

NOVATO CREEK

2018 CONDITION HYDROGRAPHIC SURVEY

BEL MARIN KEYS COMMUNITY SERVICES DISTRICT

#4 MONTEGO KEY

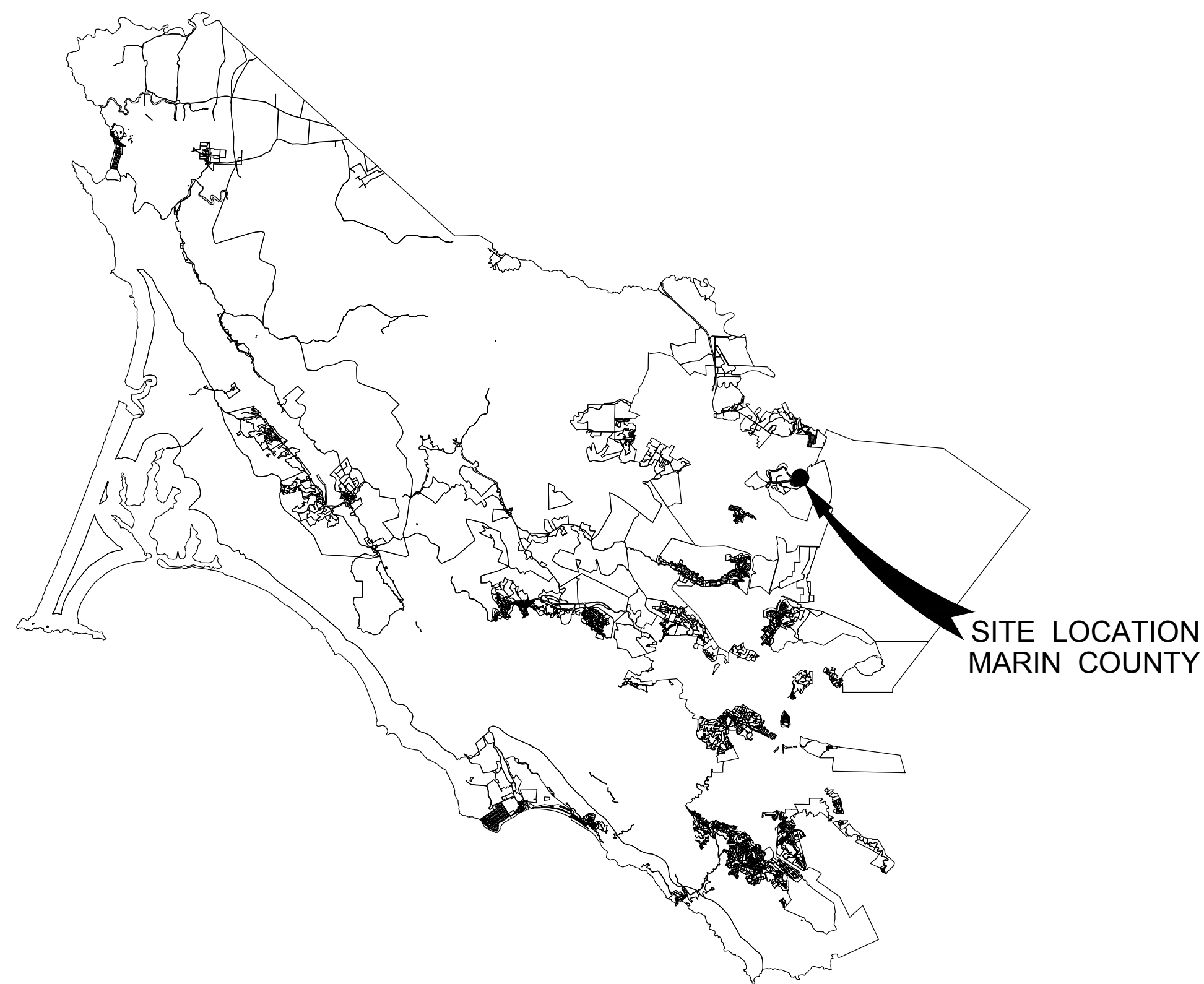
NOVATO, CA 94949

MAY, 2019

Prepared By



PROJECT NUMBER: 18M113



COUNTY LOCATION MAP
NOT TO SCALE



SITE LOCATION MAP
T. N. , R. E.

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I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

PRINTED OR TYPED NAME _____ DATE _____

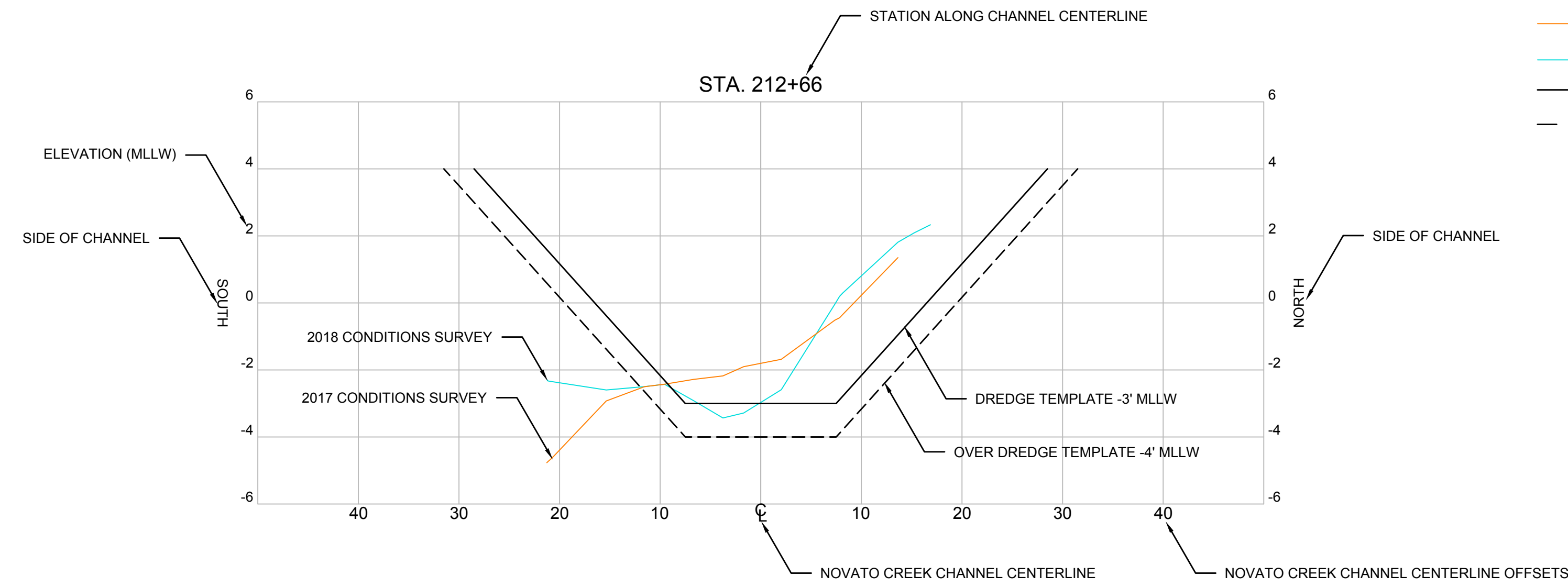
MY LICENSE RENEWAL DATE IS DECEMBER 31, _____

PAGES OR SHEETS COVERED BY THIS SEAL: _____

NOTES:

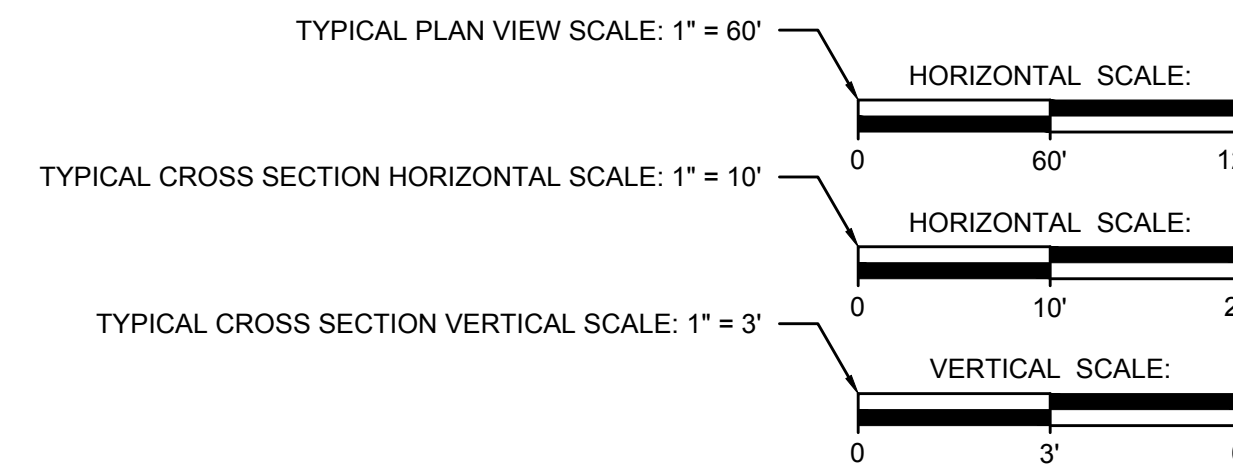
1. SINGLEBEAM SWEEP BATHYMETRIC DATA WERE COLLECTED BY CLE ENGINEERING ON OCTOBER 20, 23 AND 24TH, 2017. RESULTS OF HYDROGRAPHY TAKEN FOR THE 2018 SURVEY FROM XXXXXX.
2. CHANNEL LIMITS AND CONTROL REFER TO LAMBERT GRID SYSTEM FOR CALIFORNIA. CHANNEL COORDINATES REFER TO NAD-83.
3. SHORE LINE TOPOGRAPHY IN SOME AREAS WAS TAKEN FROM AERIAL SURVEY IN 2002 AND MAY VARY IN SUBSEQUENT YEARS, 2005 CONDITIONS WERE NOT VERIFIED.
4. BENCHMARK REFERS TO VERTICAL DATUM PROVIDED BY OTHERS. CONTRACTOR IS ADVISED THAT WATER REFERENCE ELEVATIONS VARY FROM ONE END OF NOVATO CREEK TO THE OTHER BY AS MUCH AS TWO FEET AT PEAK TIDAL FLOWS.
5. THE INFORMATION SHOWN ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED, AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS PRESENT AT THAT TIME. INTERPOLATED INFORMATION BETWEEN SOUNDINGS MAY NOT REPRESENT ACTUAL CONDITIONS, OBSTRUCTIONS OR ROCK OUTCROPPINGS MAY EXIST THAT ARE NOT SHOWN. THIS PLAN SHOULD NOT BE USED FOR NAVIGATION.
6. DEPTHS SHOWN HEREON REPRESENT BOTTOM SOUNDINGS USING A 208 KHZ TRANSDUCER. THE ELEVATIONS SHOWN INDICATE BOTTOM CONDITIONS ONLY, AND NOT NECESSARILY INDICATE THAT THE BOTTOM MATERIALS ARE CAPABLE OF SUSTAINING LOADS OR SUPPORTING SIDE SLOPES.
7. SOUNDINGS ARE REFERENCED TO FT. MLLW BASED ON THE SURVEY PK NAIL LOCATED ON THE WLY SIDE OF THE PILE WITHIN THE NORTH LOCK.
8. THE SINGLEBEAM BATHYMETRIC SONAR SYSTEM WAS COMPRISED OF THREE TELEDYNE CVM SHALLOW WATER SINGLEBEAM ECHO SOUNDERS (200 KHZ, 3° BEAM ANGLE), LEICA SYSTEM 1200 RTK FOR POSITIONING (H AND V) AND HYPACK 2017 HYDROGRAPHIC SURVEY ACQUISITION SOFTWARE.
9. A CODA F180 INERTIAL MOTION REFERENCE UNIT SUPPLIED MOTION AND GYRO DATA TO THE SURVEY COMPUTER.
10. SURVEY VESSEL, EQUIPMENT AND PROTOCOLS CONFORM TO CLASS 1 SPECIFICATIONS AS OUTLINED IN THE U.S. ARMY CORPS OF ENGINEERS SURVEY MANUAL (EM 1110-2-1003, JANUARY 2002).

TYPICAL CHANNEL CROSS SECTION

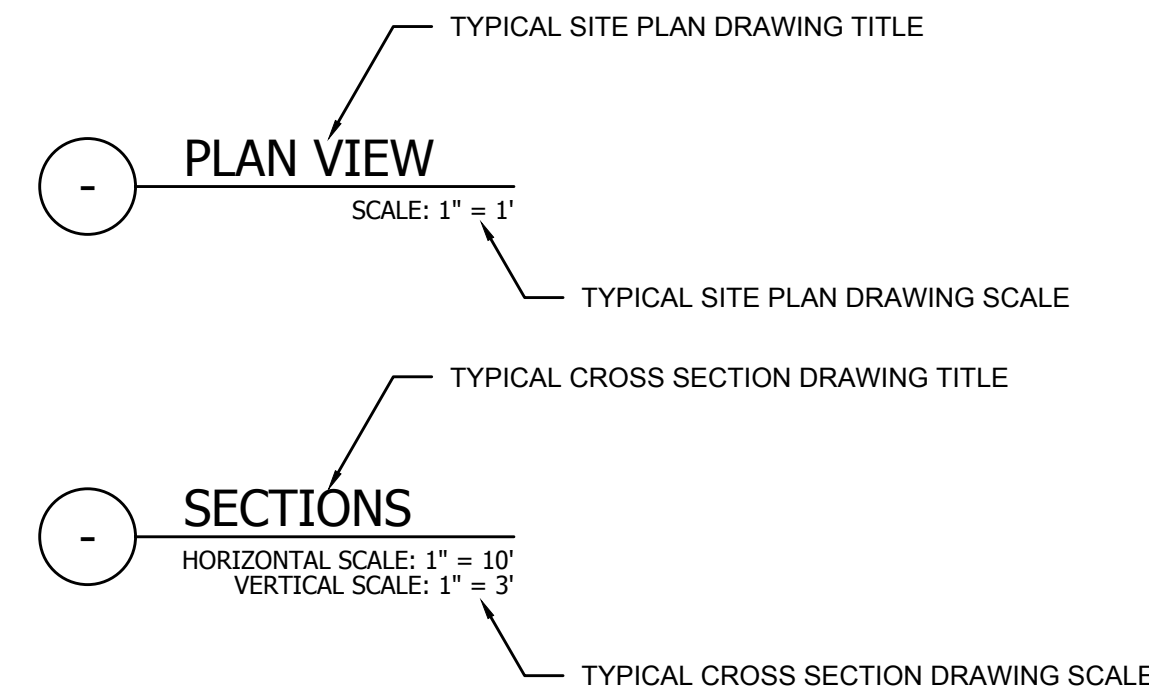


LEGEND		BATHYMETRY INDEX SHEET (FT) (MLLW)				
Symbol	Description	ID	MIN. EL.	MAX. EL.	COLOR	
Orange line	2017 CONDITION SURVEY	1	<= -10.500'	218	[Color scale from purple to yellow]	
Light blue line	2018 CONDITION SURVEY	2	-10.500'	-10.000'		228
Black line	DREDGE TEMPLATE -3' MLLW	3	-9.500'	-9.000'		248
Dashed black line	OVER DREDGE TEMPLATE -4' MLLW	4	-9.000'	-8.500'		246
		5	-8.500'	-8.000'		244
		6	-8.000'	-7.500'		242
		7	-7.500'	-7.000'		240
		8	-7.000'	-6.500'		230
		9	-6.500'	-6.000'		220
		10	-6.000'	-5.500'		210
		11	-5.500'	-5.000'		200
		12	-5.000'	-4.500'		190
		13	-4.500'	-4.000'		180
		14	-4.000'	-3.500'		170
		15	-3.500'	-3.000'		160
		16	-3.000'	-2.500'		150
		17	-2.500'	-2.000'		140
		18	-2.000'	-1.500'		130
		19	-1.500'	-1.000'		120
		20	-1.000'	-0.500'		110
		21	-0.500'	0.000'		100
		22	0.000'	0.500'		90
		23	0.500'	1.000'		80
		24	1.000'	1.500'		70
		25	1.500'	2.000'		60
		26	2.000'	2.500'		62
		27	2.500'	3.000'		64
		28	3.000'	3.500'		66
		29	>= 3.500'			68
		30				

DRAWING SCALES



DRAWING TITLES



NO.	BY	DATE
△	A	A
△	A	A
△	A	A
△	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY:

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
#4 MONTEGO KEY
NOVATO, CA 94949

