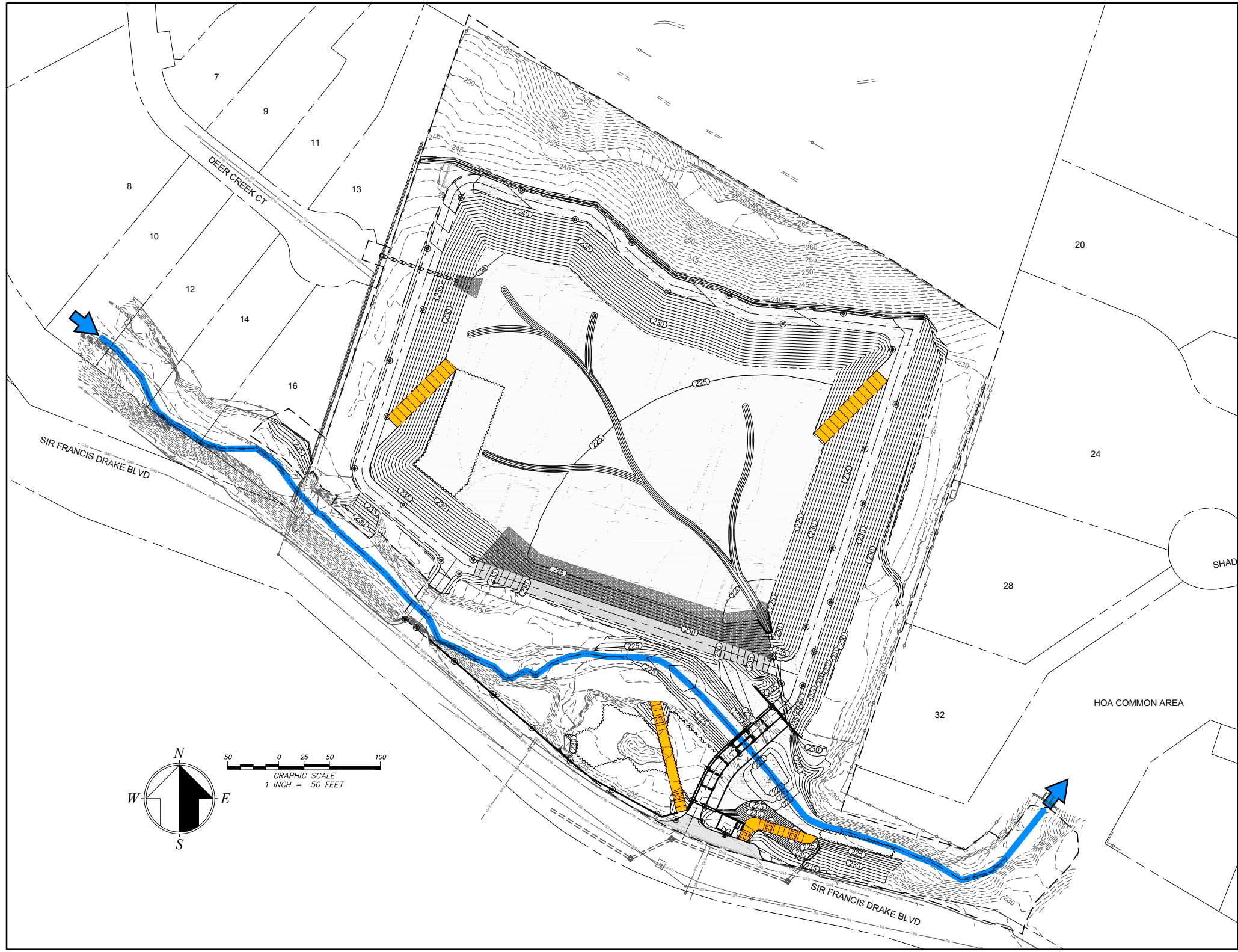
Figure 17 Comparison of 100-Year Water Surface Profiles Upstream of the Diversion Structure between Existing and Project Conditions





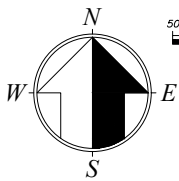
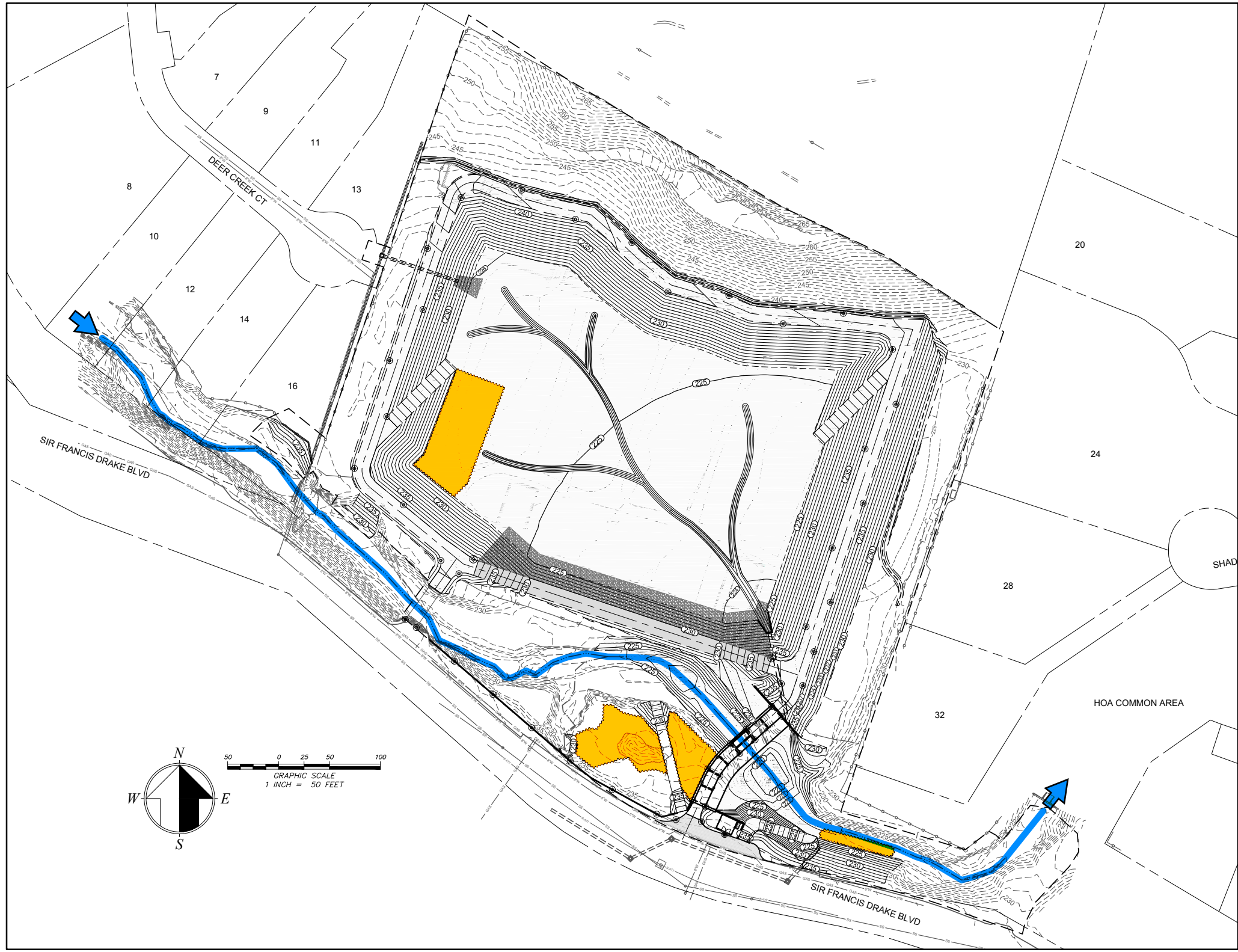


