



Final Supplemental Watershed Plan No. 1 - Environmental Assessment

United States
Department of
Agriculture

Natural
Resources
Conservation
Service

Central Sonoma Watershed - Matanzas Creek Dam Rehabilitation Project
Sonoma County, California

Sponsoring Local Organization: Sonoma County Water Agency

Lead Agency: Natural Resources Conservation Service (NRCS)

October 2026

Appendix C - Support Maps



Appendix C. Support Maps

Map C-1. Selected Subwatersheds in Watershed Area

Map C-2. Critical Habitats

Map C-3. FEMA Floodplains

Map C-4. Prime and Unique Farmland

Map C-5. Dam Breach Inundation Area

Map C-6. Alternative 1 Overview

Map C-7. Alternative Inundation Areas

Map C-8. Alternative 2 Overview

Map C-9. Alternative 3 Overview

Map C-10. Area of Potential Effect

Map C-11. Modeled Flood Depths - Existing - 100-year

Map C-12. Modeled Flood Depths - Existing - 500-year

Map C-13. Modeled Flood Depths - Alternative 1 - 100-year

Map C-14. Modeled Flood Depths - Alternative 1 - 500-year

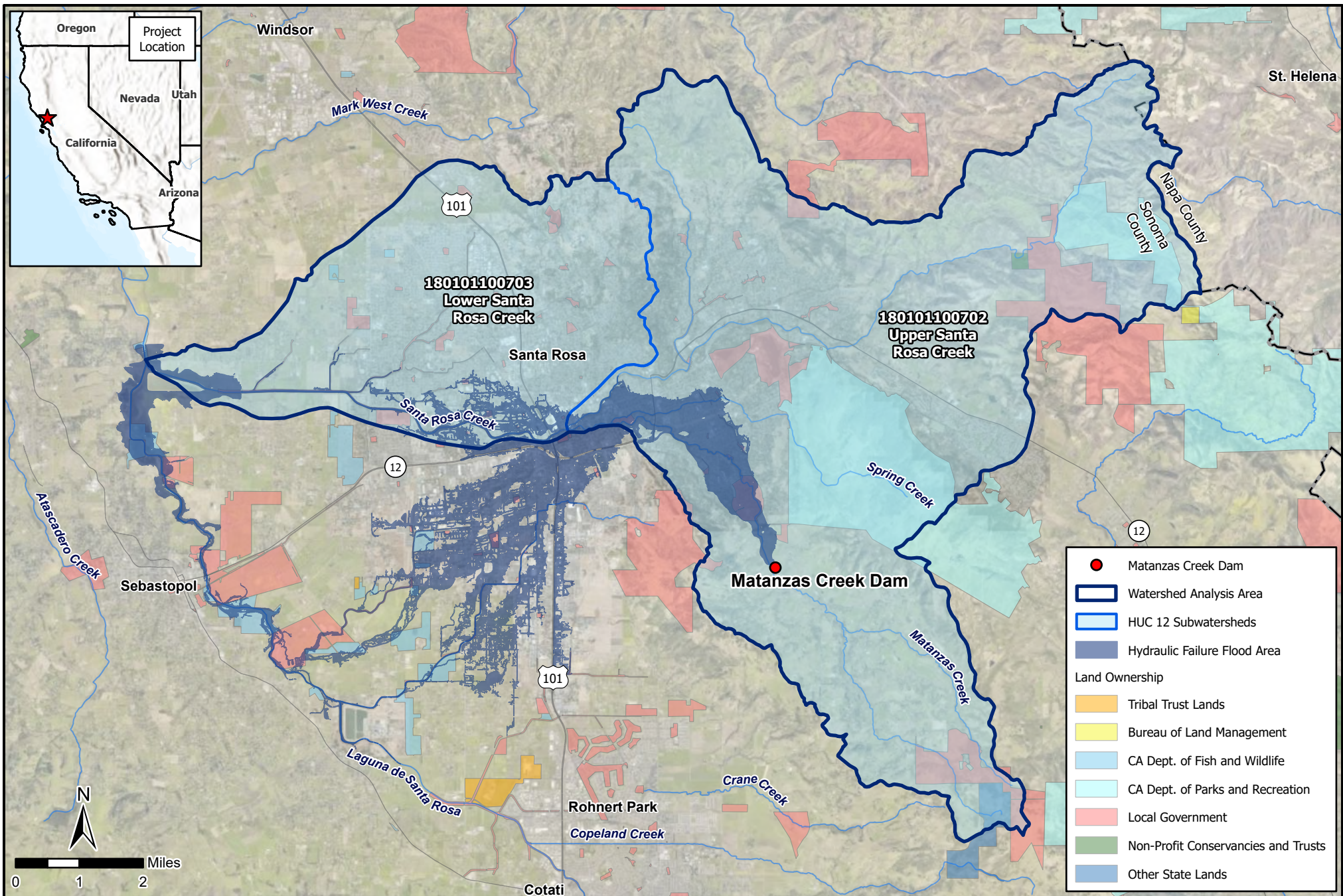
Map C-15. Modeled Flood Depths - Alternative 2 - 100-year

Map C-16. Modeled Flood Depths - Alternative 2 - 500-year

Map C-17. Modeled Flood Depths - Alternative 3 - 100-year

Map C-18. Modeled Flood Depths - Alternative 1 - 500-year

Map C-19. Land Rights Map Set



AECOM

Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Sonoma County

Watershed Analysis Area

Scale: 1" = 2 Miles

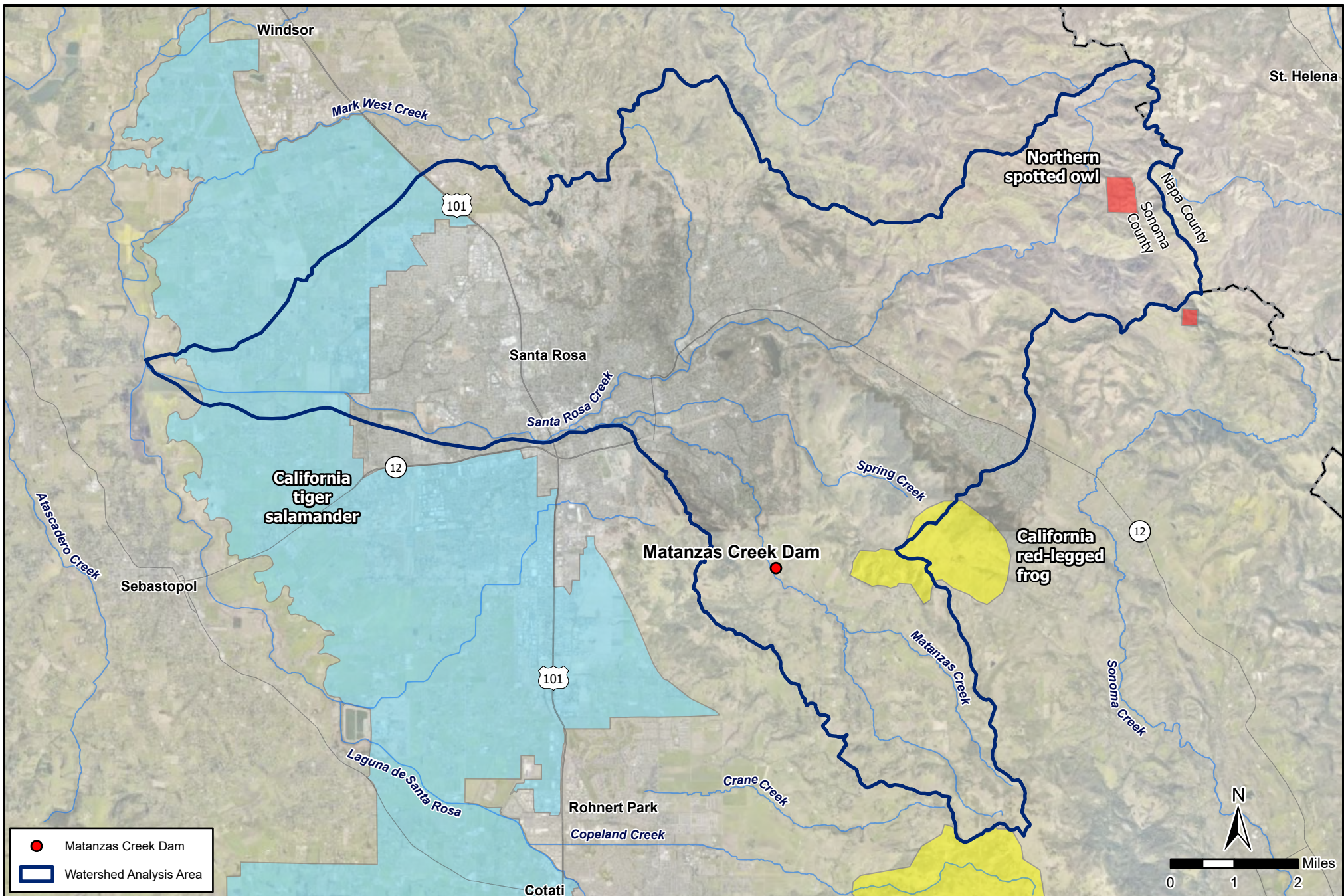
C-1

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Project Number: 2006-048

Drawn by: JWW 12-22

Last Edit: 03/22/2023



- Northern spotted owl (*Strix occidentalis caurina*)
- California red-legged frog (*Rana draytonii*)
- California tiger salamander (*Ambystoma californiense*)



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Sonoma County

Critical Habitats

Scale: 1" = 2 Miles

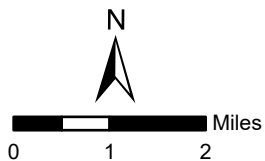
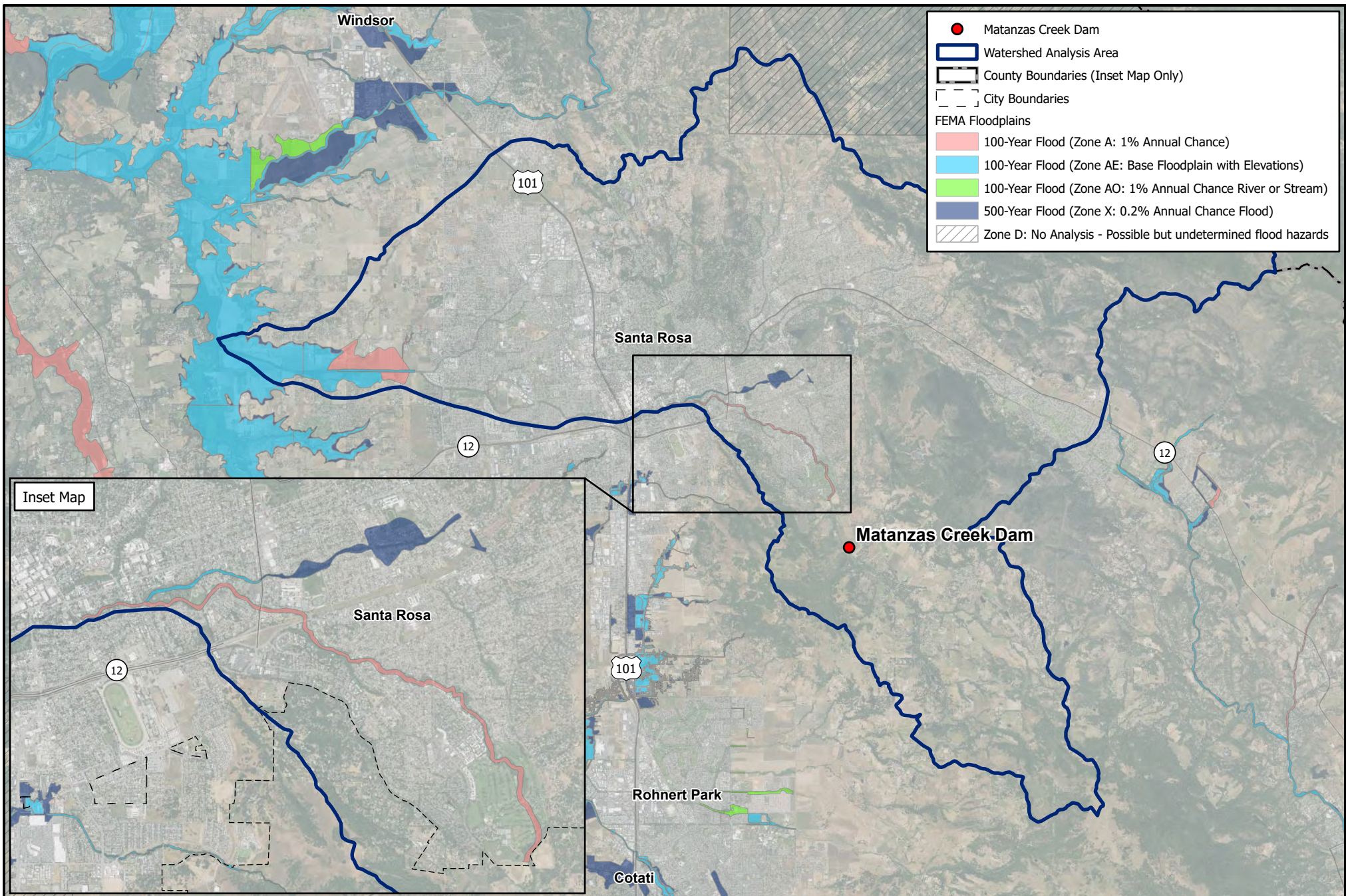
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Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C2 Matanzas Critical Habitats