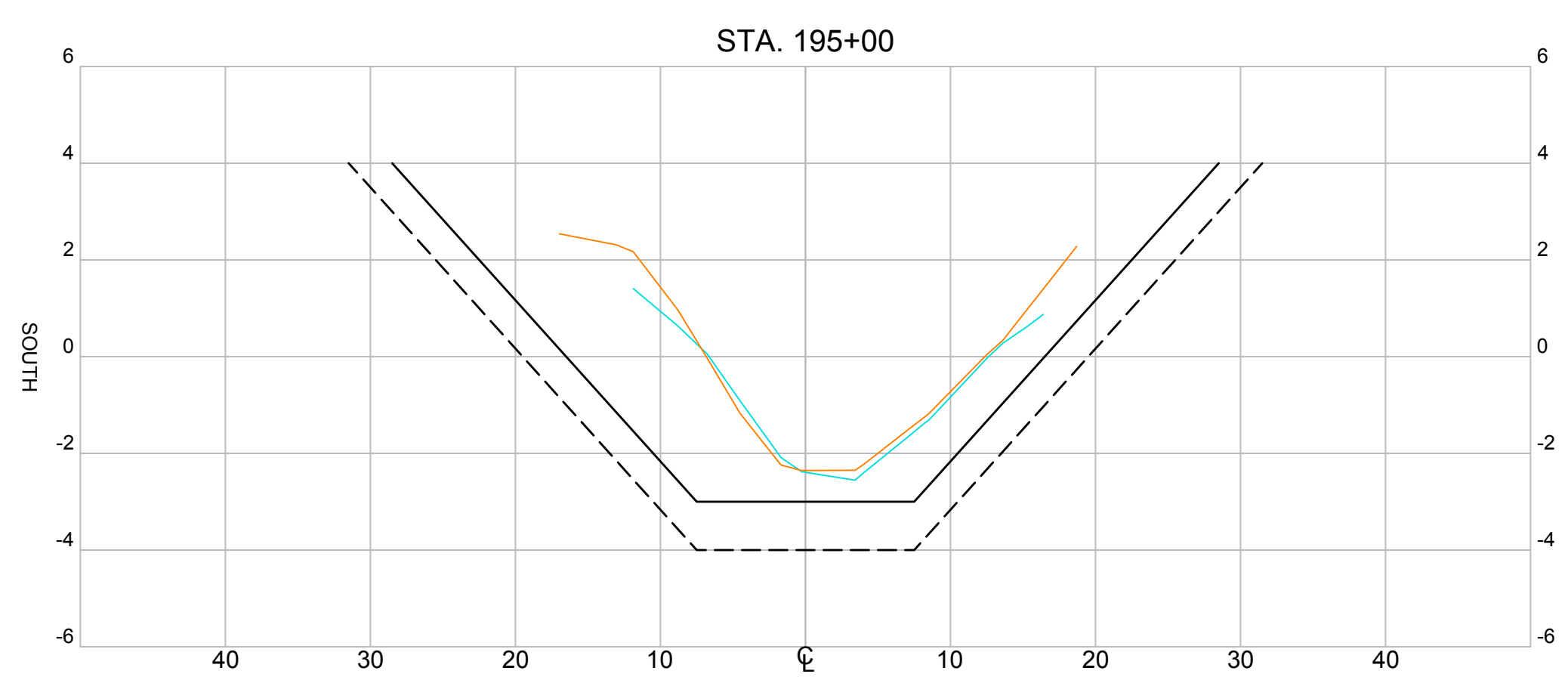
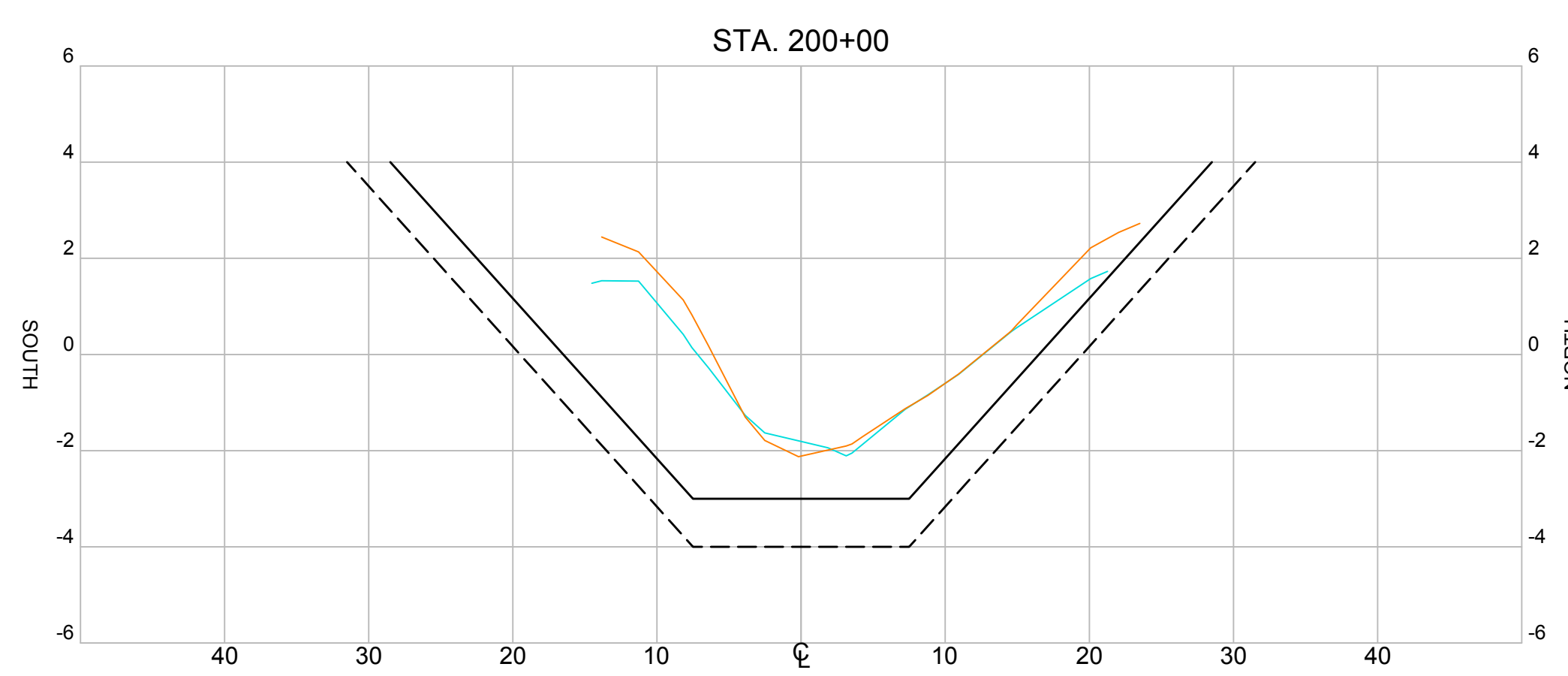
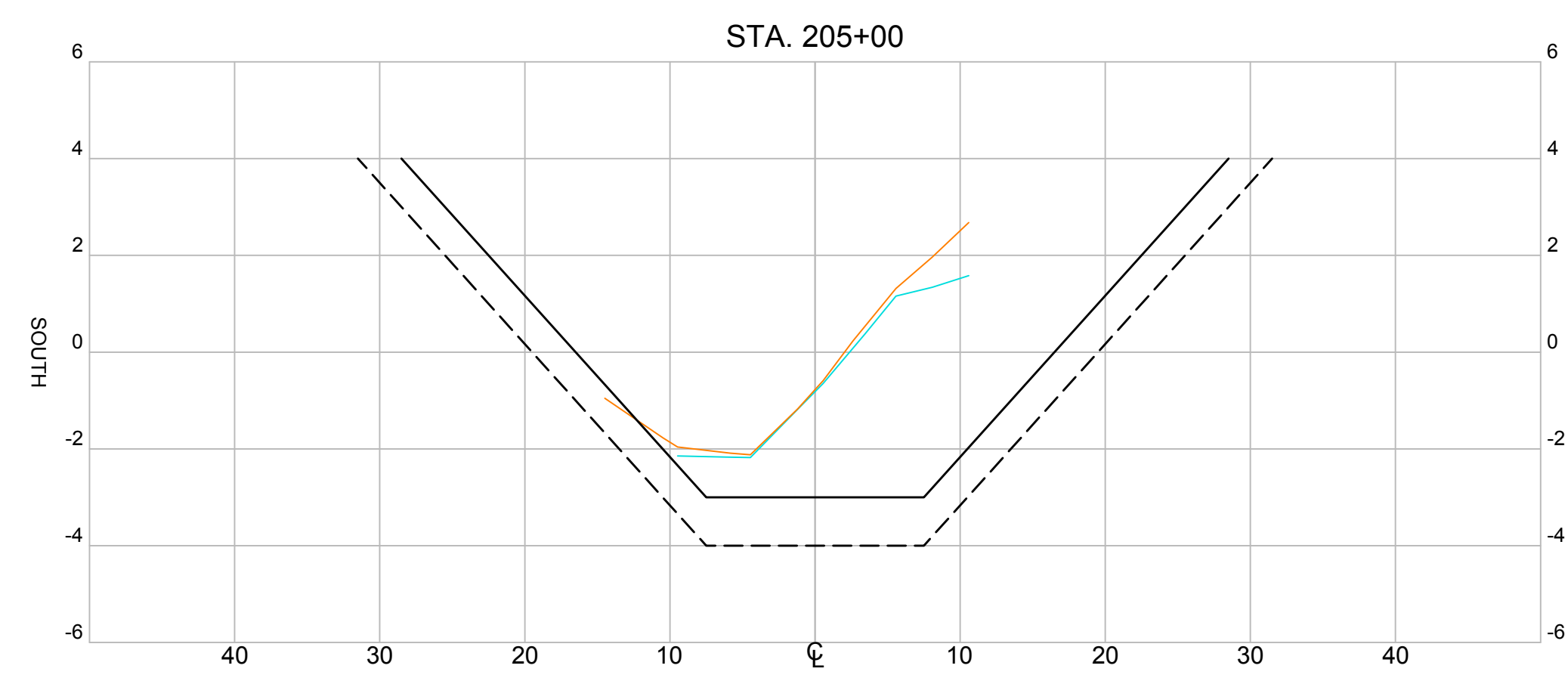
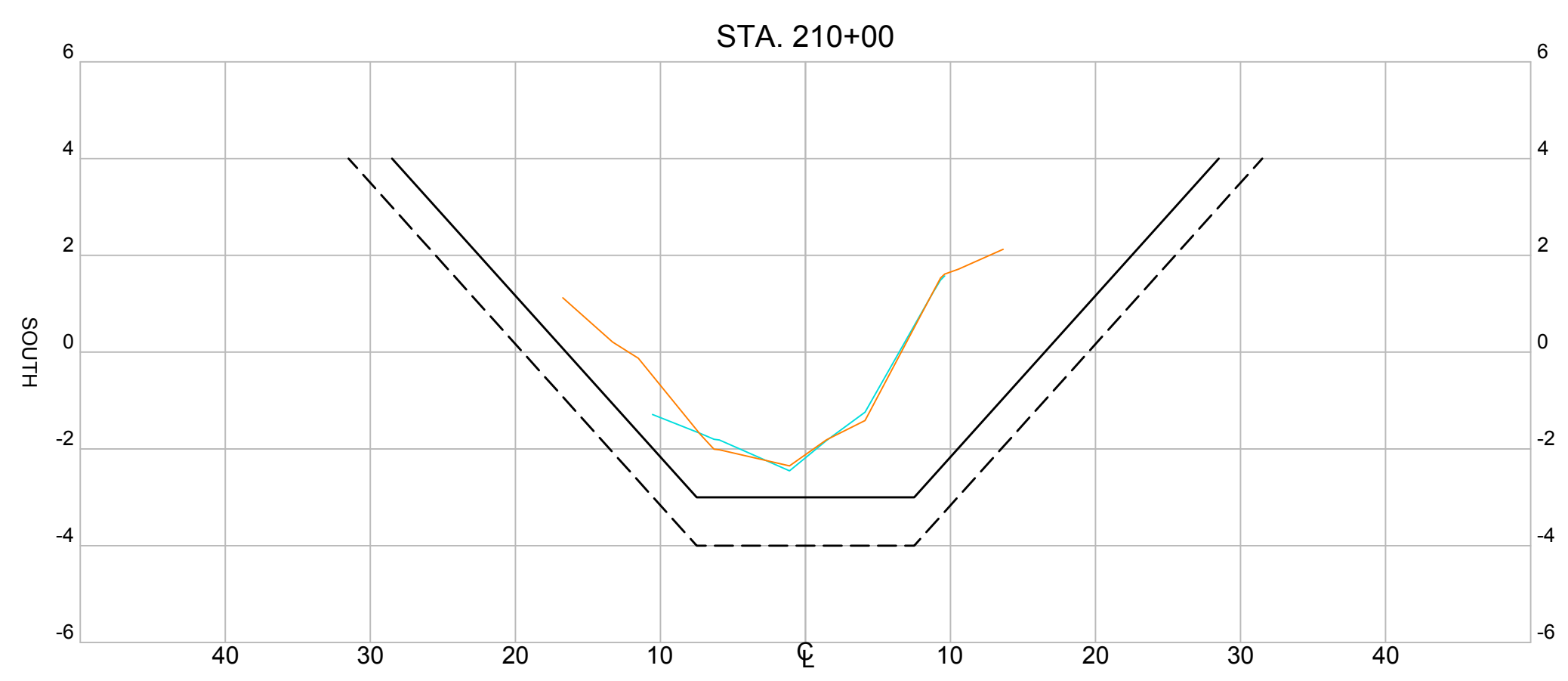
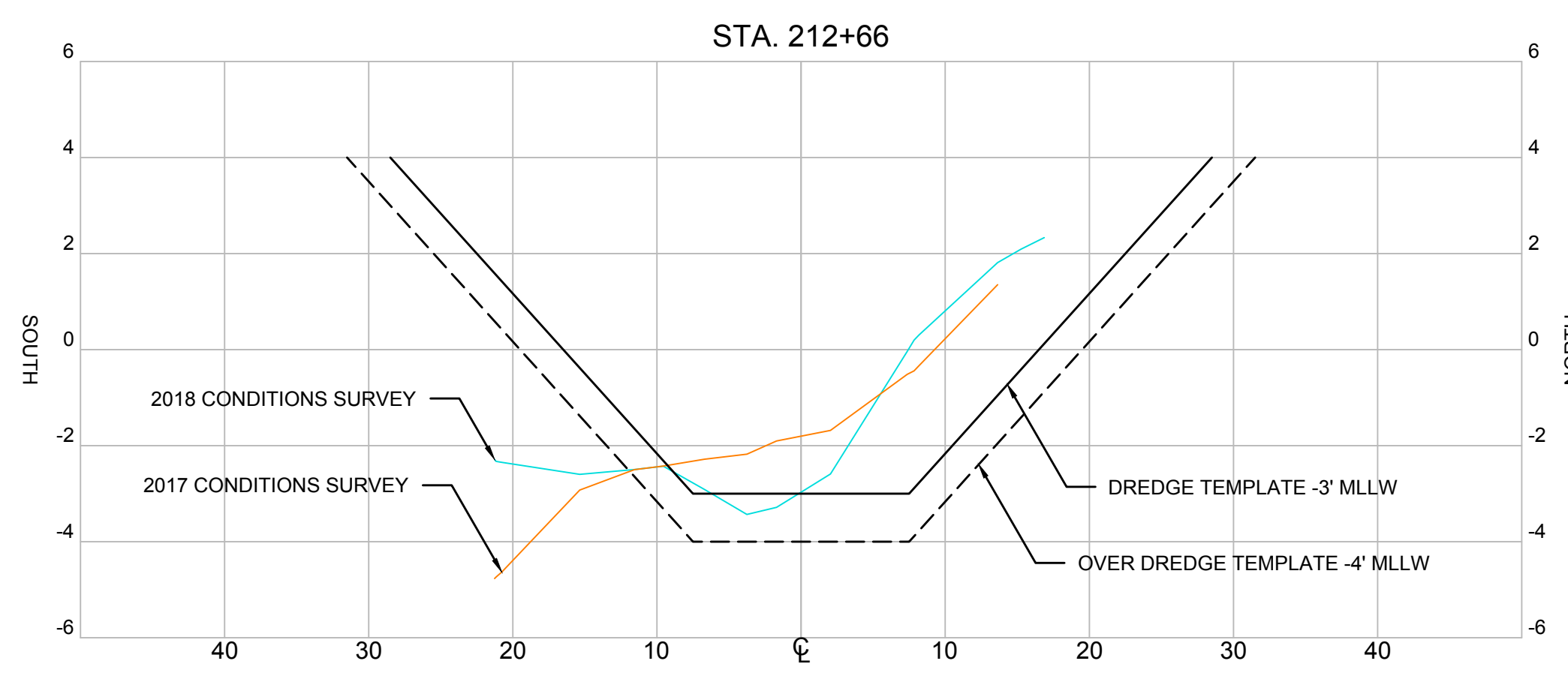
	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
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GENERAL NOTES & LEGENDS	
PROJECT ID:	18M113
G-002	
SHEET 2 OF 13	



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

NO.	BY	DATE
△	A	A A
△	A	A A
△	A	A A
△	A	A A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY:
 RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.
 BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

MARIN CALIFORNIA

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		

Foth
 Foth Infrastructure & Environment, LLC
 384 Bel Marin Keys Boulevard, Suite 140
 Novato, CA 94949
 Phone: 415.884.8011

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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 213+00 TO 194+00

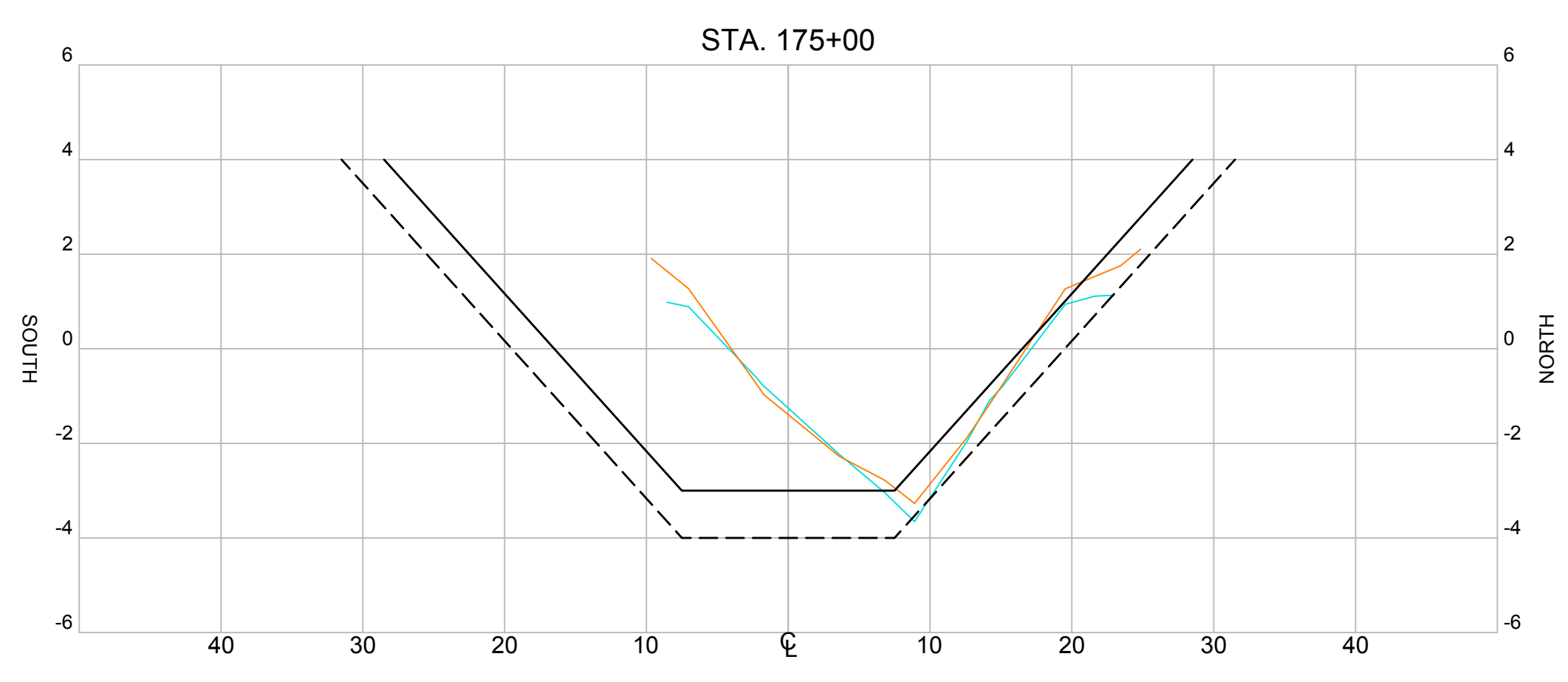
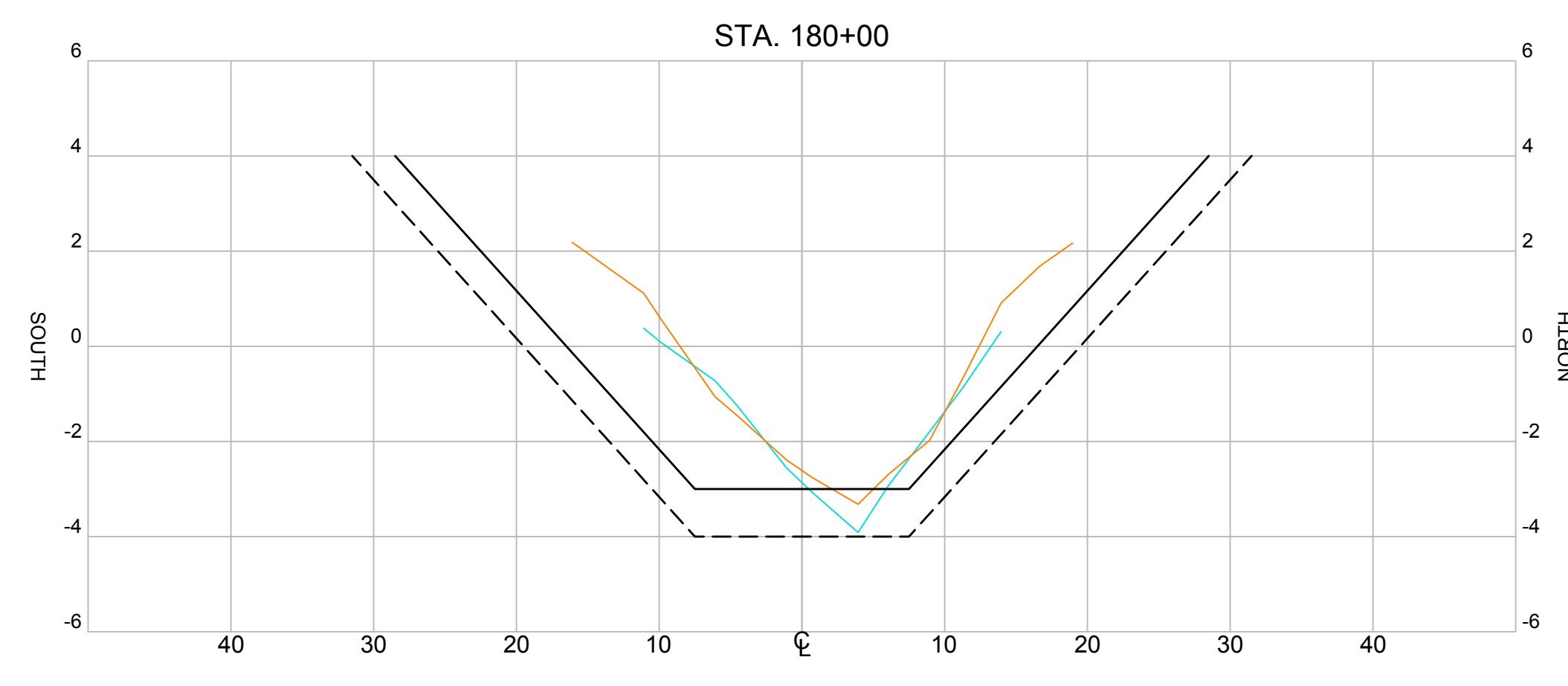
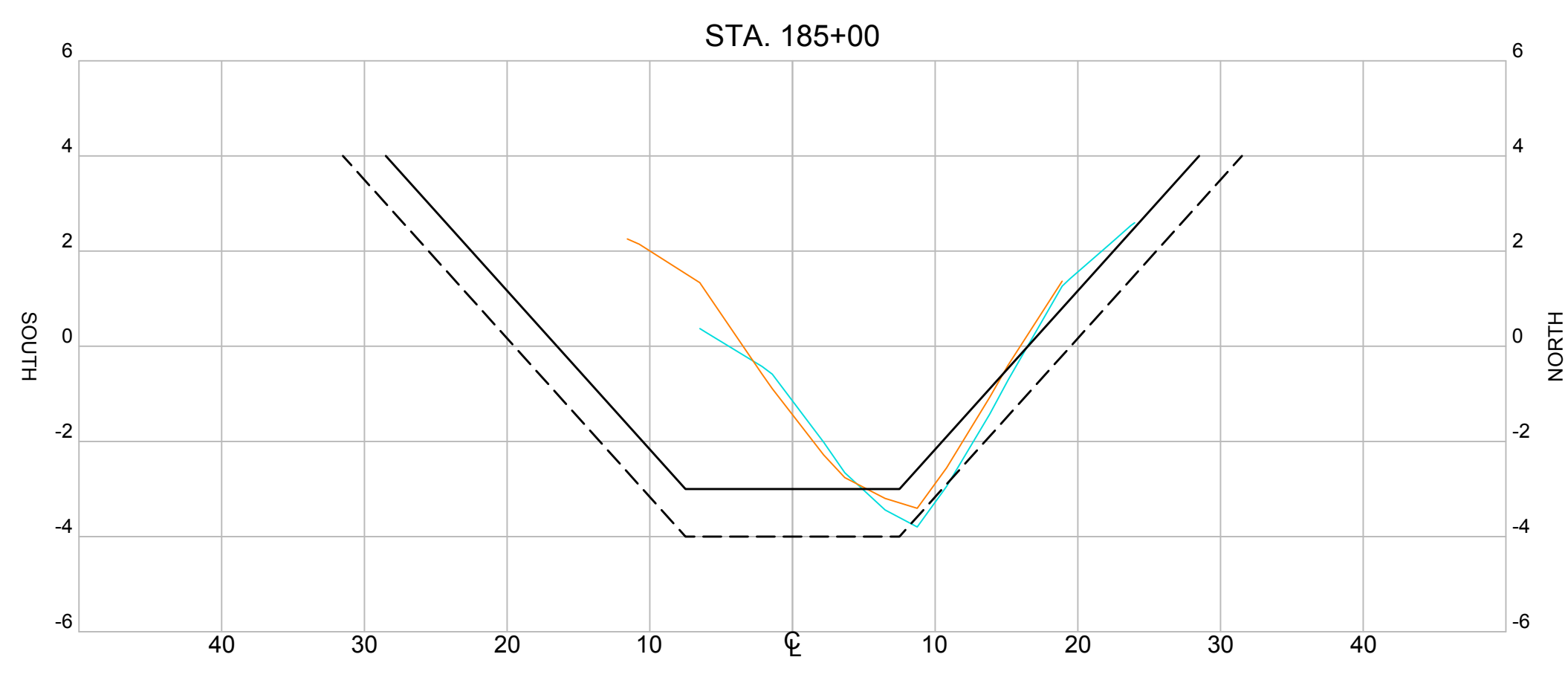
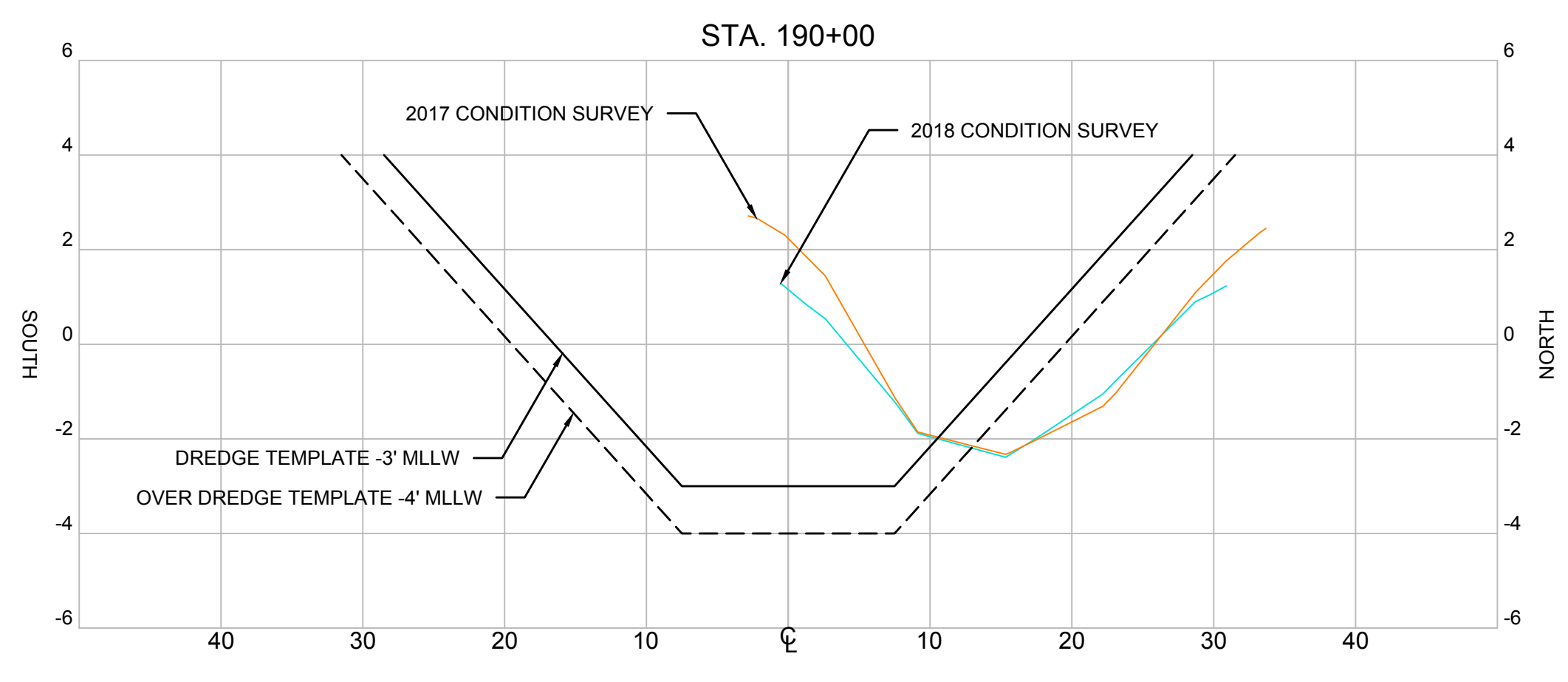
PROJECT ID: 18M113

