

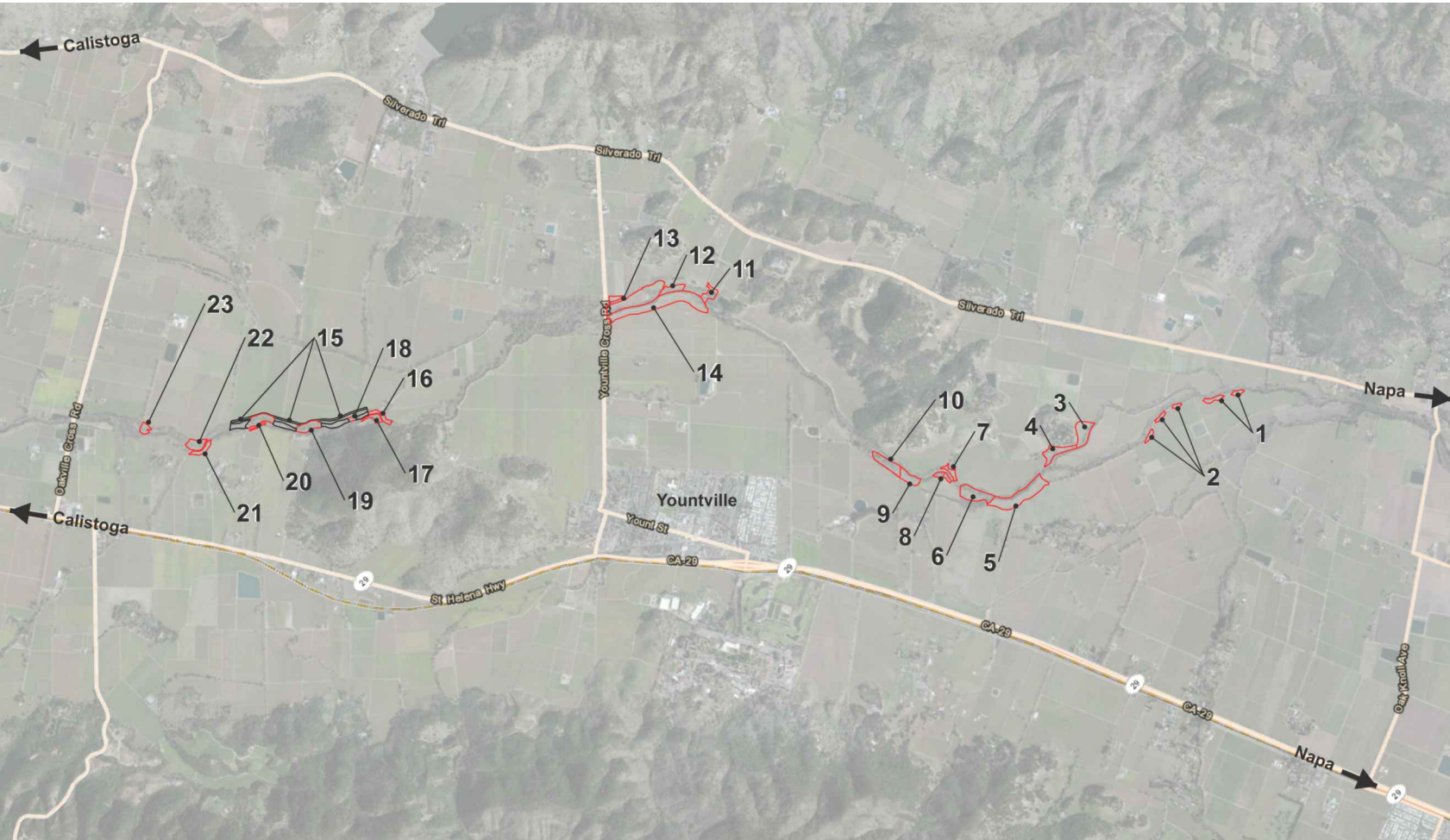
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NAPA COUNTY PUBLIC WORKS

OCTOBER 1, 2013

NAPA RIVER RESTORATION - OAKVILLE TO OAK KNOLL

30% DESIGN

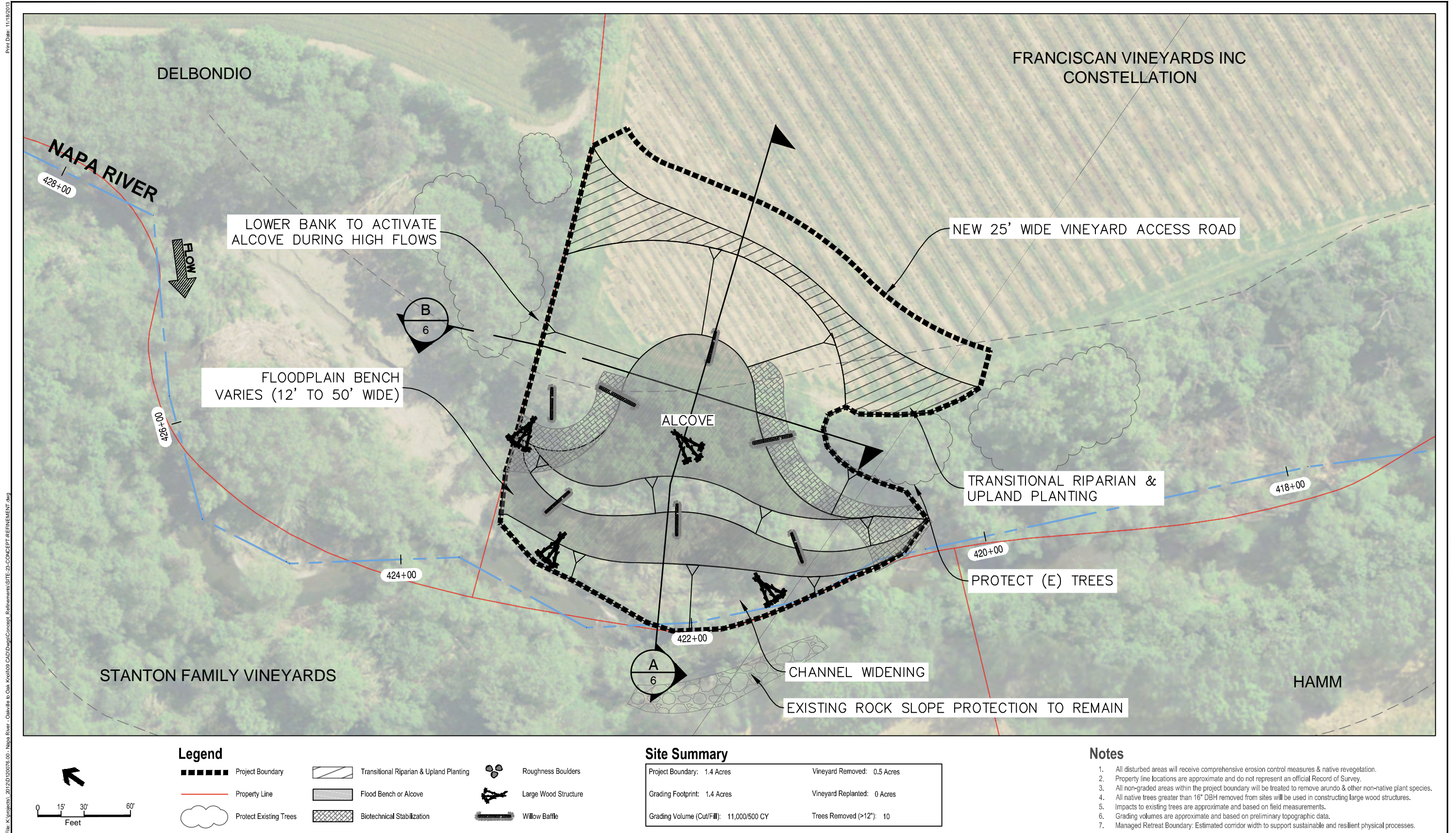


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SHEET	TITLE
1	TITLE SHEET
2	ABBREVIATIONS, LEGEND, & NOTES (NOT USED)
3	GENERAL NOTES (NOT USED)
4	SURVEY CONTROL (NOT USED)
5	SITE 23 PLAN VIEW
6	SITE 23 SECTIONS
7	SITE 22 & 21 PLAN VIEW
8	SITE 22 & 21 SECTIONS
9	SITE 15 MANAGED RETREAT PLAN VIEW
10	SITE 20 PLAN VIEW
11	SITE 19 PLAN VIEW
12	SITE 18 PLAN VIEW
13	SITE 17 & 16 PLAN VIEW
14	SITE 15 MANAGED RETREAT SECTIONS
15	SITE 20 & 19 SECTIONS
16	SITE 18 & 17 SECTIONS
17	SITE 14-11 OVERVIEW
18	SITE 14-11 PLAN VIEW 1
19	SITE 14-11 PLAN VIEW 2
20	SITE 14-11 PLAN VIEW 3
21	SITE 14-11 PLAN VIEW 4
22	SITE 14-11 PLAN VIEW 5
23	SITE 14-11 PLAN VIEW 6

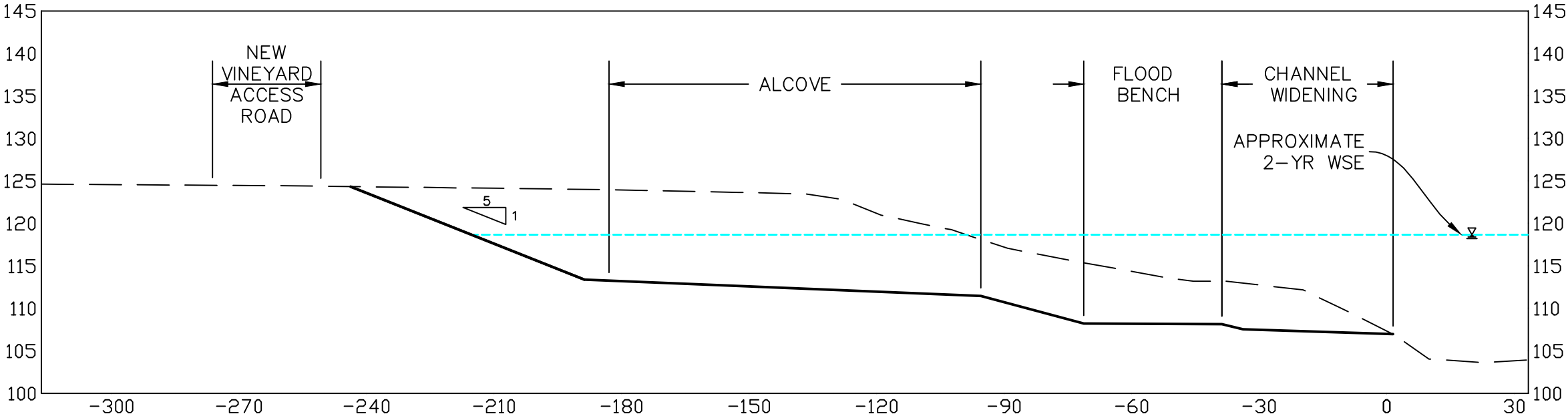
24	SITE 14 & 13 SECTIONS 1
25	SITE 14 & 13 SECTIONS 2
26	SITE 14, 12, & 11 SECTIONS
27	SITE 10 PLAN VIEW
28	SITE 10 & 9 SECTIONS
29	SITE 9 & 8 PLAN VIEW
30	SITE 6 & 5 OVERVIEW
31	SITE 6 & 5 PLAN VIEW
32	SITE 5 PLAN VIEW
33	SITE 9 & 6 SECTIONS
34	SITE 5 SECTIONS
35	SITE 7 PLAN VIEW
36	SITE 7 SECTIONS
37	SITE 4 PLAN VIEW
38	SITE 4 SECTIONS
39	SITE 3 PLAN VIEW
40	SITE 3 SECTION
41	SITE 2 PLAN VIEW
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44	TYPICAL DETAILS 1
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48	MANAGED RETREAT



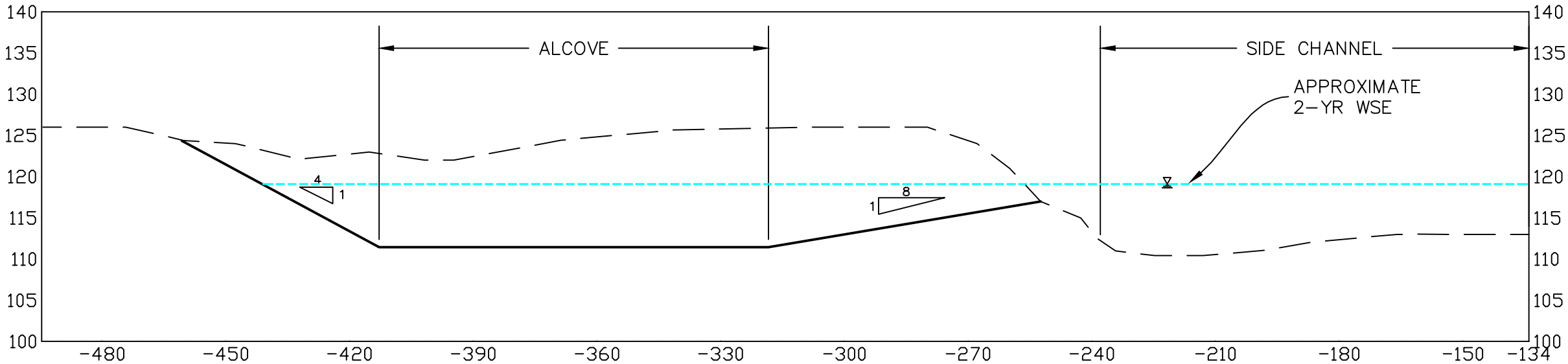
PROJECT AREA RESTORATION SITES (NTS)
OAKVILLE CROSS ROAD TO OAK KNOLL AVE



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A SITE 23 CHANNEL WIDENING, FLOOD BENCH, ALCOVE, & UPLAND GRADING

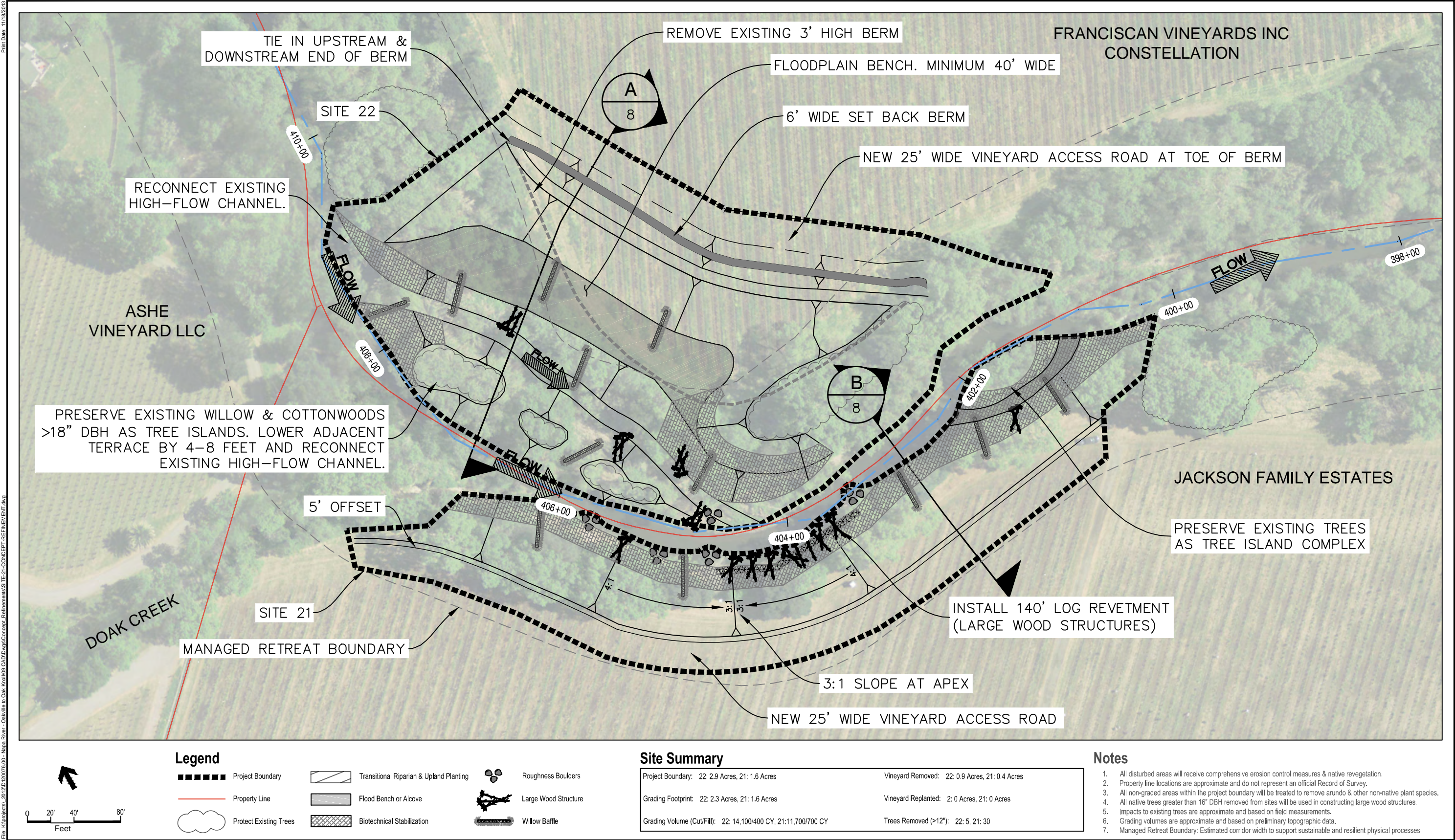


B SITE 23 UPLAND GRADING & ALCOVE



Notes

1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.



SOURCE: 2011 Napa County Aerial



Napa River Restoration - Oakville to Oak Knoll

Sheet 7

30% Design

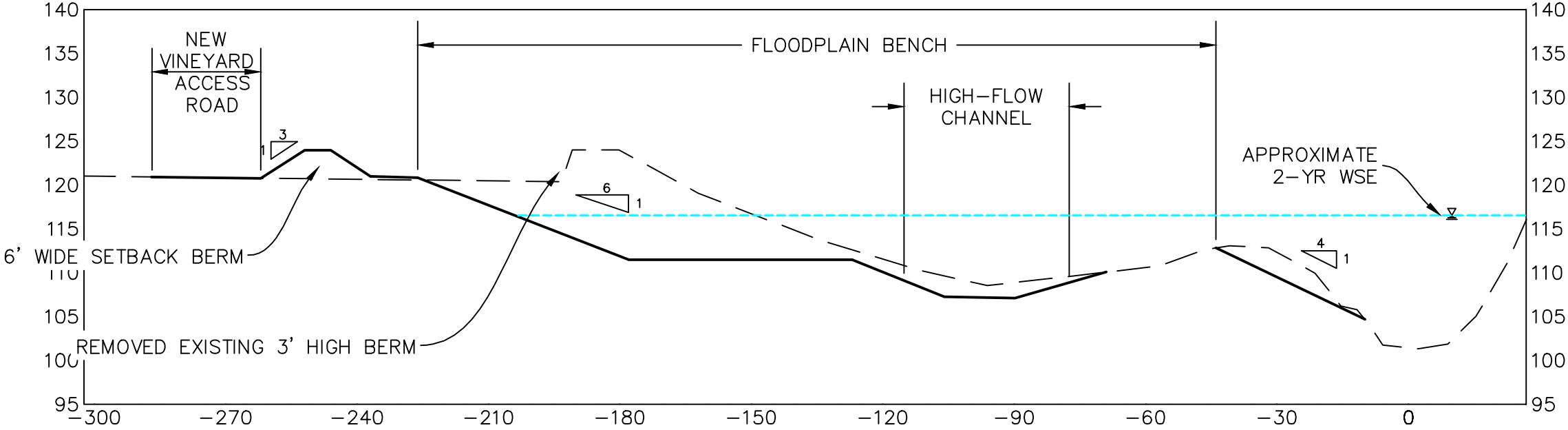
Sites 22 & 21 Plan View

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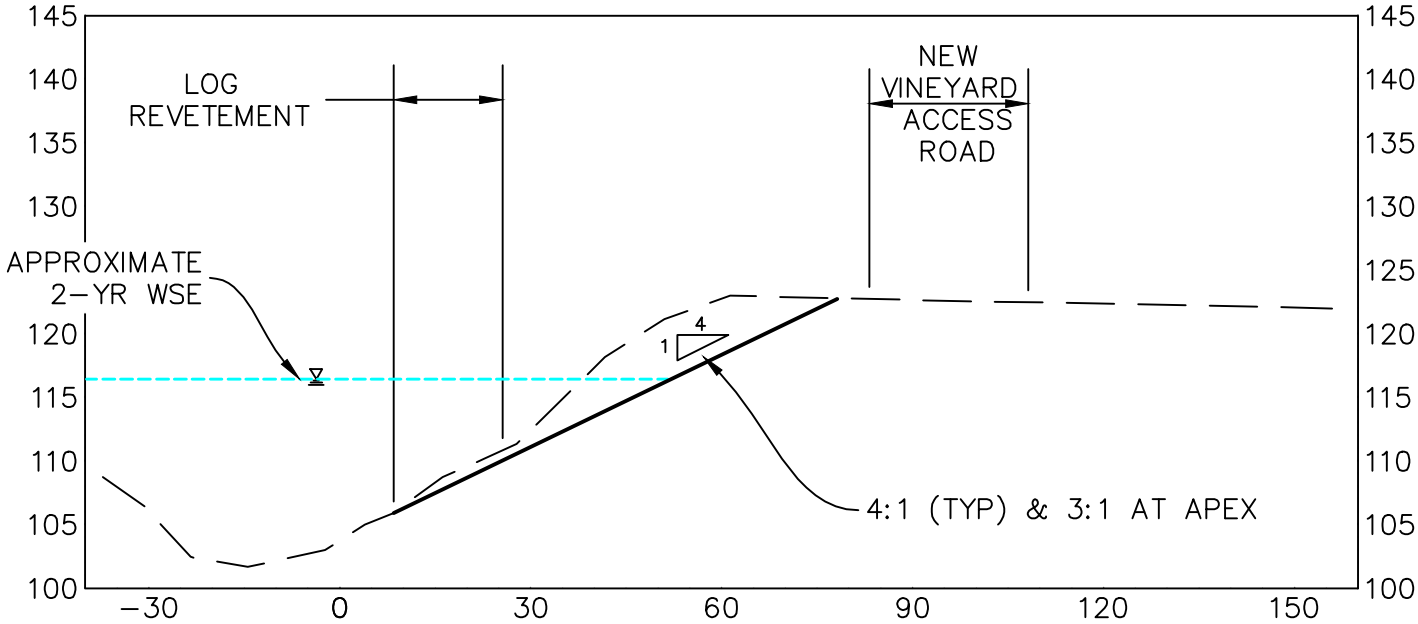
Corps file 2014-00332N Oakville to Oak Knoll

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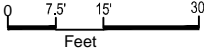
A SITE 22 TREE ISLANDS, HIGH-FLOW CHANNEL, BENCH, UPLAND GRADING & ACCESS ROAD

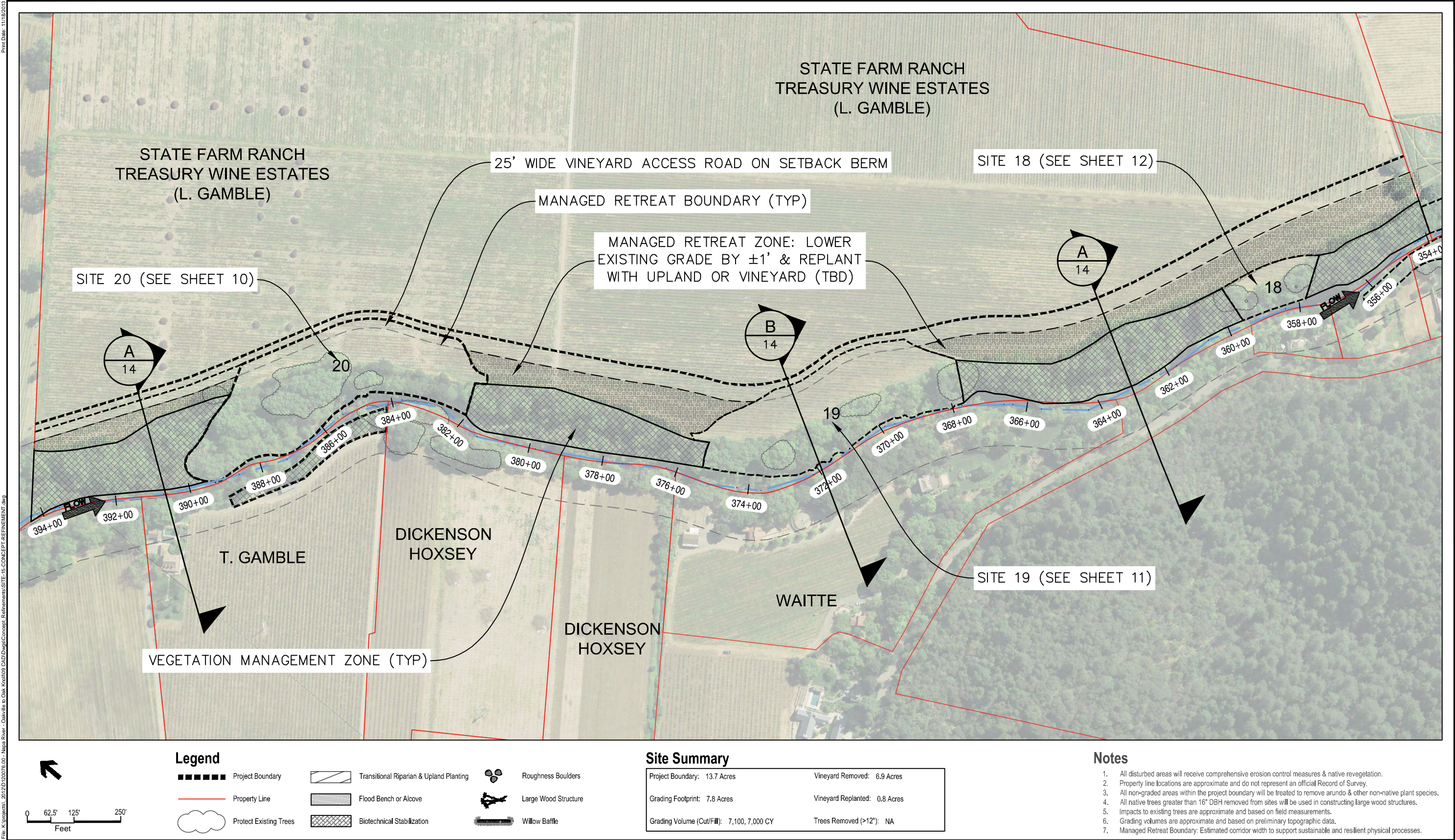


B SITE 21 UPLAND GRADING & ACCESS ROAD

Notes

1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.