Project Number: 2006-048

Drawn by: JWW 12-22

Last Edit: 03/22/2023



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Sonoma County

FEMA Floodplains

Scale: 1" = 2 Miles

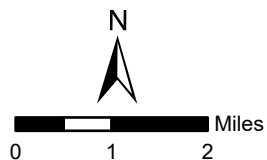
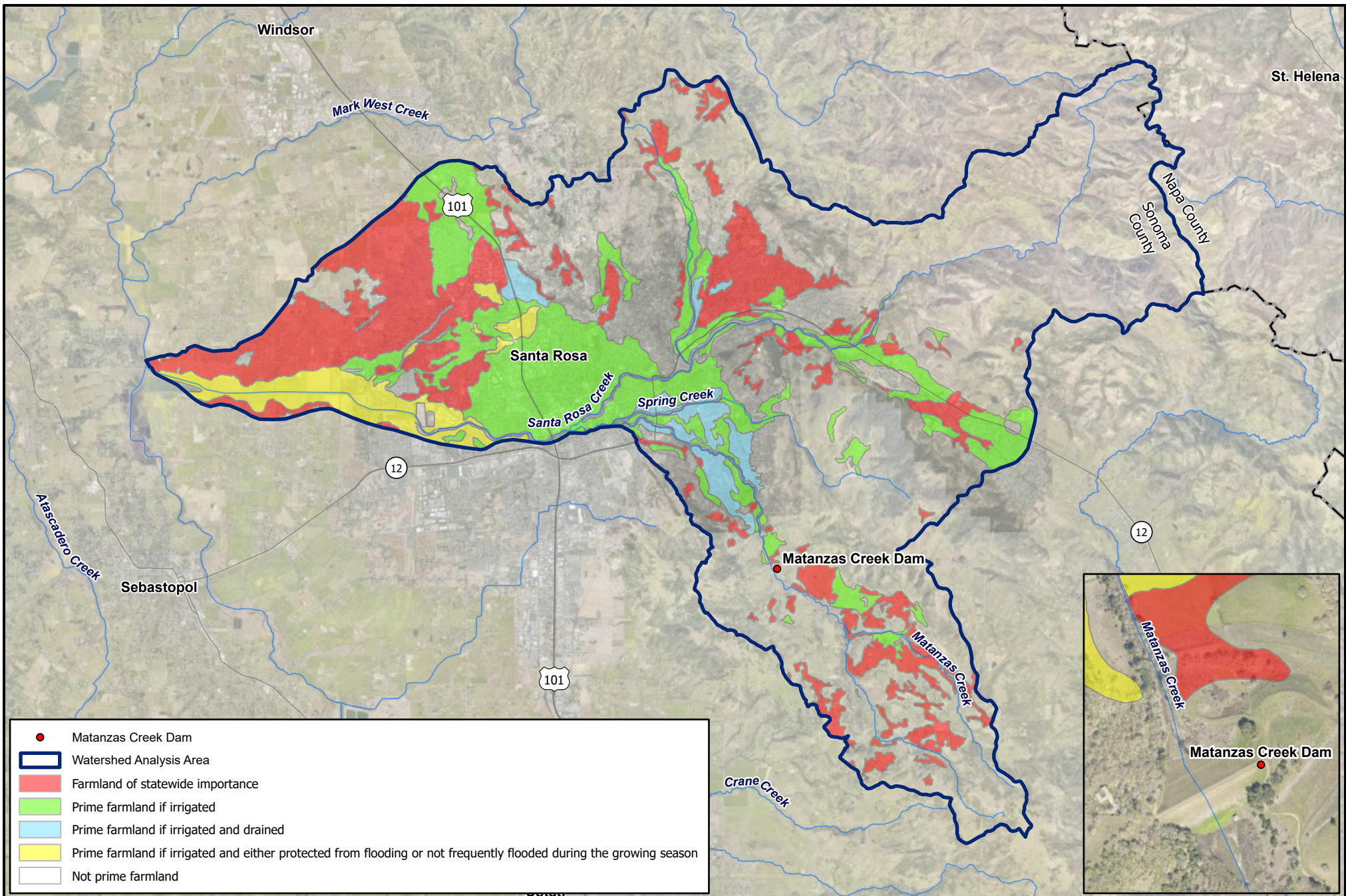
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Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\aprx - Exh C3 Matanzas FEMA Floodplains

Project Number: 2006-048

Drawn by: JWW 12-22

Last Edit: 05/06/2023



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Sonoma County

Prime and Unique Farmlands

Scale: 1" = 2 Miles

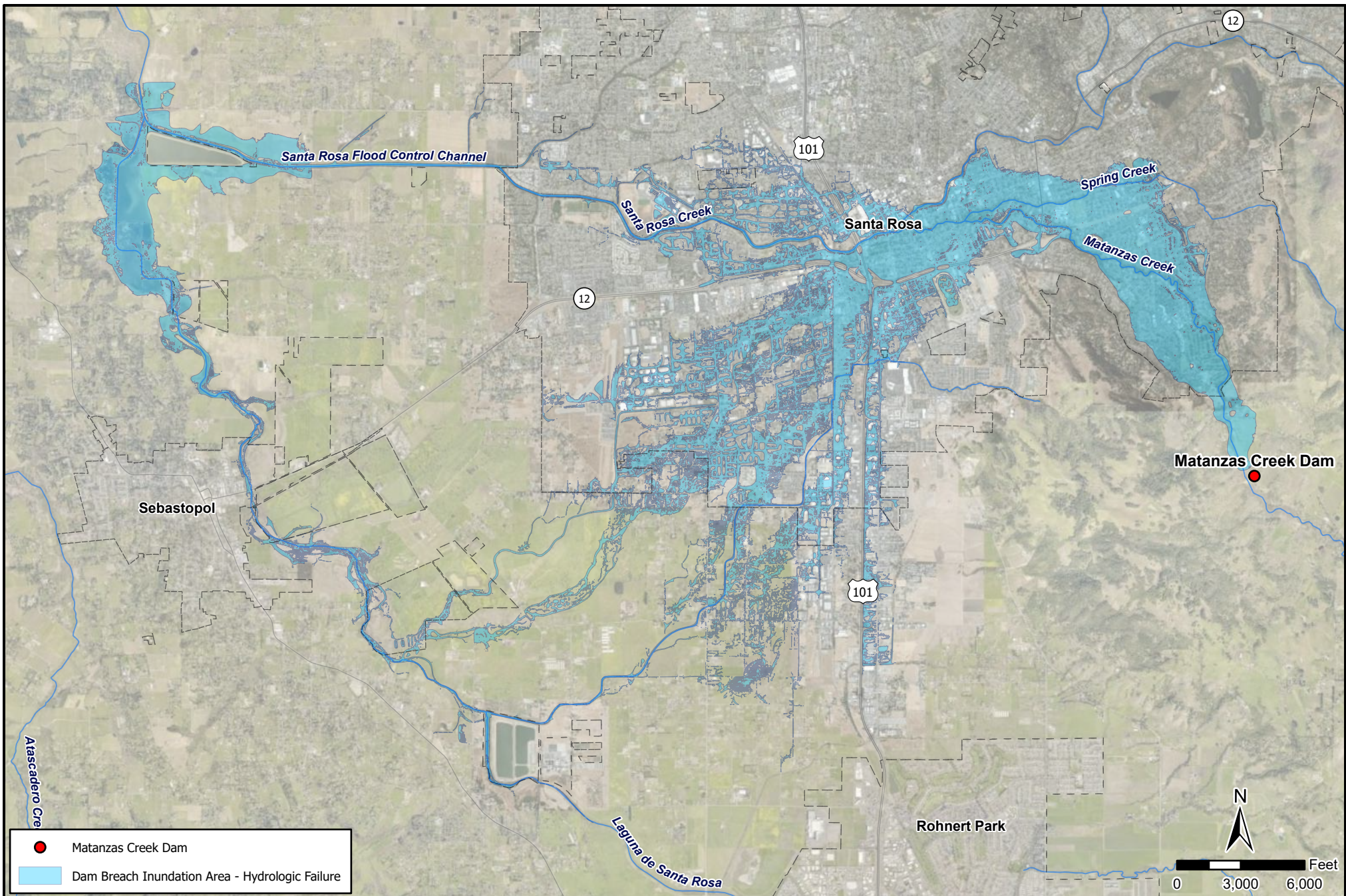
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Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C4 Matanzas Prime and Unique Farmland

