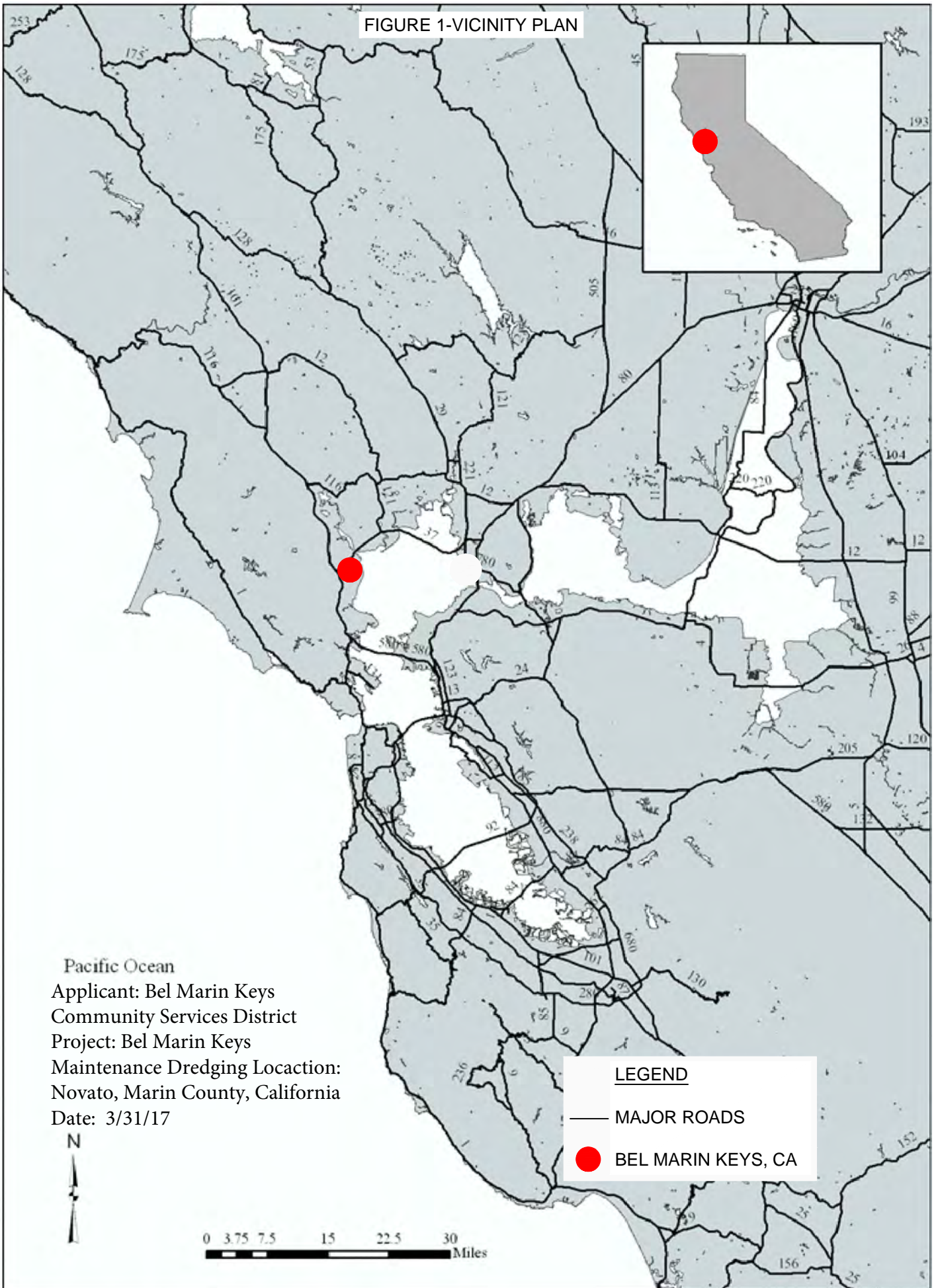
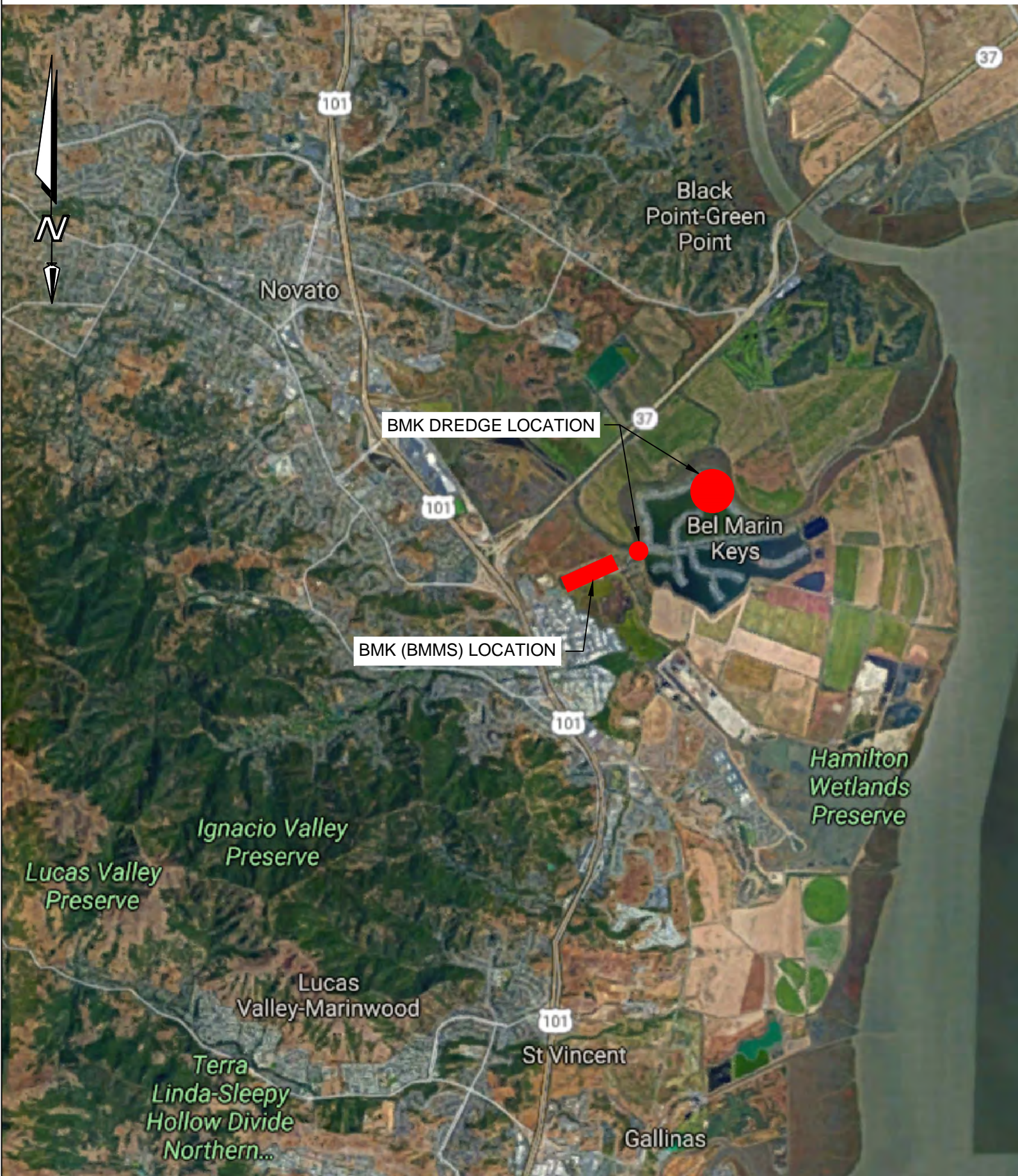


