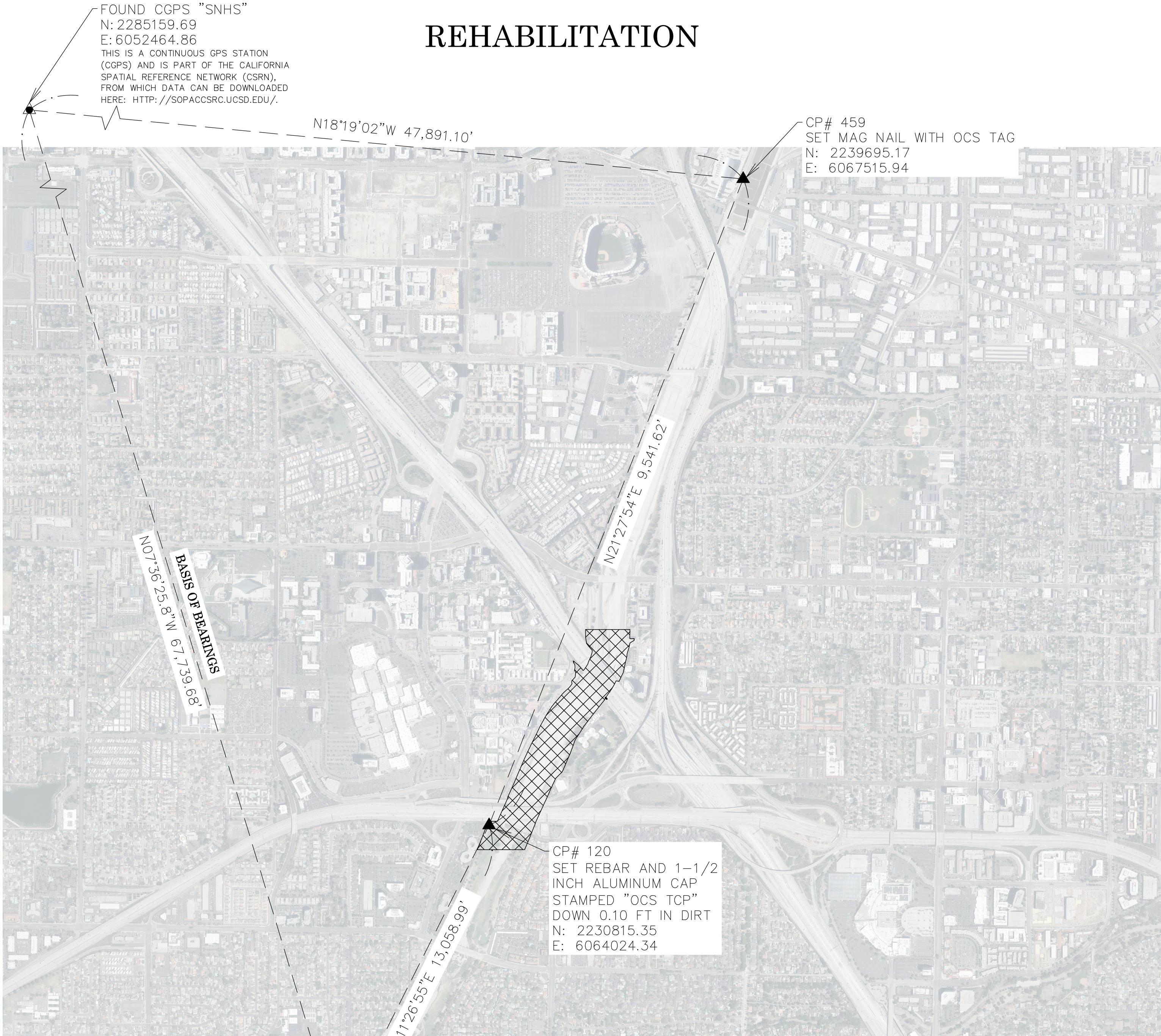
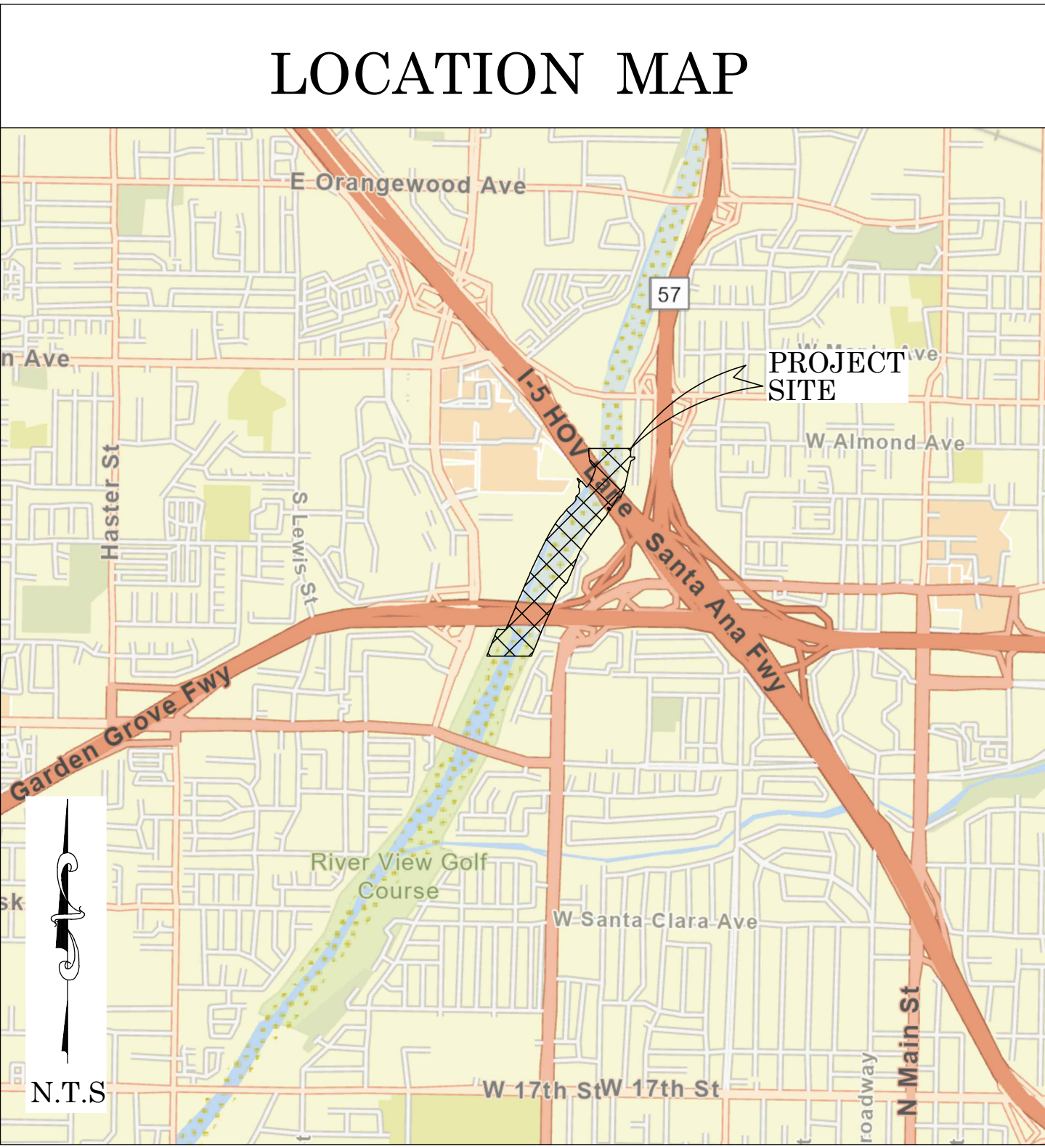




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
SANTA ANA RIVER REACH 5 (E01)



REHABILITATION



BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (SACY) AND (SNHS) BEING NORTH 07°36'26\"/>

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00001480.

THIS COMBINATION FACTOR WAS HELD AT: CP# 459
N: 2239695.166 E: 6067515.937 EL: 164.19'

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. 1L-56A-82 ELEV. = 177.316' YEAR LEVELED: 2006

NGVD 1929 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: FOUND 3 3/4\"/>

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES. A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED.

A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED. BOUNDARY AND RIGHT OF WAY LINES SHOWN WERE DERIVED FROM RECORD MAPS AND DOCUMENTS

THIS DATA SET WAS PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR 20 CM RMSE VERTICAL ACCURACY CLASS EQUATING TO NVA = + /- 39.2 CM AT 95% CONFIDENCE LEVEL AND VVA = + /- 60 CM AT THE 95% PERCENTILE.

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET	1	TITLE SHEET
SHEET	2	ALIGNMENT SHEET
SHEETS	3-6	TOPOGRAPHIC MAP
SHEETS	7-17	SECTIONS

BASIS OF STATIONING

THE BASIS FOR STATIONING IS STA 630+06.06 PER RECORD DRAWING E03-101-31R.

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR THIS PORTION OF CHANNEL.

SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 8 DAY OF AUGUST, 2023.

JESOM MORENO, PLS.

SENIOR LAND SURVEYOR



SENIOR LAND SURVEYOR STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 8 DAY OF AUGUST, 2023.

ELLIOTT MEDINA

ELLIOTT MEDINA, PLS.

SENIOR LAND SURVEYOR



U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

FOUND CGPS "SACY"
N: 2218016.19
E: 6061432.27
THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN), FROM WHICH DATA CAN BE DOWNLOADED HERE: [HTTP://SOPACCSRC.UCSD.EDU/](http://SOPACCSRC.UCSD.EDU/).

TOPOGRAPHIC MAPPING PROJECT

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
			TITLE SHEET				
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 1 of 17
			MAPPING		BY: J. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS.		
			FIELD CHECK		BY: E. HERTZ & CREW		
			SCALE: N.T.S.		FILE: #2223PW-FP0002		
			FILE: SAR_TOPO_2023.DWG				
REVISIONS							

CHAPMAN AVE.

END POINT
STA 638+78.27
N89°04'39"W
272.91'

D=7°30'33",
R=1999.97',
L=262.12'

SANTA ANA FREEWAY (INT-5)

BC
STA 636+16.15 636+00
635+00
634+00
633+00
632+00
631+00
NO 126°23'E 610.09'

EC
STA 630+06.06 630+00
BASIS OF STATIONING
629+00
628+00
627+00
626+00
625+00
624+00
D=11°15'10", R=1915.10', L=191.10'

SANTA ANA RIVER (E01)

GARDEN GROVE
FREEWAY (SR-22)

MEMORY LANE

BASIS OF STATIONING

THE BASIS FOR STATIONING IS STA 630+06.06 PER RECORD DRAWING E03-101-31R.

THE ALIGNMENT SHOWN HEREON WAS DERIVED BY HOLDING RECORD DATA

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION			
			ALIGNMENT SHEET			
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)			
			DATE OF SURVEY: APRIL 2023		B.Y.E. HERTZ & CREW	
			MAPPING		B.Y.I. ISLAS	
			OFFICE CHECK		B.Y.J. MORENO, PLS	
			FIELD CHECK		B.Y.E. HERTZ & CREW	
			SCALE: 200'		W.O. #EQ22004P	
			FILE: SAR_ALIGNMENT_2023.DWG		FILE # 2223PW-FP0002	
MARK	DATE	ITEM			SHEET NO.	
REVISIONS				2 of 17		



GARDEN GROVE FWY (22)

SR-22 ON-RAMP

SEE SHEET 4

NOTES
A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED. BOUNDARY AND RIGHT OF WAY LINES SHOWN WERE DERIVED FROM RECORD MAPS AND DOCUMENTS.