SV-101

SHEET 3 OF 13



PLAN VIEW
SCALE: 1" = 60'
HORIZONTAL SCALE: 0 60' 120'



SECTIONS
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 0 10' 20'
VERTICAL SCALE: 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

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 #4 MONTEGO KEY
 NOVATO, CA 94949

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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 194+00 TO 173+00

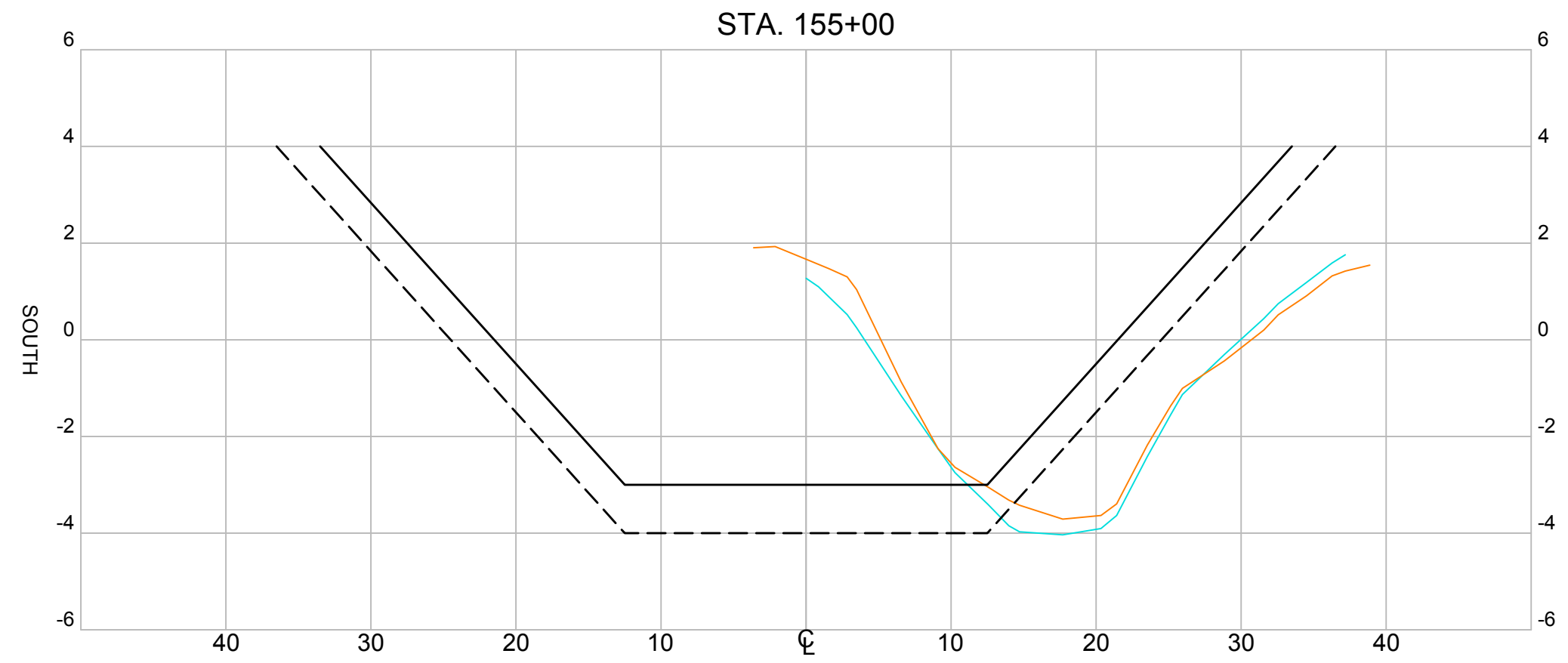
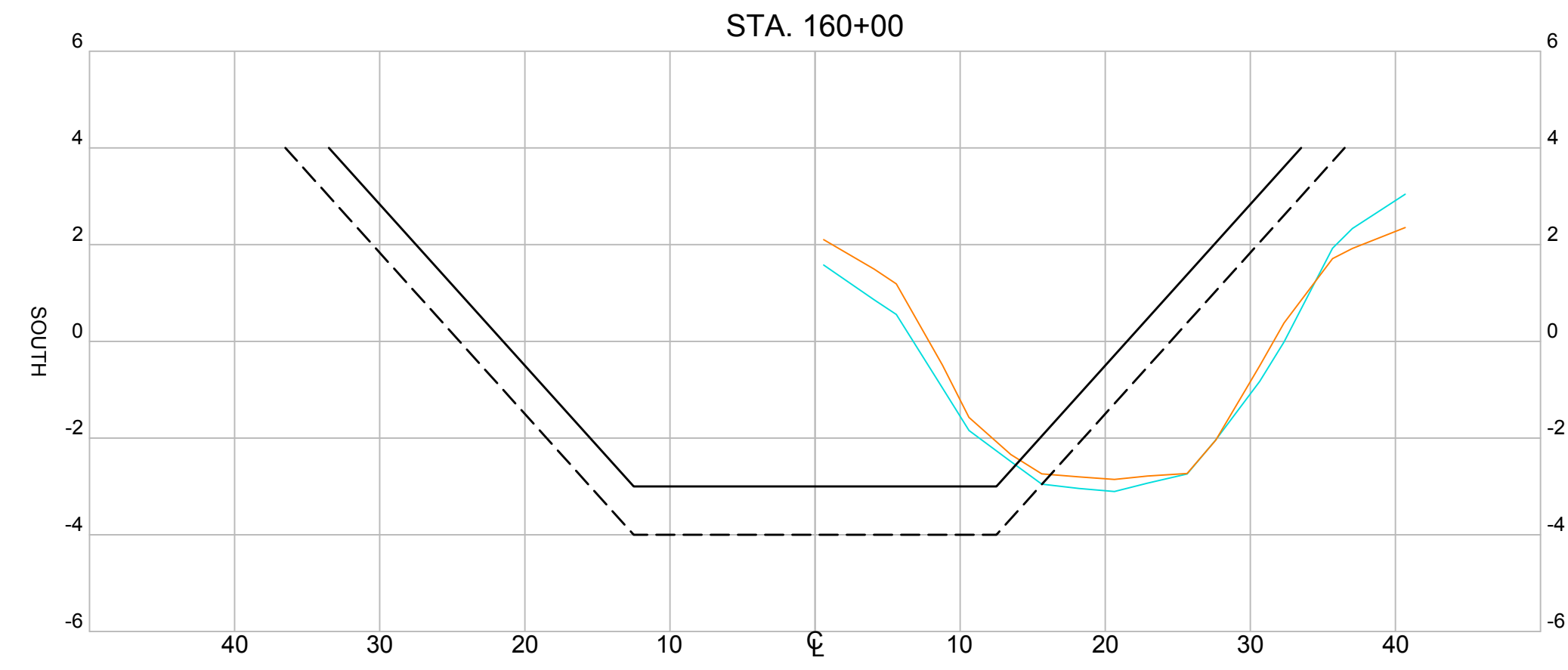
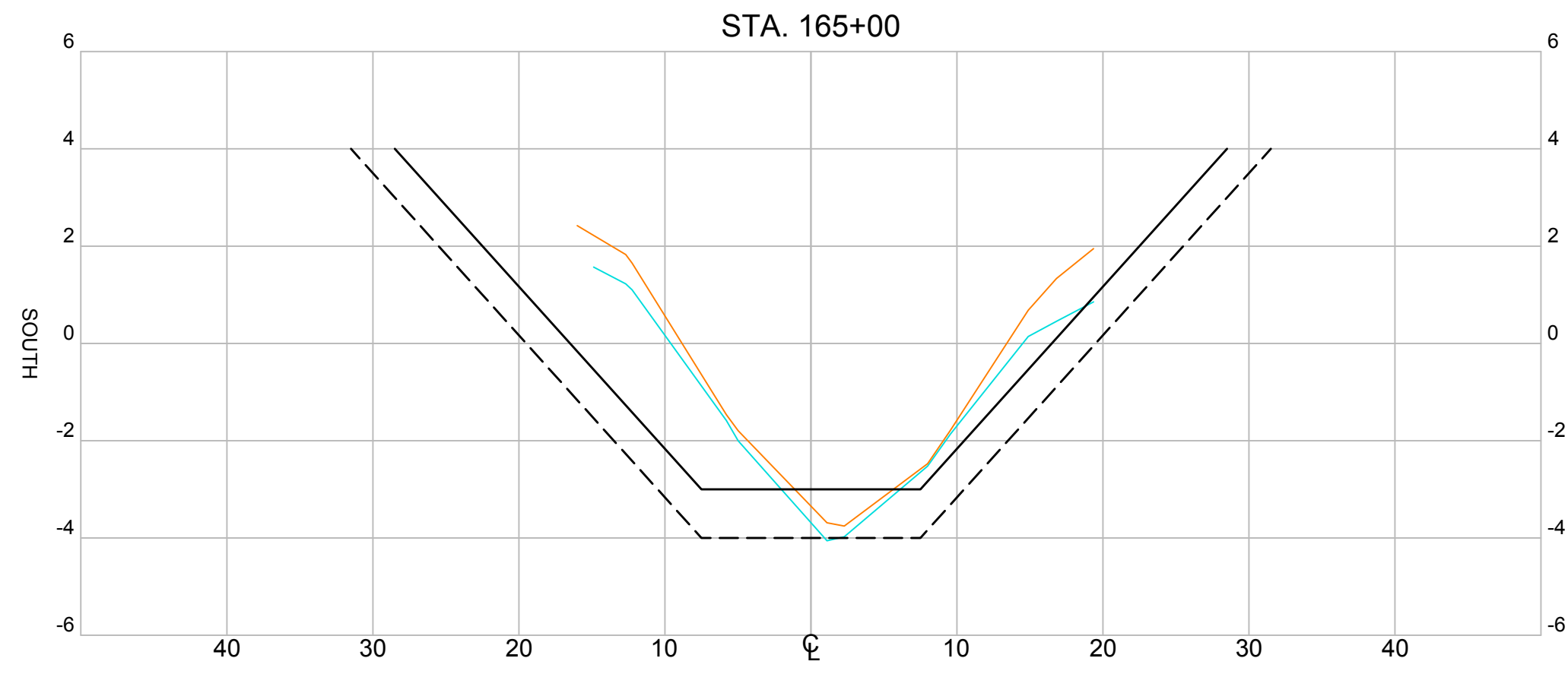
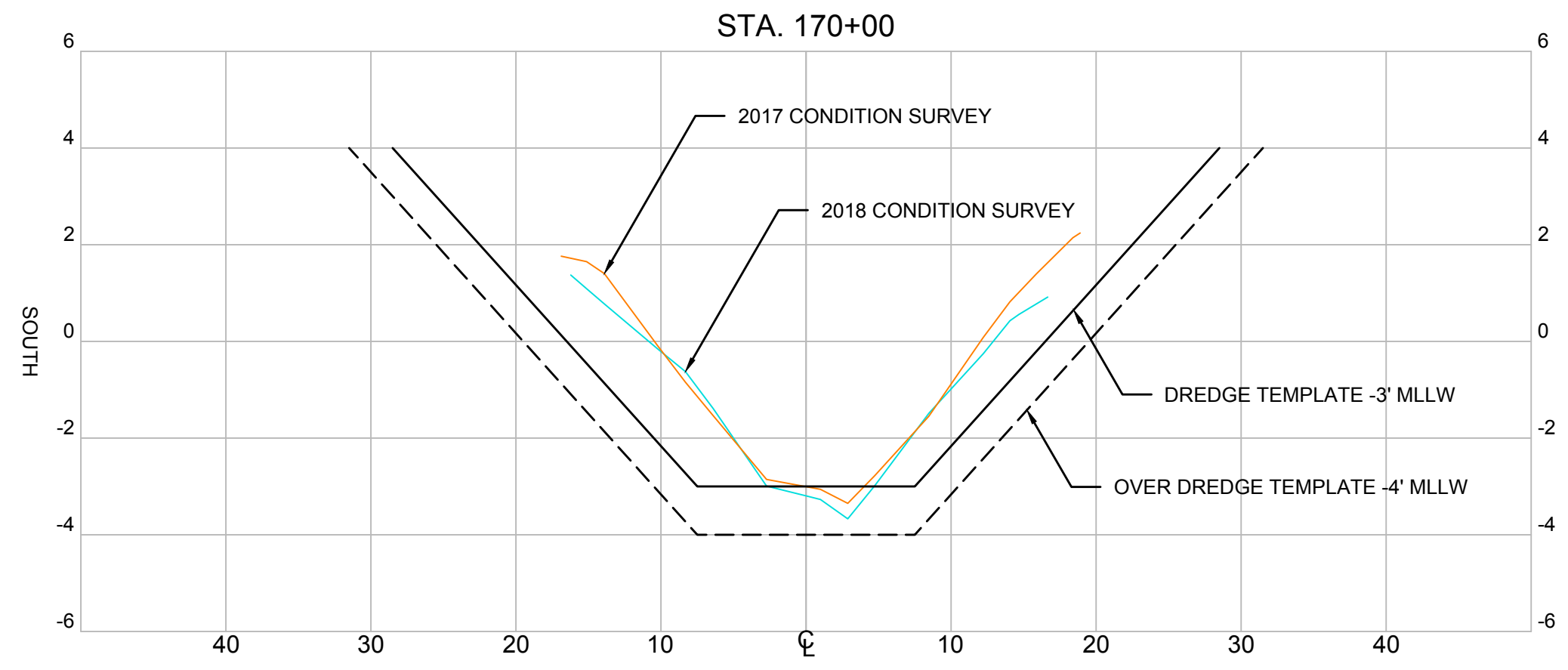
PROJECT ID: 18M113

SV-102

SHEET 4 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY:
 _____ DATE _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.
 BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
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 #4 MONTEGO KEY
 NOVATO, CA 94949