Project Number: 2006-048

Drawn by: JWW 12-22

Last Edit: 03/22/2023



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

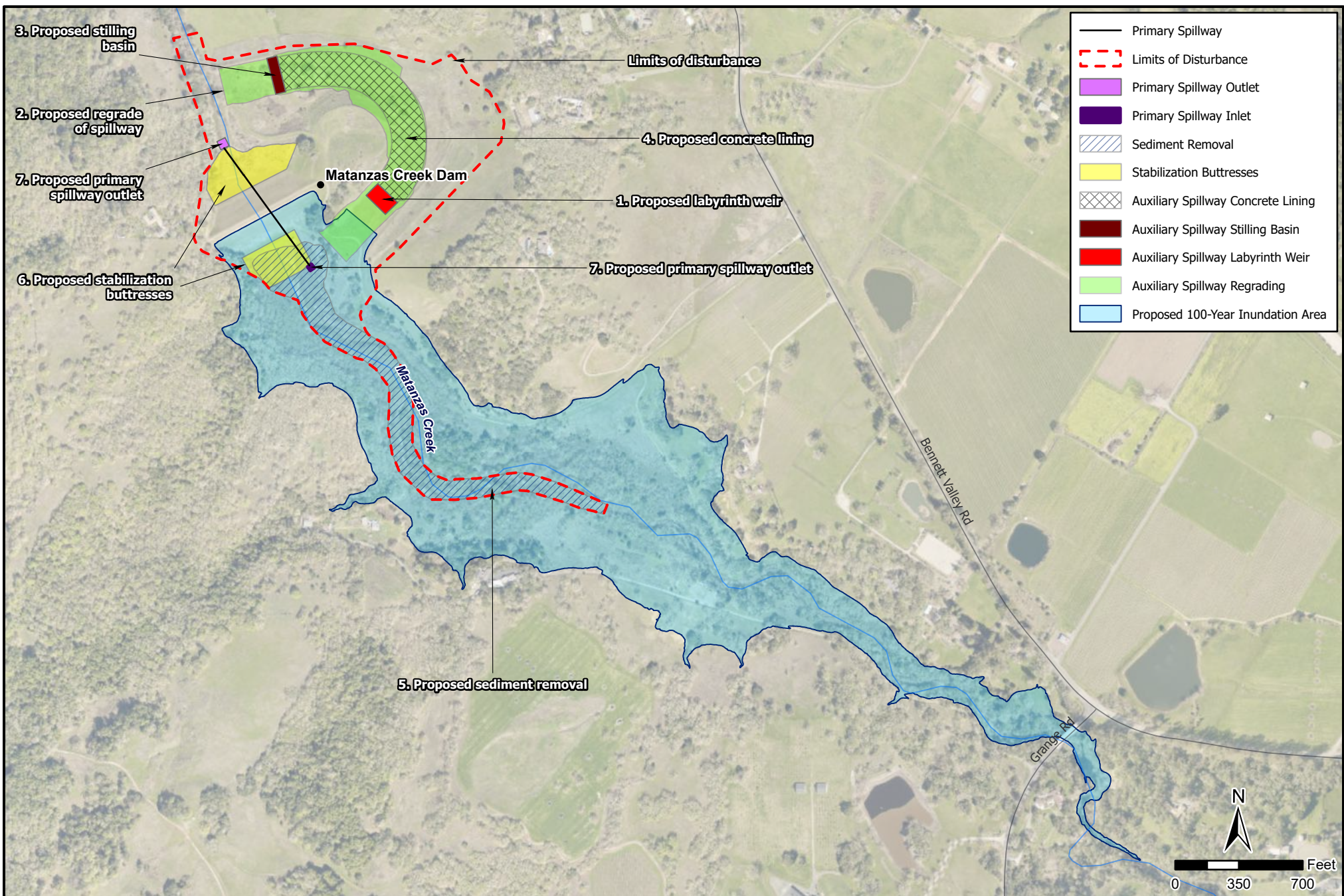
Sonoma County

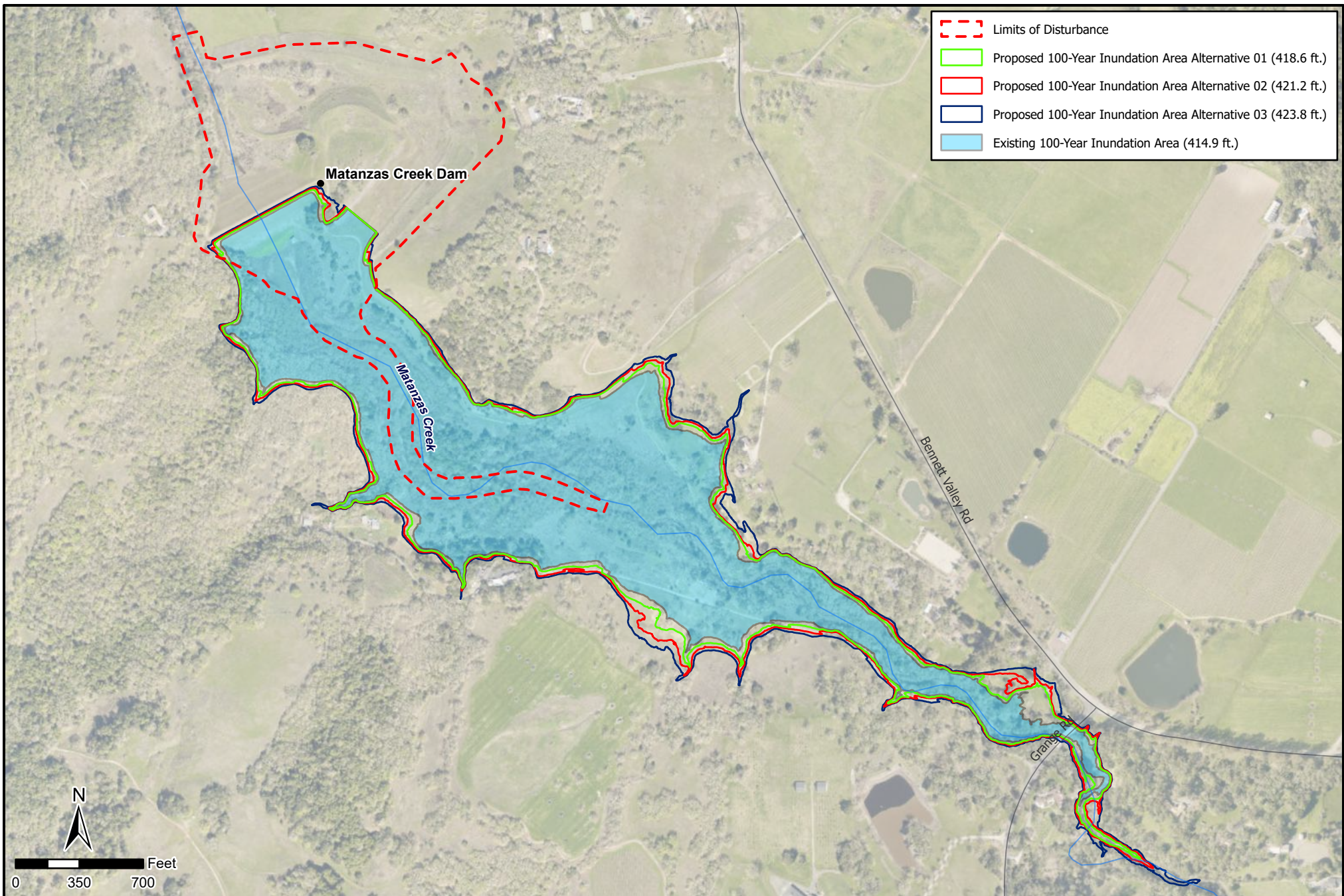
Dam Breach Inundation Area

Scale: 1" = 6,000'

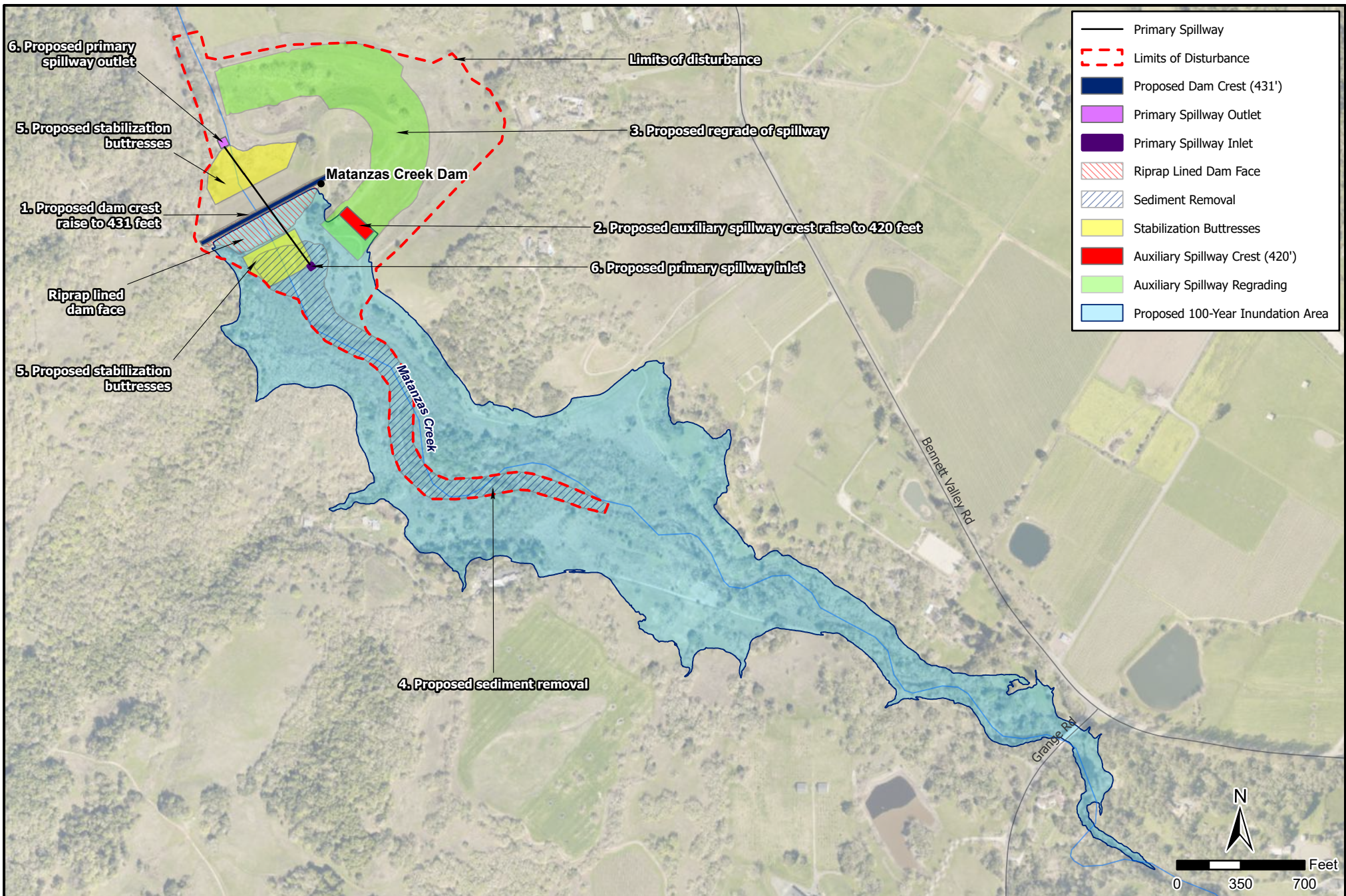
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 Project Number: 2006-048 Drawn by: JWW 12-22 Last Edit: 03/22/2023

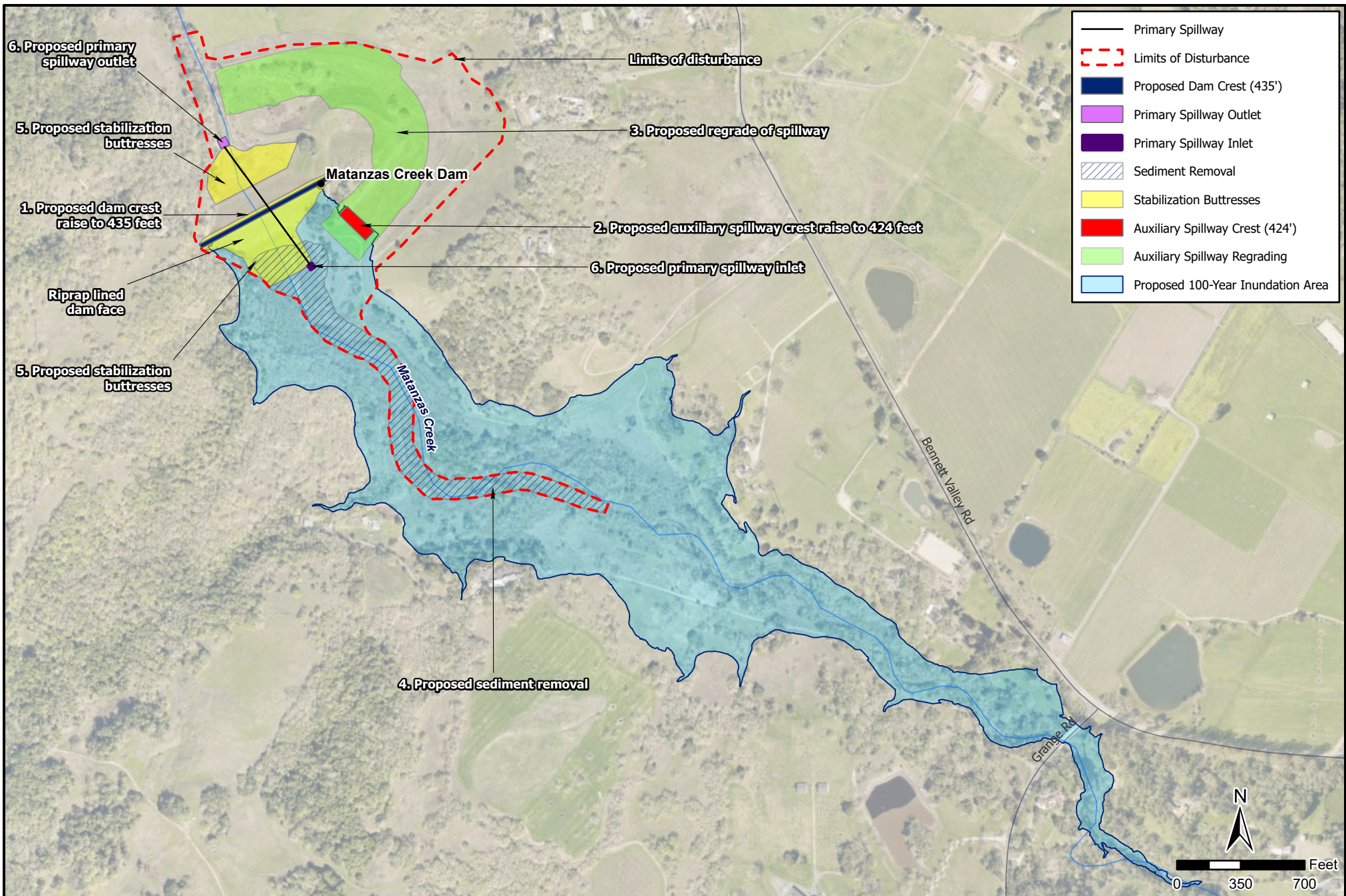
C-5

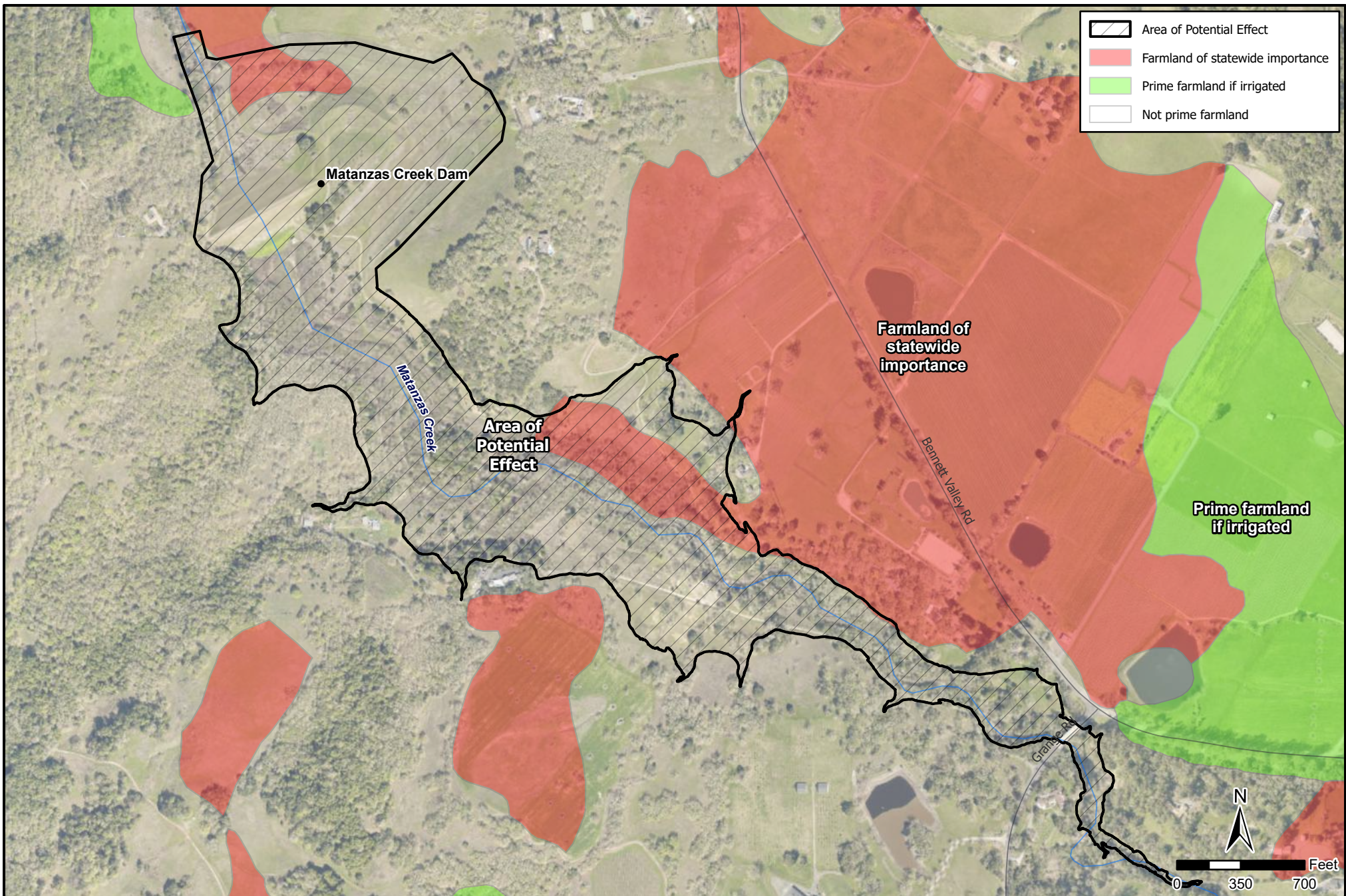




	 Jones & DeMille Engineering 	Central Sonoma Watershed Matanzas Creek Dam Rehabilitation			Sonoma County
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		Project Number: 2006-048	Drawn by: JWW 12-22	Last Edit: 03/22/2023	