50 0 25 50 100
GRAPHIC SCALE
1 INCH = 50 FEET



50 0 25 50 100
GRAPHIC SCALE
1 INCH = 50 FEET

HOA COMMON AREA



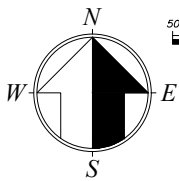
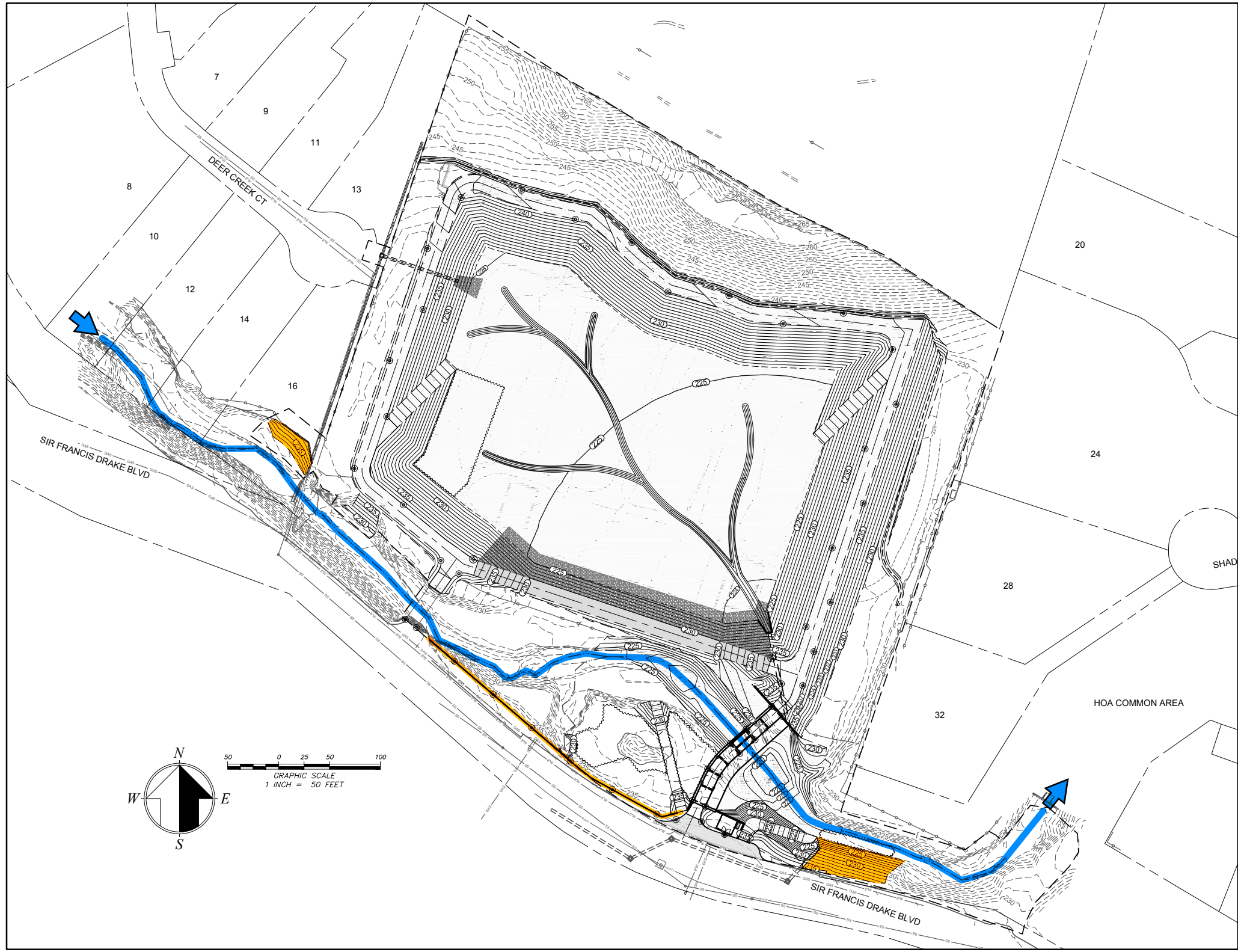
50 0 25 50 100
GRAPHIC SCALE
1 INCH = 50 FEET

HOA COMMON AREA

SIR FRANCIS DRAKE BLVD

SIR FRANCIS DRAKE BLVD

DEER CREEK CT



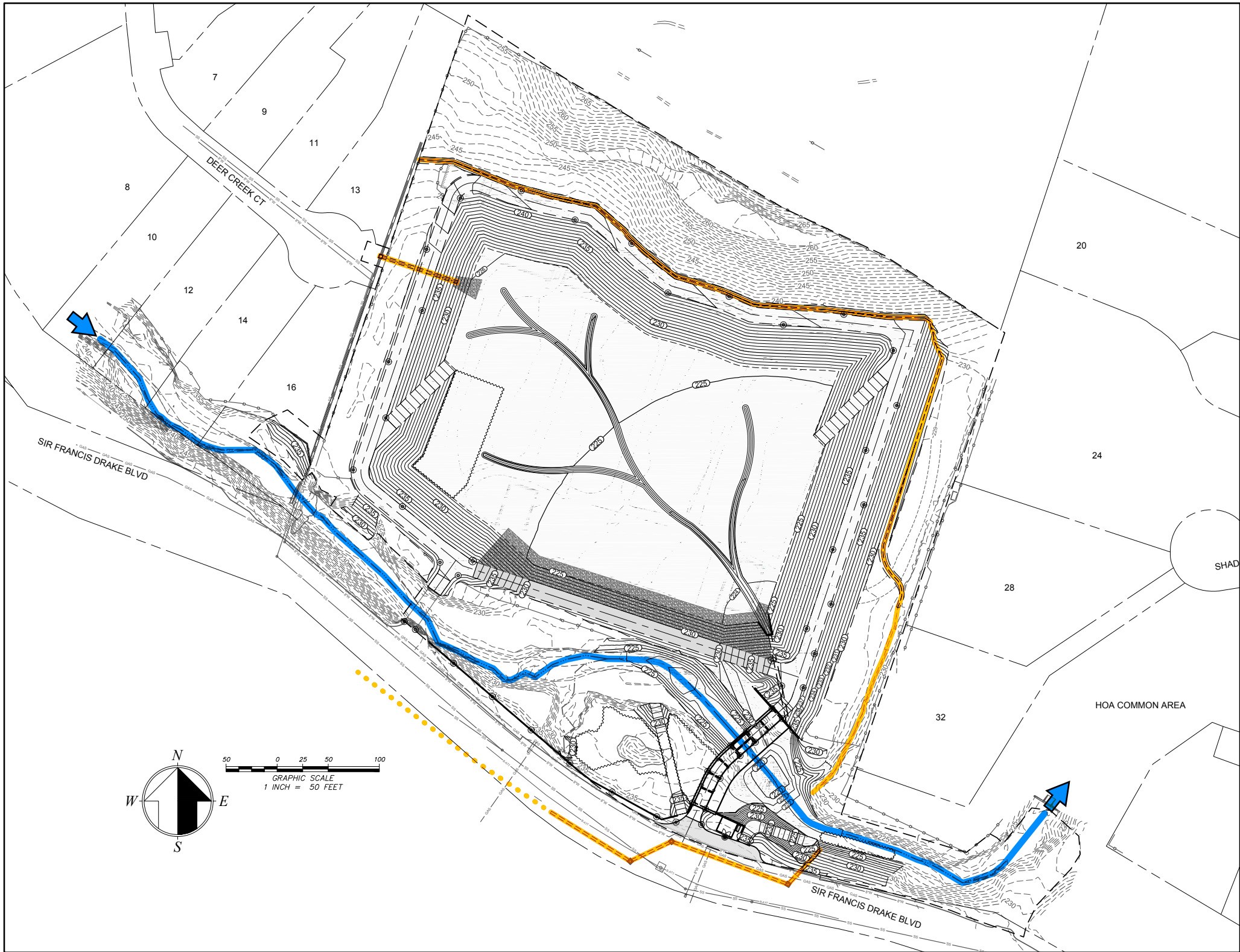
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GRAPHIC SCALE
1 INCH = 50 FEET

