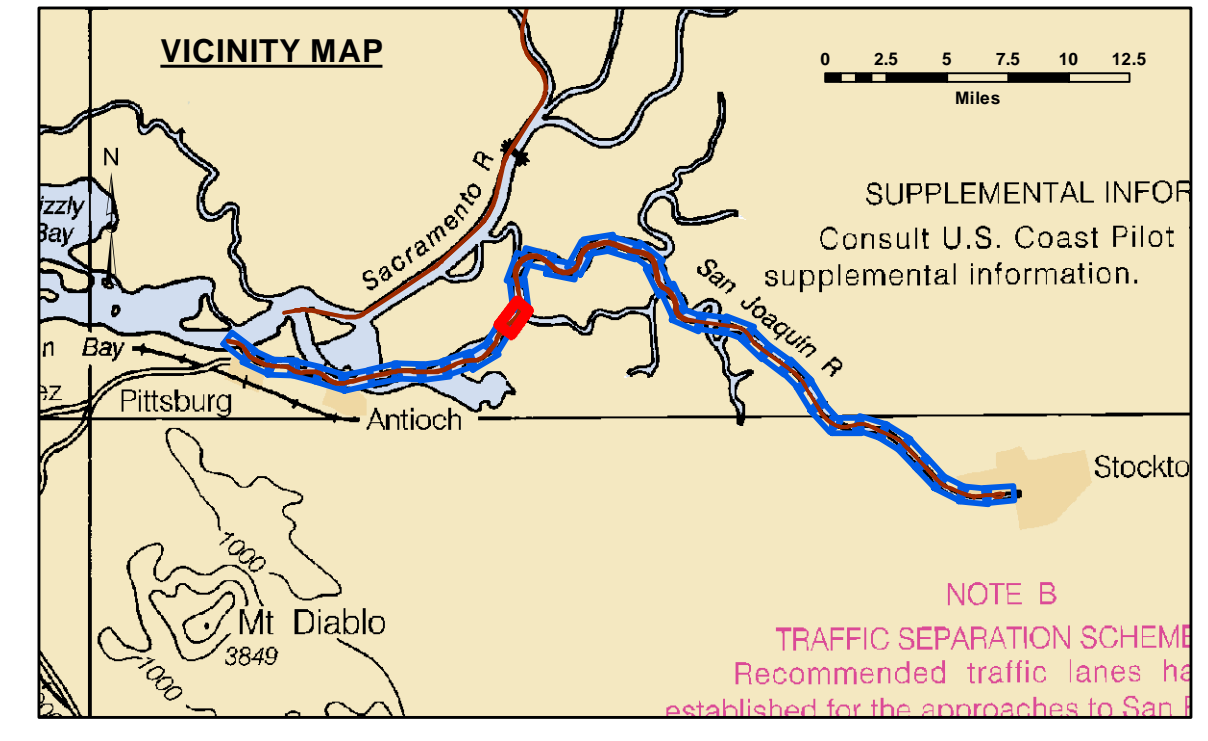


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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed by:	PDT
Drawn by:	PDT



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	▨ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
	● Shoaling Area		
	● Shoalest Sounding**		
	⬇ Beacon, General		
	♦ Red Navigation Buoy		
	♦ Green Navigation Buoy		

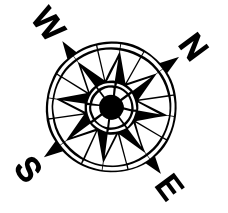


NOTES:
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 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

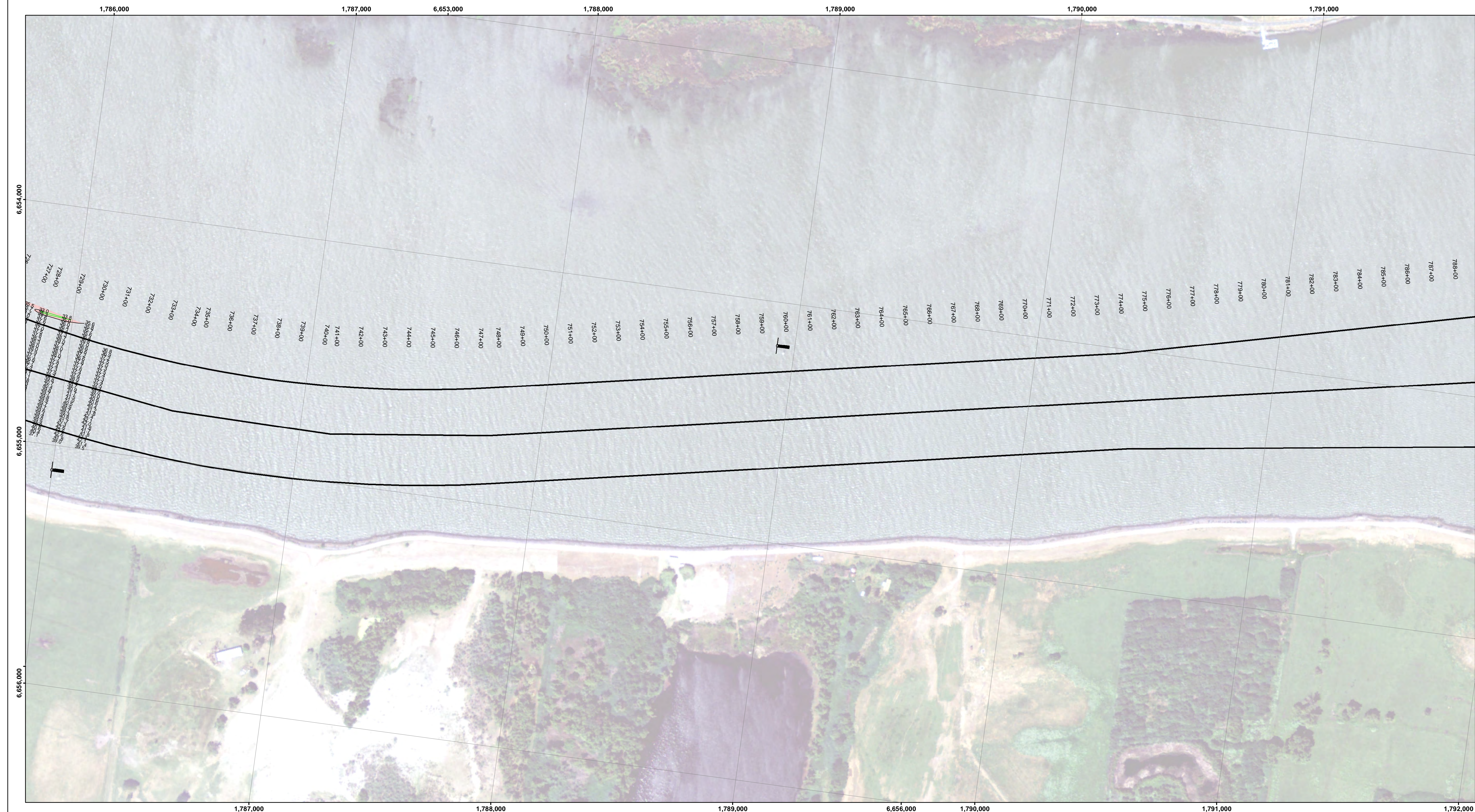


CALIFORNIA

SAN JOAQUIN COUNTY

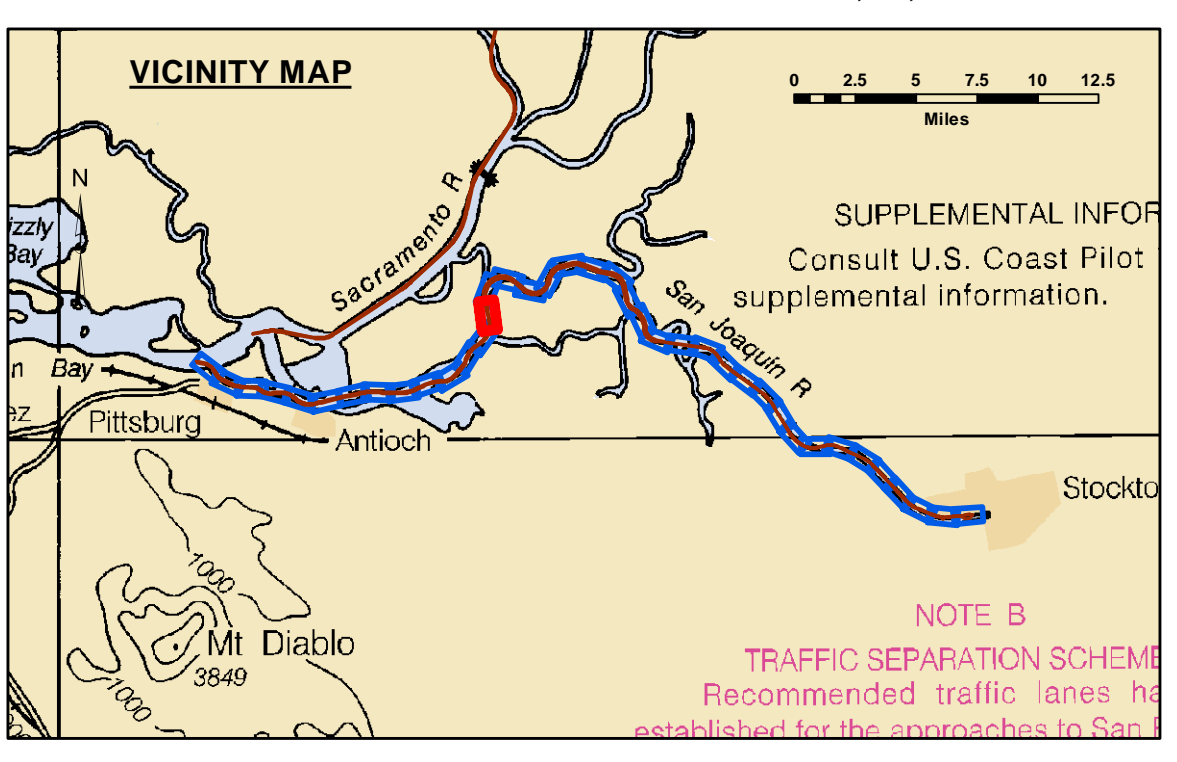
**STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 08-12 JULY 2021**

Sheet Reference Number
13 of 39



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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT



Feet
0 400 800 1,200

LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy

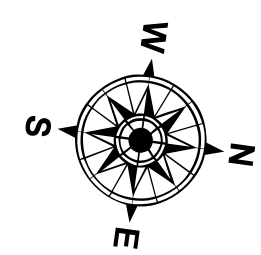
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

NOTES:
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LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

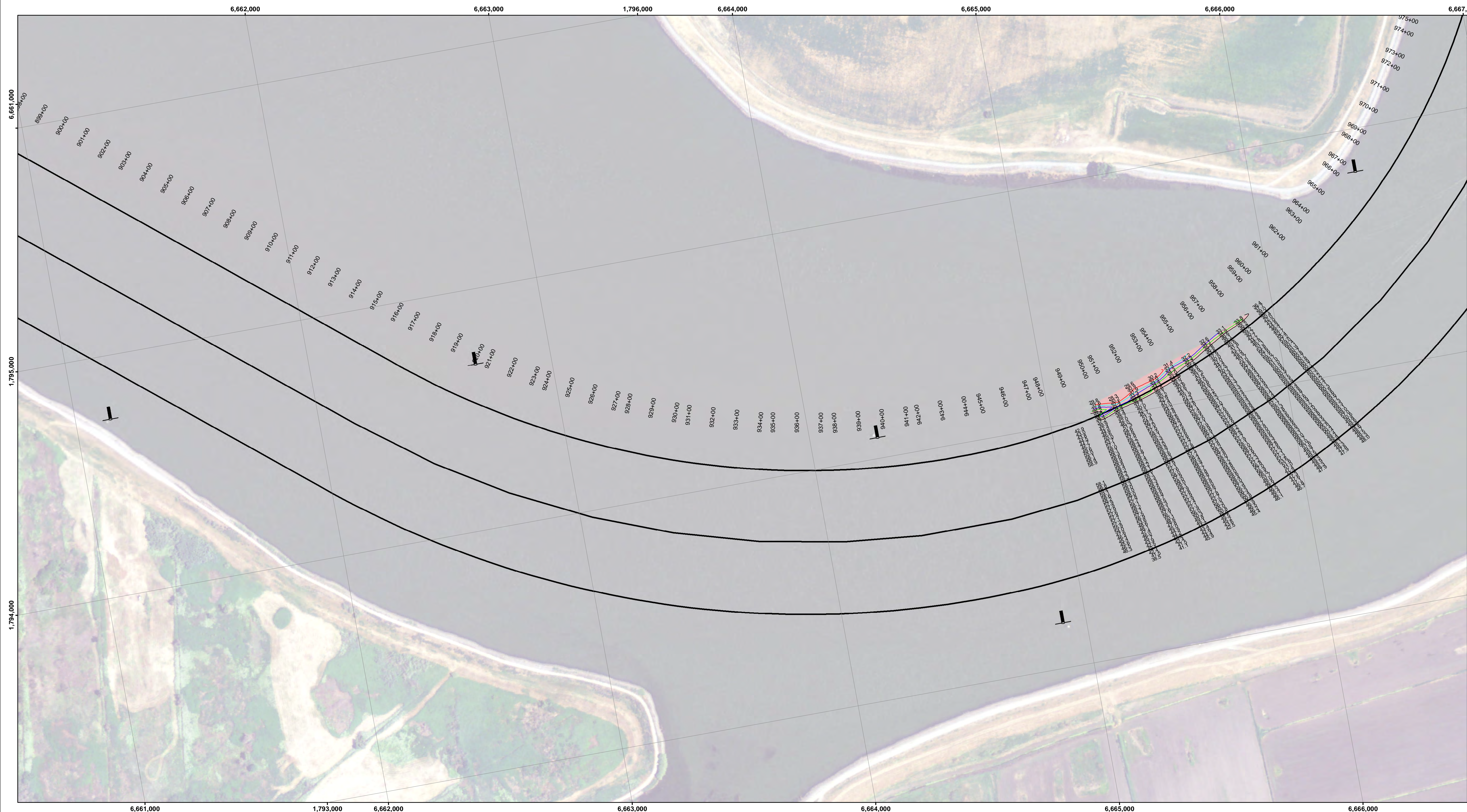
OTHER SAN JOAQUIN RIVER GAUGES:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
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LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W



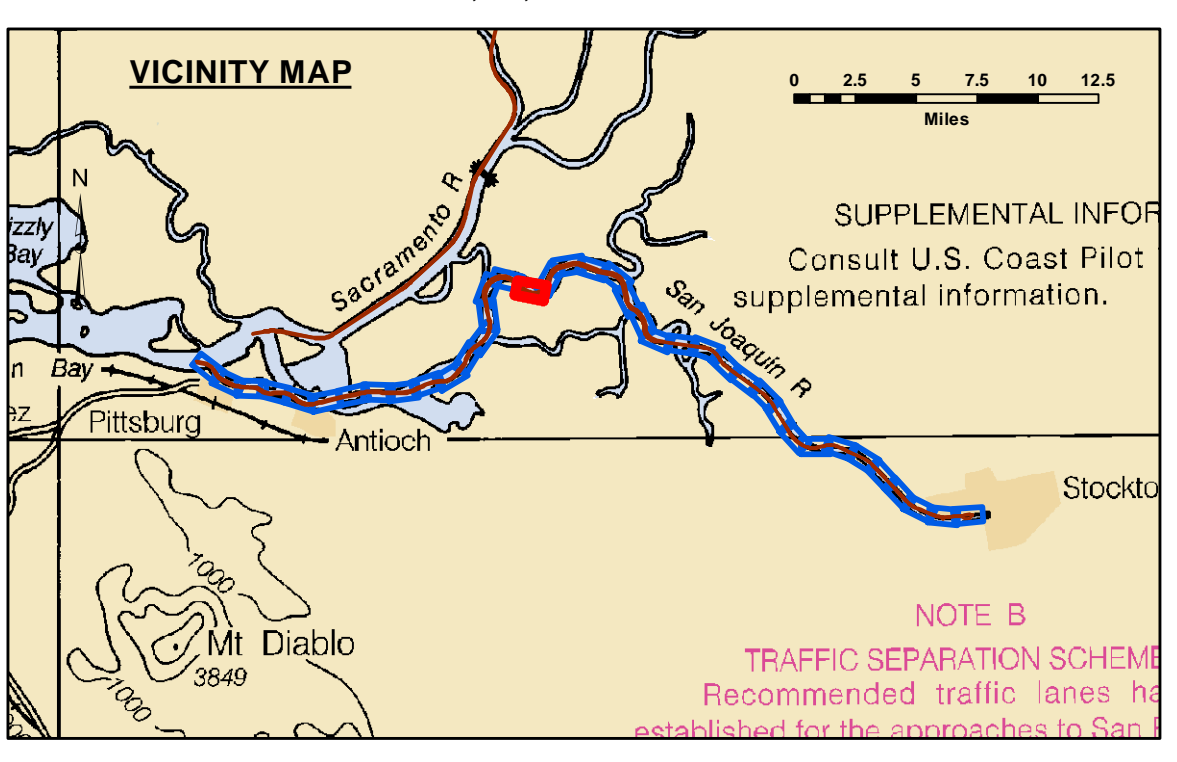
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
14 of 39



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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT



Feet
0 400 800 1,200

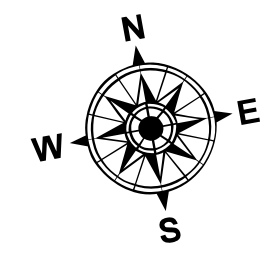
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⬇ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

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NOAA STATION: 941 4867
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TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

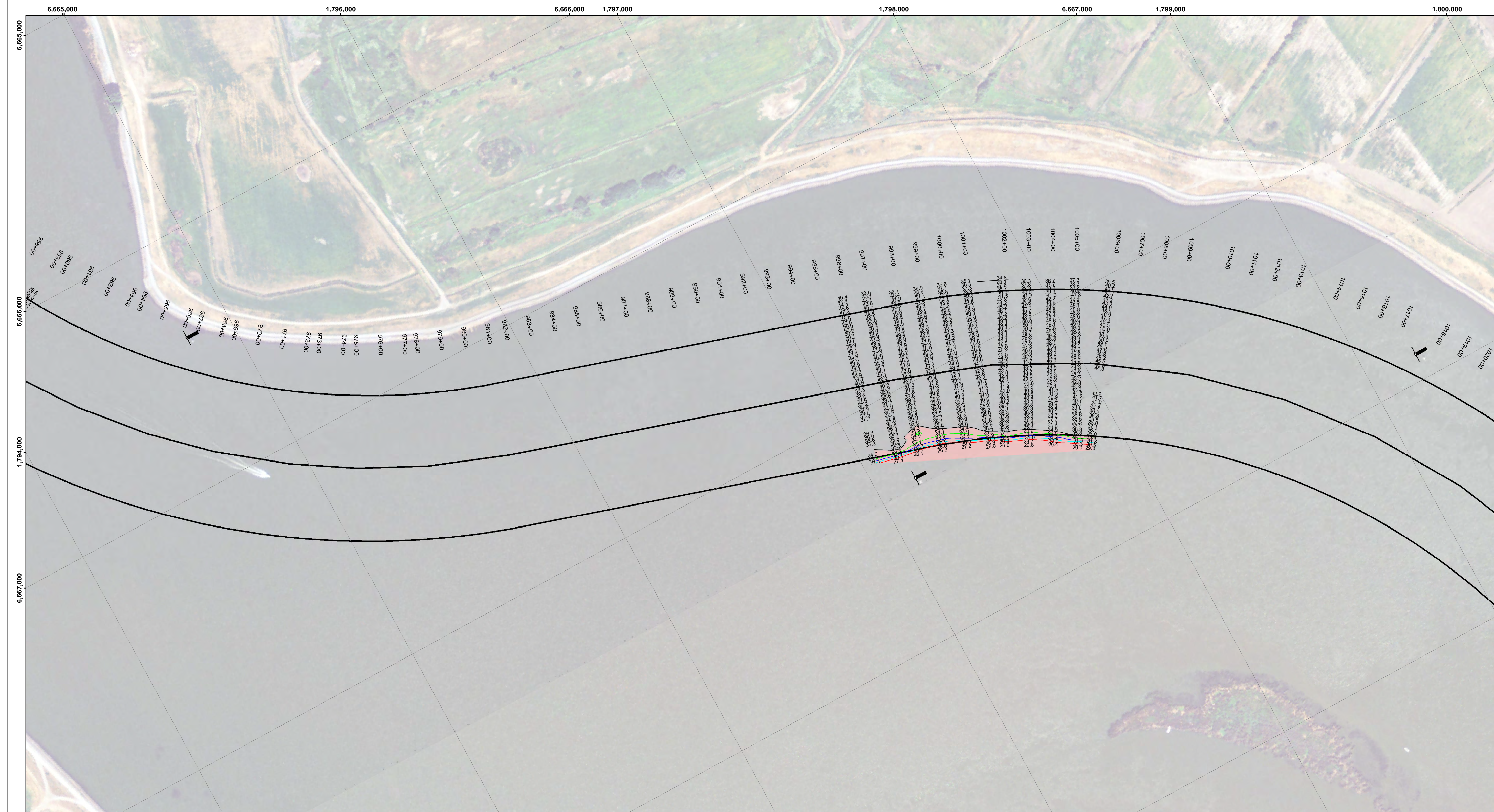
OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
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CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