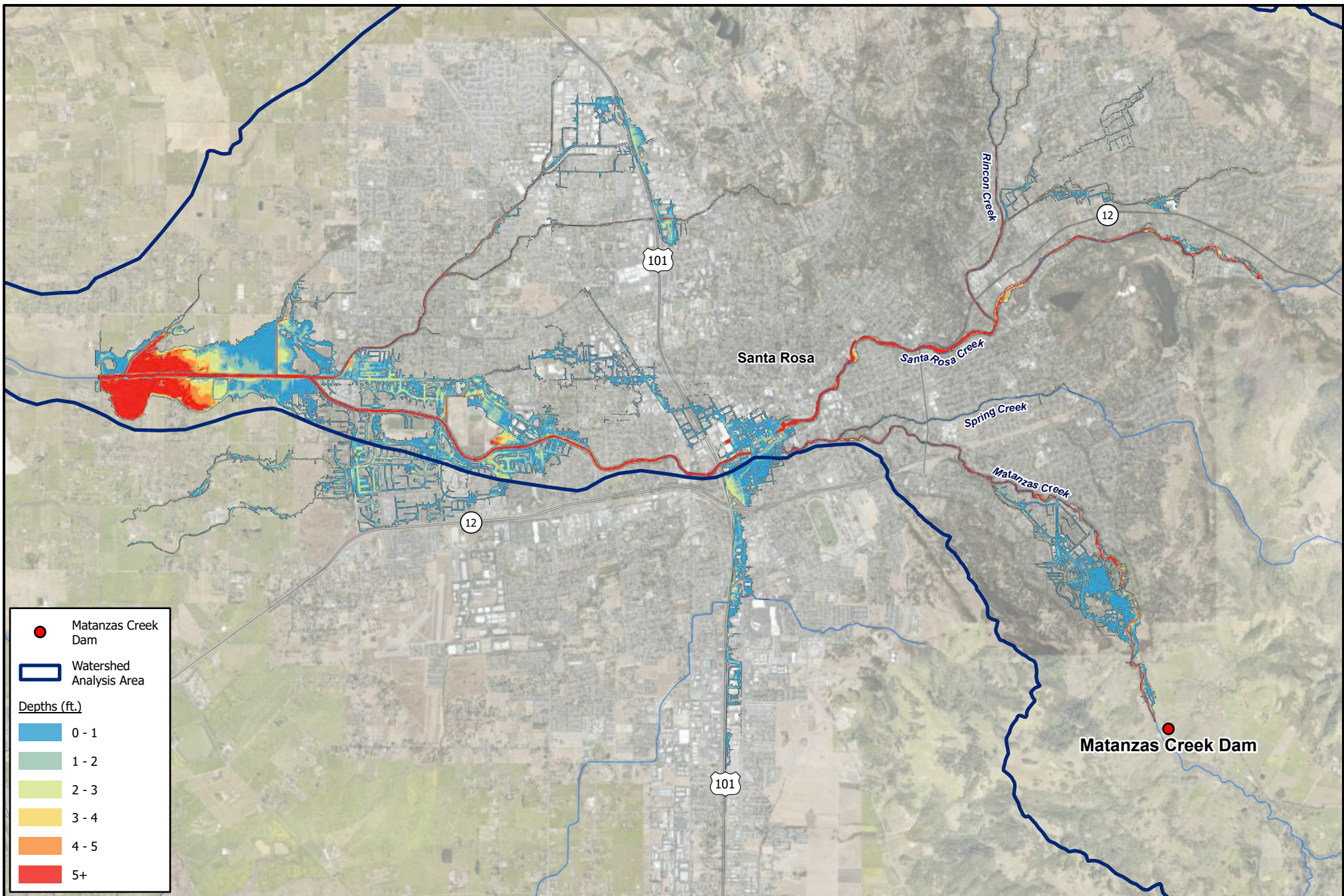




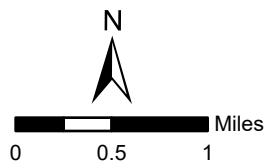
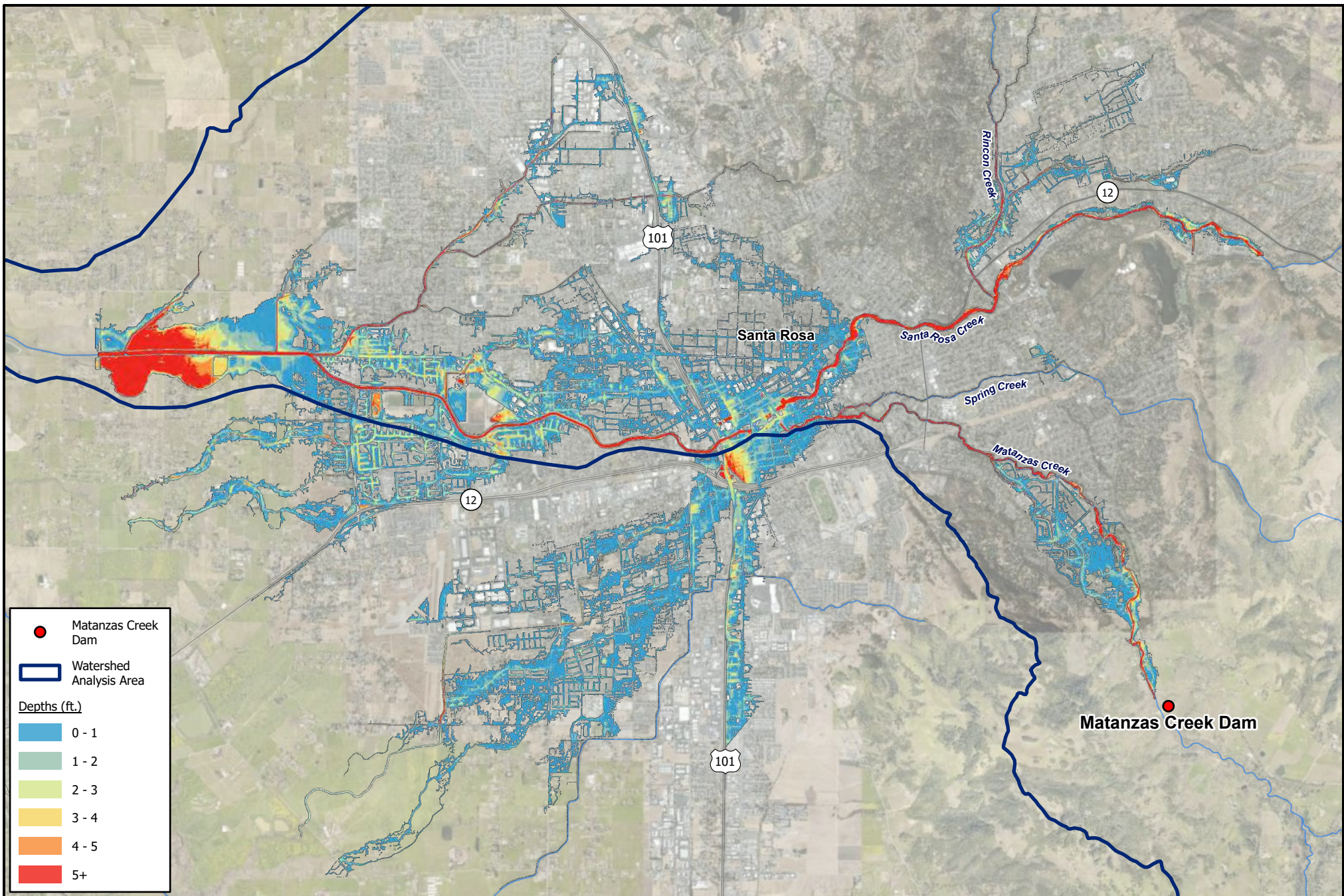
**Jones & DeMille
Engineering**



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation		Sonoma County
Area of Potential Effect		Scale: 1" = 700'
Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C10 Matanzas Area of Potential Effect Project Number: 2006-048 Drawn by: JWW 12-22 Last Edit: 03/22/2023		C-10



	 	Central Sonoma Watershed Matanzas Creek Dam Rehabilitation			Sonoma County
		Modeled Flood Depths - Existing 100-Year			Scale: 1" = 1 Miles
		Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C11 Modeled Flood Depths Existing 100YR			C-11
		Project Number: 2006-048	Drawn by: JEM 12-22	Last Edit: 03/22/2023	



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Modeled Flood Depths - Existing 500-Year

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Project Number: 2006-048

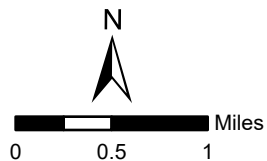
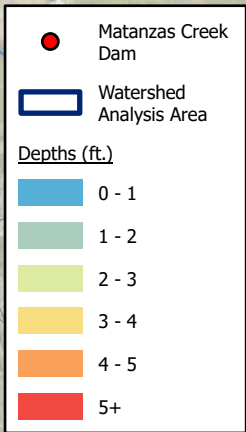
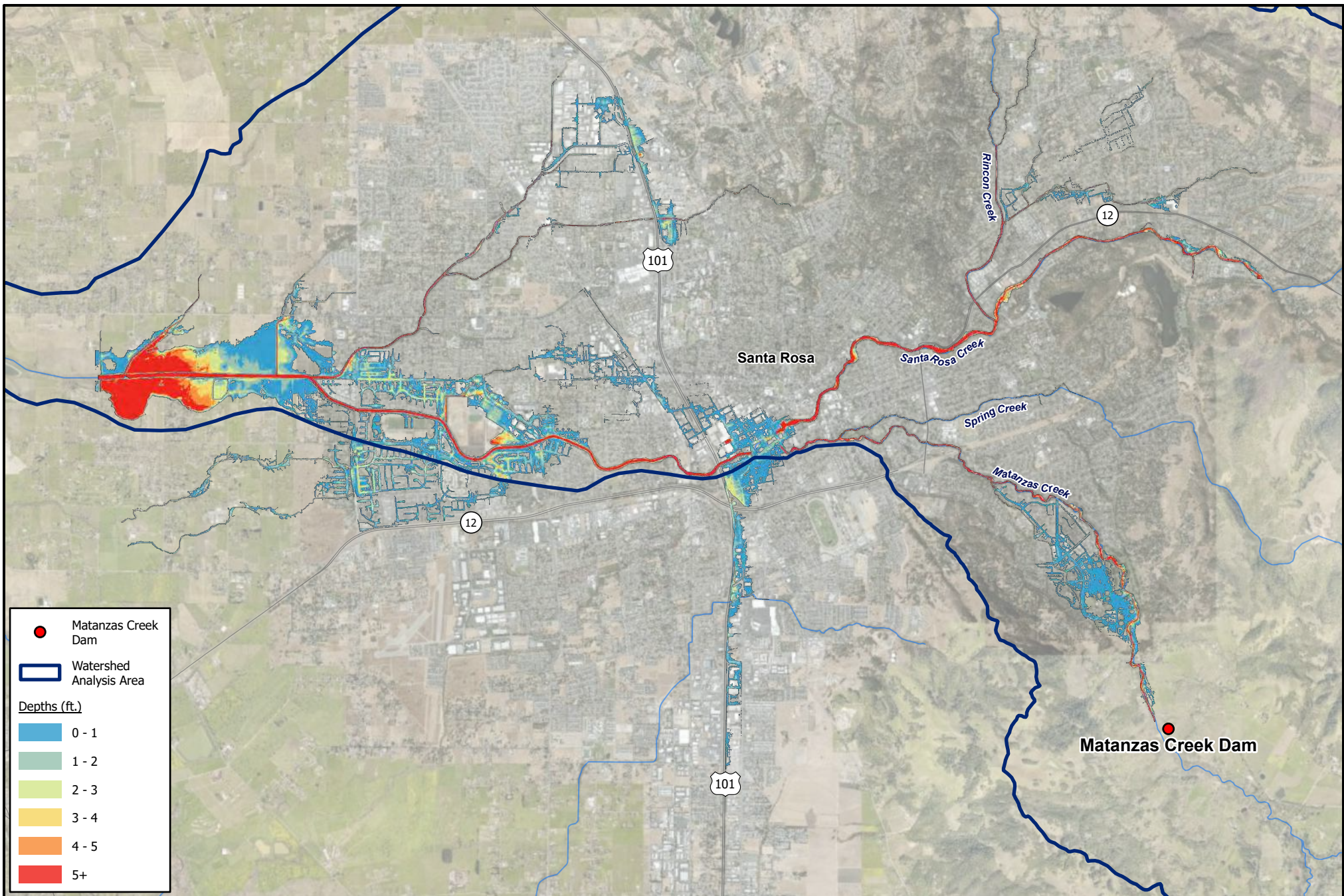
Drawn by: JEM 12-22

Last Edit: 03/22/2023

Sonoma County

Scale: 1" = 1 Miles

C-12



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Modeled Flood Depths - Proposed Alternative 1 - 100-Year

Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C13 Modeled Flood Depths - Proposed Alternative 1 - 100-year

