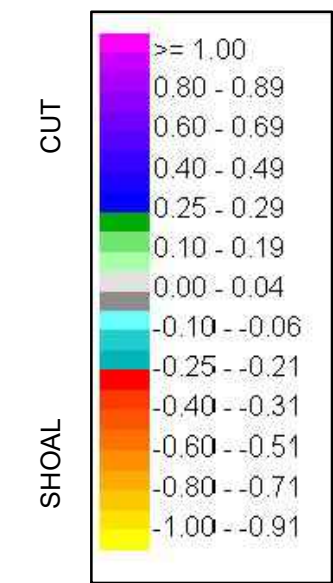


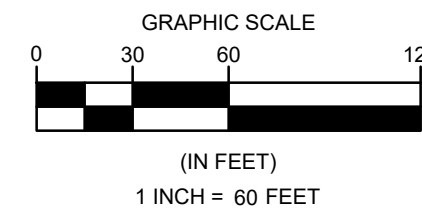
- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS CREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - PROJECT DATUM: MLLW
 - COORD. SYSTEM: CA ZONE III
 - THE INFORMATION DEPICTED IN THIS PLAN REPRESENTS THE RESULTS OF BATHYMETRIC SURVEYS MERGED WITH LIDAR DATA EXTENDING UP THE SHORE BANKS BEYOND BATHYMETRIC SURVEYS. SURVEY RESULTS ARE INDICATIVE OF THE SURVEY DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATION OF GENERAL SURVEY CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS, OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FORTH FOR MORE DETAILED INFORMATION.
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SOUNDING LEGEND 2017 vs 2024