FIGURE 1-VICINITY PLAN

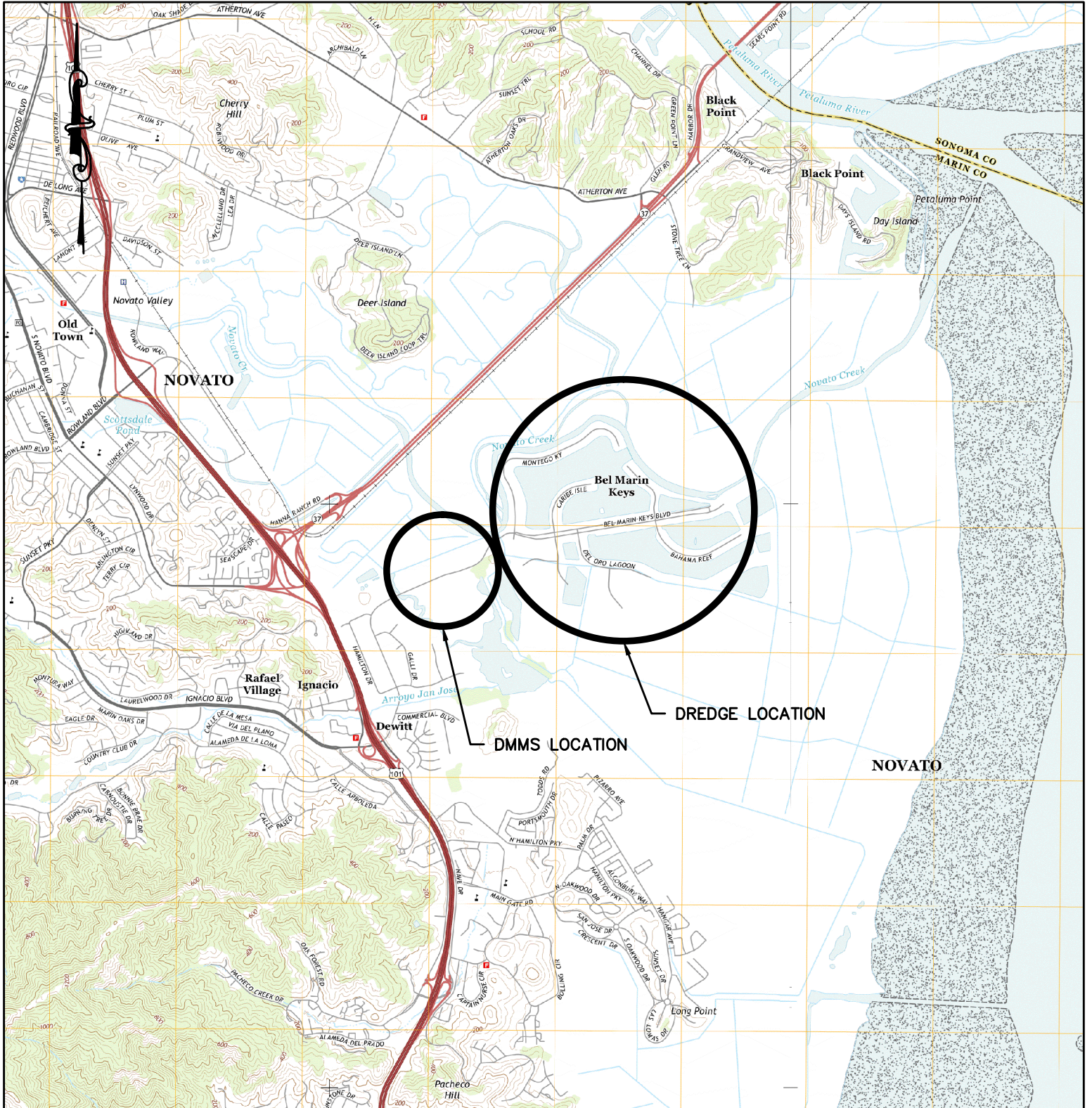




Applicant: Bel Marin Keys Community Services District  
Project: Bel Marin Keys Maintenance Dredging  
Location: Novato, Marin County, California  
Date: 3/31/17 REGIONAL LOCATION MAP



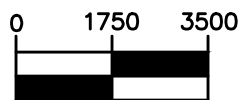




PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**LOCUS PLAN**  
SCALE: 1" = 3500'



1 inch = 3500ft.

PROJECT: MAINTENANCE DREDGING  
IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

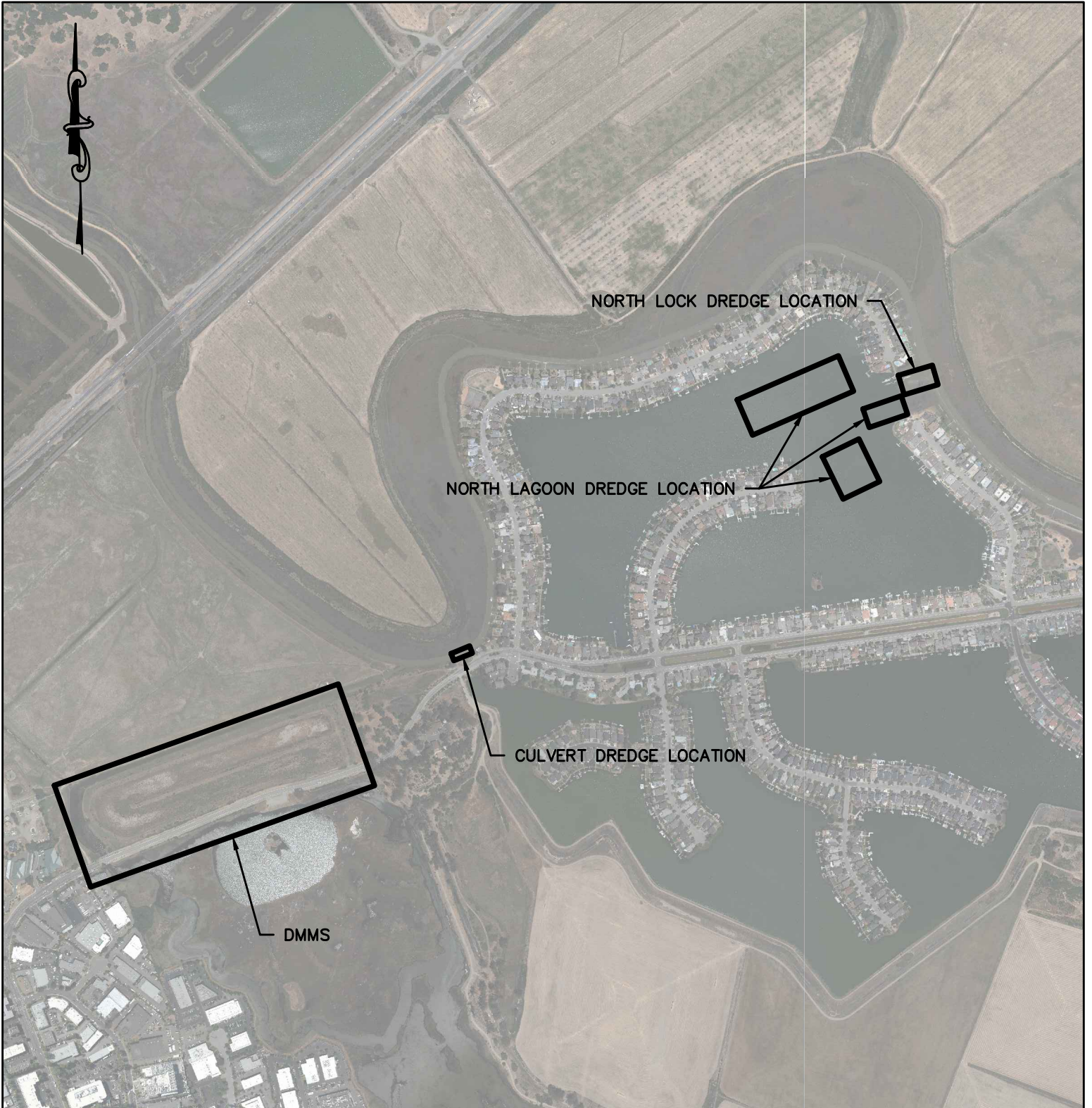
COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