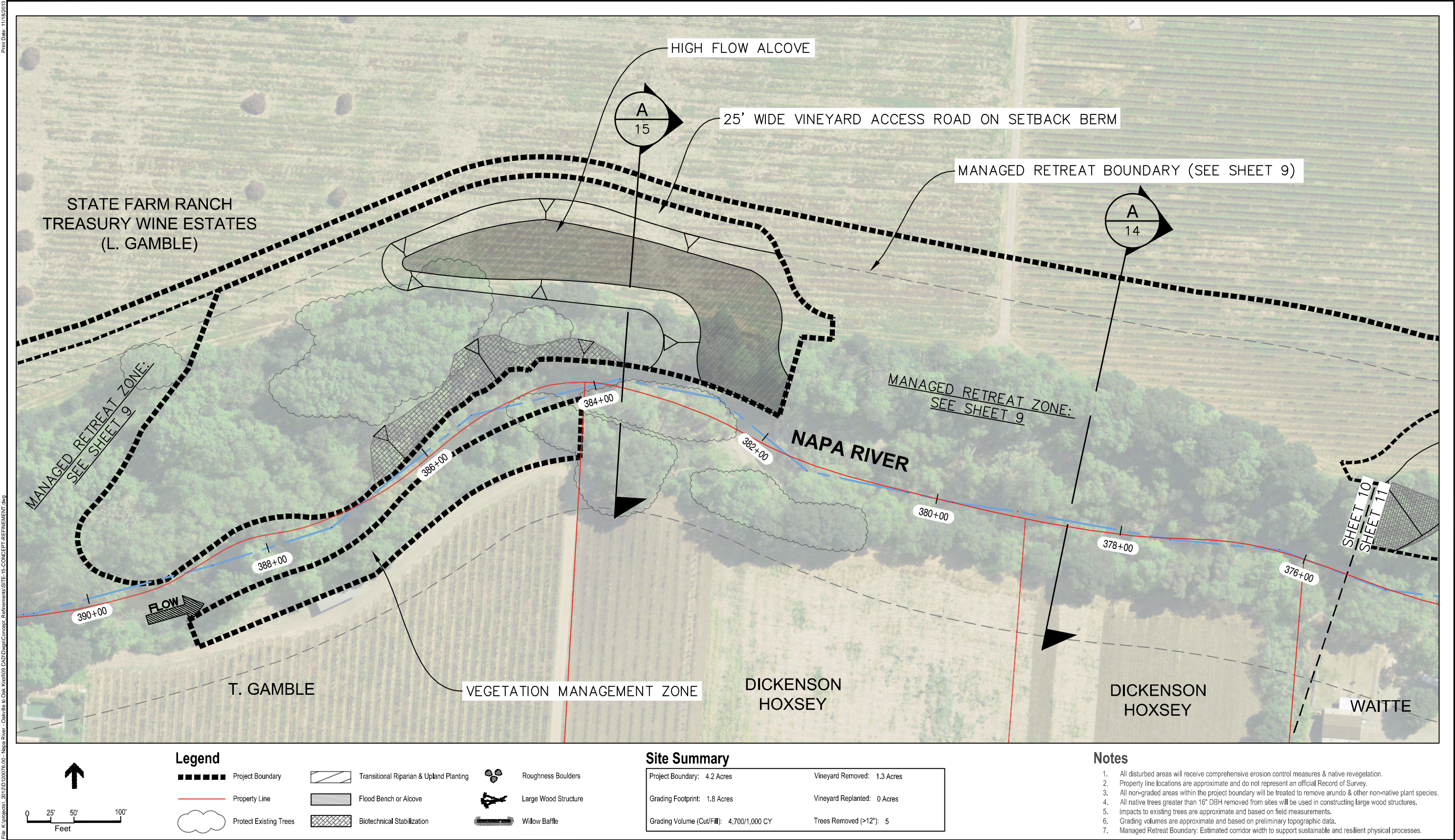




SOURCE: 2011 Napa County Aerial



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Corps file 2014-00332N Oakville to Oak Knoll
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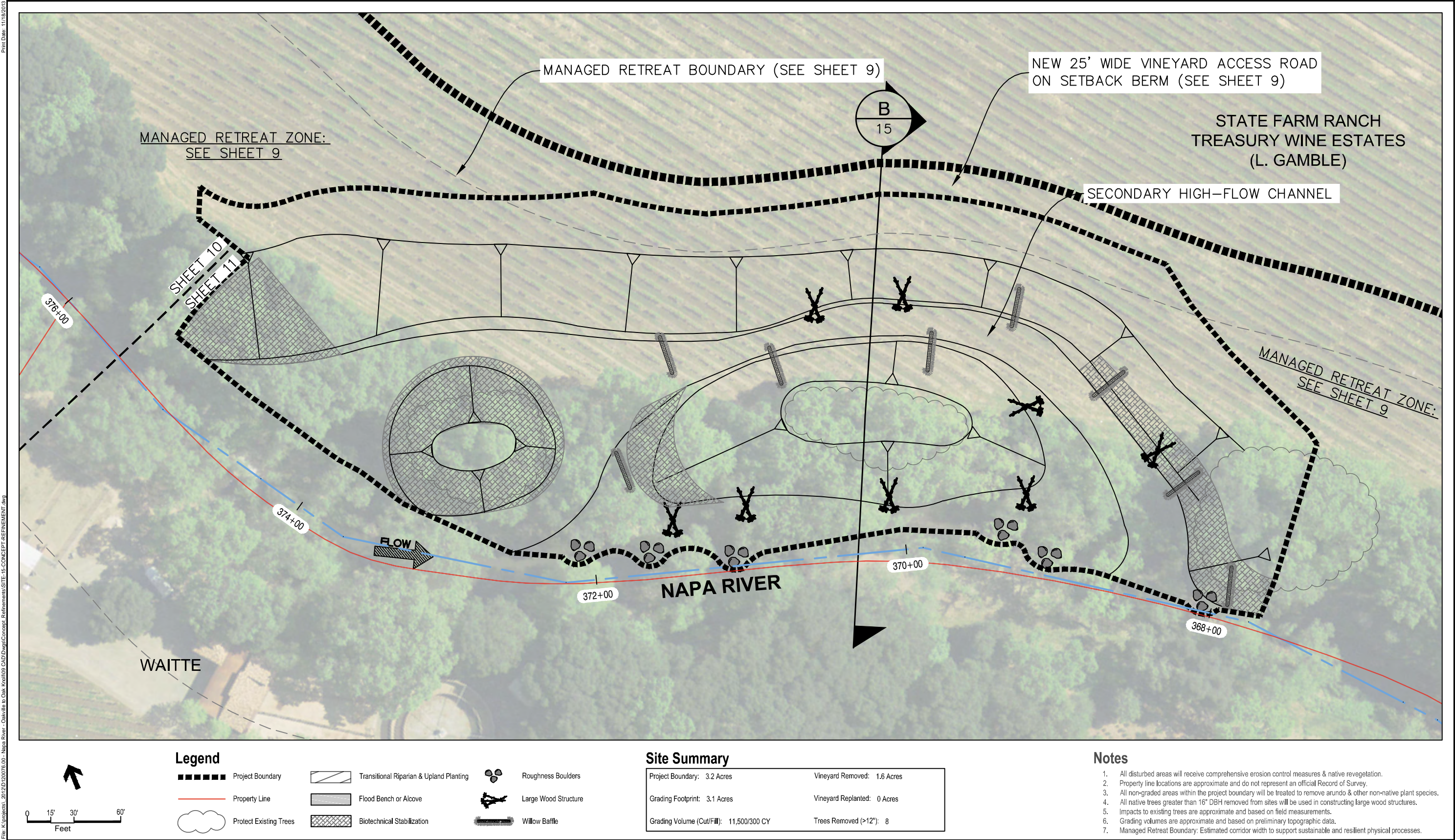
SOURCE: 2011 Napa County Aerial



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Napa River Restoration - Oakville to Oak Knoll

Sheet 10
30% Design
Site 20 Plan View



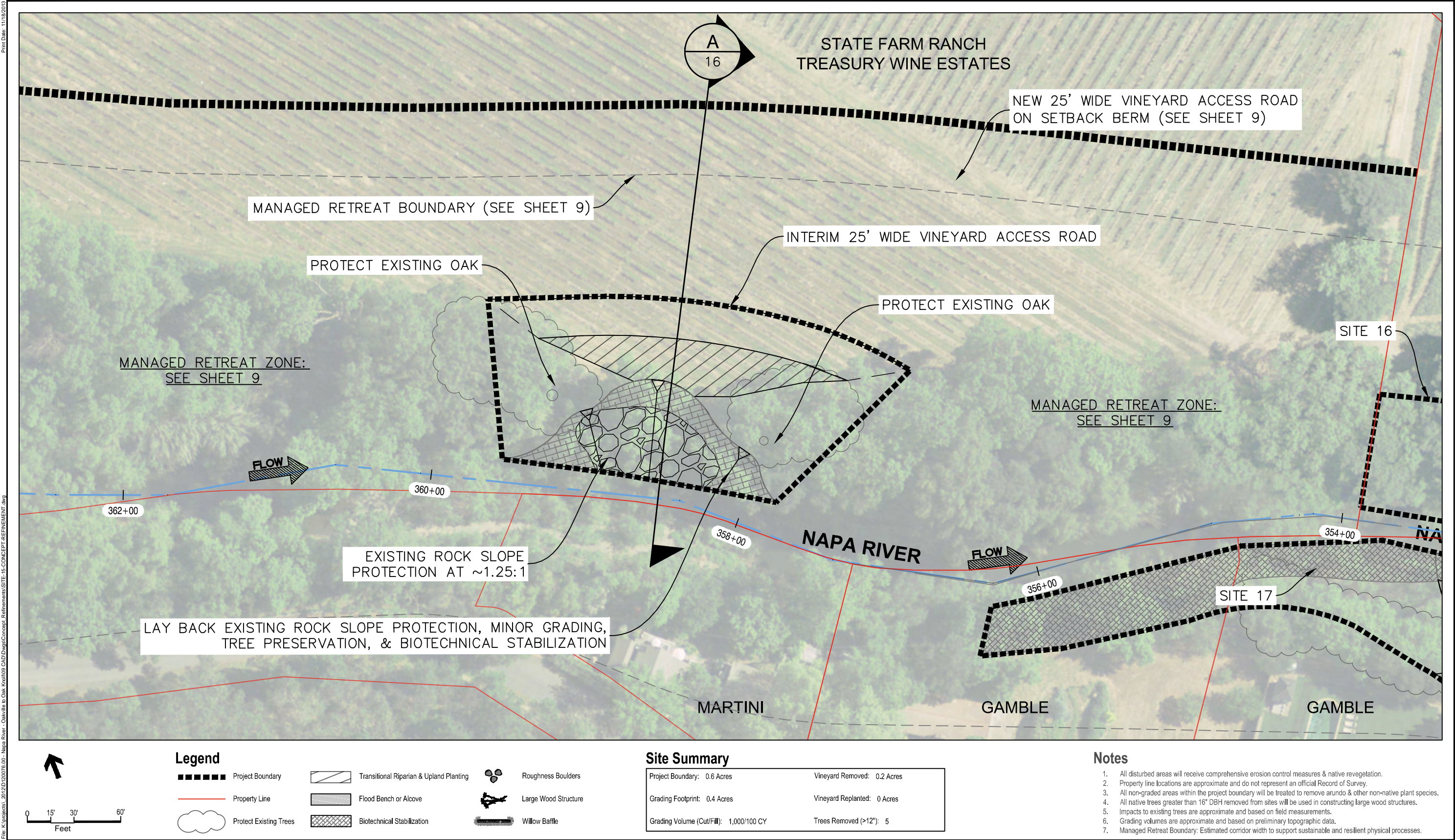
SOURCE: 2011 Napa County Aerial



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Napa River Restoration - Oakville to Oak Knoll

Sheet 11
30% Design
Site 19 Plan View



SOURCE: 2011 Napa County Aerial

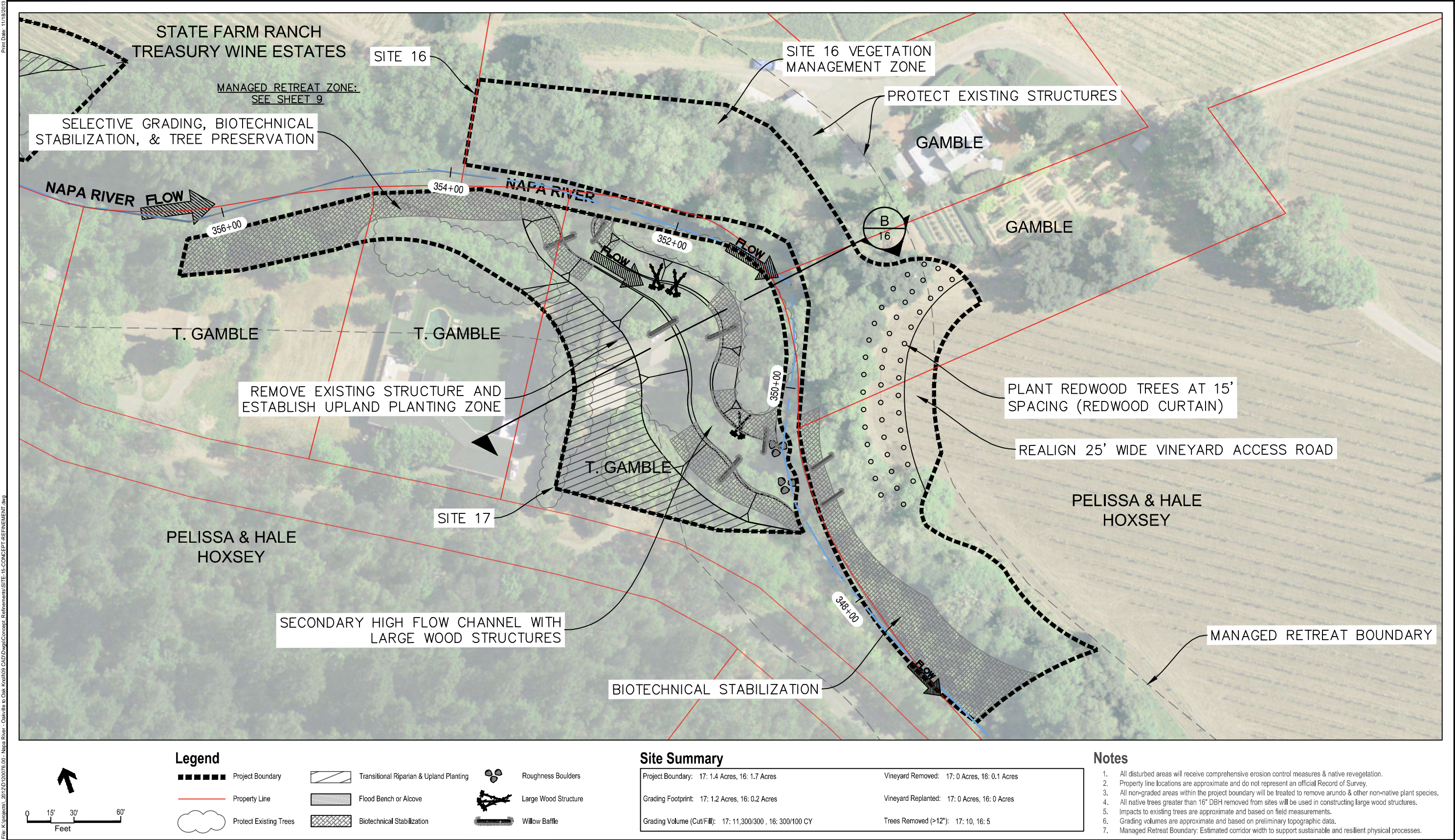


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Napa River Restoration - Oakville to Oak Knoll

Sheet 12

30% Design
Site 18 Plan View



SOURCE: 2011 Napa County Aerial



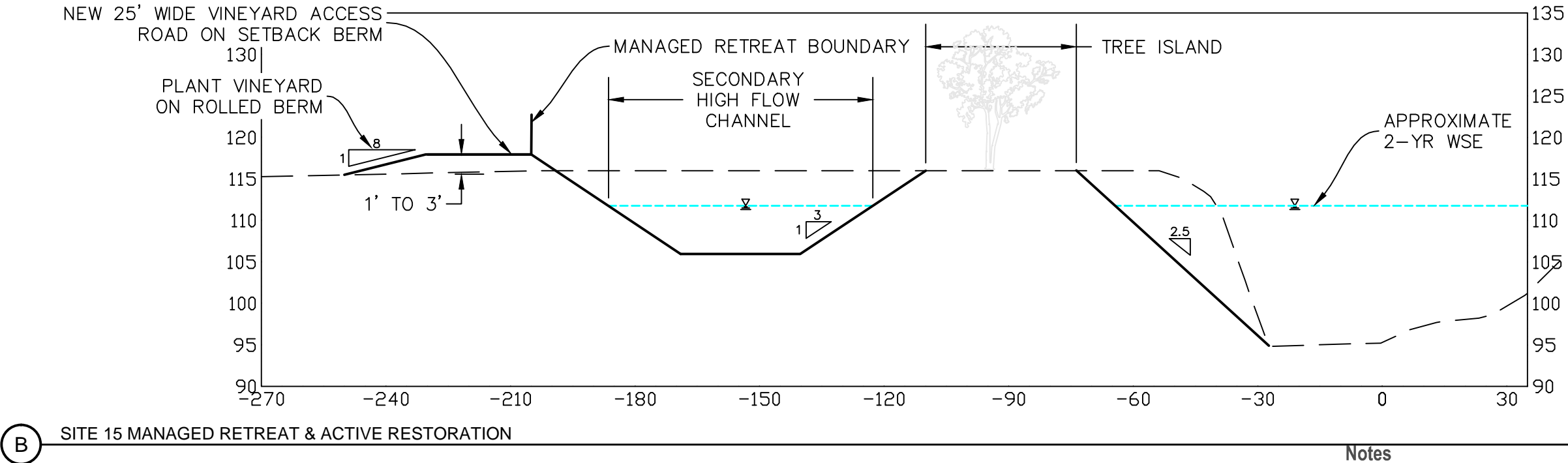
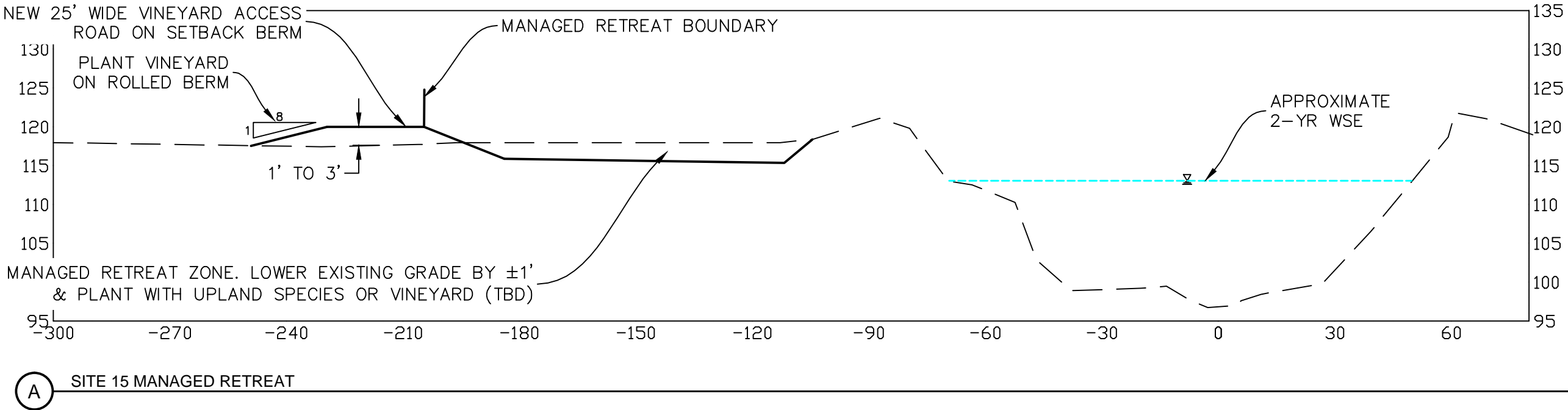
30% DESIGN: NOT FOR CONSTRUCTION
Corps file 2014-00332N Oakville to Oak Knoll
Public Notice January 12, 2015

Napa River Restoration - Oakville to Oak Knoll

Sheet 13

30% Design
Site 17 & 16 Plan View

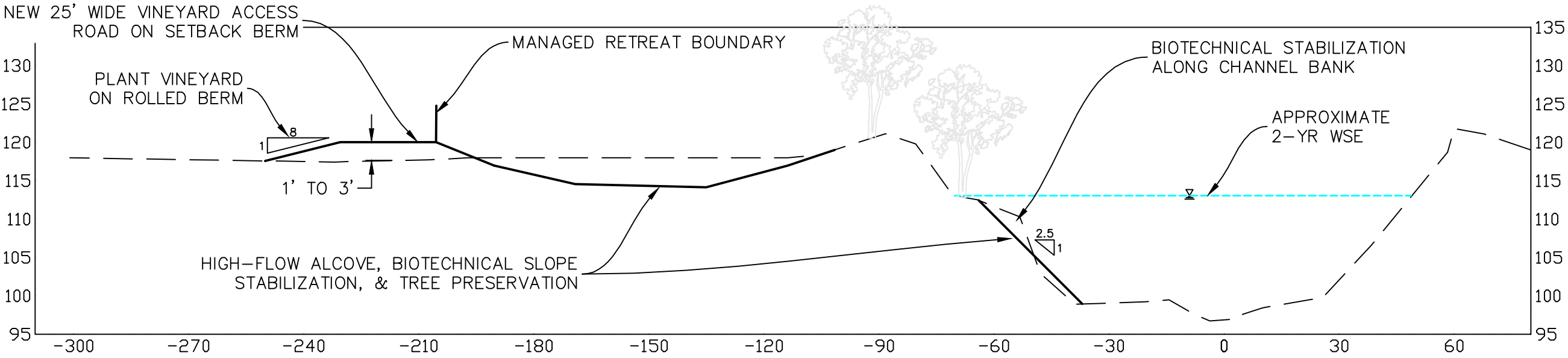
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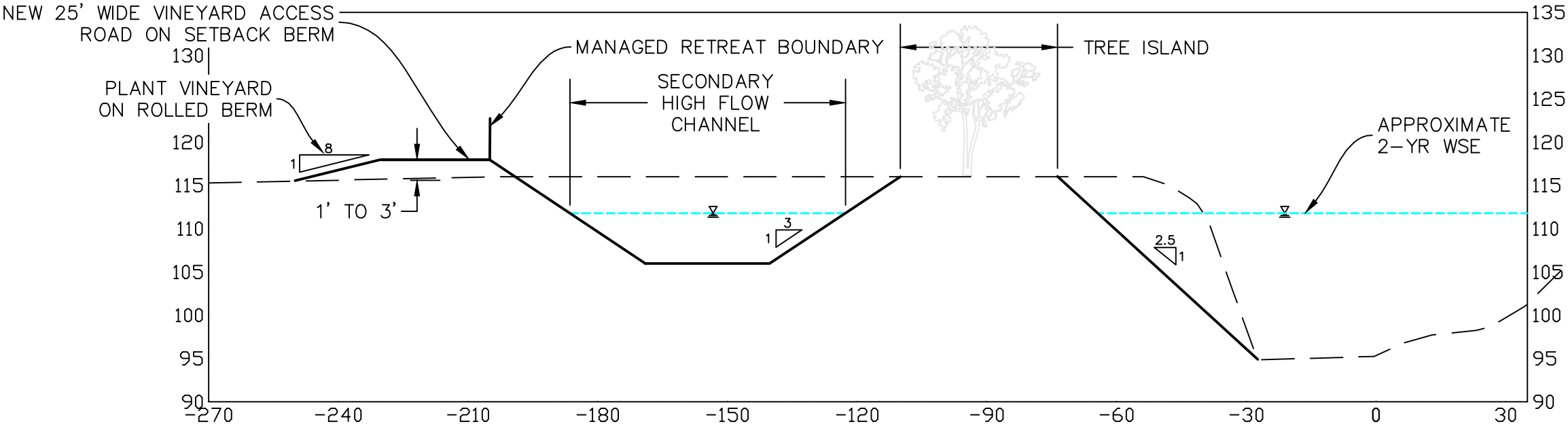
- Notes
1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.