MARIN CALIFORNIA

	BY	DATE
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 173+00 TO 153+00

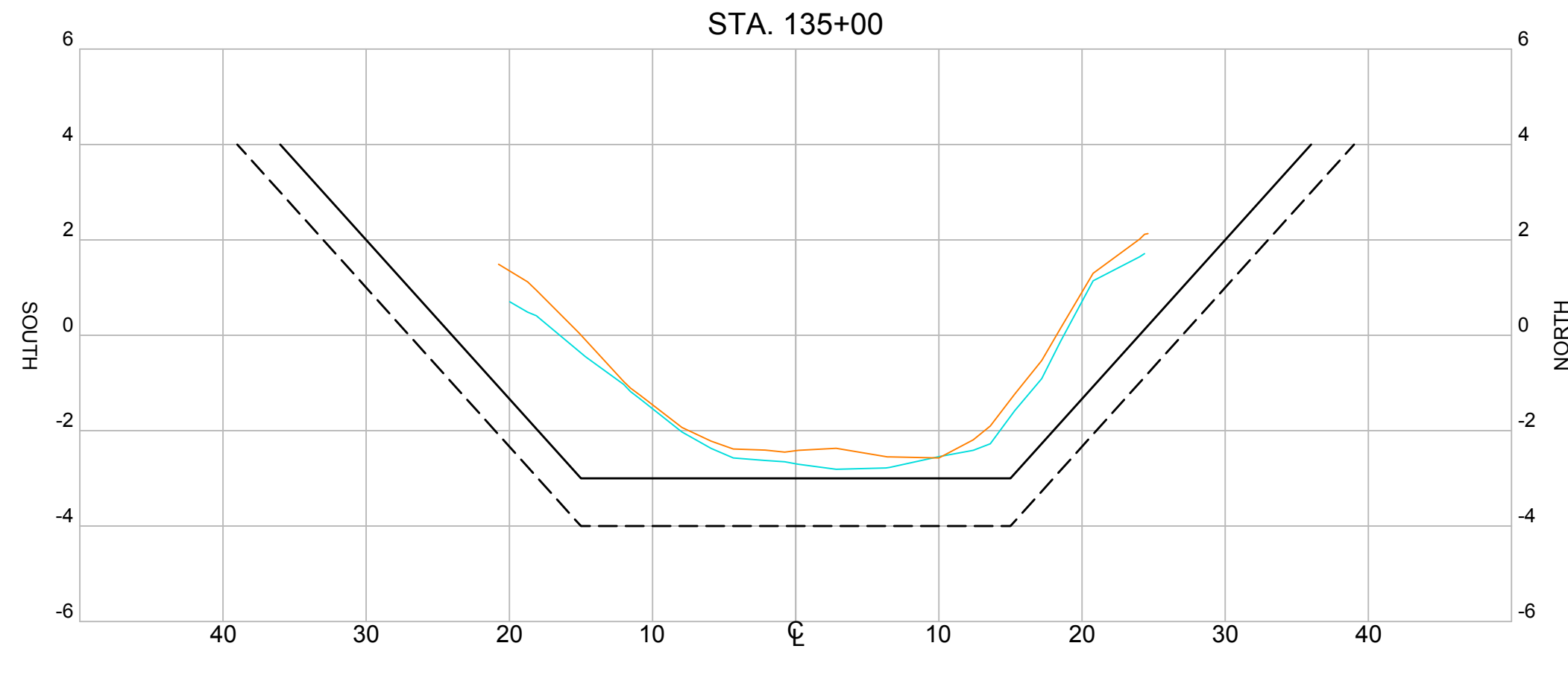
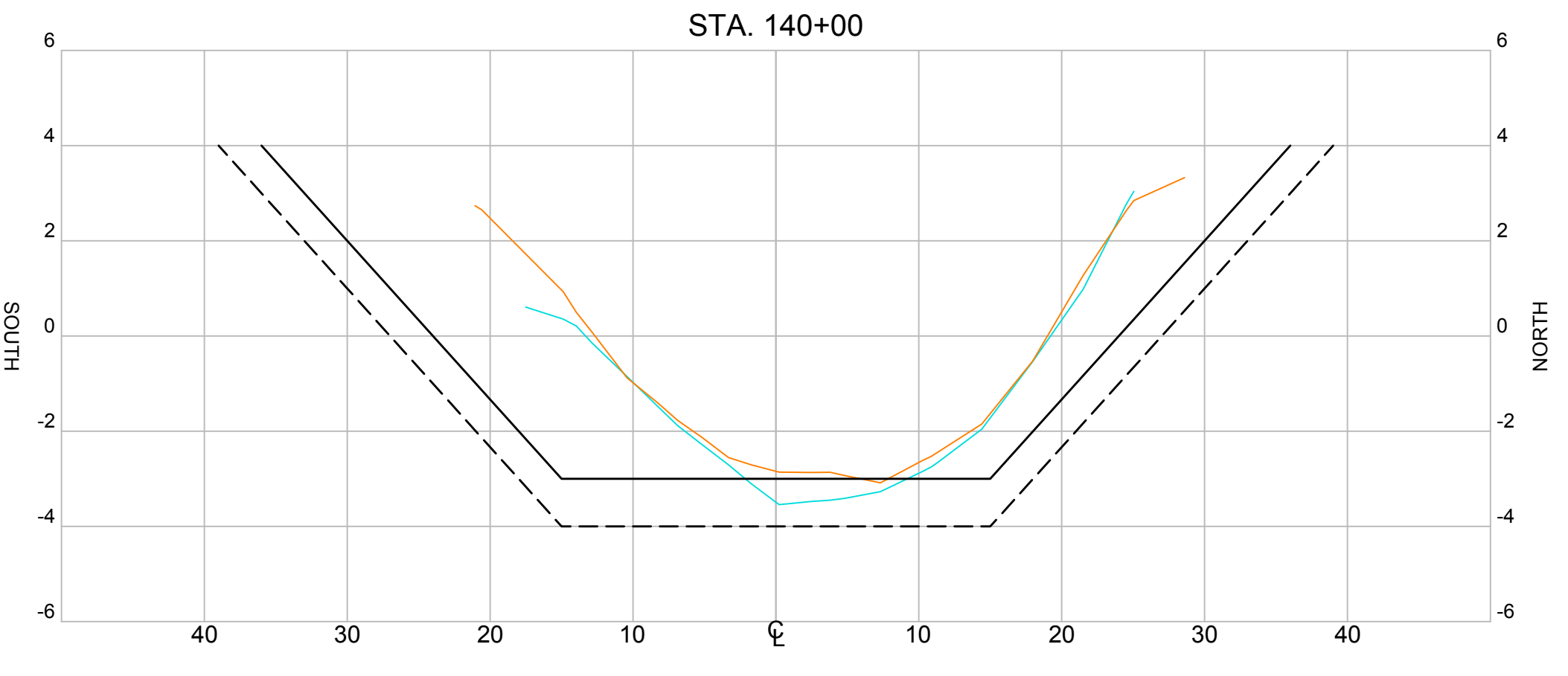
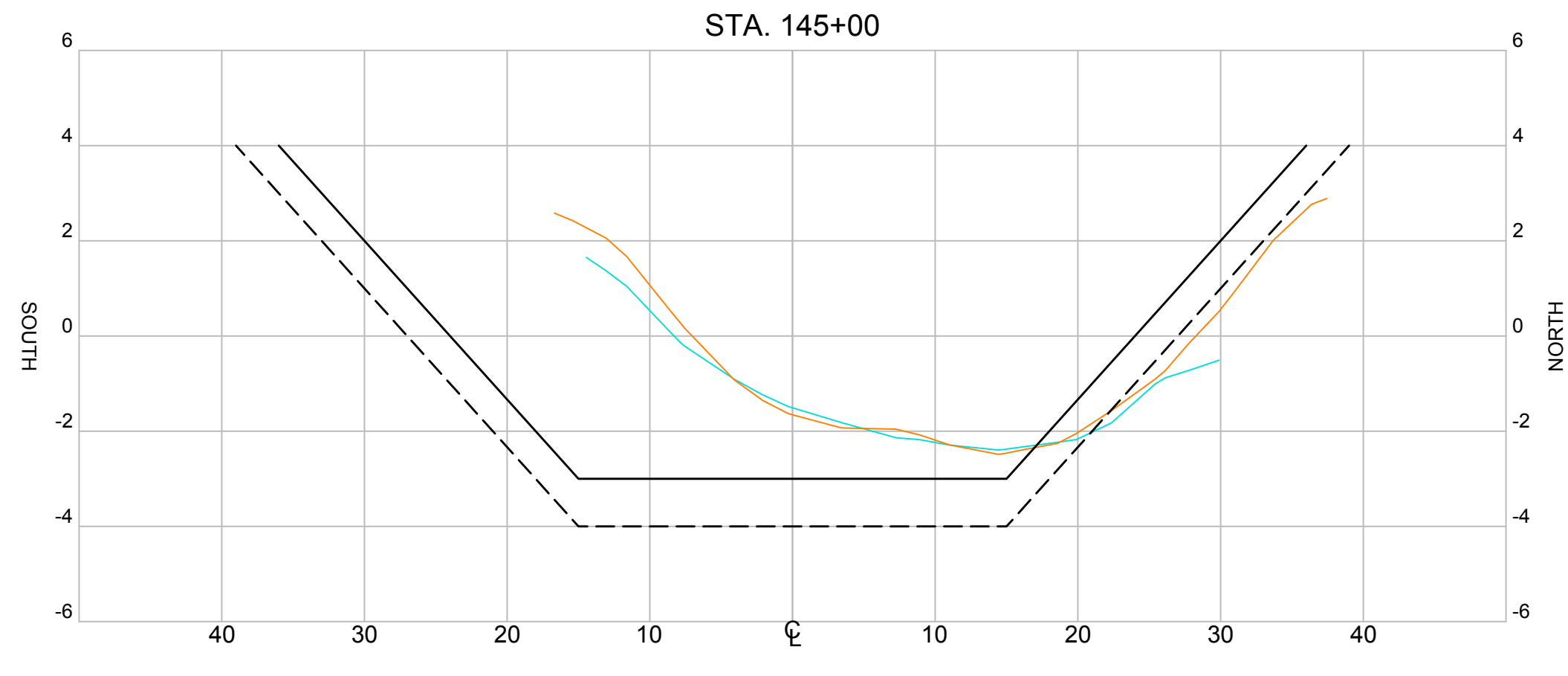
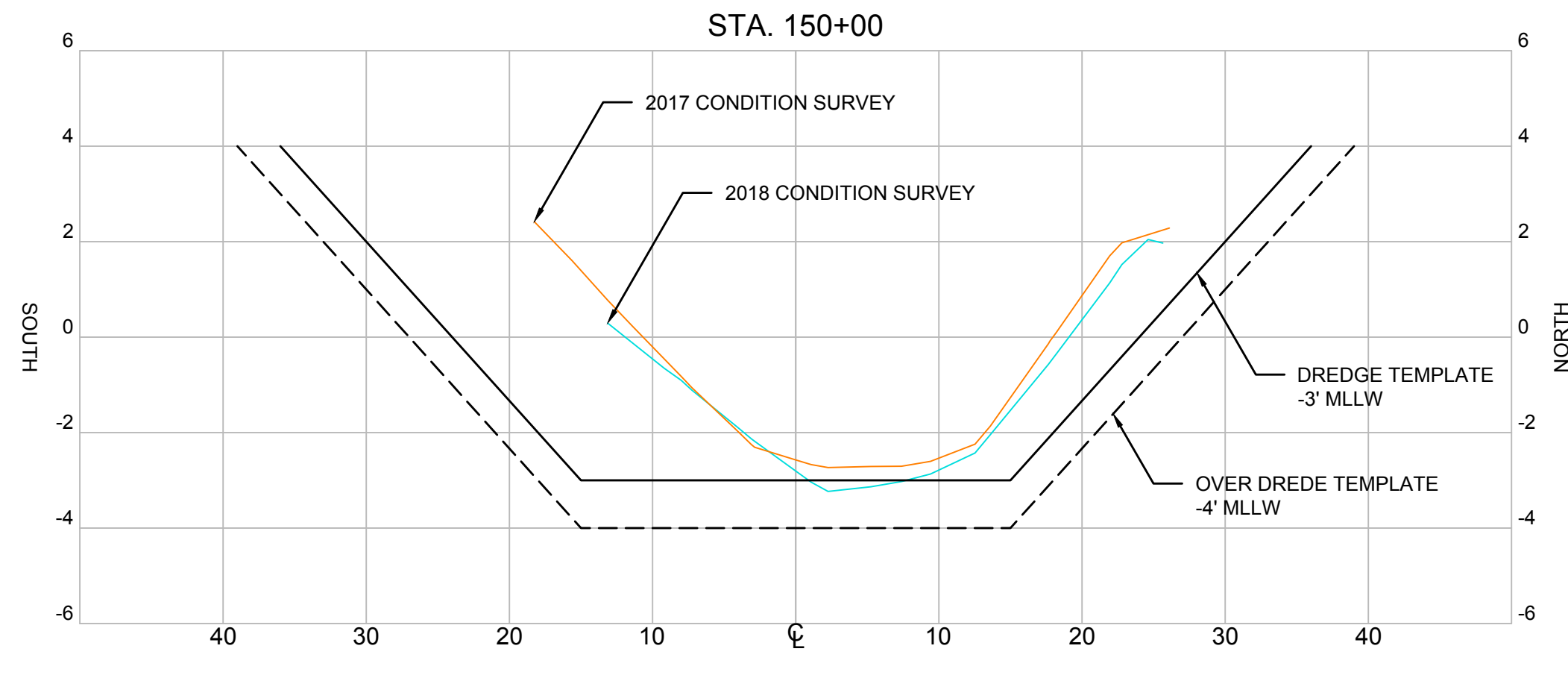
PROJECT ID: 18M113

SV-103

SHEET 5 OF 13



PLAN VIEW
SCALE: 1" = 60'
HORIZONTAL SCALE:
0 60' 120'



SECTIONS
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE:
0 10' 20'
VERTICAL SCALE:
0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

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RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

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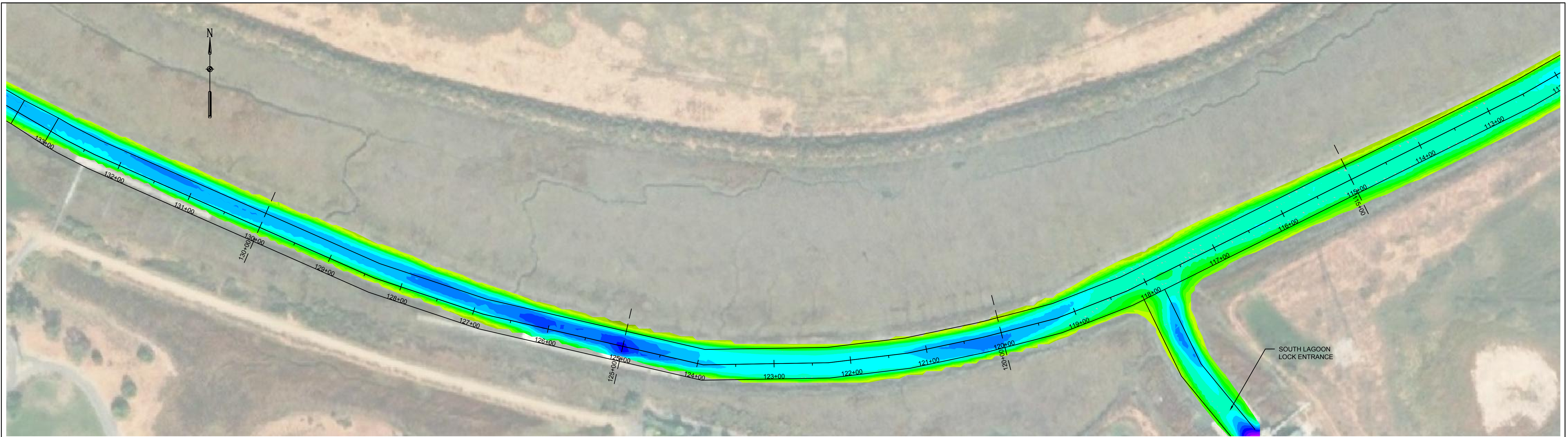
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 153+00 TO 133+00

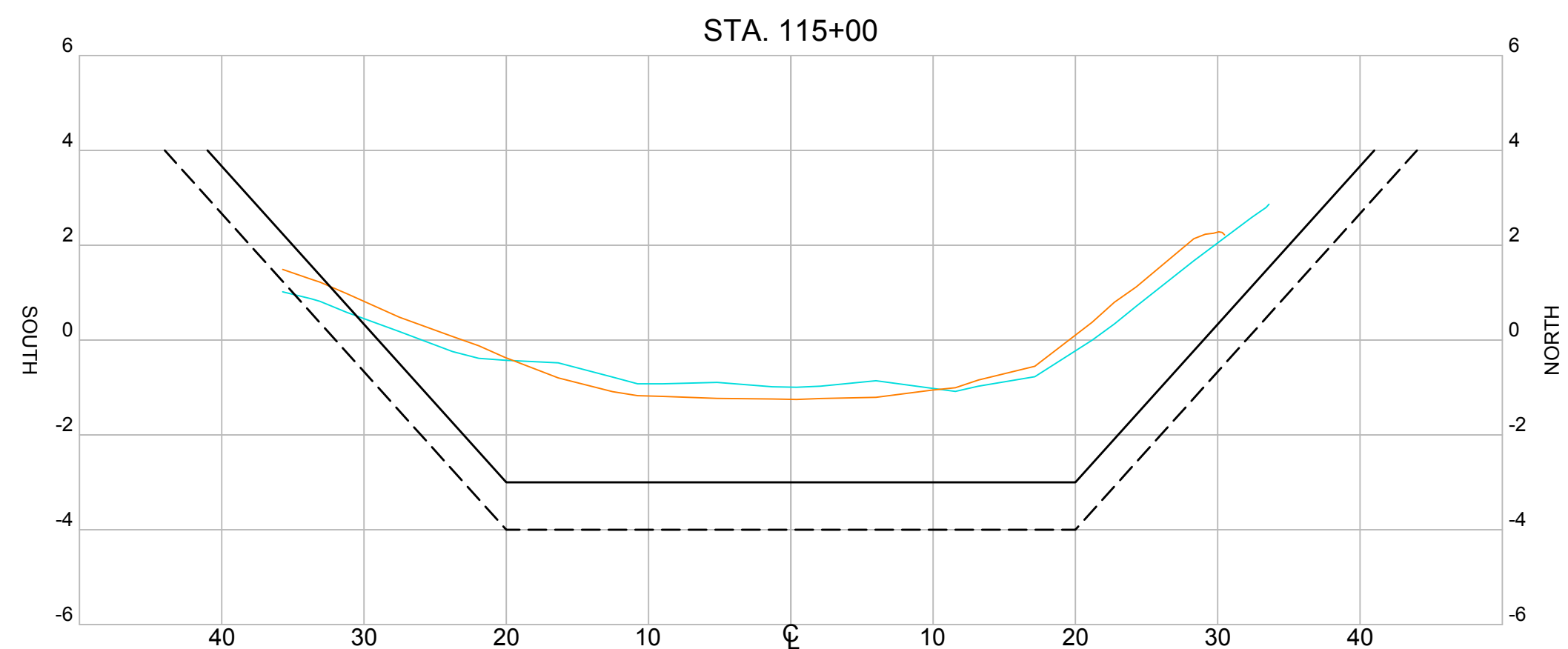
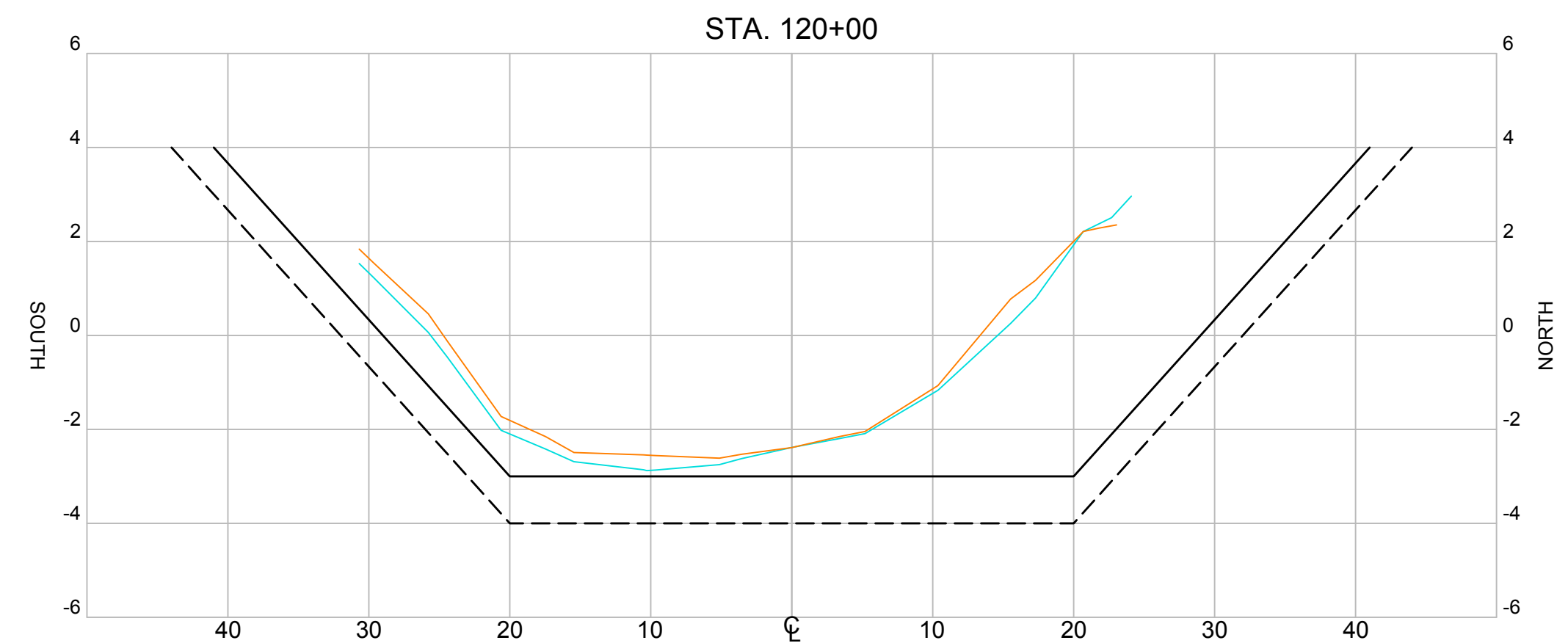
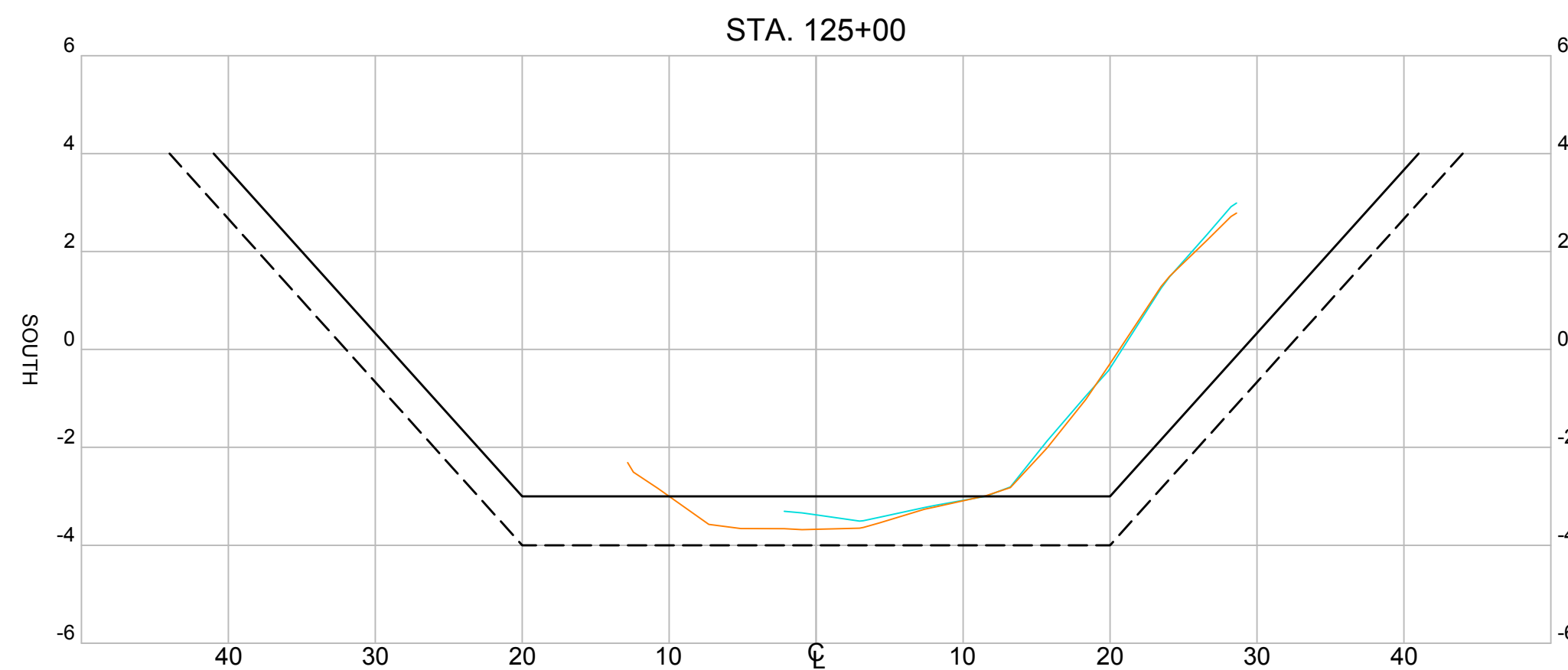
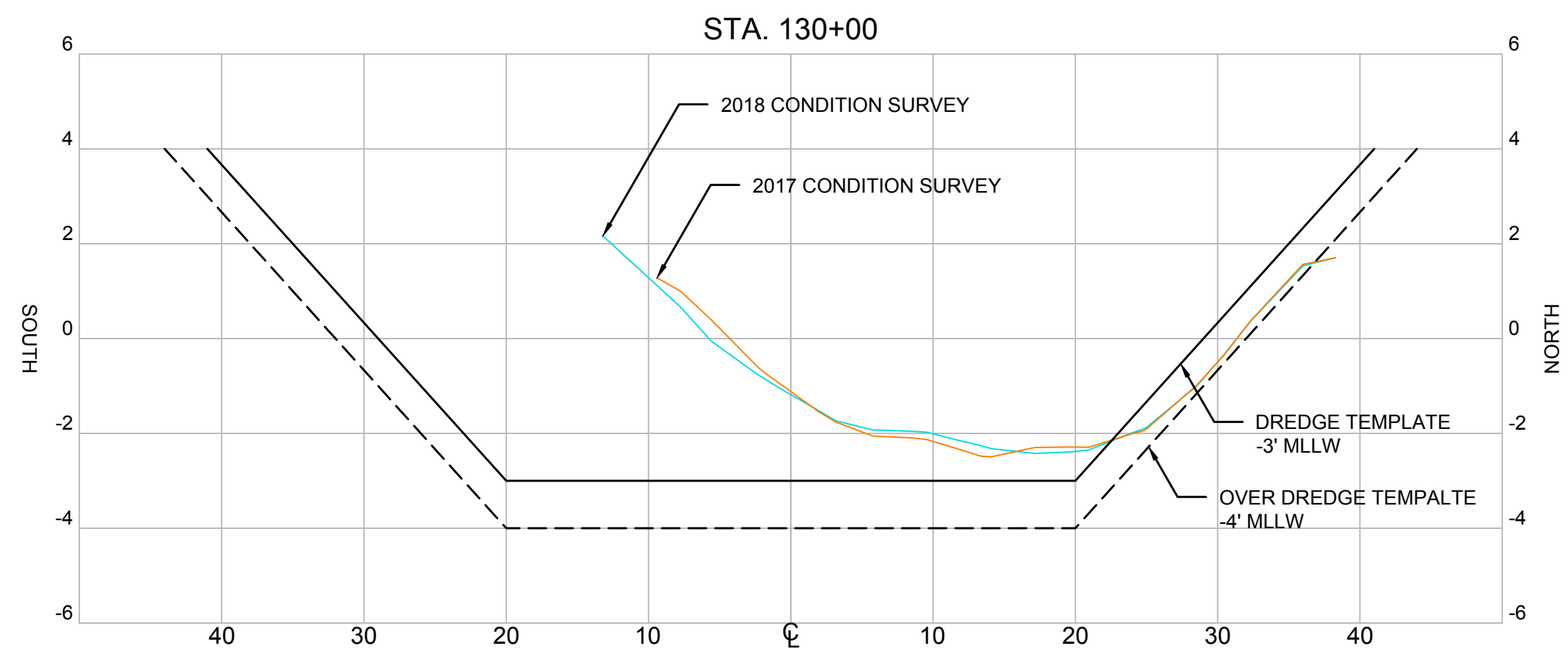
PROJECT ID: 18M113