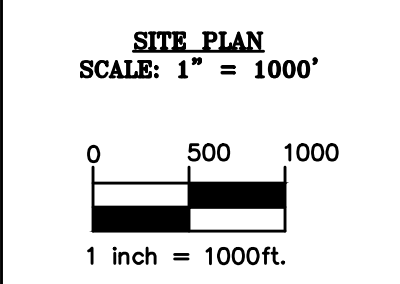
SHEET 1 OF 12





PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW



PROJECT: MAINTENANCE DREDGING

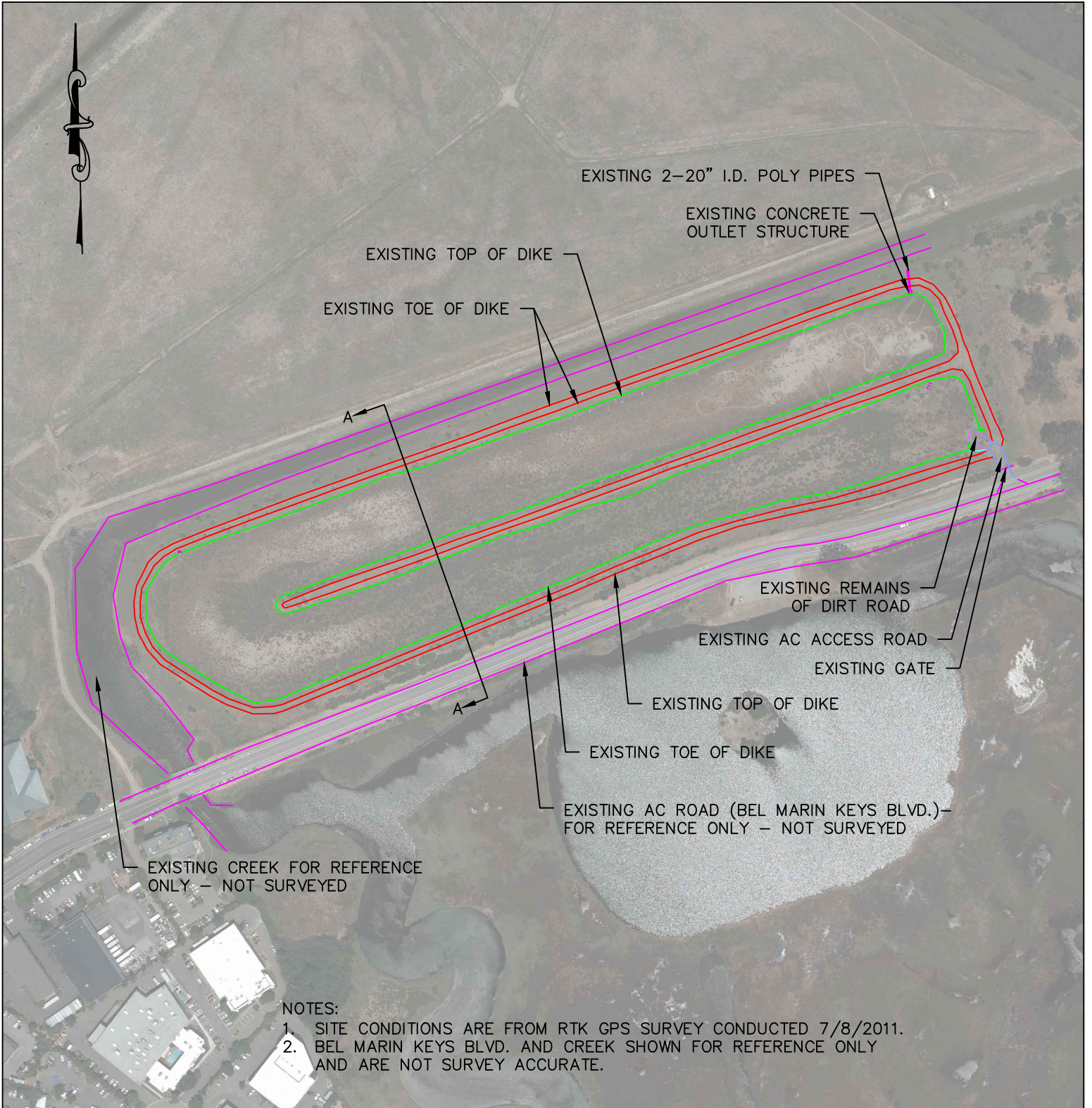
IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