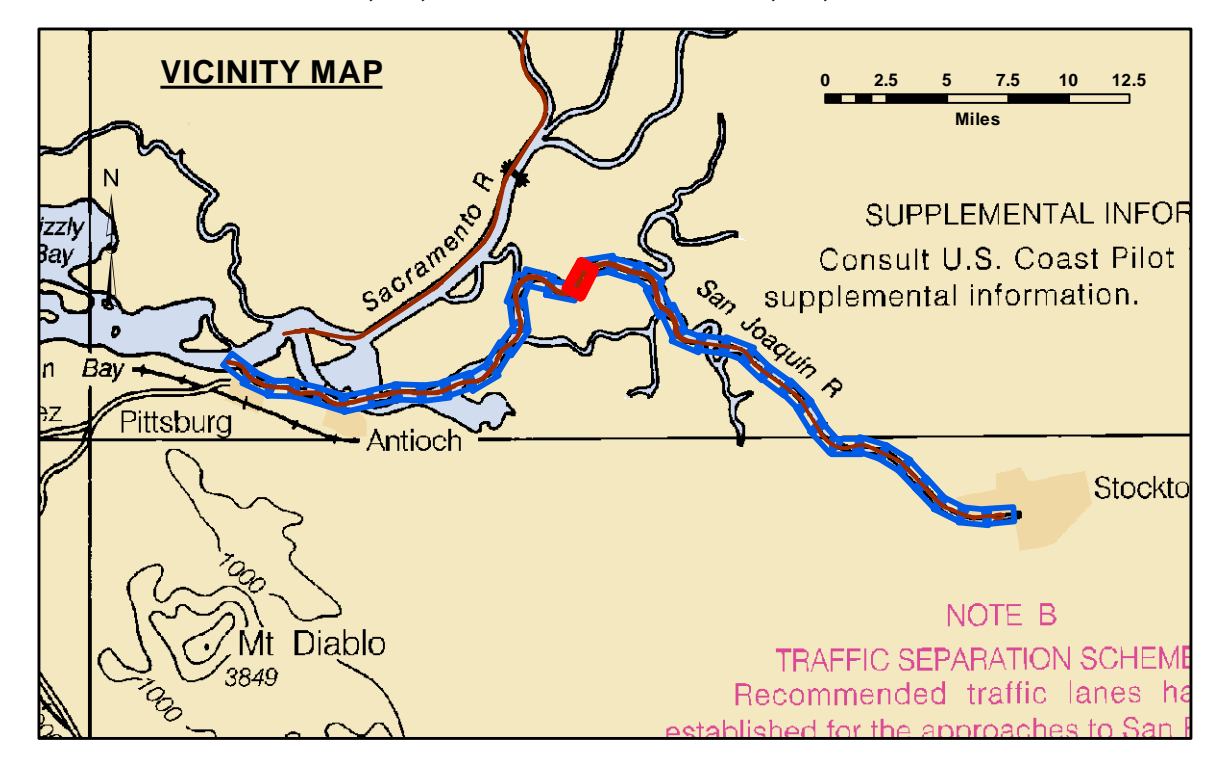
SAN JOAQUIN COUNTY
Sheet Reference Number
17 of 39



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Chart Date:	Jul 22, 2021
Designed by:	
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	
Prepared Under the Direction of:	KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER
Supervised:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✶ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

NOTES:
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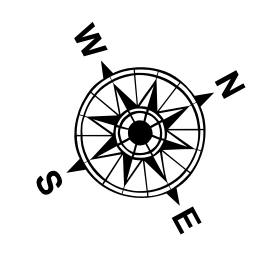
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5084-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

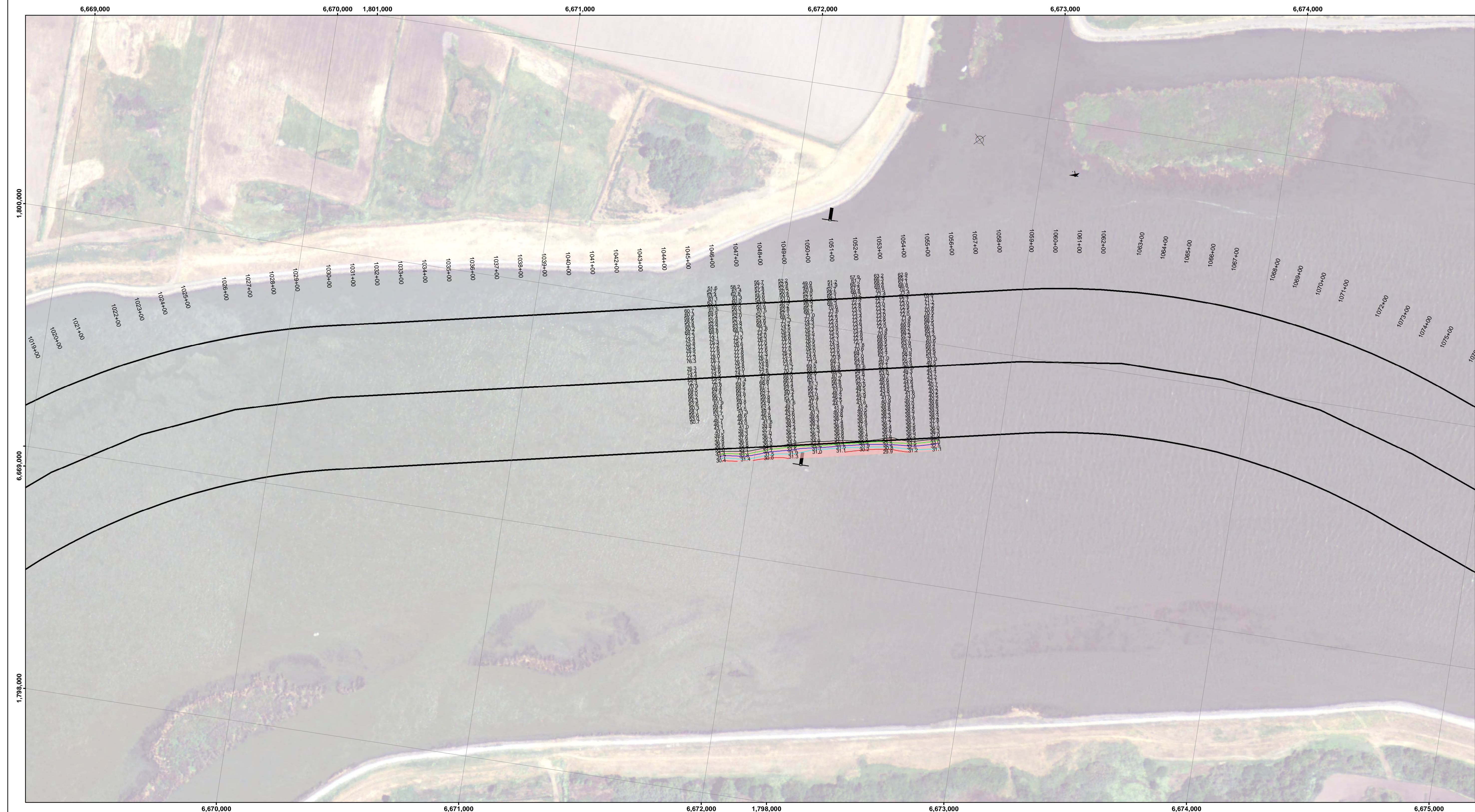
LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
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PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



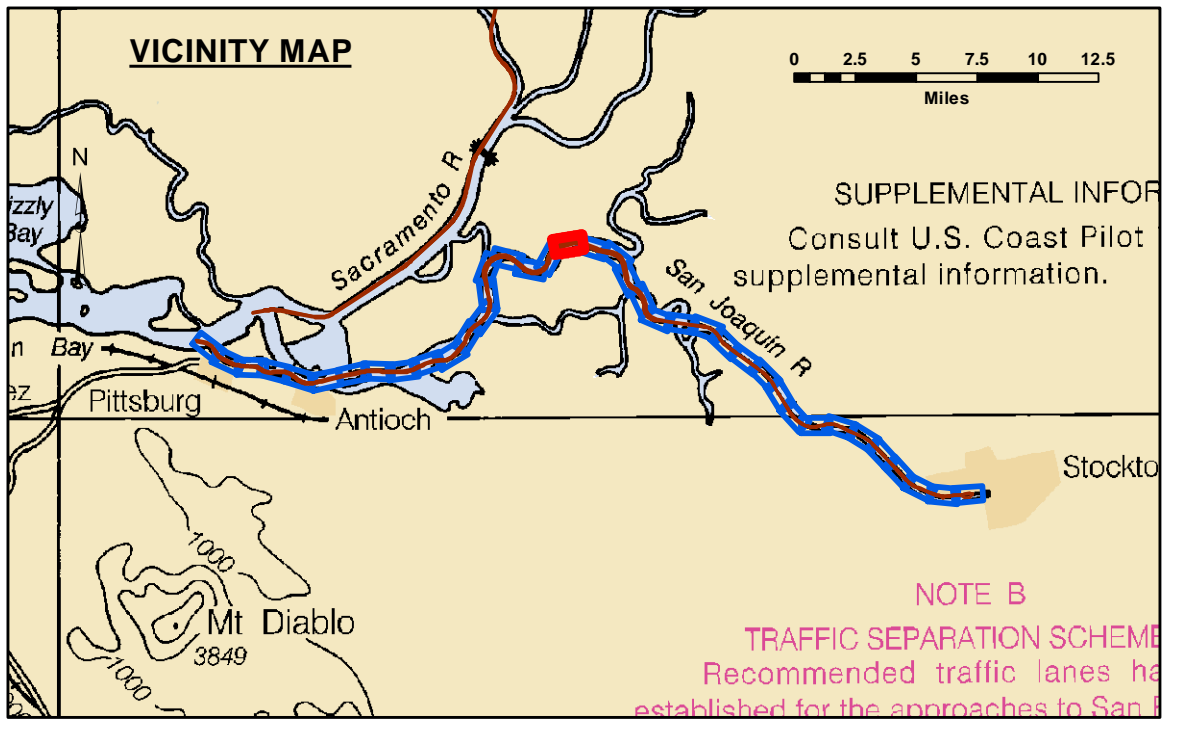
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
18 of 39



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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT



LEGEND

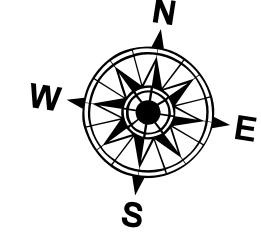
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

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BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

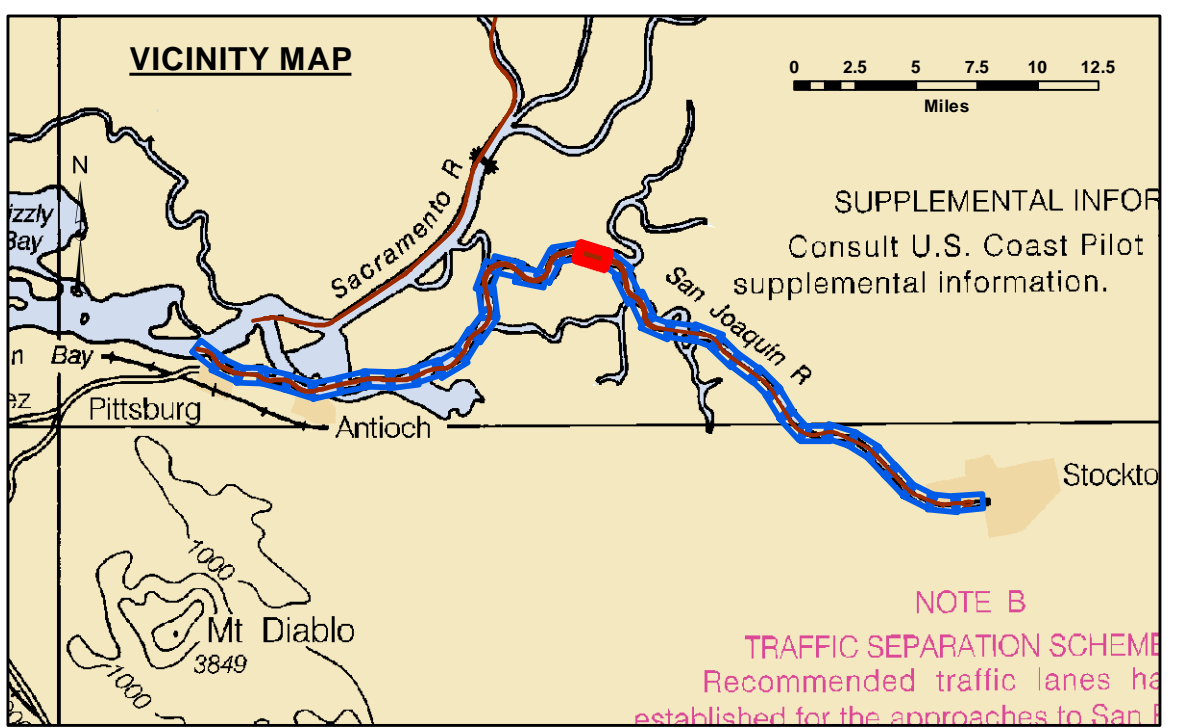
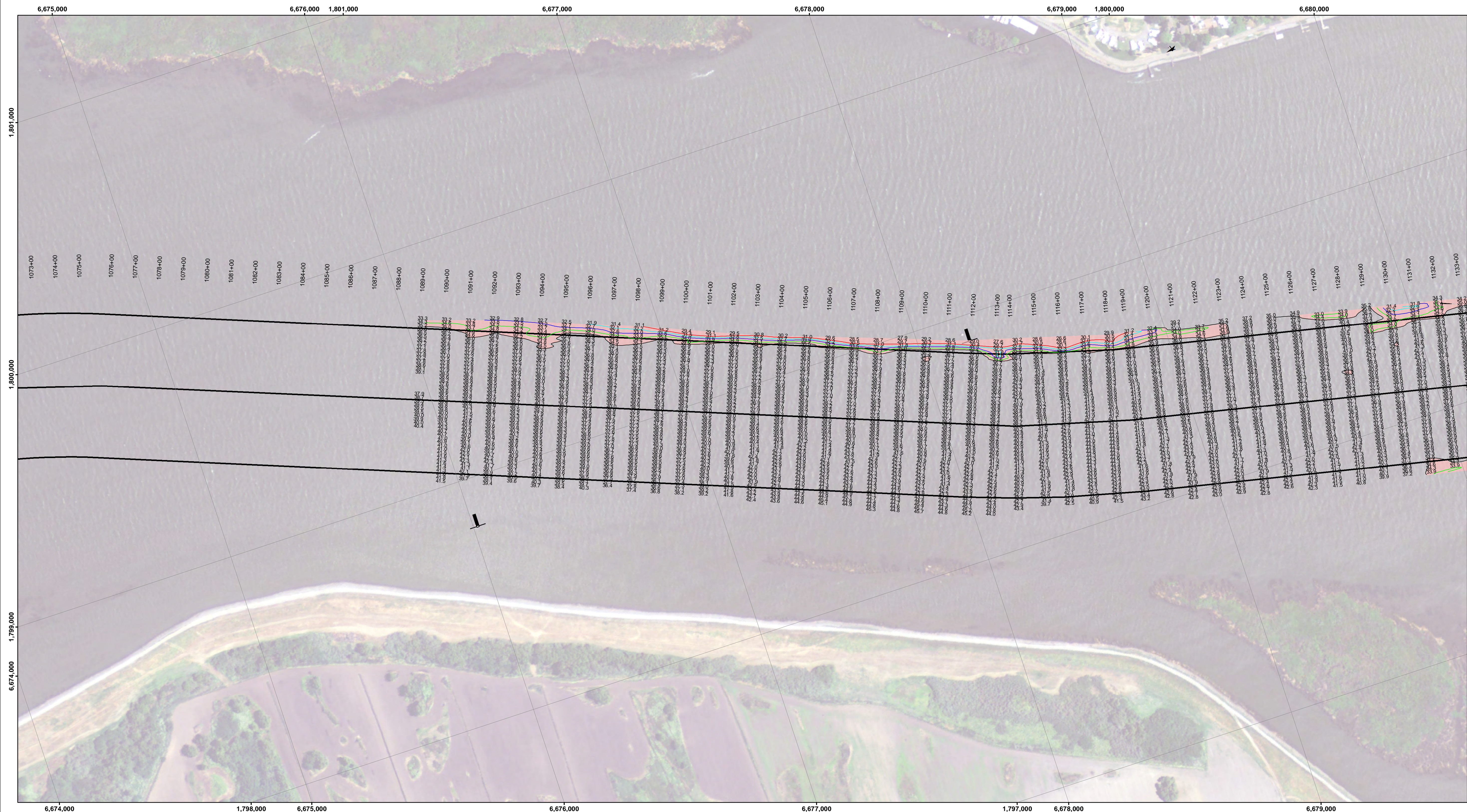


CALIFORNIA

**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021**

SAN JOAQUIN COUNTY

**Sheet
Reference
Number
19 of 39**



LEGEND

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▭ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
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			— -31