0 7.5' 15' 30'
Feet

Print Date: 11/19/2013
File: K:\projects\2012\20076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-15-CONCEPT-REFINEMENT.dwg



A SITE 20 SELECTIVE GRADING, TREE PRESERVATION & BIOTECHNICAL STABILIZATION



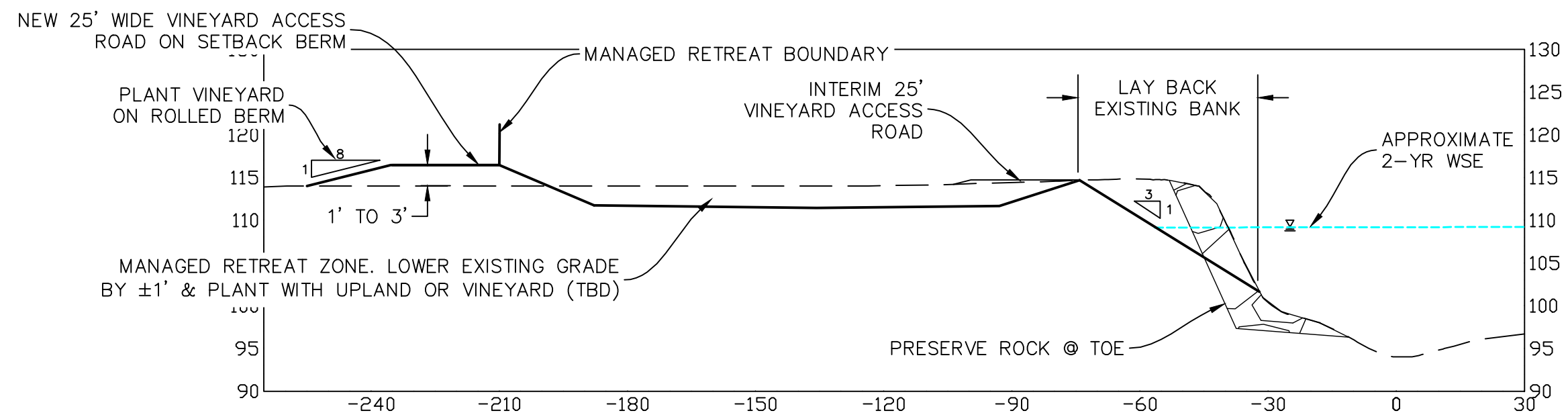
B SITE 19 SECONDARY HIGH FLOW CHANNEL & BIOTECHNICAL STABILIZATION

Notes

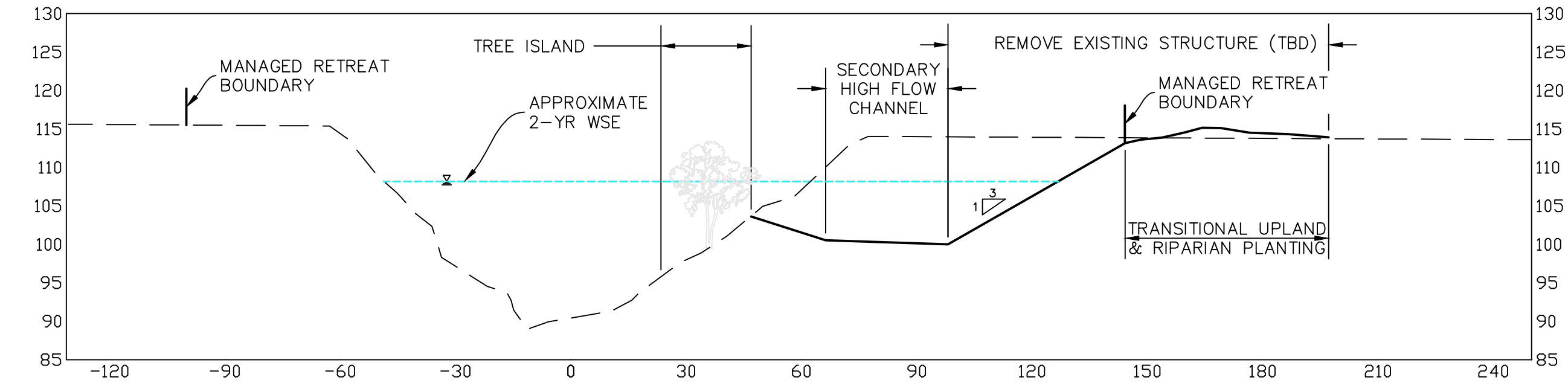
- 1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
- 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.



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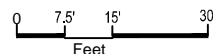
A SITE 18 GRADING & BIOTECHNICAL STABILIZATION

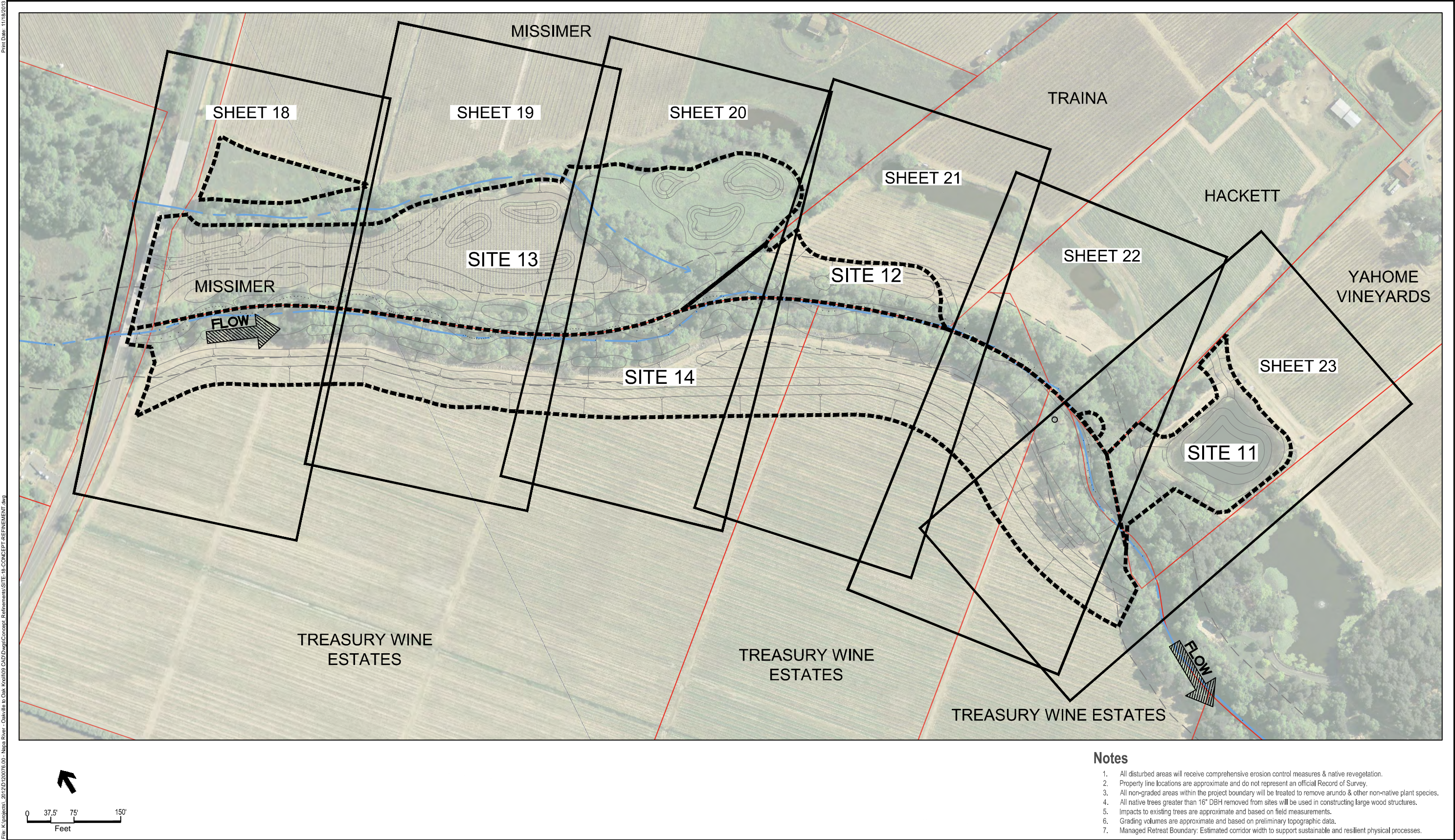


B SITE 17 UPLAND PLANTING, SECONDARY CHANNEL, STRUCTURE REMOVAL, & TREE ISLAND

Notes

1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.





SOURCE: 2011 Napa County Aerial



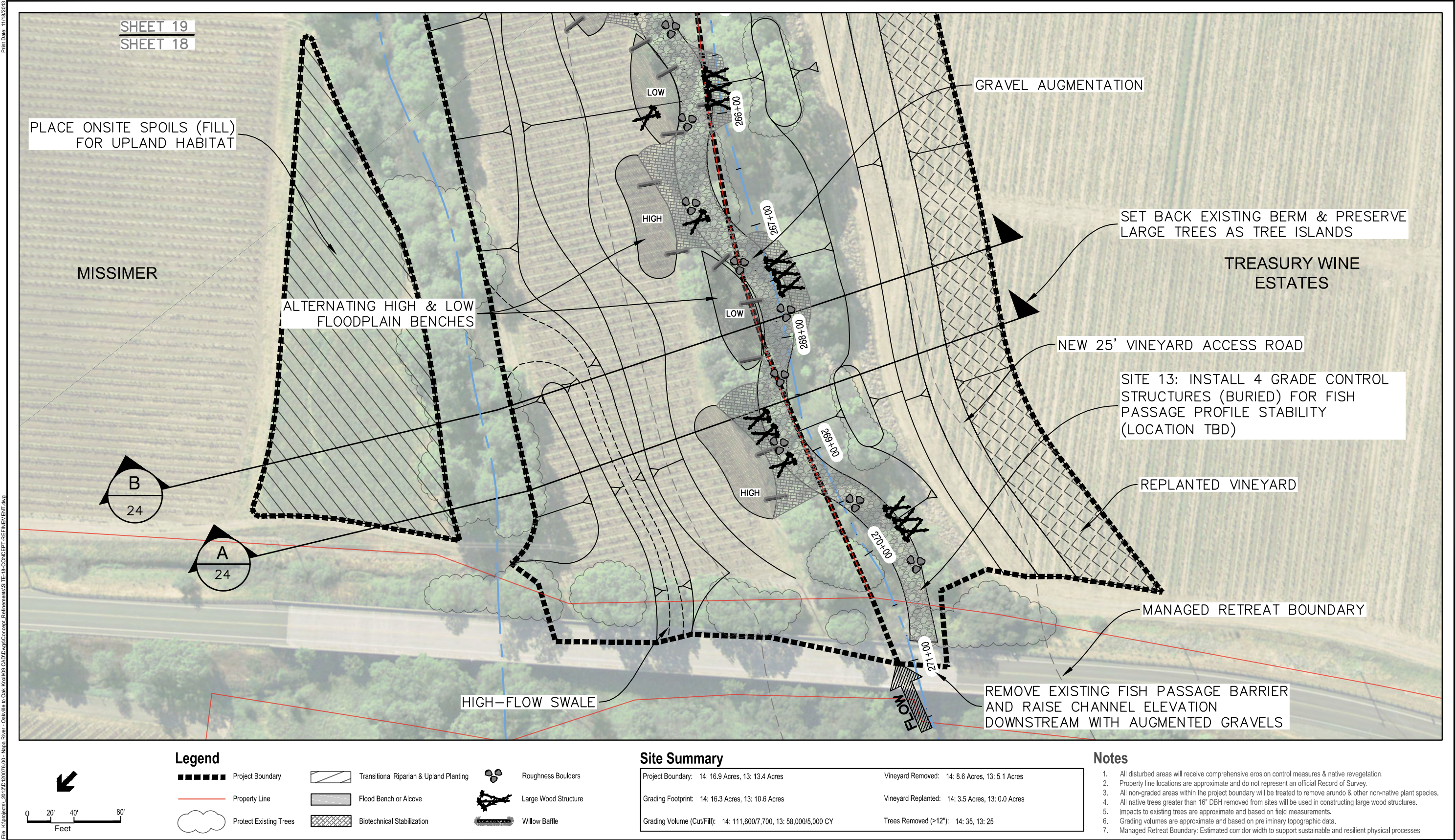
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Napa River Restoration - Oakville to Oak Knoll

Sheet 17

30% Design

Site 14-11 Overview



SOURCE: 2011 Napa County Aerial



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Napa River Restoration - Oakville to Oak Knoll

Sheet 18

30% Design

Site 14-11 Plan View 1

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Legend

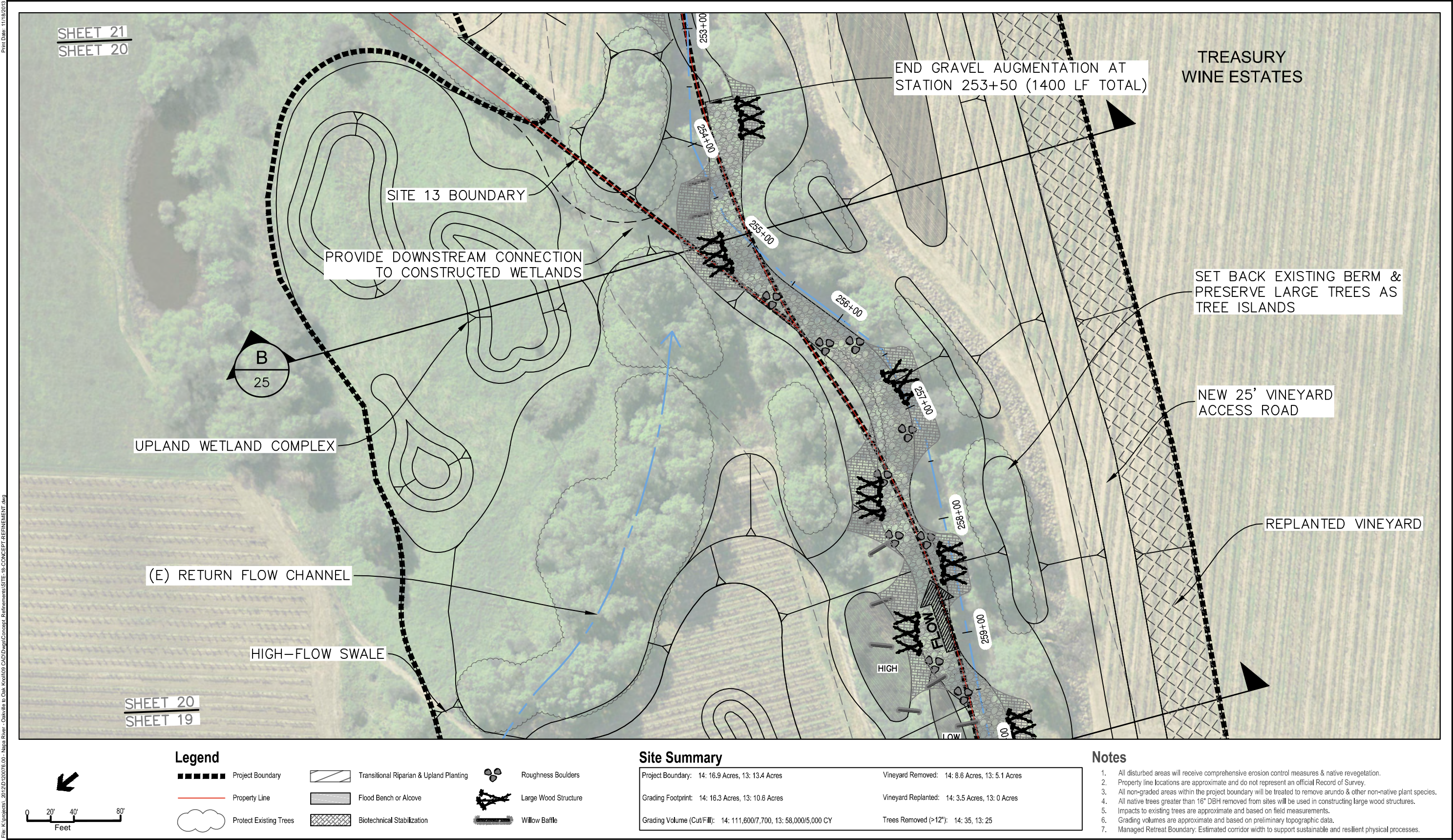
- | | | |
|--------------------------|---|----------------------|
| ■■■■■ Project Boundary | Transitional Riparian & Upland Planting | Roughness Boulders |
| — Property Line | Flood Bench or Alcove | Large Wood Structure |
| ☁ Protect Existing Trees | Biotechnical Stabilization | Willow Baffle |

Site Summary

Project Boundary:	14: 16.9 Acres, 13: 13.4 Acres	Vineyard Removed:	14: 8.6 Acres, 13: 5.1 Acres
Grading Footprint:	14: 16.3 Acres, 13: 10.6 Acres	Vineyard Replanted:	14: 3.5 Acres, 13: 0.0 Acres
Grading Volume (Cut/Fill):	14: 111,600/7,700, 13: 58,000/5,000 CY	Trees Removed (>12"):	14: 35, 13: 25

Notes

1. All disturbed areas will receive comprehensive erosion control measures & native revegetation.
2. Property line locations are approximate and do not represent an official Record of Survey.
3. All non-graded areas within the project boundary will be treated to remove arundo & other non-native plant species.
4. All native trees greater than 16" DBH removed from sites will be used in constructing large wood structures.
5. Impacts to existing trees are approximate and based on field measurements.
6. Grading volumes are approximate and based on preliminary topographic data.
7. Managed Retreat Boundary: Estimated corridor width to support sustainable and resilient physical processes.



SOURCE: 2011 Napa County Aerial

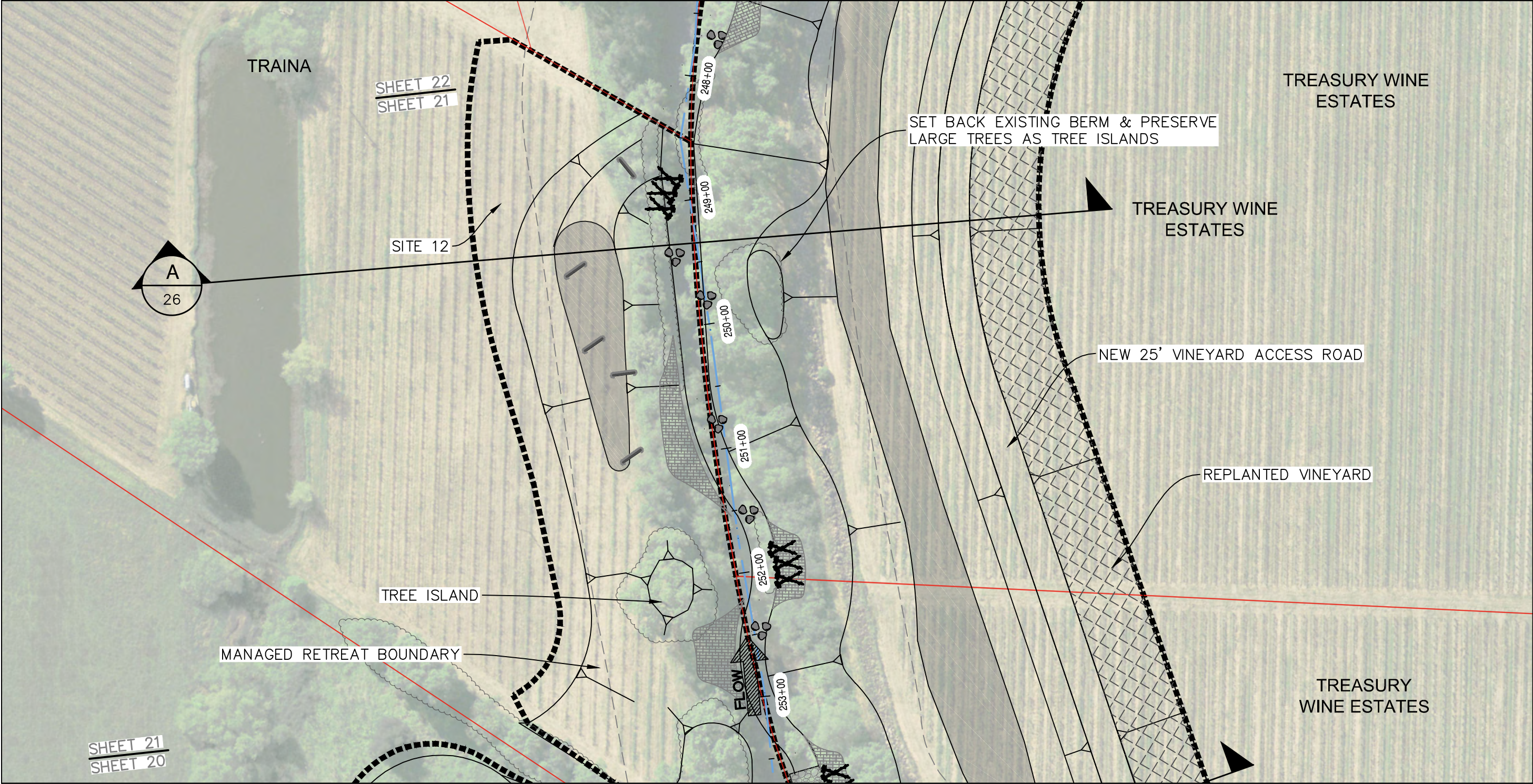


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Napa River Restoration - Oakville to Oak Knoll

Sheet 20
30% Design
Site 14-11 Plan View 3

Print Date: 11/19/2013
File: K:\projects\2012\20076-00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-18-CONCEPT-REFINEMENT.dwg



Legend

- | | | |
|------------------------|---|----------------------|
| Project Boundary | Transitional Riparian & Upland Planting | Roughness Boulders |
| Property Line | Flood Bench or Alcove | Large Wood Structure |
| Protect Existing Trees | Biotechnical Stabilization | Willow Baffle |

Site Summary

Project Boundary:	14: 16.9 Acres, 12: 2.4 Acres	Vineyard Removed:	14: 8.6 Acres, 12: 1.2 Acres
Grading Footprint:	14: 16.3 Acres, 12: 2.0 Acres	Vineyard Replanted:	14: 3.5 Acres, 12: 0.0 Acres
Grading Volume (Cut/Fill):	14: 111,600/7,700, 12:13,300/4,100 CY	Trees Removed (>12"):	14: 35, 12: 5

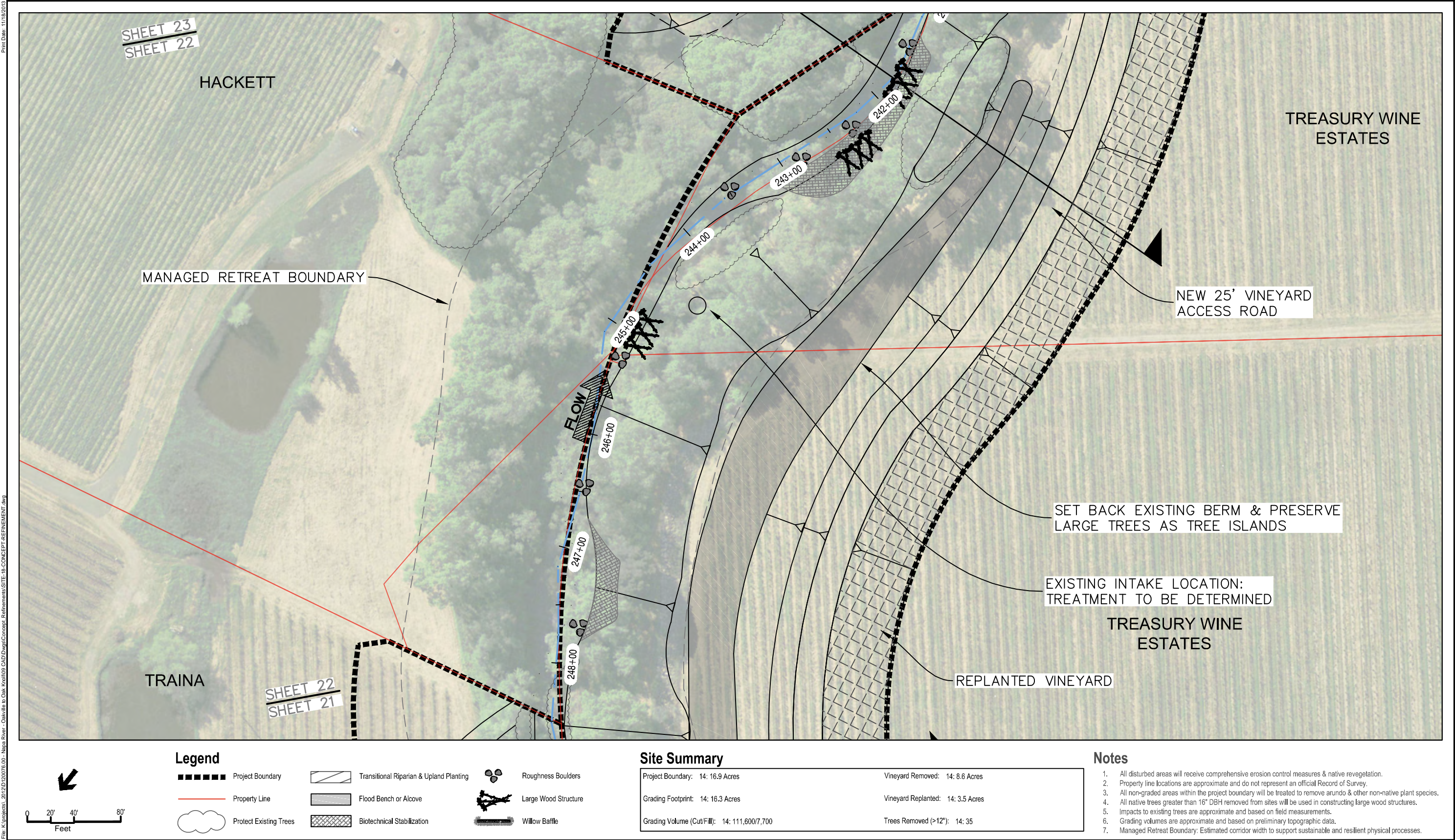
Notes

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6. Grading volumes are approximate and based on preliminary topographic data.
7. Managed Retreat Boundary: Estimated corridor width to support sustainable and resilient physical processes.