SYMBOL

- Control Box Undefined
- Control Point
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Sewer
- Post
- Pull Box Irrigation
- Sign Board
- Sign Post
- Tree
- Utility Warning Sign
- Valve Irrigation
- Valve Water
- Vault Undefined
- Water Line Appurtenance-Air Release

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel
- Rip Rap

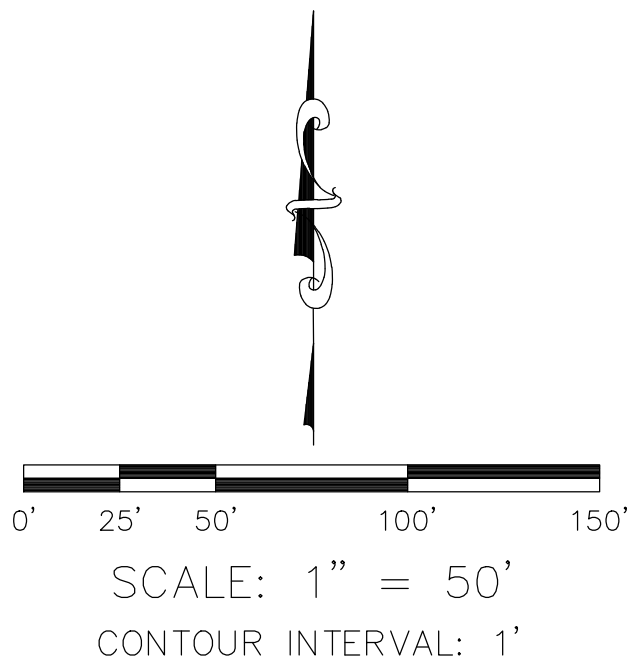
LINE PATTERN KEY

- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Wrought Iron
- Grade Line
- Hinge Point
- Mow Strip
- Right of Way
- Roof Overhang

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
INV	Invert
RD	Road
TC	Top of Curb

SEE SHEET 2



U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		SANTA ANA RIVER REACH 5 (E01) REHABILITATION			
		TOPOGRAPHIC MAP			
		PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)			
		DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW	
		MAPPING		BY: I. ISLAS	
		OFFICE CHECK		BY: J. MORENO, PLS	
		FIELD CHECK		BY: E. HERTZ & CREW	
		SCALE: 1"=50'		W.O. #E022004P	
		FILE: SAR_TOPO_2023.DWG		FILE # 2223PW-FP0002	
MARK	DATE	ITEM	REVISIONS		
SHEET NO. 3 of 17					

SEE SHEET 5

THEO LACY FACILITY
(PARKING AREA)

SANTA ANA RIVER (E01)

SR-22 ON-RAMP

GARDEN GROVE FWY (22)

CP# 6
FD MAG NAIL WITH PAINTED
AERIAL TARGET FLUSH IN AC
N: 2231388.66
E: 6064829.62
EL: 130.99'

NOTES

A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED. BOUNDARY AND RIGHT OF WAY LINES SHOWN WERE DERIVED FROM RECORD MAPS AND DOCUMENTS.

LEGEND

SYMBOL

- Control Box Undefined
- Control Point
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Manhole Sewer
- Post
- Pull Box Irrigation
- Sign Board
- Sign Post
- Tree
- Utility Warning Sign
- Valve Irrigation
- Valve Water
- Vault Undefined
- Water Line Appurtenance-Air Release

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel
- Rip Rap

LINE PATTERN KEY

- Block Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Wrought Iron
- Grade Line
- Hinge Point
- Mow Strip
- Right of Way
- Roof Overhang

ABBREVIATION

- AC Asphalt Concrete
- CL Centerline
- CONC Concrete
- CP Control Point
- EL Elevation
- INV Invert
- RD Road
- TC Top of Curb

SEE SHEET 3

U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

0' 25' 50' 100' 150'

SCALE: 1" = 50'

CONTOUR INTERVAL: 1'

COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

SANTA ANA RIVER REACH 5 (E01)
REHABILITATION

TOPOGRAPHIC MAP

PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA

RIVER (E01)

DATE OF SURVEY: APRIL 2023

MAPPING

OFFICE CHECK

FIELD CHECK

SCALE: 1"=50'

FILE: #2233PW-FP0002

BY: E. HERTZ & CREW

BY: J. ISLAS

BY: J. MORENO, PLS

BY: E. HERTZ & CREW

W.O. #E022004P

FILE: #2233PW-FP0002

SHEET NO.

4

of

17



THEO LACY FACILITY
(PARKING AREA)

SEE SHEET 6

NOTES
A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED. BOUNDARY AND RIGHT OF WAY LINES SHOWN WERE DERIVED FROM RECORD MAPS AND DOCUMENTS.

SYMBOL

Control Box Undefined

Control Point

Gate, Single

Grate Inlet

Guy Wire Anchor

Manhole Sewer

Post

Pull Box Irrigation

Sign Board

Sign Post

Tree

Utility Warning Sign

Valve Irrigation

Valve Water

Vault Undefined

Water Line Appurtenance-Air Release

LINE PATTERN KEY

Block Wall

Edge of Concrete

Edge of Asphalt Pavement

Exposed Pipe

Fence Chainlink

Fence Wrought Iron

Grade Line

Hinge Point

Mow Strip

Right of Way

Roof Overhang

AREA PATTERN KEY

Concrete

Dirt

Grass

Gravel

Rip Rap

ABBREVIATION

AC Asphalt Concrete

CL Centerline

CONC Concrete

CP Control Point

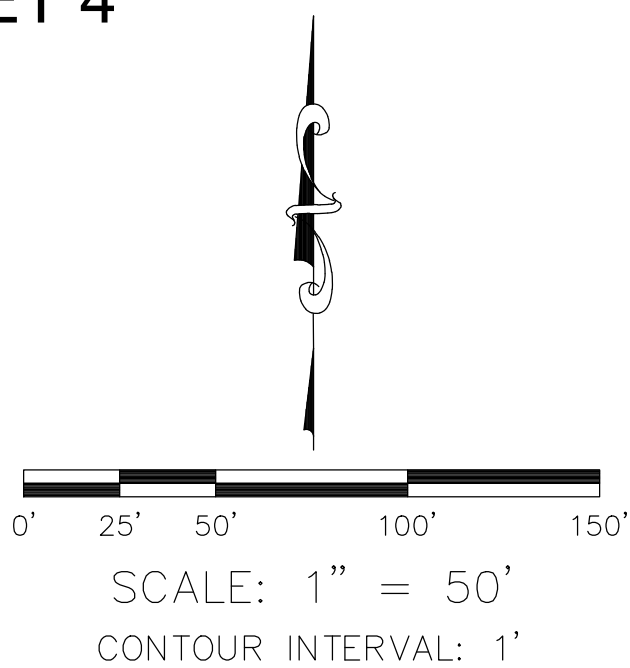
EL Elevation

INV Invert

RD Road

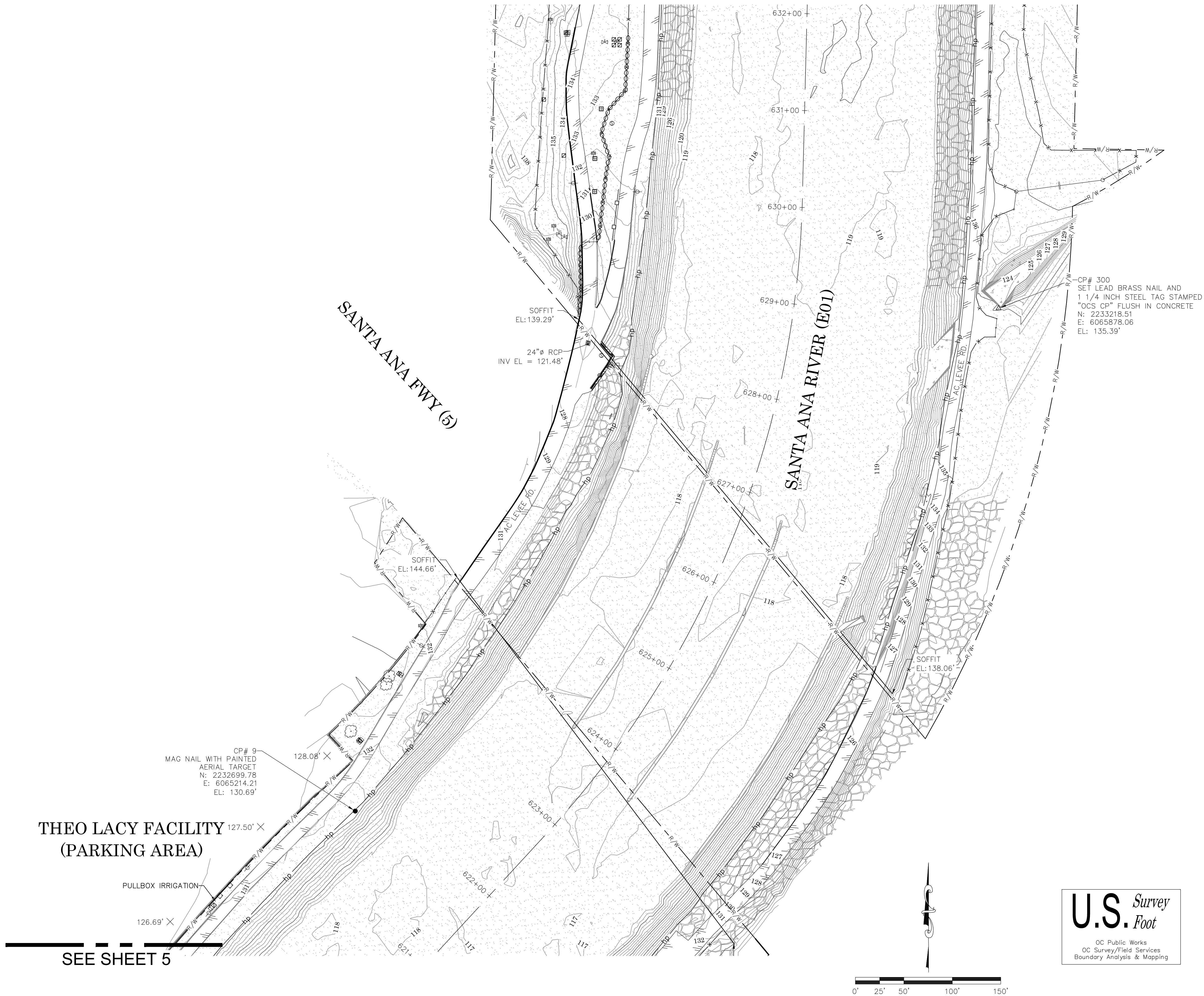
TC Top of Curb

SEE SHEET 4



U.S. Survey
Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)			
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW	
			MAPPING		BY: J. ISLAS	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: E. HERTZ & CREW	
			SCALE: 1"=50'		W.O. #EQ22004P	FILE #2223PW-FP0002
			FILE: SAR_TOPO_2023.DWG			
MARK	DATE	ITEM	REVISIONS			



NOTES
A BOUNDARY SURVEY OR TITLE SEARCH WAS NOT PERFORMED. BOUNDARY AND RIGHT OF WAY LINES SHOWN WERE DERIVED FROM RECORD MAPS AND DOCUMENTS.