SV-104

SHEET 6 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
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 #4 MONTEGO KEY
 NOVATO, CA 94949

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		



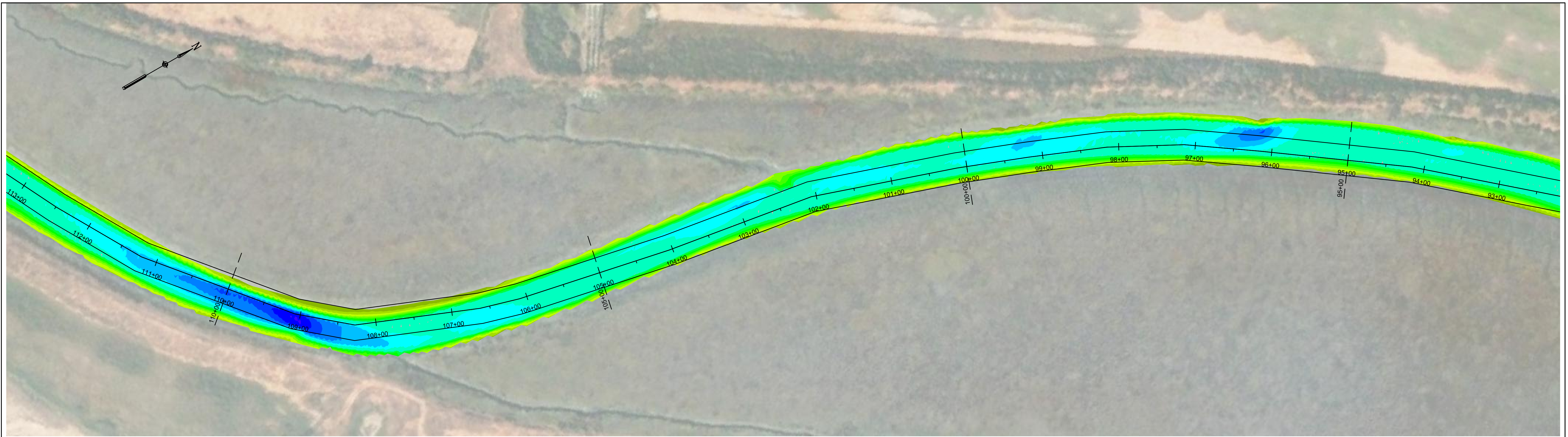
CHANNEL SITE PLAN AND CROSS SECTIONS
 STA 133+00 TO 113+00

PROJECT ID: 18M113

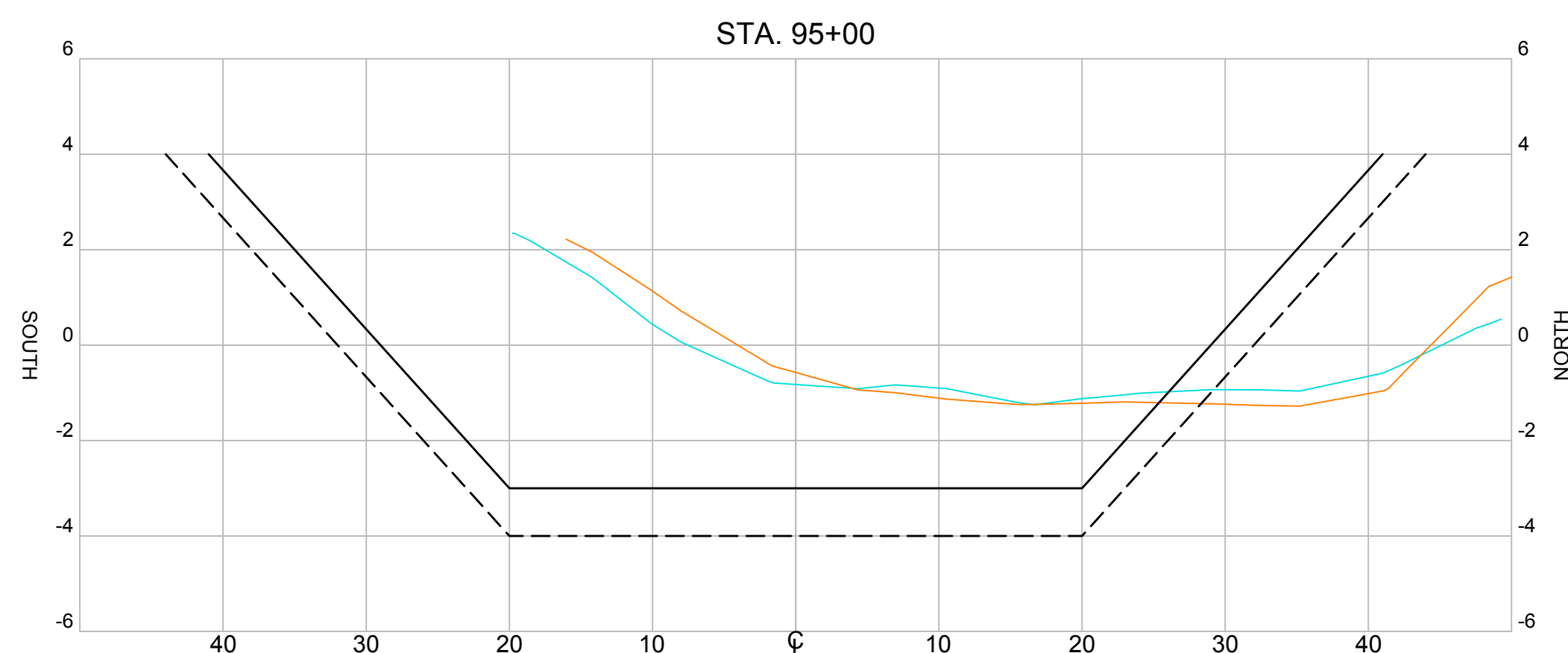
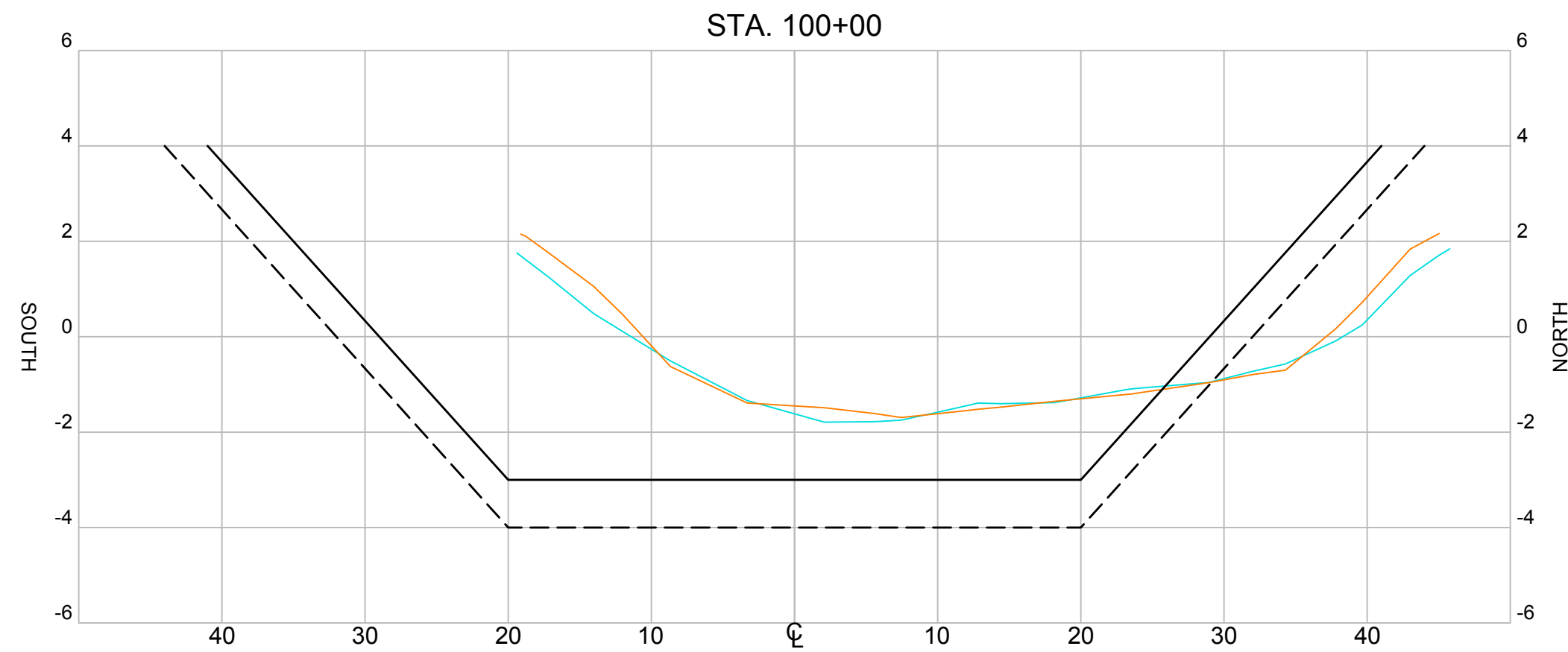
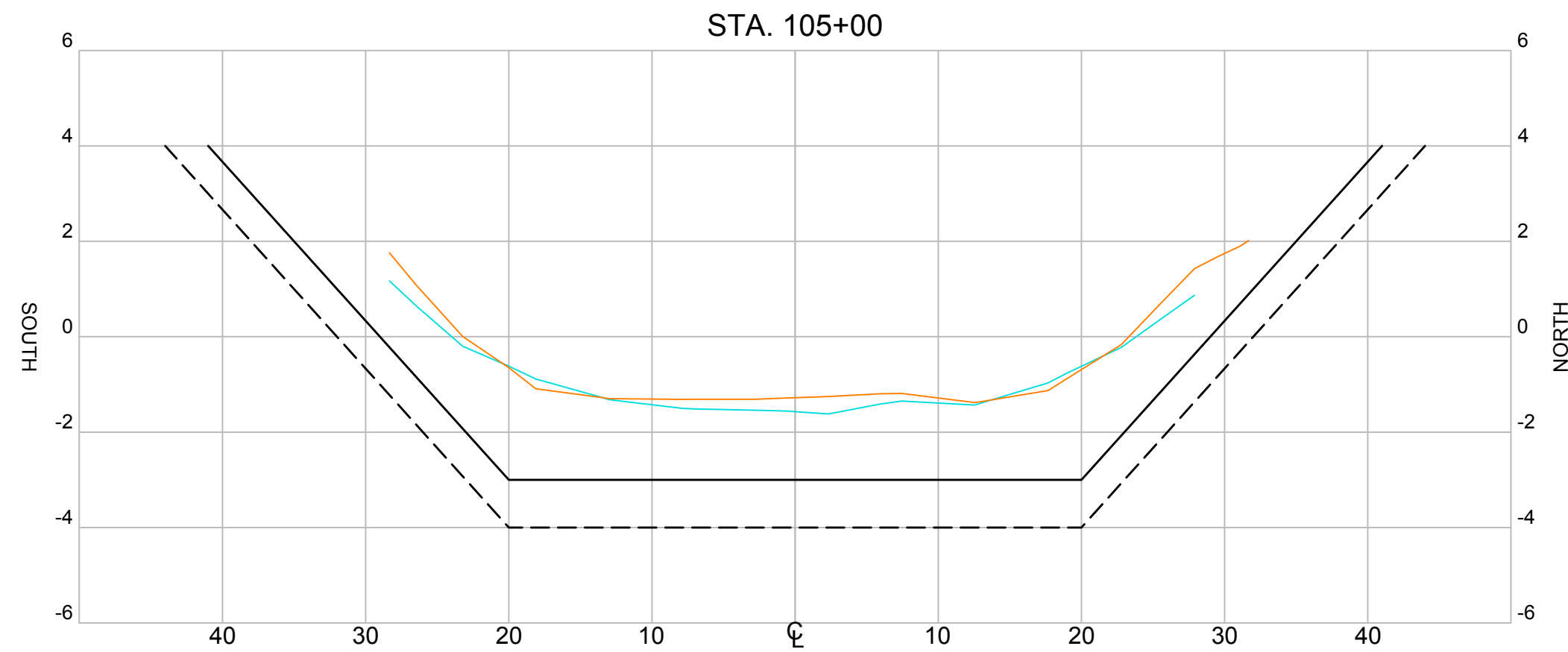
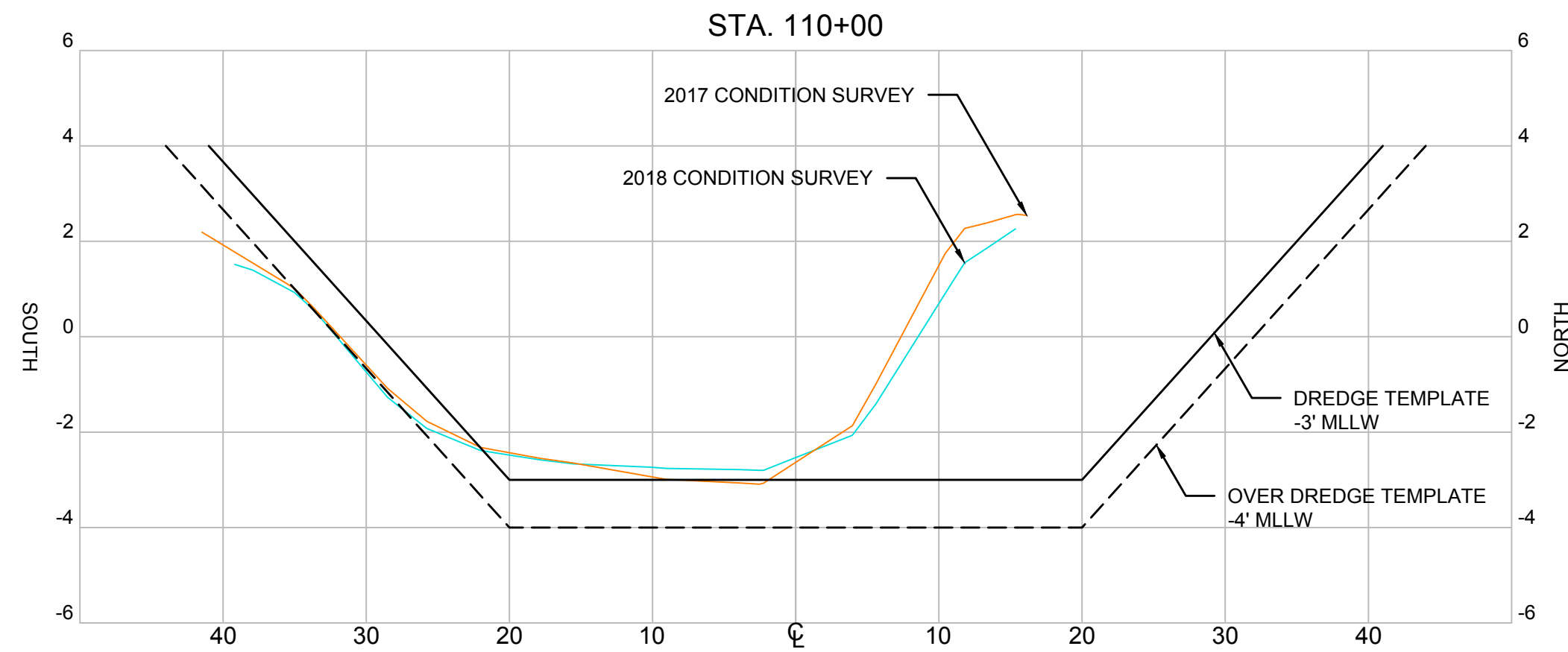
SV-105

SHEET 7 OF 13

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PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

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MARIN CALIFORNIA

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
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CHECKED		

Foth
 Foth Infrastructure & Environment, LLC
 384 Bel Marin Keys Boulevard, Suite 140
 Novato, CA 94949
 Phone: 415.884.8011

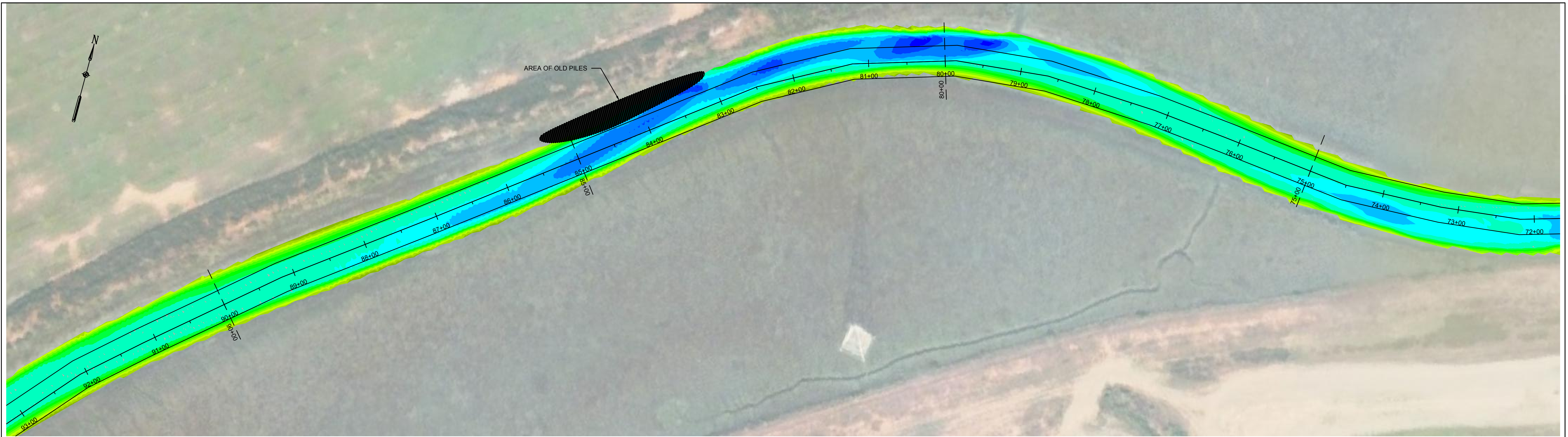
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 113+00 TO 93+00