Project Number: 2006-048

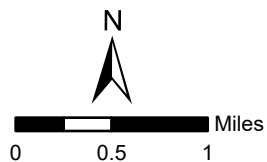
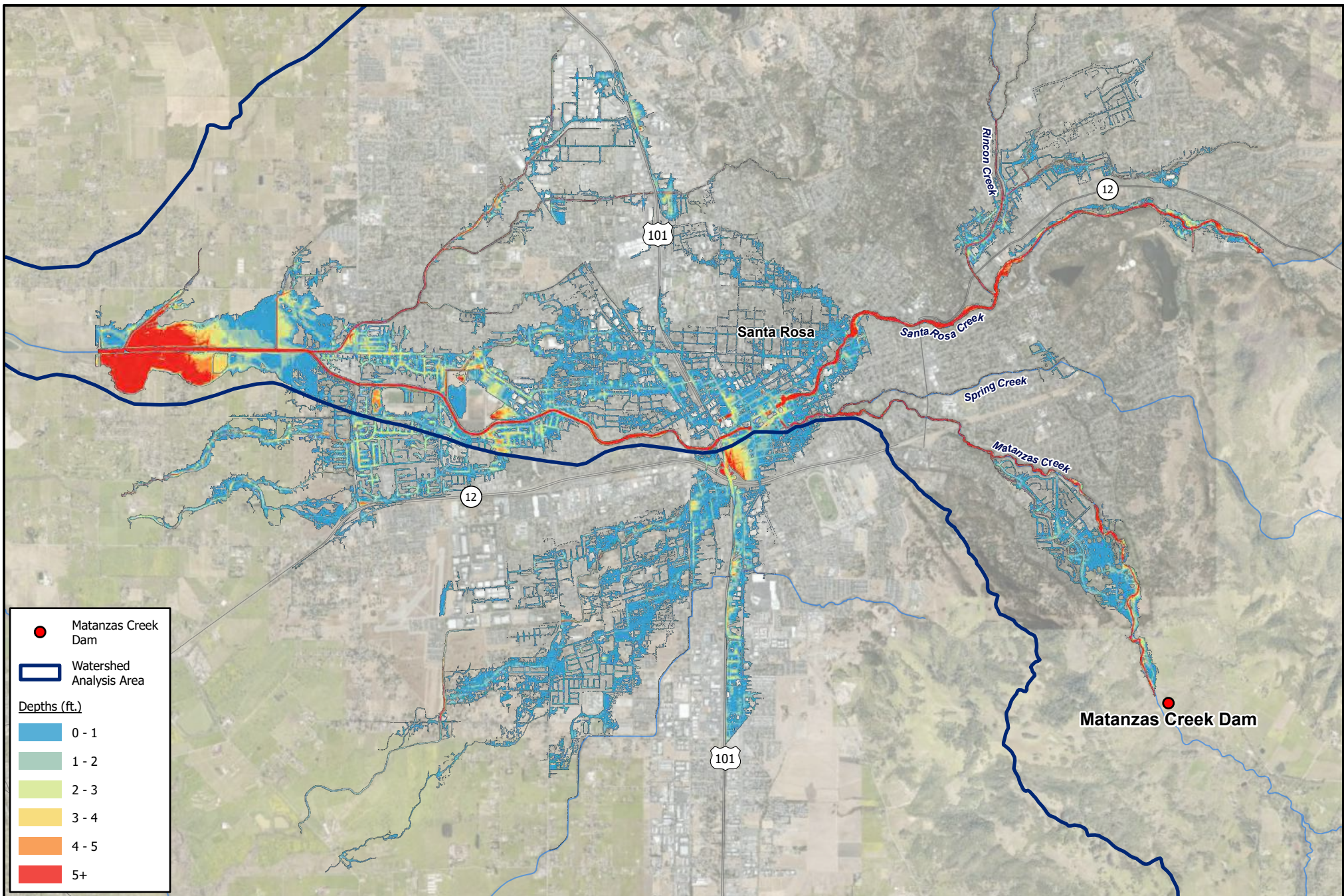
Drawn by: JEM 12-22

Last Edit: 03/22/2023

Sonoma County

Scale: 1" = 1 Miles

C-13



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Modeled Flood Depths - Proposed Alternative 1 - 500-Year

Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env.aprx - Exh C14 Modeled Flood Depths - Proposed Alternative 1 - 500-year

Project Number: 2006-048

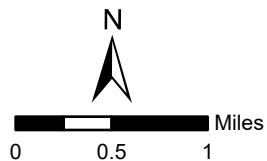
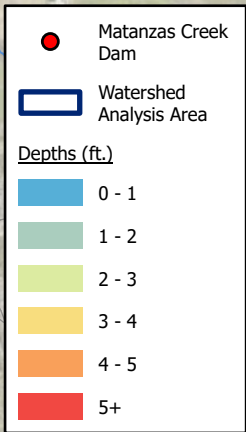
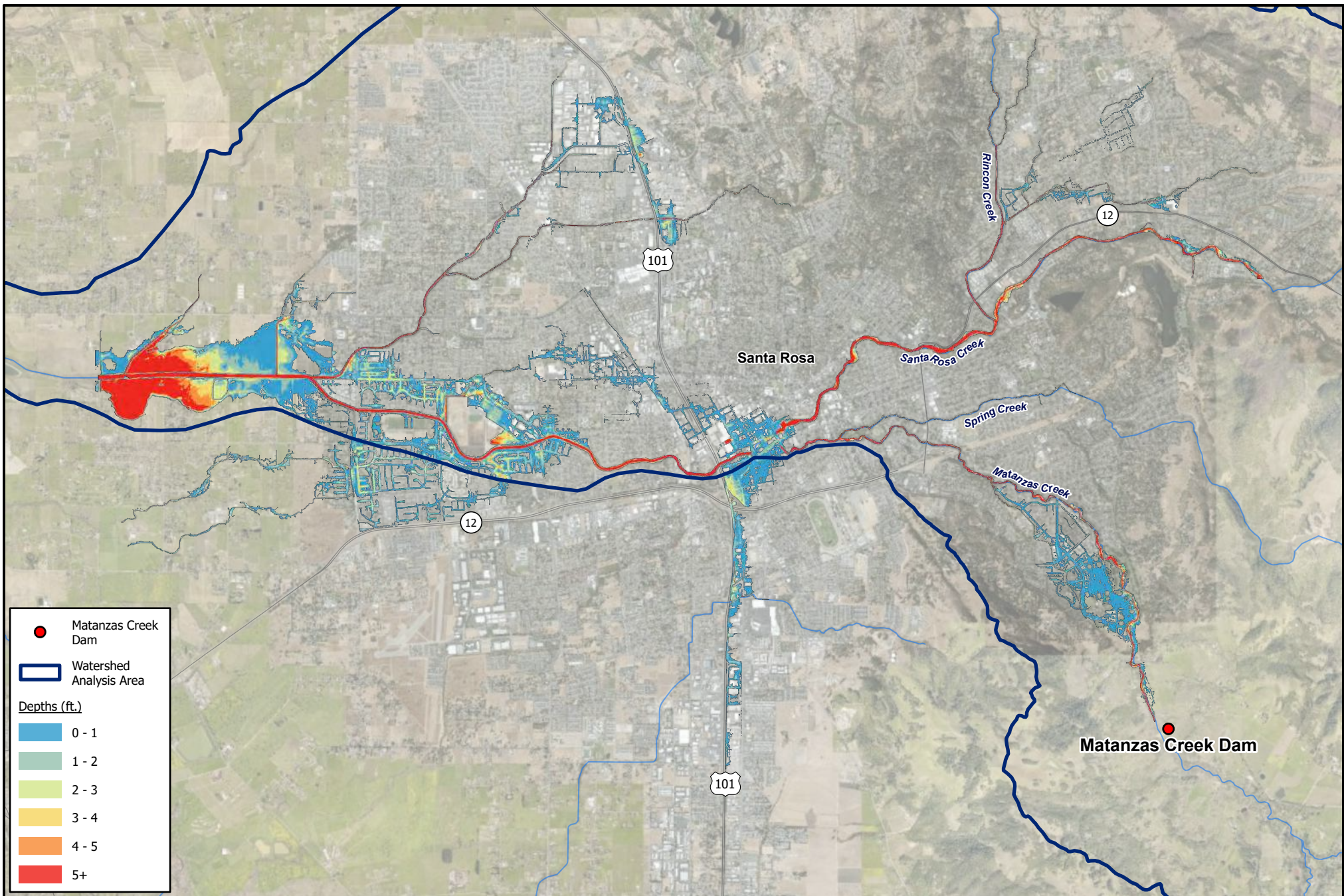
Drawn by: JEM 12-22

Last Edit: 03/22/2023

Sonoma County

Scale: 1" = 1 Miles

C-14



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Modeled Flood Depths - Proposed Alternative 2 - 100-Year

Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C15 Modeled Flood Depths - Proposed Alternative 2 - 100-year

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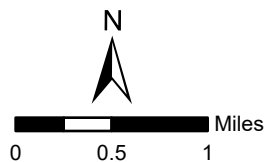
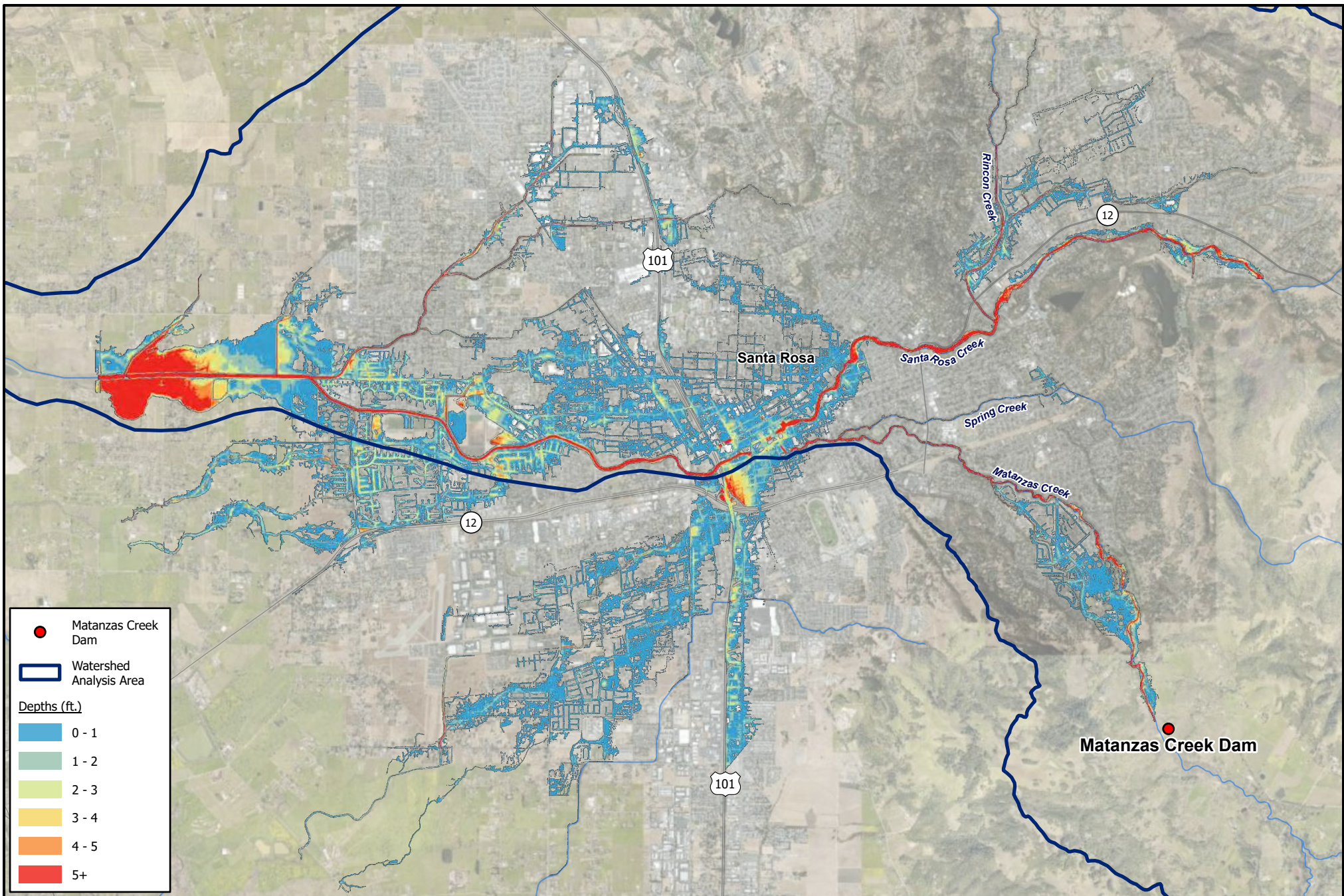
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Last Edit: 03/22/2023