SYMBOL

AREA PATTERN KEY

LINE PATTERN KEY

ABBREVIATION
AC Asphalt Concrete
CL Centerline
CONC Concrete
CP Control Point
EL Elevation
INV Invert
RD Road
TC Top of Curb

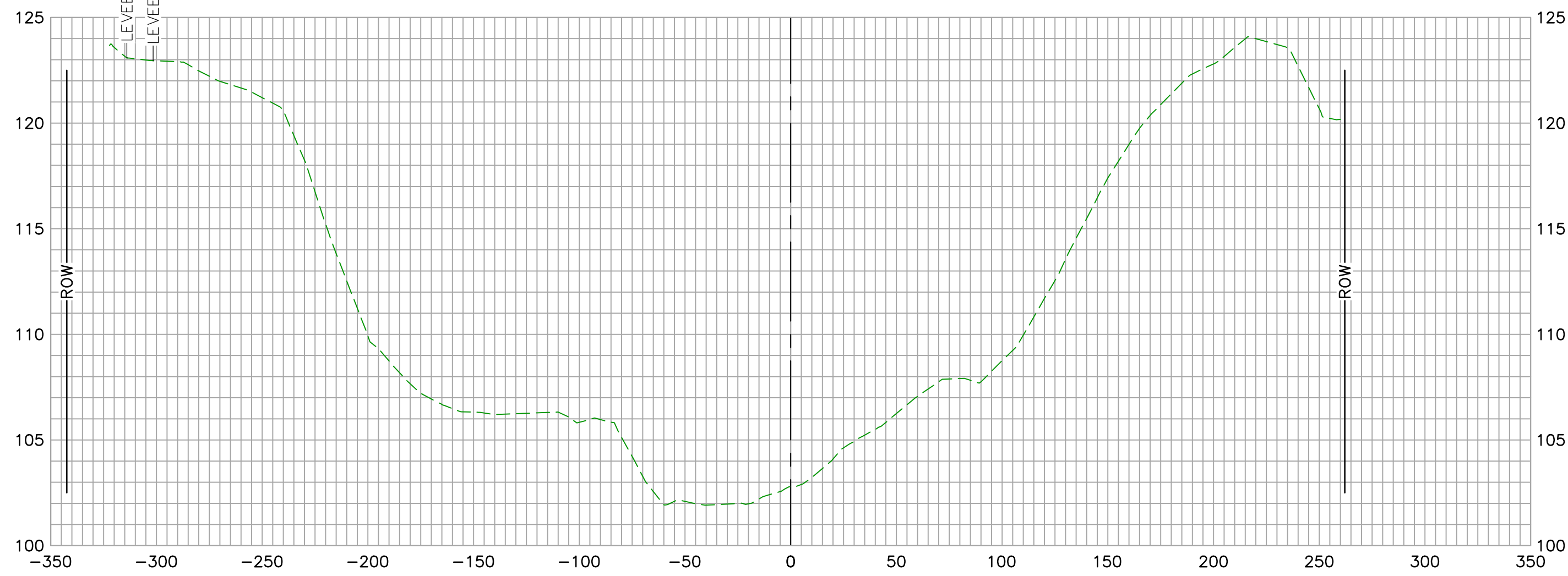
U.S. Survey

Foot

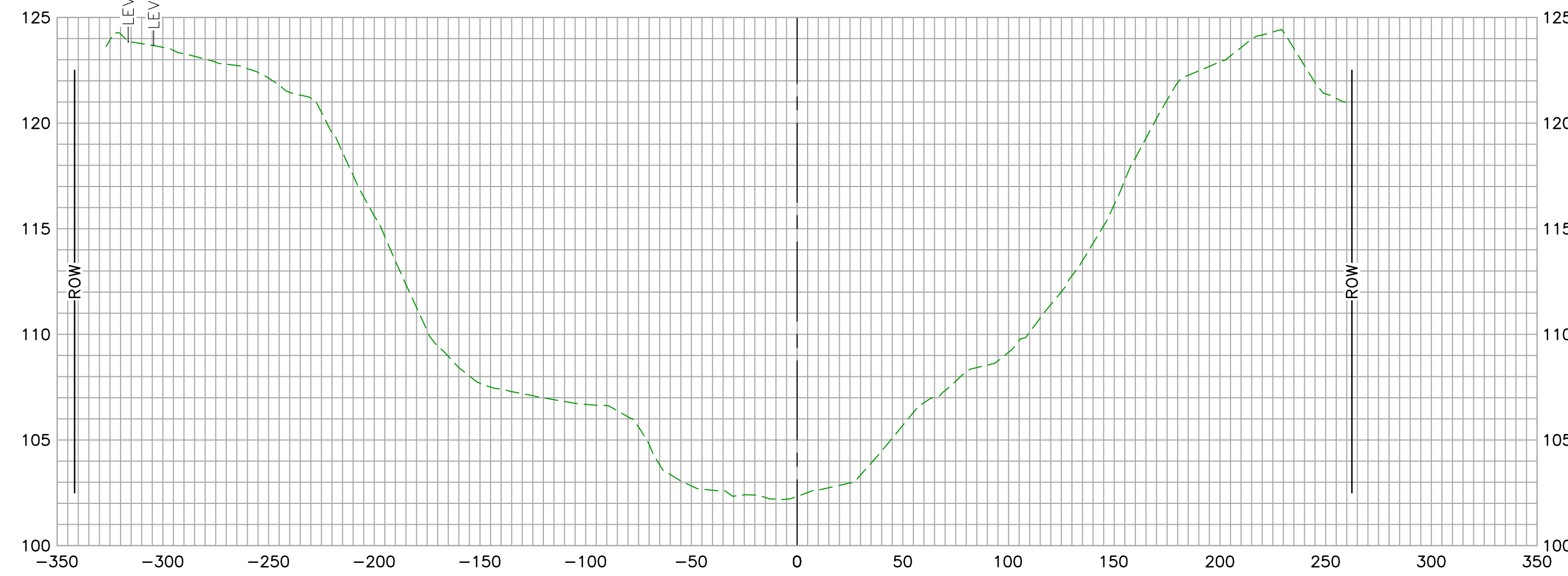
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 6 of 17
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ & CREW		
			SCALE: 1"=50'		W.O. #E022004P		
			MARK	DATE	ITEM	FILE # 2223PW-FP0002	
REVISIONS			FILE: SAR_TOPO_2023.DWG				

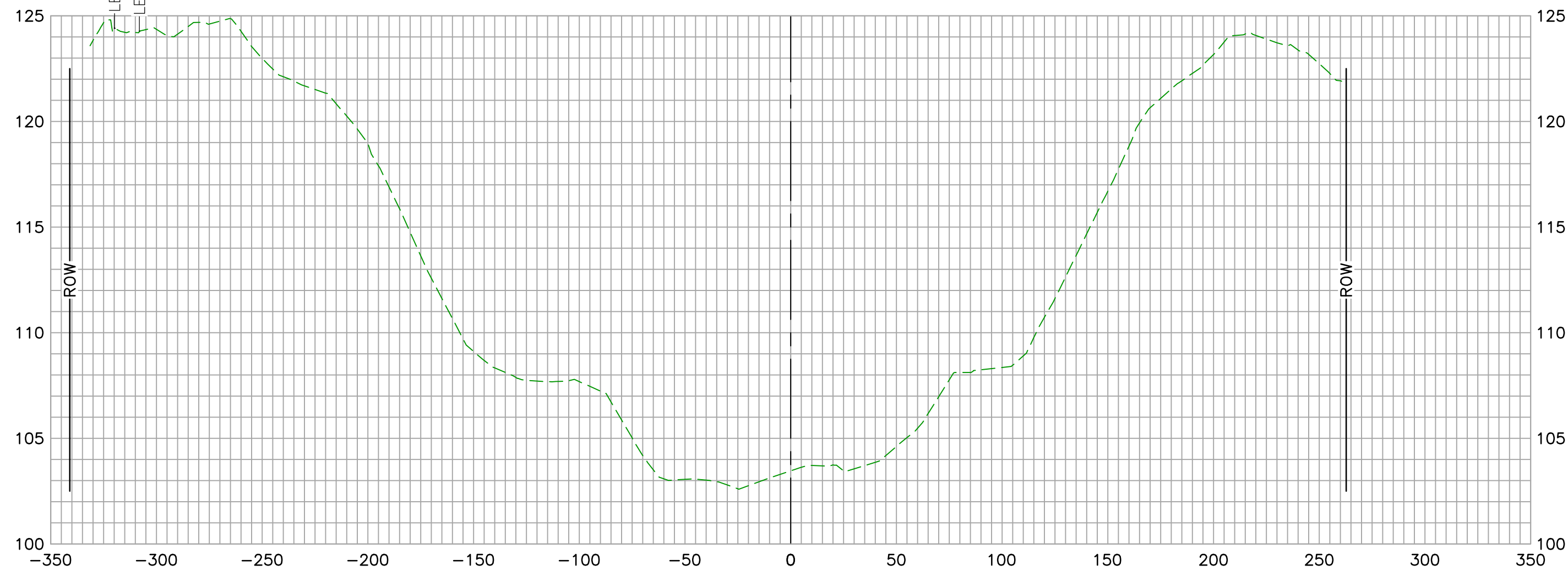
SANTA ANA RIVER CHANNEL (E01)
594+00.00
CL



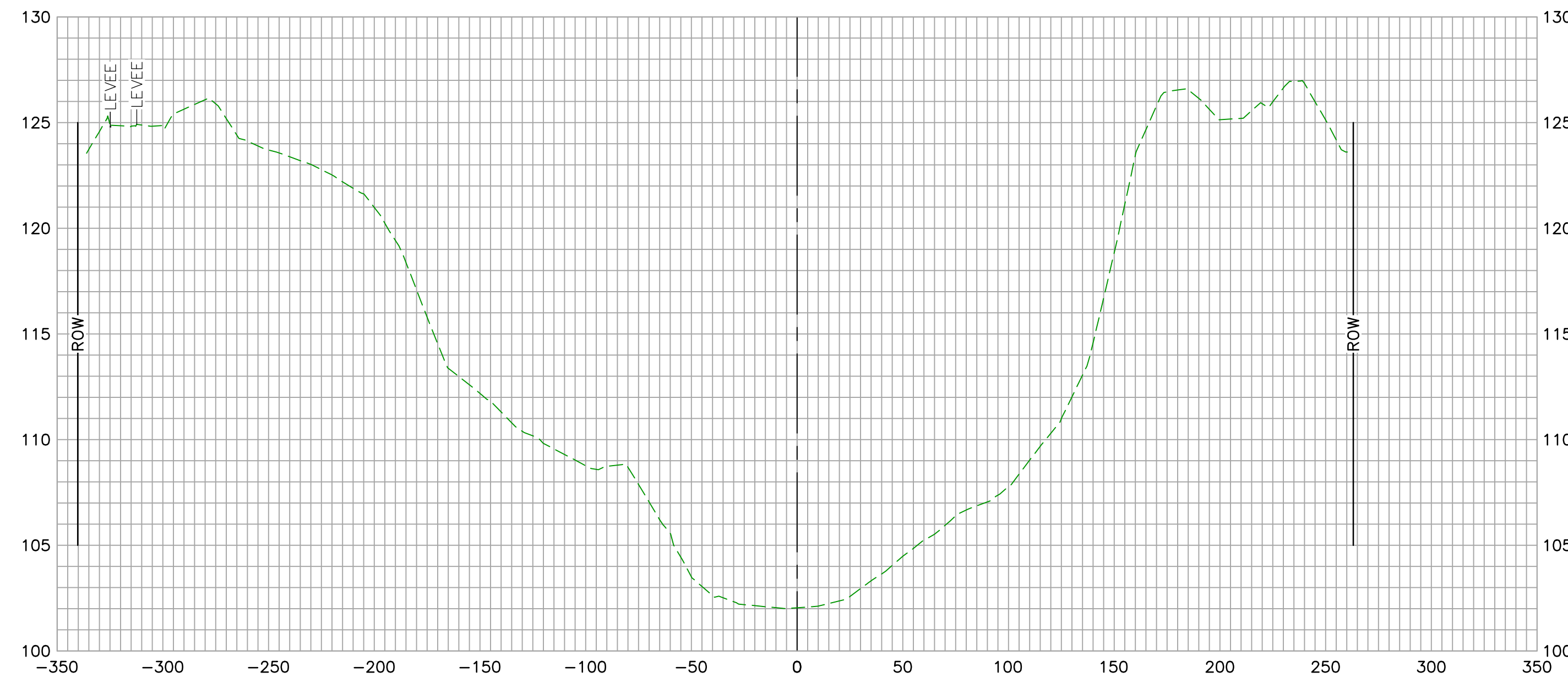
SANTA ANA RIVER CHANNEL (E01)
595+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
596+00.00
CL



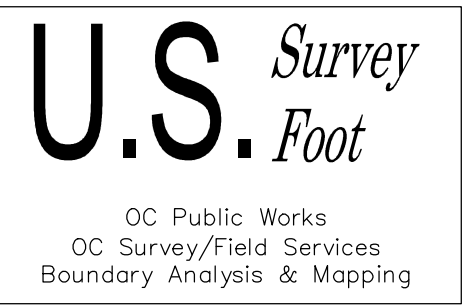
SANTA ANA RIVER CHANNEL (E01)
597+00.00
CL