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 LAT: 38 01 6.9393 N
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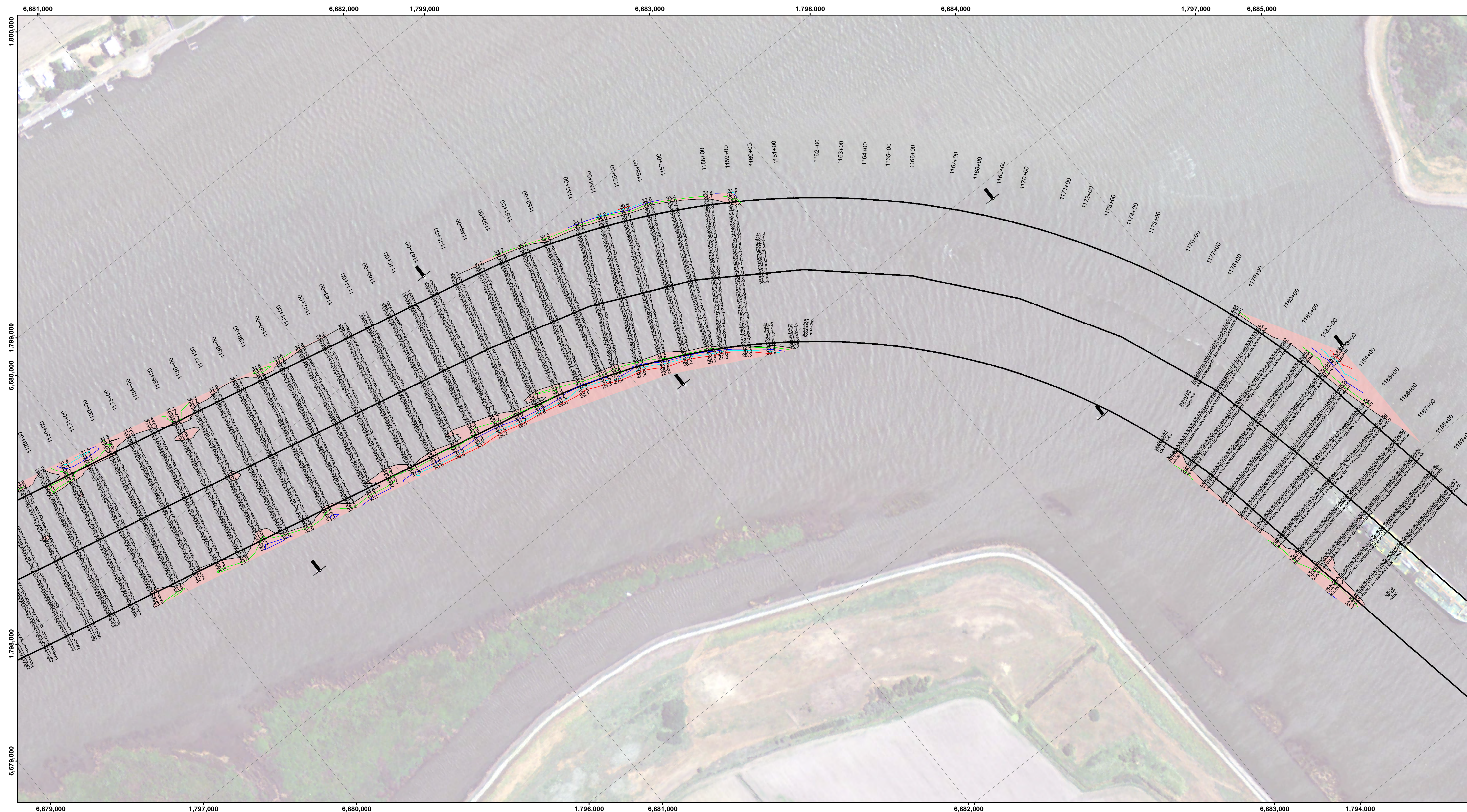
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PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
 LT COLONEL, C.E., DISTRICT ENGINEER

Surveyed By:	Chart Date:
Plotted By:	Jul 22, 2021
Checked By:	Designed by:
Approved:	Drawn by:
Chief, Hydro Survey Section	PDT
Chief, Construction Branch	PDT

CALIFORNIA
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 08-12 JULY 2021

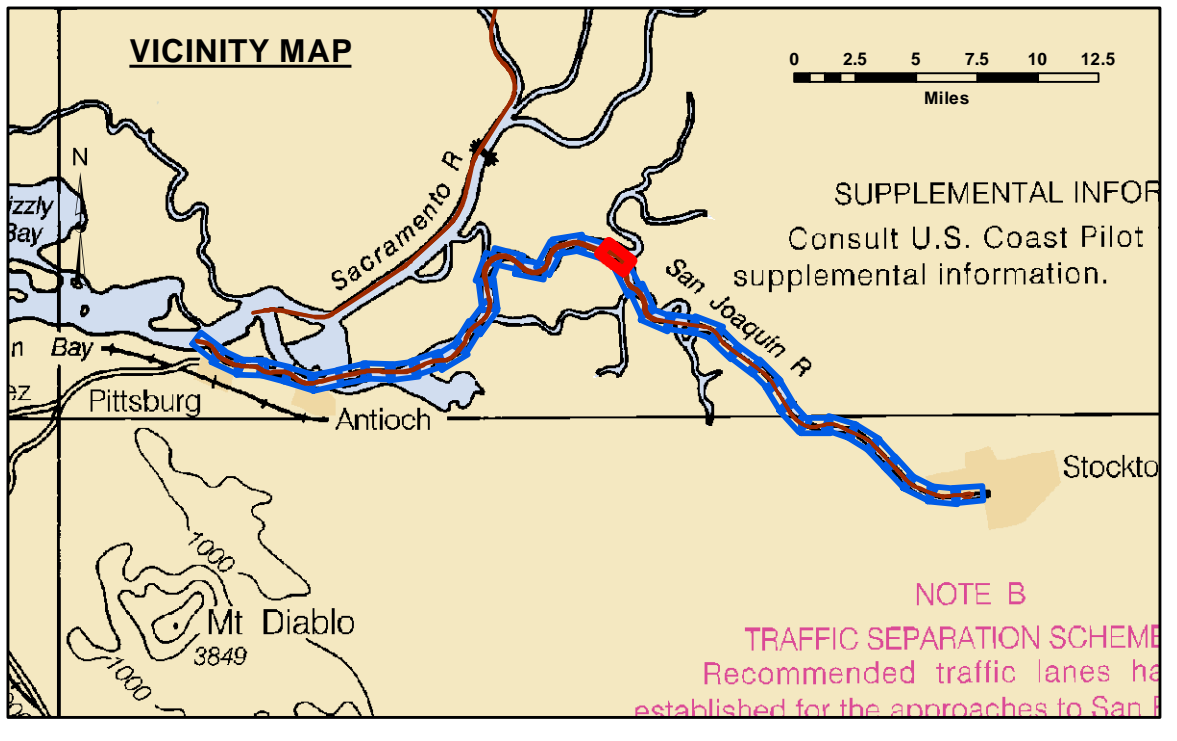
Sheet Reference Number
20 of 39



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Chart Date:	Jul 22, 2021
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Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021**



LEGEND

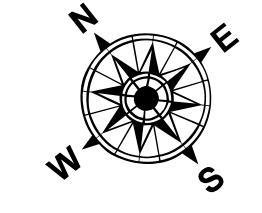
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
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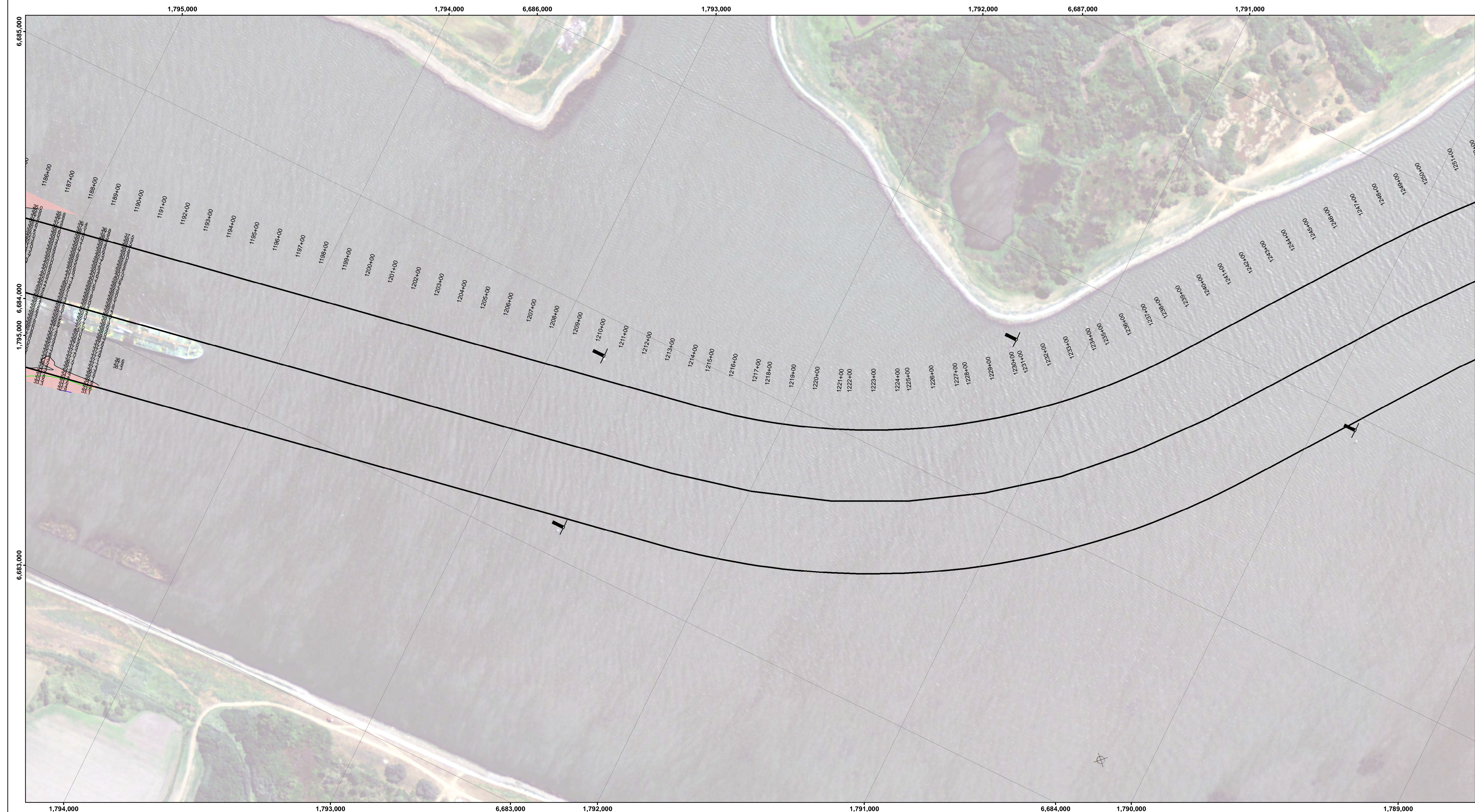
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CONTROLS:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

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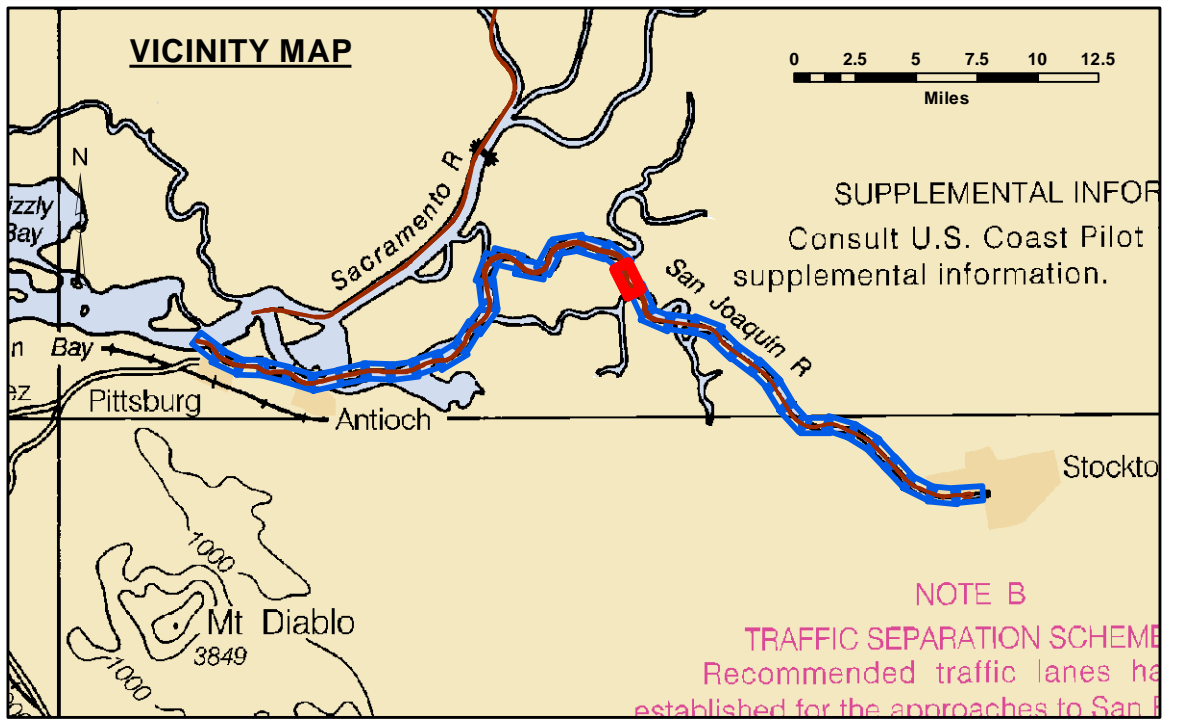


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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed by:	PDT
Checked By:	PDT
Drawn by:	PDT

**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021**

**Sheet
Reference
Number
22 of 39**



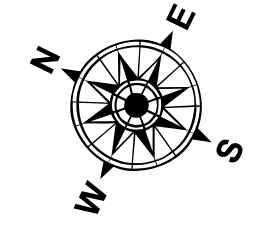
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✶ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		
	■ Shoaling Area		

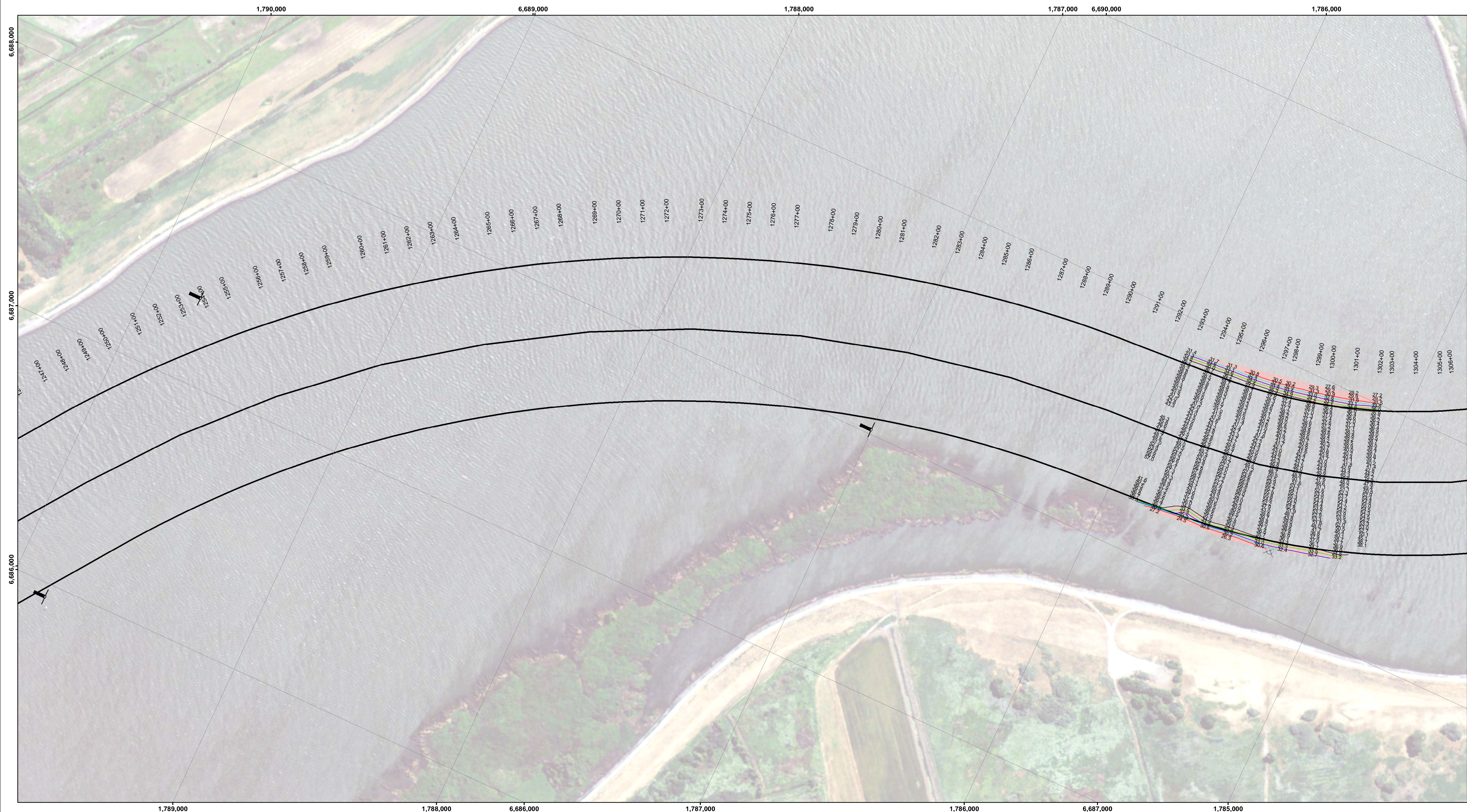
NOTES:
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

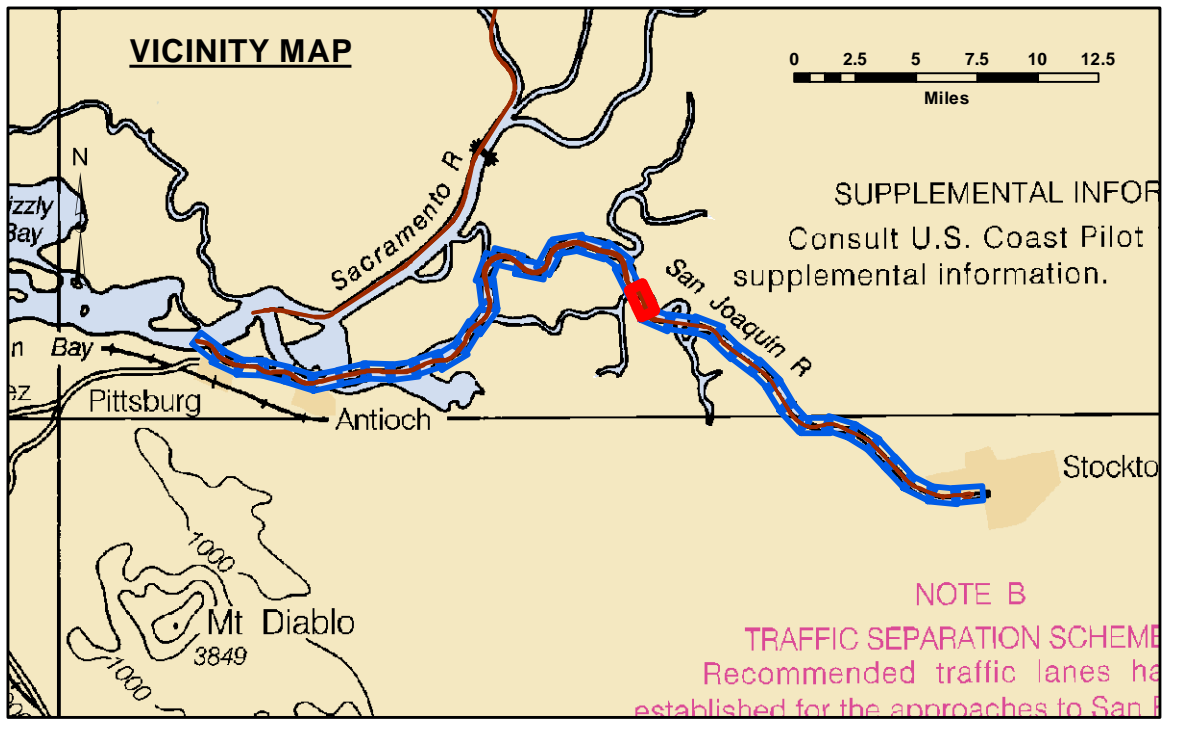
CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W





DISCLAIMER: The data represents the results of data collection for a specific US Army Corps of Engineers project. The user is responsible for the results and accuracy of the data. The user is responsible for the results and accuracy of the data. The user is responsible for the results and accuracy of the data.