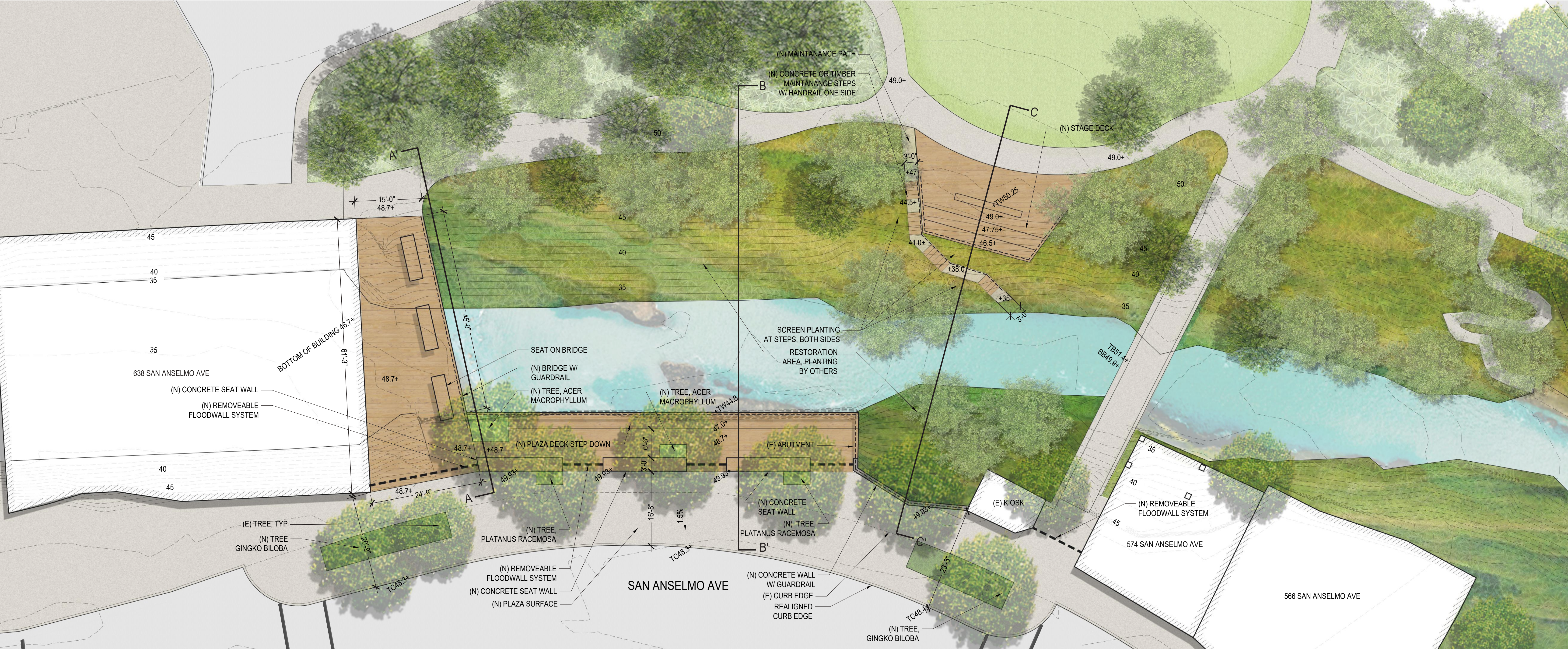
HOA COMMON AREA

SIR FRANCIS DRAKE BLVD

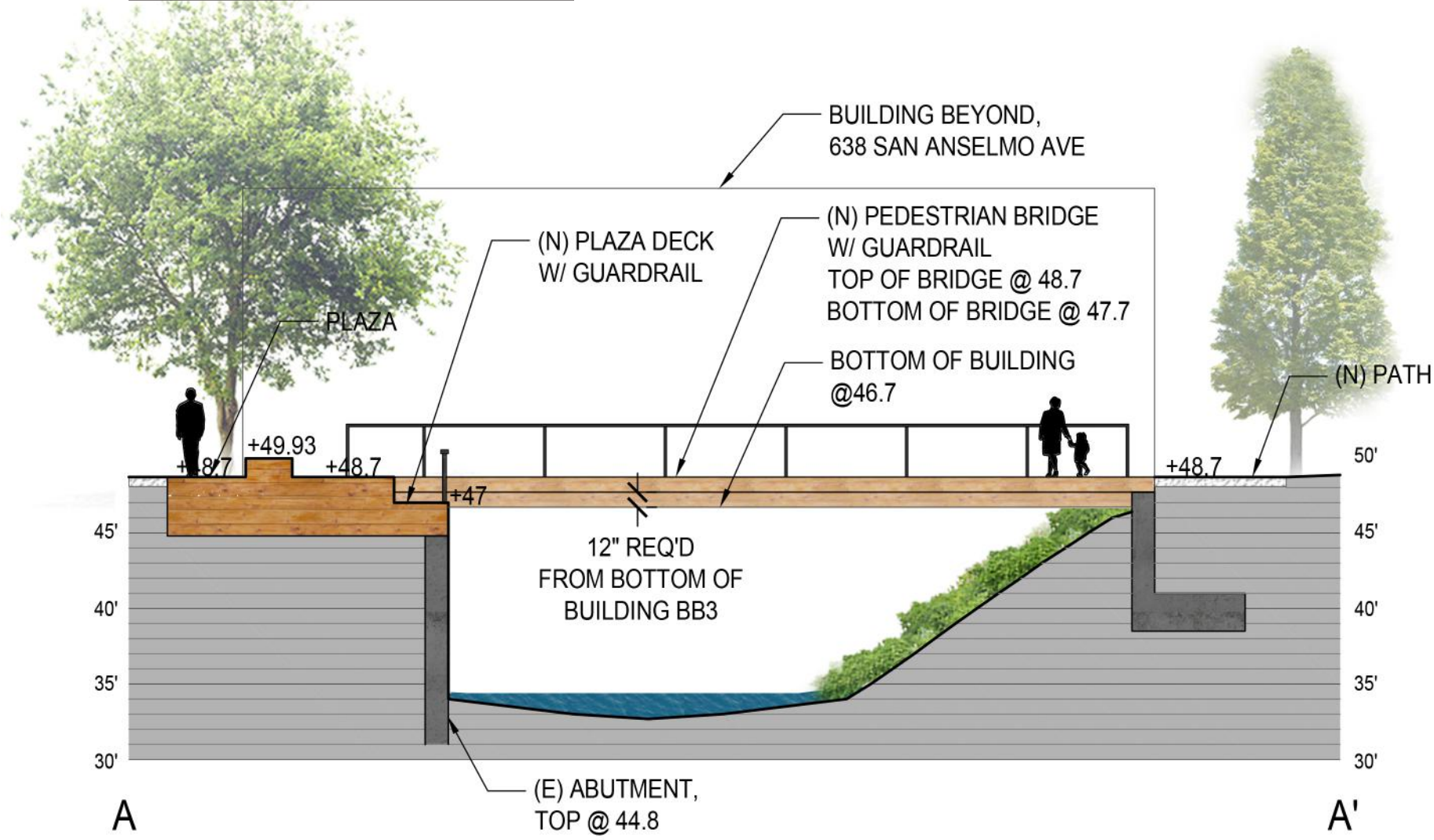