EXISTING SURFACE 2023
SOFFIT

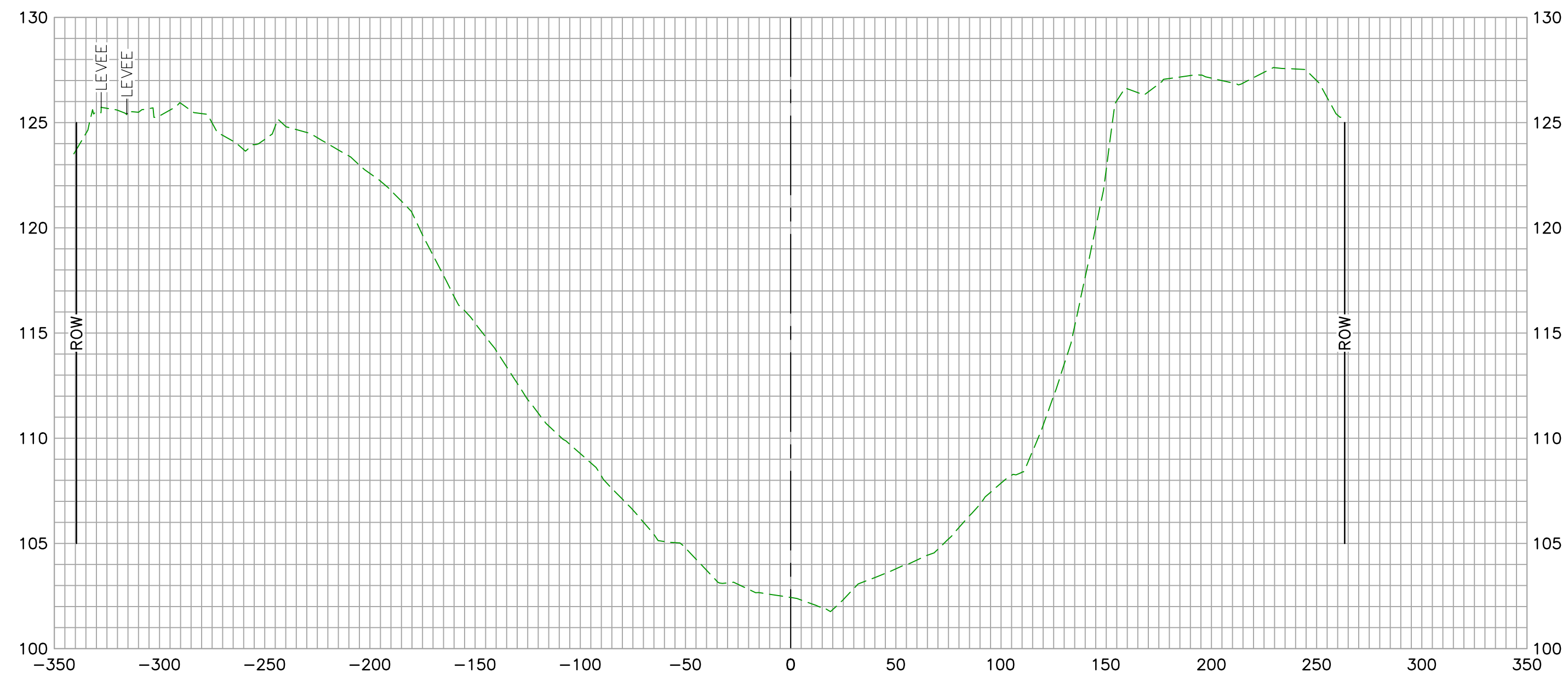
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION		
			SECTIONS		
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)		
			DATE OF SURVEY: APRIL 2023	BY: E. HERTZ & CREW	SHEET NO. 7 of 19
			MAPPING	BY: I. ISLAS	
			OFFICE CHECK	BY: J. MORENO, PLS	
			FIELD CHECK	BY: E. HERTZ & CREW	
MARK	DATE	ITEM	SCALE: 1"=50'	W.O. #EQ22004P	FILE #----
REVISIONS			FILE: SAR_SECTIONS_2023.DWG		

SANTA ANA RIVER CHANNEL (E01)
598+00.00
CL



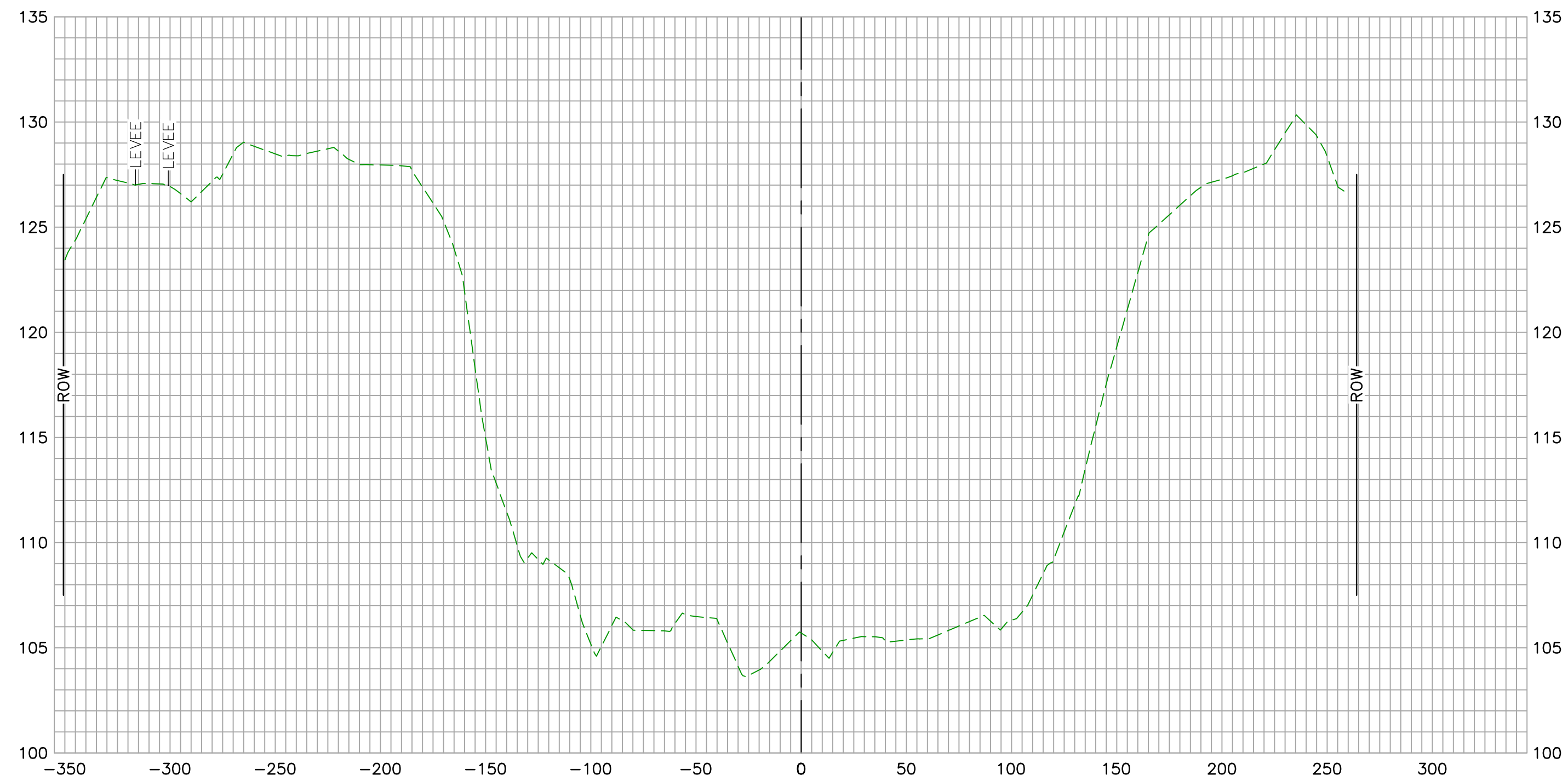
SANTA ANA RIVER CHANNEL (E01)
599+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
601+00.00
CL

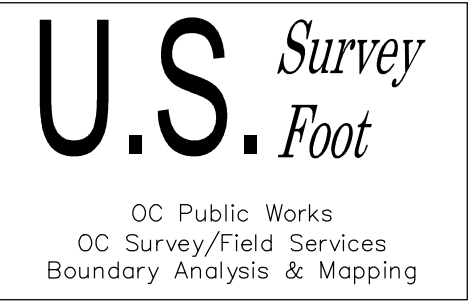


SANTA ANA RIVER CHANNEL (E01)
600+00.00
CL



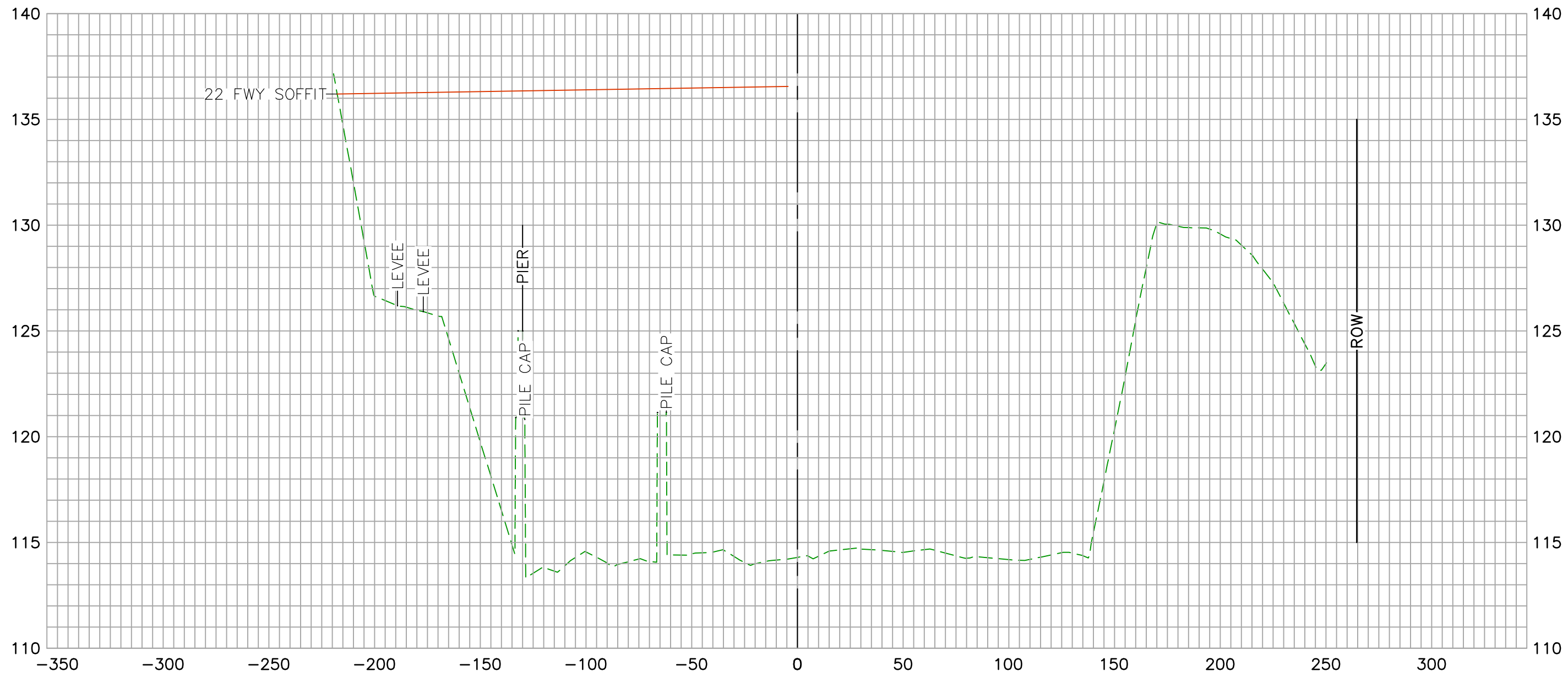
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