Prepared Under the Direction of KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jul 22, 2021
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked by: PDT	
Approved: Chief, Construction Branch	



LEGEND

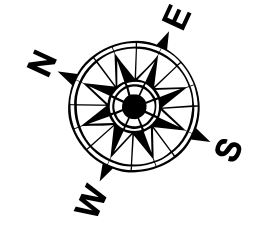
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

NOTES:
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

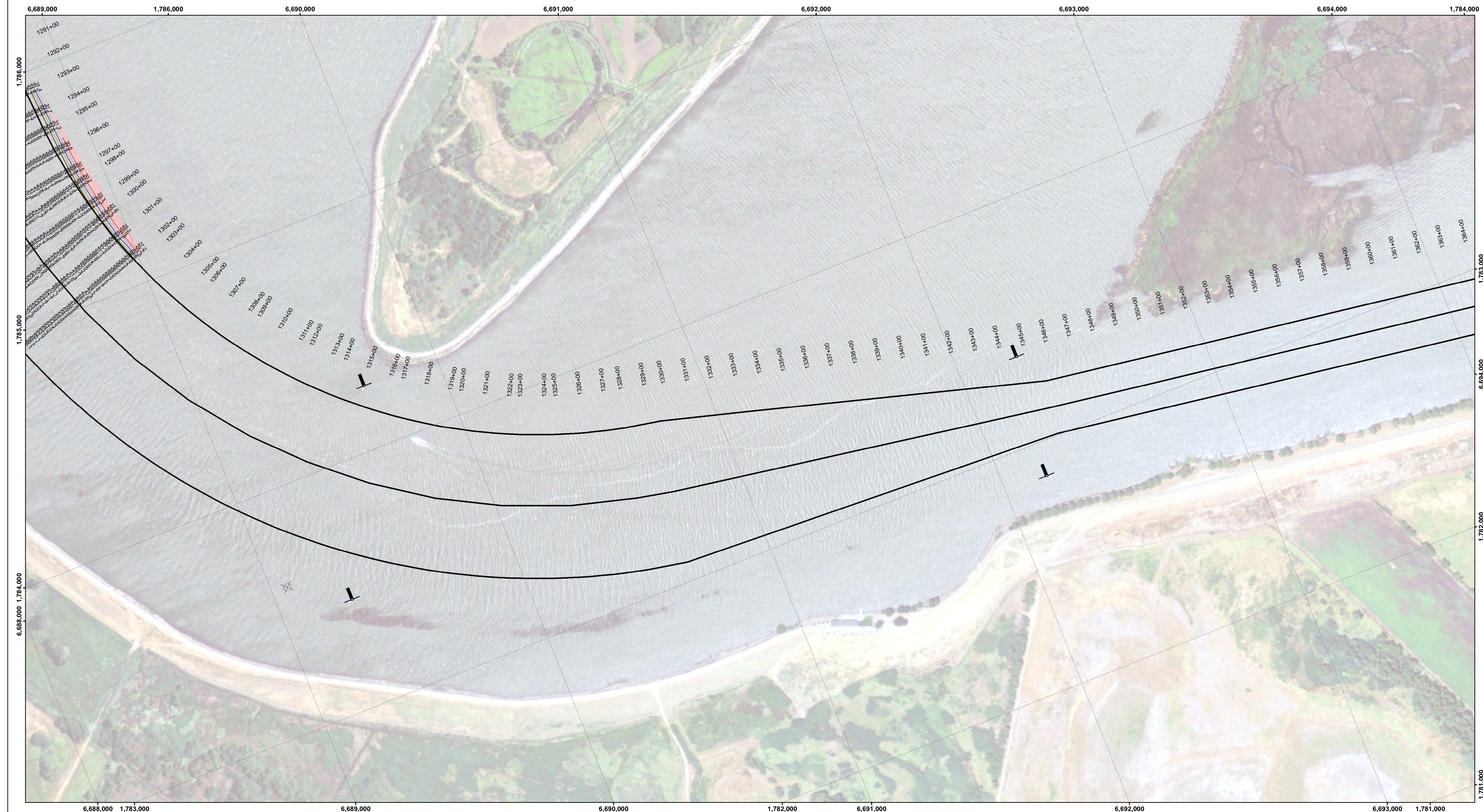


CALIFORNIA

**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021**

SAN JOAQUIN COUNTY

**Sheet Reference
Number
23 of 39**

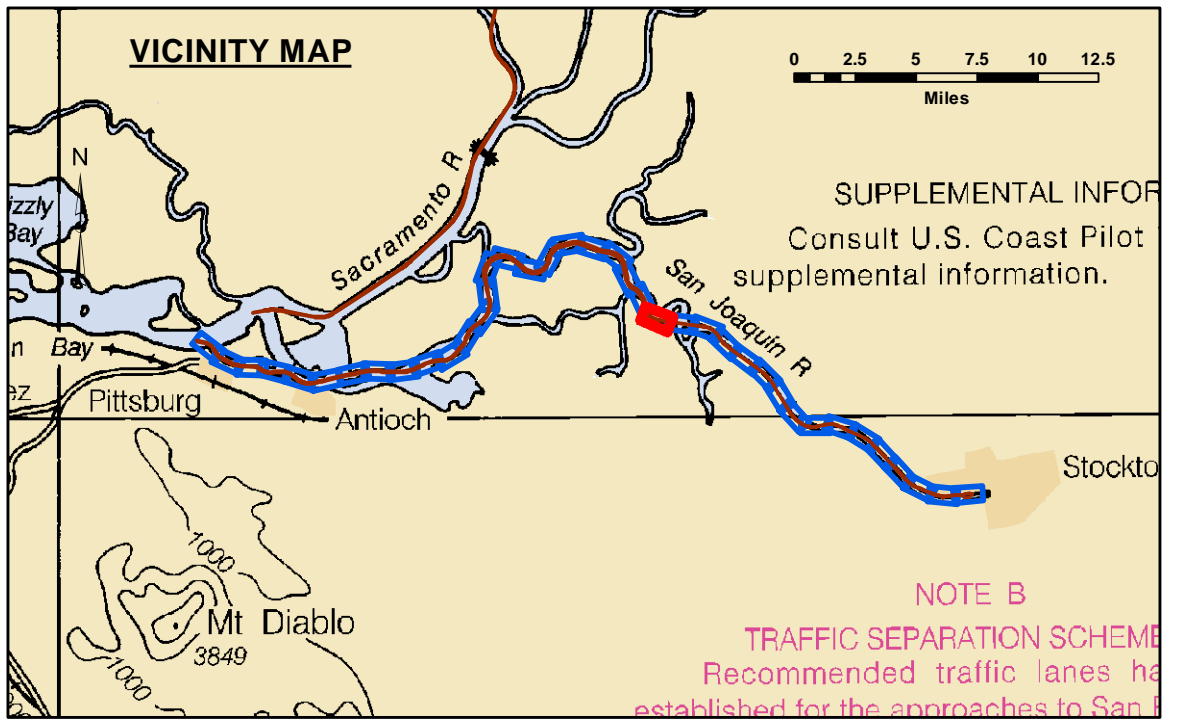


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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
 08-12 JULY 2021

Sheet Reference Number
24 of 39



LEGEND

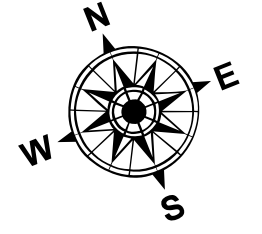
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▭ Anchorage Area	⚓ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	♦ Green Navigation Buoy	— -32
			— -31

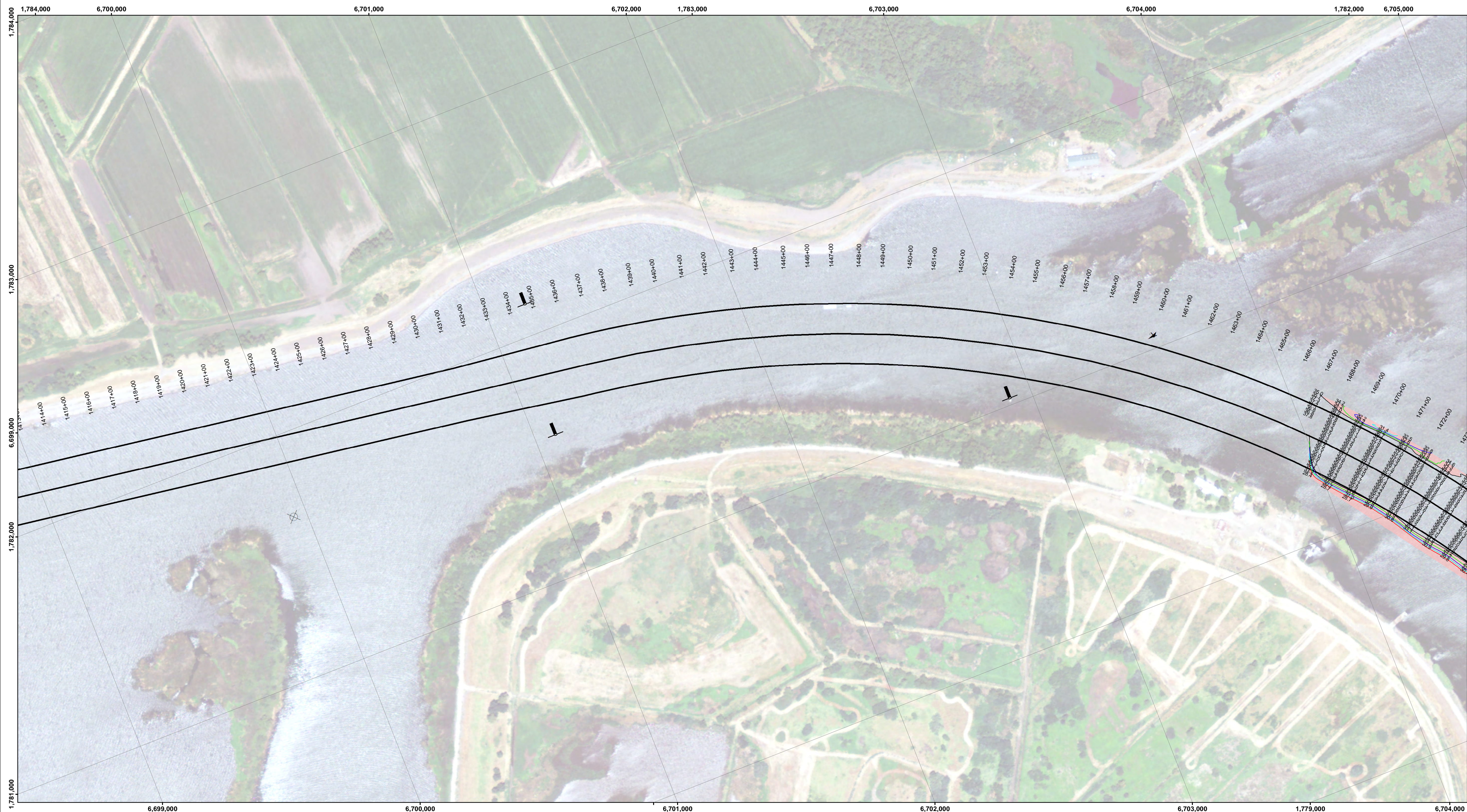
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 Nail @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

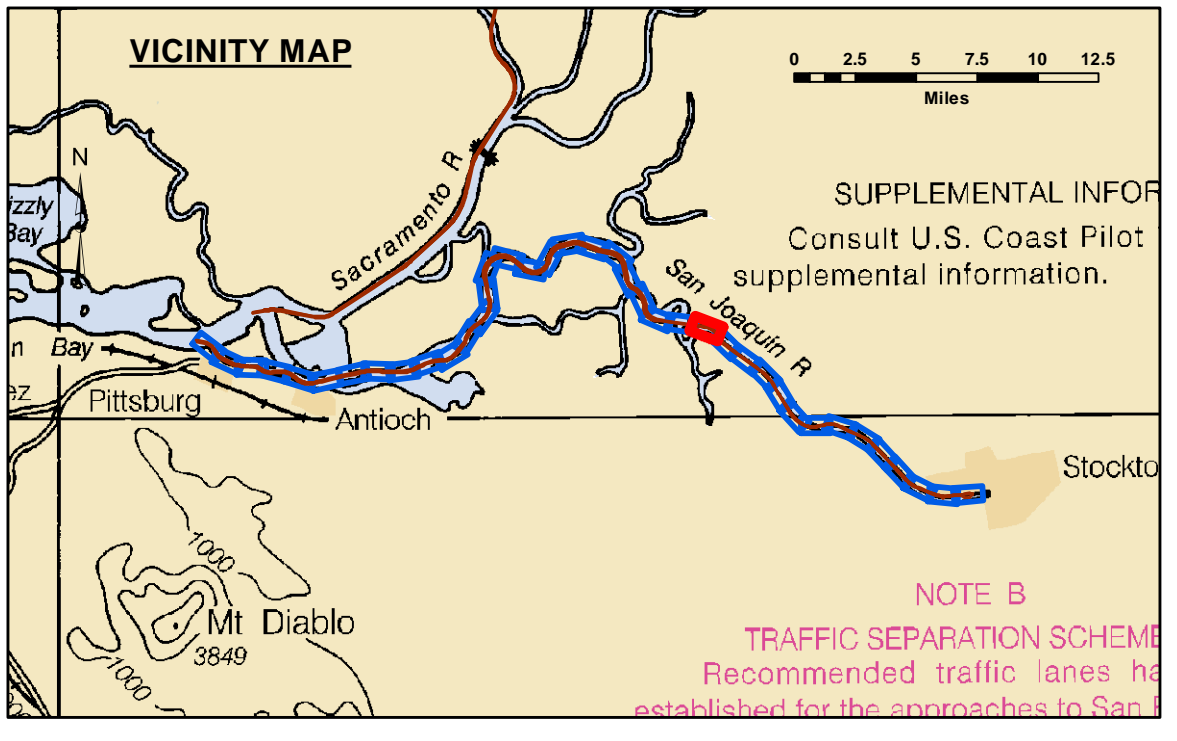
OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW





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Prepared Under the Direction of KEVIN P. ARNETT LT Colonel, C.E. District Engineer	Chart Date: Jul 22, 2021
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked by: PDT	



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	▨ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
	● Shoaling Area		
	● Shoalest Sounding**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

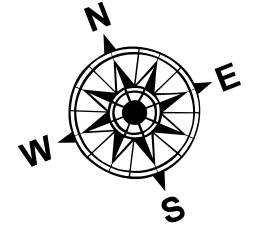


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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

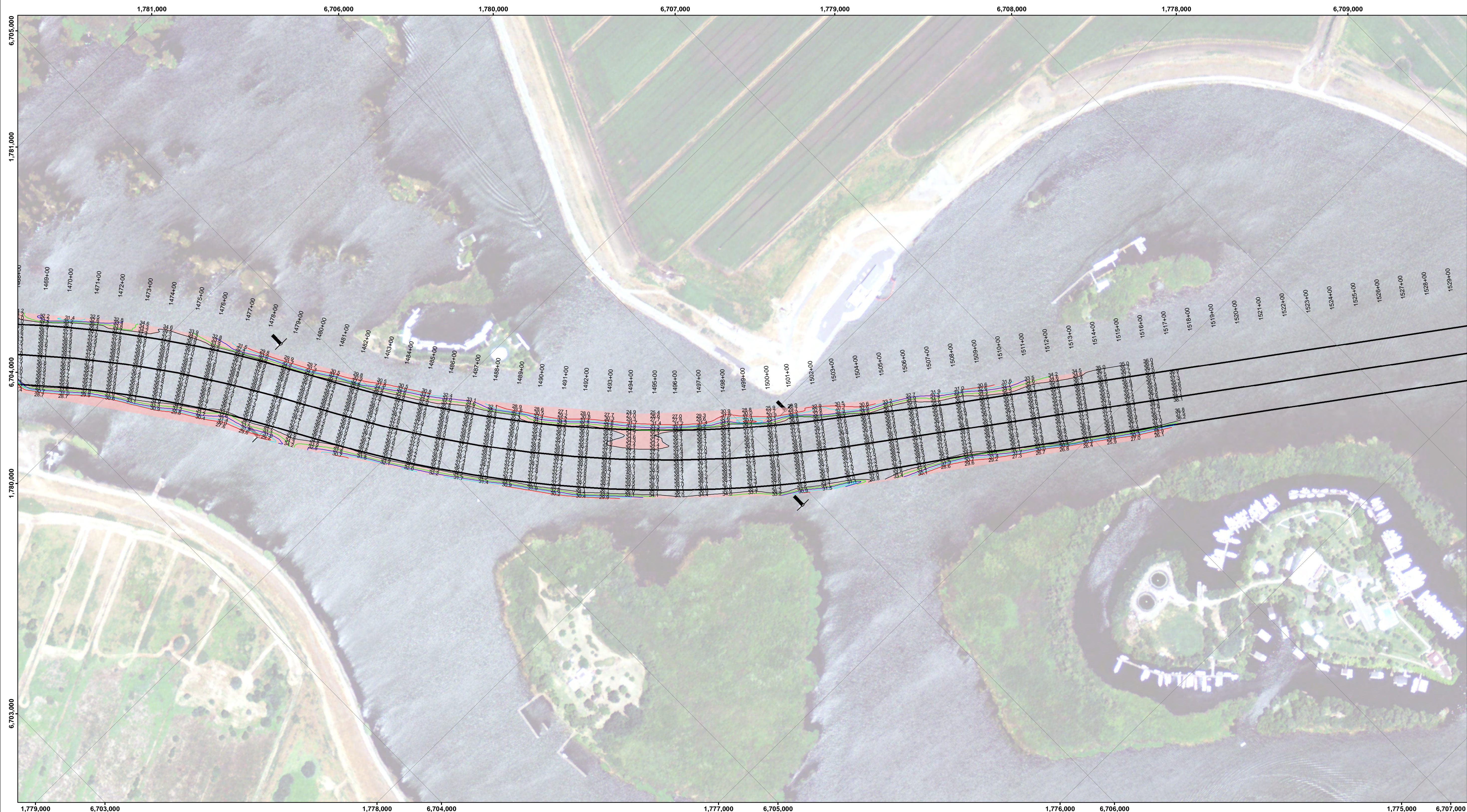
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W



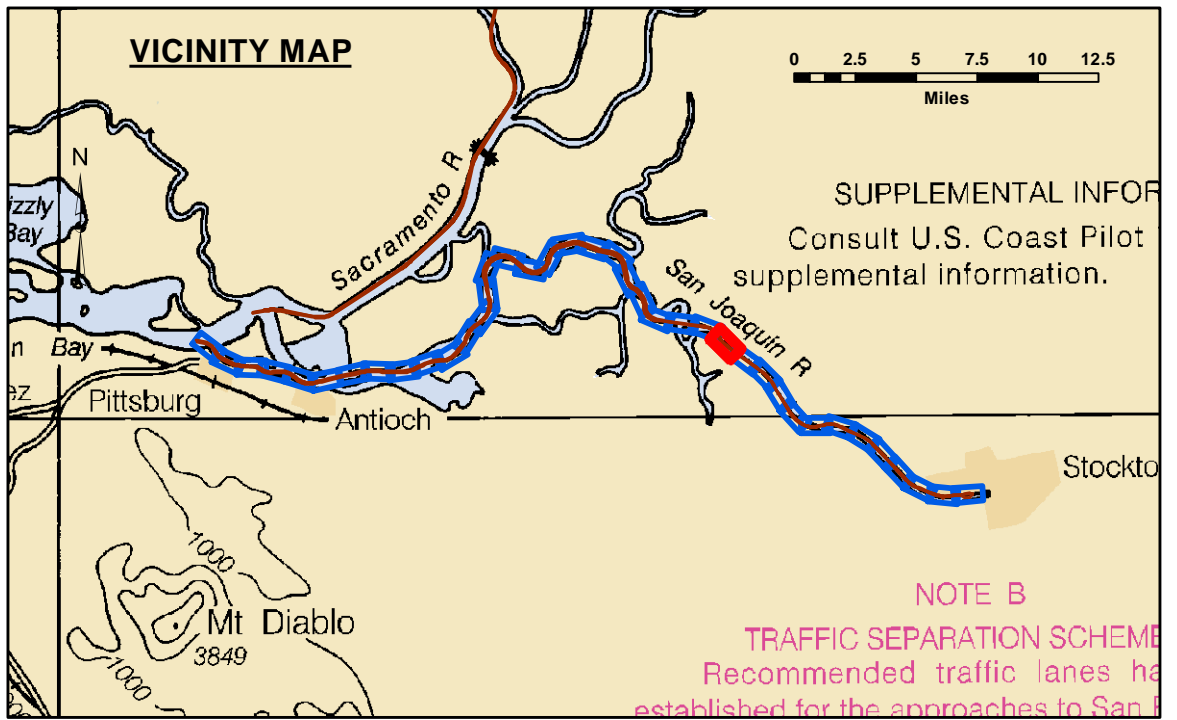
CALIFORNIA
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 08-12 JULY 2021