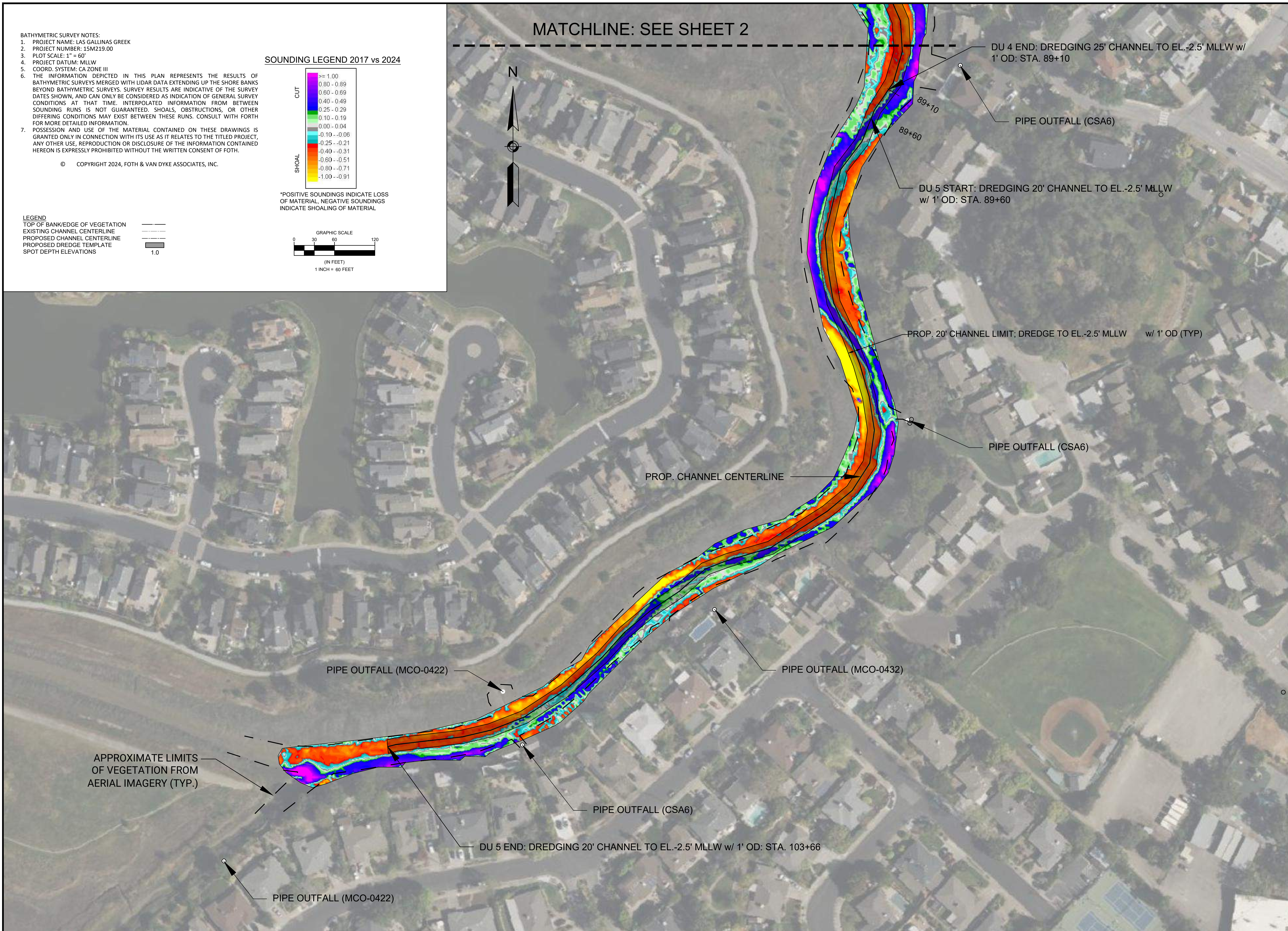


*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL

- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



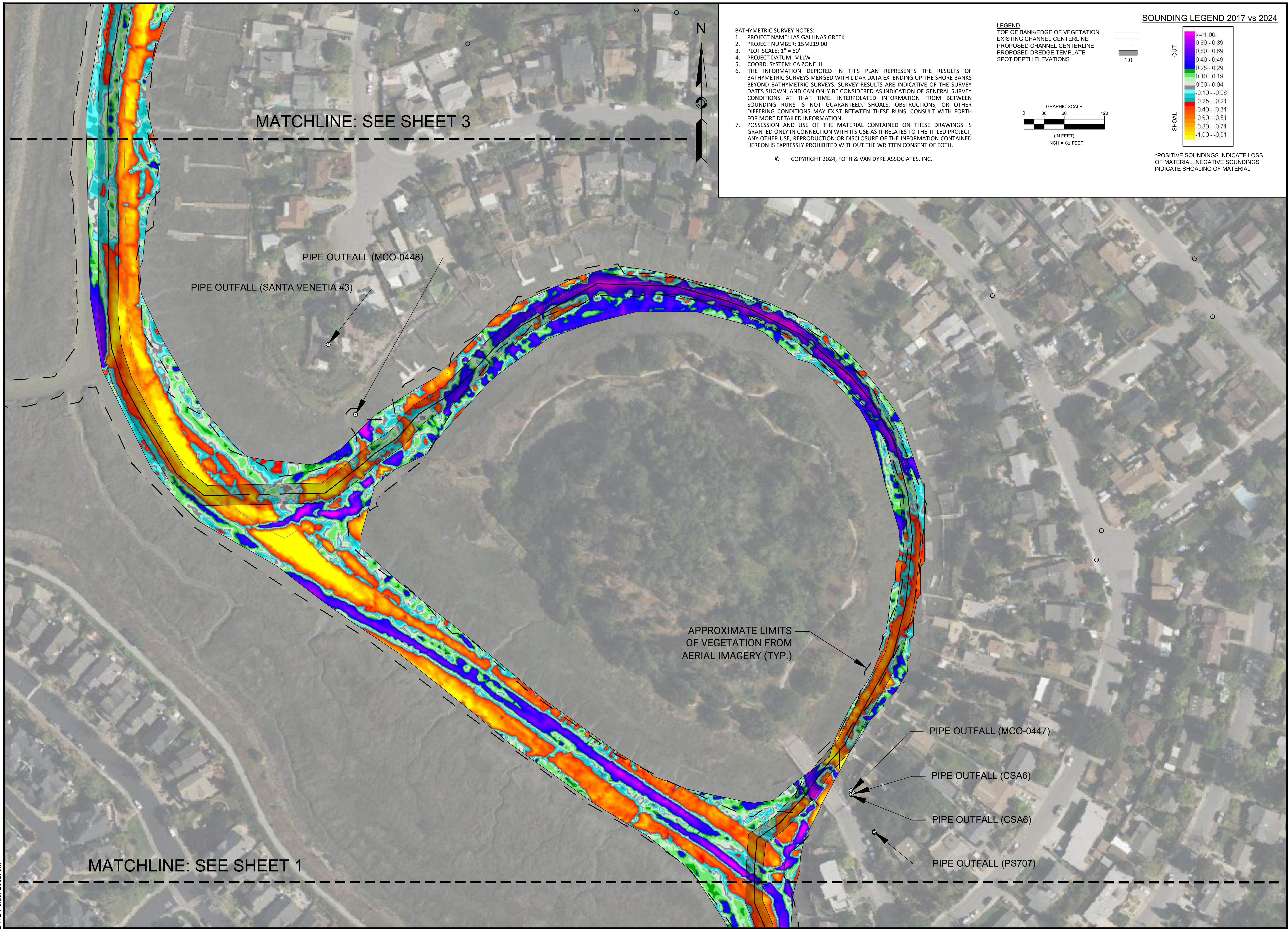
MATCHLINE: SEE SHEET 2



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

2023 SHOALING
PLOT
DRAFT
ISSUANCE:
**NOT FOR
CONSTRUCTION**
PROJECT NO: 0015M219
SHEET NUMBER
1 of 9



BATHYMETRIC SURVEY NOTES:

- PROJECT NAME: LAS GALLINAS CREEK
- PROJECT NUMBER: 15M219.00
- PLOT SCALE: 1" = 60'
- PROJECT DATUM: MLLW
- COORD. SYSTEM: CA ZONE III
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LEGEND

- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS

SOUNDING LEGEND 2017 vs 2024

CUT

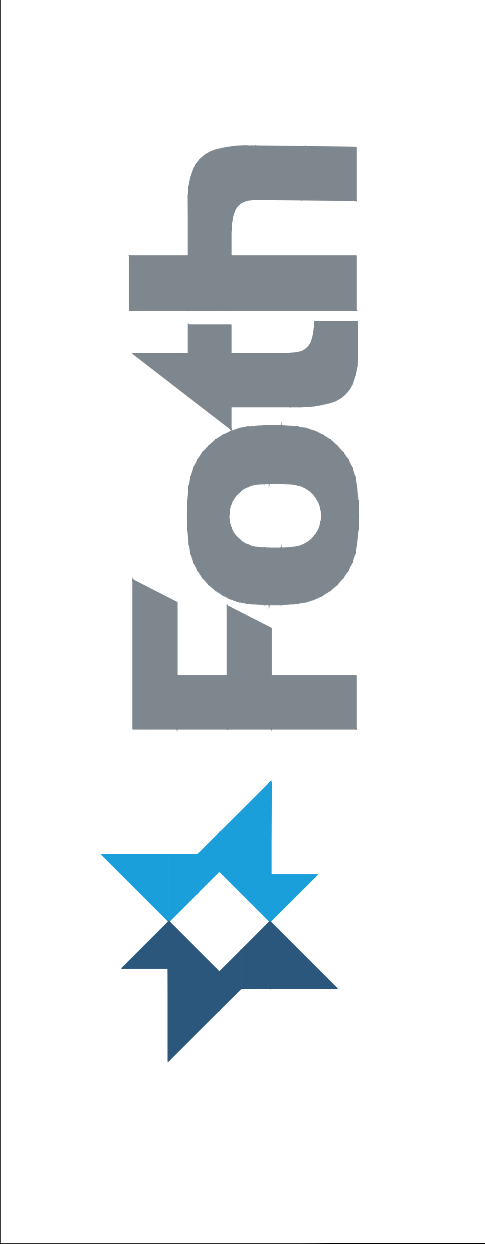
- ≥ 1.00
- 0.80 - 0.89
- 0.60 - 0.69
- 0.40 - 0.49
- 0.25 - 0.29
- 0.10 - 0.19
- 0.00 - 0.04
- 0.10 - -0.06
- 0.25 - -0.21
- 0.40 - -0.31
- 0.60 - -0.51
- 0.80 - -0.71
- 1.00 - -0.91

SHOAL

*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL. NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL.

GRAPHIC SCALE

0 30 60 120
(IN FEET)
1 INCH = 60 FEET



**LAS GALLINAS CREEK 2023
CONDITIONS SURVEY**

MARIN COUNTY, CA

**LAS GALLINAS MAINTENANCE
DREDGING PROJECT**

REVISIONS		DATE OF PREPARATION
NO.	DESCRIPTION	BY DATE
1		
2		
3		
4		
5		

SURVEYED	BY	DATE
BMS		09/30/2023
DRAWN	BY	DATE
EDB		02/12/2024
DESIGNED	BY	DATE
N/A		N/A
CHECKED	BY	DATE
KEC		02/12/2024

2023 SHOALING PLOT

DRAFT

ISSUANCE:

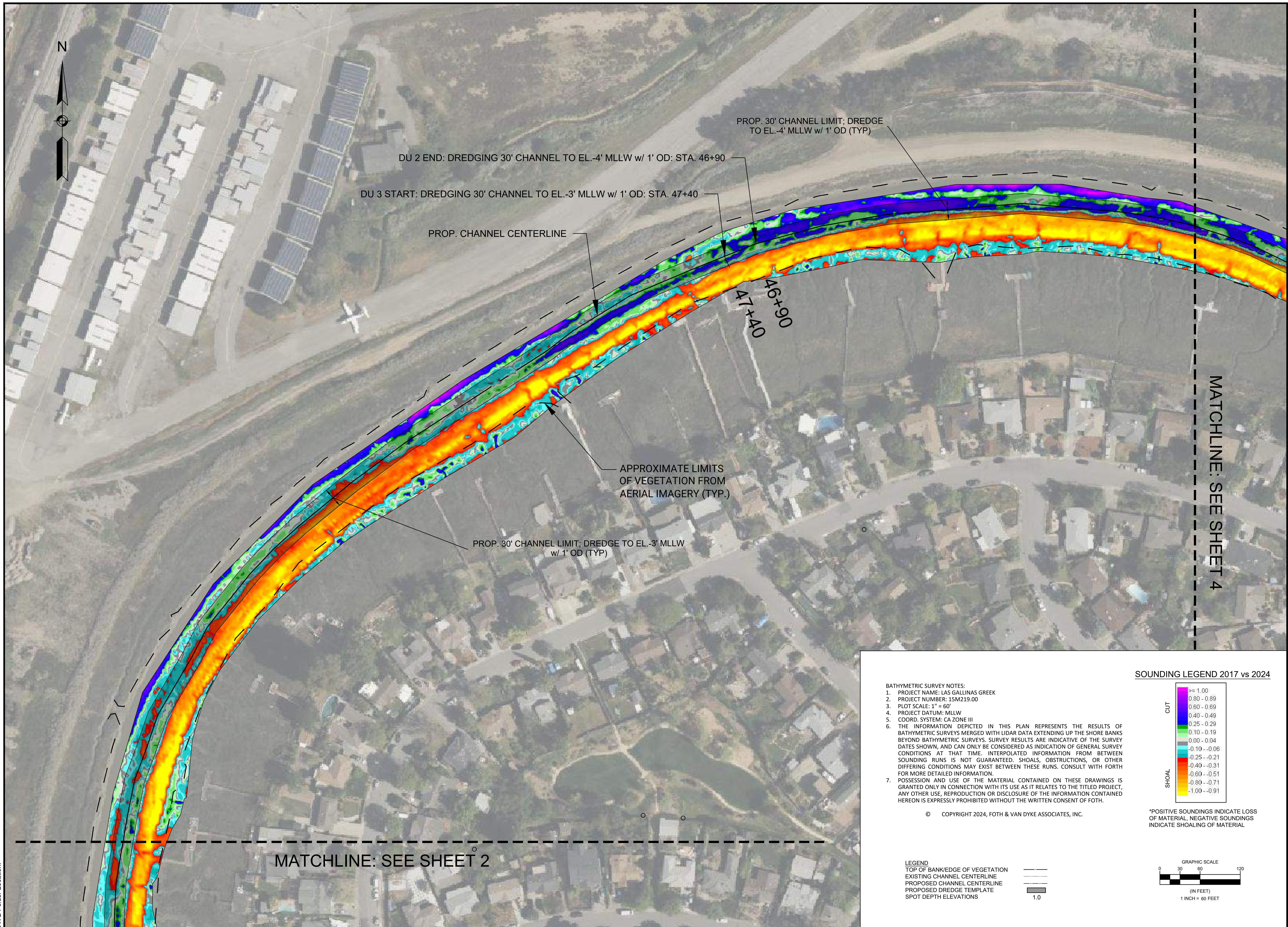
NOT FOR CONSTRUCTION

PROJECT NO: 0015M219

SHEET NUMBER

2 of 9

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DWG Folder Location:



BATHYMETRIC SURVEY NOTES:

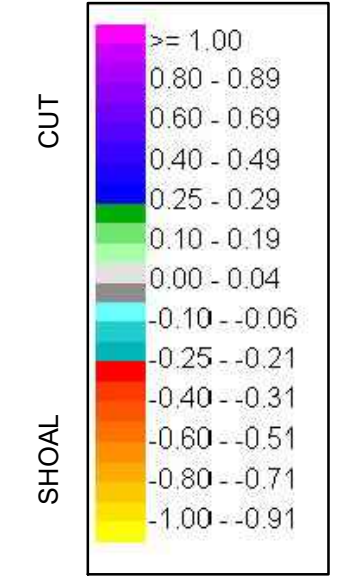
- PROJECT NAME: LAS GALLINAS CREEK
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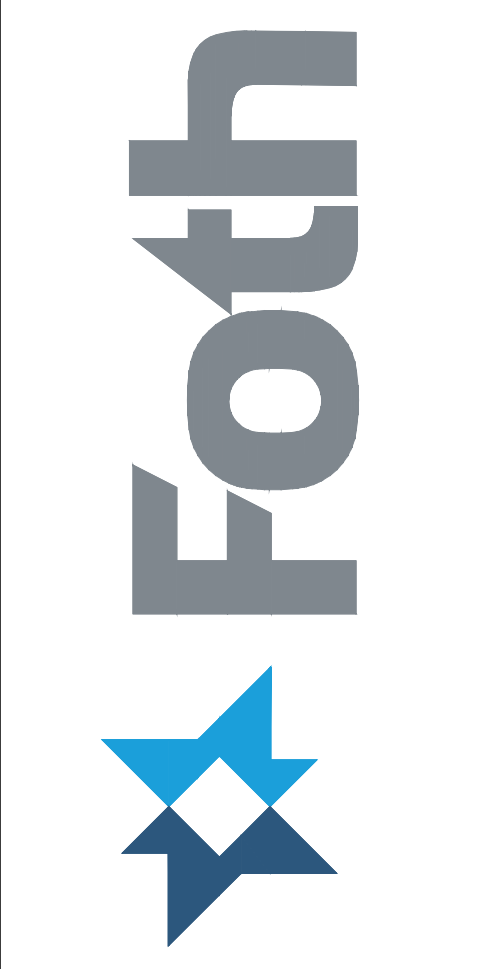
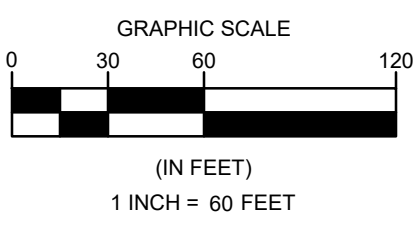
LEGEND

- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS

SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL. NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



LAS GALLINAS CREEK 2023
 CONDITIONS SURVEY
 MARIN COUNTY, CA
 LAS GALLINAS MAINTENANCE
 DREDGING PROJECT

NO.	DATE	BY	DESCRIPTION

DATE OF PREPARATION

SURVEYED	BY	DATE
BMS	BMS	09/30/2023
DRAWN	BY	DATE
EDB	EDB	02/12/2024
DESIGNED	BY	DATE
N/A	N/A	N/A
CHECKED	BY	DATE
KEC	KEC	02/12/2024

SHEET TITLE:

2023 SHOALING PLOT
DRAFT

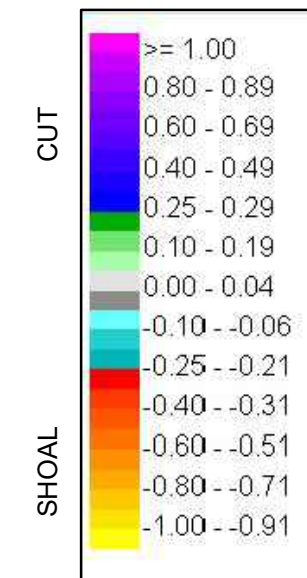
ISSUANCE:
NOT FOR CONSTRUCTION

PROJECT NO: 0015M219
 SHEET NUMBER
3 of 9

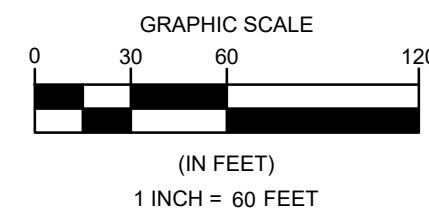
BATHYMETRIC SURVEY NOTES:
 1. PROJECT NAME: LAS GALLINAS GREEK
 2. PROJECT NUMBER: 15M219.00
 3. PLOT SCALE: 1" = 60'
 4. PROJECT DATUM: MLLW
 5. COORD. SYSTEM: CA ZONE III
 6. THE INFORMATION DEPICTED IN THIS PLAN REPRESENTS THE RESULTS OF BATHYMETRIC SURVEYS MERGED WITH LIDAR DATA EXTENDING UP THE SHORE BANKS BEYOND BATHYMETRIC SURVEYS. SURVEY RESULTS ARE INDICATIVE OF THE SURVEY DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATION OF GENERAL SURVEY CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS, OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FOTH FOR MORE DETAILED INFORMATION.
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SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



LEGEND
 TOP OF BANK/EDGE OF VEGETATION
 EXISTING CHANNEL CENTERLINE
 PROPOSED CHANNEL CENTERLINE
 PROPOSED DREDGE TEMPLATE
 SPOT DEPTH ELEVATIONS