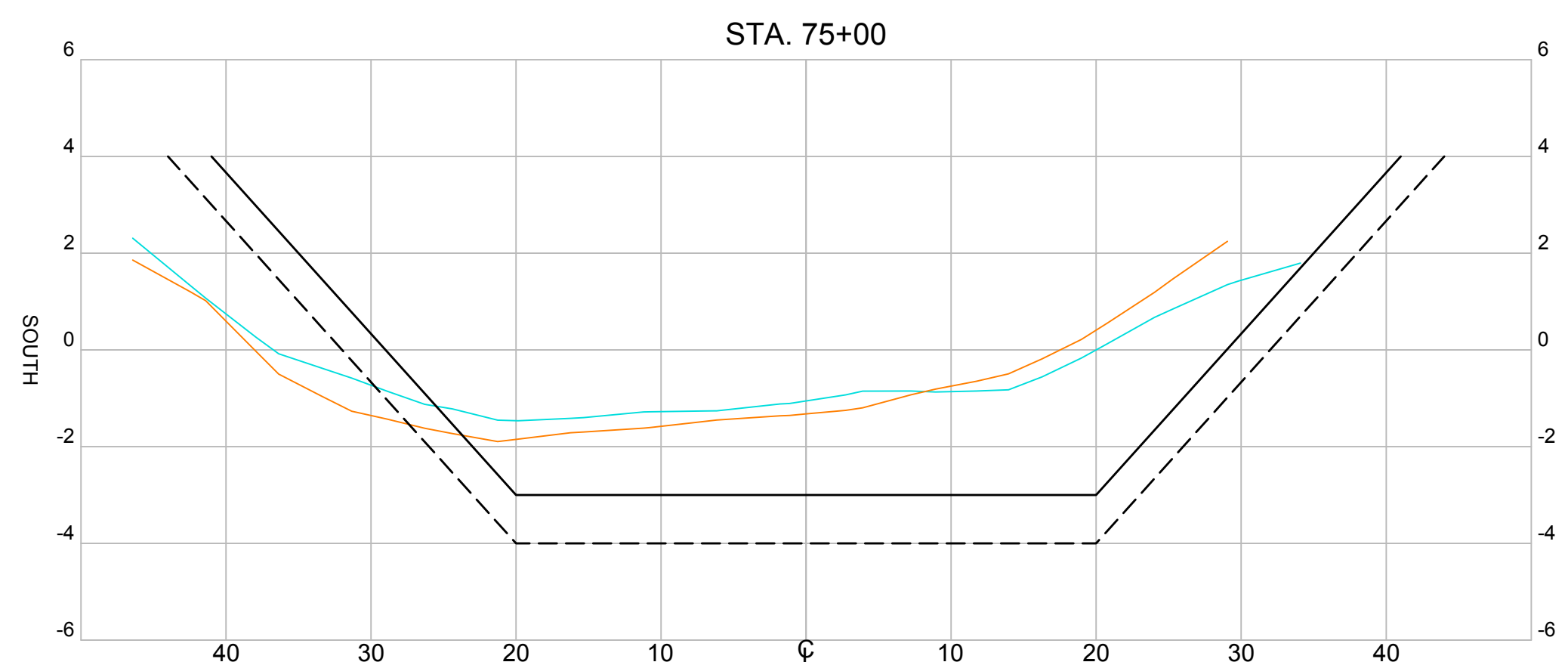
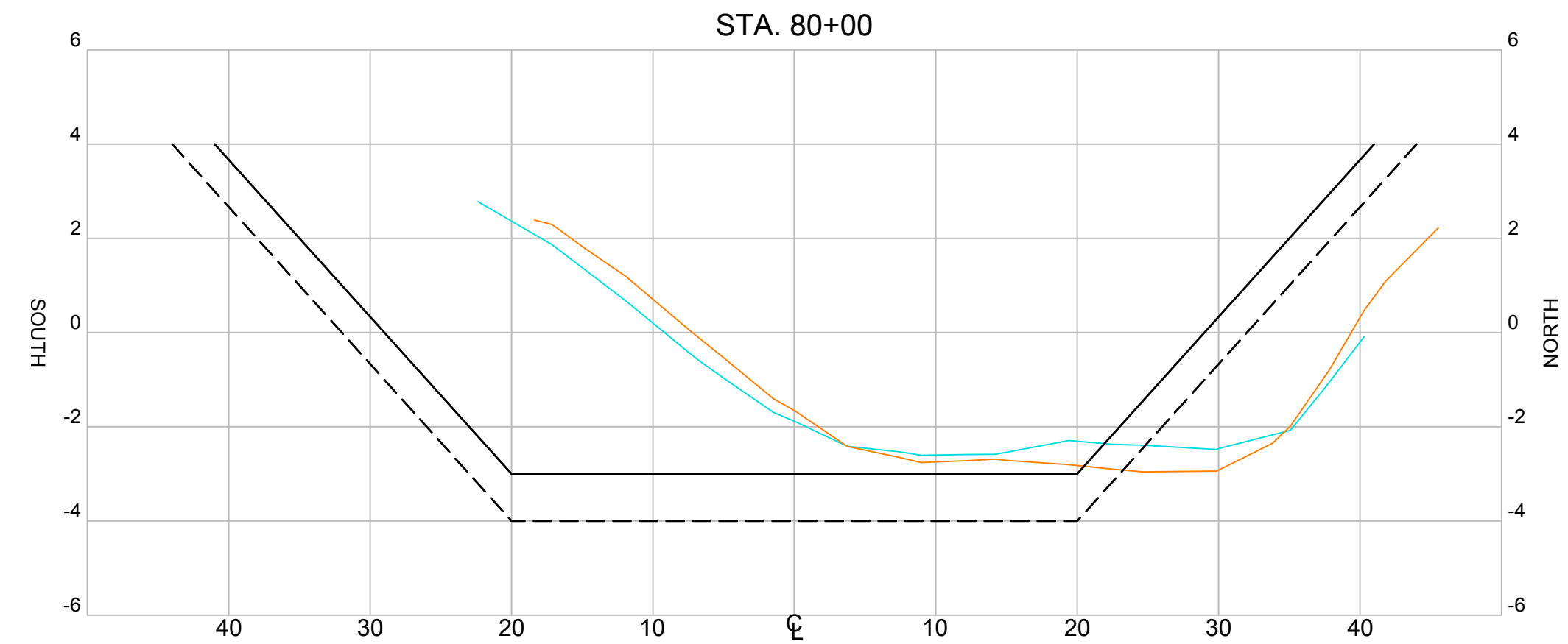
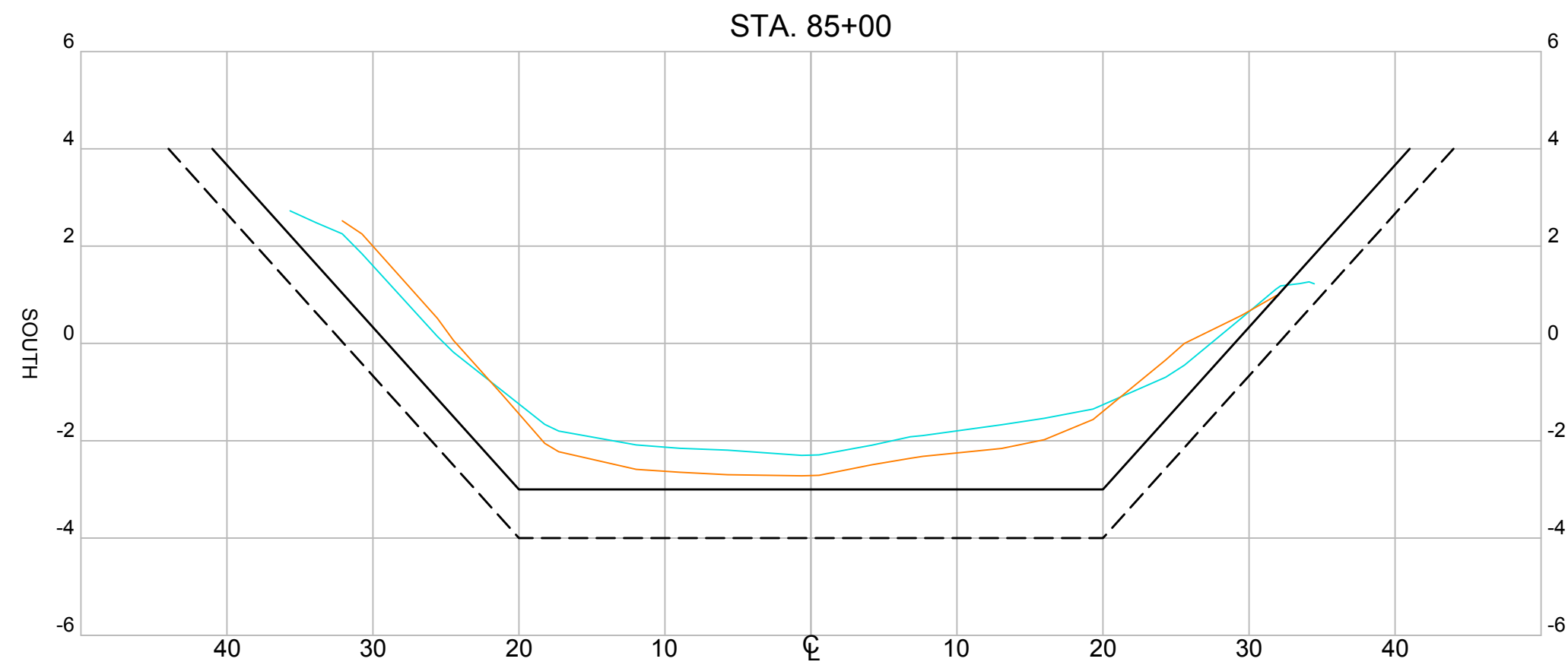
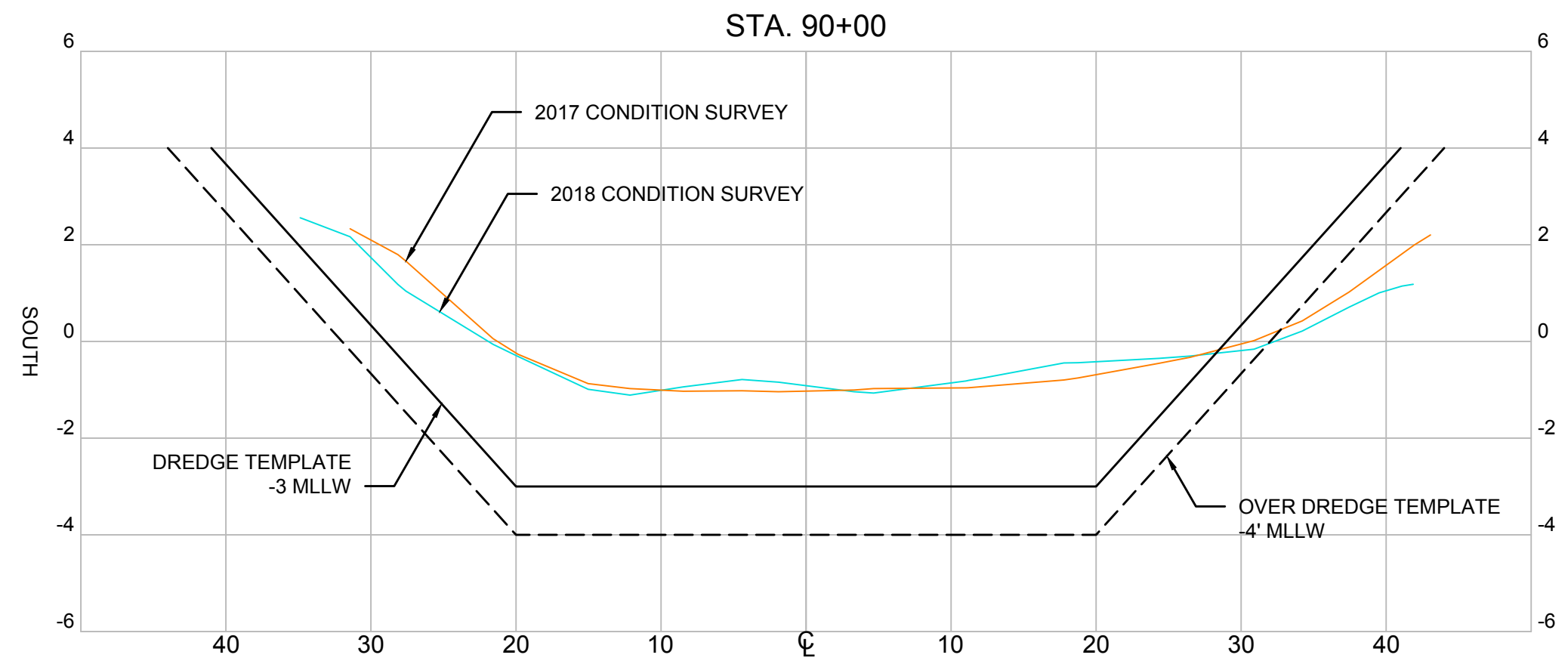
PROJECT ID: 18M113

SV-106

SHEET 8 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY:
 _____ DATE _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.
 BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

MARIN CALIFORNIA

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		



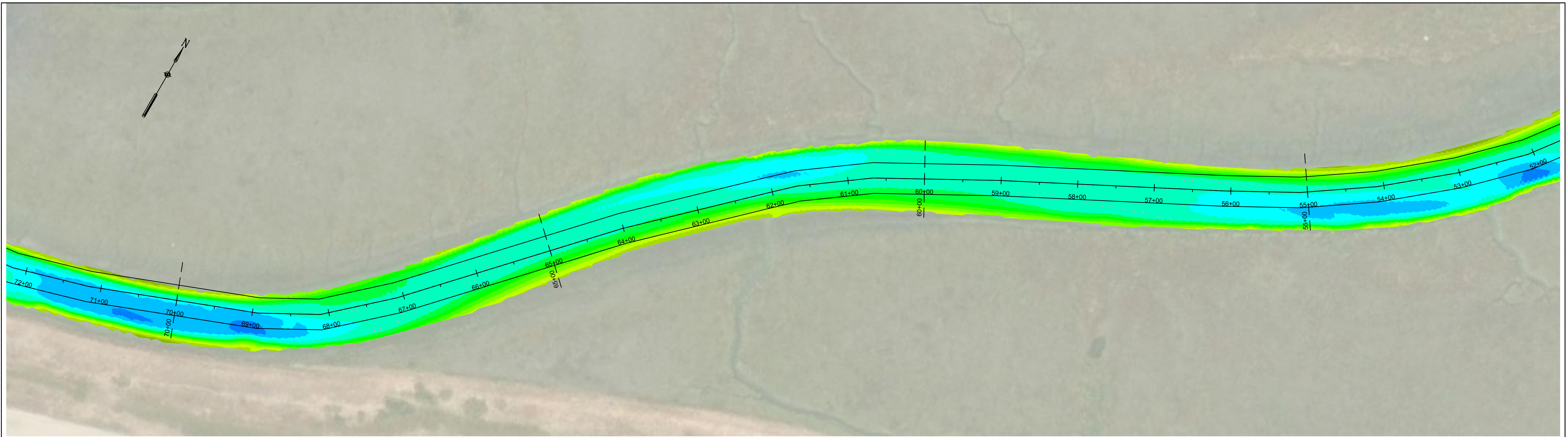
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 93+00 TO 72+00

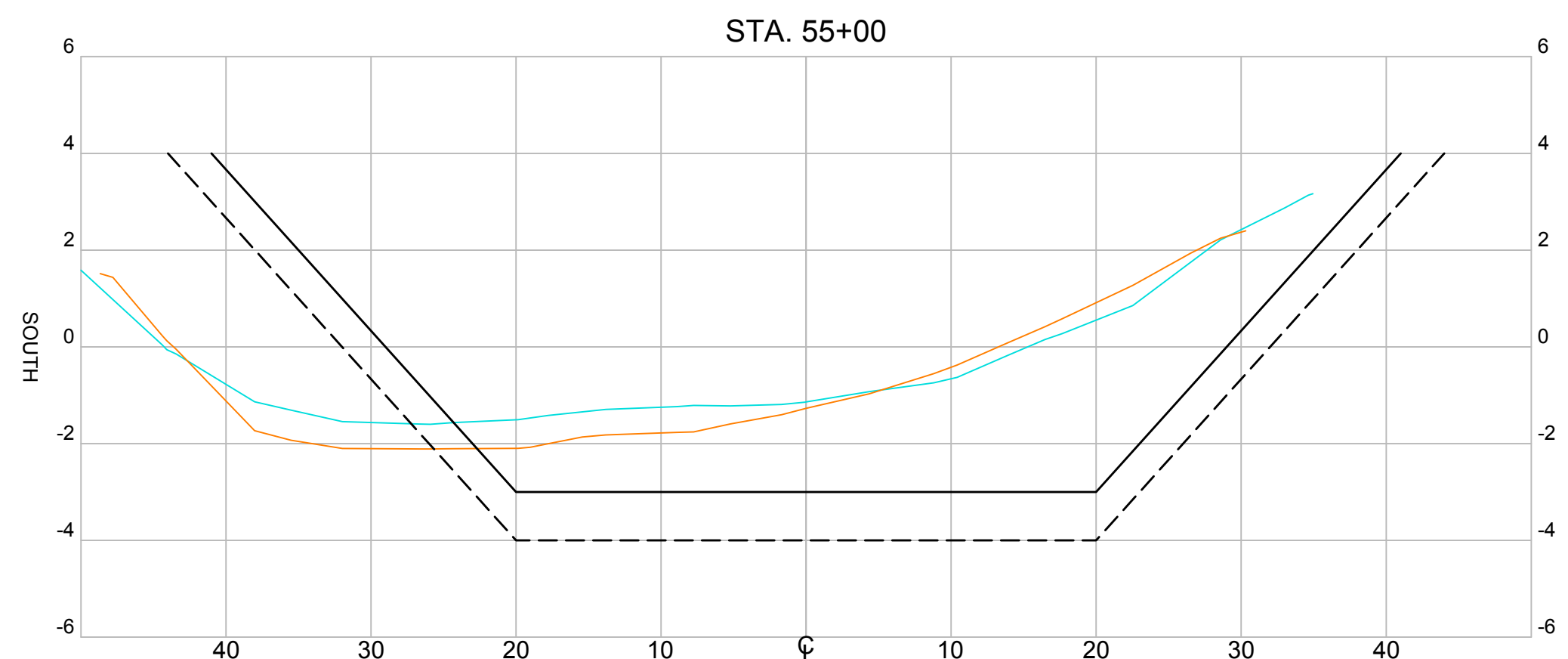
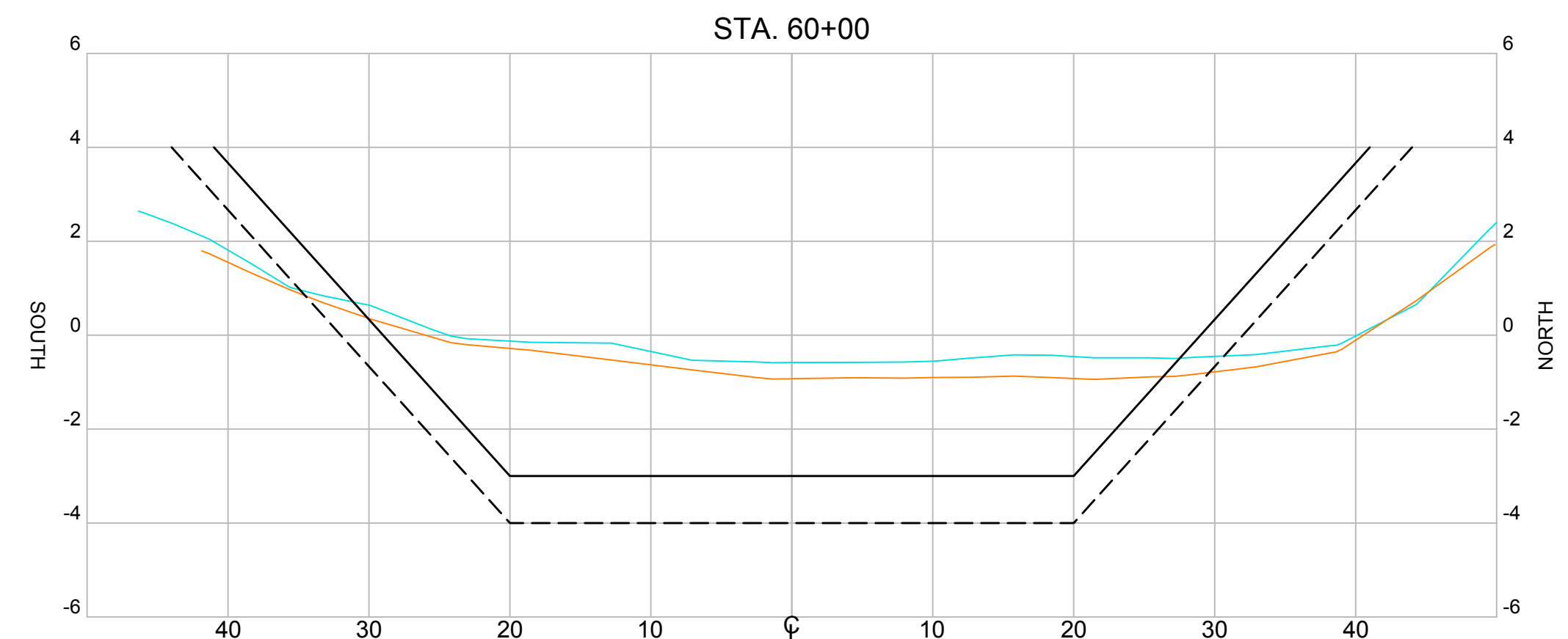
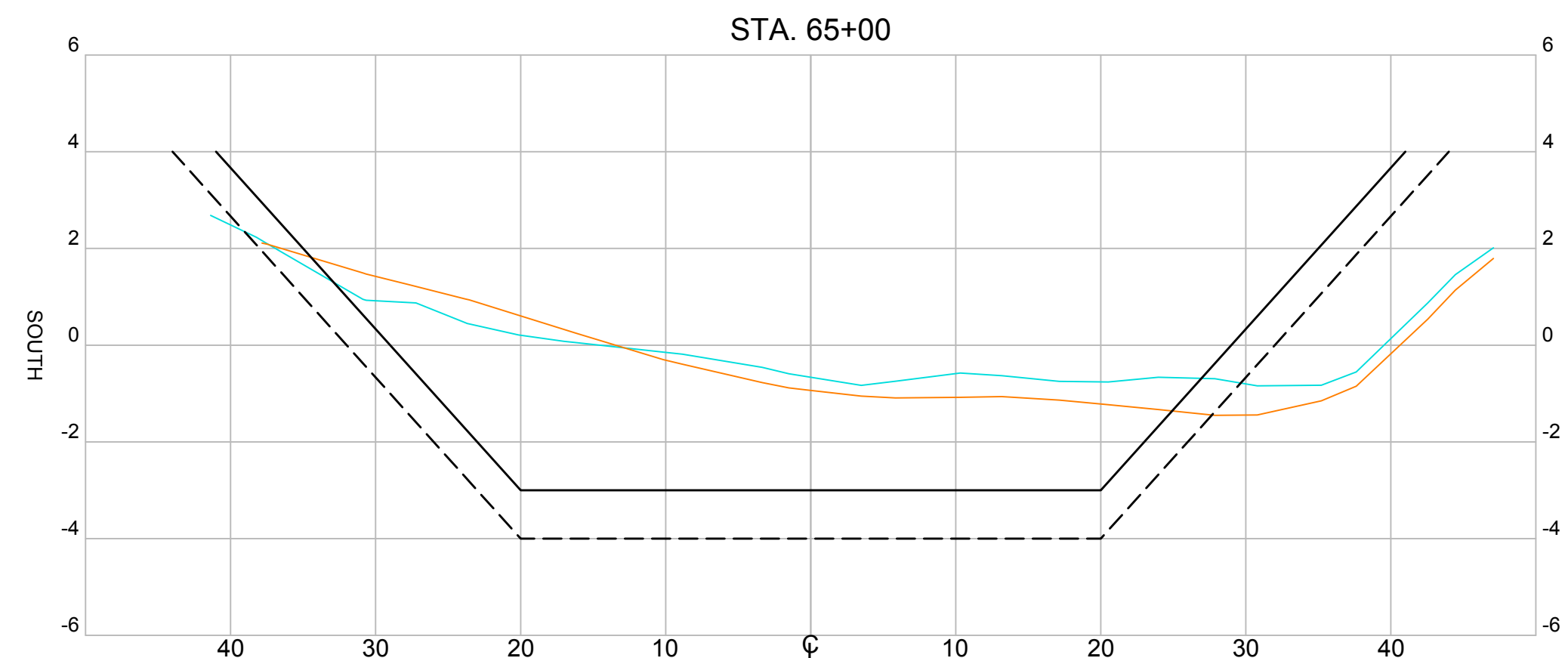
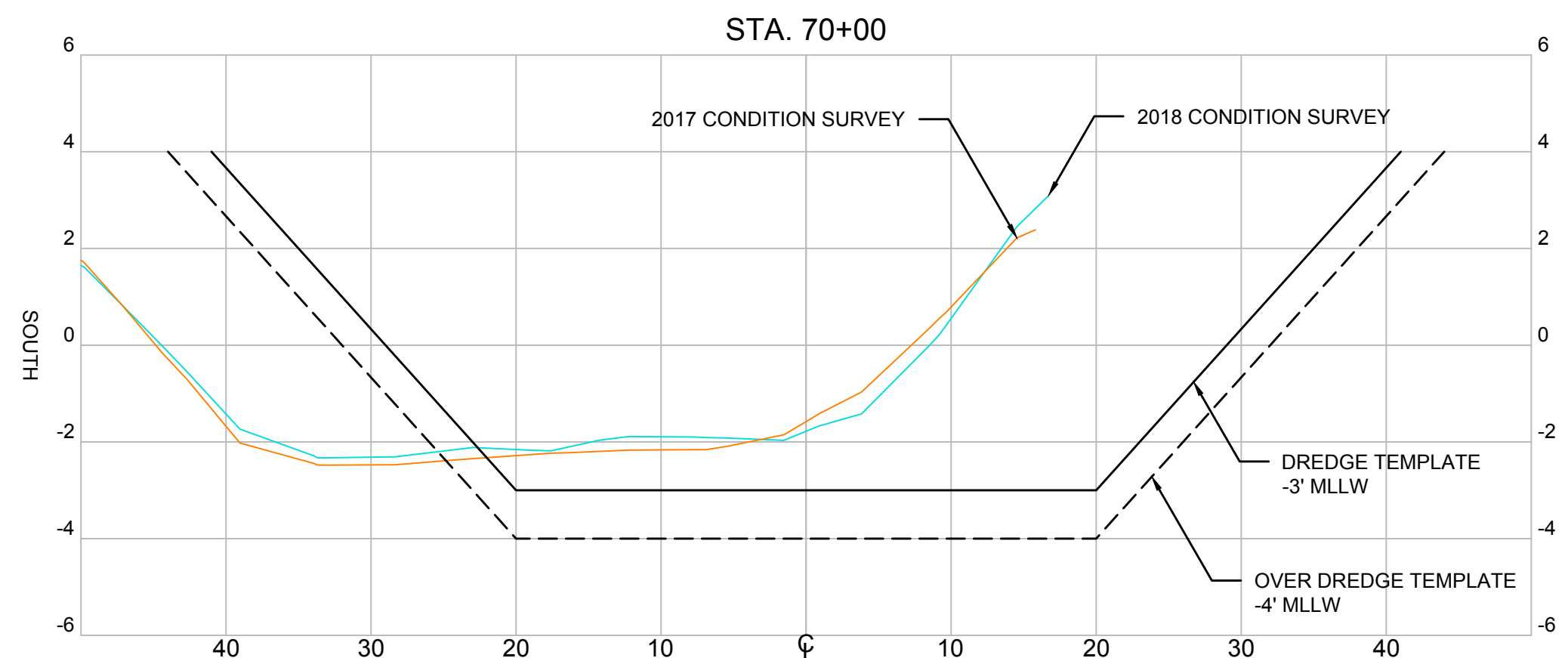
PROJECT ID: 18M113