SOURCE: 2011 Napa County Aerial



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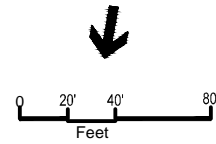
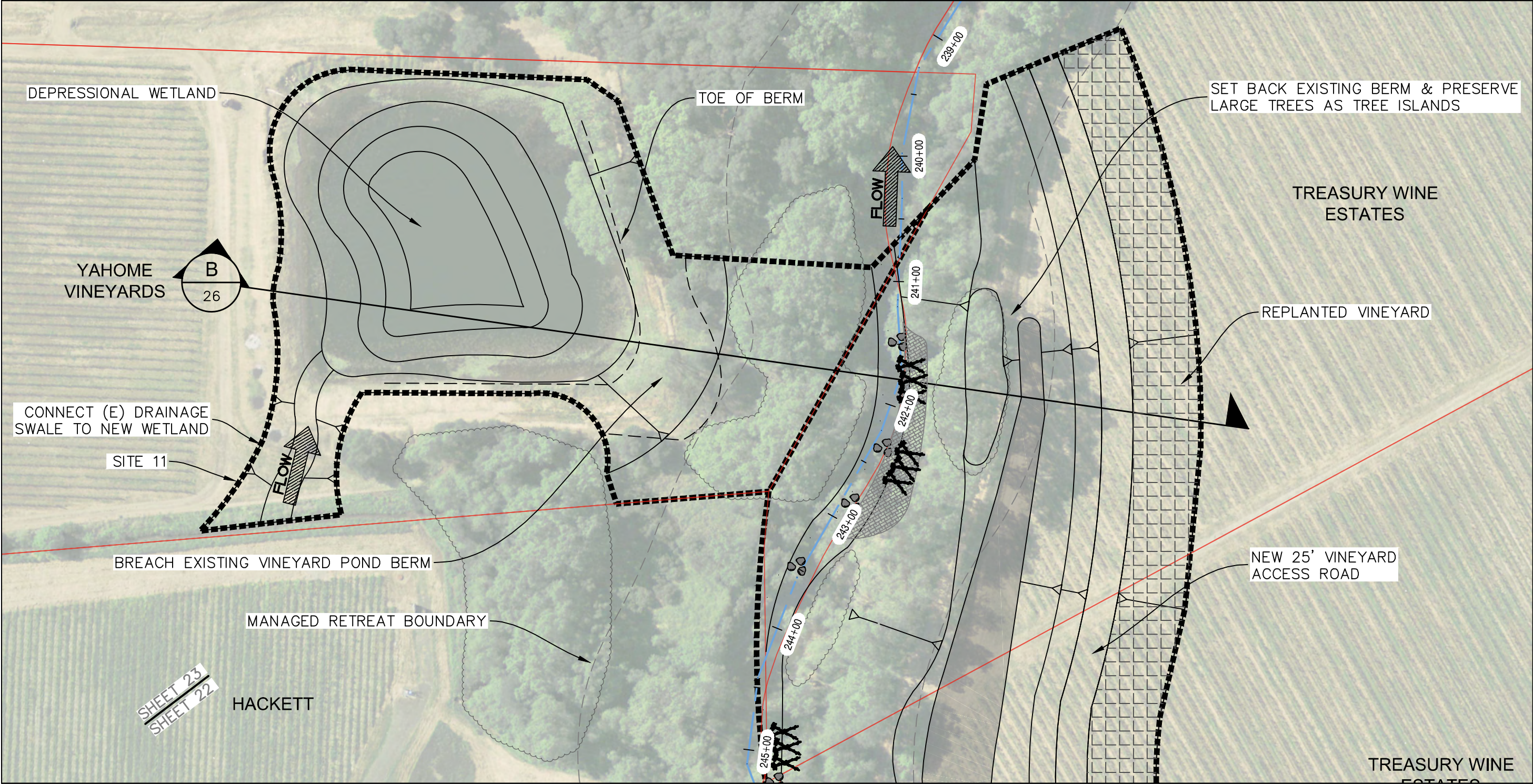


SOURCE: 2011 Napa County Aerial



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File: K:\projects\2012\20076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-18-CONCEPT-REFINEMENT.dwg



Legend

- | | | |
|------------------------|---|----------------------|
| Project Boundary | Transitional Riparian & Upland Planting | Roughness Boulders |
| Property Line | Flood Bench or Aulove | Large Wood Structure |
| Protect Existing Trees | Biotechnical Stabilization | Willow Baffle |

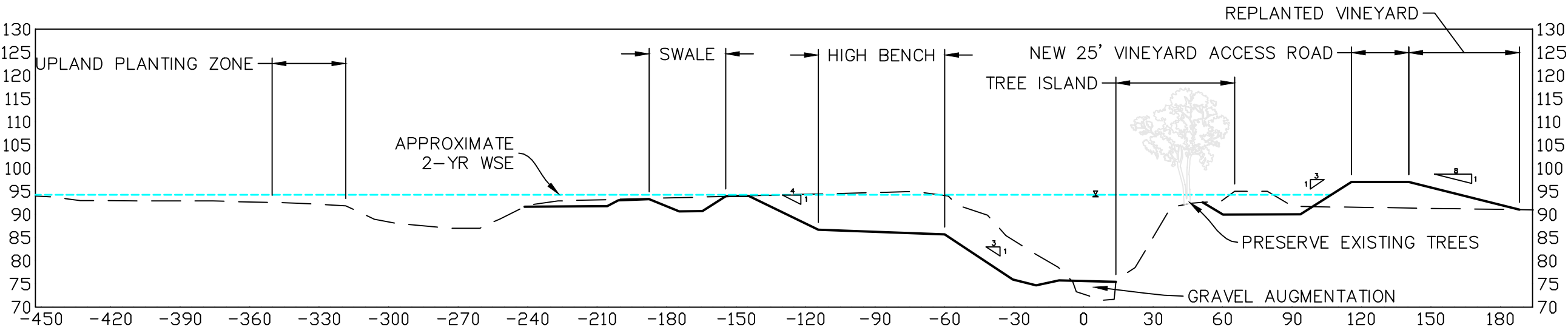
Site Summary

Project Boundary:	14: 16.9 Acres, 11: 2.6 Acres	Vineyard Removed:	14: 8.6 Acres, 11: 0 Acres
Grading Footprint:	14: 16.3 Acres, 11: 2.1 Acres	Vineyard Replanted:	14: 3.5 Acres, 11: 0 Acres
Grading Volume (Cut/Fill):	14: 111,600/7,700, 11: 3,700/0 CY	Trees Removed (>12"):	14: 35, 11: 0

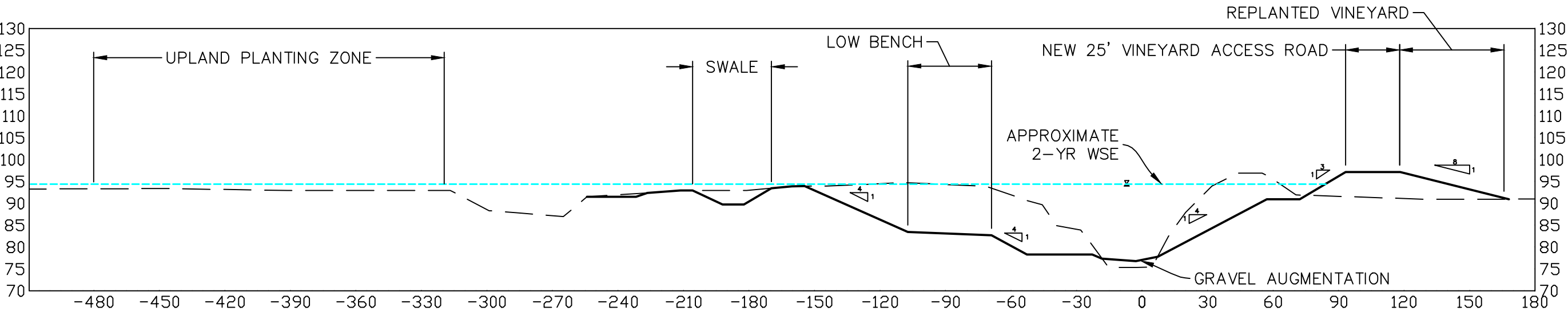
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6. Grading volumes are approximate and based on preliminary topographic data.
7. Managed Retreat Boundary: Estimated corridor width to support sustainable and resilient physical processes.

Print Date: 11/19/2013



A SITE 14 & 13 LEVEE SETBACK, BENCH, & TREE PRESERVATION



B SITE 14 & 13 LEVEE SETBACK, BENCH, & TREE REMOVAL

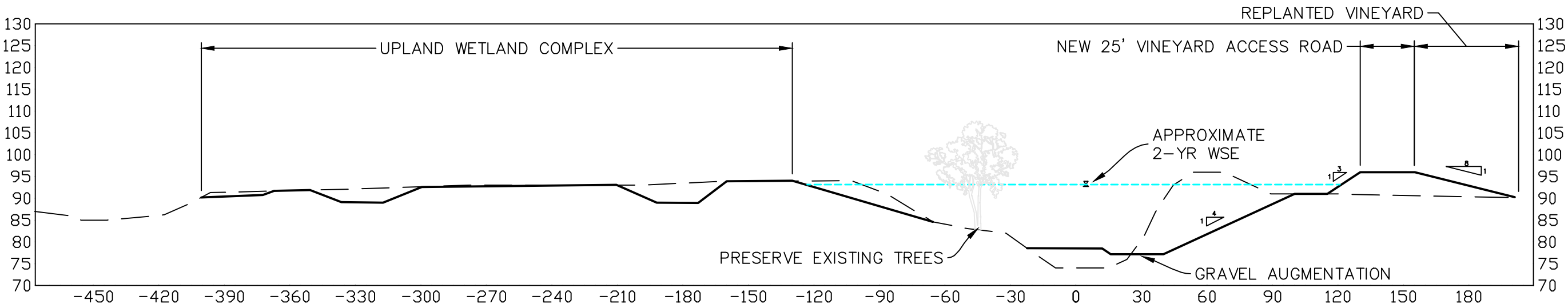
Notes

- 1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
- 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.

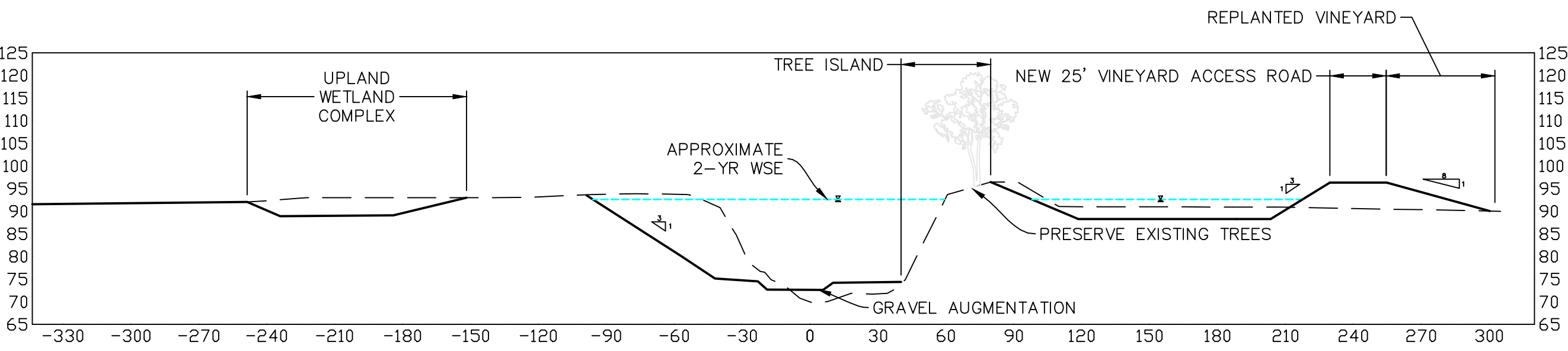


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File: K:\projects\2012\02076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-18-CONCEPT-REFINEMENT.dwg



A SITE 14 & 13 LEVEE SETBACK, UPLAND MOUNDS, & BENCH

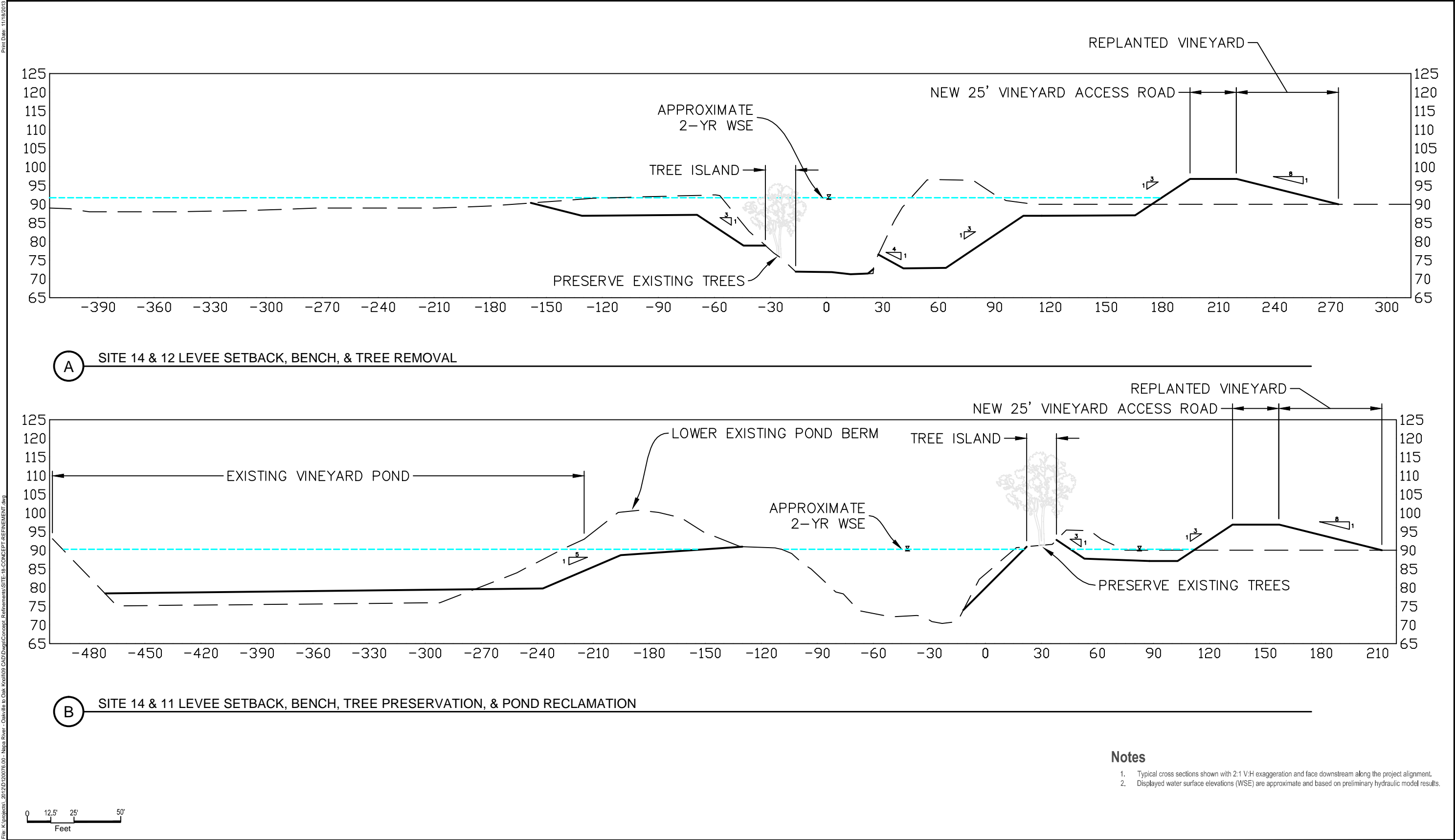


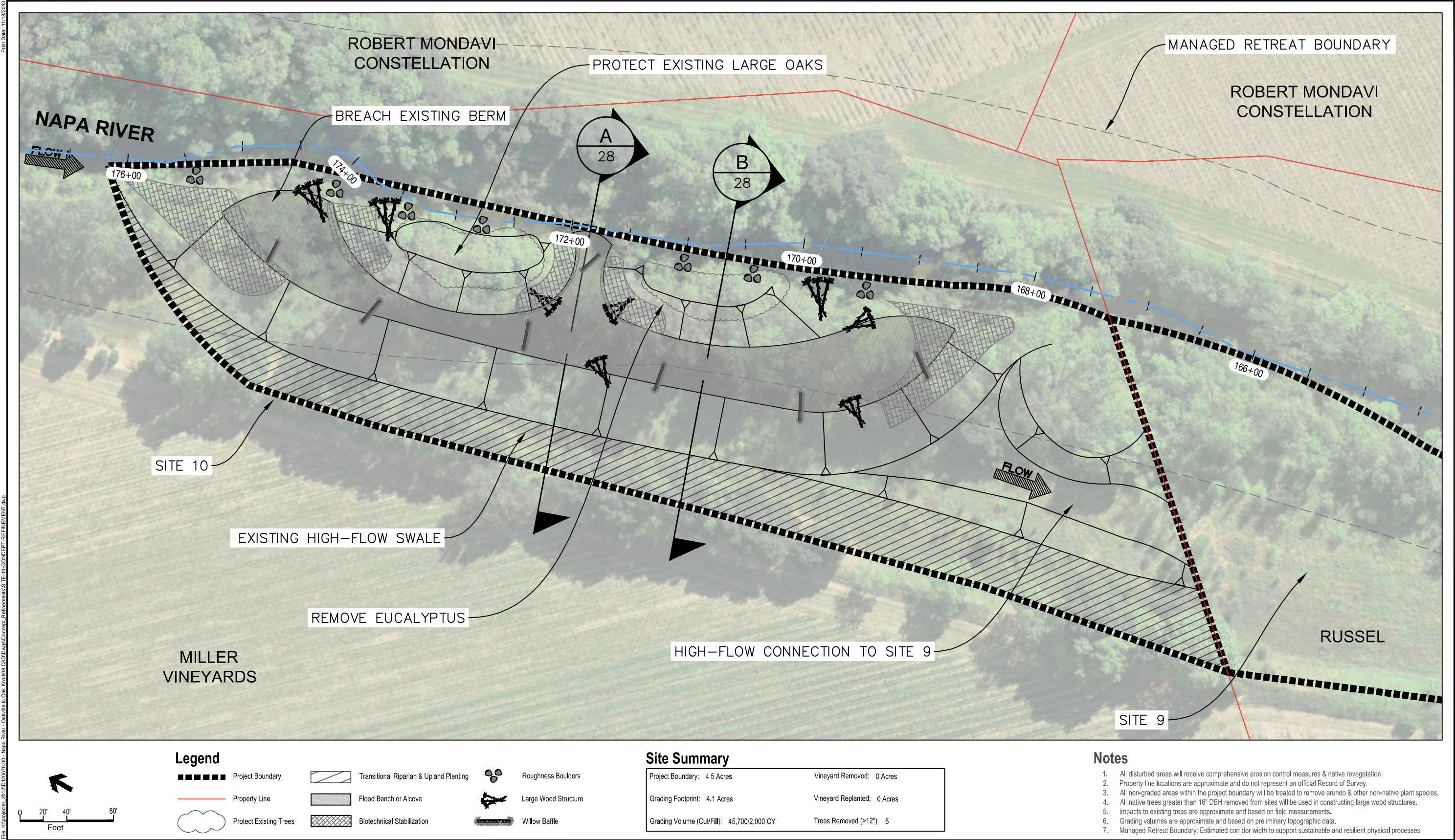
B SITE 14 & 13 LEVEE SETBACK, BENCH, & WETLAND

Notes

1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
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SOURCE: 2011 Napa County Aerial