Sheet Reference Number
26 of 39



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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⬇ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

NOTES:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

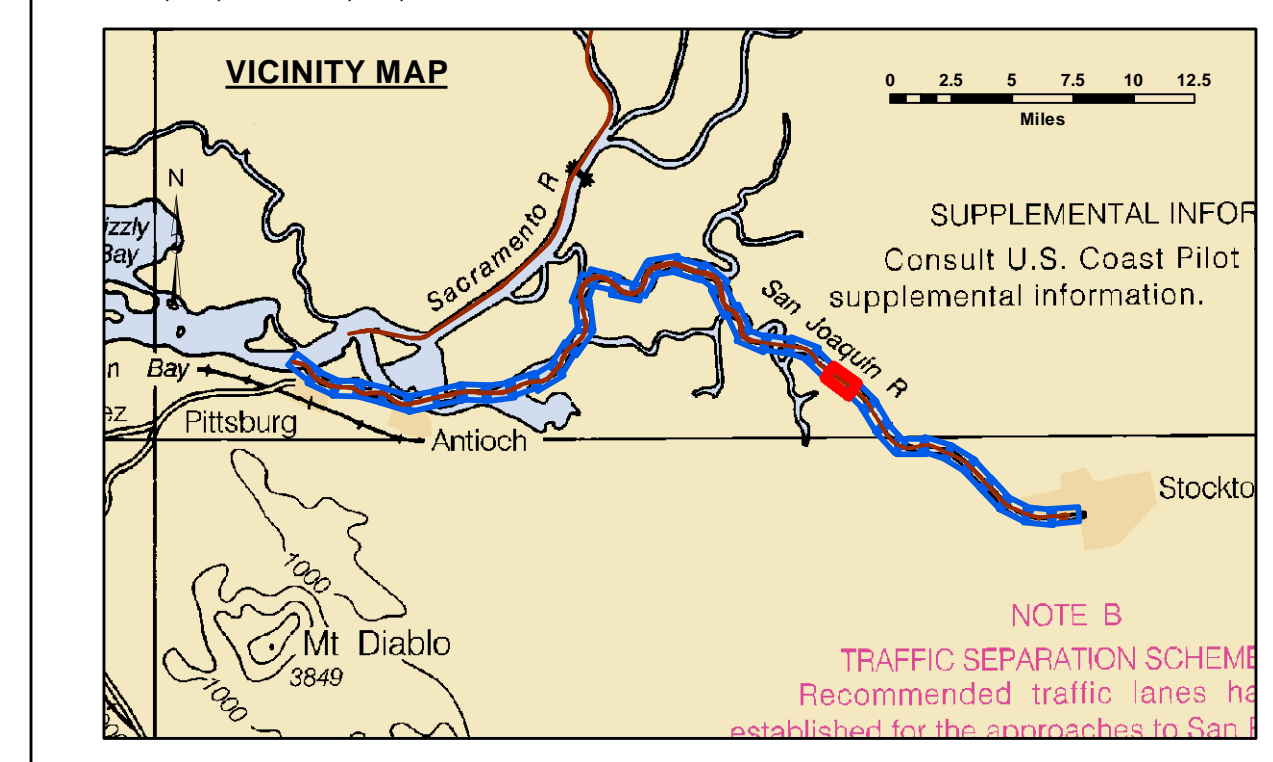
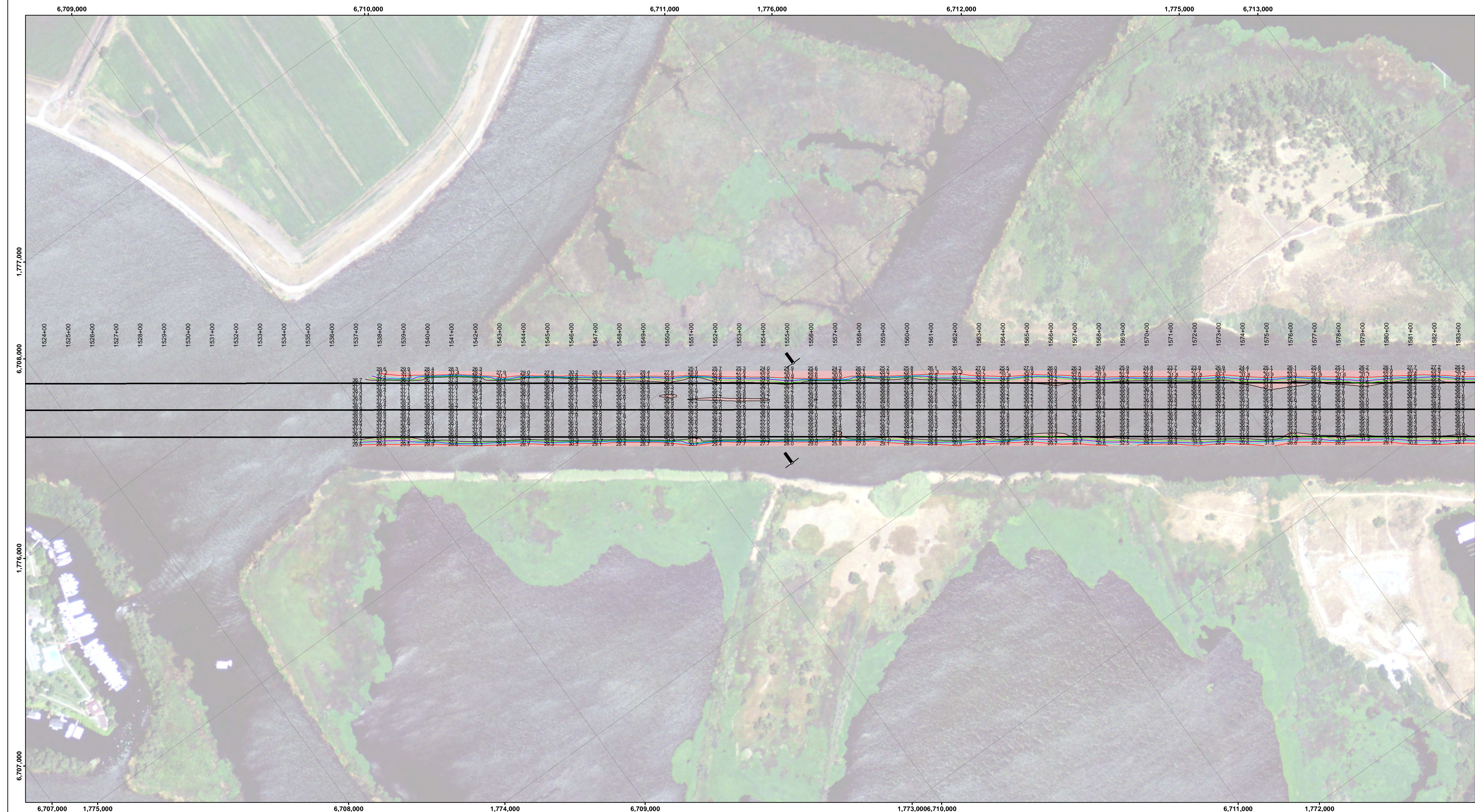
LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
27 of 39



Feet
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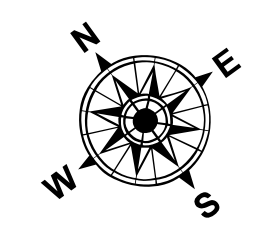
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
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PROJECT DEPTH: -35'
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LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
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LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

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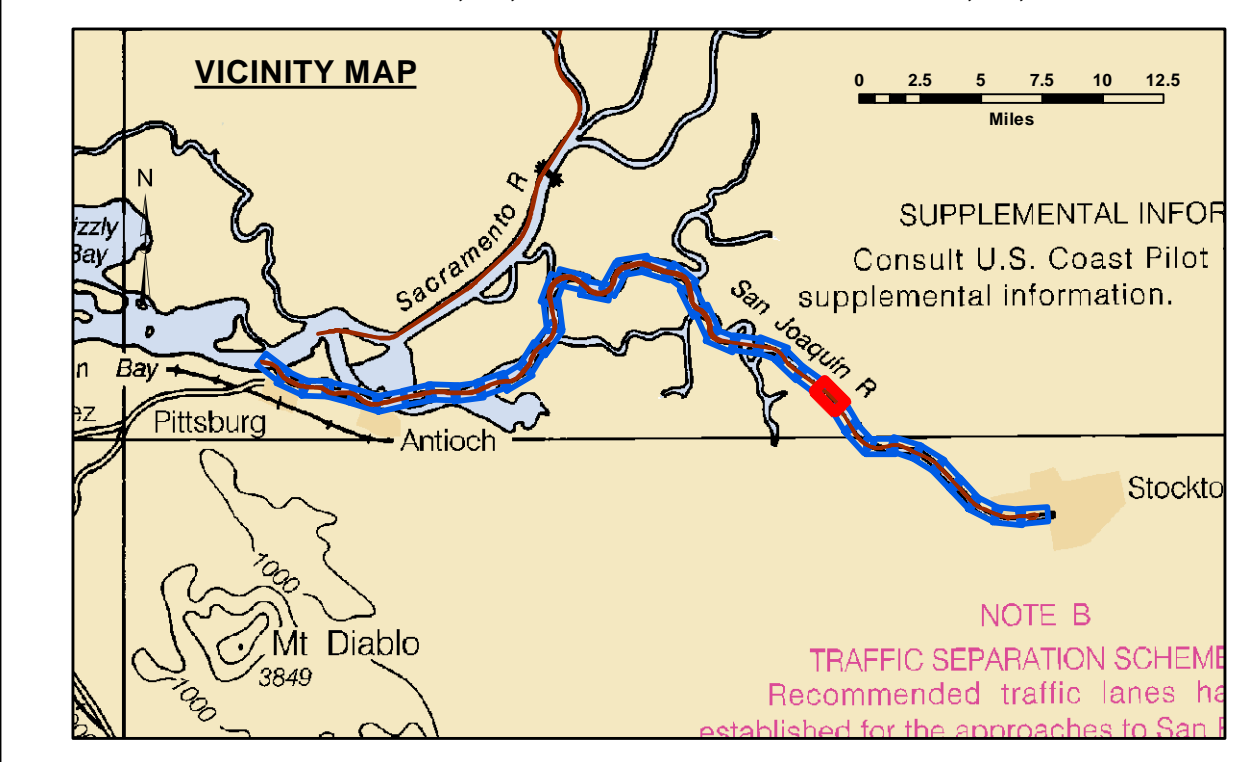
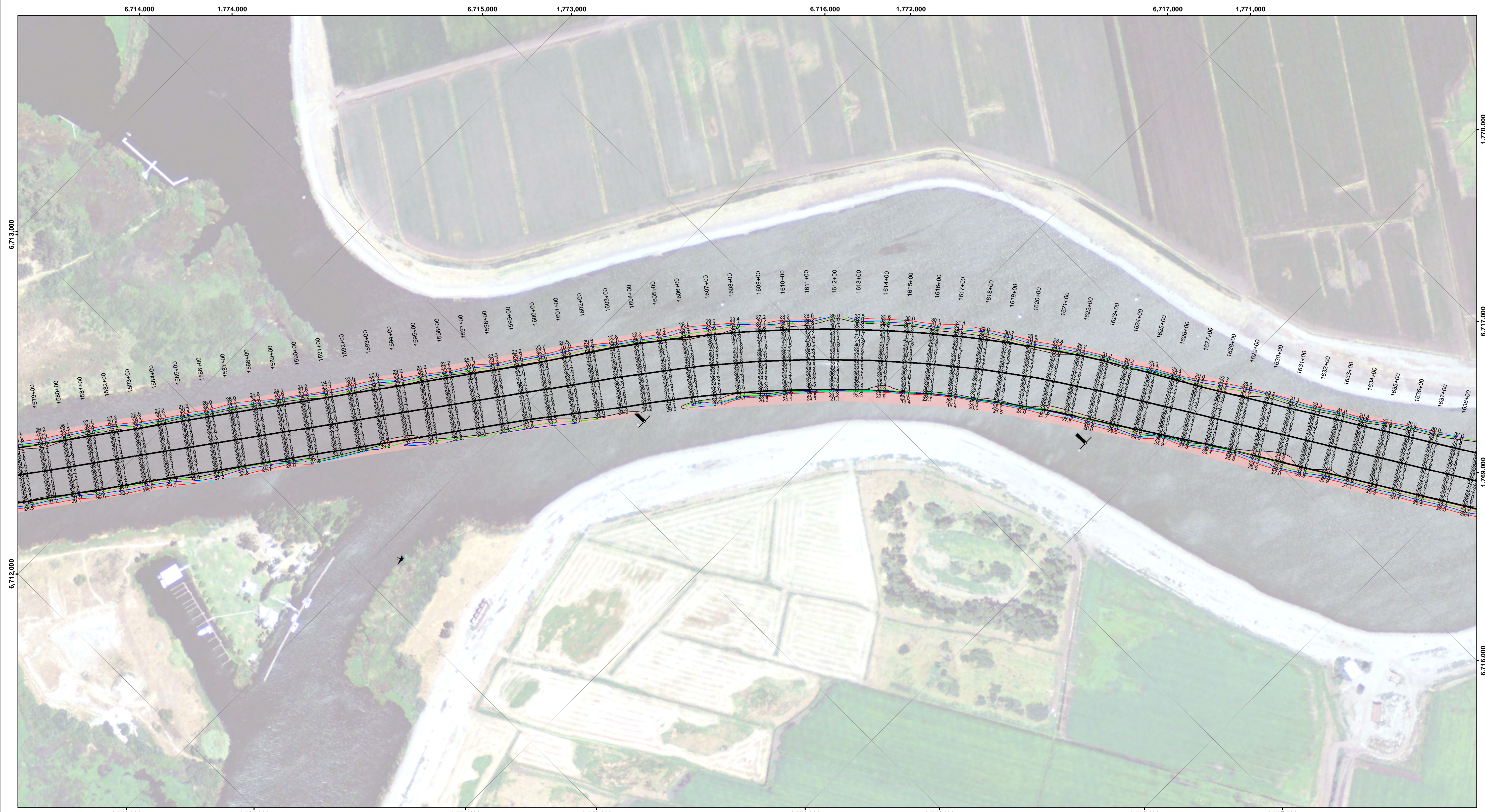
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Chart Date:	Jul 22, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
28 of 39



Feet
0 400 800 1,200

LEGEND			Contours	
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— -35	
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General	— -33	
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -32	
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
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LOCATION: PORT OF STOCKTON
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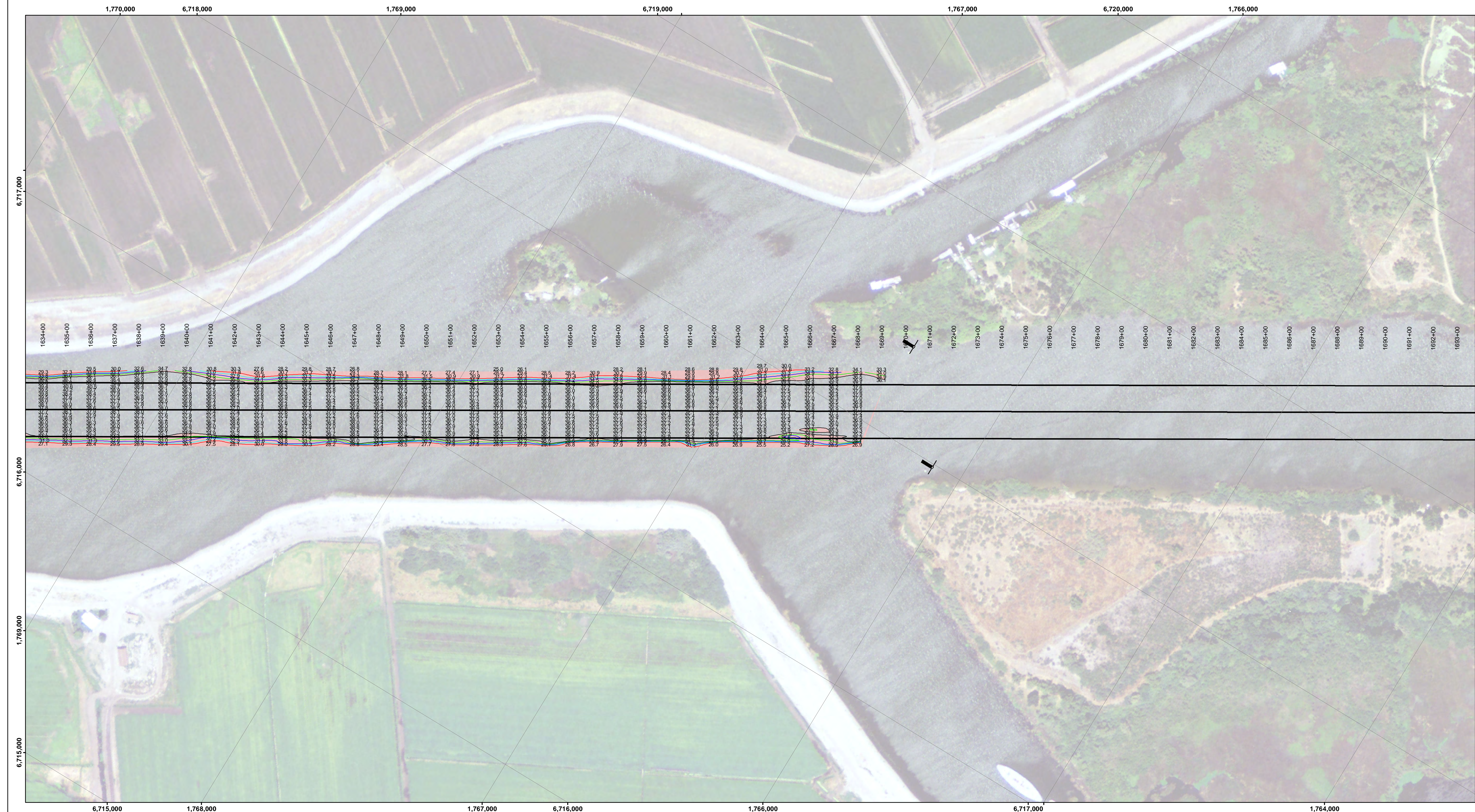
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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

PREPARED UNDER THE DIRECTION OF
LT. COLONEL C.E. DISTRICT ENGINEER
Sounding: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

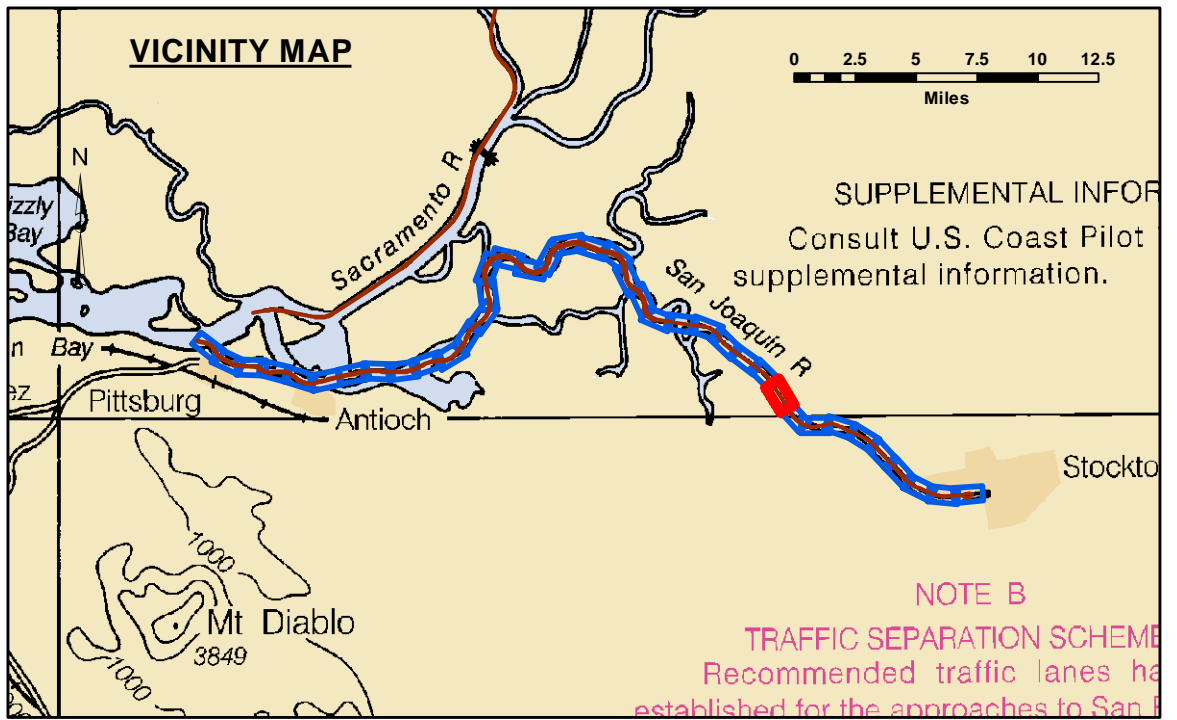
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
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Prepared Under the Direction of KEVIN P. ARNETT LT Colonel, C.E. District Engineer	Chart Date: Jul 22, 2021
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked by: PDT	
Approved: Chief, Construction Branch	



LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✶ Wrecks-Submerged	◆ Green Navigation Buoy

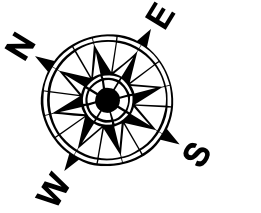
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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 PROJECT DEPTH: -35'
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LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

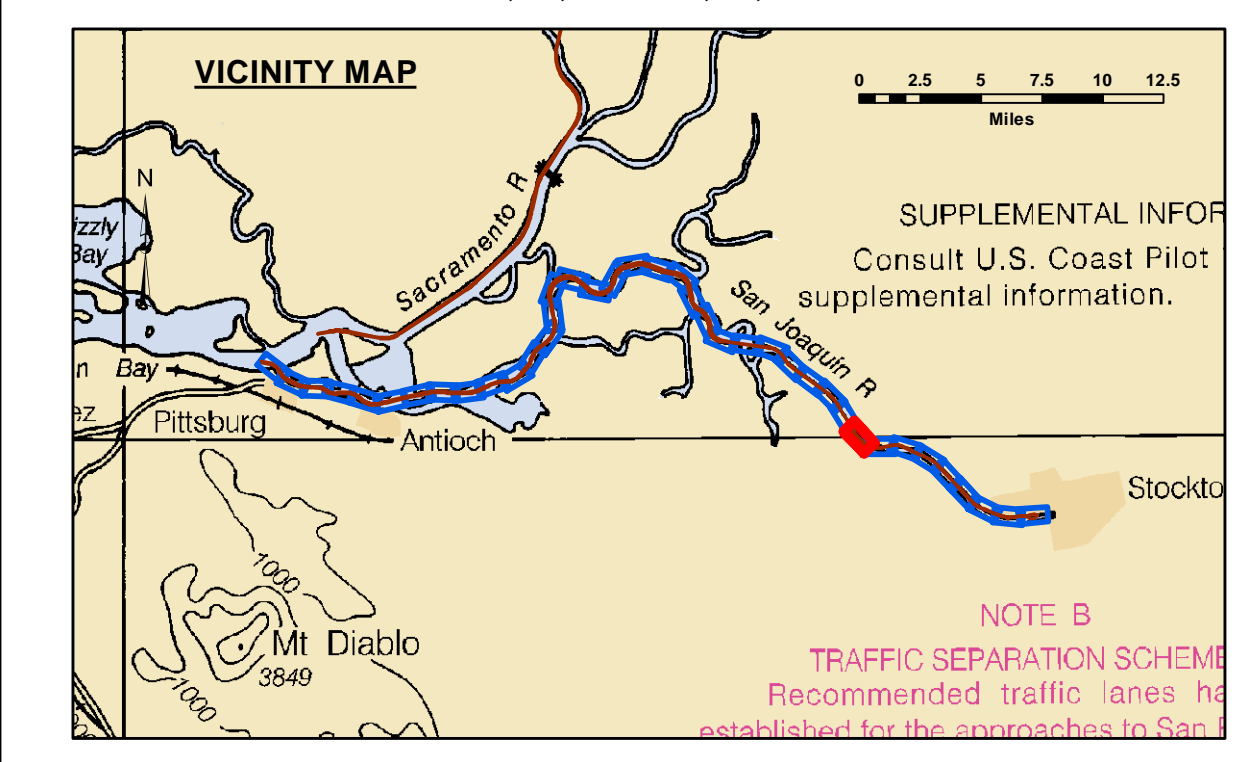
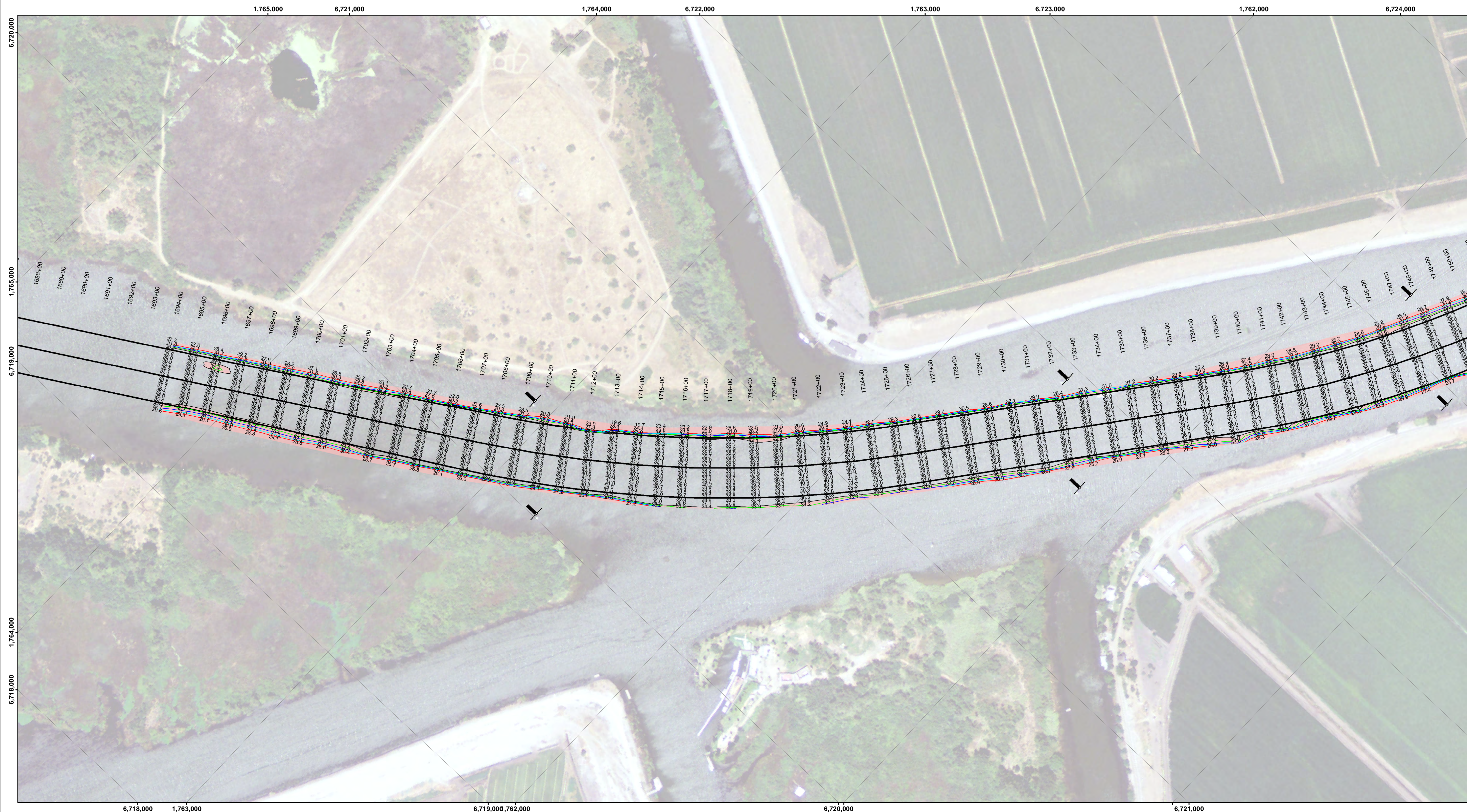
OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W



CALIFORNIA
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 08-12 JULY 2021

Sheet Reference Number
30 of 39



Feet
0 400 800 1,200

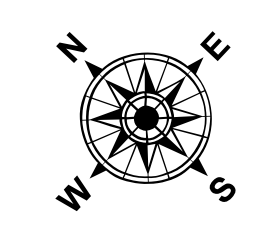
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— -35
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -34
..... Cable Submarine	▭ Anchorage Area	⊥ Beacon, General	— -33
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -32
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -31

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

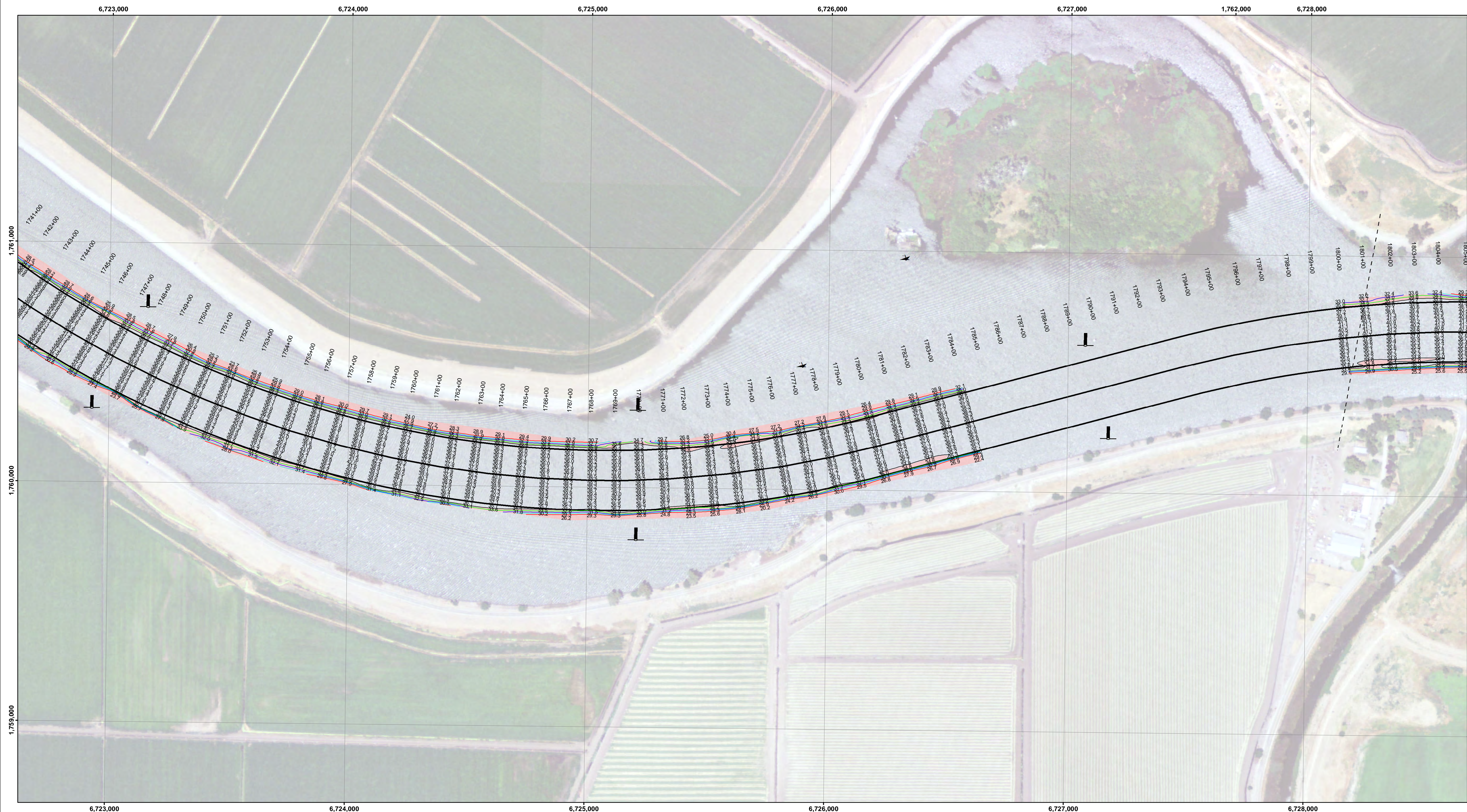


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Prepared Under the Direction of KEVIN P. ARNETT LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Jul 22, 2021
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Checked by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
31 of 39



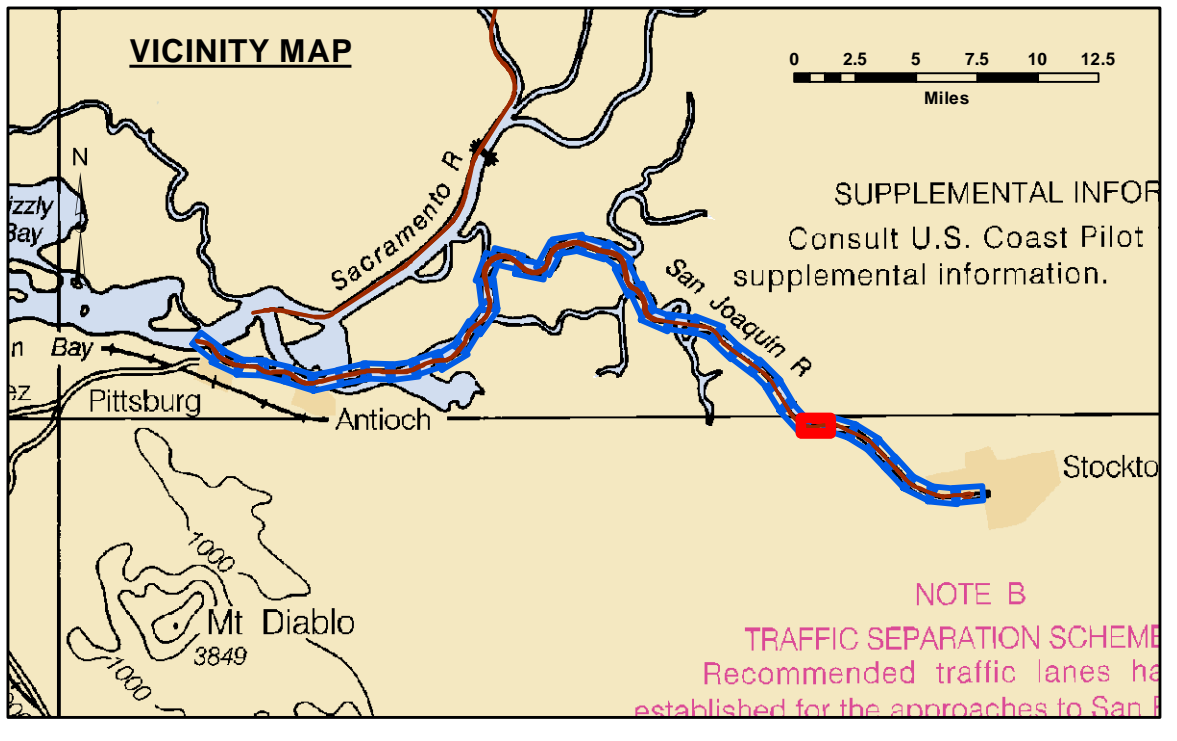
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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 08-12 JULY 2021

Sheet Reference Number
32 of 39



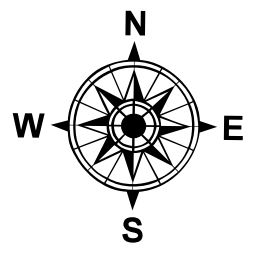
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▨ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⊥ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

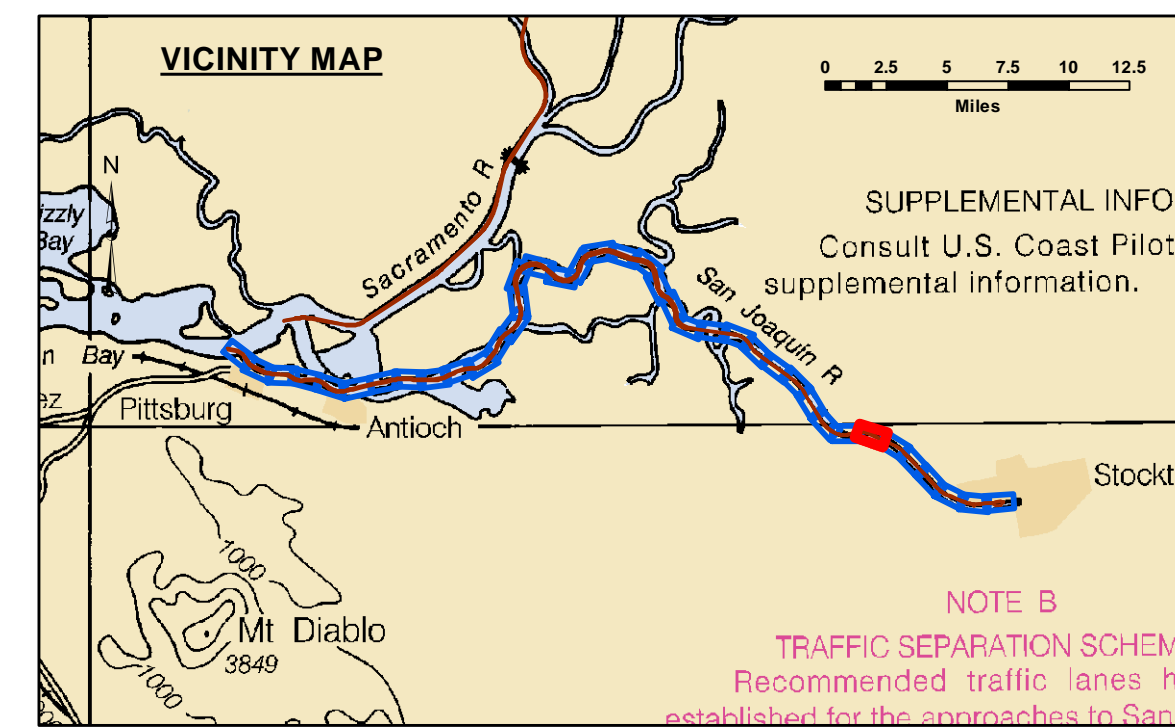
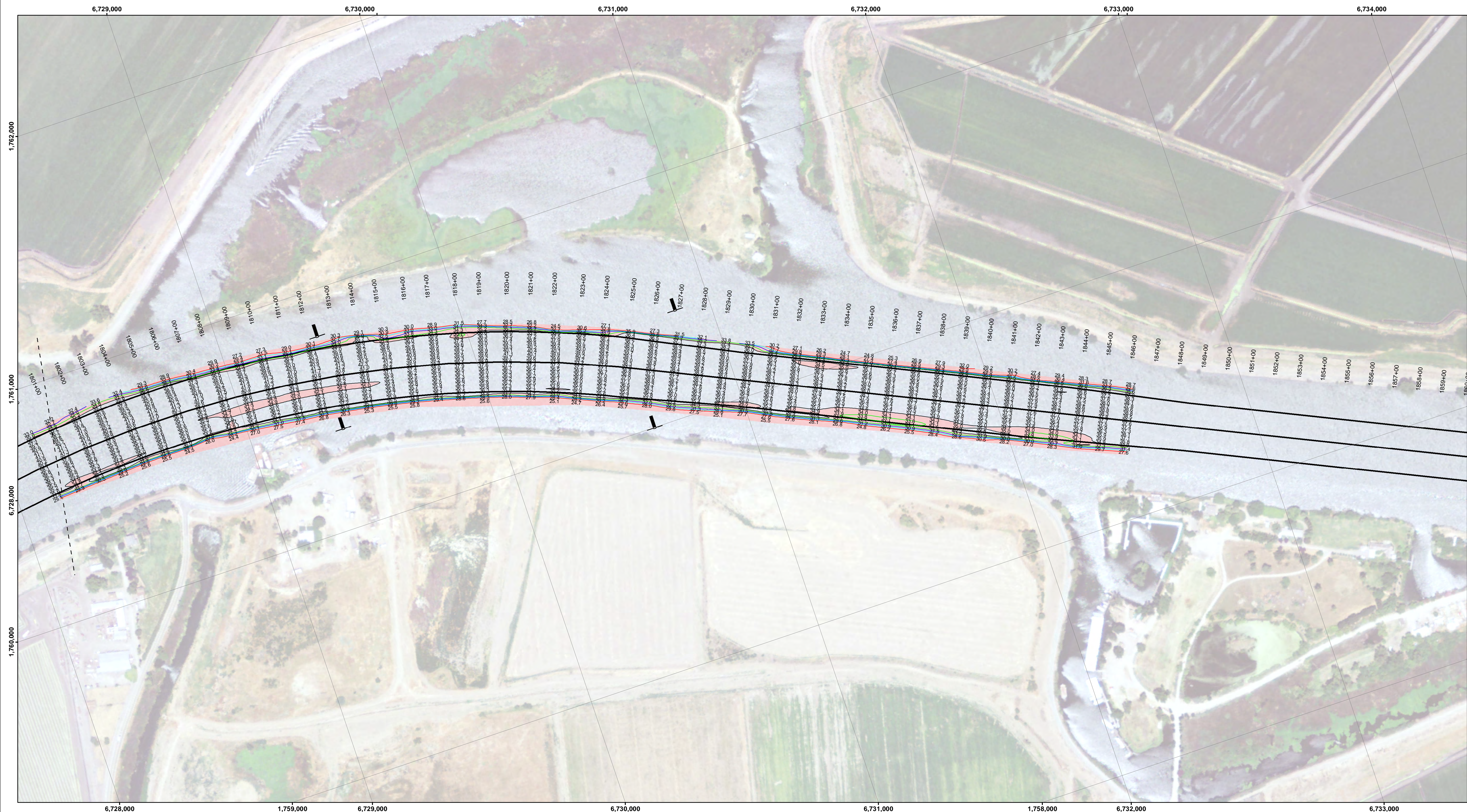
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
 DAY MARKER 19 = 8.2 FT MLLW
 DAY MARKER 27 = 9.0 FT MLLW
 DAY MARKER 29 = 9.0 FT MLLW
 PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W





LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy

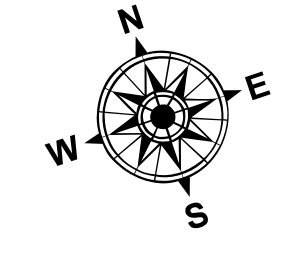
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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VERTICAL DATUM: MLLW
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CONTROLS:
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NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

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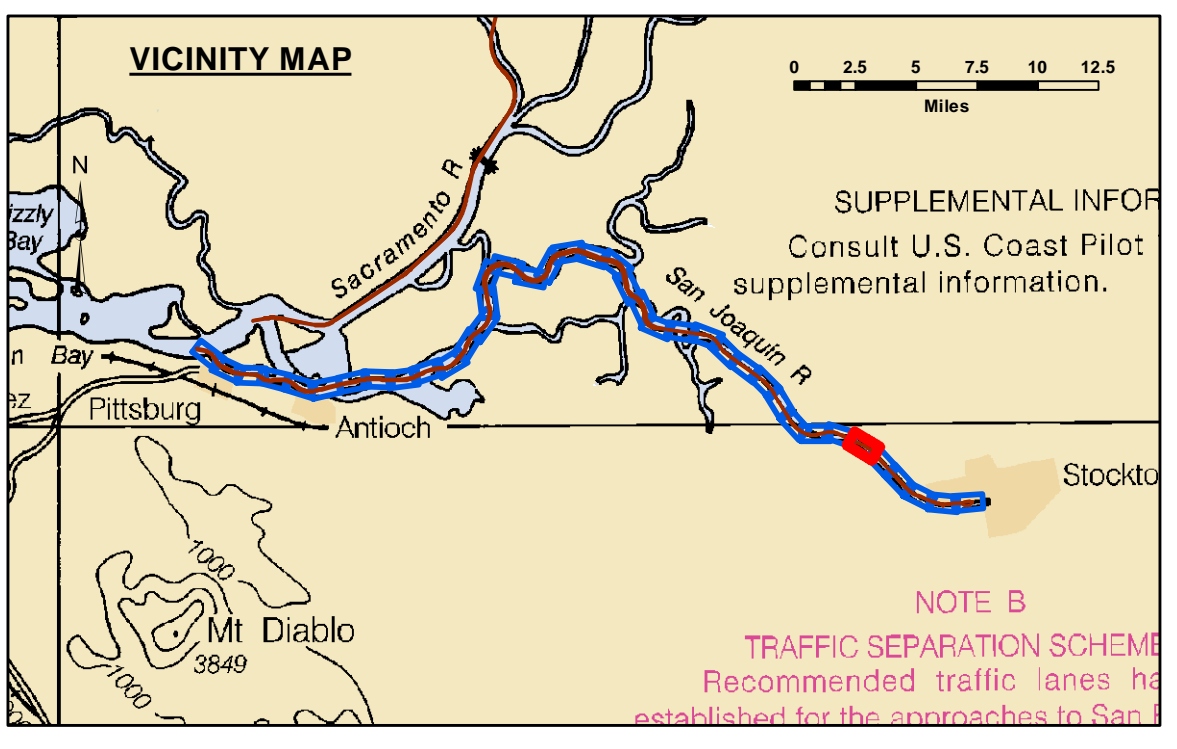
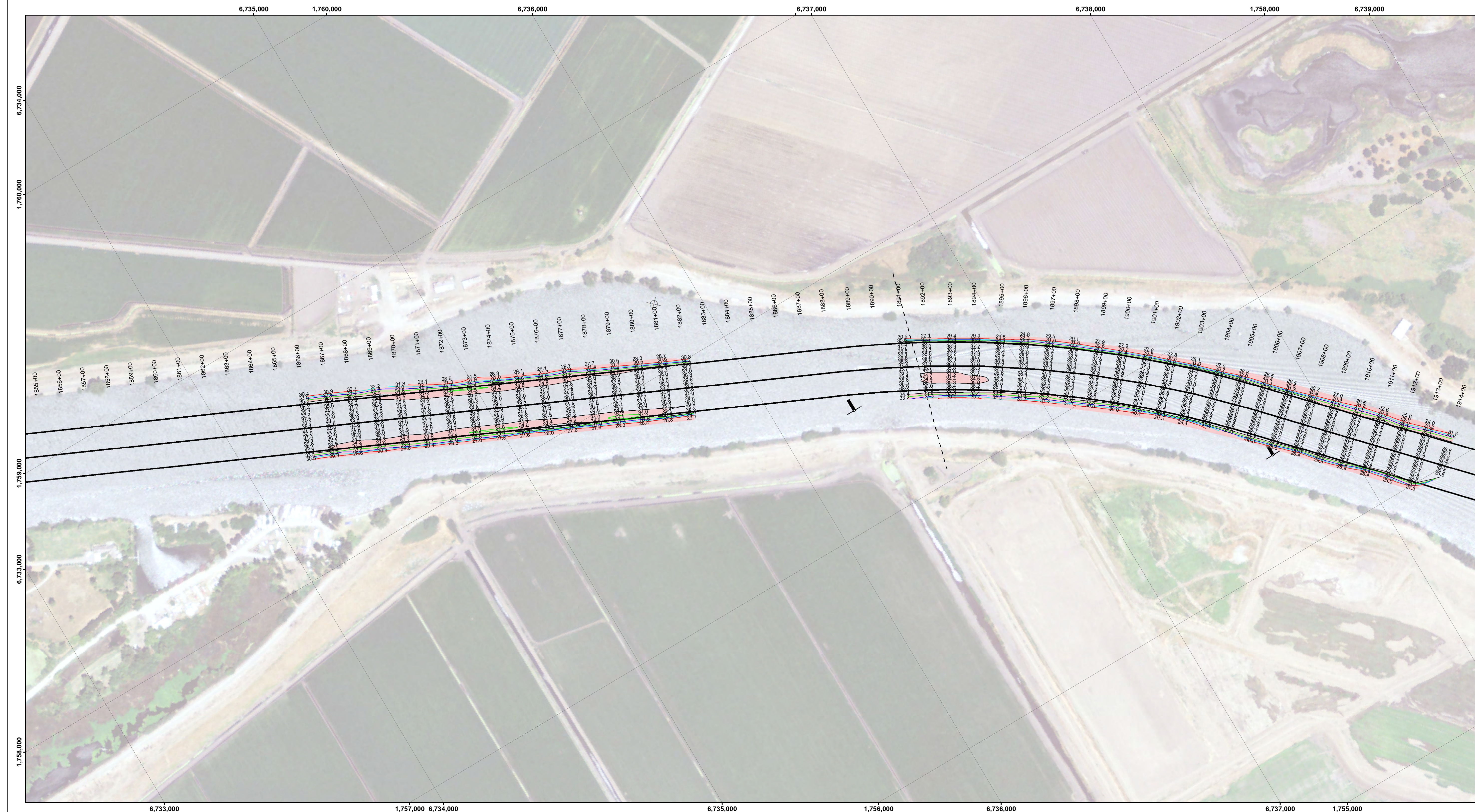
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Chart Date:	Jul 22, 2021
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Designed By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
33 of 39



LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy

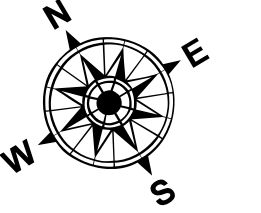
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
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NAIL @ 10.0 FT MLLW
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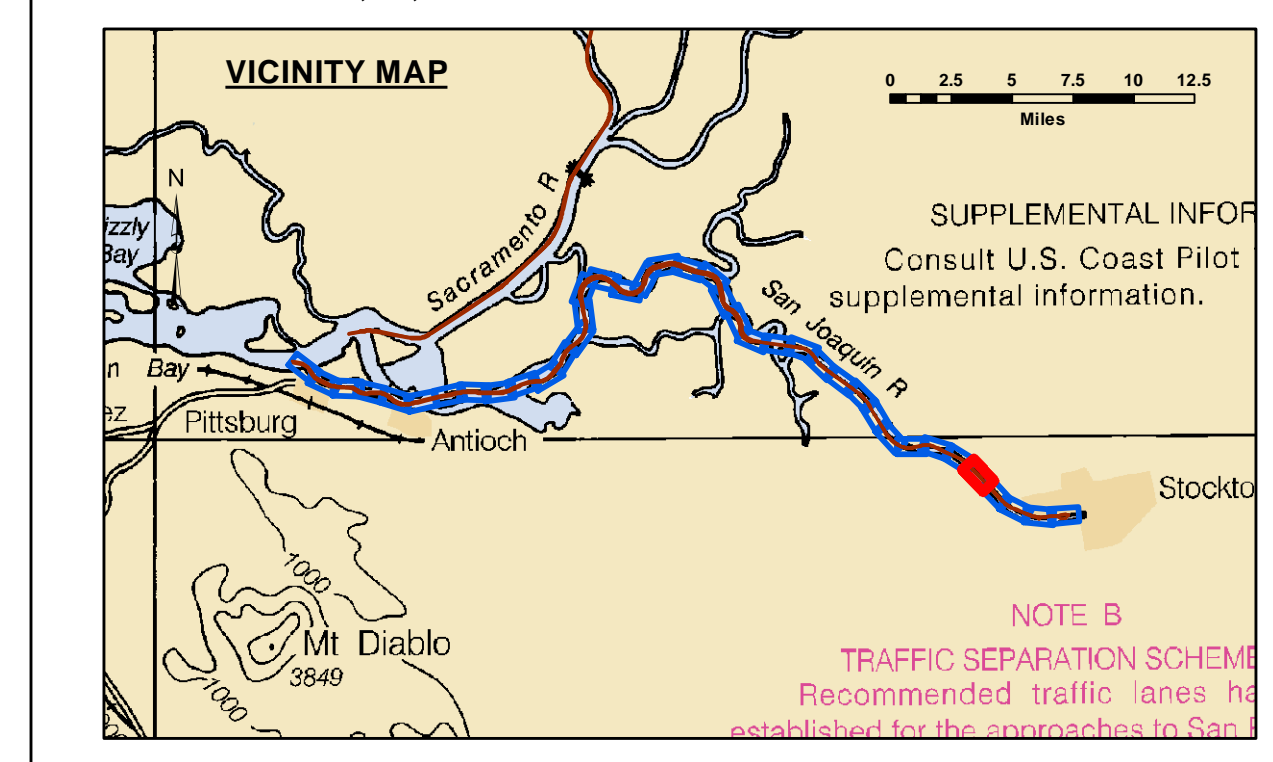
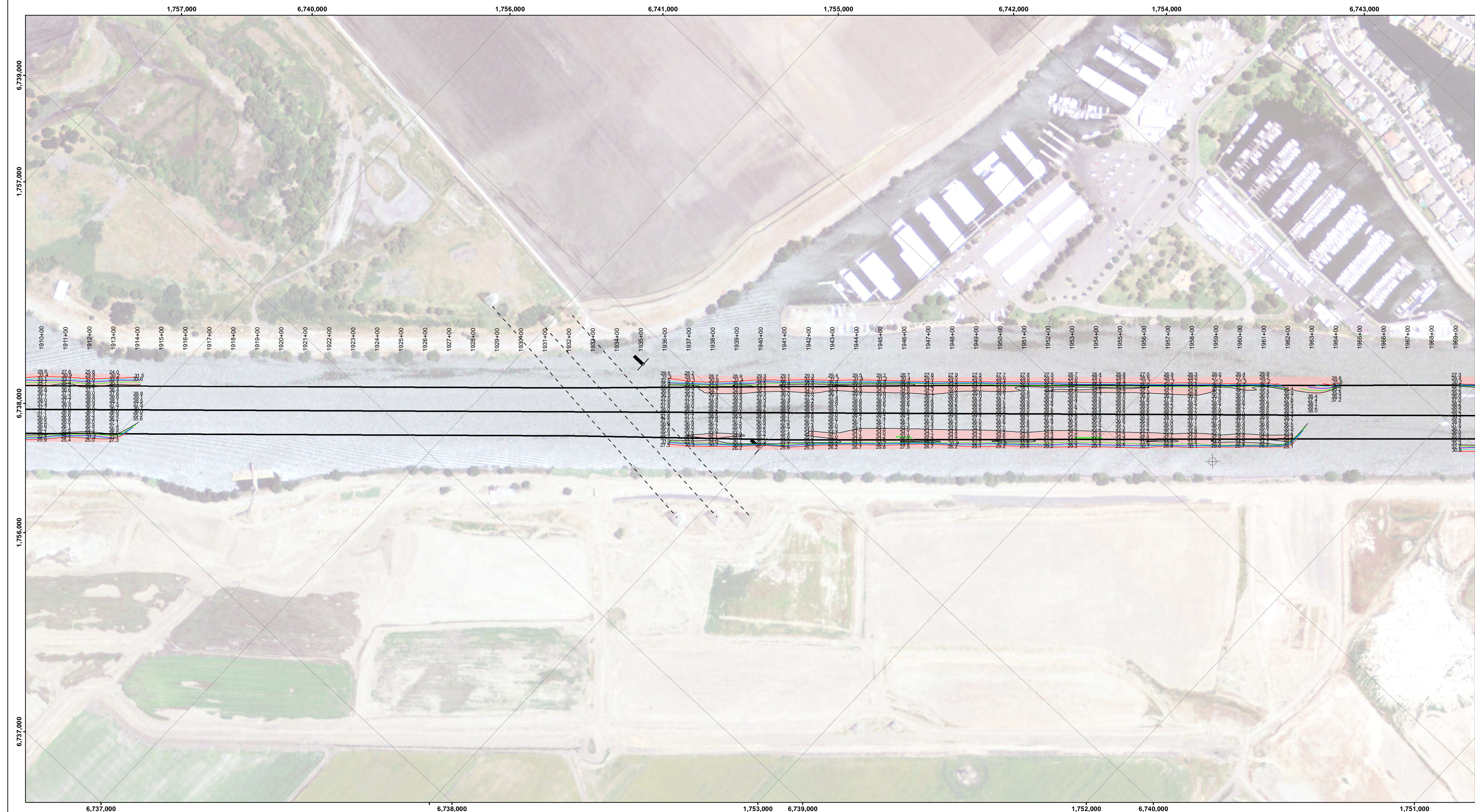
Chart Date:	Jul 22, 2021
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	PDT

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

Sanjoquin: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
34 of 39



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		♦ Green Navigation Buoy	

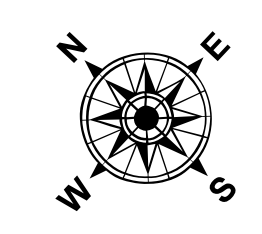


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VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
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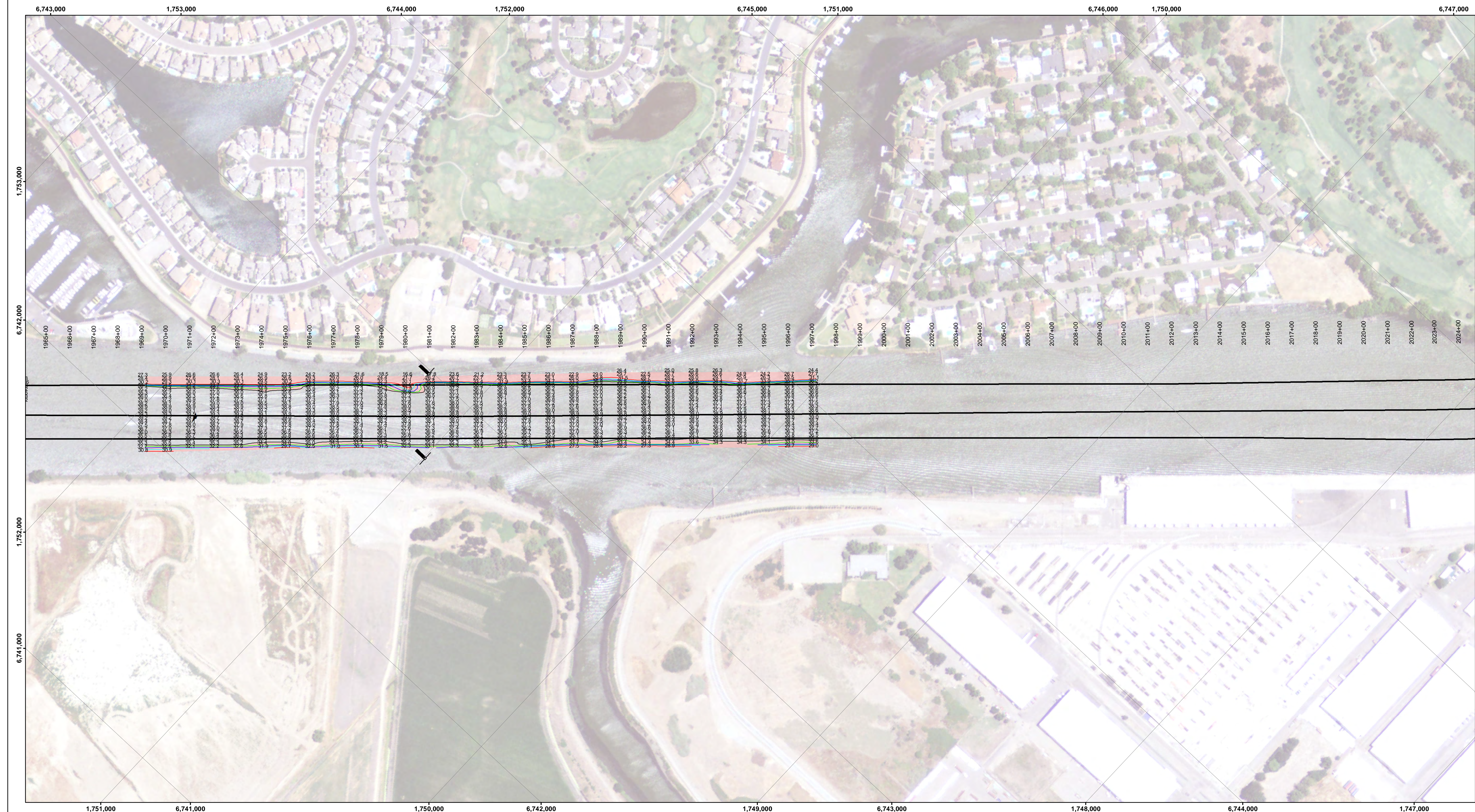
Chart Date:	Jul 22, 2021
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Plotted by:	PDT
Surveyed By:	