SIR FRANCIS DRAKE BLVD

DEER CREEK CT

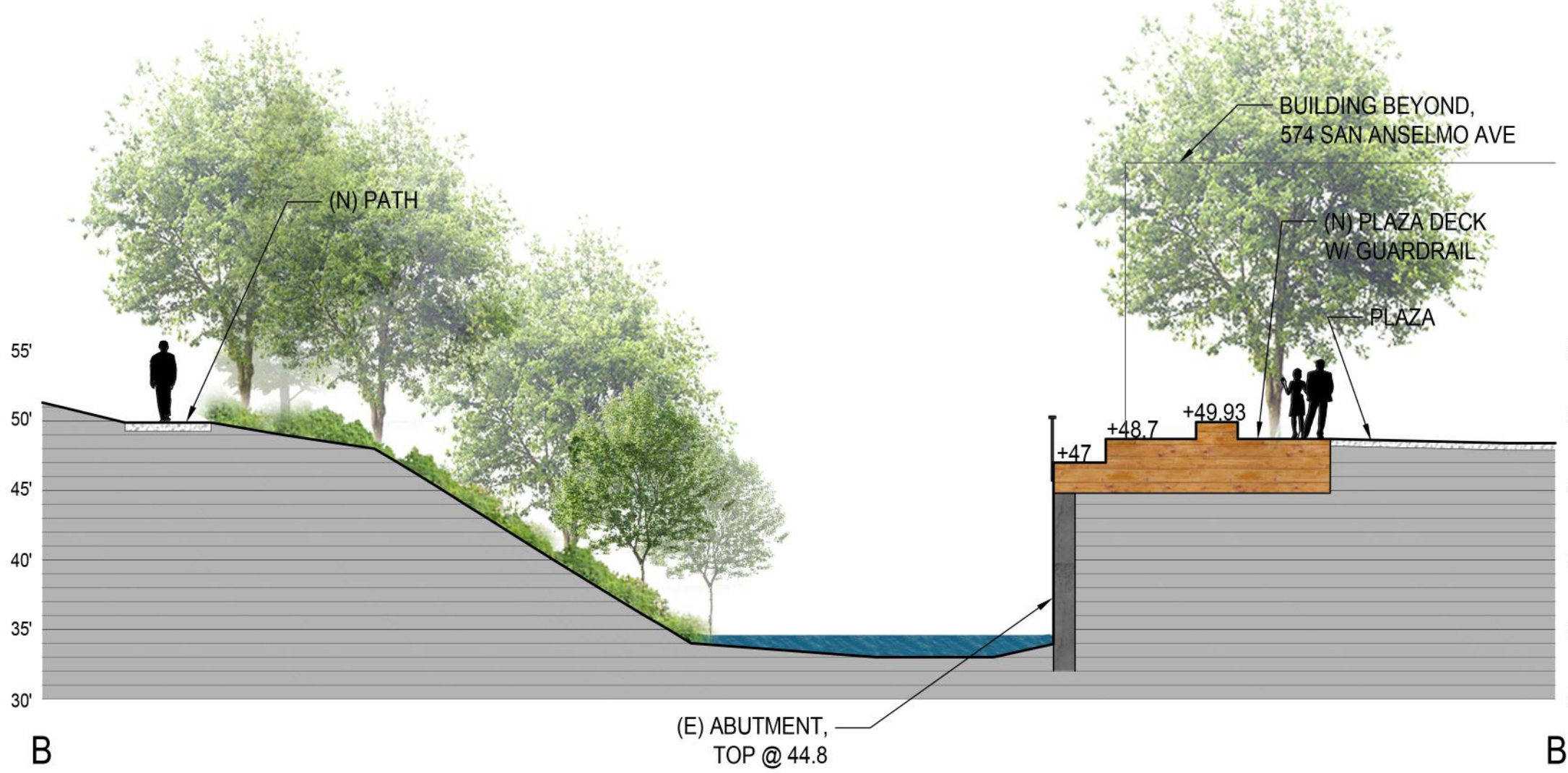




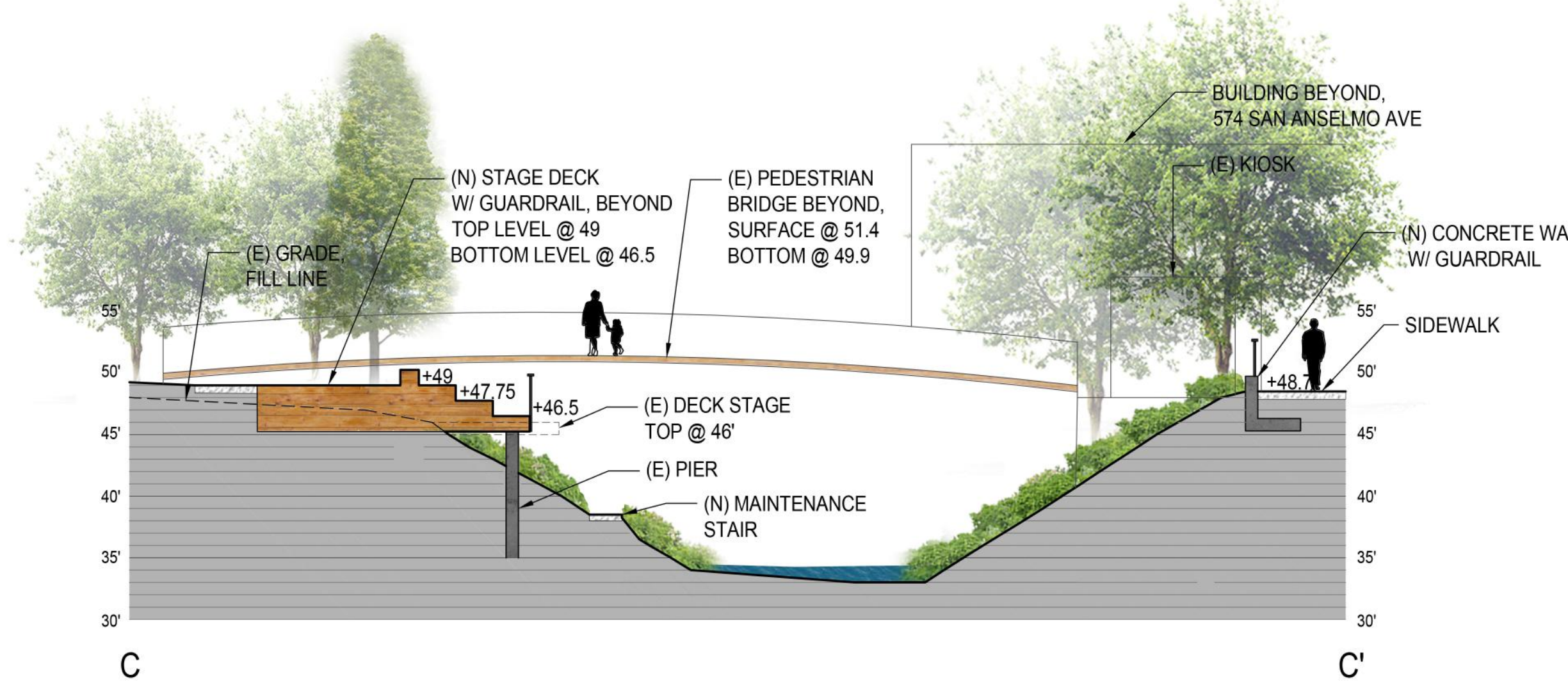