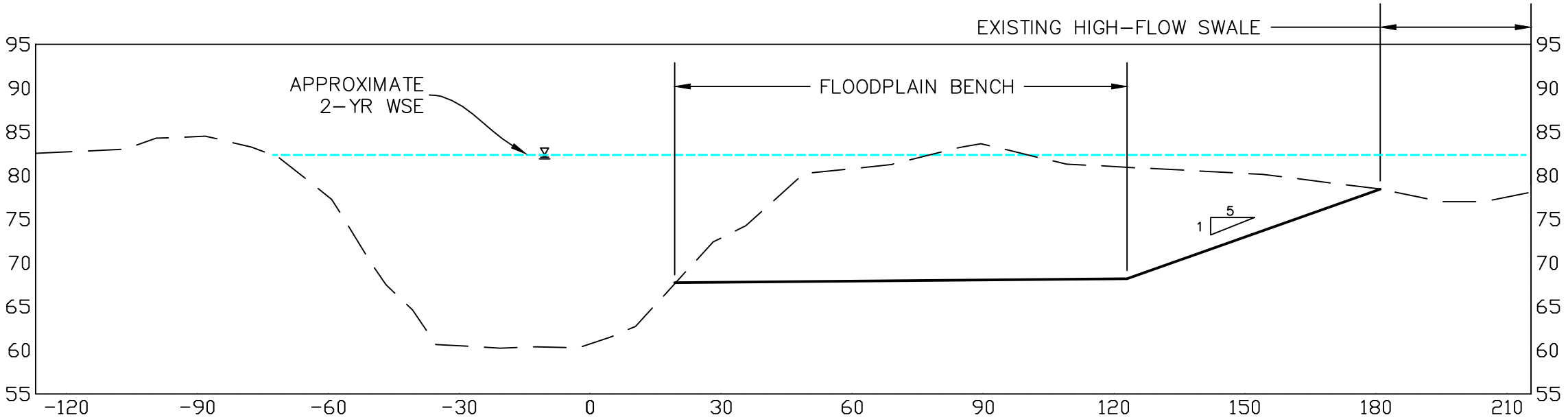


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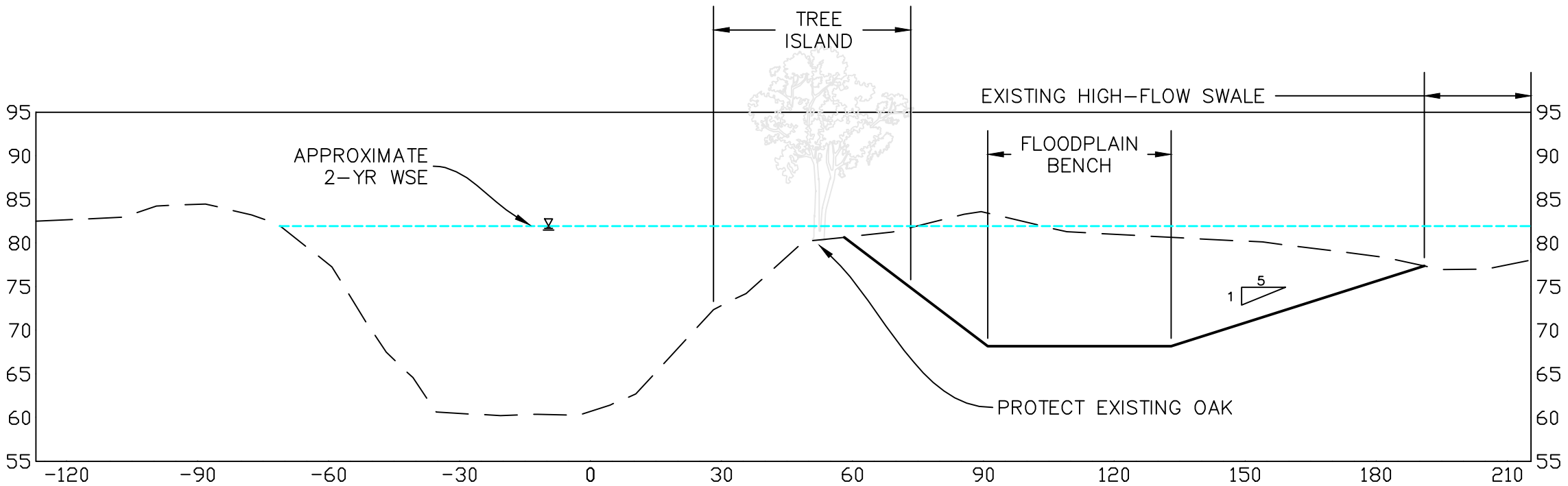
Napa River Restoration - Oakville to Oak Knoll

Sheet 27
30% Design
Site 10 Plan View

Print Date: 11/19/2013
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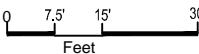
A SITE 10 & 9 FLOODPLAIN BENCH

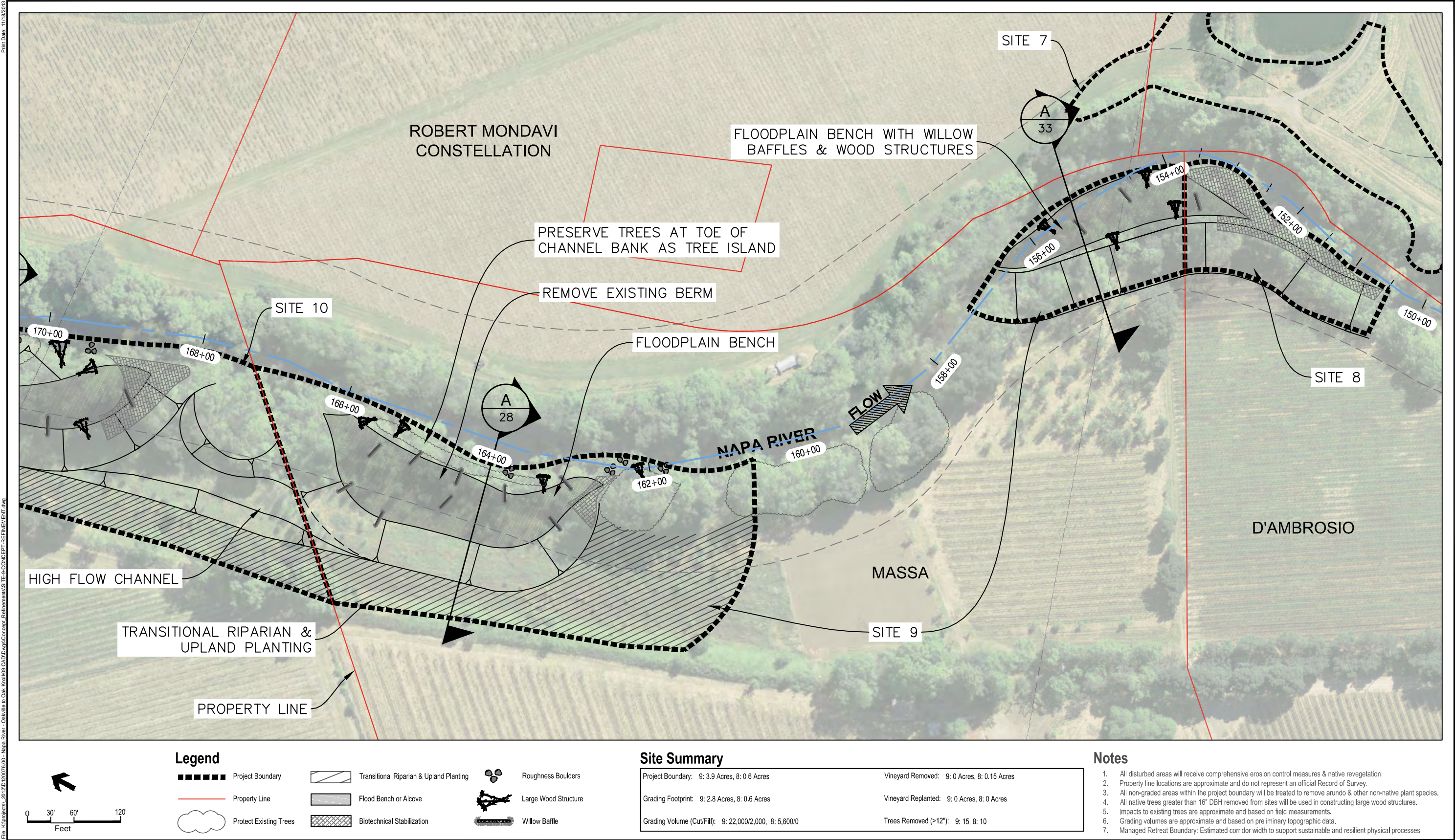


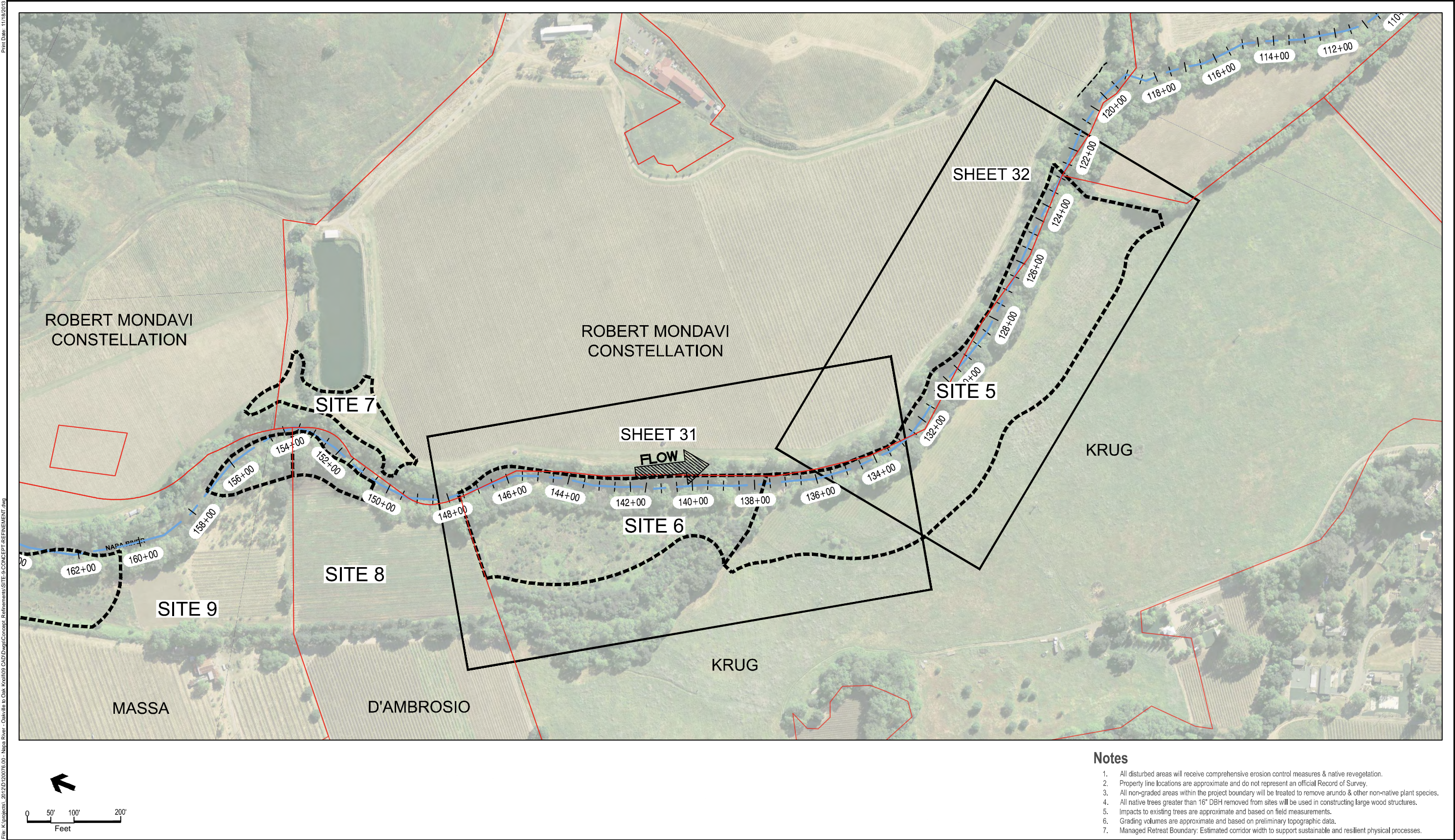
B SITE 10 TREE ISLAND & FLOODPLAIN BENCH

Notes

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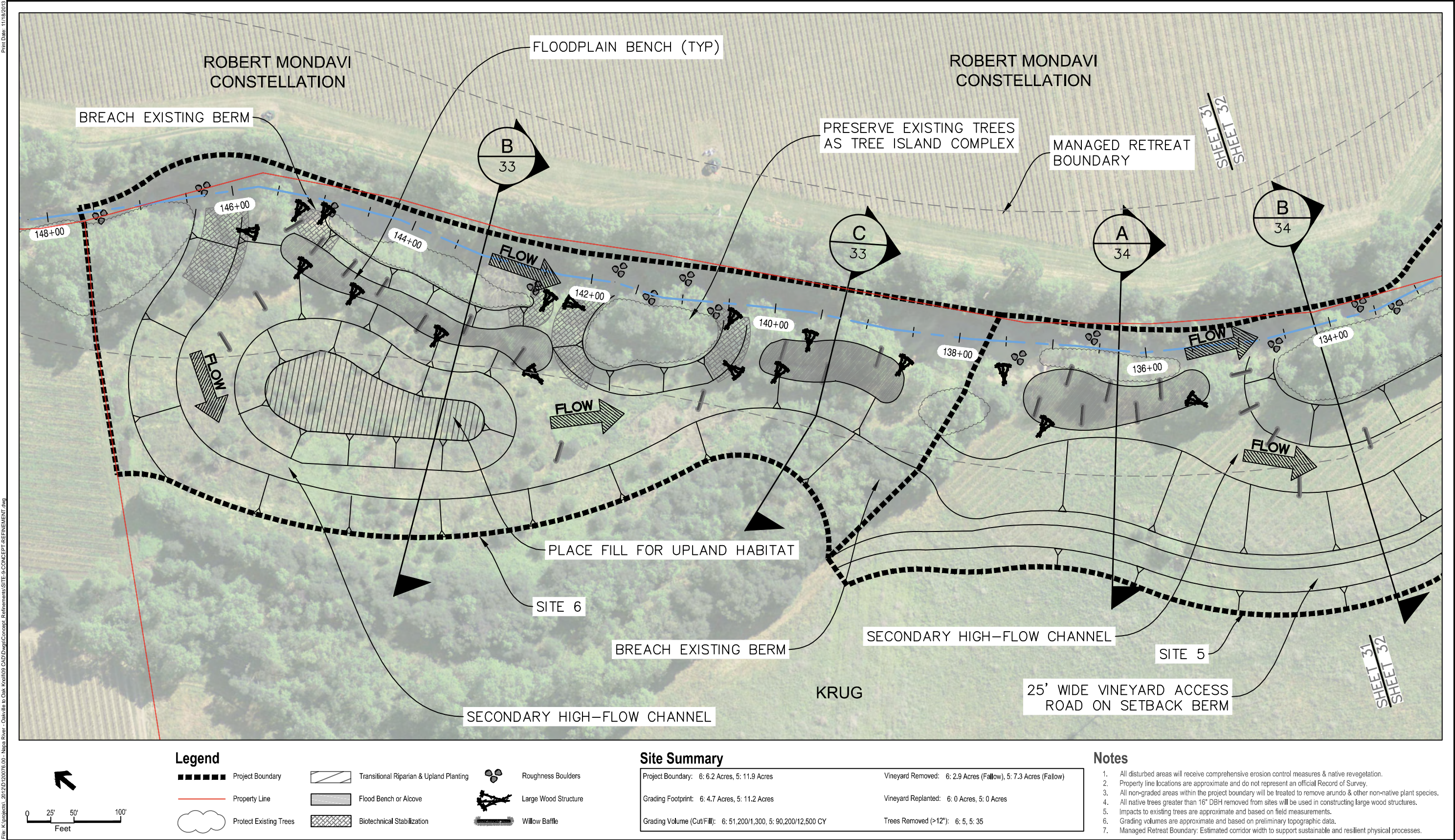
SOURCE: 2011 Napa County Aerial



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Napa River Restoration - Oakville to Oak Knoll

Sheet 30
30% Design
Sites 6-5 Overview



SOURCE: 2011 Napa County Aerial



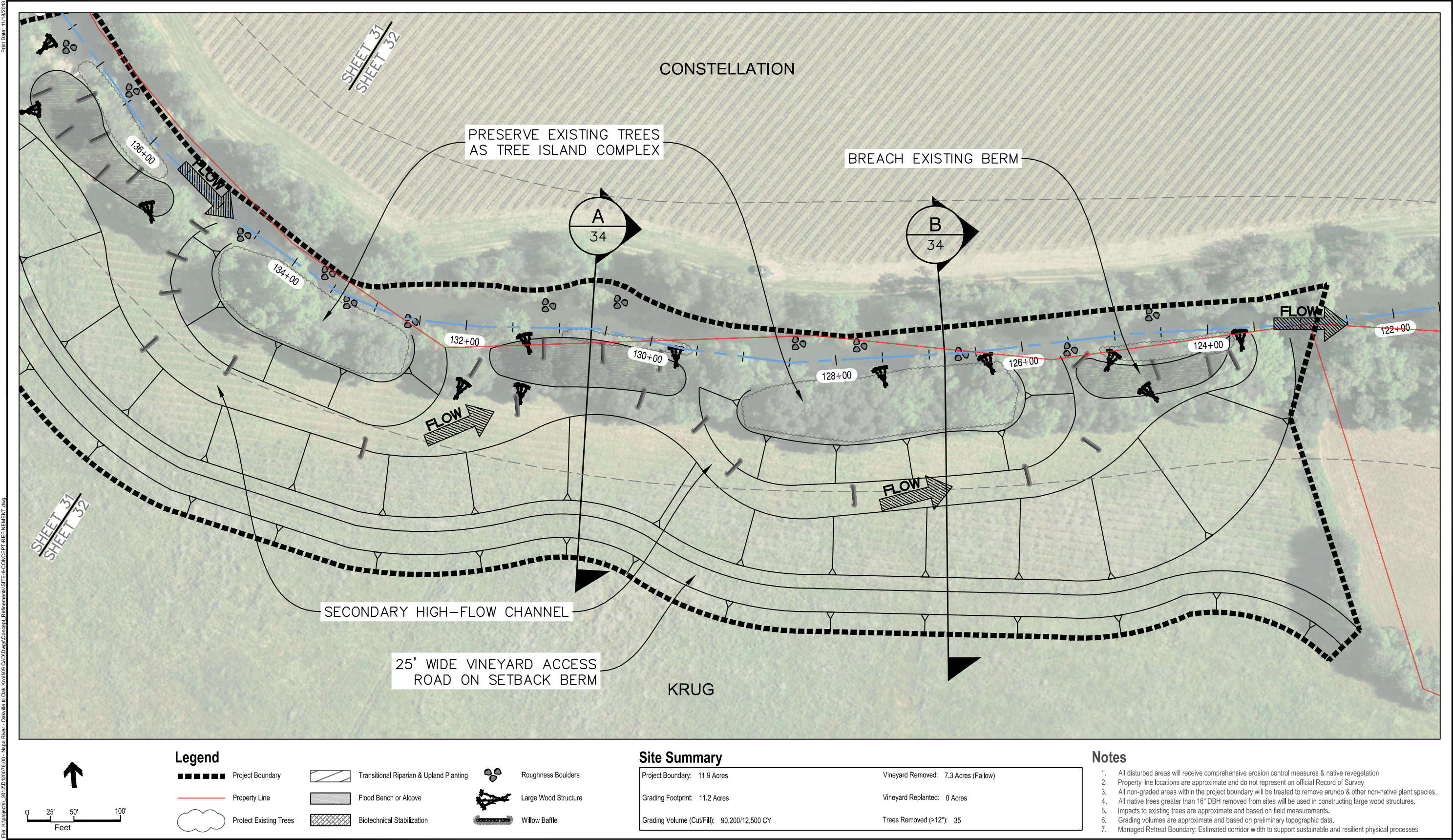
Napa River Restoration - Oakville to Oak Knoll

Sheet 31

30% Design

Site 6 & 5 Plan View

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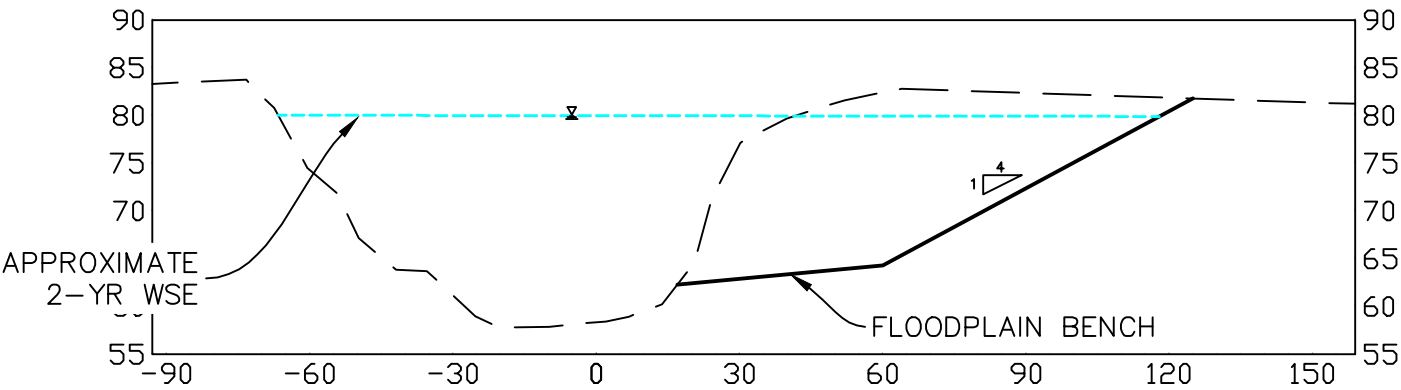


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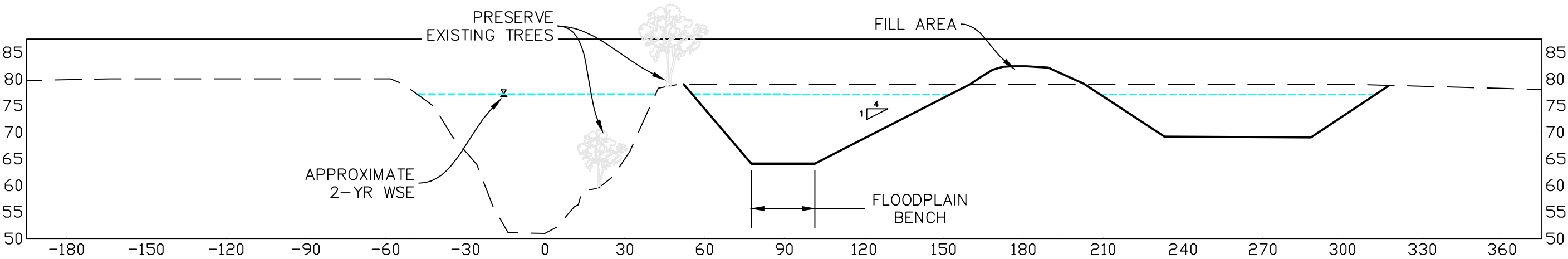
Napa River Restoration - Oakville to Oak Knoll

Sheet 32
30% Design
Site 5 Plan View

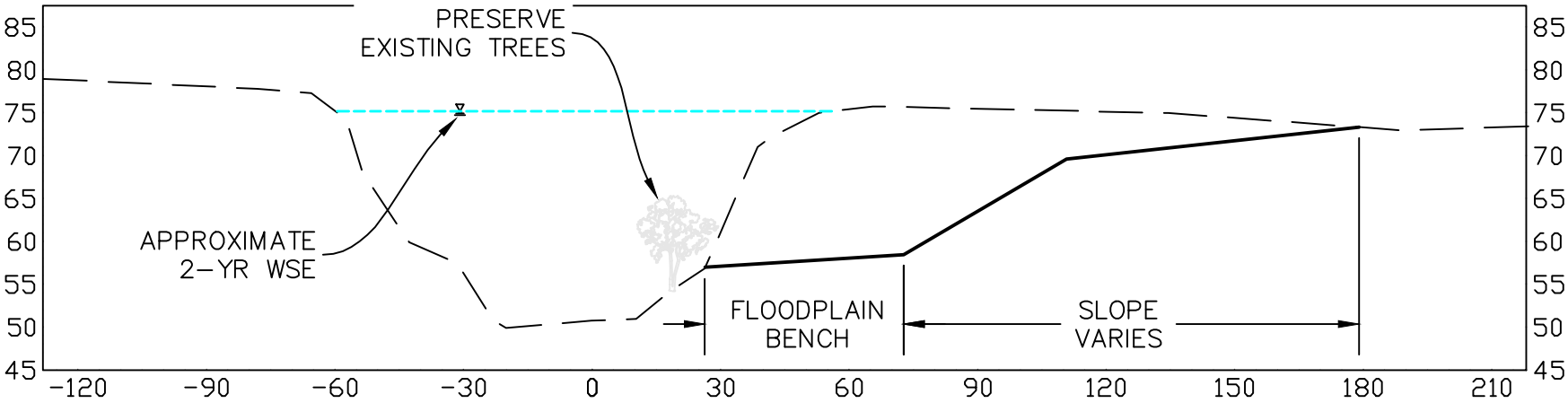
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A SITE 9 FLOOD BENCH