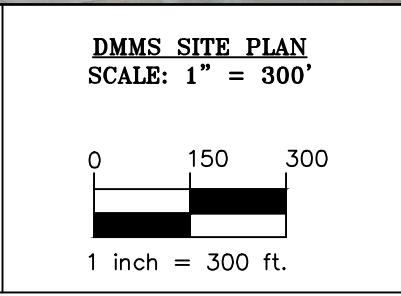
DATE: 3/31/17      SHEET 2 OF 12





PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW



PROJECT: MAINTENANCE DREDGING

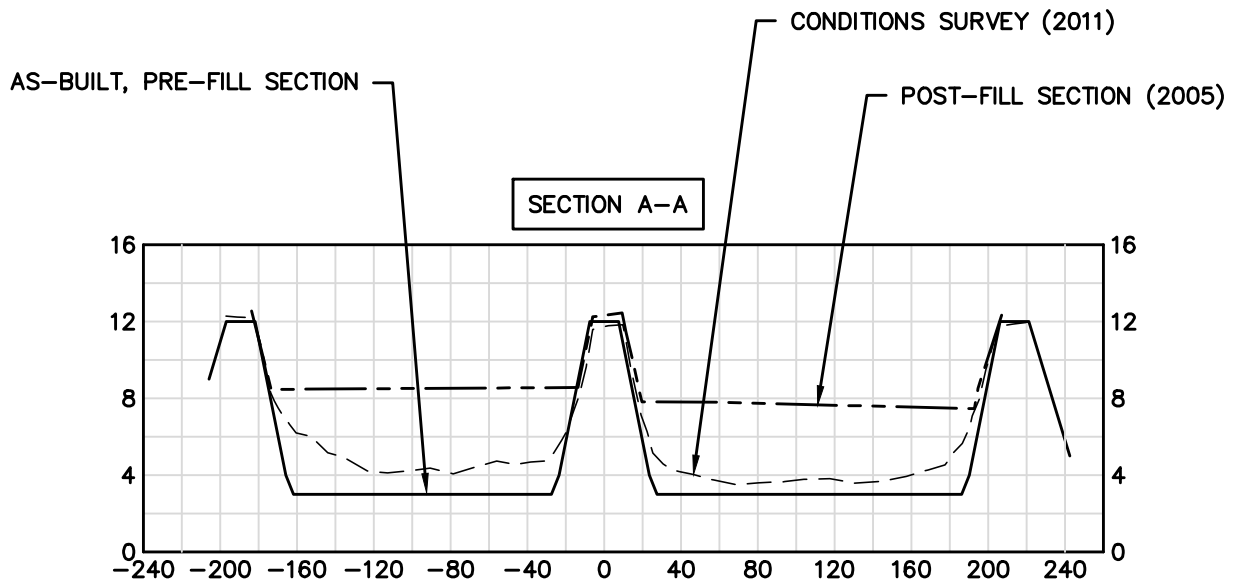
IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

SHEET 3 OF 12



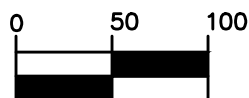
**NOTES:**

1. SITE CONDITIONS ARE FROM RTK GPS SURVEY CONDUCTED 7/8/2011.
2. BEL MARIN KEYS BLVD. AND CREEK SHOWN FOR REFERENCE ONLY AND ARE NOT SURVEY ACCURATE.

PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

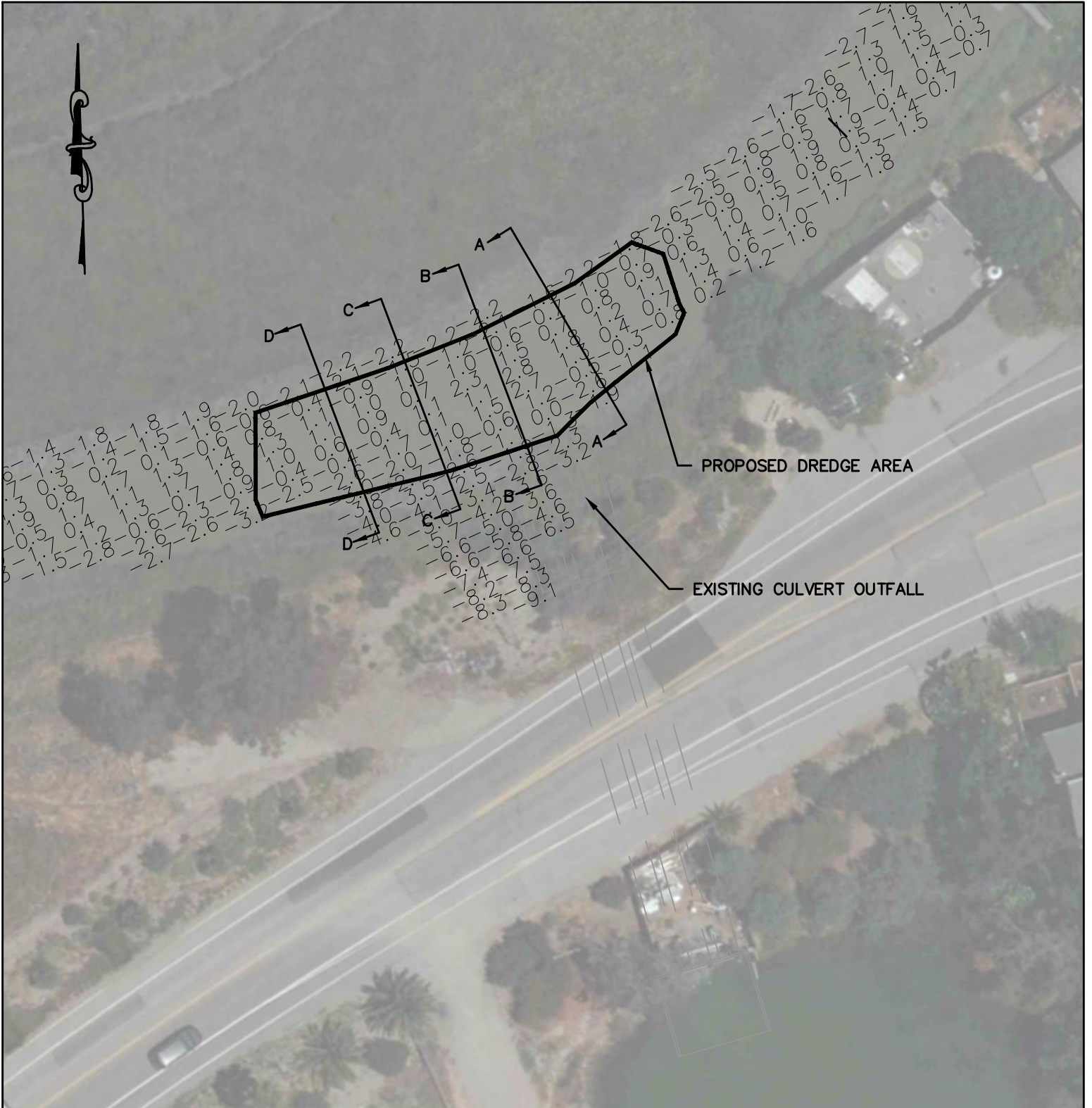
**DMMS SECTION A-A**  
**HORIZ SCALE: 1" = 100'**  
**VERT. SCALE: 1" = 10'**



1 inch = 100 ft.