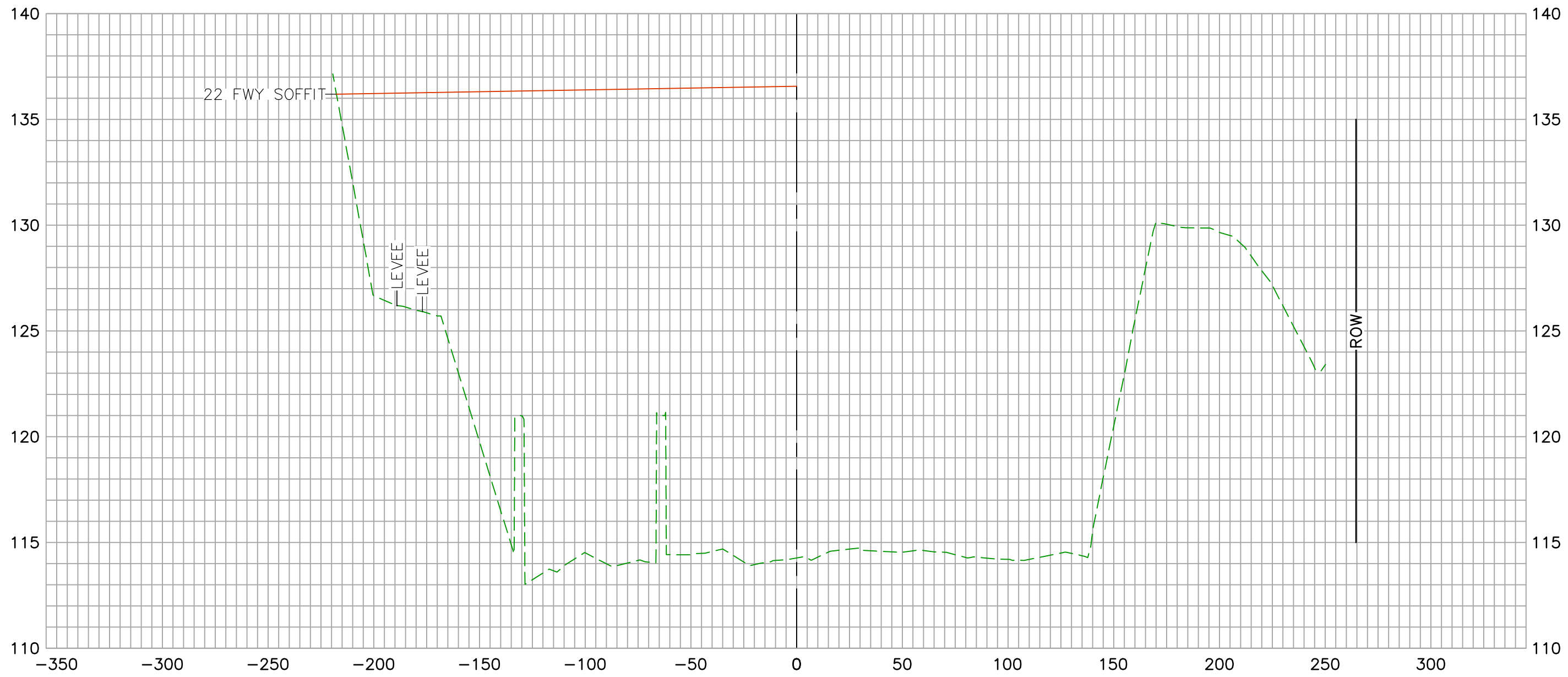


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION		
			SECTIONS		
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA		
			RIVER (E01)		
			DATE OF SURVEY: APRIL 2023	BY: E. HERTZ & CREW	SHEET NO. 8 of 26
			MAPPING	BY: J. ISLAS	
			OFFICE CHECK	BY: J. MORENO, PLS	
			FIELD CHECK	BY: E. HERTZ & CREW	
			SCALE: 1"=50'	W.O. #E022004P	FILE #----
			FILE: SAR_SECTIONS_2023.DWG		
MARK	DATE	ITEM			
REVISIONS					

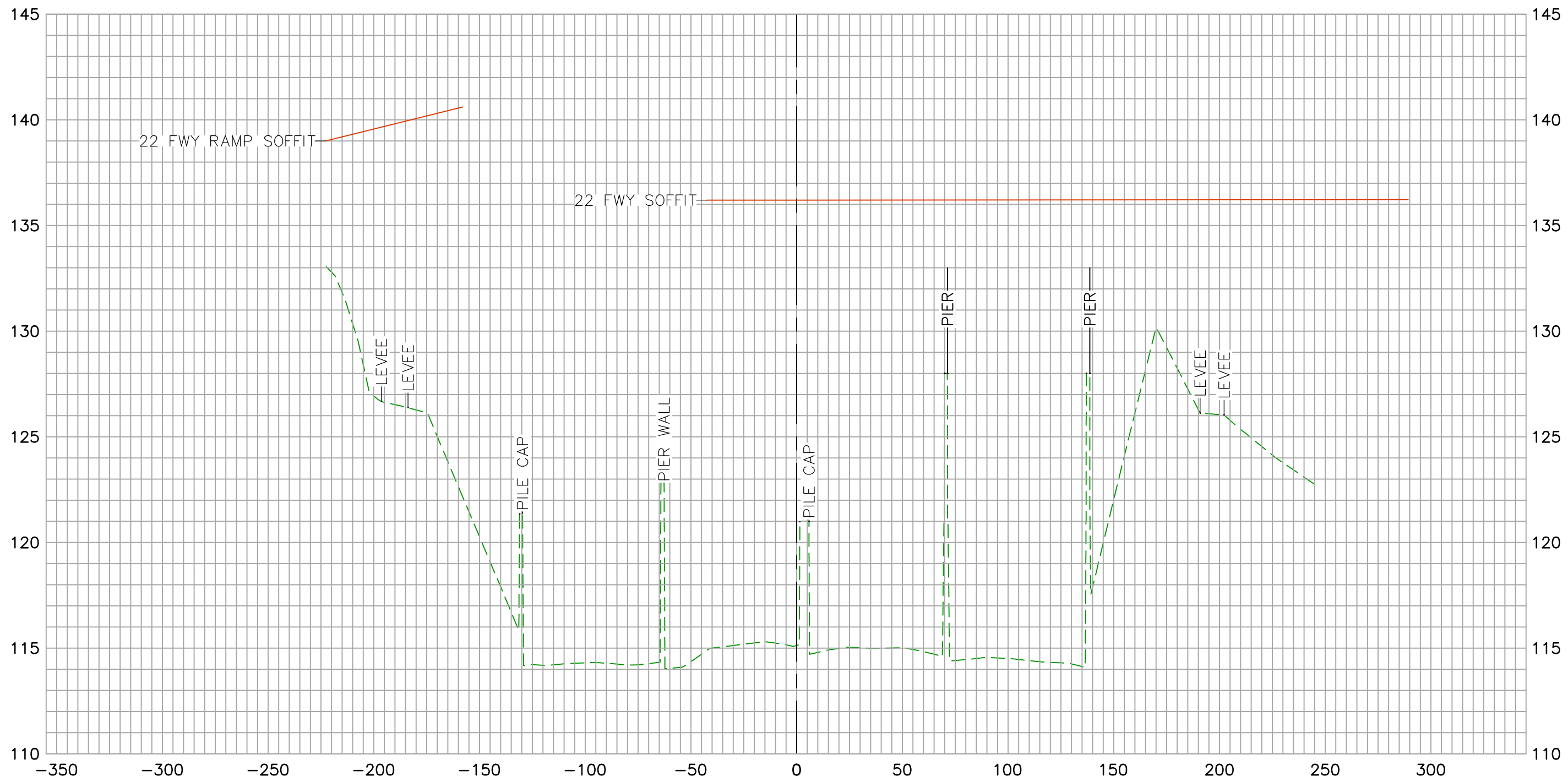
SANTA ANA RIVER CHANNEL (E01)
602+00.00
CL