Sonoma County

Scale: 1" = 1 Miles

C-15



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

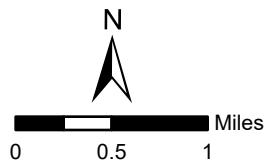
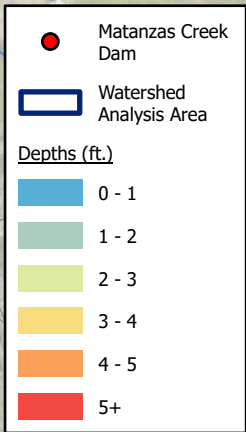
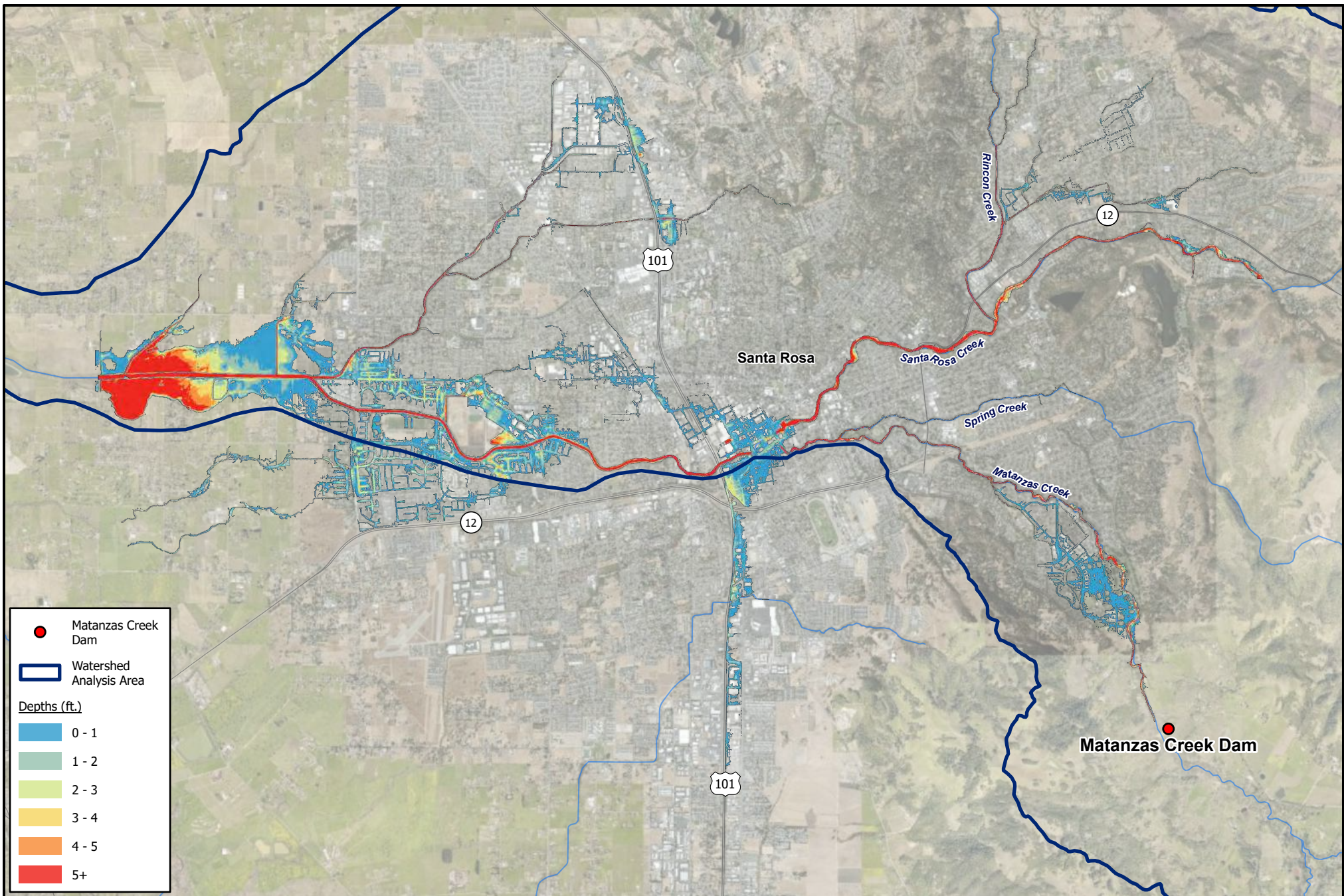
Modeled Flood Depths - Proposed Alternative 2 - 500-Year

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Sonoma County

Scale: 1" = 1 Miles

C-16



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Modeled Flood Depths - Proposed Alternative 3 - 100-Year

Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Env\2006-048_Env.aprx - Exh C17 Modeled Flood Depths - Proposed Alternative 3 - 100-year

Project Number: 2006-048

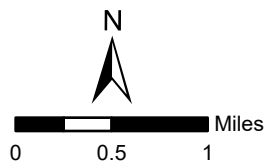
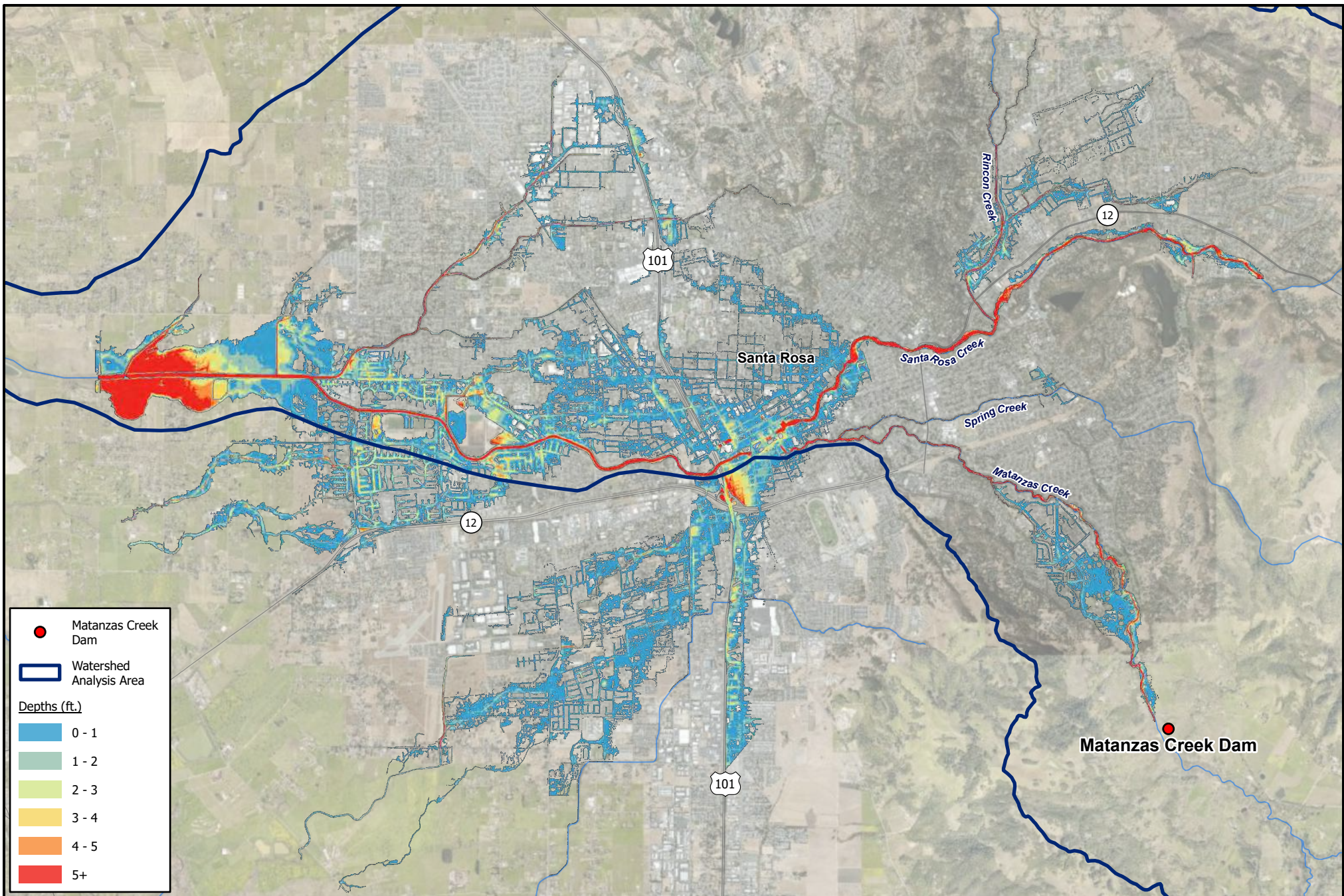
Drawn by: JEM 12-22

Last Edit: 03/22/2023

Sonoma County

Scale: 1" = 1 Miles

C-17



Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

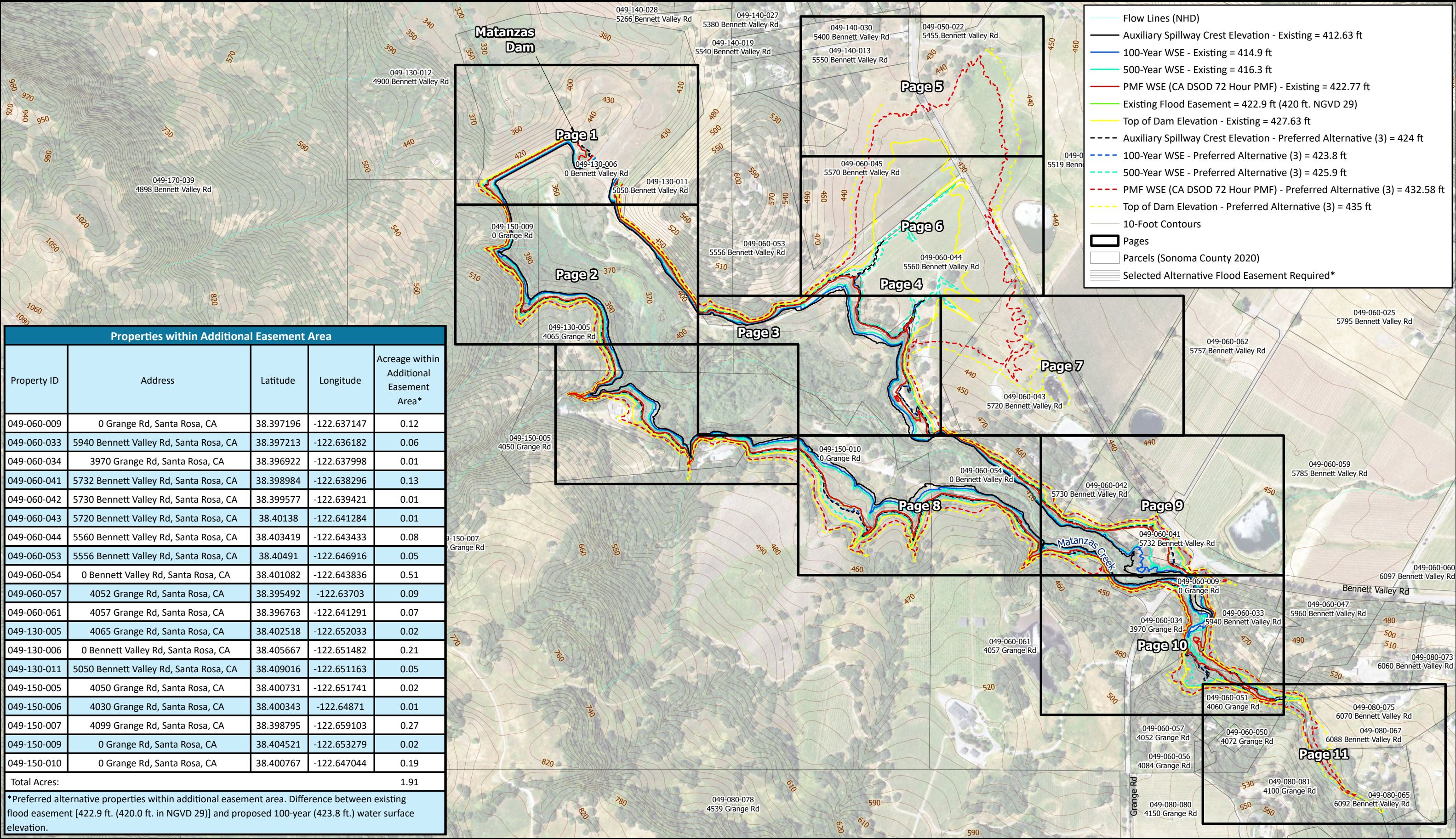
Modeled Flood Depths - Proposed Alternative 3 - 500-Year