ANNOTATED DESIGN PLAN



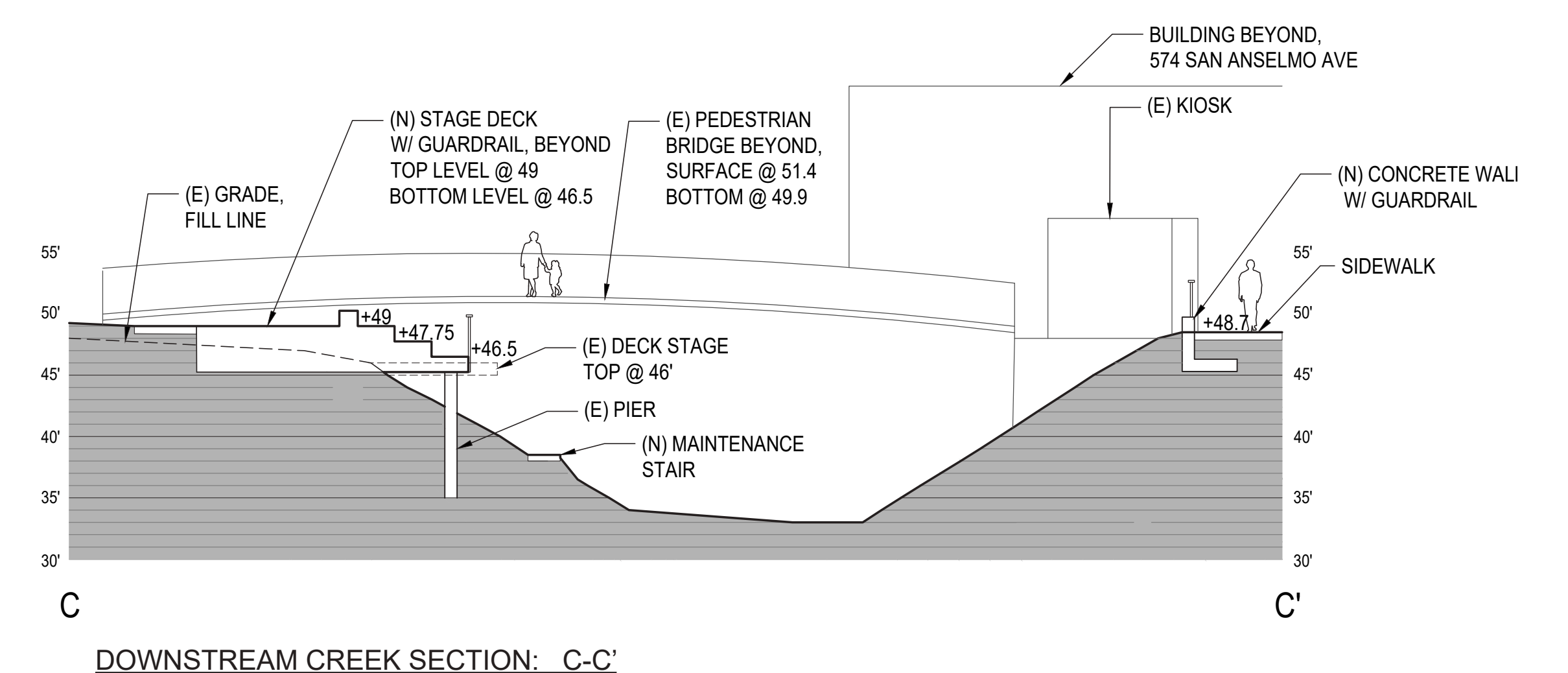
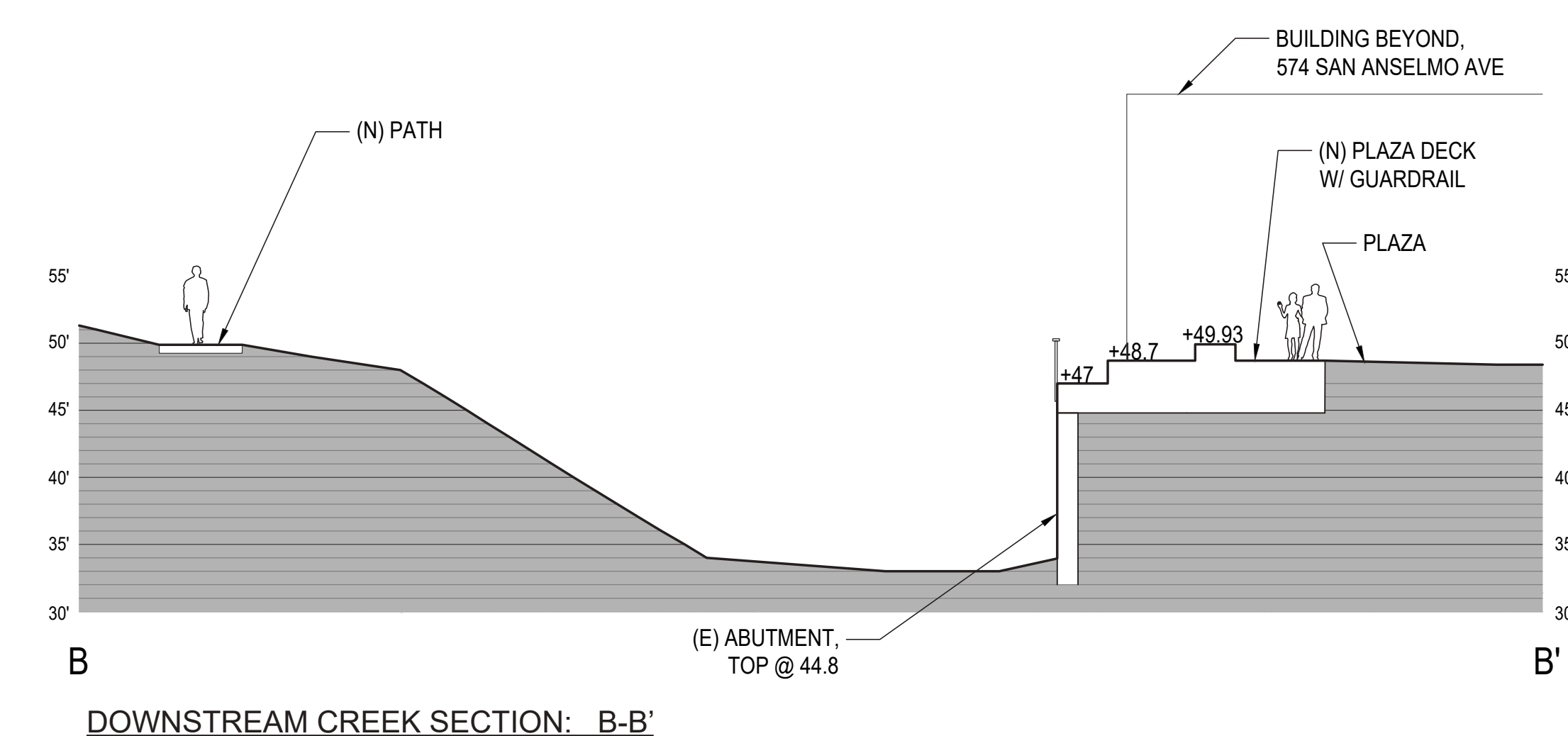