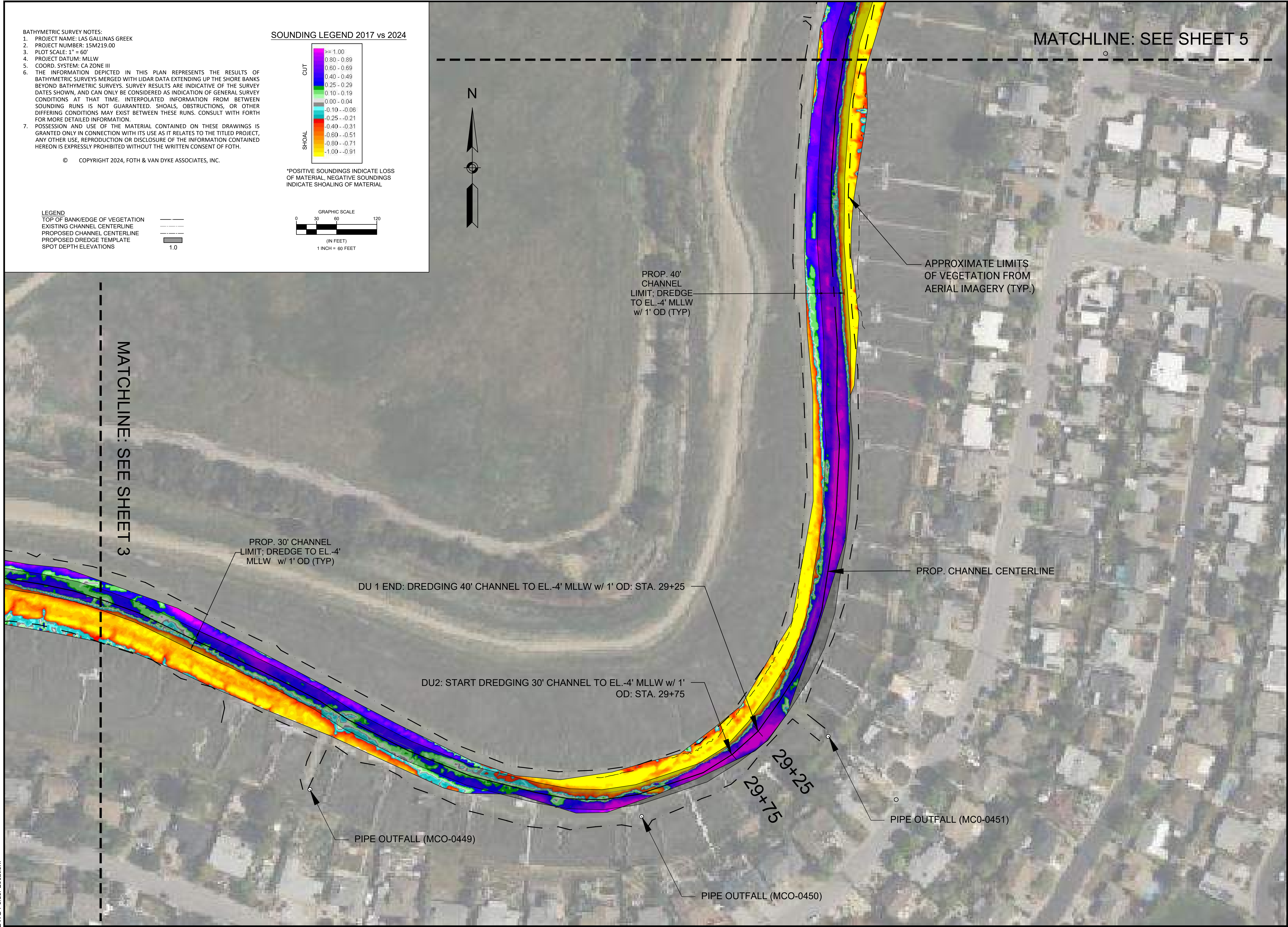
MATCHLINE: SEE SHEET 5



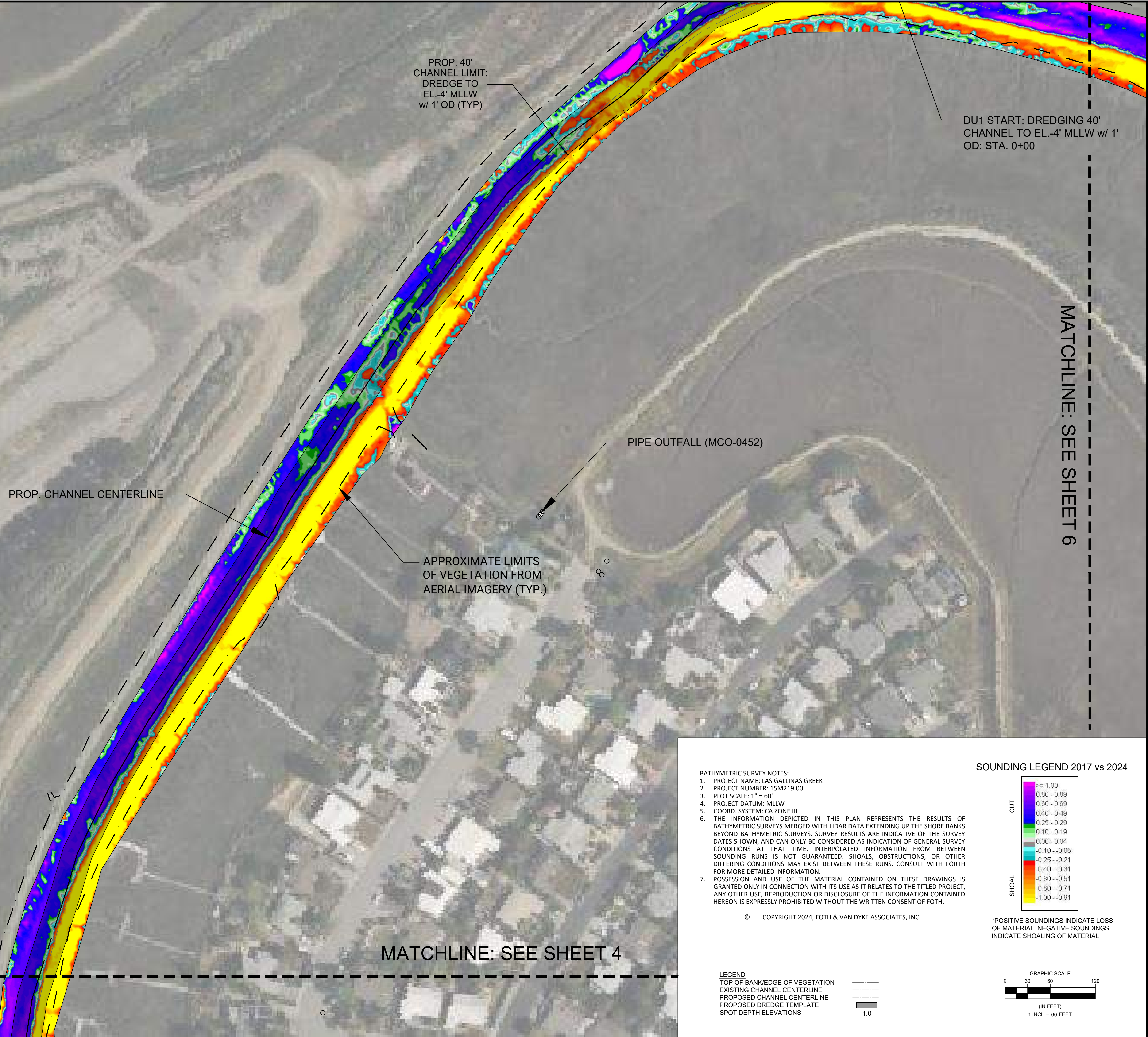
LAS GALLINAS CREEK 2023
 CONDITIONS SURVEY
 MARIN COUNTY, CA
 LAS GALLINAS MAINTENANCE
 DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

2023 SHOALING PLOT
DRAFT
 NOT FOR CONSTRUCTION
 PROJECT NO: 0015M219
 SHEET NUMBER
4 of 9



Wednesday, February 14, 2024 11:52:17 AM
 DWG Filename: las_gallinas_2023_survey_shoal_plot.dwg
 DWG Folder Location: Layout: sheet 4



PROP. 40'
 CHANNEL LIMIT;
 DREDGE TO
 EL.-4' MLLW
 w/ 1' OD (TYP)

DU1 START: DREDGING 40'
 CHANNEL TO EL.-4' MLLW w/ 1'
 OD: STA. 0+00

PROP. CHANNEL CENTERLINE

PIPE OUTFALL (MCO-0452)

APPROXIMATE LIMITS
 OF VEGETATION FROM
 AERIAL IMAGERY (TYP.)

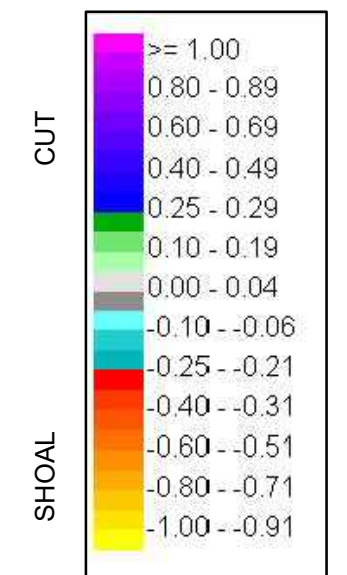
MATCHLINE: SEE SHEET 6

MATCHLINE: SEE SHEET 4

- BATHYMETRIC SURVEY NOTES:**
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - PROJECT DATUM: MLLW
 - COORD. SYSTEM: CA ZONE III
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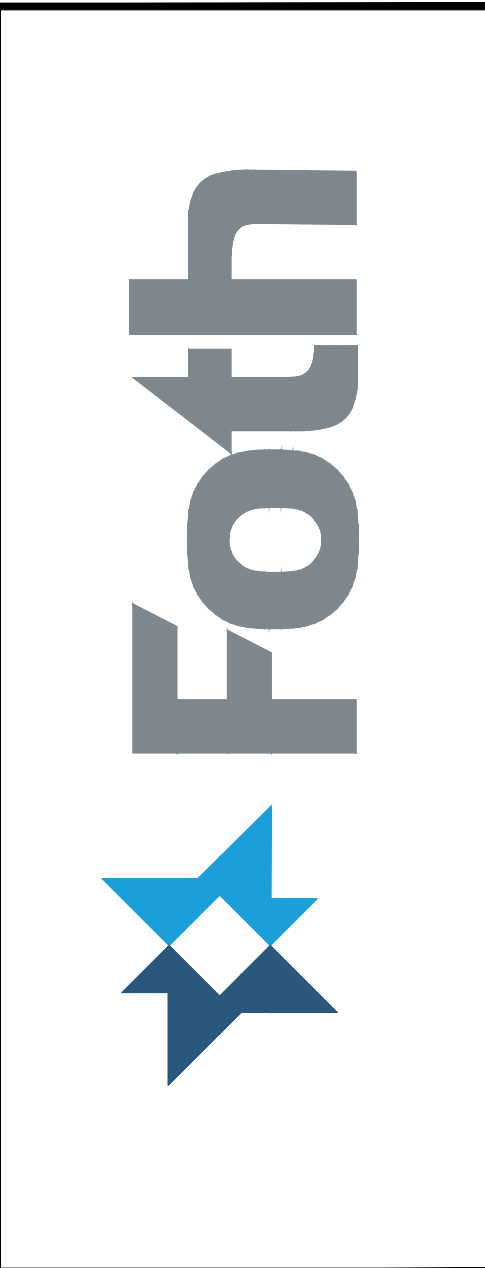
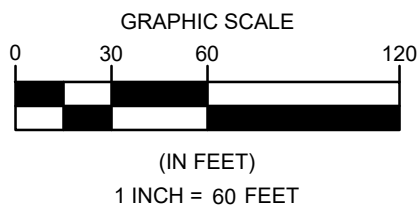
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SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL