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Sonoma County

Scale: 1" = 1 Miles

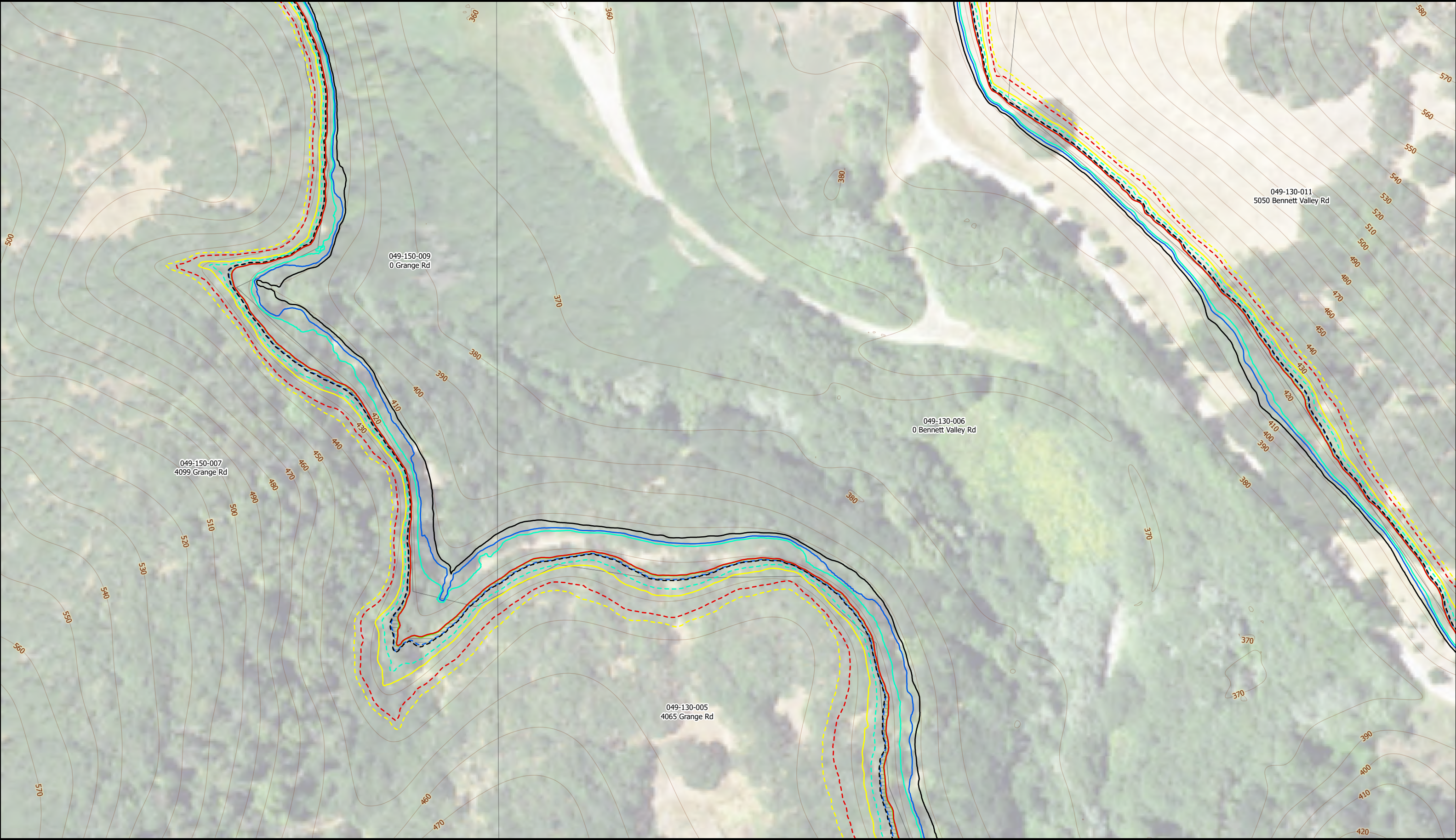
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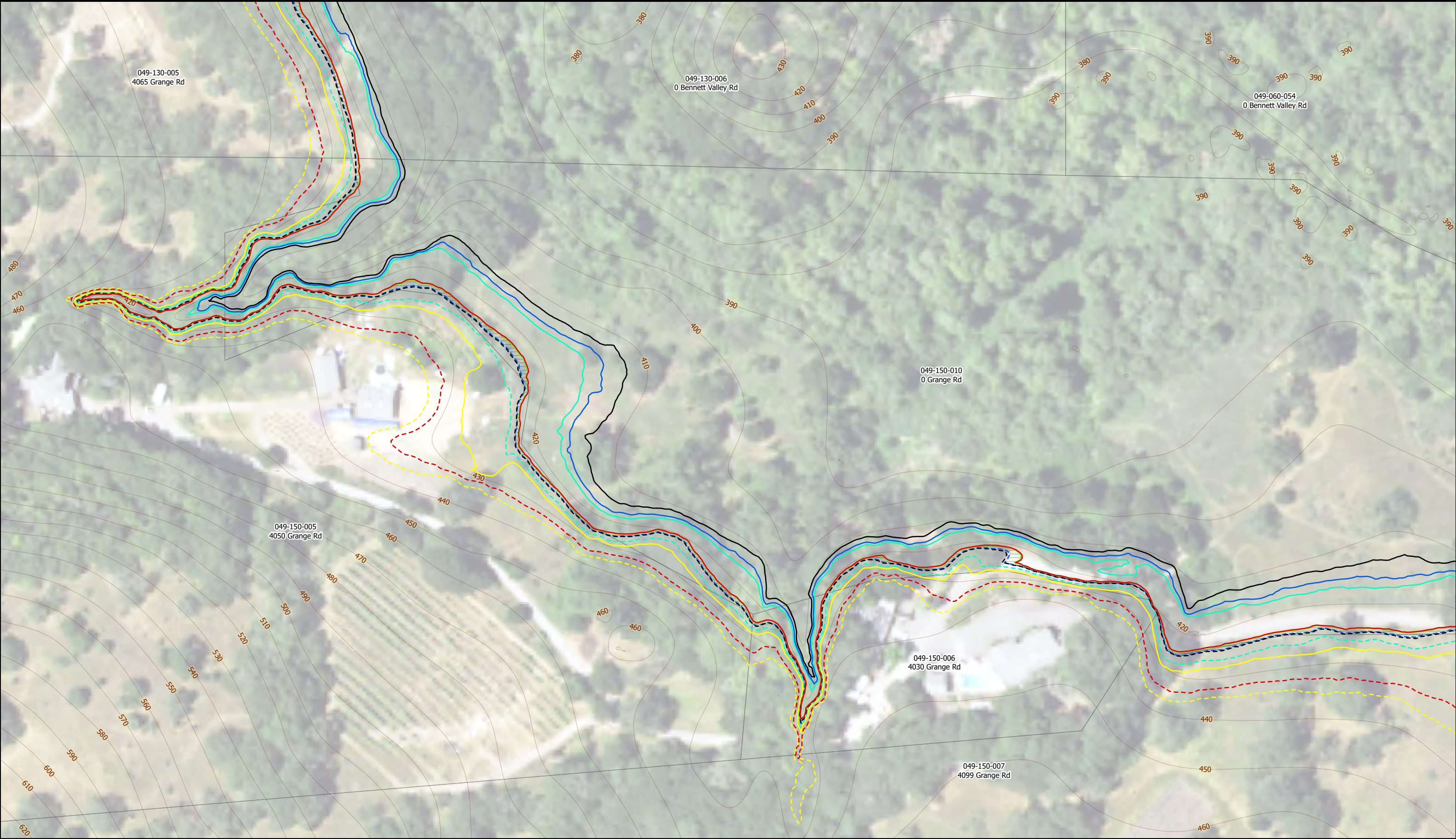
Properties within Additional Easement Area				
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049-060-033	5940 Bennett Valley Rd, Santa Rosa, CA	38.397213	-122.636182	0.06
049-060-034	3970 Grange Rd, Santa Rosa, CA	38.396922	-122.637998	0.01
049-060-041	5732 Bennett Valley Rd, Santa Rosa, CA	38.398984	-122.638296	0.13
049-060-042	5730 Bennett Valley Rd, Santa Rosa, CA	38.399577	-122.639421	0.01
049-060-043	5720 Bennett Valley Rd, Santa Rosa, CA	38.40138	-122.641284	0.01
049-060-044	5560 Bennett Valley Rd, Santa Rosa, CA	38.403419	-122.643433	0.08
049-060-053	5556 Bennett Valley Rd, Santa Rosa, CA	38.40491	-122.646916	0.05
049-060-054	0 Bennett Valley Rd, Santa Rosa, CA	38.401082	-122.643836	0.51
049-060-057	4052 Grange Rd, Santa Rosa, CA	38.395492	-122.63703	0.09
049-060-061	4057 Grange Rd, Santa Rosa, CA	38.396763	-122.641291	0.07
049-130-005	4065 Grange Rd, Santa Rosa, CA	38.402518	-122.652033	0.02
049-130-006	0 Bennett Valley Rd, Santa Rosa, CA	38.405667	-122.651482	0.21
049-130-011	5050 Bennett Valley Rd, Santa Rosa, CA	38.409016	-122.651163	0.05
049-150-005	4050 Grange Rd, Santa Rosa, CA	38.400731	-122.651741	0.02
049-150-006	4030 Grange Rd, Santa Rosa, CA	38.400343	-122.64871	0.01
049-150-007	4099 Grange Rd, Santa Rosa, CA	38.398795	-122.659103	0.27
049-150-009	0 Grange Rd, Santa Rosa, CA	38.404521	-122.653279	0.02
049-150-010	0 Grange Rd, Santa Rosa, CA	38.400767	-122.647044	0.19
Total Acres:				1.91
*Preferred alternative properties within additional easement area. Difference between existing flood easement [422.9 ft. (420.0 ft. in NGVD 29)] and proposed 100-year (423.8 ft.) water surface elevation.				

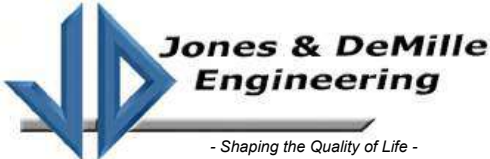


10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-1
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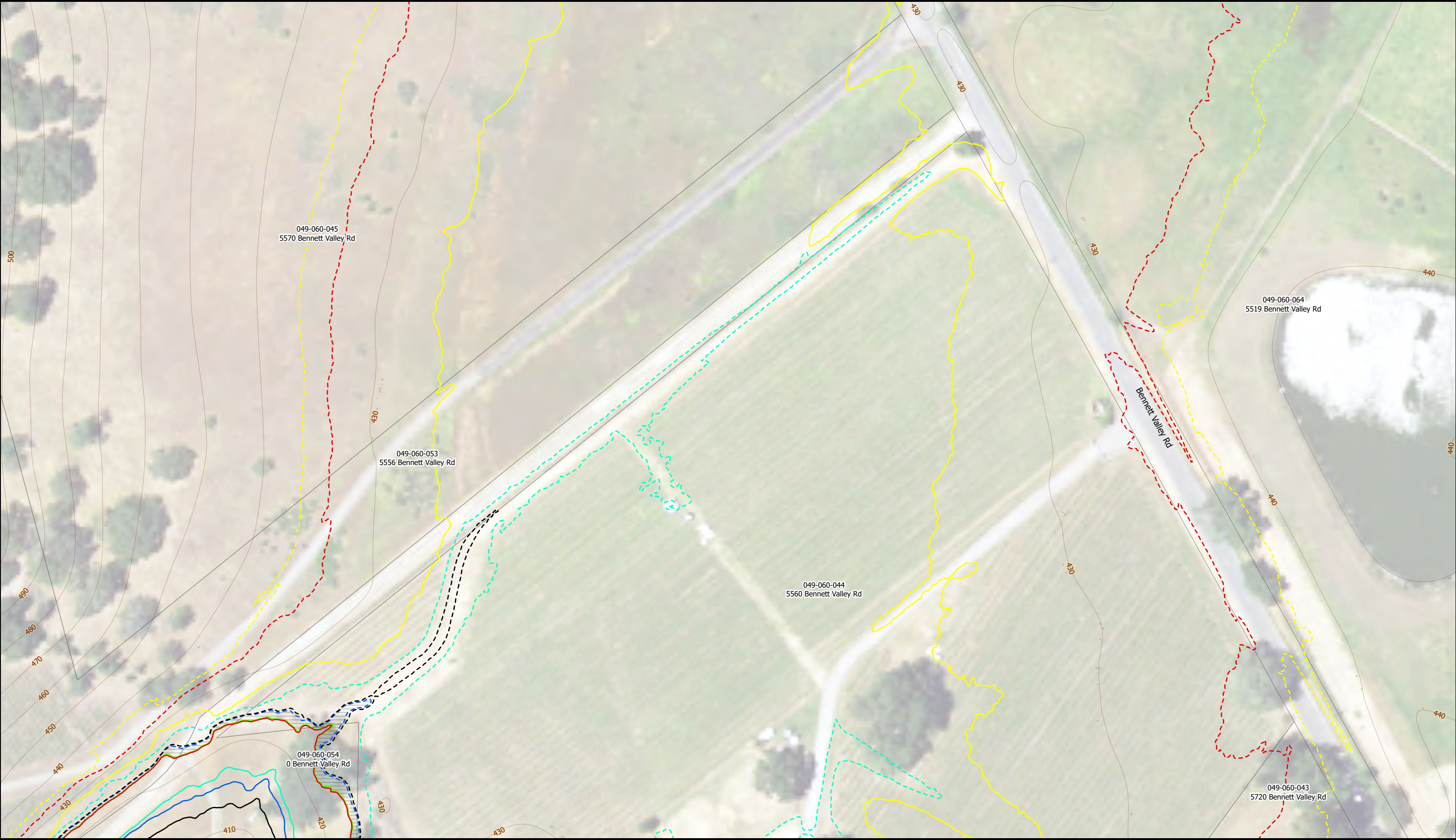
10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 0 50 100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com	Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024	Sonoma County Scale: 1" = 100' C19-2
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10-Foot Contours - Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft - PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft - Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) - Top of Dam Elevation - Existing = 427.63 ft	- Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft - PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft - Top of Dam Elevation - Preferred Alternative (3) = 435 ft - Selected Alternative Flood Easement Required	N 0 50 100 Feet	 Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com	Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024	Sonoma County Scale: 1" = 100' C19-3
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10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft	Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-5
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10-Foot Contours	--- Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft
--- Auxiliary Spillway Crest Elevation - Existing = 412.63 ft	--- 100-Year WSE - Preferred Alternative (3) = 423.8 ft
--- 100-Year WSE - Existing = 414.9 ft	--- 500-Year WSE - Preferred Alternative (3) = 425.9 ft
--- 500-Year WSE - Existing = 416.3 ft	--- PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft
--- PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft	--- Top of Dam Elevation - Preferred Alternative (3) = 435 ft
--- Existing Flood Easement = 422.9 ft (420 ft. NGVD 29)	--- Selected Alternative Flood Easement Required
--- Top of Dam Elevation - Existing = 427.63 ft	