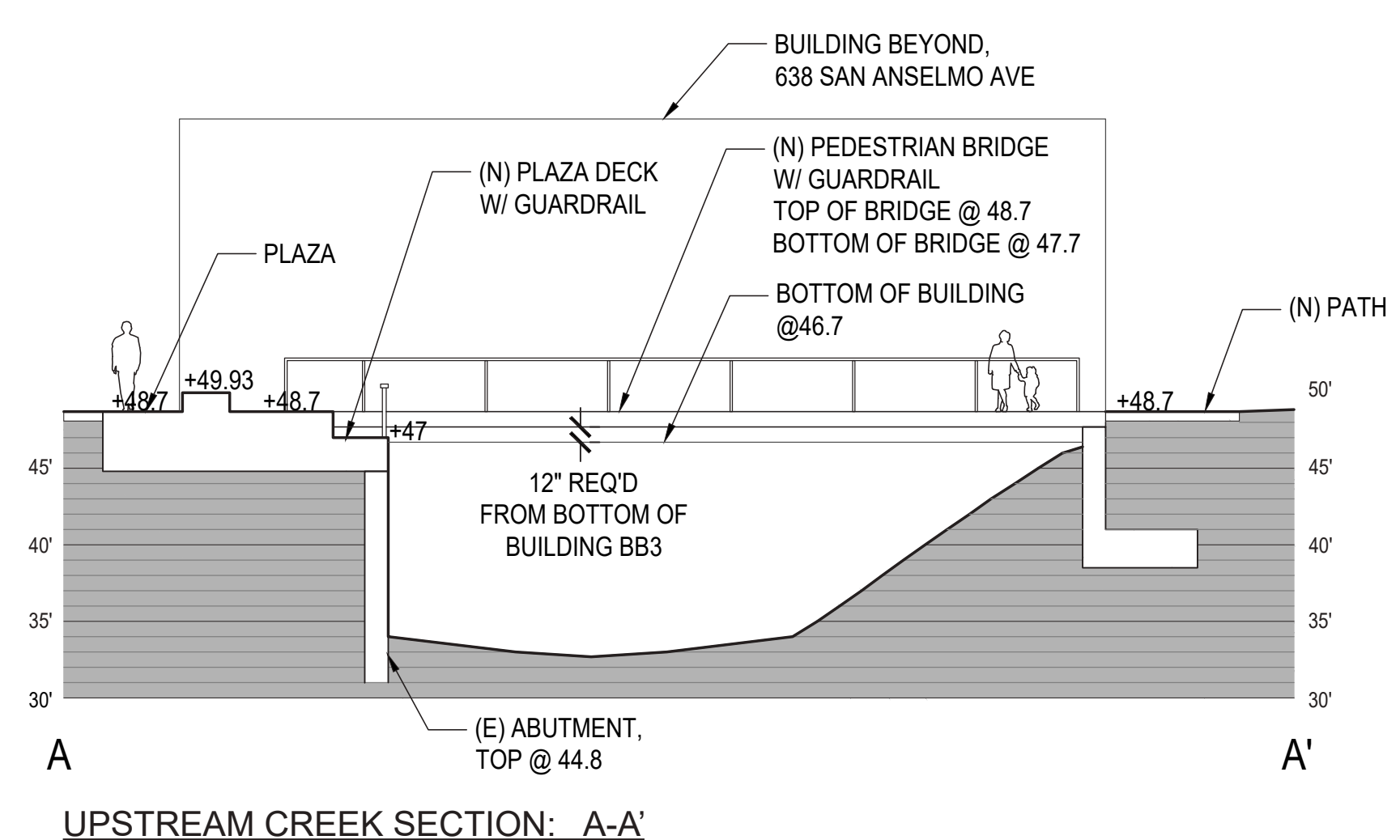
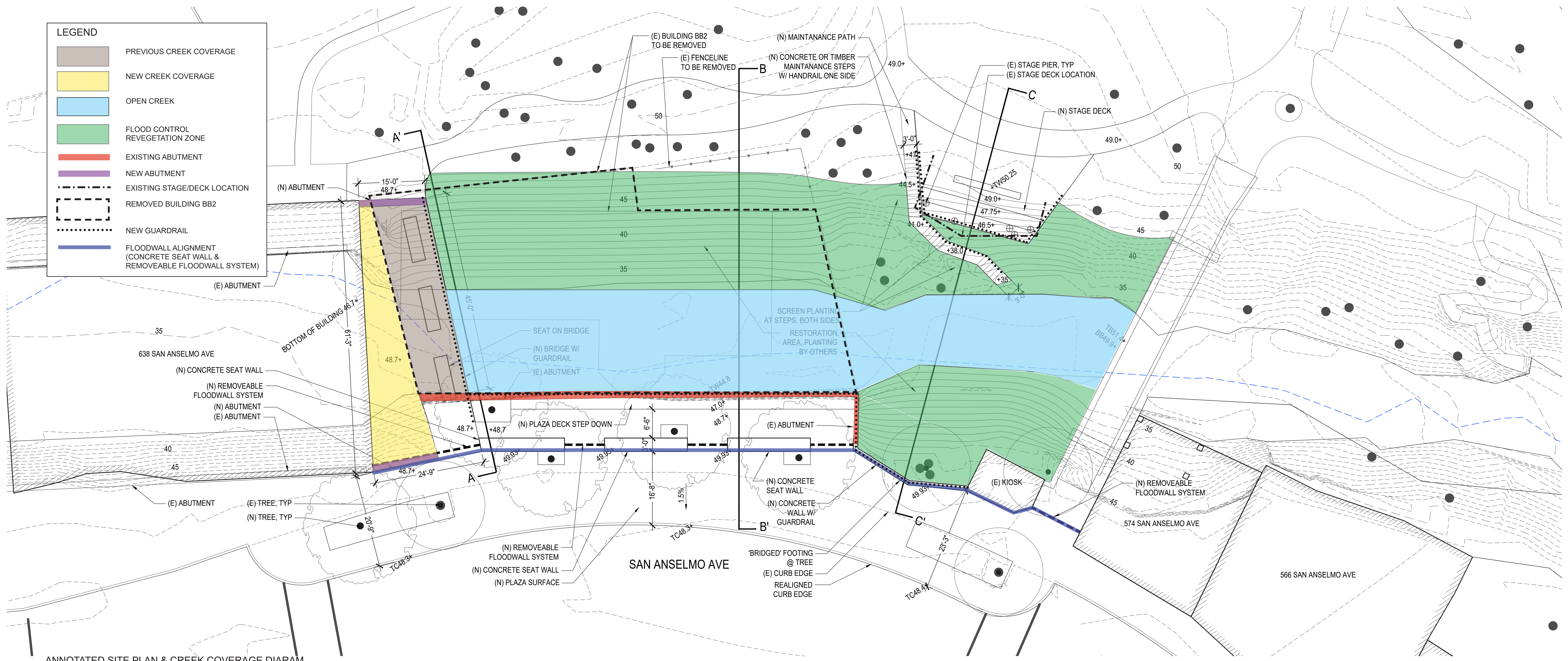
UPSTREAM CREEK SECTION: A-A'