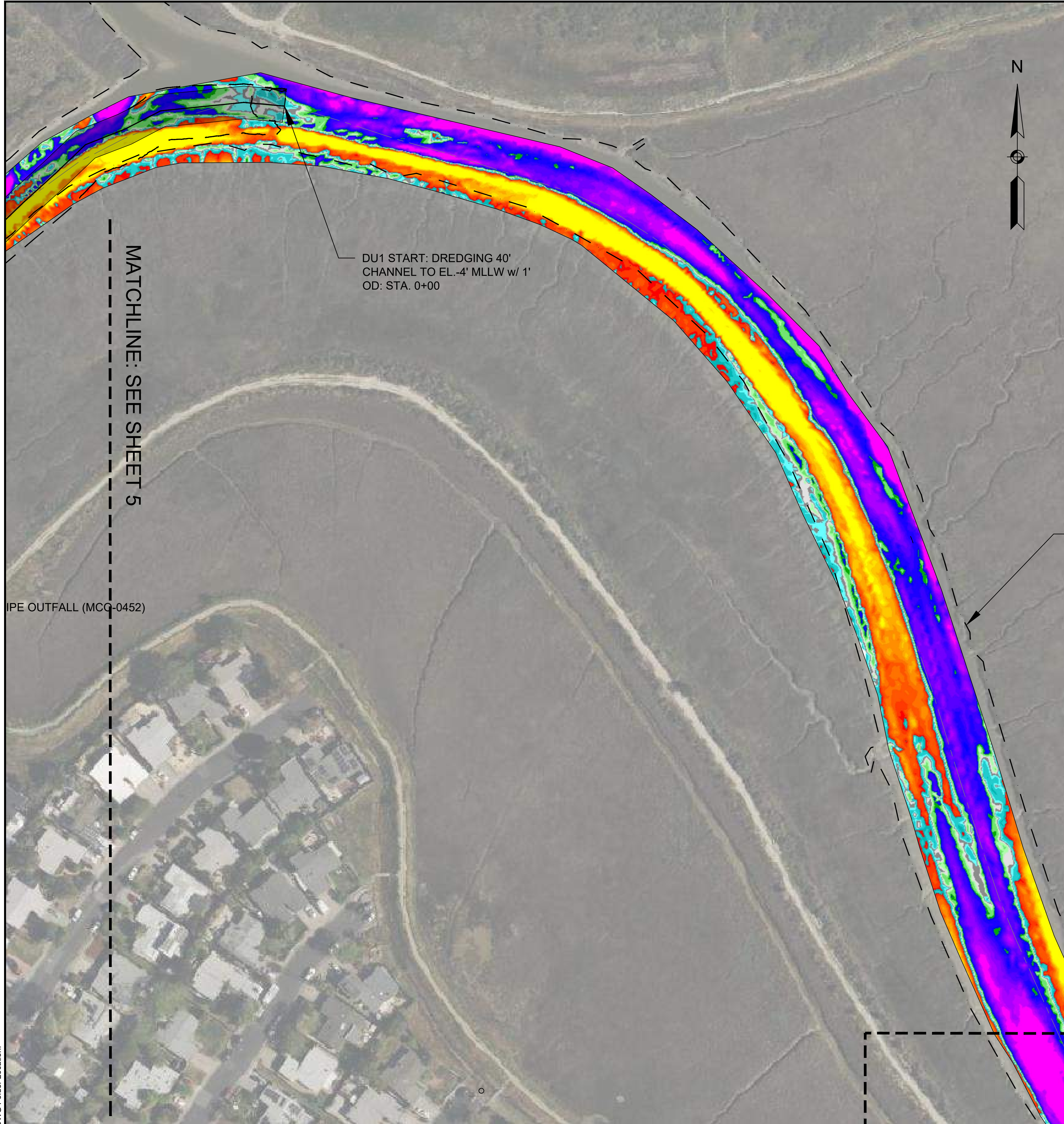
- LEGEND**
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS



**LAS GALLINAS CREEK 2023
 CONDITIONS SURVEY**
 MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
 DREDGING PROJECT**

REVISIONS		DATE OF PREPARATION	
NO	DESCRIPTION	BY	DATE
1		BMS	09/30/2023
2		EDB	02/12/2024
3		N/A	N/A
4		KEC	02/12/2024

**2023 SHOALING
 PLOT**
DRAFT
 ISSUANCE:
**NOT FOR
 CONSTRUCTION**
 PROJECT NO: 0015M219
 SHEET NUMBER
5 of 9

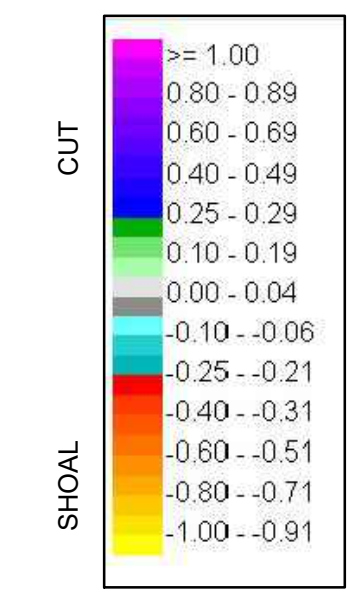


BATHYMETRIC SURVEY NOTES:

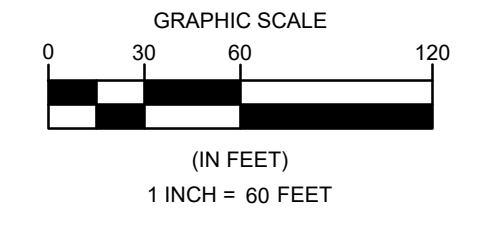
- PROJECT NAME: LAS GALLINAS CREEK
- PROJECT NUMBER: 15M219.00
- PLOT SCALE: 1" = 60'
- PROJECT DATUM: MLLW
- COORD. SYSTEM: CA ZONE III
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SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



LEGEND
 TOP OF BANK/EDGE OF VEGETATION
 EXISTING CHANNEL CENTERLINE
 PROPOSED CHANNEL CENTERLINE
 PROPOSED DREDGE TEMPLATE
 SPOT DEPTH ELEVATIONS



MATCHLINE: SEE SHEET 5

DU1 START: DREDGING 40' CHANNEL TO EL.-4' MLLW w/ 1' OD: STA. 0+00

APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)

IPE OUTFALL (MCG-0452)