0 50 100 Feet

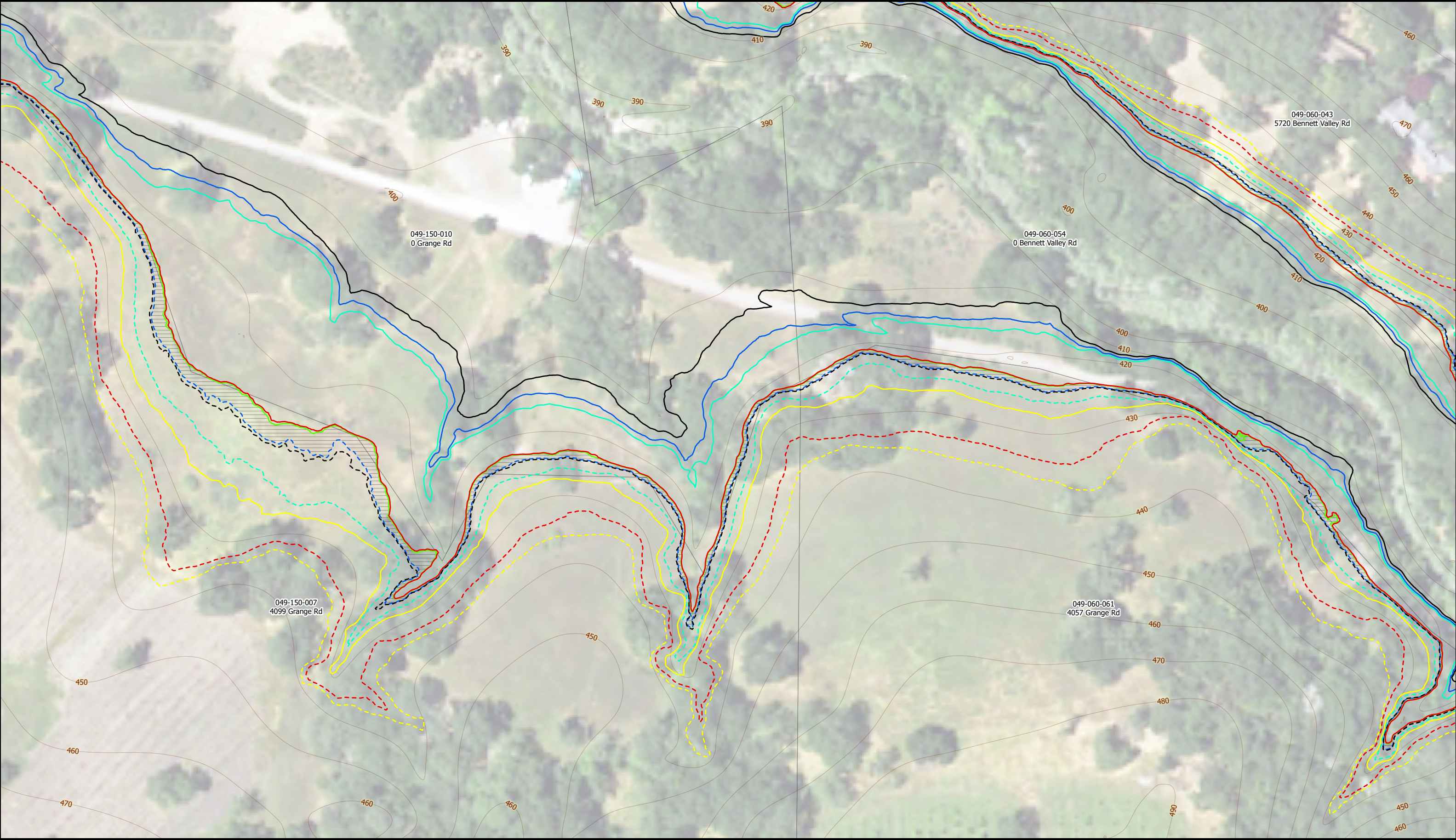
Jones & DeMille Engineering

- Shaping the Quality of Life -
800.748.5275 www.jonesanddemille.com

Central Sonoma Watershed Matanzas Creek Dam Rehabilitation			Sonoma County
Preferred Alternative Land Rights Map			Scale: 1" = 100'
Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations			C19-6
Project Number: 2006-048	Drawn by: JWW 10-24	Last Edit: 11/22/2024	



10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-7
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10-Foot Contours

Auxiliary Spillway Crest Elevation - Existing = 412.63 ft

100-Year WSE - Existing = 414.9 ft

500-Year WSE - Existing = 416.3 ft

PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft

Existing Flood Easement = 422.9 ft (420 ft. NGVD 29)

Top of Dam Elevation - Existing = 427.63 ft

Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft

100-Year WSE - Preferred Alternative (3) = 423.8 ft

500-Year WSE - Preferred Alternative (3) = 425.9 ft

PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft

Top of Dam Elevation - Preferred Alternative (3) = 435 ft

Selected Alternative Flood Easement Required

N

050100

Feet

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Central Sonoma Watershed Matanzas Creek Dam Rehabilitation

Preferred Alternative Land Rights Map

Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations

Project Number: 2006-048

Drawn by: JWW 10-24

Last Edit: 11/22/2024

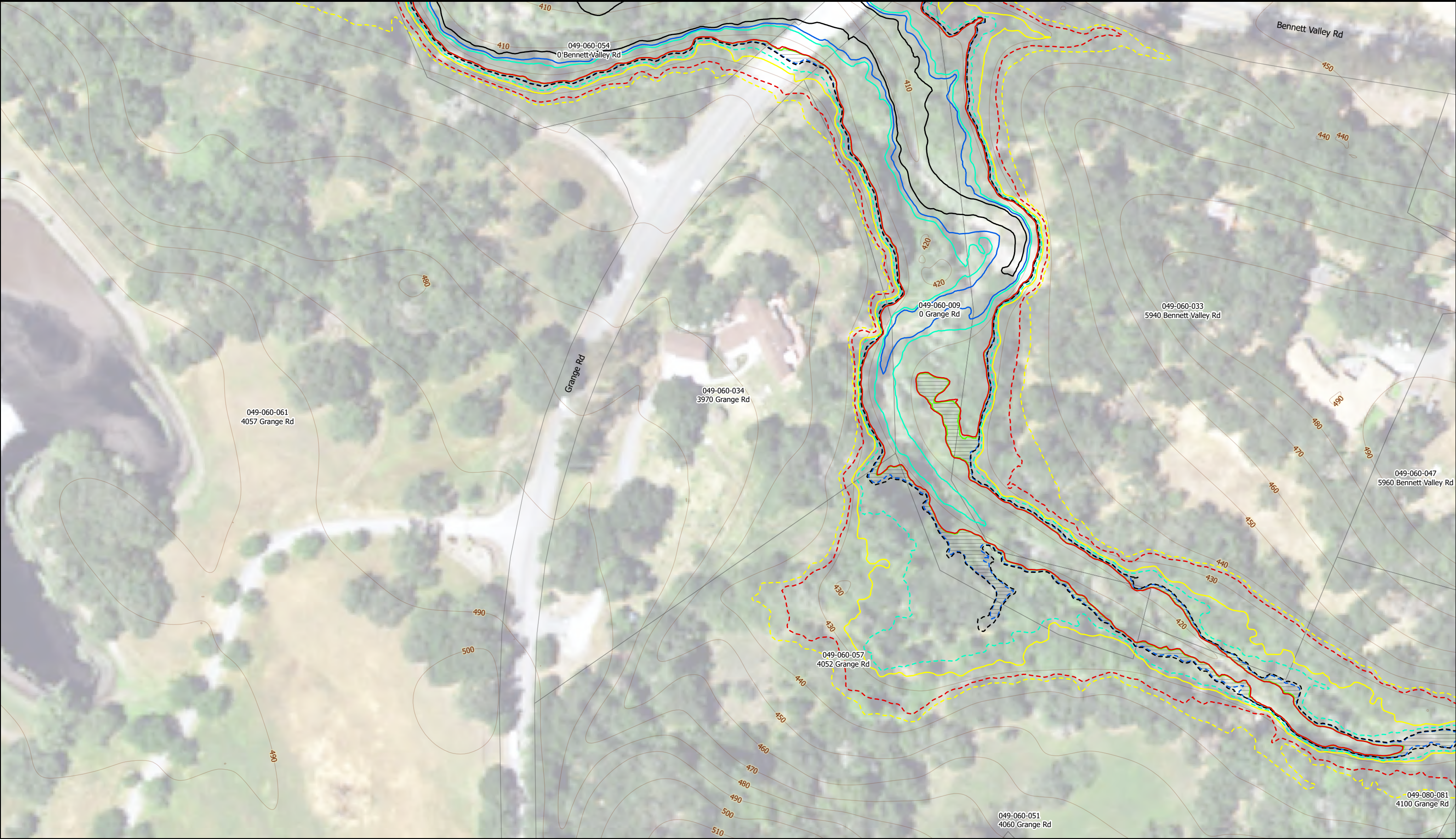
Sonoma County

Scale: 1" = 100'

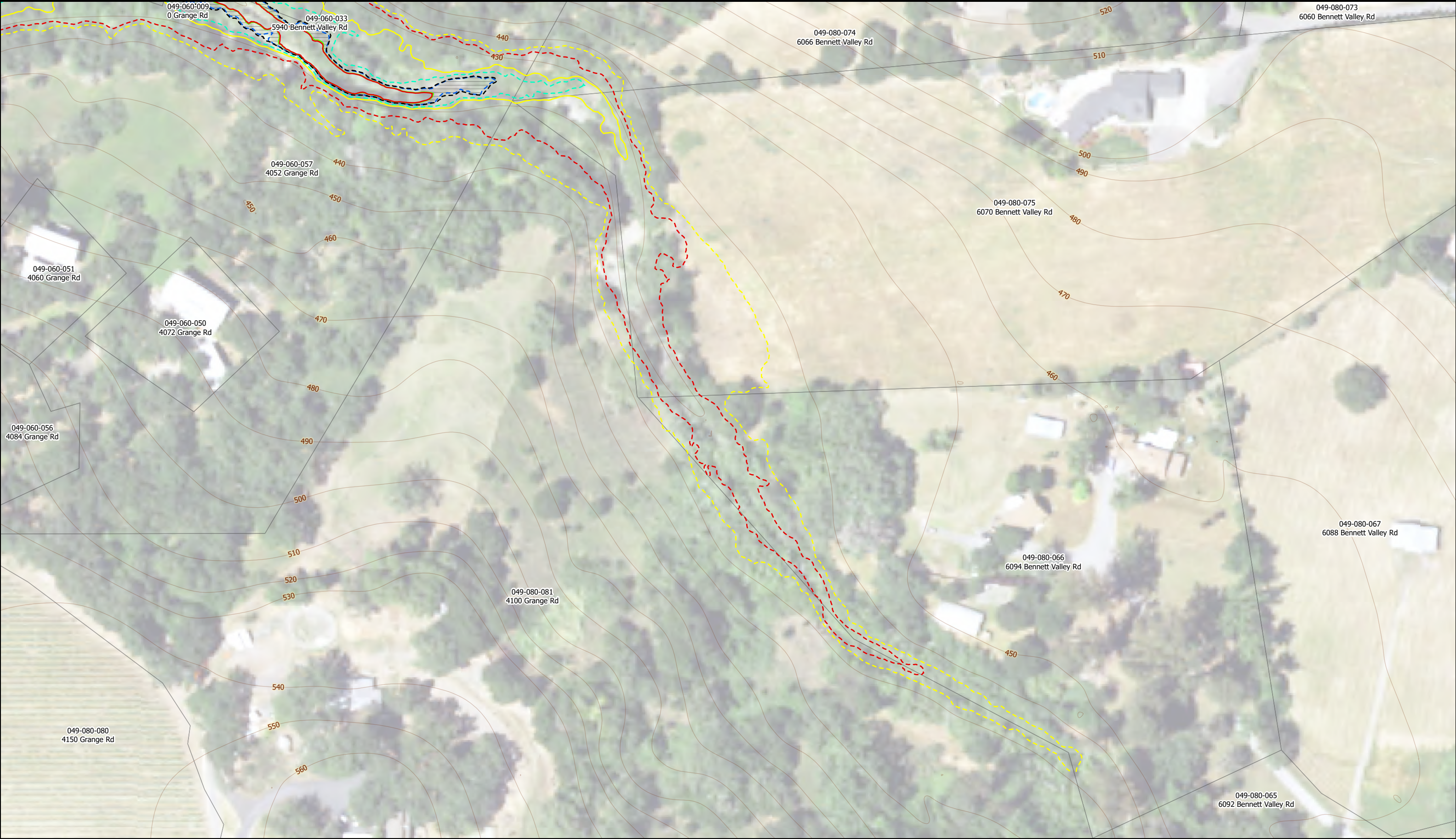
C19-8



10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemic.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-9
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10-Foot Contours Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) Top of Dam Elevation - Existing = 427.63 ft	Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft Top of Dam Elevation - Preferred Alternative (3) = 435 ft Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-10
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10-Foot Contours - Auxiliary Spillway Crest Elevation - Existing = 412.63 ft 100-Year WSE - Existing = 414.9 ft 500-Year WSE - Existing = 416.3 ft - PMF WSE (CA DSOD 72 Hour PMF) - Existing = 422.77 ft - Existing Flood Easement = 422.9 ft (420 ft. NGVD 29) - Top of Dam Elevation - Existing = 427.63 ft	- Auxiliary Spillway Crest Elevation - Preferred Alternative (3) = 424 ft 100-Year WSE - Preferred Alternative (3) = 423.8 ft 500-Year WSE - Preferred Alternative (3) = 425.9 ft - PMF WSE (CA DSOD 72 Hour PMF) - Preferred Alternative (3) = 432.58 ft - Top of Dam Elevation - Preferred Alternative (3) = 435 ft - Selected Alternative Flood Easement Required	N 050100 Feet	Jones & DeMille Engineering - Shaping the Quality of Life - 800.748.5275 www.jonesanddemille.com Central Sonoma Watershed Matanzas Creek Dam Rehabilitation Preferred Alternative Land Rights Map Map Name: H:\JD\Proj\2006-048\Design\GIS\Projects\2006-048_Water\2006-048_Water.aprx - Exh Flood Elevations Project Number: 2006-048 Drawn by: JWW 10-24 Last Edit: 11/22/2024 Sonoma County Scale: 1" = 100' C19-11
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