B SITE 6 TREE ISLAND, FLOOD BENCH, & UPLAND GRADING



C SITE 6 FLOOD BENCH

- Notes
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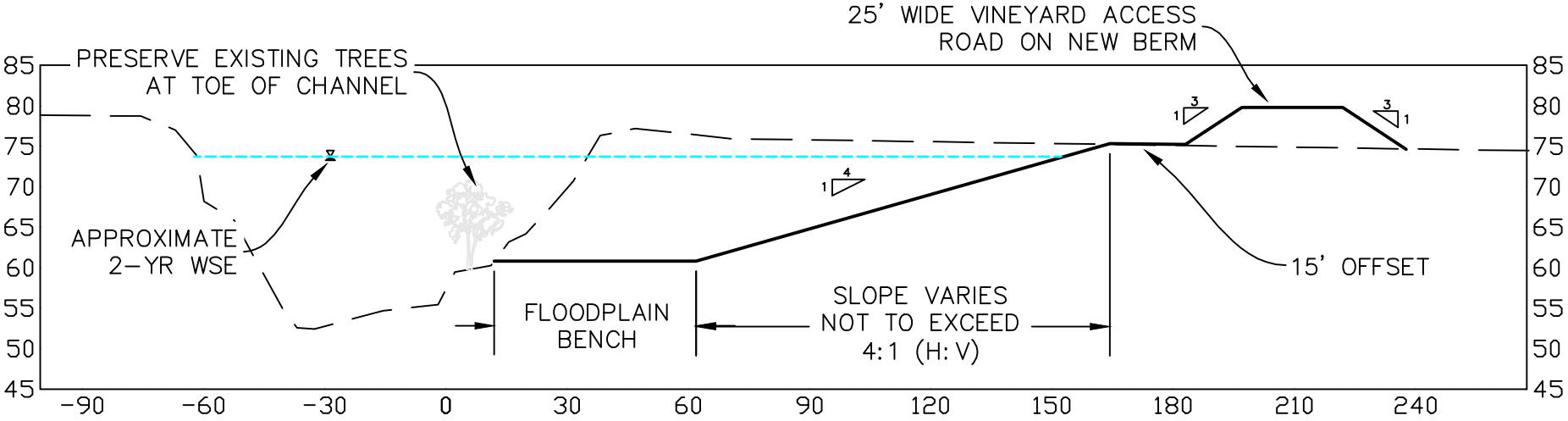


SOURCE: 2011 Napa County Aerial

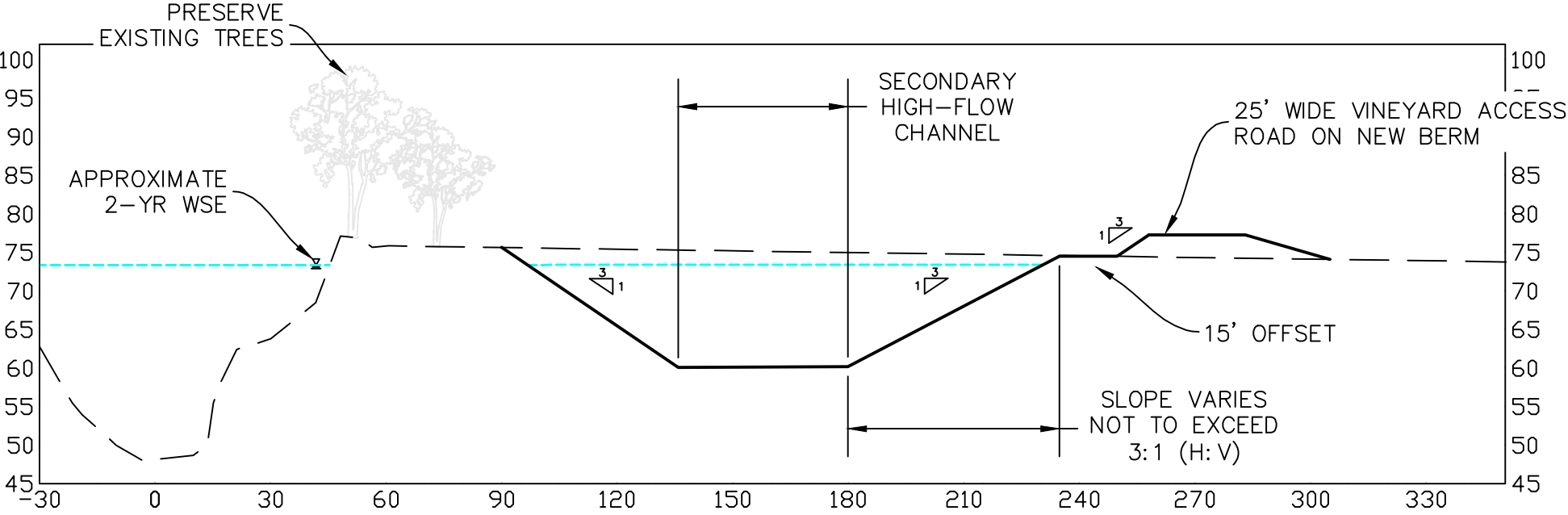


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Corps file 2014-00332N Oakville to Oak Knoll
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Print Date: 11/19/2013
File: K:\projects\2012\20076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-9-CONCEPT-REFINEMENT.dwg



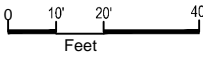
A SITE 5 FLOOD BENCH

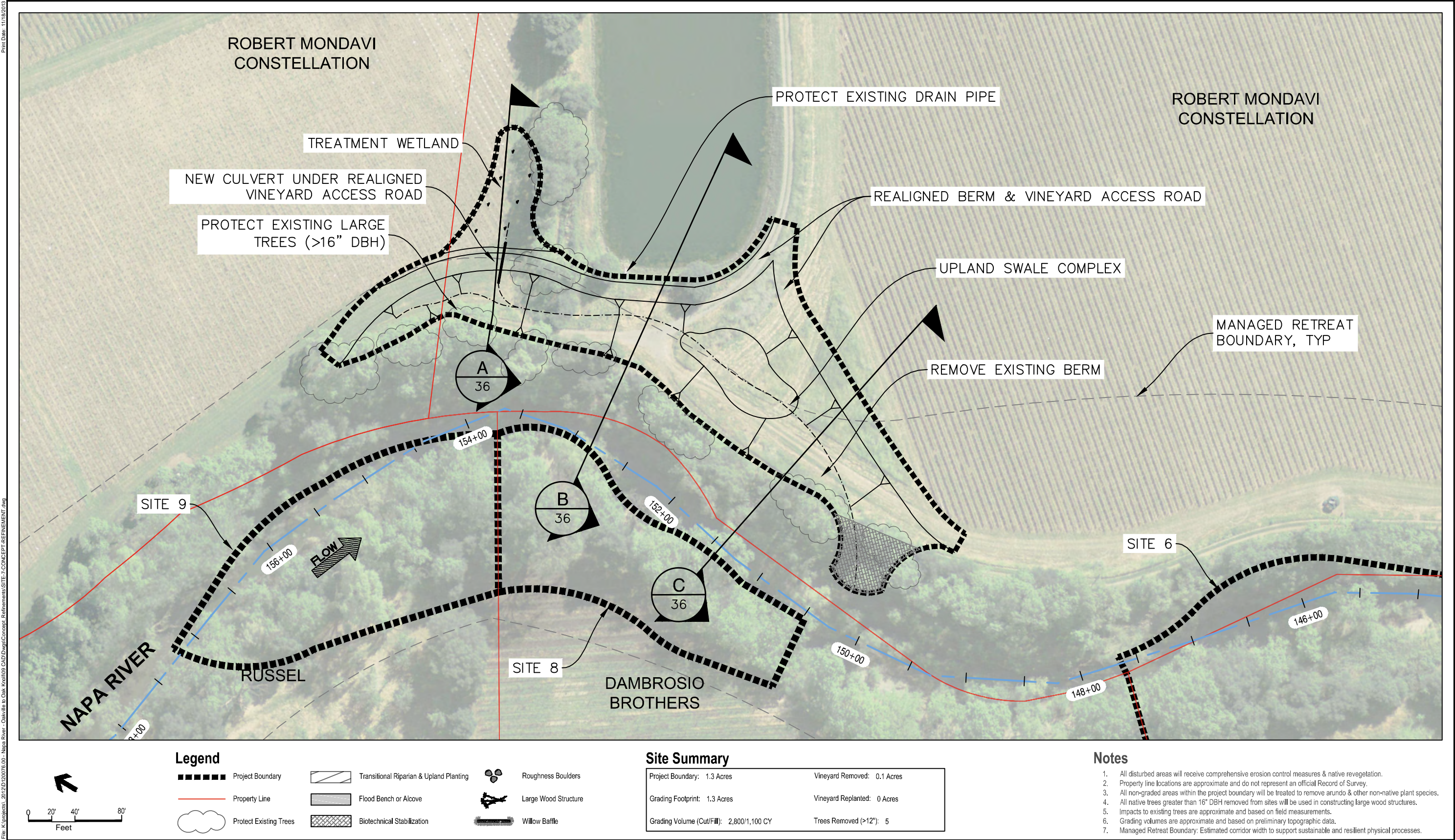


B SITE 5 TREE ISLAND AND SECONDARY CHANNEL

Notes

- 1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
- 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.





SOURCE: 2011 Napa County Aerial



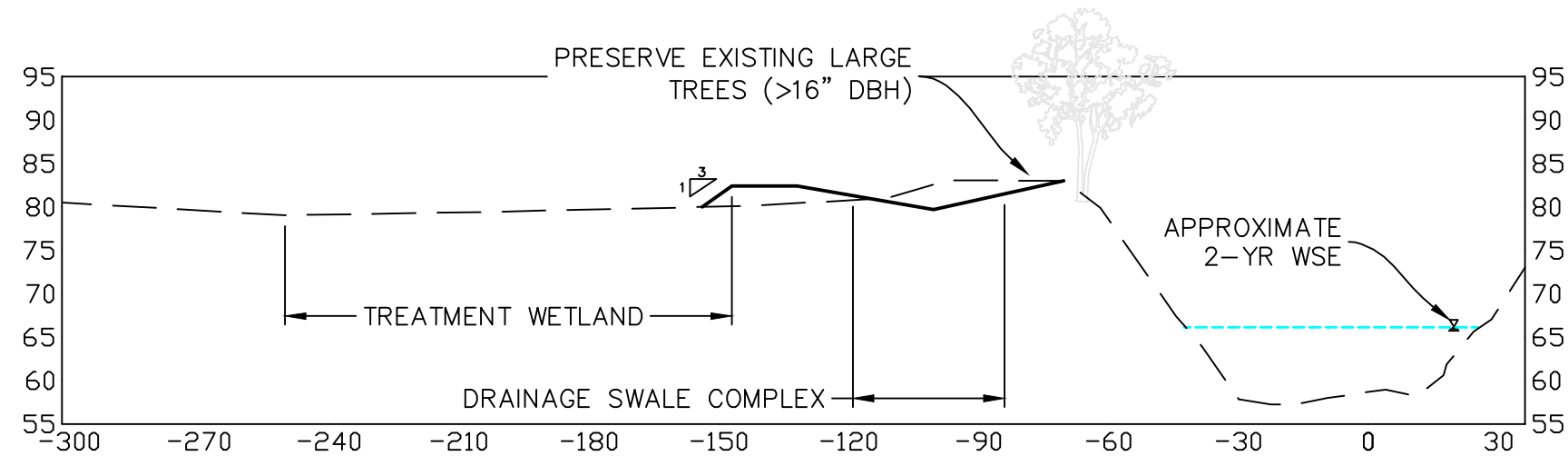
30% DESIGN: NOT FOR CONSTRUCTION
Corps file 2014-00332N Oakville to Oak Knoll
Public Notice January 12, 2015

Napa River Restoration - Oakville to Oak Knoll

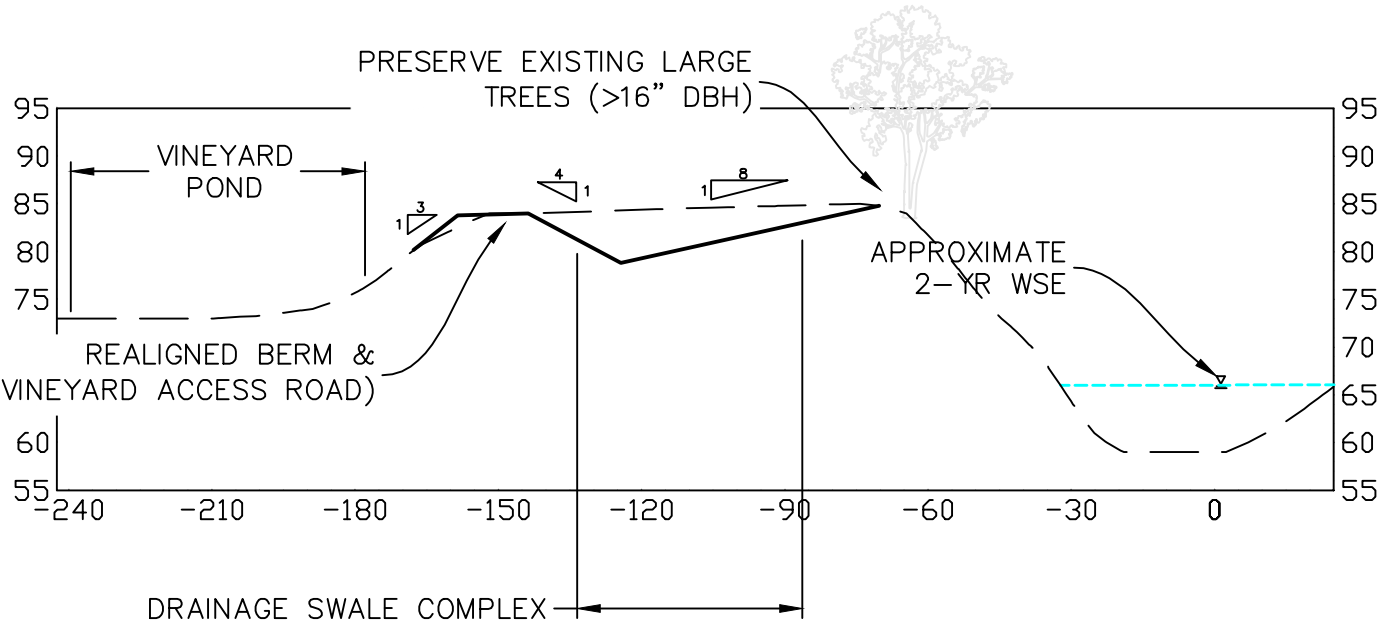
Sheet 35

30% Design
Site 7 Plan View

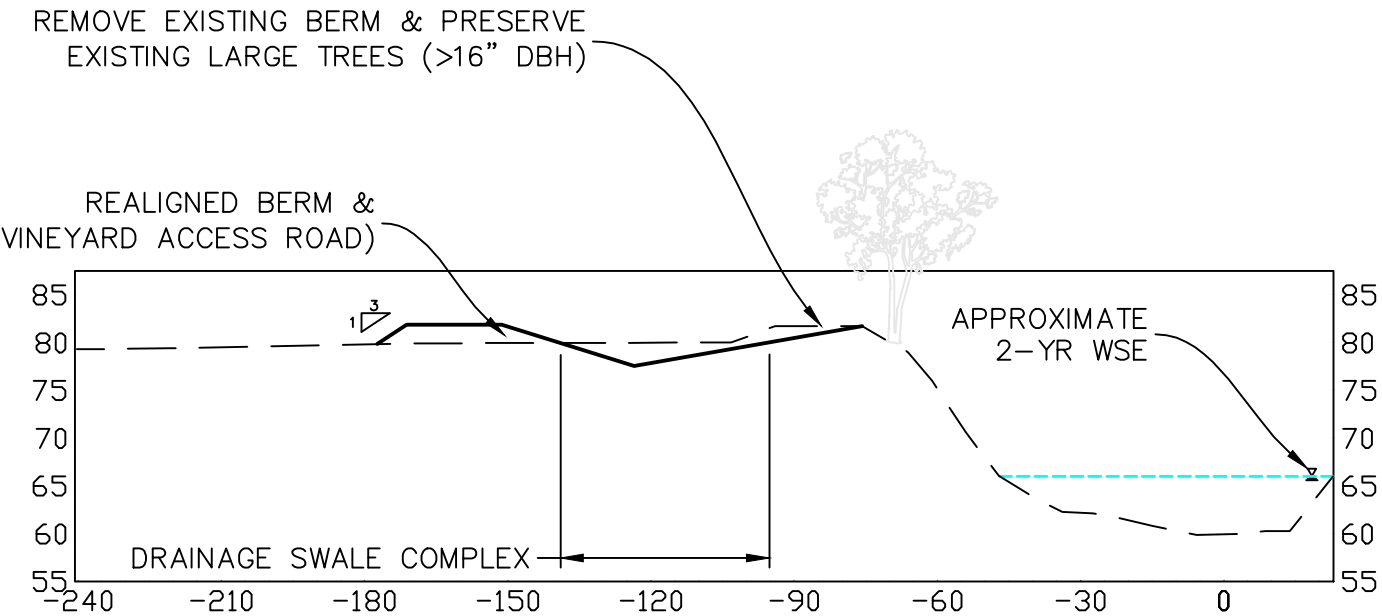
Print Date: 11/19/2013
File: K:\projects\2012\20076-00 - Napa River - Oakville to Oak Knoll\9 CAD\Drawings\Concept Refinements\SITE-7\CONCEPT-REFINEMENT.dwg



A SITE 7 REALIGNED BERM, DRAINAGE SWALE COMPLEX, & TREATMENT WETLAND



B SITE 7 REALIGNED BERM & DRAINAGE SWALE COMPLEX



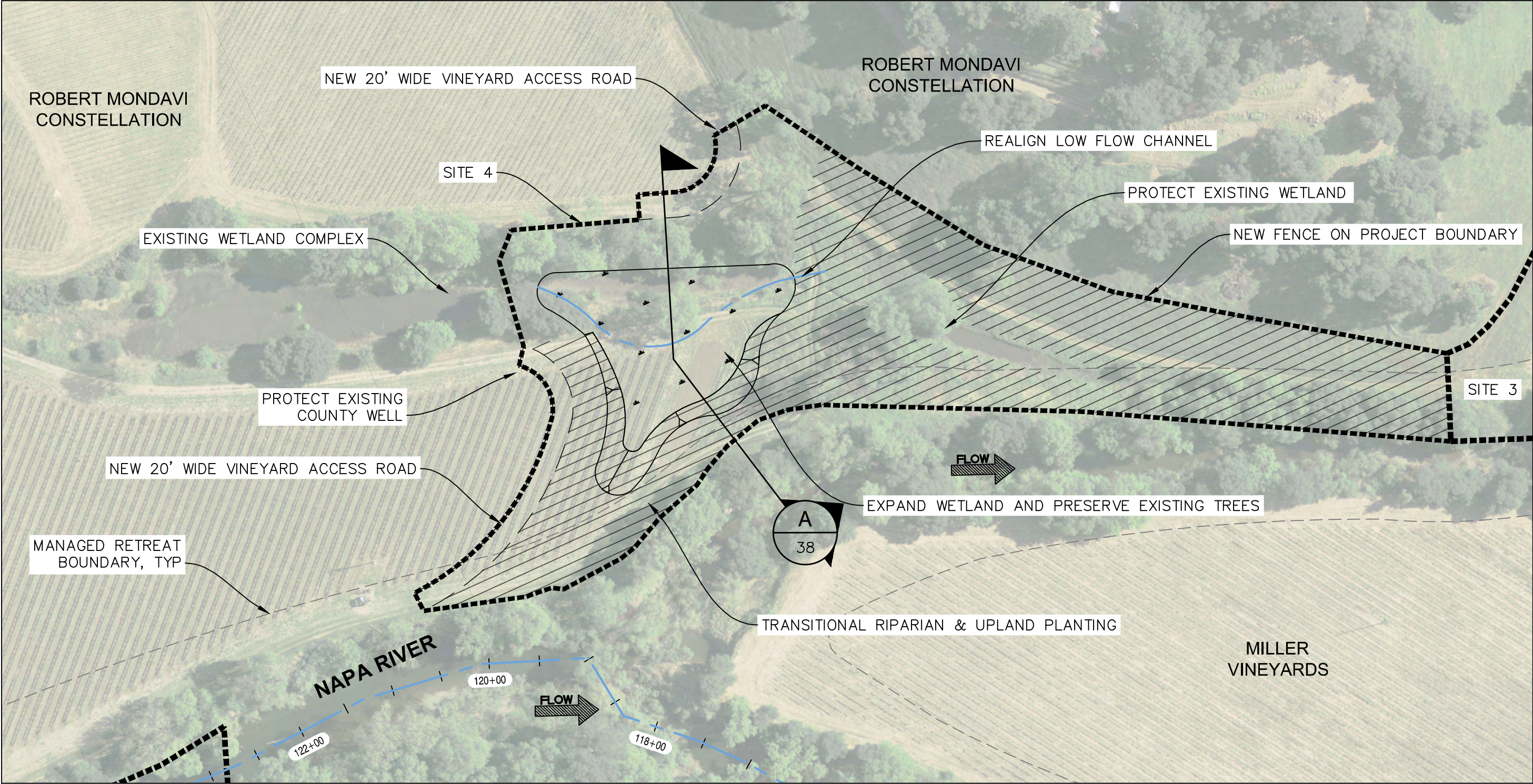
C SITE 7 REALIGNED BERM & DRAINAGE SWALE COMPLEX

Notes

1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.



Print Date: 11/19/2013
File: K:\projects\2012\20076-00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-4\CONCEPT REFINEMENT.dwg



0 25' 50' 100'
Feet

Legend

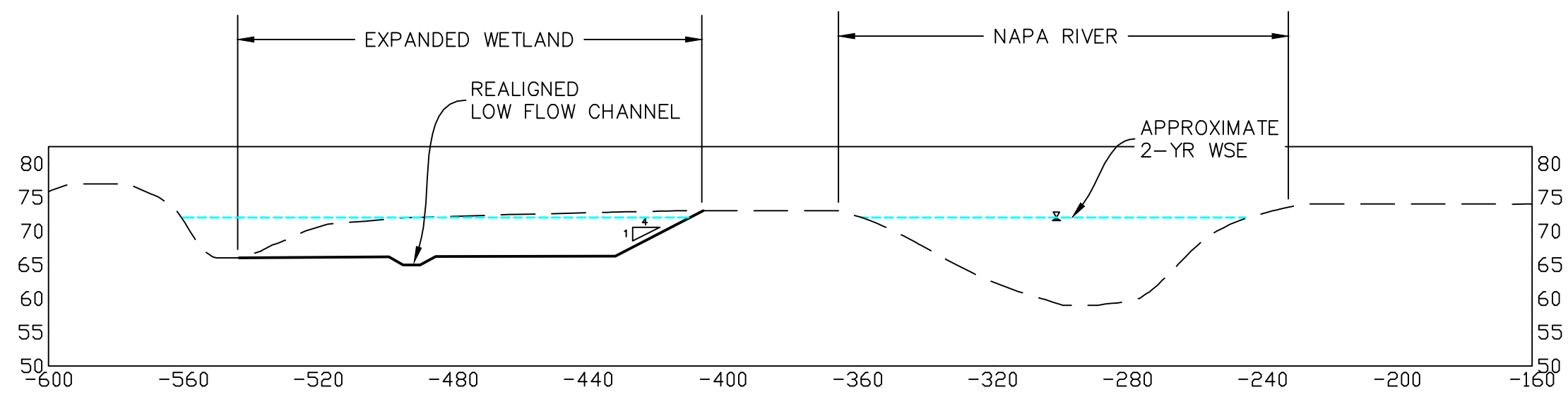
Project Boundary	Transitional Riparian & Upland Planting	Roughness Boulders
Property Line	Flood Bench or Alcove	Large Wood Structure
Protect Existing Trees	Biotechnical Stabilization	Willow Baffle

Site Summary	
Project Boundary: 4.3 Acres	Vineyard Removed: 0.9 Acres
Grading Footprint: 1.0 Acres	Vineyard Replanted: 0 Acres
Grading Volume (Cut/Fill): 1,400/0 CY	Trees Removed (>12"): 0

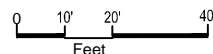
- Notes**
1. All disturbed areas will receive comprehensive erosion control measures & native revegetation.
 2. Property line locations are approximate and do not represent an official Record of Survey.
 3. All non-graded areas within the project boundary will be treated to remove arundo & other non-native plant species.
 4. All native trees greater than 16" DBH removed from sites will be used in constructing large wood structures.
 5. Impacts to existing trees are approximate and based on field measurements.
 6. Grading volumes are approximate and based on preliminary topographic data.
 7. Managed Retreat Boundary: Estimated corridor width to support sustainable and resilient physical processes.