MATCHLINE: SEE SHEET 7



LAS GALLINAS CREEK 2023 CONDITIONS SURVEY
 MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE DREDGING PROJECT

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

SURVEYED	BMS	09/30/2023
DRAWN	EDB	02/12/2024
DESIGNED	N/A	N/A
CHECKED	KEC	02/12/2024

SHEET TITLE:
2023 SHOALING PLOT
DRAFT

ISSUANCE:
NOT FOR CONSTRUCTION

PROJECT NO: 0015M219
 SHEET NUMBER
6 of 9

MATCHLINE: SEE SHEET 6

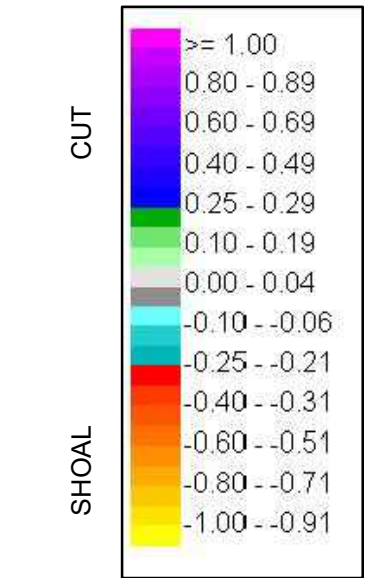


BATHYMETRIC SURVEY NOTES:

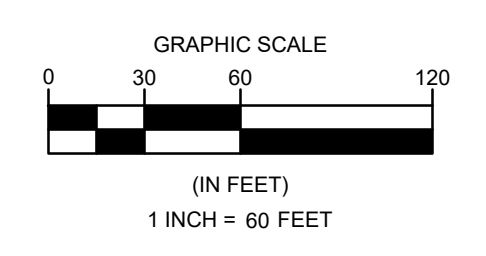
1. PROJECT NAME: LAS GALLINAS CREEK
2. PROJECT NUMBER: 15M219.00
3. PLOT SCALE: 1" = 60'
4. PROJECT DATUM: MLLW
5. COORD. SYSTEM: CA ZONE III
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SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



LEGEND

- TOP OF BANK/EDGE OF VEGETATION
- EXISTING CHANNEL CENTERLINE
- PROPOSED CHANNEL CENTERLINE
- PROPOSED DREDGE TEMPLATE
- SPOT DEPTH ELEVATIONS



APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)

MATCHLINE: SEE SHEET 8



**LAS GALLINAS CREEK 2023
CONDITIONS SURVEY**
MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
DREDGING PROJECT**

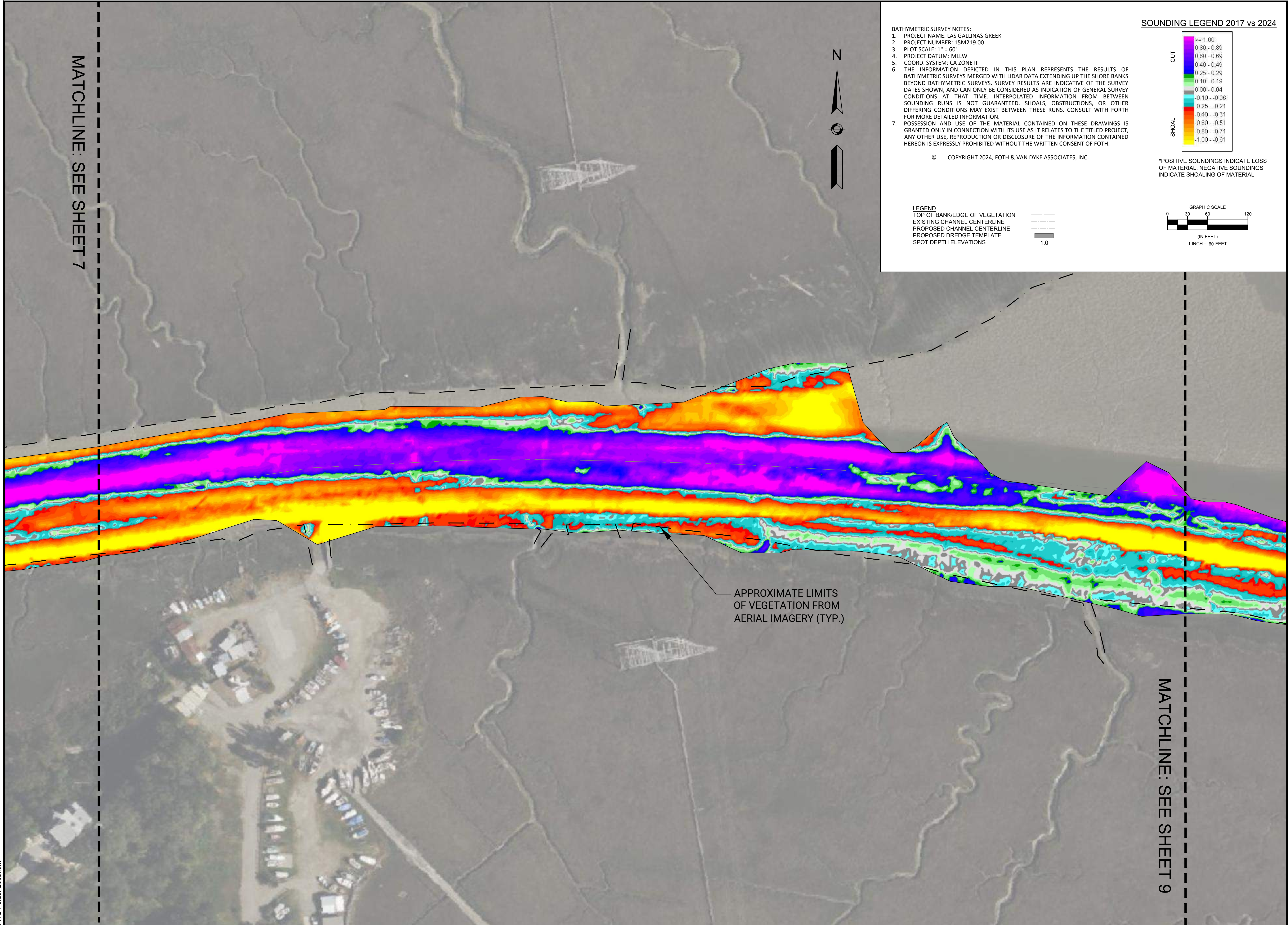
REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

**2023 SHOALING
PLOT**
DRAFT

ISSUANCE:
**NOT FOR
CONSTRUCTION**

PROJECT NO: 0015M219
SHEET NUMBER
7 of 9

MATCHLINE: SEE SHEET 7



APPROXIMATE LIMITS
 OF VEGETATION FROM
 AERIAL IMAGERY (TYP.)