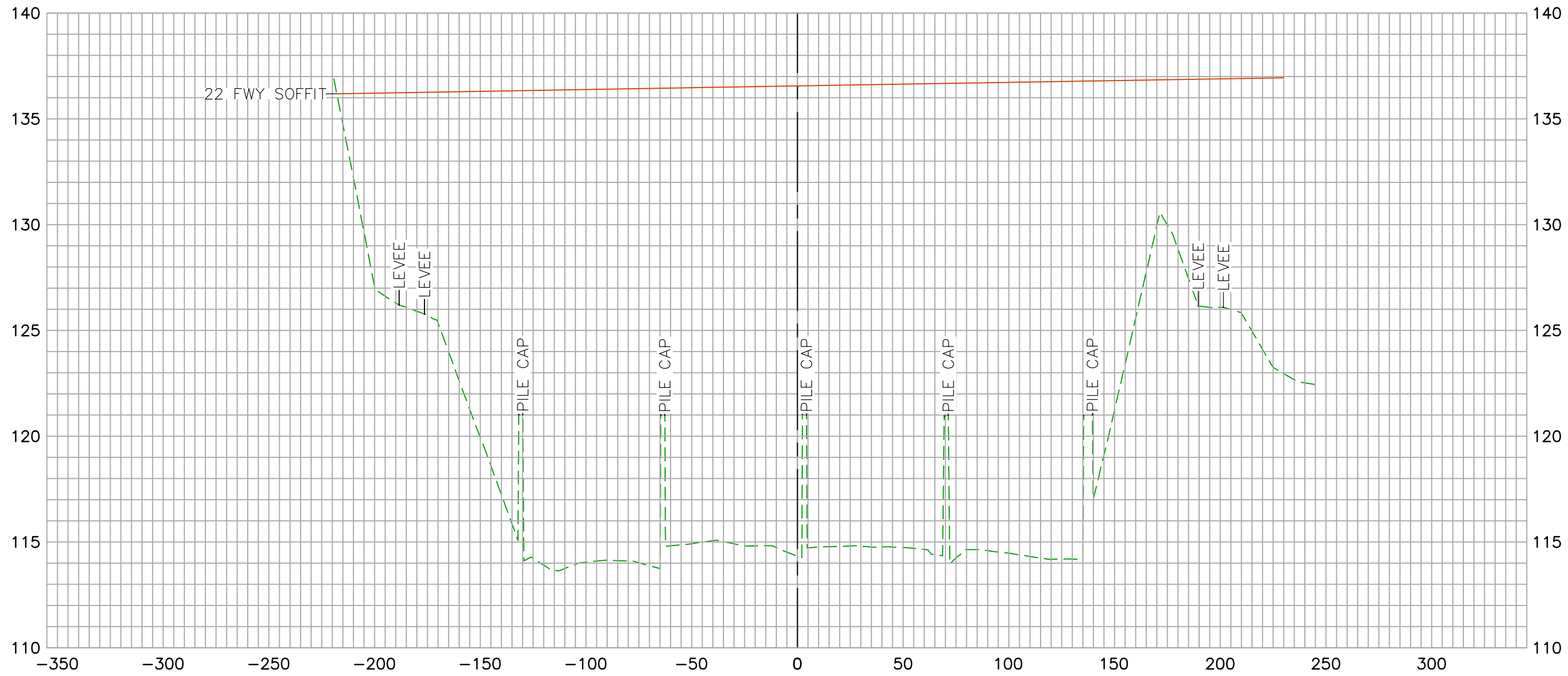
22 FREEWAY BRIDGE BEGIN STATION
SANTA ANA RIVER CHANNEL (E01)
602+01.86
CL



SANTA ANA RIVER CHANNEL (E01)
604+00.00
CL

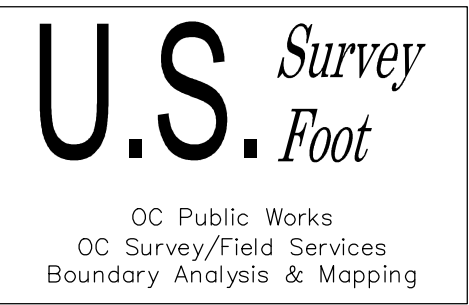


SANTA ANA RIVER CHANNEL (E01)
603+00.00
CL



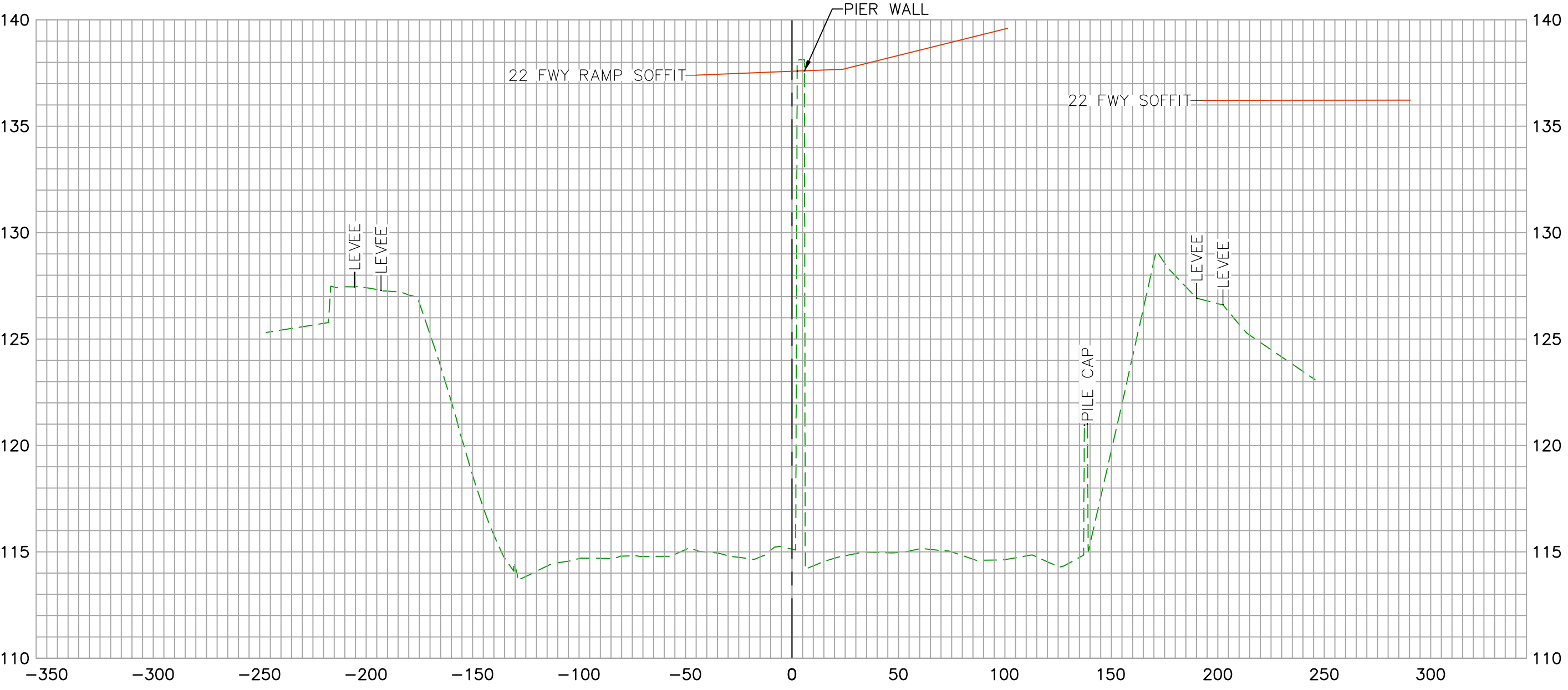
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

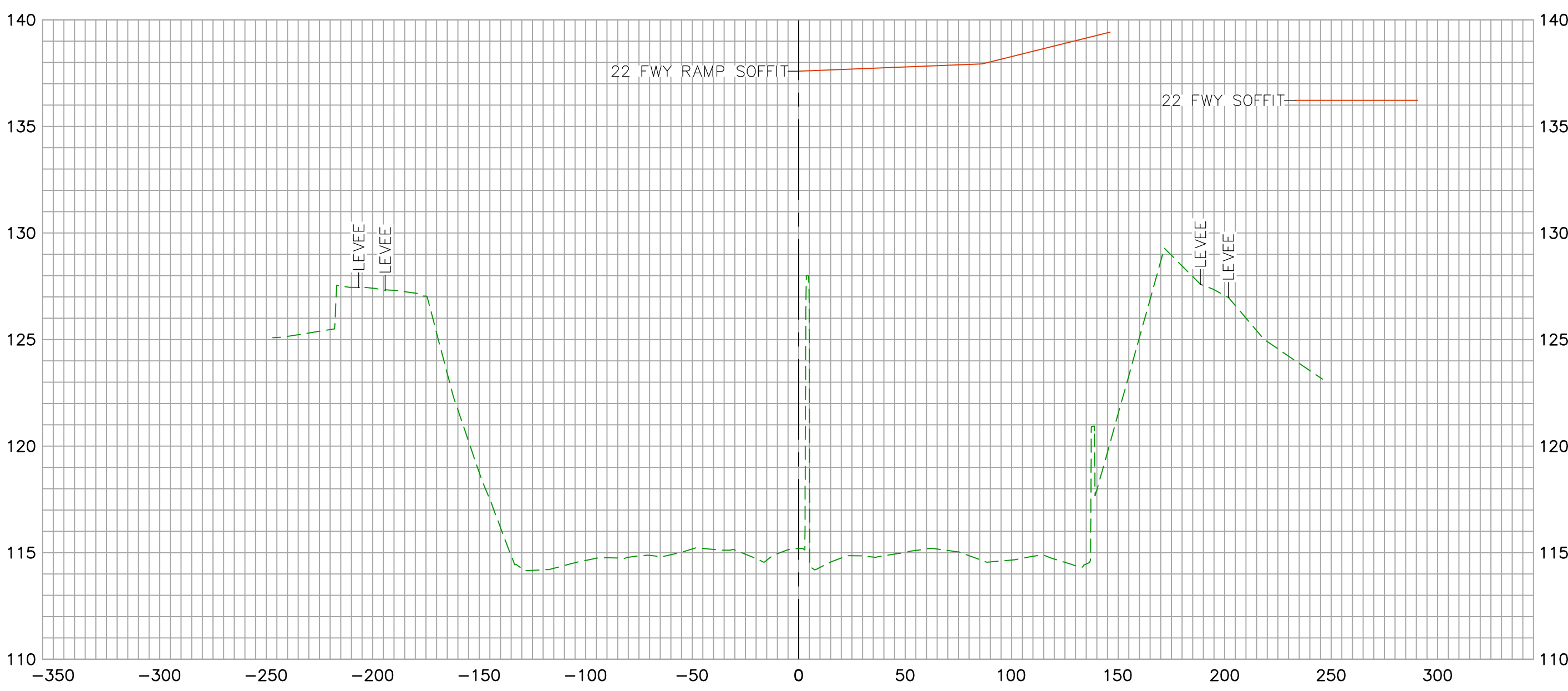


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION			
			SECTIONS			
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)			
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW	
			MAPPING		BY: J. ISLAS	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: E. HERTZ & CREW	
			SCALE: 1"=50'		W.O. #E022004P	
			FILE: SAR_SECTIONS_2023.DWG			
MARK	DATE	ITEM	REVISIONS			

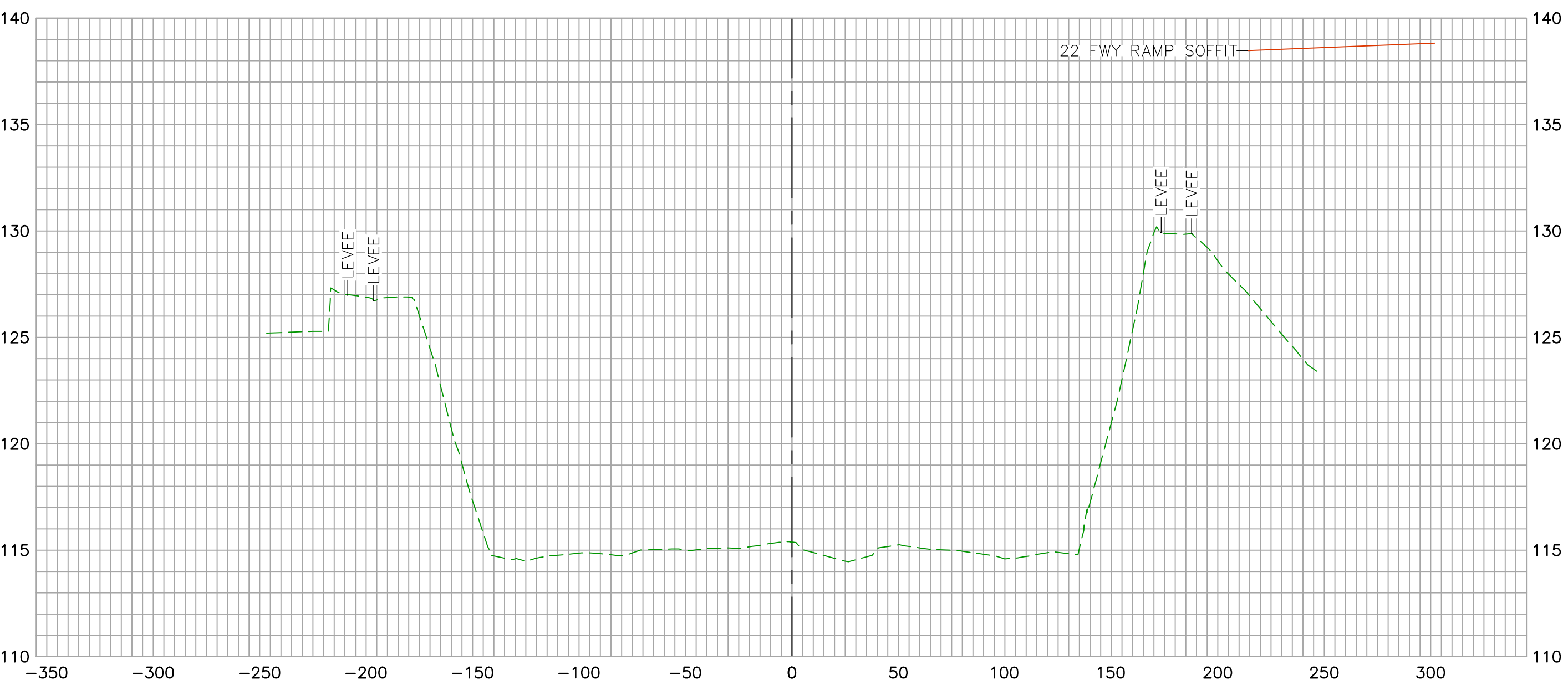
SANTA ANA RIVER CHANNEL (E01)
605+00.00
CL