Print Date: 11/19/2013

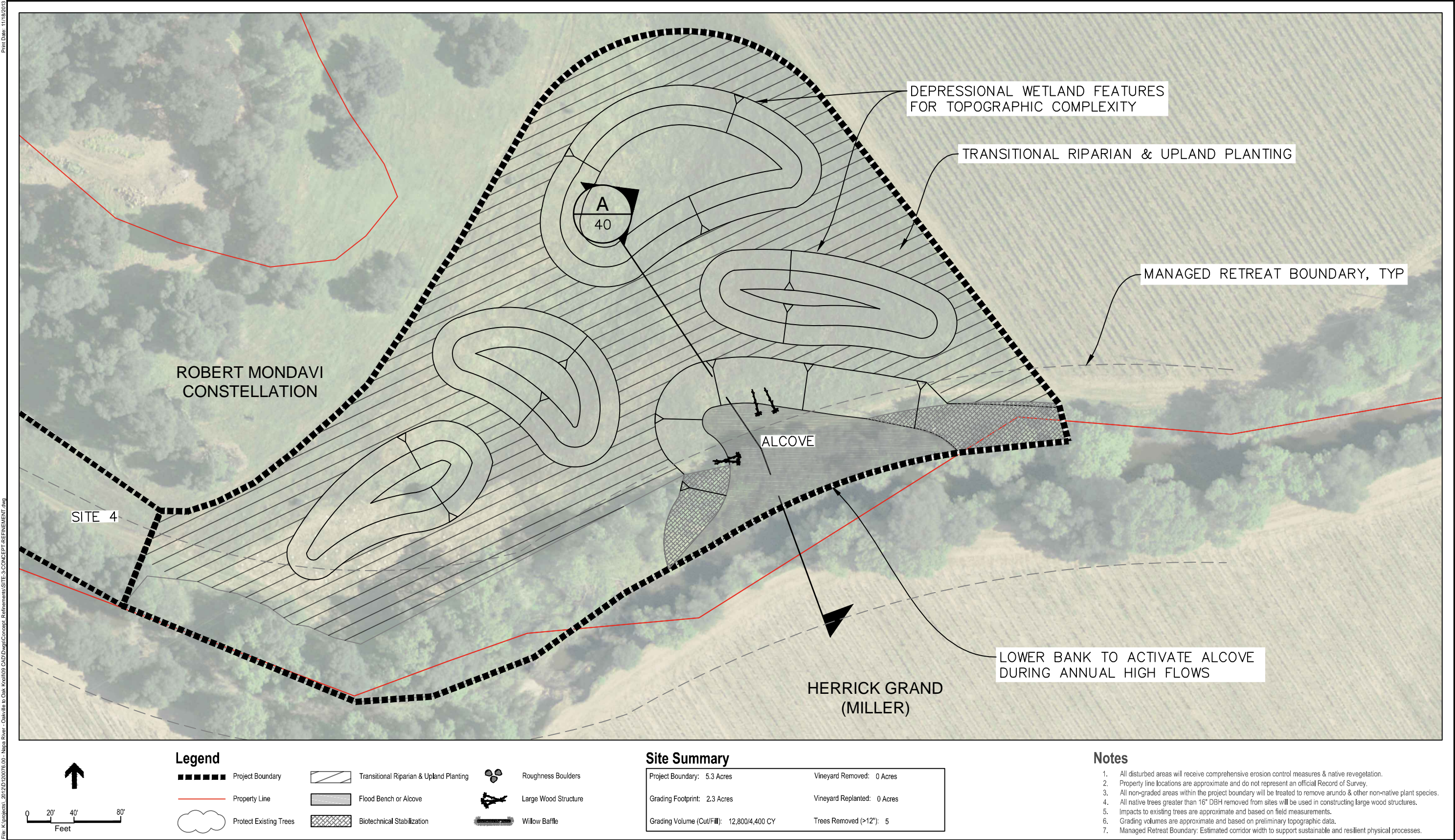
File: K:\projects\2012\20076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-4-CONCEPT-REFINEMENT.dwg



A SITE 4 WETLAND EXPANSION



- Notes**
1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.



SOURCE: 2011 Napa County Aerial

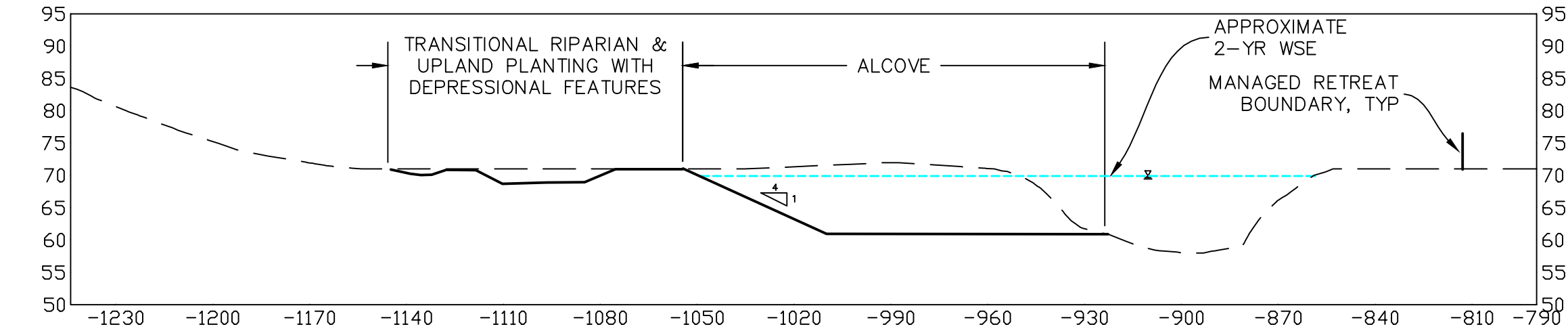
Napa River Restoration - Oakville to Oak Knoll



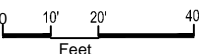
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Corps file 2014-00332N Oakville to Oak Knoll
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Sheet 39
30% Design
Site 3 Plan View

Print Date: 11/19/2013
File: K:\projects\2012\20076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-3-CONCEPT-REFINEMENT.dwg

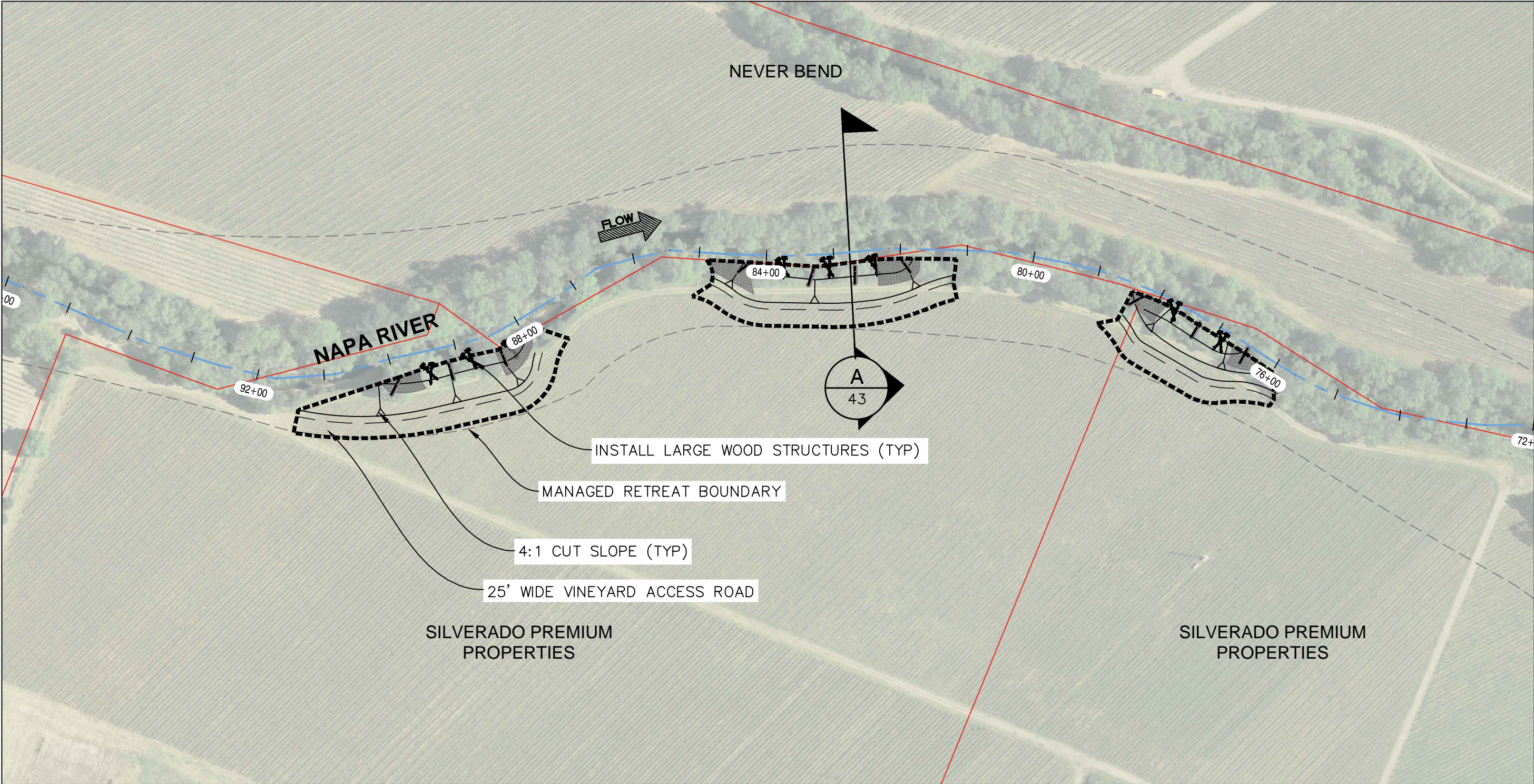


A SITE 3 ALCOVE & BANK GRADING



- Notes
- 1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
 - 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.

Print Date: 12/20/2013
File: K:\projects\2012\12076-00 - Napa River - Oakville to Oak Knoll\9 CAD\Drawings\Concept Refinements\SITE-2\CONCEPT REFINEMENT.dwg



Legend

- | | | |
|------------------------|---|----------------------|
| Project Boundary | Transitional Riparian & Upland Planting | Roughness Boulders |
| Property Line | Flood Bench or Allover | Large Wood Structure |
| Protect Existing Trees | Biotechnical Stabilization | Willow Baffle |

Site Summary

Project Boundary: 2.1 Acres	Vineyard Removed: 0.9 Acres
Grading Footprint: 2.1 Acres	Vineyard Replanted: 0 Acres
Grading Volume (Cut/Fill): 9,900/200 CY	Trees Removed (>12"): 10

Notes

1. All disturbed areas will receive comprehensive erosion control measures & native revegetation.
2. Property line locations are approximate and do not represent an official Record of Survey.
3. All non-graded areas within the project boundary will be treated to remove arundo & other non-native plant species.
4. All native trees greater than 16" DBH removed from sites will be used in constructing large wood structures.
5. Impacts to existing trees are approximate and based on field measurements.
6. Grading volumes are approximate and based on preliminary topographic data.
7. Managed Retreat Boundary: Estimated corridor width to support sustainable and resilient physical processes.

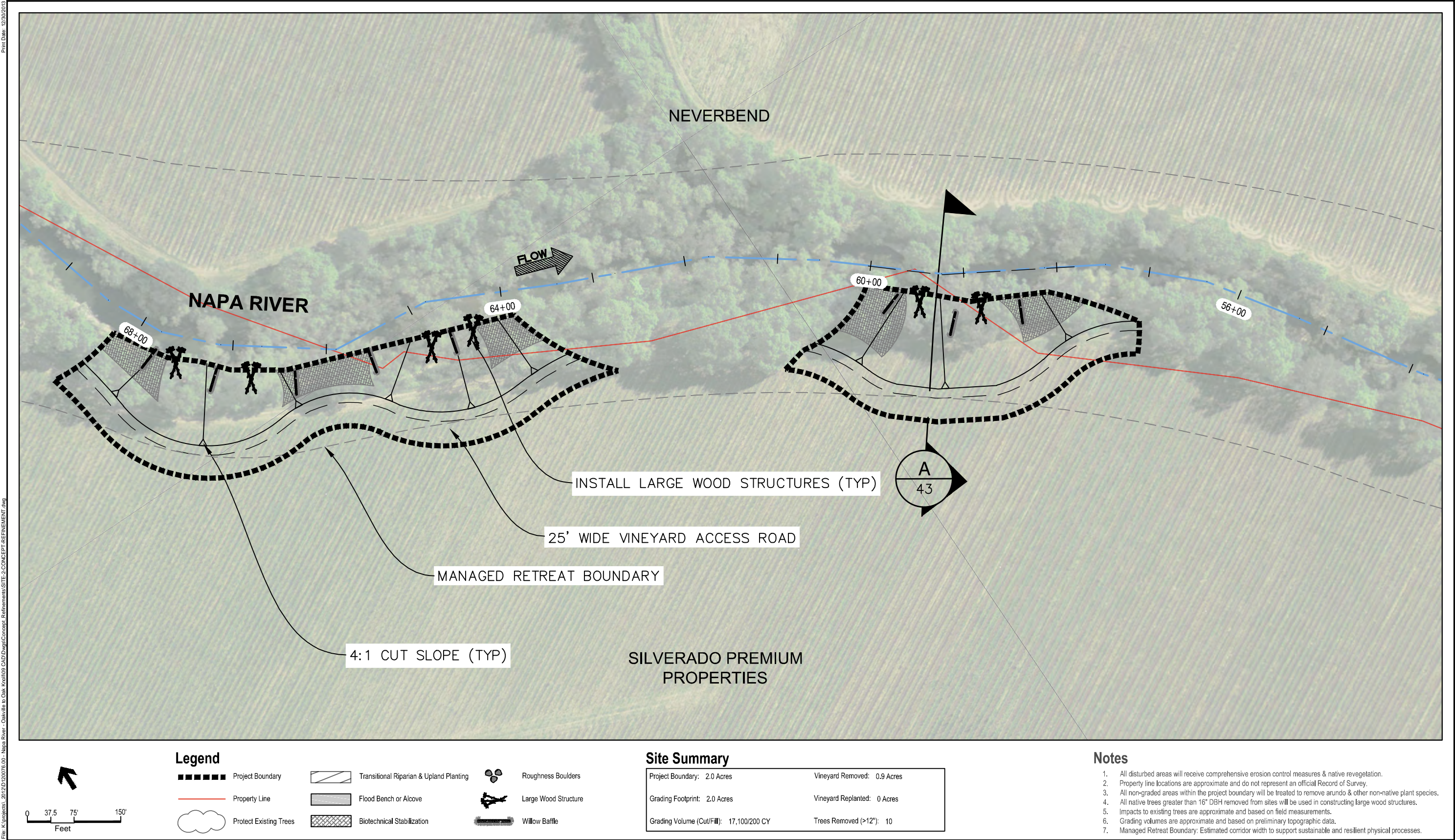
SOURCE: 2011 Napa County Aerial



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Sheet 41
30% Design
Site 2 Plan View



SOURCE: 2011 Napa County Aerial

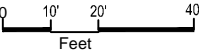
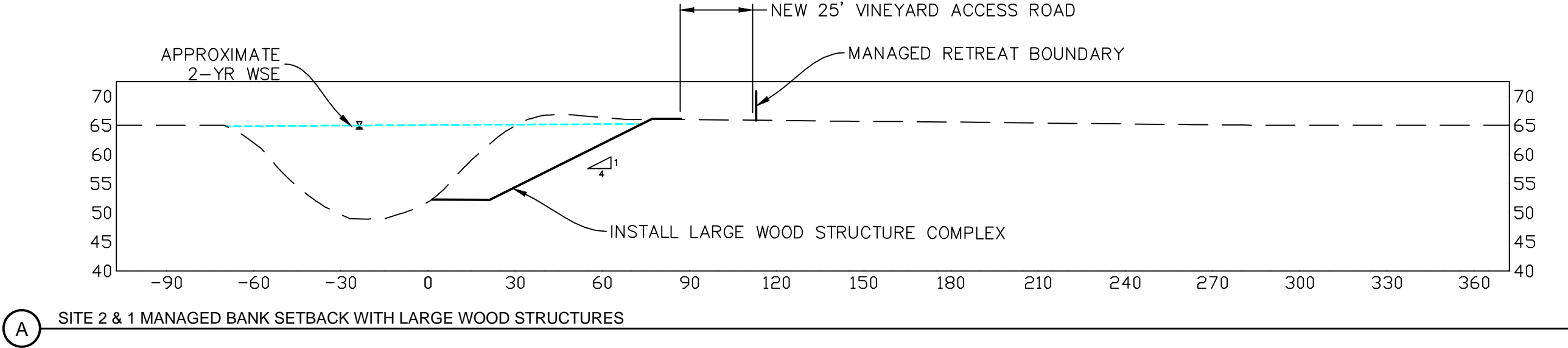


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Corps file 2014-00332N Oakville to Oak Knoll
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Napa River Restoration - Oakville to Oak Knoll

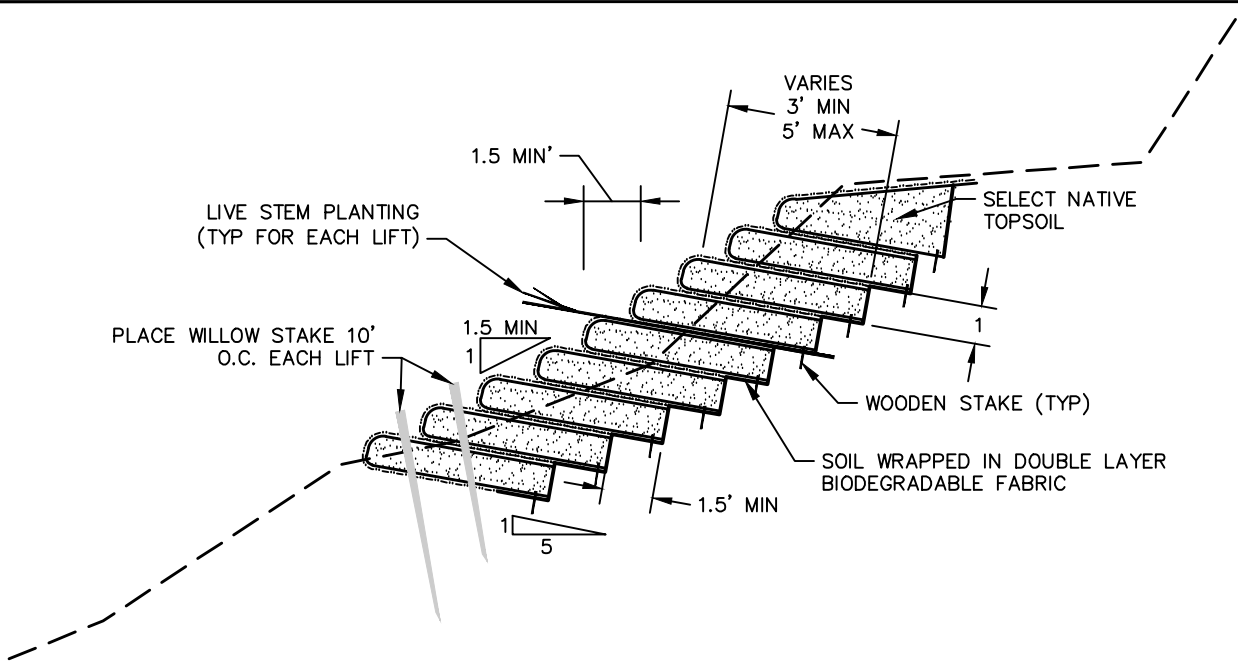
Sheet 42
30% Design
Site 1 Plan View

Print Date: 11/19/2013
File: K:\projects\2012\02076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\SITE-2\CONCEPT-REFINEMENT.dwg

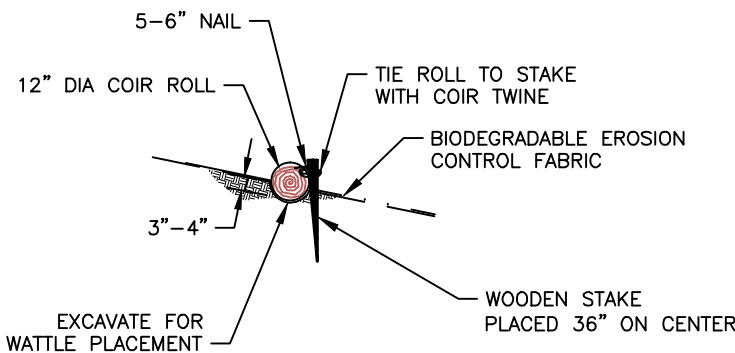


- Notes
- 1. Typical cross sections shown with 2:1 V:H exaggeration and face downstream along the project alignment.
 - 2. Displayed water surface elevations (WSE) are approximate and based on preliminary hydraulic model results.

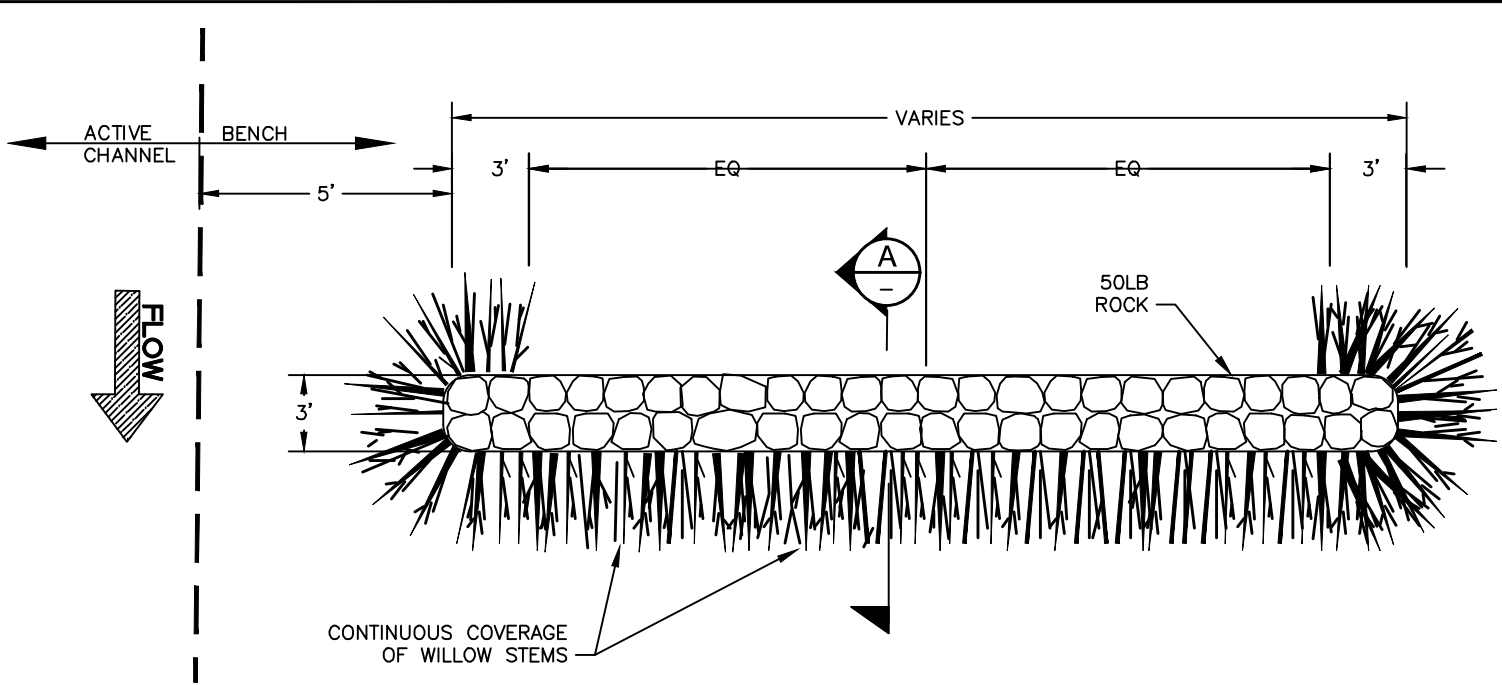
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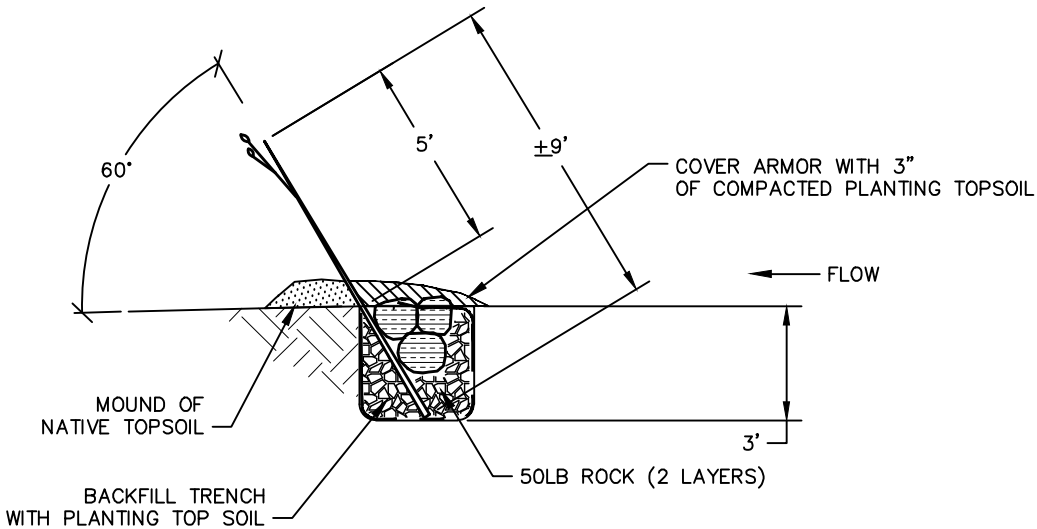
BIOTECHNICAL STABILIZATION
VEGETATED SOIL LIFT (VSL) SCALE: NTS