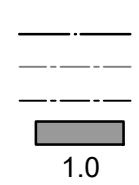
MATCHLINE: SEE SHEET 9



- BATHYMETRIC SURVEY NOTES:**
1. PROJECT NAME: LAS GALLINAS CREEK
 2. PROJECT NUMBER: 15M219.00
 3. PLOT SCALE: 1" = 60'
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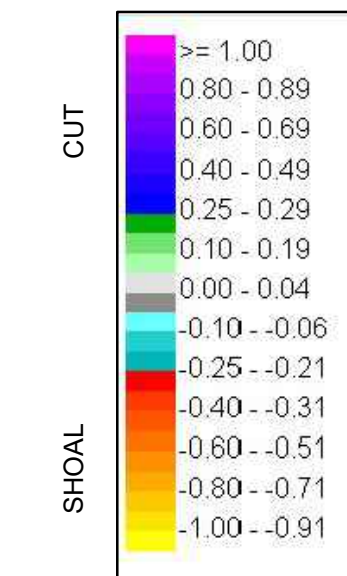
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- LEGEND**
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS

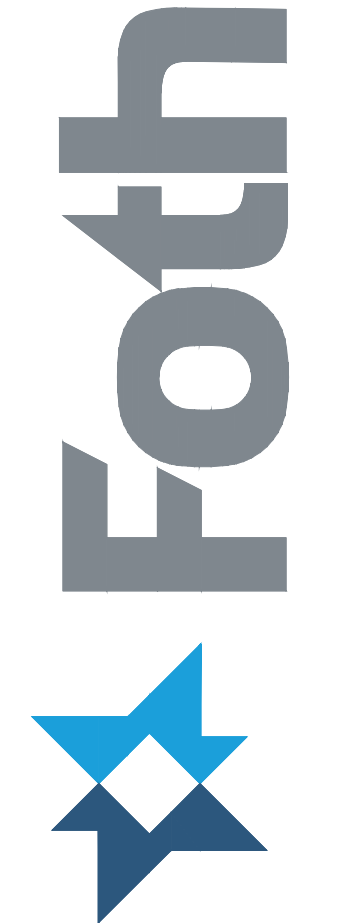
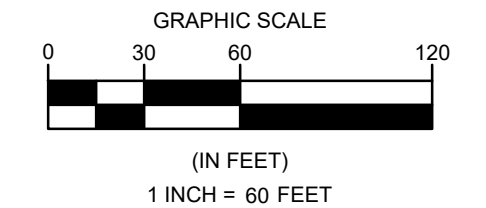


1.0

SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



**LAS GALLINAS CREEK 2023
 CONDITIONS SURVEY**
 MARIN COUNTY, CA
**LAS GALLINAS MAINTENANCE
 DREDGING PROJECT**

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

2023 SHOALING PLOT
DRAFT

ISSUANCE:
NOT FOR CONSTRUCTION

PROJECT NO: 0015M219
 SHEET NUMBER
8 of 9

MATCHLINE: SEE SHEET 8



- BATHYMETRIC SURVEY NOTES:
- PROJECT NAME: LAS GALLINAS GREEK
 - PROJECT NUMBER: 15M219.00
 - PLOT SCALE: 1" = 60'
 - PROJECT DATUM: MLLW
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 - THE INFORMATION DEPICTED IN THIS PLAN REPRESENTS THE RESULTS OF BATHYMETRIC SURVEYS MERGED WITH LIDAR DATA EXTENDING UP THE SHORE BANKS BEYOND BATHYMETRIC SURVEYS. SURVEY RESULTS ARE INDICATIVE OF THE SURVEY DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATION OF GENERAL SURVEY CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS, OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. CONSULT WITH FORTH FOR MORE DETAILED INFORMATION.
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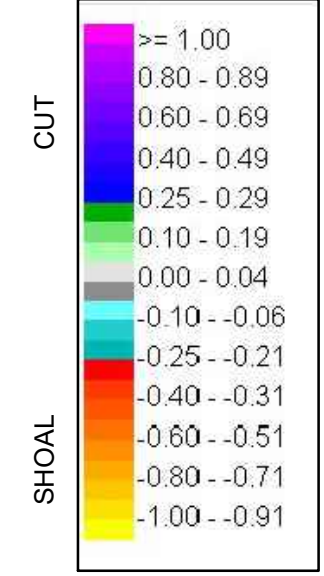
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- LEGEND
- TOP OF BANK/EDGE OF VEGETATION
 - EXISTING CHANNEL CENTERLINE
 - PROPOSED CHANNEL CENTERLINE
 - PROPOSED DREDGE TEMPLATE
 - SPOT DEPTH ELEVATIONS

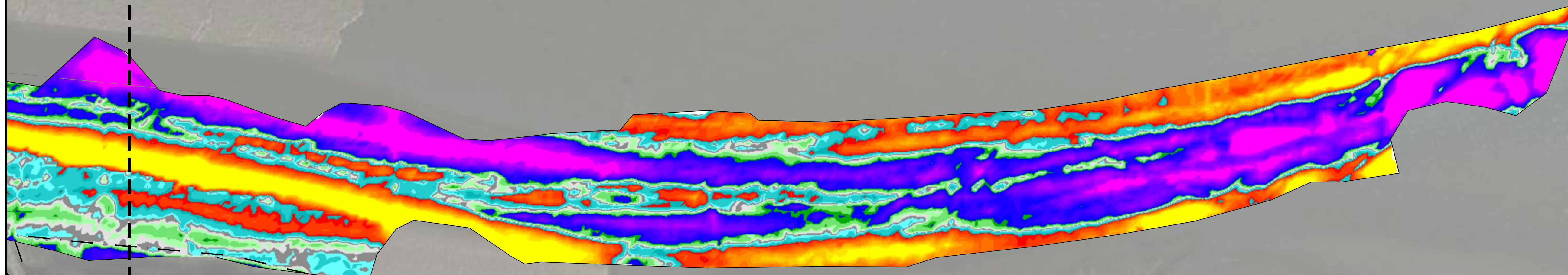
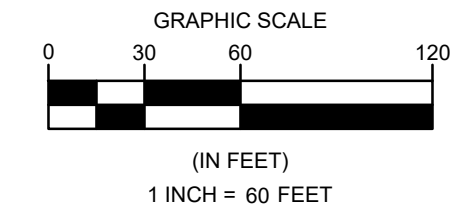


1.0

SOUNDING LEGEND 2017 vs 2024



*POSITIVE SOUNDINGS INDICATE LOSS OF MATERIAL, NEGATIVE SOUNDINGS INDICATE SHOALING OF MATERIAL



APPROXIMATE LIMITS OF VEGETATION FROM AERIAL IMAGERY (TYP.)



LAS GALLINAS CREEK 2023
CONDITIONS SURVEY
MARIN COUNTY, CA
LAS GALLINAS MAINTENANCE
DREDGING PROJECT

REVISIONS		DESCRIPTION	
NO.	BY	DATE	
1			
2			
3			
4			
5			

DATE OF PREPARATION		
BY	DATE	
SURVEYED	BMS	09/30/2023
DRAWN	EDB	02/12/2024
DESIGNED	N/A	N/A
CHECKED	KEC	02/12/2024

SHEET TITLE:

2023 SHOALING PLOT
DRAFT

ISSUANCE:
NOT FOR CONSTRUCTION

PROJECT NO: 0015M219
SHEET NUMBER