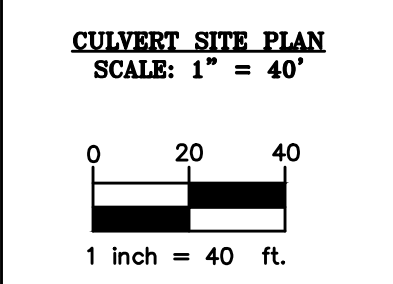
PROJECT: MAINTENANCE DREDGING  
 IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA  
 COUNTY: MARIN  
 APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT  
 DATE: 3/31/17 SHEET 4 OF 12





PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW



PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

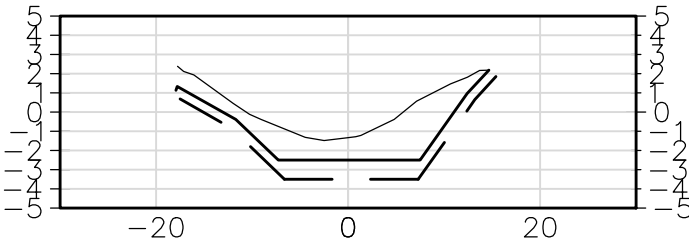
COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

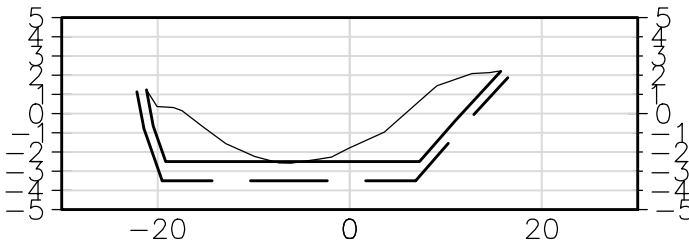
DATE: 3/31/17

SHEET 5 OF 12

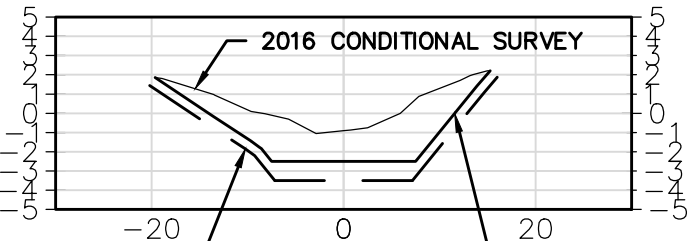
**SECTION A-A**



**SECTION B-B**



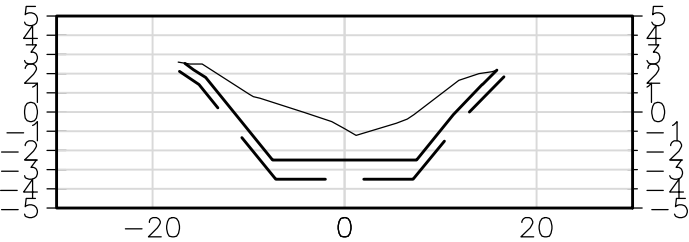
**SECTION C-C**



DREDGE DEPTH  
EL. -2.5 MLLW

3:1 SIDE SLOPES (TYP.)

**SECTION D-D**



**VOLUME TO DREDGE  
TO EL. -2.5' MLLW:**

DREDGE TO -2.5	±255 CY
DREDGE TO -3.5' (1' OD)	±165 CY
TOTAL	±420 CY

**SURVEY NOTES:**

1. PROJECT NAME: NORTH LAGOON 2016 CONDITIONAL SURVEY
2. PROJECT NUMBER: 02107.731
3. SURVEY DATE: MAY 25/26, 2016
4. SURVEYOR: SKYLAR HURLEY
5. VESSEL: WHALER
6. TRANS./FATH.: CVM 200 KHZ
7. WEATHER COND: LIGHT WIND, CALM SEAS'
8. PROJECT DATUM: DEPTHS BELOW MEAN LOWER LOW WATER
9. COOR. SYSTEM: NAD-83, CALIFORNIA ZONE 3
10. DATA REDUCTION: 6FT SORT, 20FT TRANSECTS
11. BENCHMARK: PK NAIL ON PILE AT NORTH LOCK ELEV. 10.0

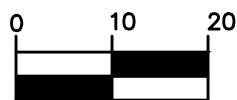
**LEGEND**

- DREDGE DEPTH @ EL. -2.5' MLLW
- 1' OVERDREDGE @ EL. -3.5' MLLW
- CONDITION SURVEY (2016)

PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**CULVERT  
SECTIONS & NOTES**  
HORIZ. SCALE: 1" = 20'  
VERT. SCALE: 1" = 5'



1 inch = 20 ft.

PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

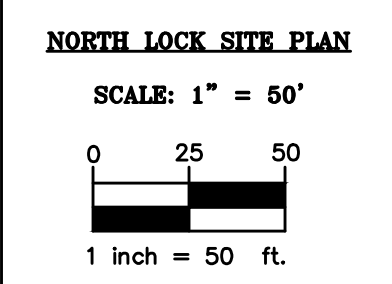
SHEET 6 OF 12





PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW



PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

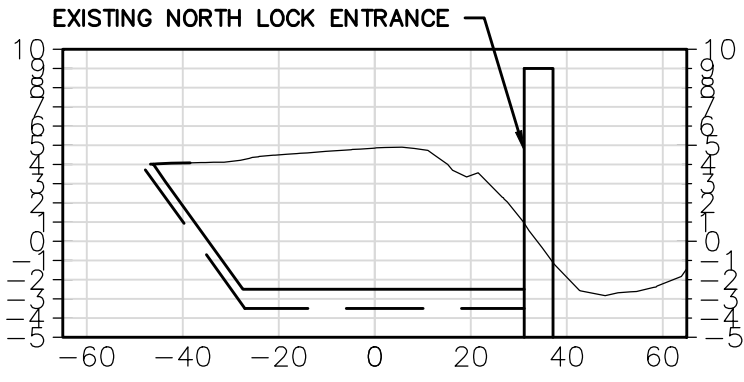
DATE: 3/31/17

SHEET 7 OF 12

VOLUME TO DREDGE TO EL. -2.5' MLLW:	
DREDGE TO -2.5	±3,100 CY
DREDGE TO -3.5' (1' OD)	±685 CY
TOTAL	±3,785 CY

- SURVEY NOTES:**
- PROJECT NAME: NORTH LAGOON 2016 CONDITIONAL SURVEY
  - PROJECT NUMBER: 02107.731
  - SURVEY DATE: MAY 25/26, 2016
  - SURVEYOR: SKYLAR HURLEY
  - VESSEL: WHALER
  - TRANS./FATH.: CVM 200 KHZ
  - WEATHER COND: LIGHT WIND, CALM SEAS'
  - PROJECT DATUM: DEPTHS BELOW MEAN LOWER LOW WATER
  - COOR. SYSTEM: NAD-83, CALIFORNIA ZONE 3
  - DATA REDUCTION: 6FT SORT, 20FT TRANSECTS
  - BENCHMARK: PK NAIL ON PILE AT NORTH LOCK ELEV. 10.0

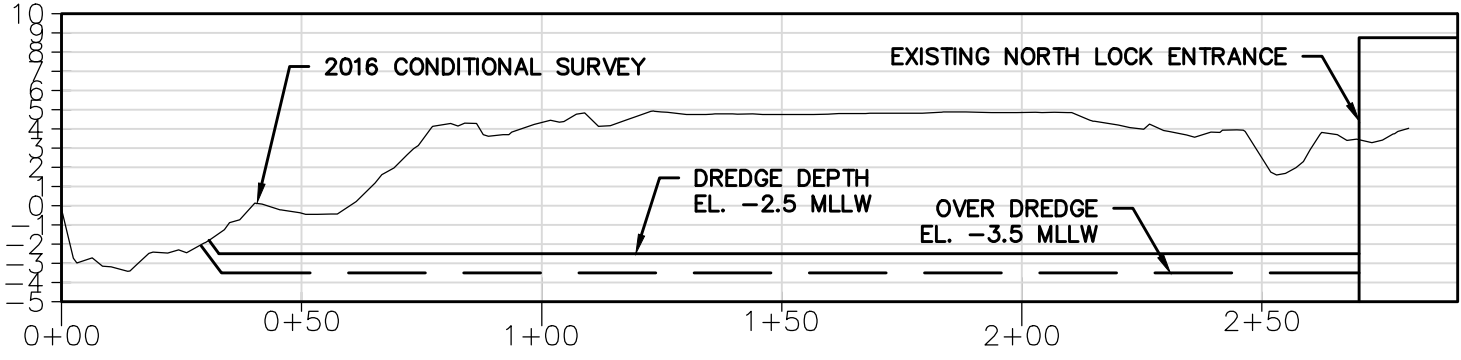
**SECTION F-F**



**LEGEND**

- DREDGE DEPTH @ EL. -2.5' MLLW
- 1' OVERDREDGE @ EL. -3.5' MLLW
- CONDITION SURVEY (2016)

**SECTION E-E**



PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**NORTH LOCK SECTIONS & NOTES**

HORIZ. SCALE: 1" = 40'

VERT. SCALE: 1" = 10'

1 inch = 40 ft.

PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

SHEET 8 OF 12



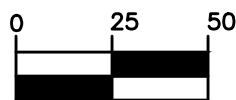


PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**NORTH LOCK SITE PLAN**

SCALE: 1" = 50'



PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

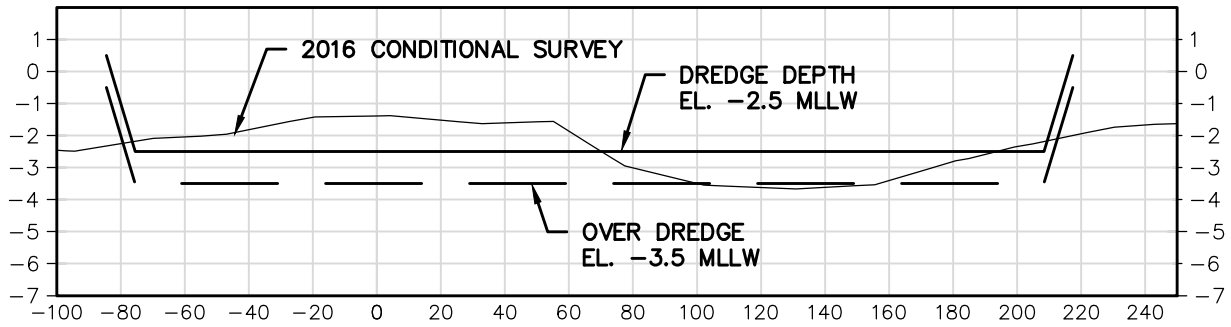
COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