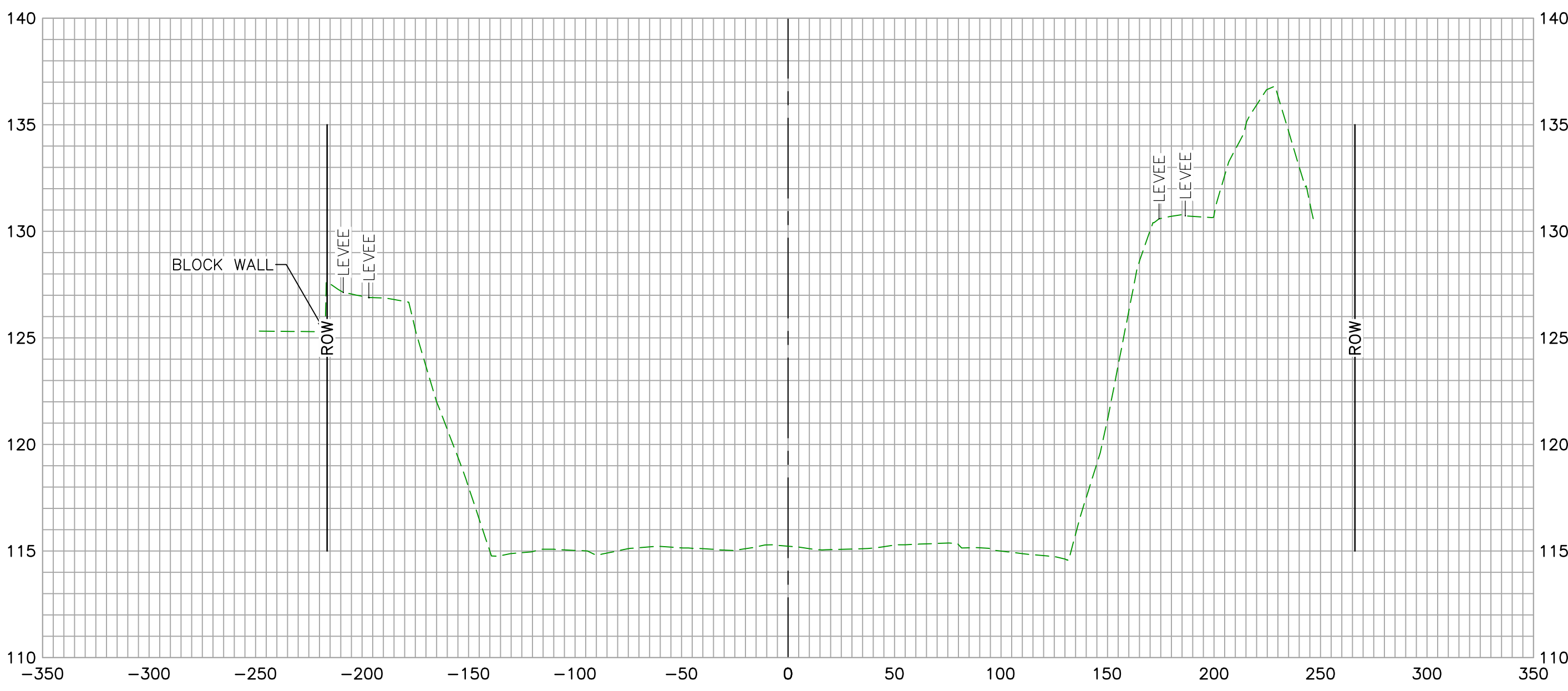
22 FREEWAY BRIDGE END STATION
SANTA ANA RIVER CHANNEL (E01)
605+17.35
CL



SANTA ANA RIVER CHANNEL (E01)
606+00.00
CL

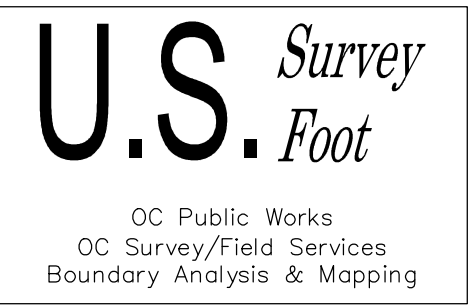


SANTA ANA RIVER CHANNEL (E01)
607+00.00
CL



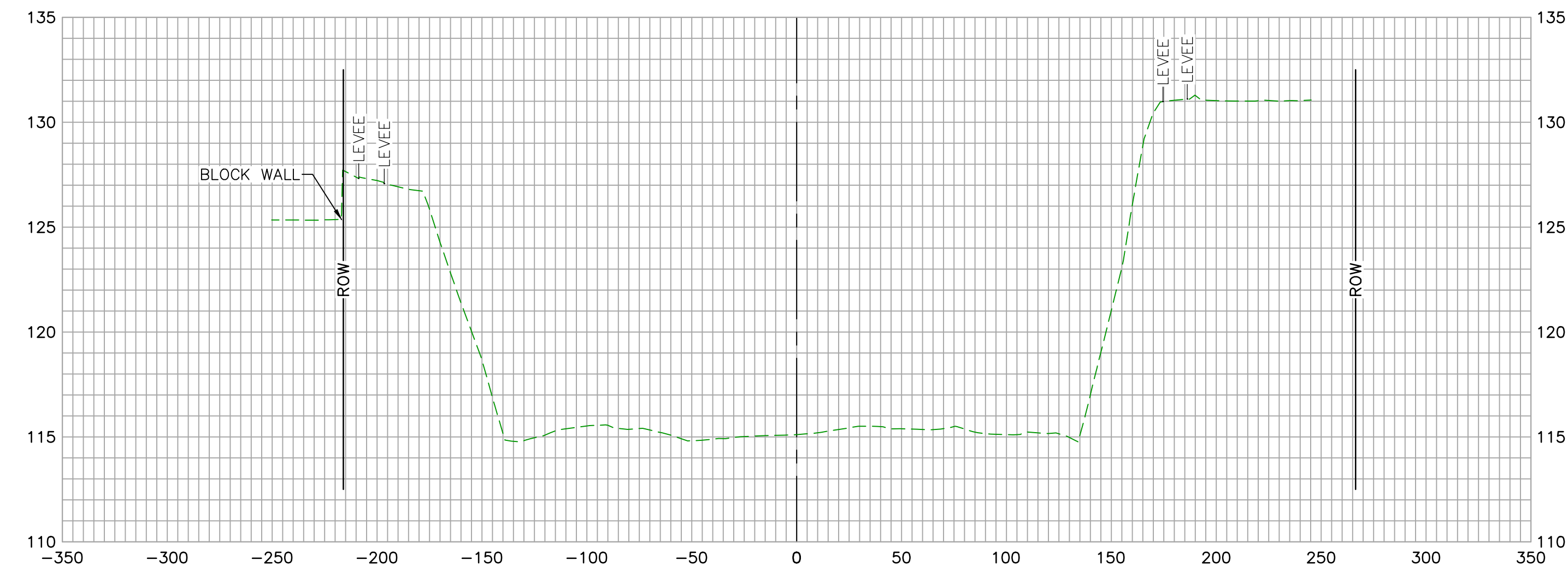
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

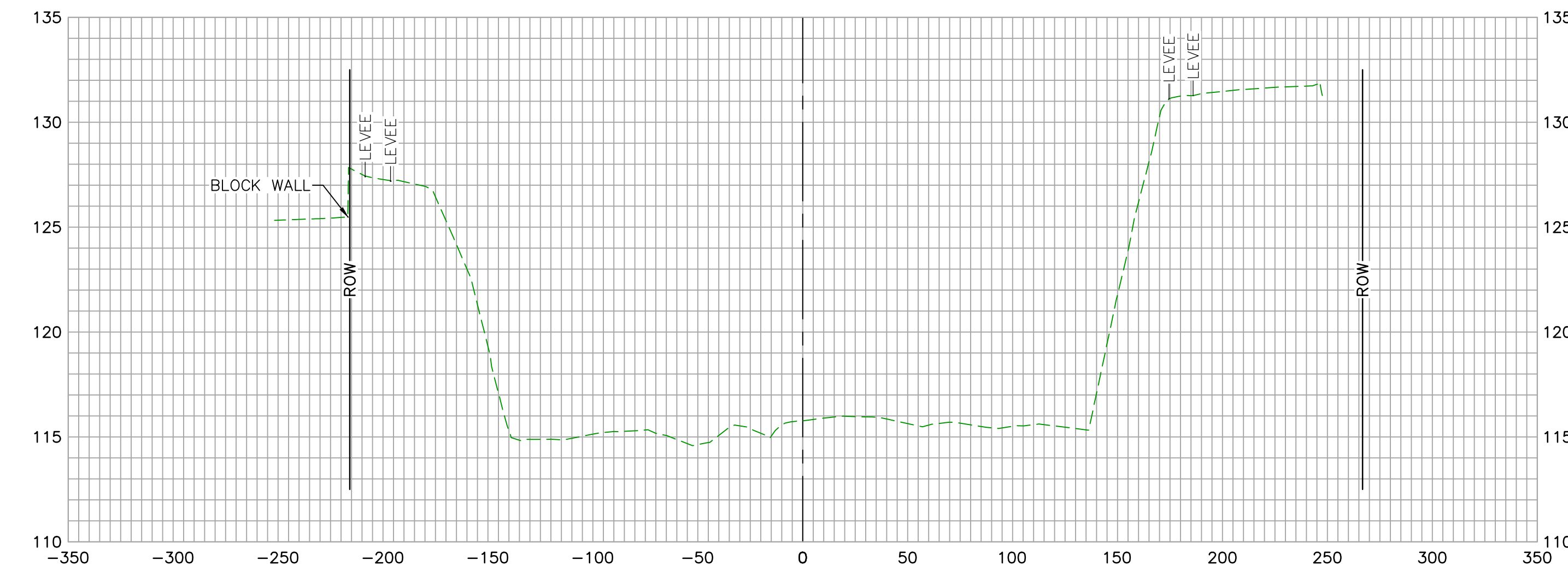


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION		
			SECTIONS		
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA		
			RIVER (E01)		
			DATE OF SURVEY: APRIL 2023	BY: E. HERTZ & CREW	SHEET NO. 10 of 19
			MAPPING	BY: J. ISLAS	
			OFFICE CHECK	BY: J. MORENO, PLS	
			FIELD CHECK	BY: E. HERTZ & CREW	
			SCALE: 1"=50'	W.O. #EQ22004P	FILE #----
			FILE: SAR_SECTIONS_2023.DWG		
MARK	DATE	ITEM			
REVISIONS					

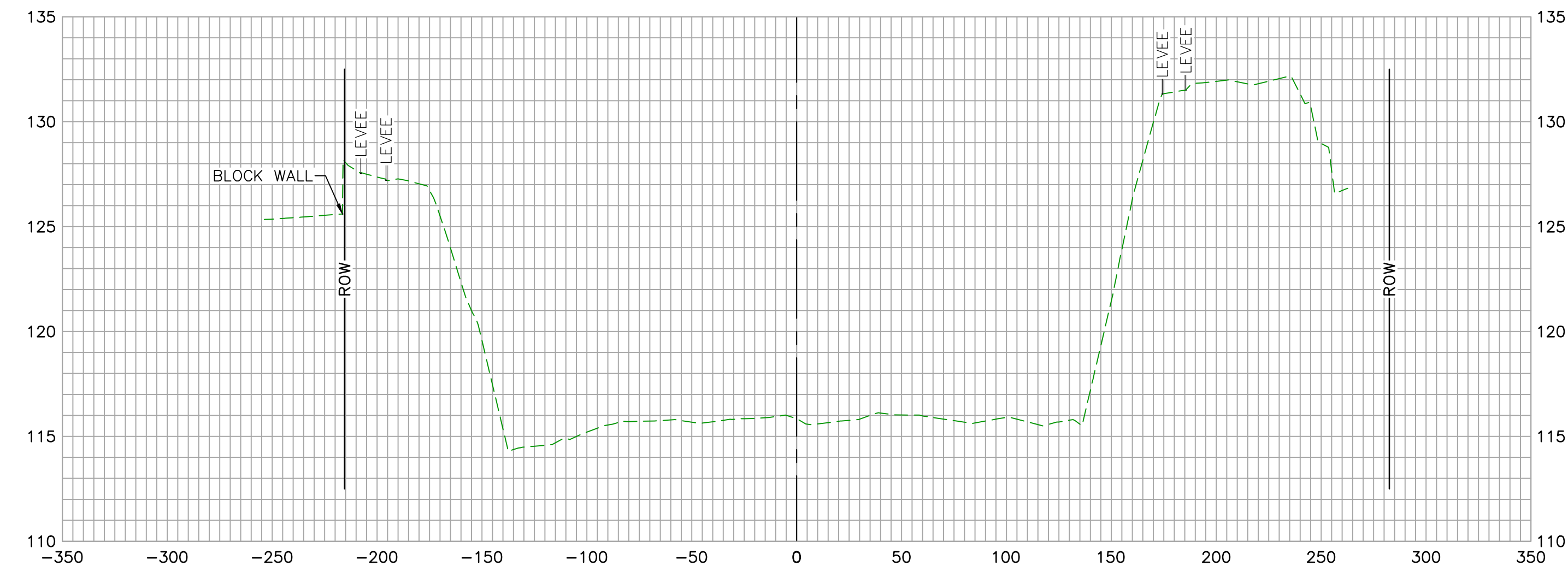
SANTA ANA RIVER CHANNEL (E01)
608+00.00
CL