EROSION CONTROL
COIR LOG SCALE: NTS

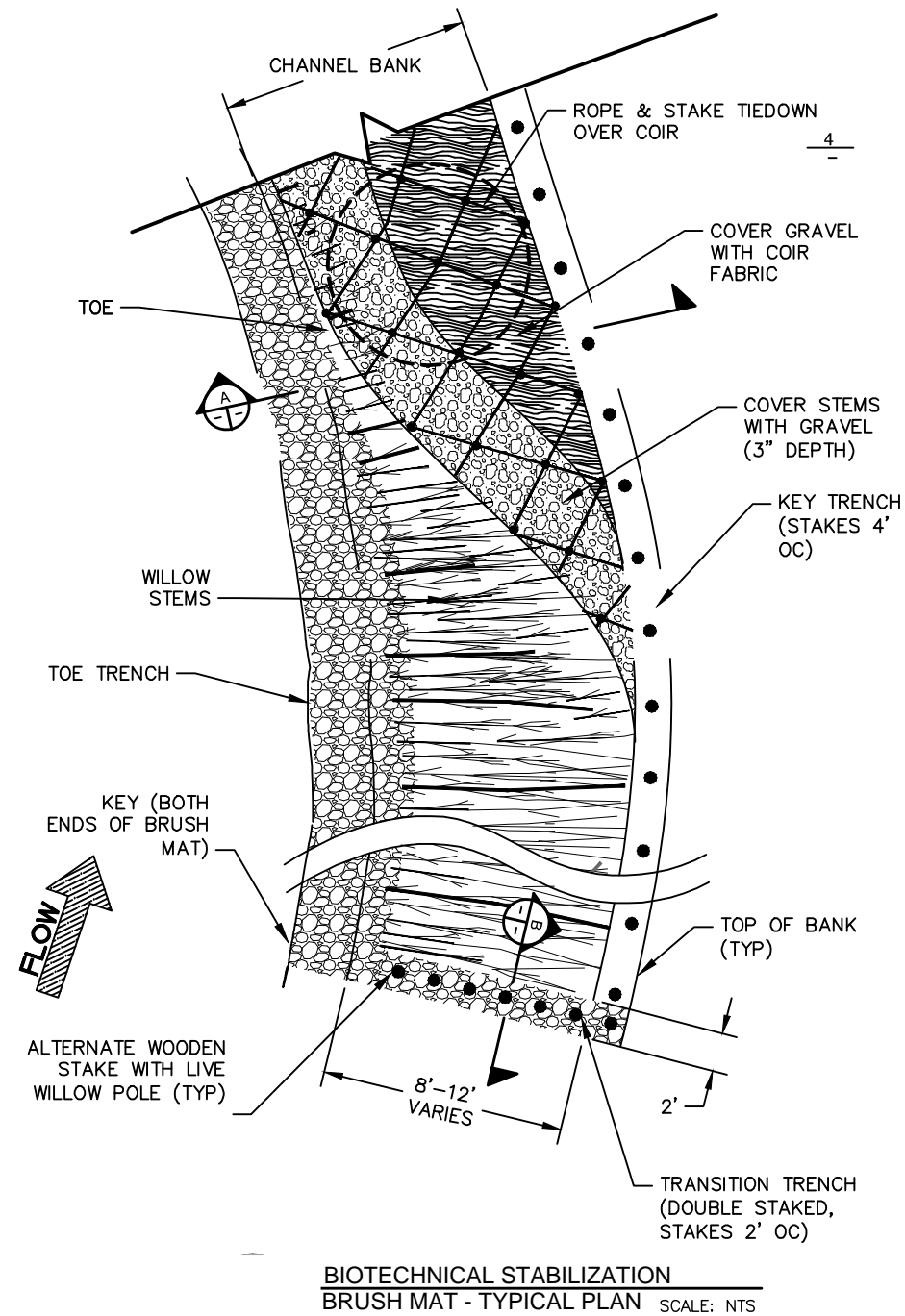
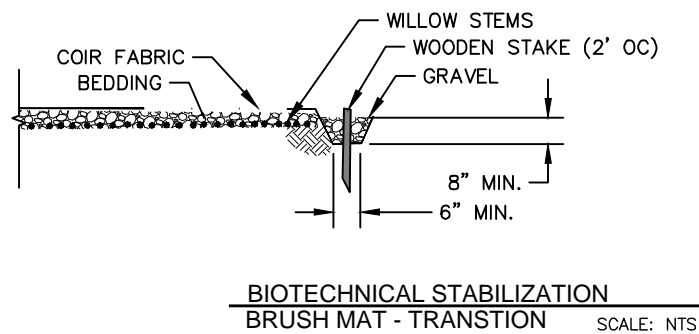
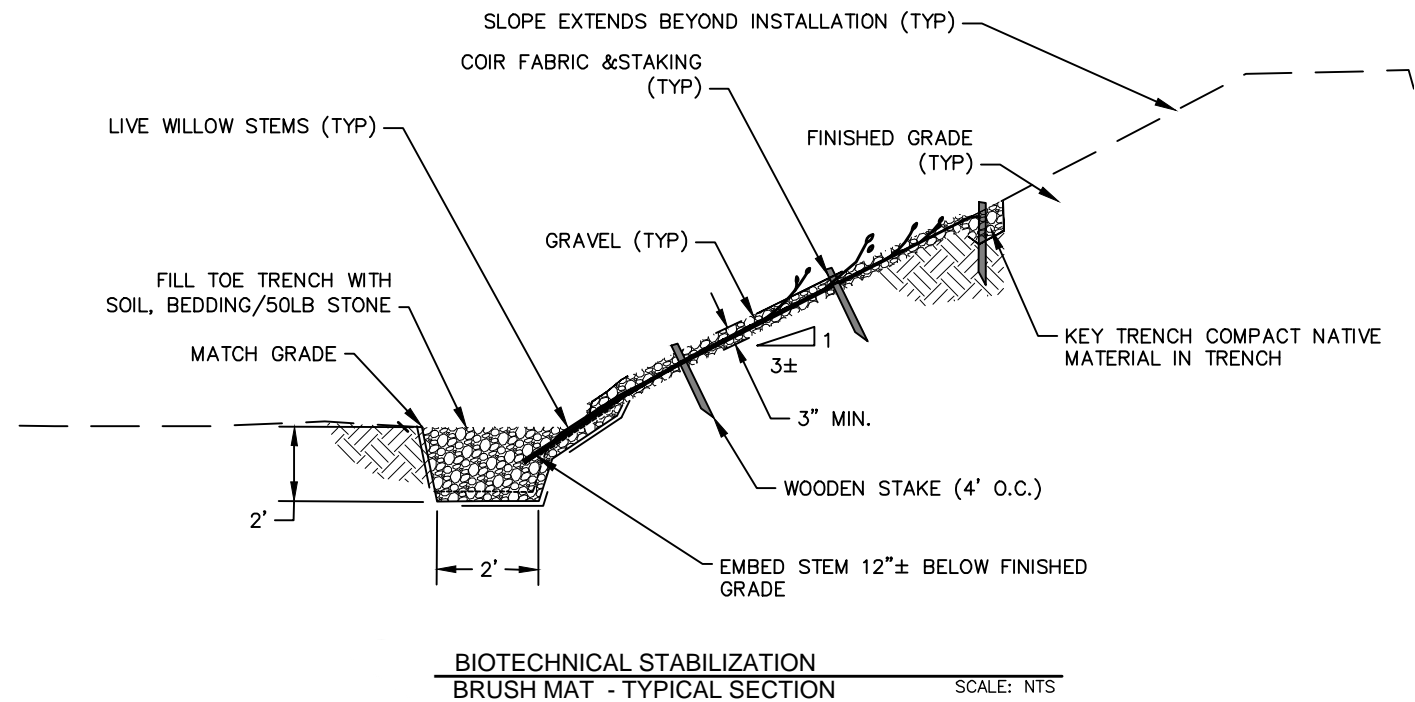


WILLOW BAFFLE
TYPICAL PLAN SCALE: NTS



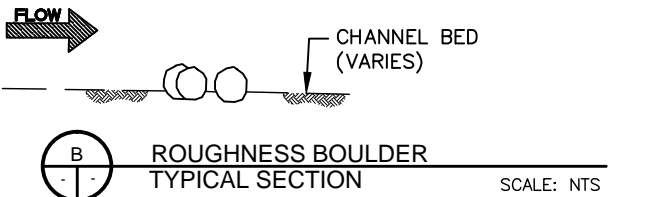
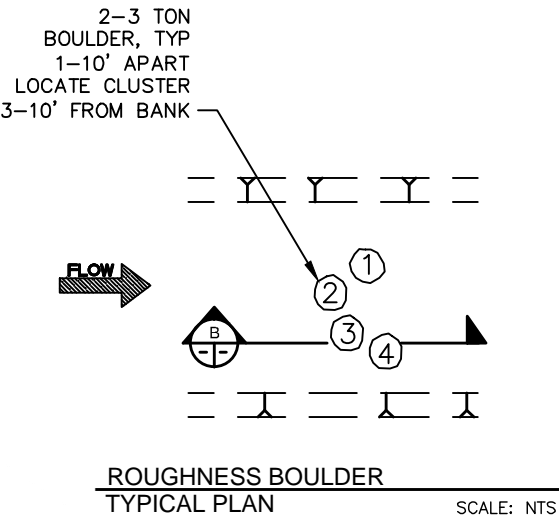
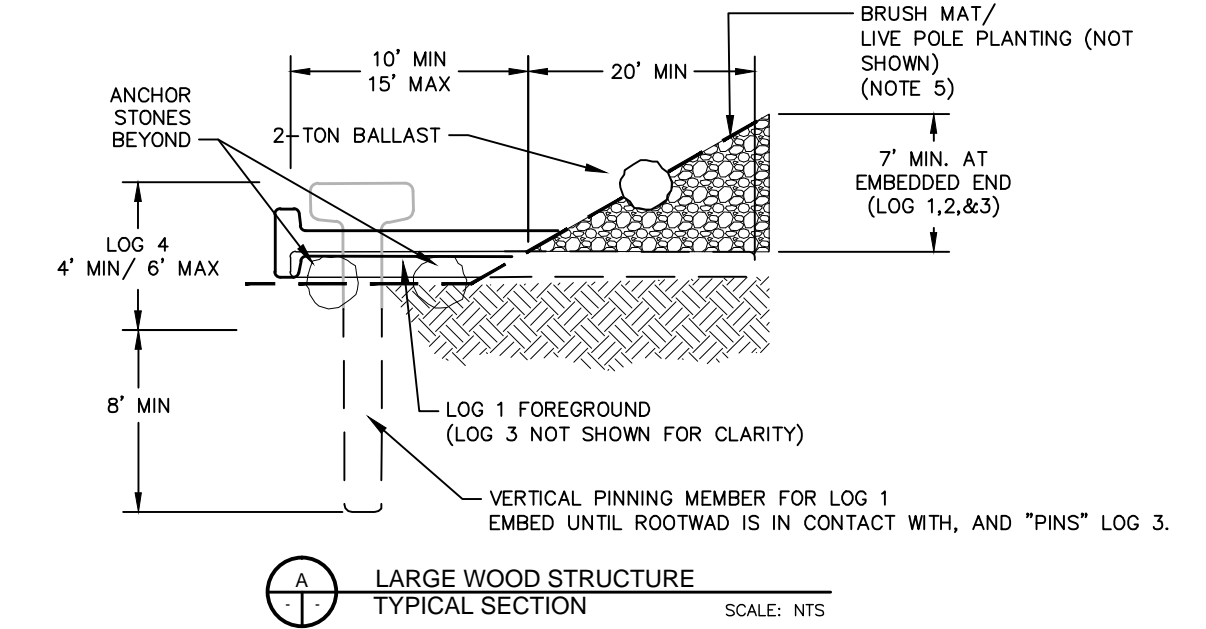
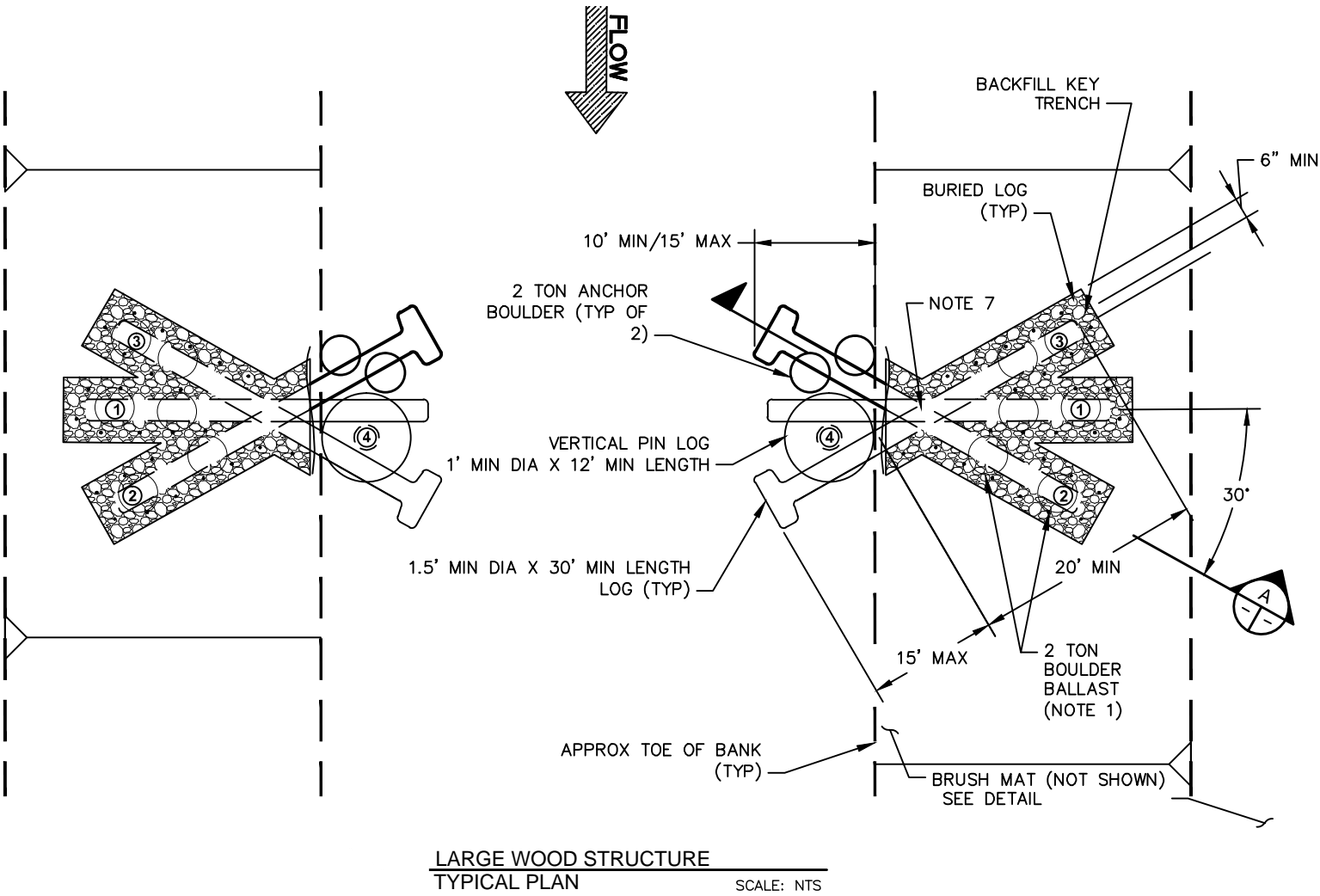
WILLOW BAFFLE
TYPICAL SECTION SCALE: NTS

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File: K:\projects\2012\2D\2076.00 - Napa River - Oakville to Oak Knoll\09 CAD\Drawings\Concept Refinements\DET All.swg

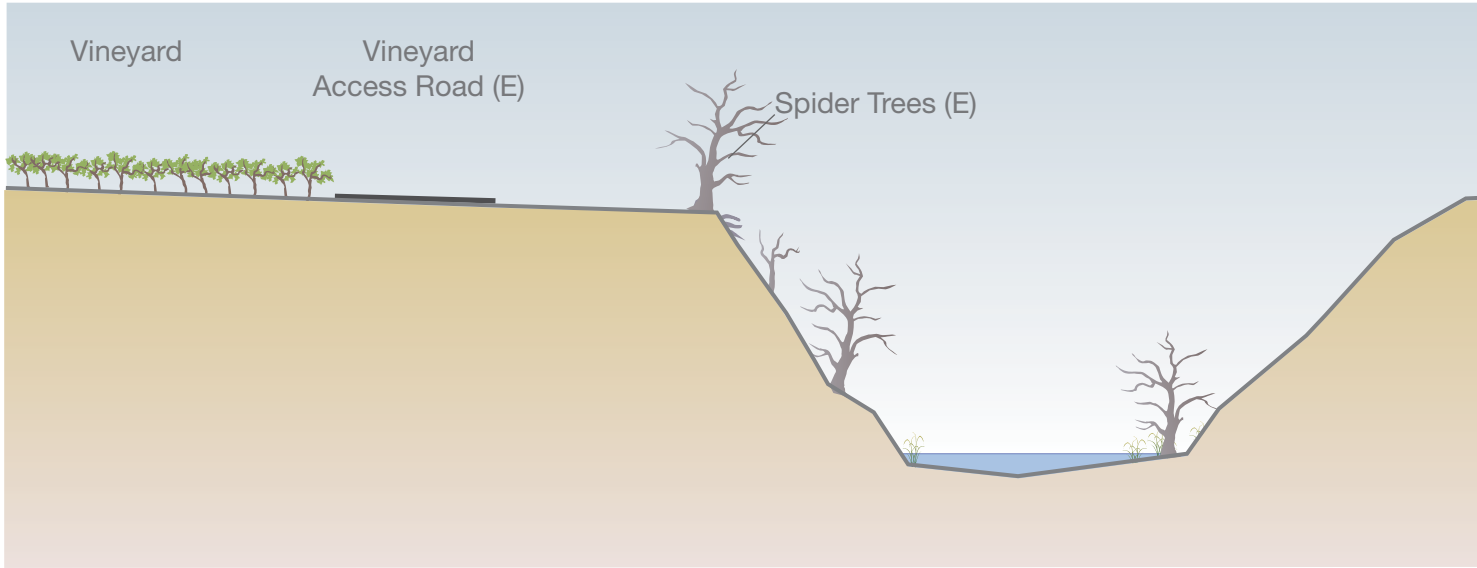


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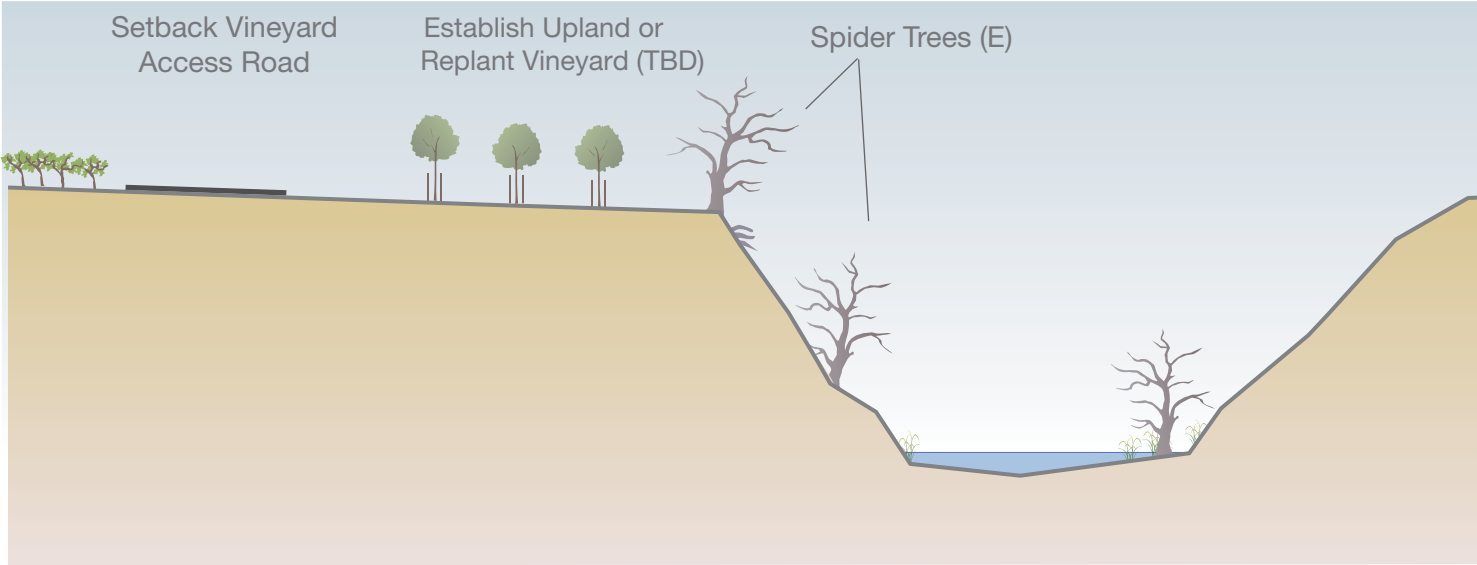
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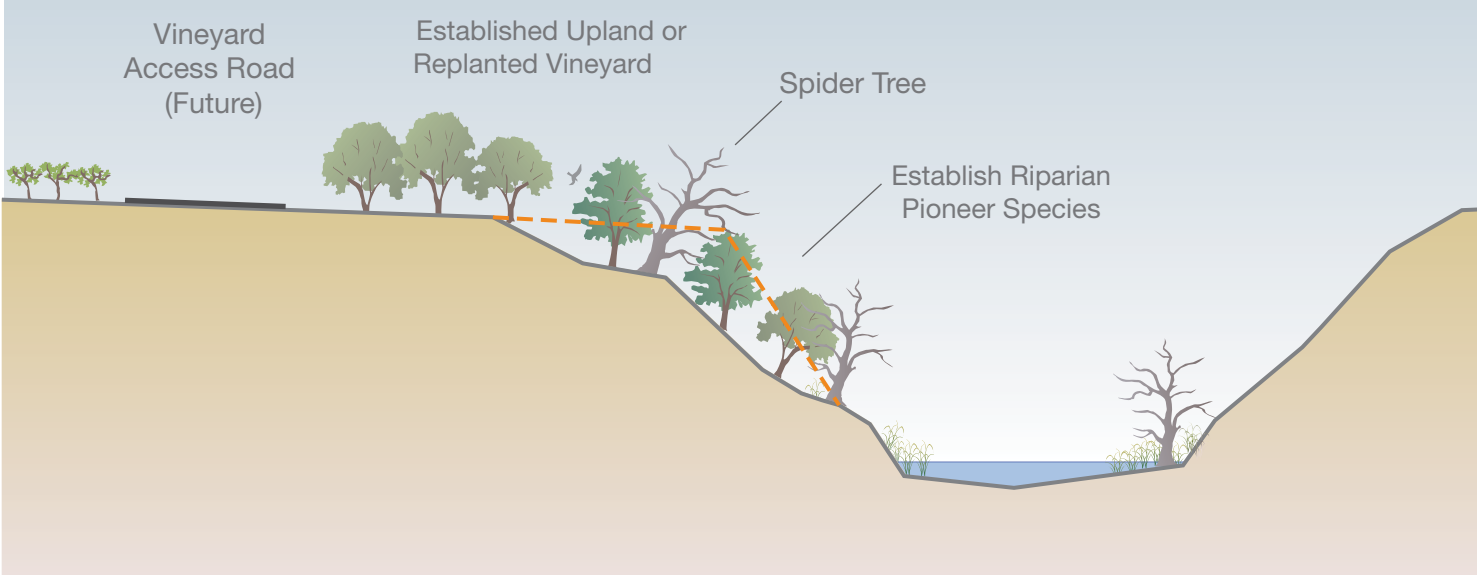
Existing



Project-phase 1



Project-phase 2



Future