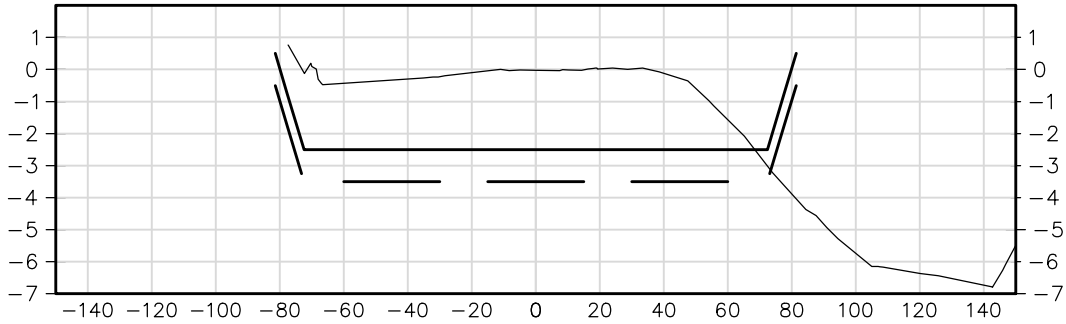
DATE: 3/31/17

SHEET 9 OF 12

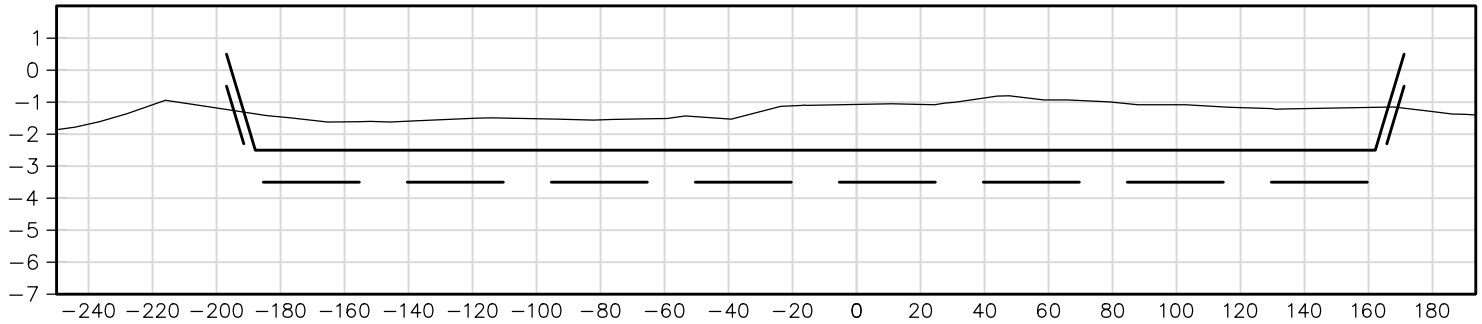
**SUMPA: SECTION G-G**



**SUMP B: SECTION H-H**



**SUMP C: SECTION I-I**



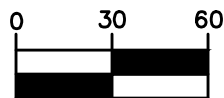
PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**NORTH LAGOON SECTIONS**

**HORIZ. SCALE: 1" = 60'**

**VERT. SCALE: 1" = 6'**



1 inch = 60 ft.

PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

SHEET 10 OF 12



VOLUME TO DREDGE TO EL. -2.5' MLLW:			
	SUMP A	SUMP B	SUMP C
DREDGE TO -2.5	±4,747 CY	±2,723 CY	±5,226 CY
DREDGE TO -3.5' (1' OD)	±2,046 CY	±1,701 CY	±4,126 CY
TOTAL	±6,793 CY	±4,424 CY	±9,352 CY

**SURVEY NOTES:**

1. PROJECT NAME: NORTH LAGOON 2016 CONDITIONAL SURVEY
2. PROJECT NUMBER: 02107.731
3. SURVEY DATE: MAY 25/26, 2016
4. SURVEYOR: SKYLAR HURLEY
5. VESSEL: WHALER
6. TRANS./FATH.: CVM 200 KHZ
7. WEATHER COND: LIGHT WIND, CALM SEAS'
8. PROJECT DATUM: DEPTHS BELOW MEAN LOWER LOW WATER
9. COOR. SYSTEM: NAD-83, CALIFORNIA ZONE 3
10. DATA REDUCTION: 6FT SORT, 20FT TRANSECTS
11. BENCHMARK: PK NAIL ON PILE AT NORTH LOCK ELEV. 10.0

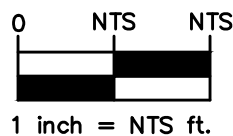
**LEGEND**

- DREDGE DEPTH @ EL. -2.5' MLLW
- 1' OVERDREDGE @ EL. -3.5' MLLW
- CONDITION SURVEY (2016)

PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**NORTH LAGOON NOTES**



PROJECT: MAINTENANCE DREDGING  
 IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA  
 COUNTY: MARIN  
 APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT  
 DATE: 3/31/17      SHEET 11 OF 12



PURPOSE: PROVIDE NAVIGABLE DEPTHS AND FLOOD CONTROL.

DATUM: MLLW

**DISPOSAL SITE**

PROJECT: MAINTENANCE DREDGING

IN: NOVATO CREEK/NORTH LAGOON, NOVATO, CA

COUNTY: MARIN

APPLICATION BY: BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

DATE: 3/31/17

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