SV-107

SHEET 9 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		

Foth
 Foth Infrastructure & Environment, LLC
 384 Bel Marin Keys Boulevard, Suite 140
 Novato, CA 94949
 Phone: 415.884.8011

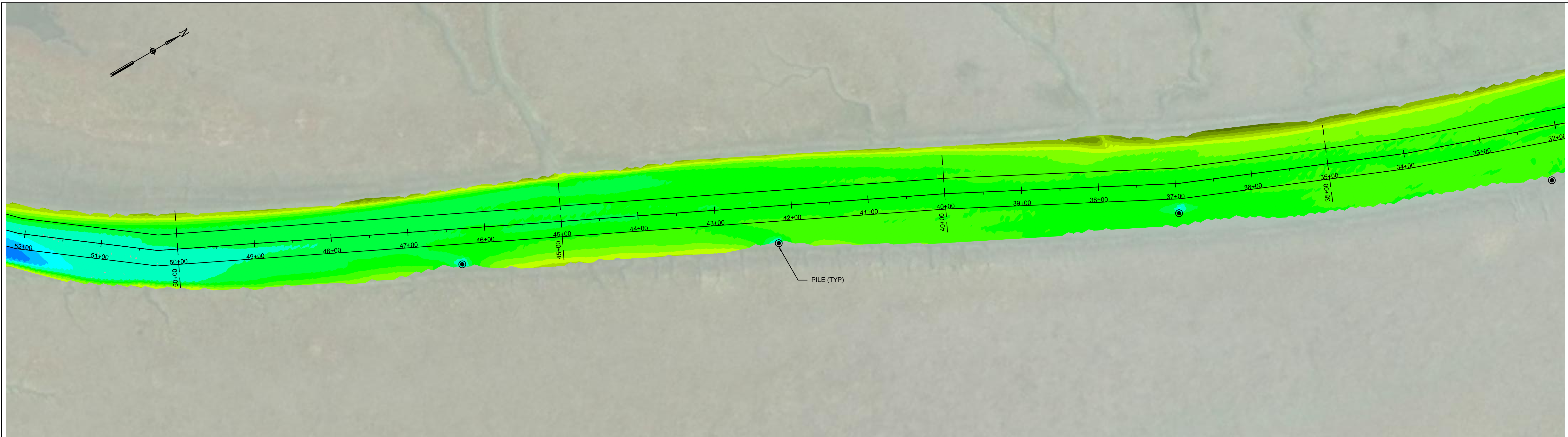
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 72+00 TO 52+00

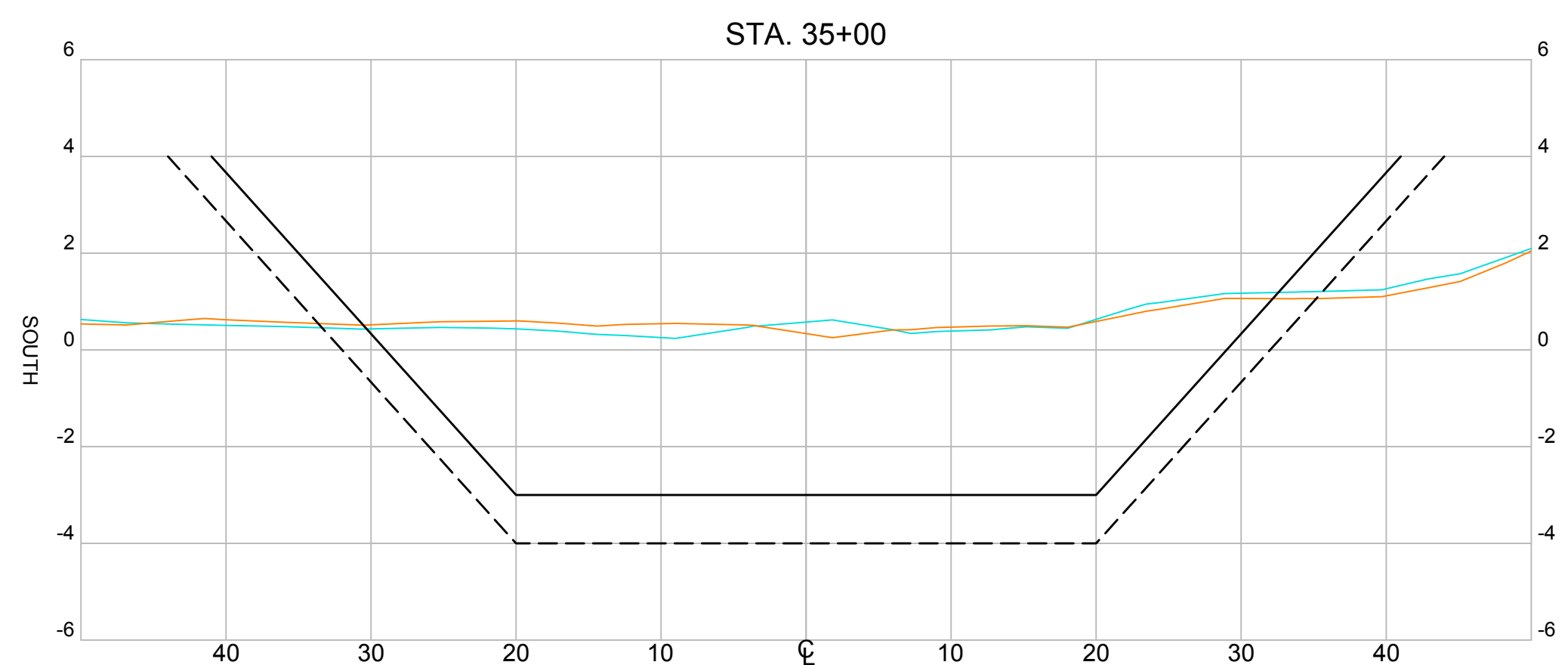
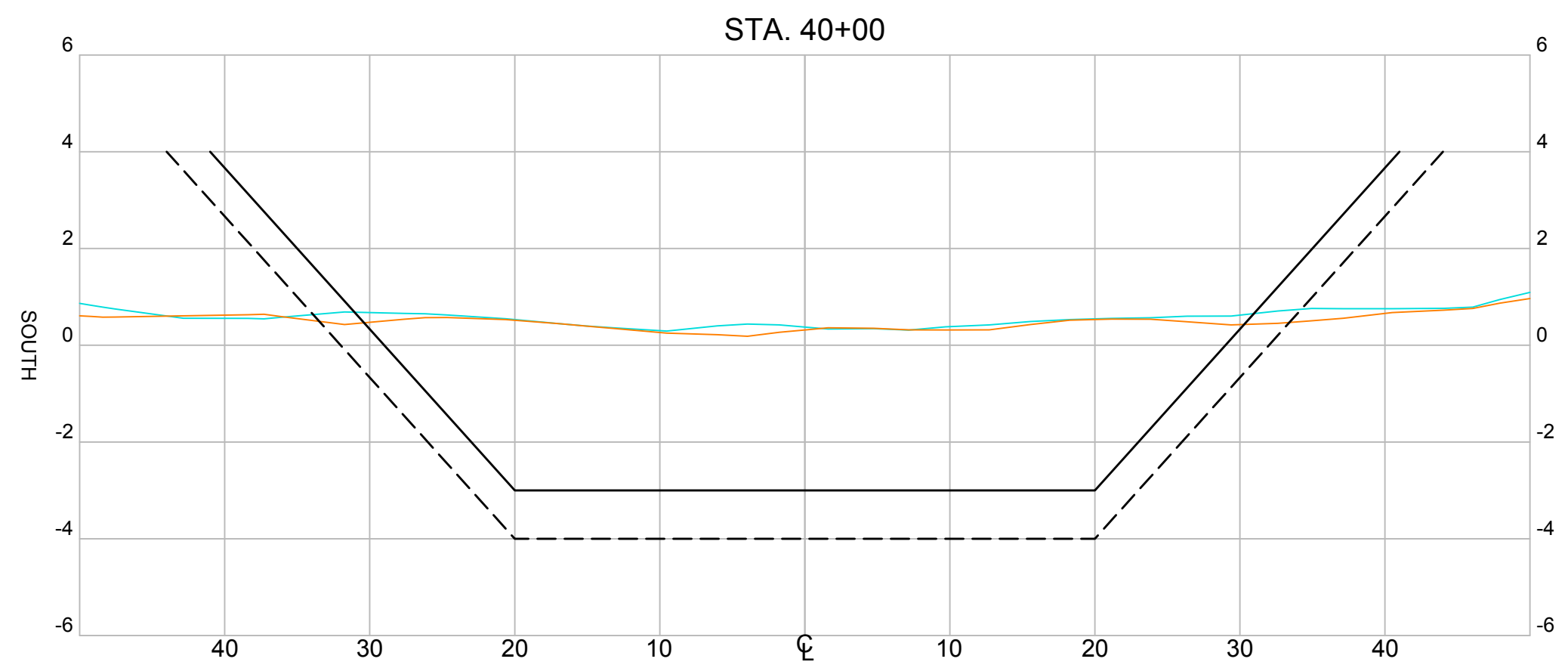
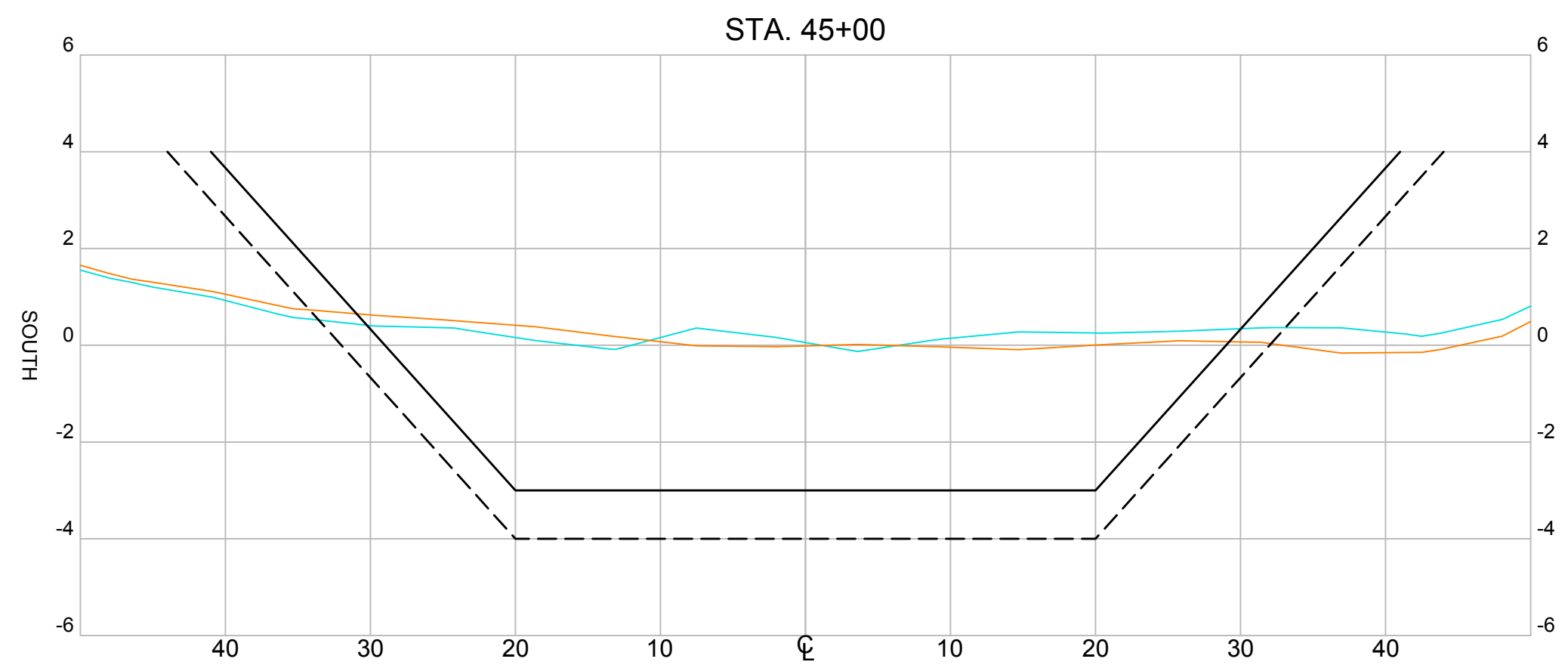
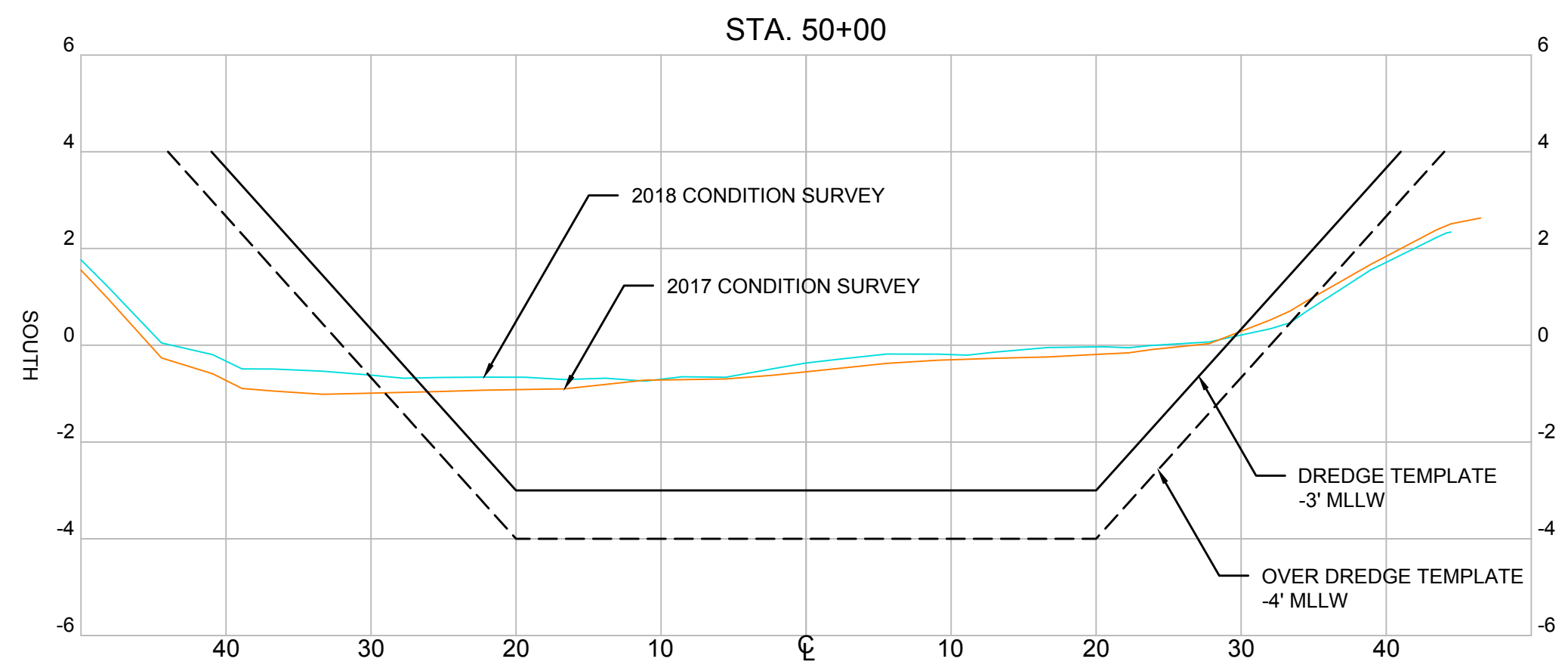
PROJECT ID: 18M113