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E. DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Station
Approved: Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

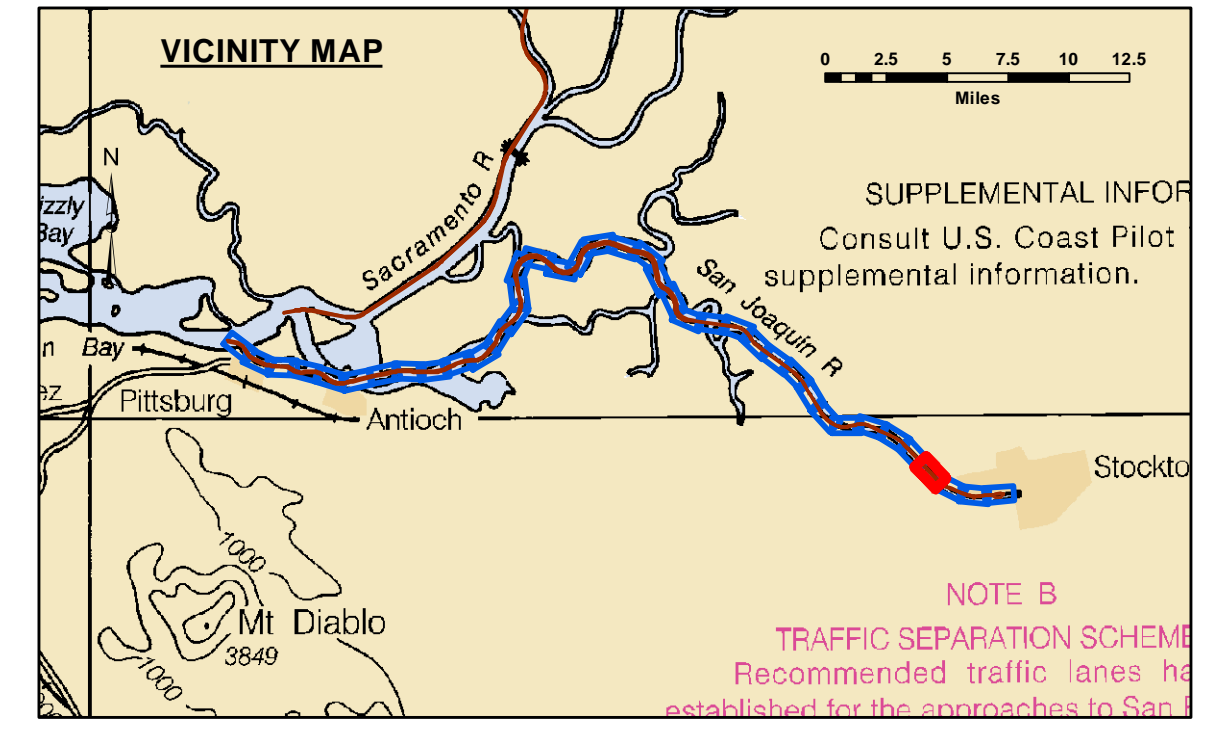
Sheet Reference Number
35 of 39



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Chart Date:	Jul 22, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch



Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy	— -33
— Contour Line	✶ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

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VERTICAL DATUM: MLLW
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NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

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DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
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PORT OF STOCKTON TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

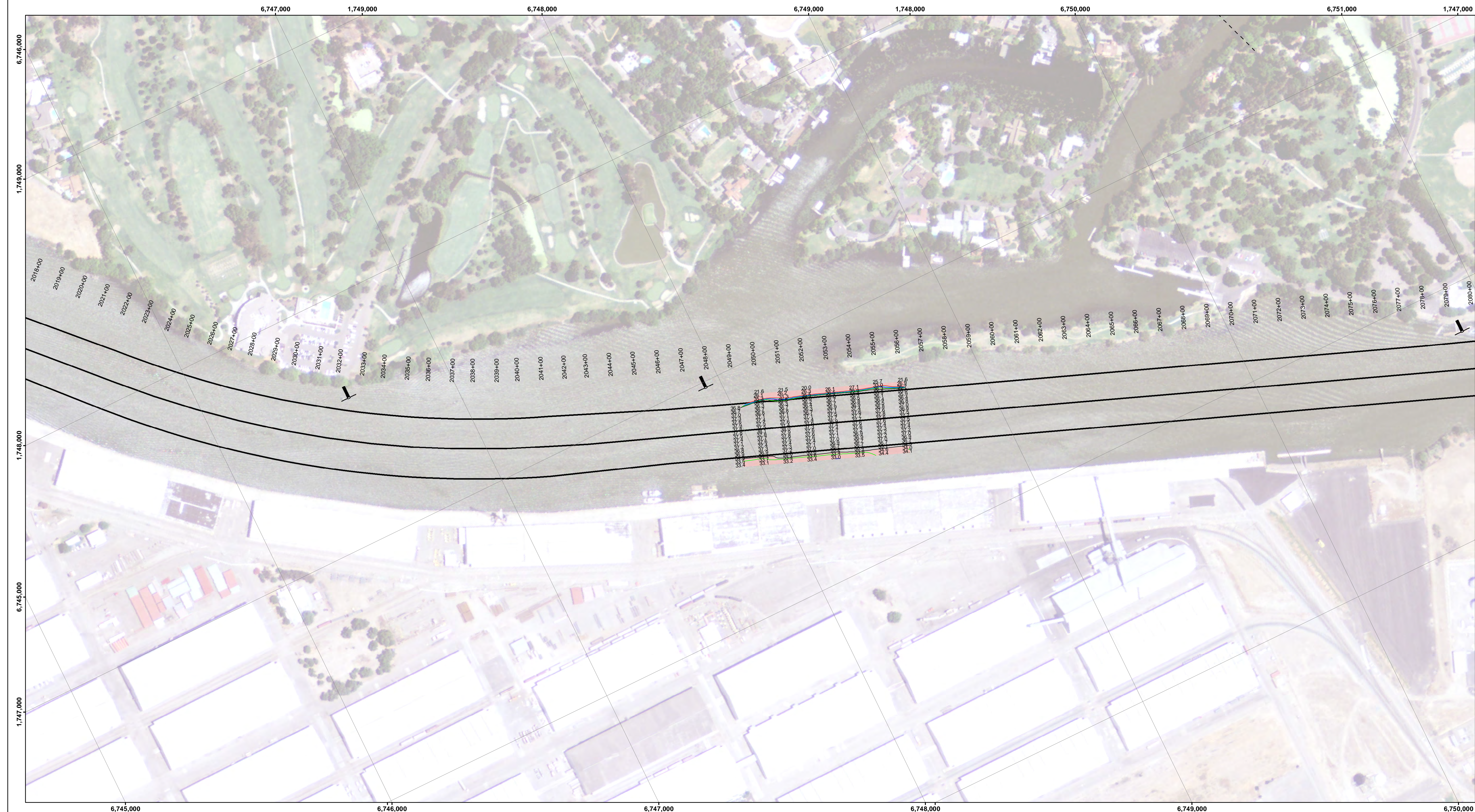
CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W



CALIFORNIA
SAN JOAQUIN COUNTY

**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021**

**Sheet
Reference
Number
36 of 39**

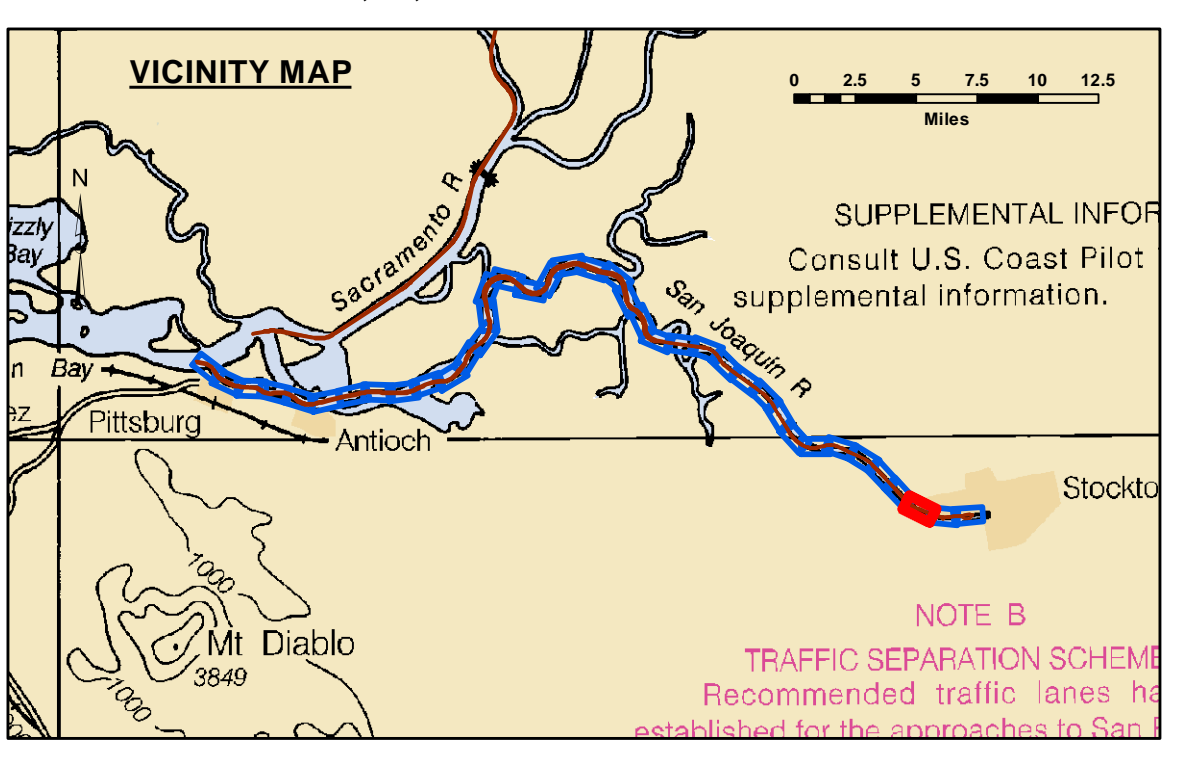


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Prepared Under the Direction of KEVIN P. ARNETT LT Colonel, C.E., District Engineer	Surveyed By: PDT	Chart Date: Jul 22, 2021
Stipulated: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Station	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CALIFORNIA
SAN JOAQUIN COUNTY
**STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY**
08-12 JULY 2021



Feet
0 400 800 1,200

LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
..... Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy
— Contour Line	✶ Wrecks-Submerged	◆ Green Navigation Buoy

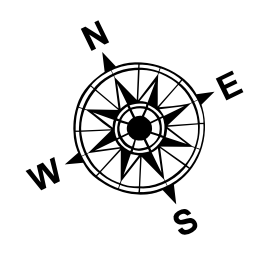
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

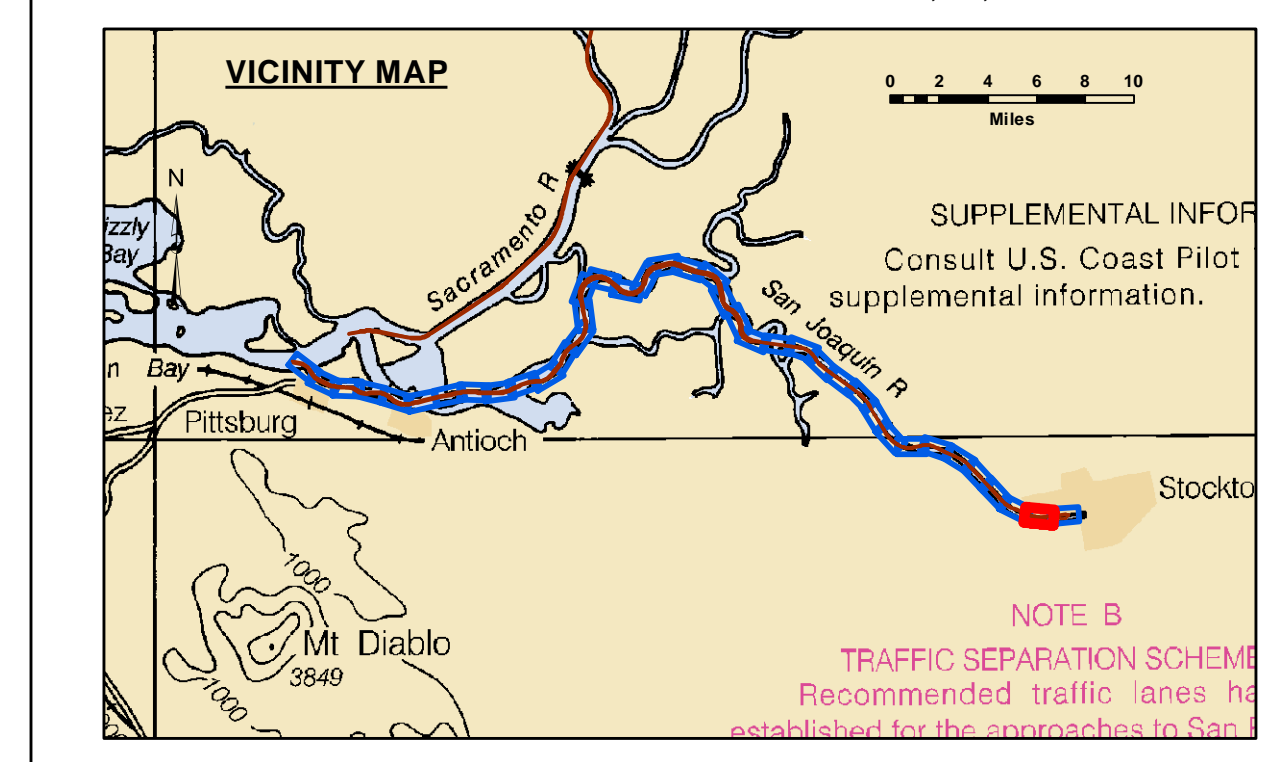
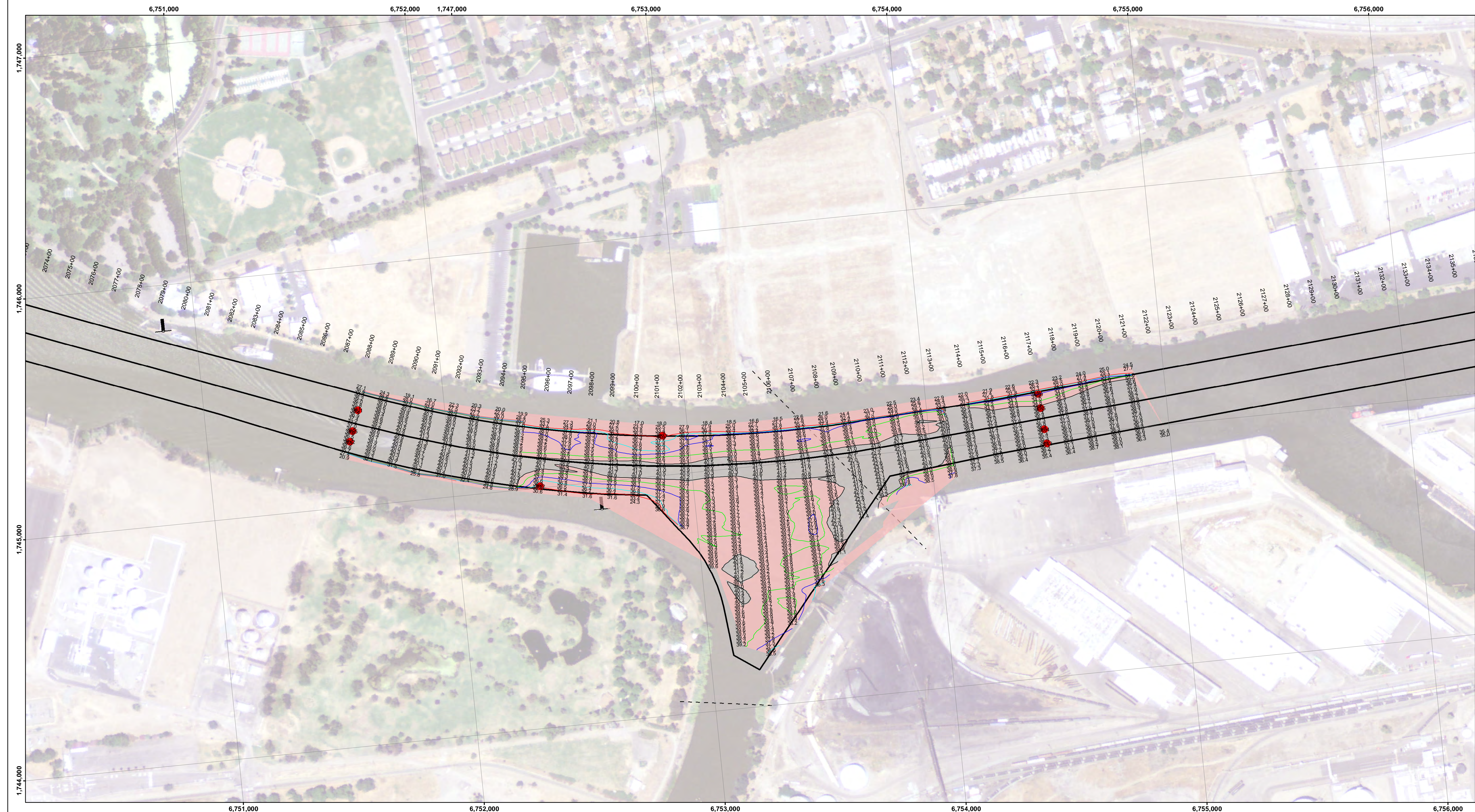
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LOCATION: ANTIOCH
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BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

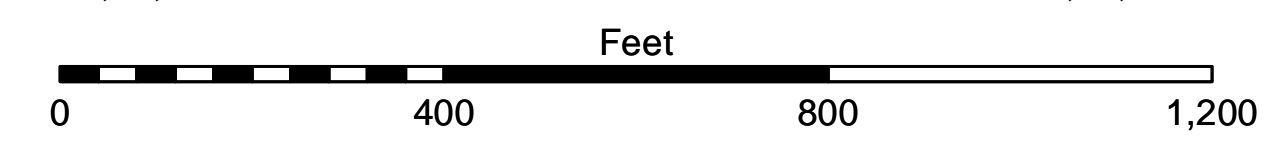
OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW





LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy

Contours	
—	-40
—	-39
—	-38
—	-37
—	-36

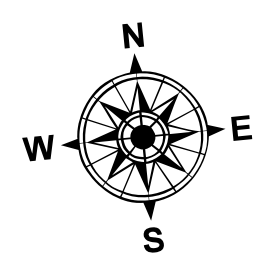


NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW



DISCLAIMER: The United States Government furnishes this data for informational purposes only. It is not intended for navigation. The user is responsible for the results of any use of this data for other than its intended purpose. The user is responsible for the results of any use of this data for other than its intended purpose. The user is responsible for the results of any use of this data for other than its intended purpose.

Chart Date:	Jul 22, 2021
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E. DISTRICT ENGINEER

Supervised: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
SEDIMENT TRAP
CONDITION SURVEY
08-12 JULY 2021

Sheet Reference Number
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