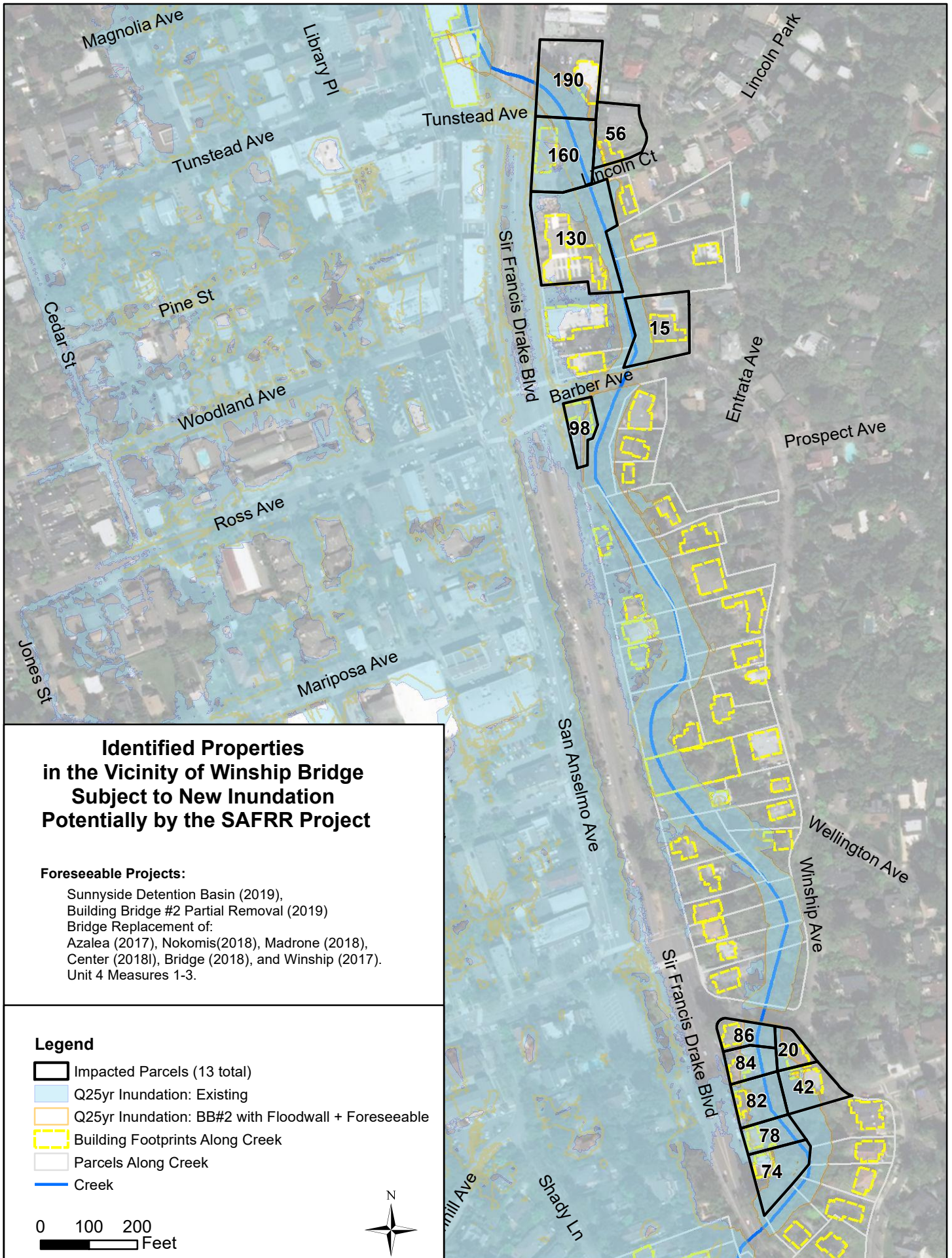


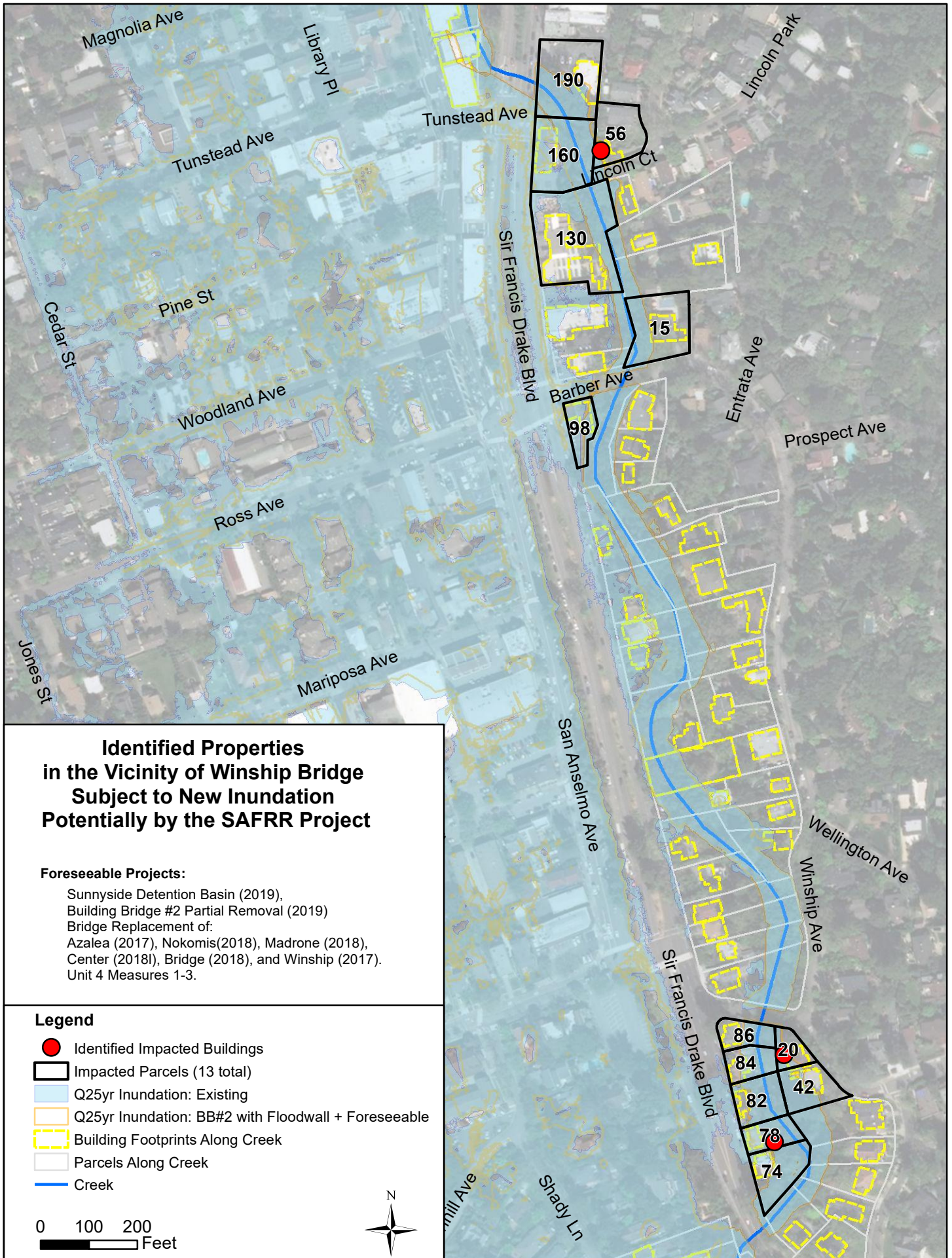
DOWNSTREAM CREEK SECTION: B-B'



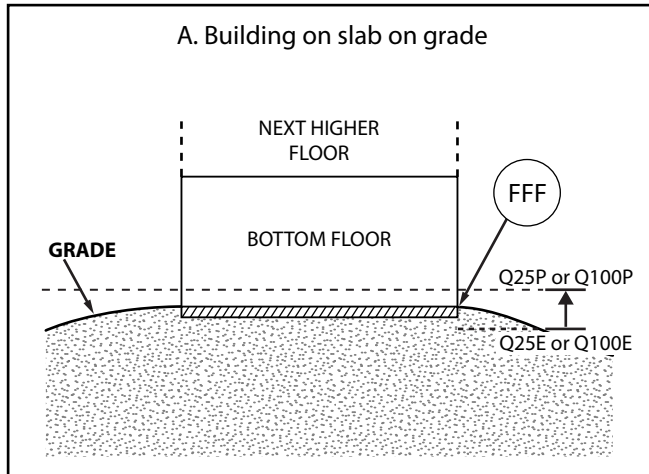
DOWNSTREAM CREEK SECTION: C-C'



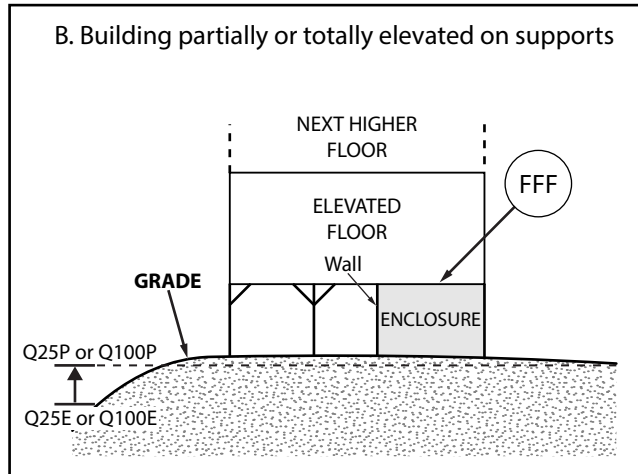




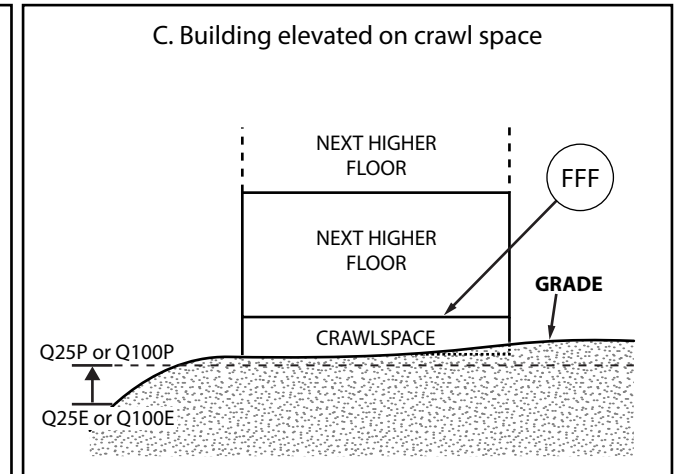
Building Type Diagrams and Corresponding Applicable Properties



56 Lincoln Park (Office), San Anselmo
 20 Winship (Garage), Ross
 78 Sir Francis Drake (Office), Ross



190 Sir Francis Drake, San Anselmo
 160 Sir Francis Drake, San Anselmo
 130 Sir Francis Drake, San Anselmo
 98 Sir Francis Drake, San Anselmo
 86 Sir Francis Drake, Ross
 84 Sir Francis Drake, Ross



82 Sir Francis Drake, Ross
 42 Winship, Ross
 78 Sir Francis Drake (Main), Ross
 74 Sir Francis Drake, Ross
 15 Barber, San Anselmo