SV-108

SHEET 10 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		

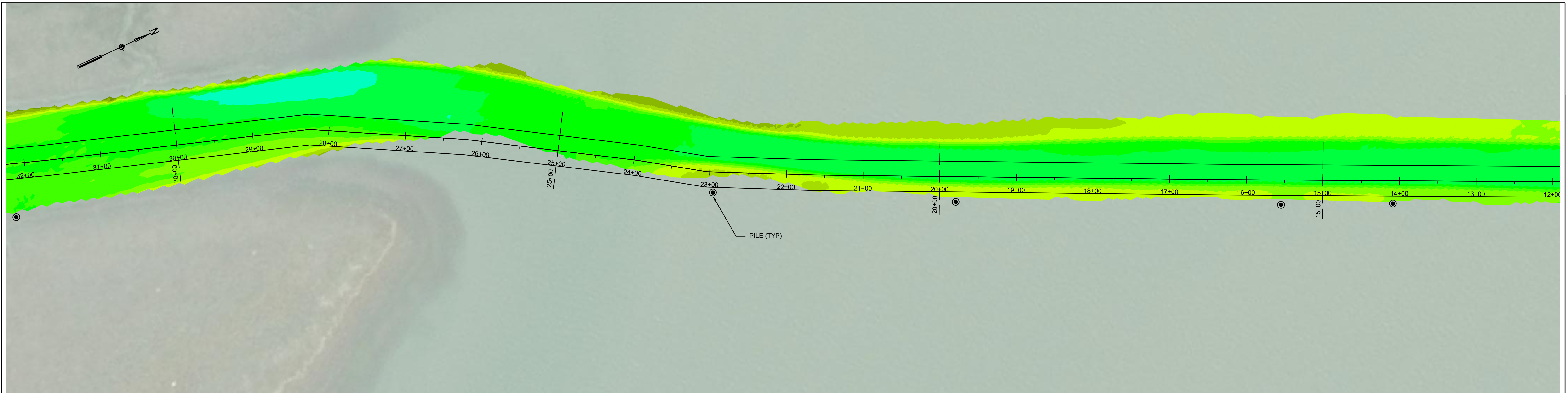


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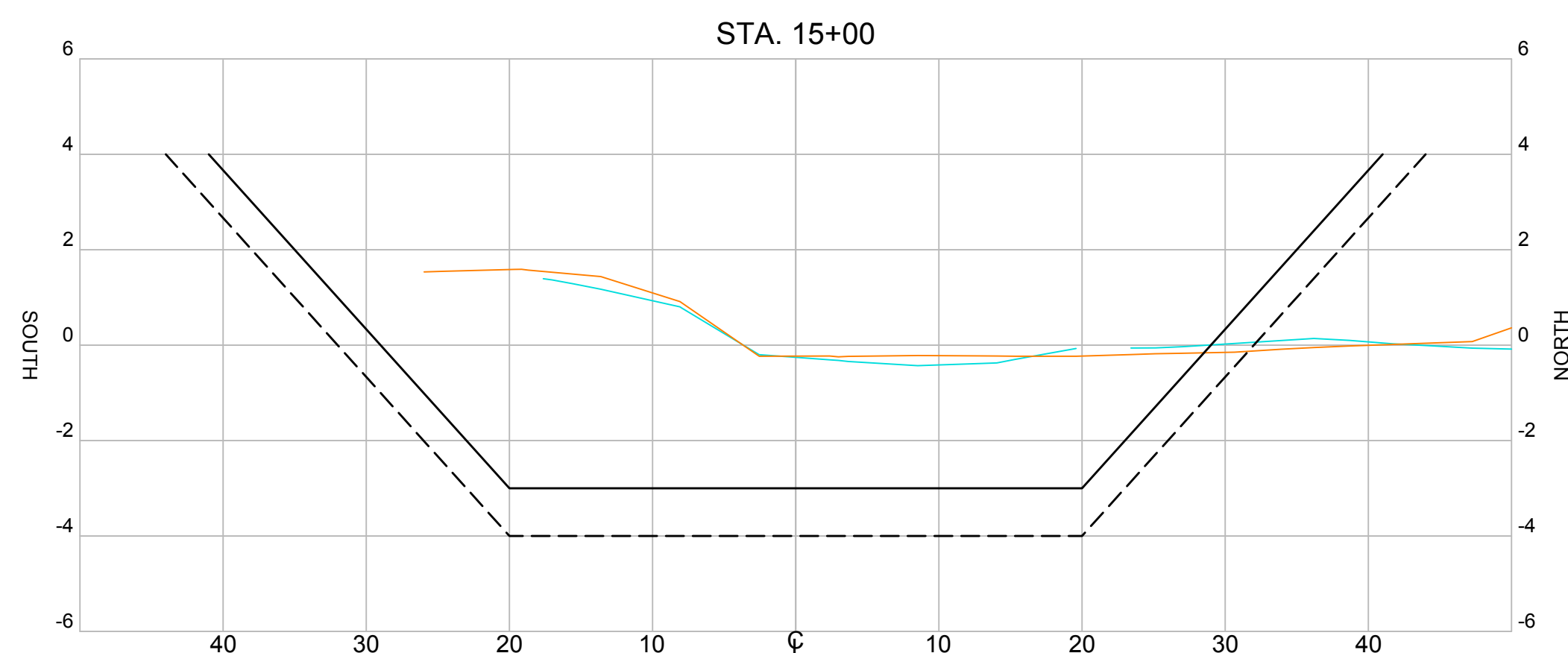
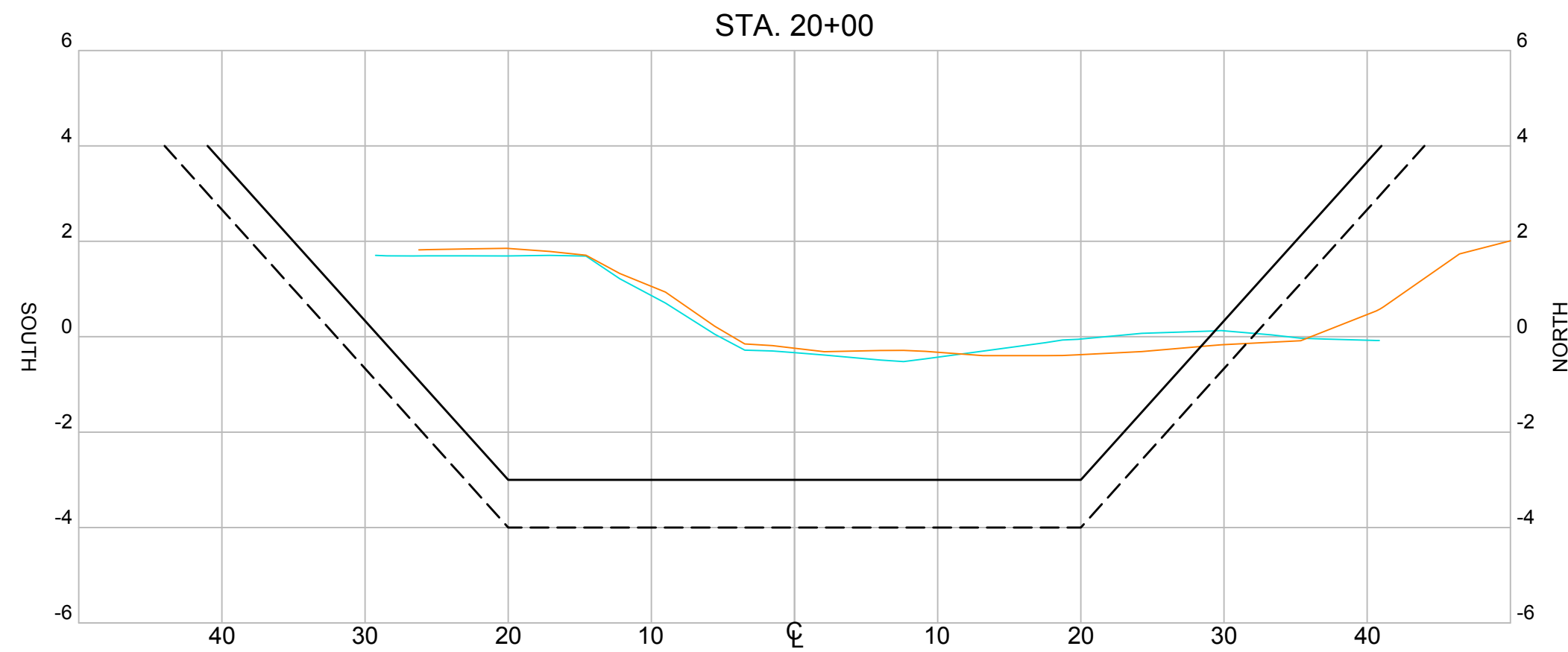
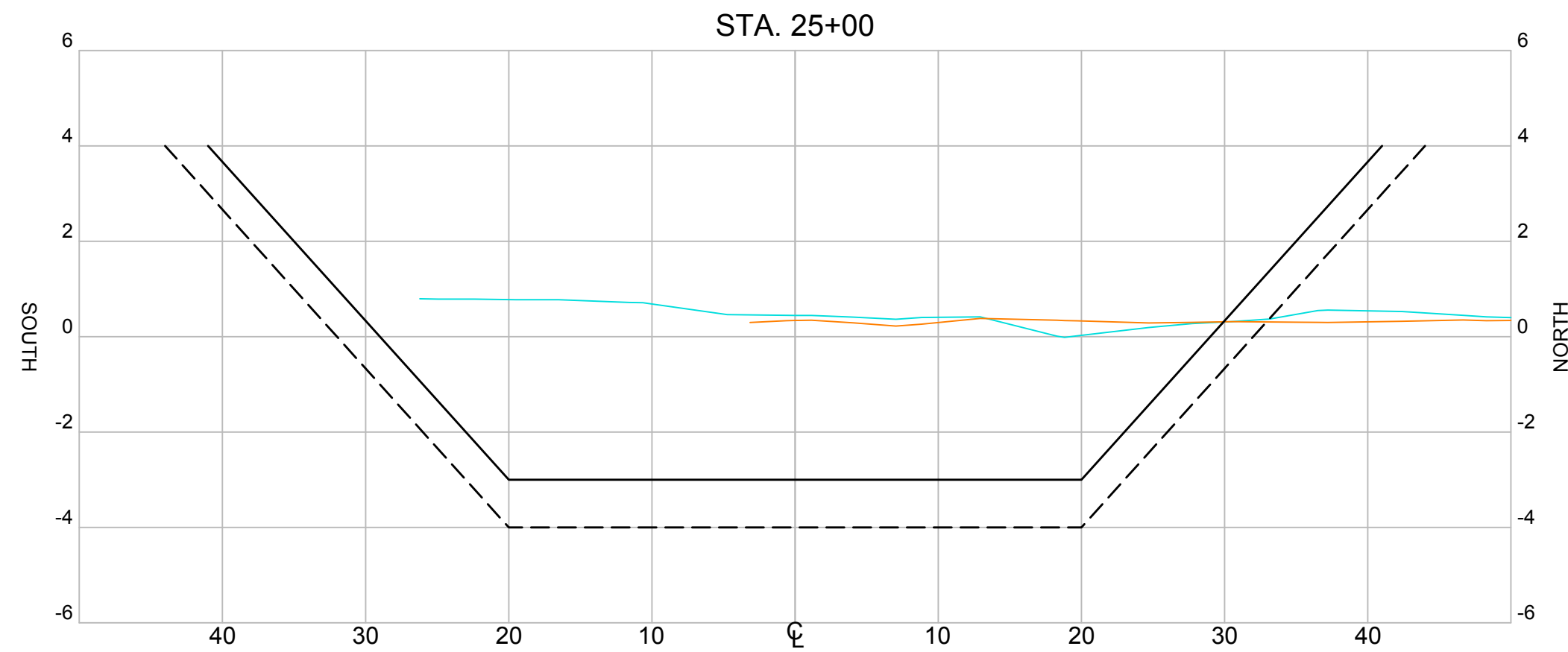
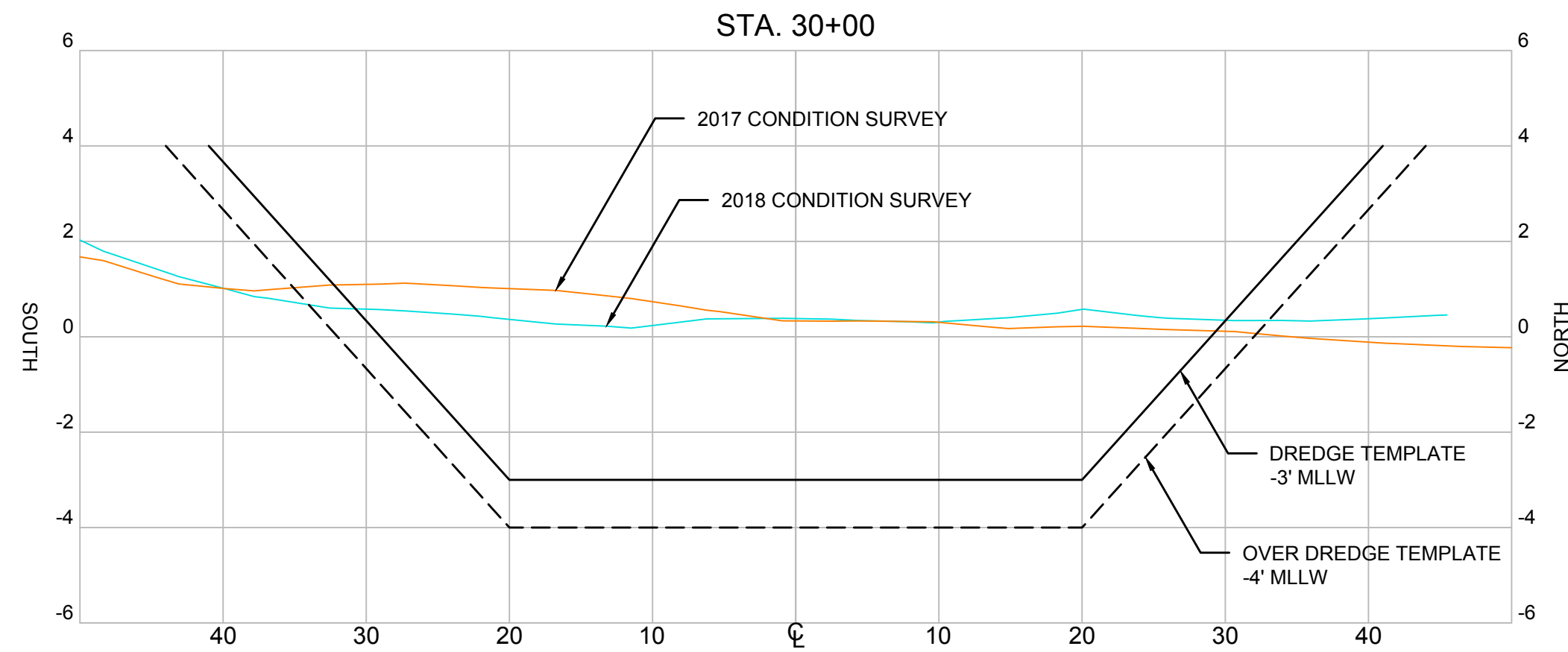
CHANNEL SITE PLAN AND CROSS SECTIONS
STA 52+00 TO 32+00

PROJECT ID: 18M113

SV-109
 SHEET 11 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'
 HORIZONTAL SCALE:
 0 10' 20'
 VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY: _____

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.

BY _____ DATE _____

NOVATO CREEK
2018 CONDITION HYDROGRAPHIC SURVEY
 BEL MARIN KEYS COMMUNITY SERVICES DISTRICT
 #4 MONTEGO KEY
 NOVATO, CA 94949

MARIN CALIFORNIA

	BY	DATE
SURVEYED		
DRAWN	TJM	MAY, 2019
DESIGNED		
CHECKED		

Foth
 Foth Infrastructure & Environment, LLC
 384 Bel Marin Keys Boulevard, Suite 140
 Novato, CA 94949
 Phone: 415.884.8011

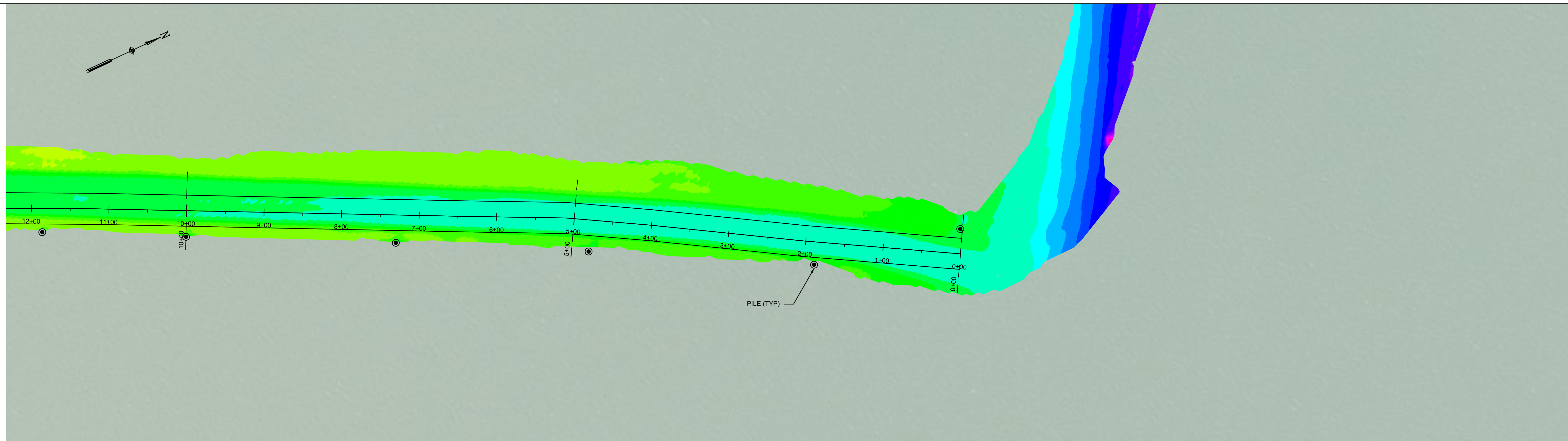
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 32+00 TO 12+00

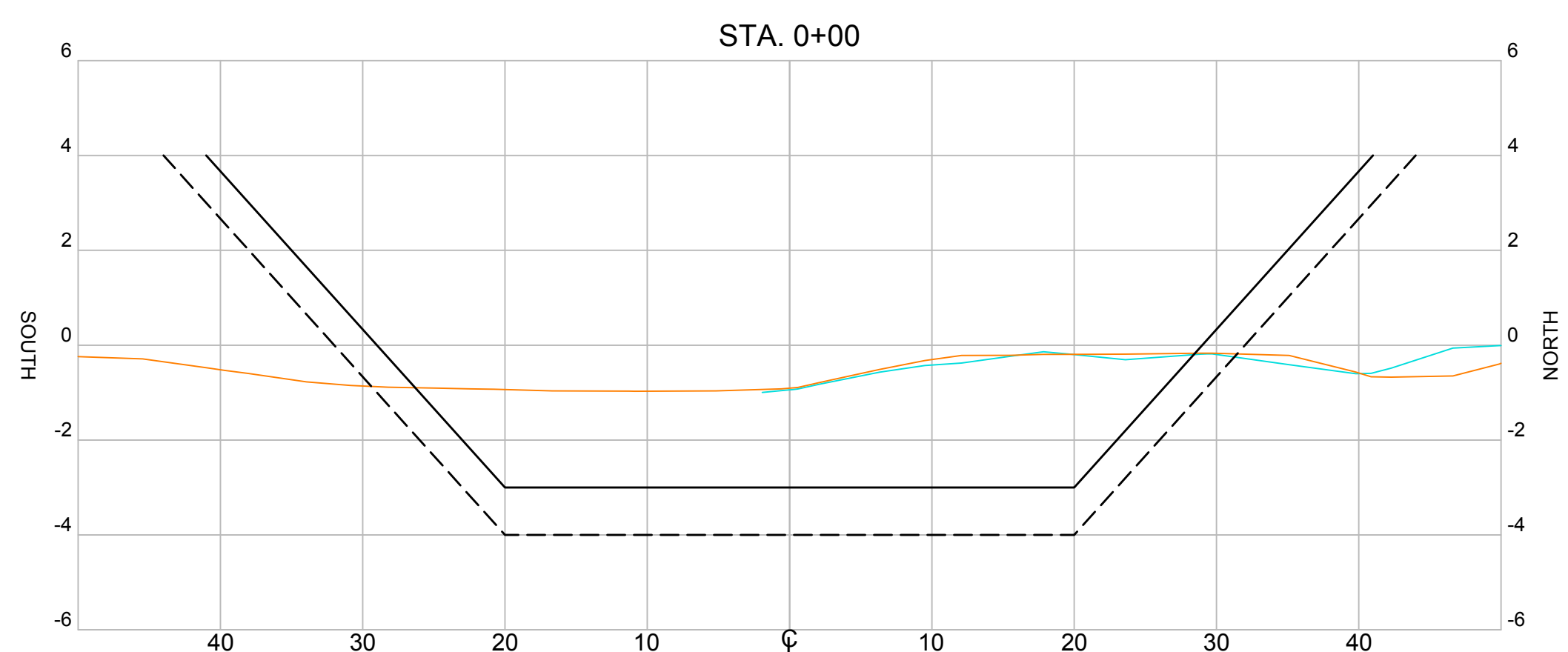
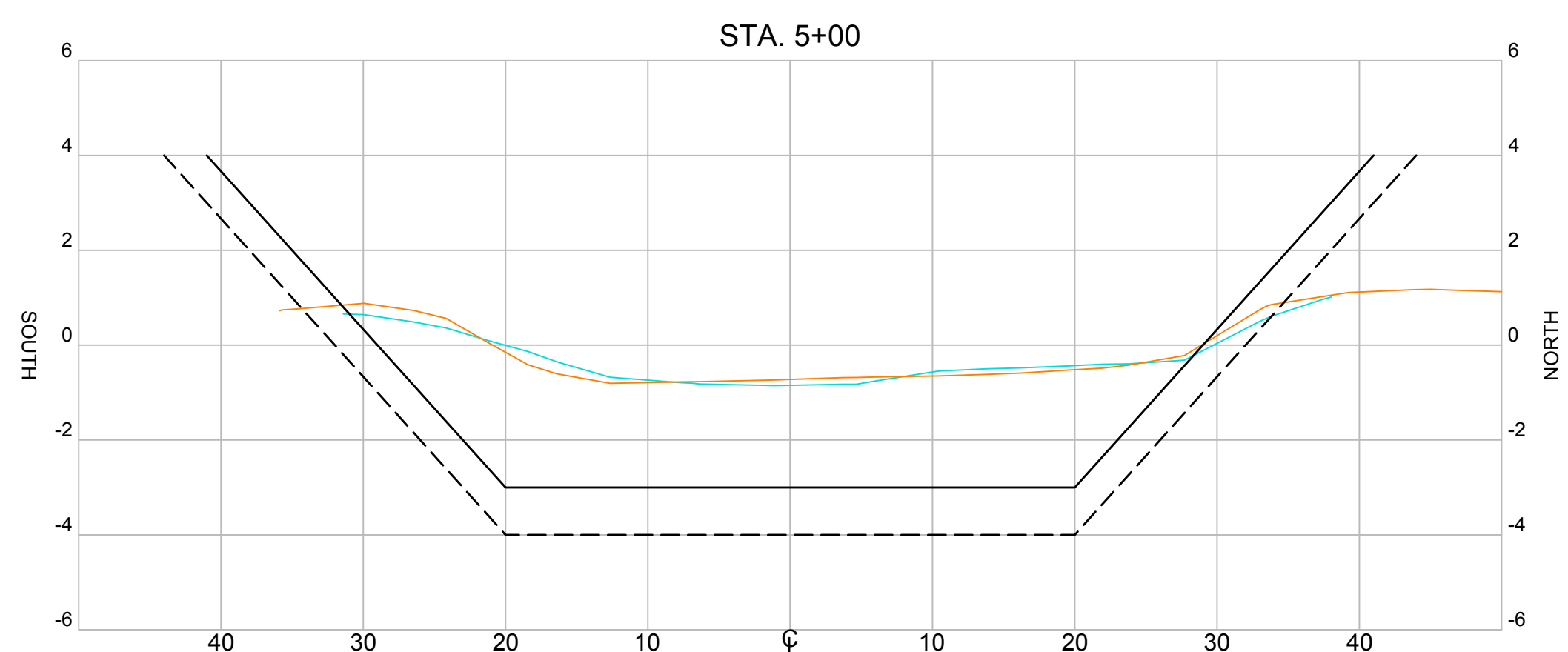
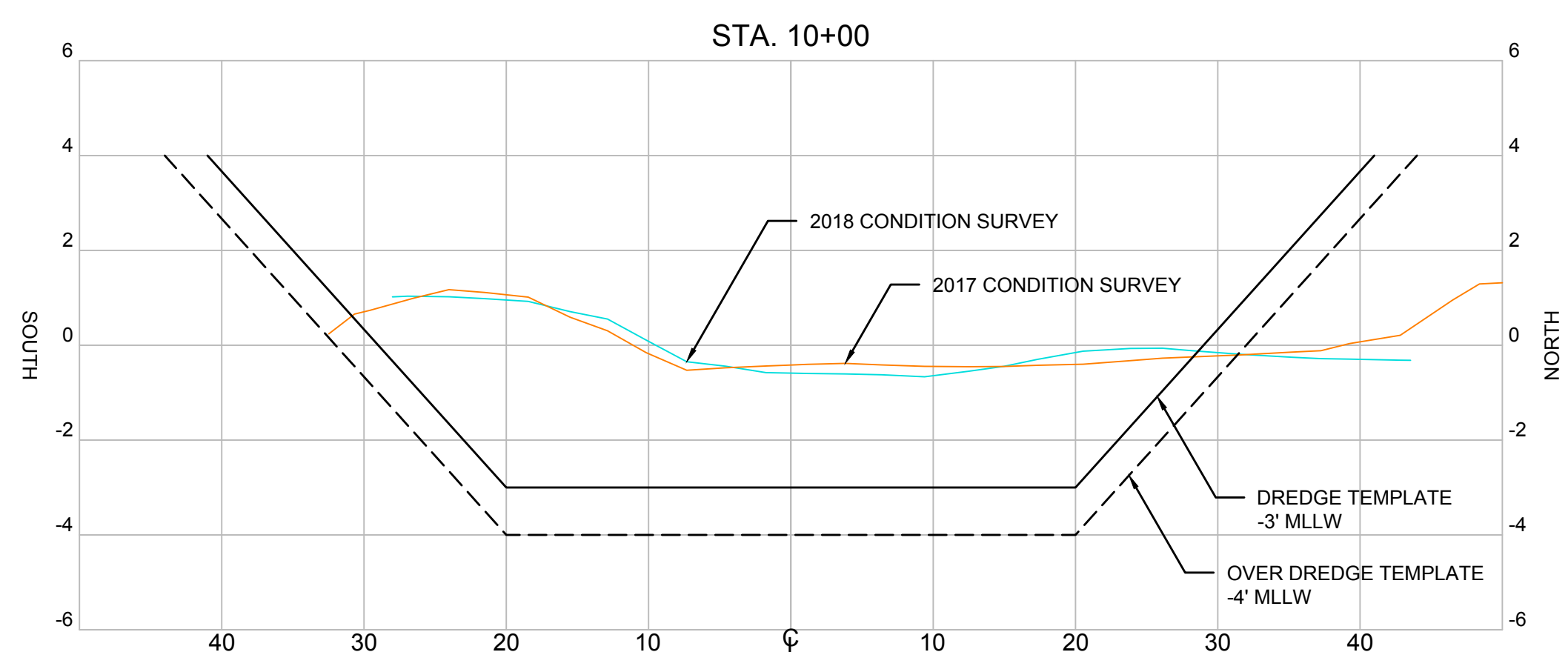
PROJECT ID: 18M113

SV-110

SHEET 12 OF 13



PLAN VIEW
 SCALE: 1" = 60'
 HORIZONTAL SCALE:
 0 60' 120'



SECTIONS
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 3'

HORIZONTAL SCALE:
 0 10' 20'

VERTICAL SCALE:
 0 3' 6'

REVISIONS			
NO.	BY	DATE	DESCRIPTION
△	A	A	A
△	A	A	A
△	A	A	A
△	A	A	A

RECORD DRAWING OF COMPLETED CONSTRUCTION BY:

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.
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 NOVATO, CA 94949

	BY	DATE
SURVEYED		
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CHANNEL SITE PLAN AND CROSS SECTIONS
STA 12+00 TO 0+00

PROJECT ID: 18M113

SV-111

SHEET 13 OF 13