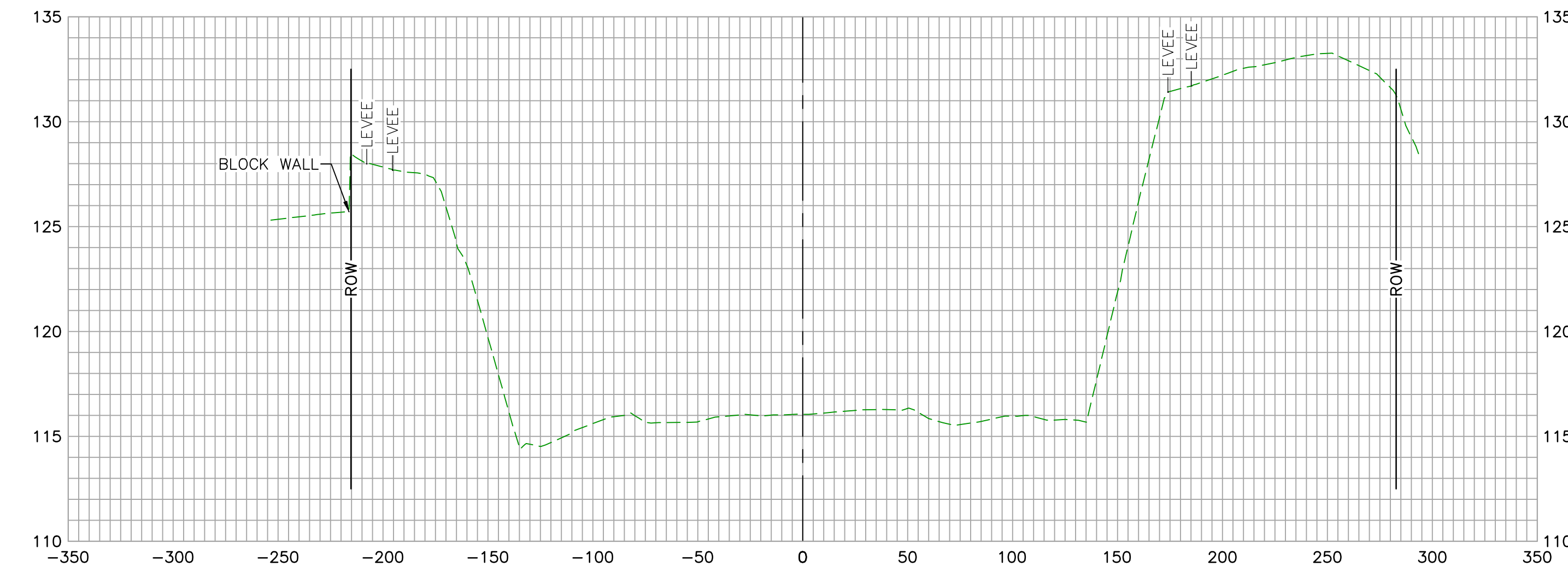
SANTA ANA RIVER CHANNEL (E01)
609+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
610+00.00
CL



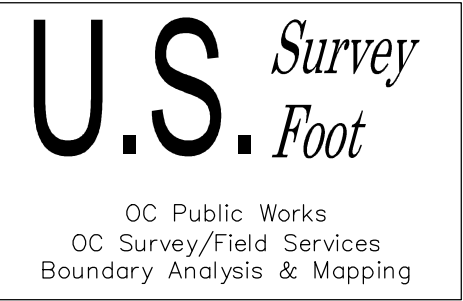
SANTA ANA RIVER CHANNEL (E01)
611+00.00
CL



EXISTING SURFACE 2023
SOFFIT

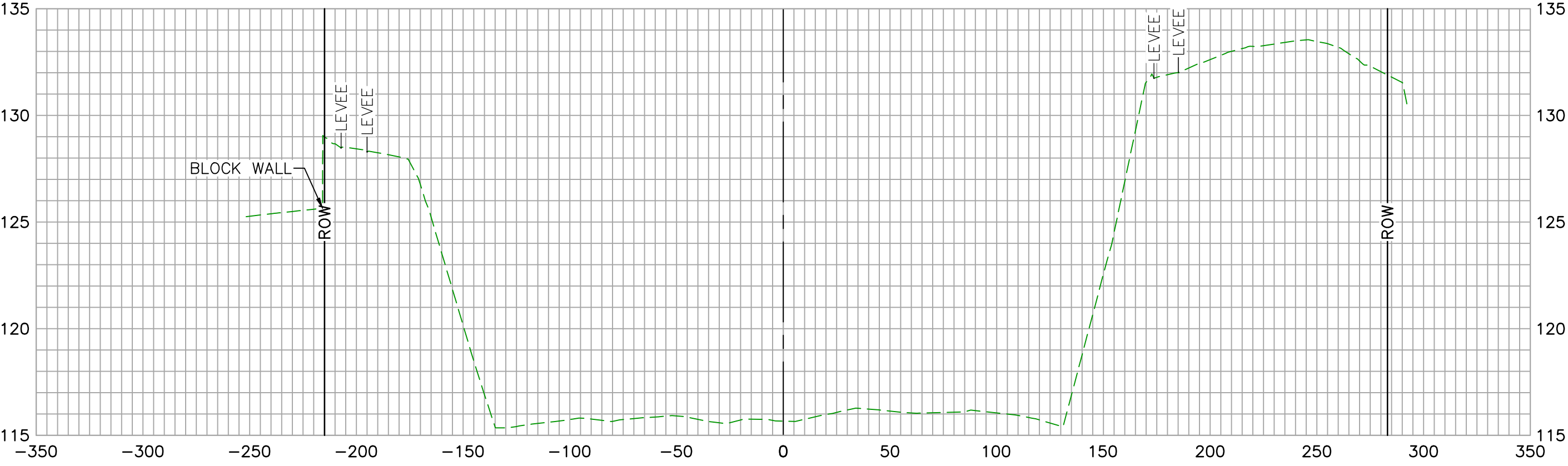
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

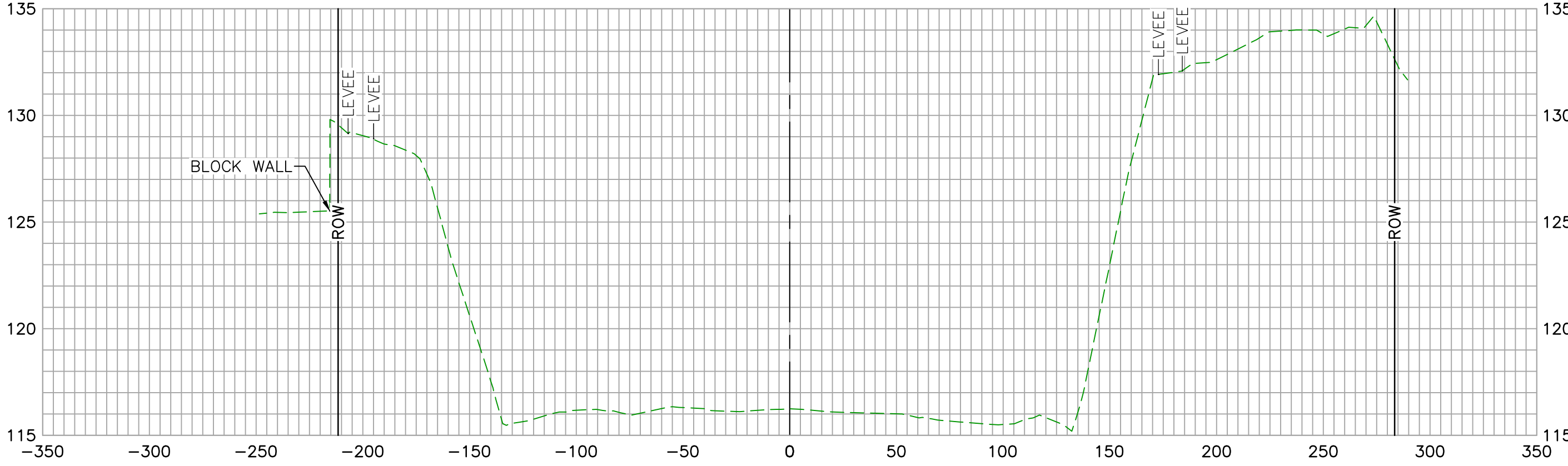


		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING							
		SANTA ANA RIVER REACH 5 (E01) REHABILITATION							
		SECTIONS							
		PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)							
		DATE OF SURVEY: APRIL 2023			BY: E. HERTZ & CREW		SHEET NO. 11 of 19		
		MAPPING			BY: J. ISLAS				
		OFFICE CHECK			BY: J. MORENO, PLS				
		FIELD CHECK			BY: E. HERTZ & CREW				
		MARK	DATE	ITEM		SCALE: 1"=50'		W.O. #E022004P	FILE # ----
		REVISIONS							
FILE: SAR_SECTIONS_2023.DWG									

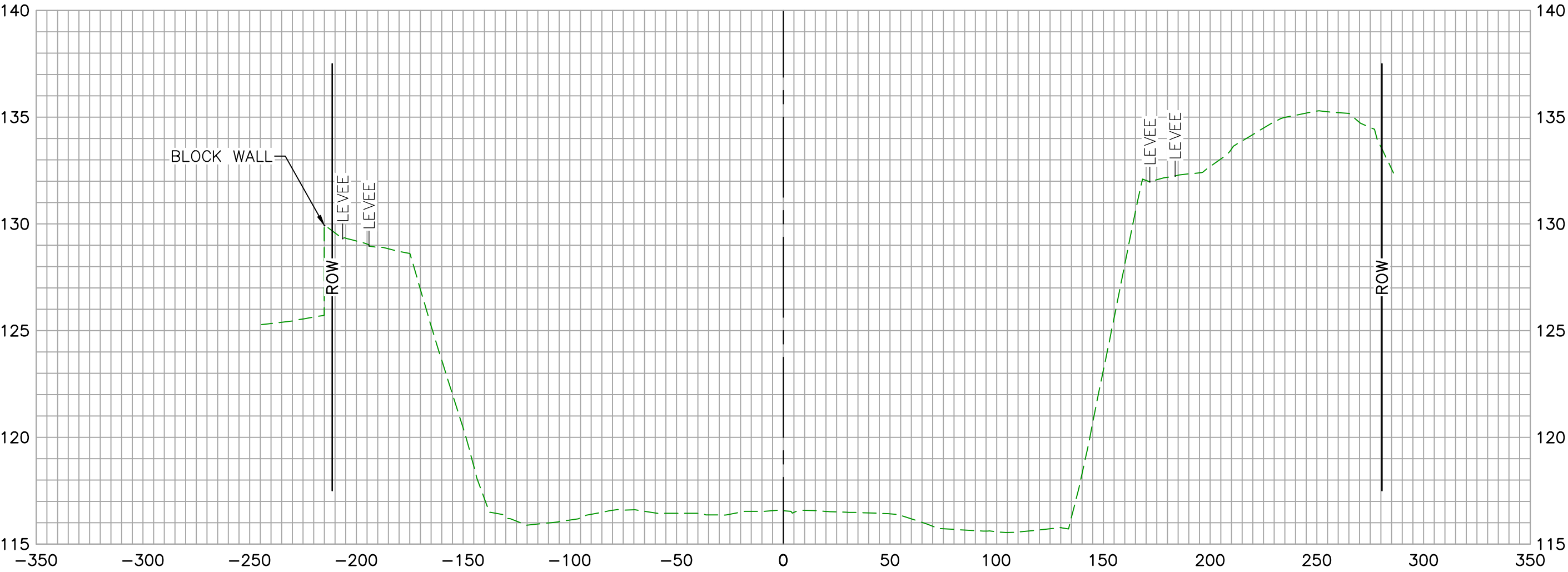
SANTA ANA RIVER CHANNEL (E01)
612+00.00
CL



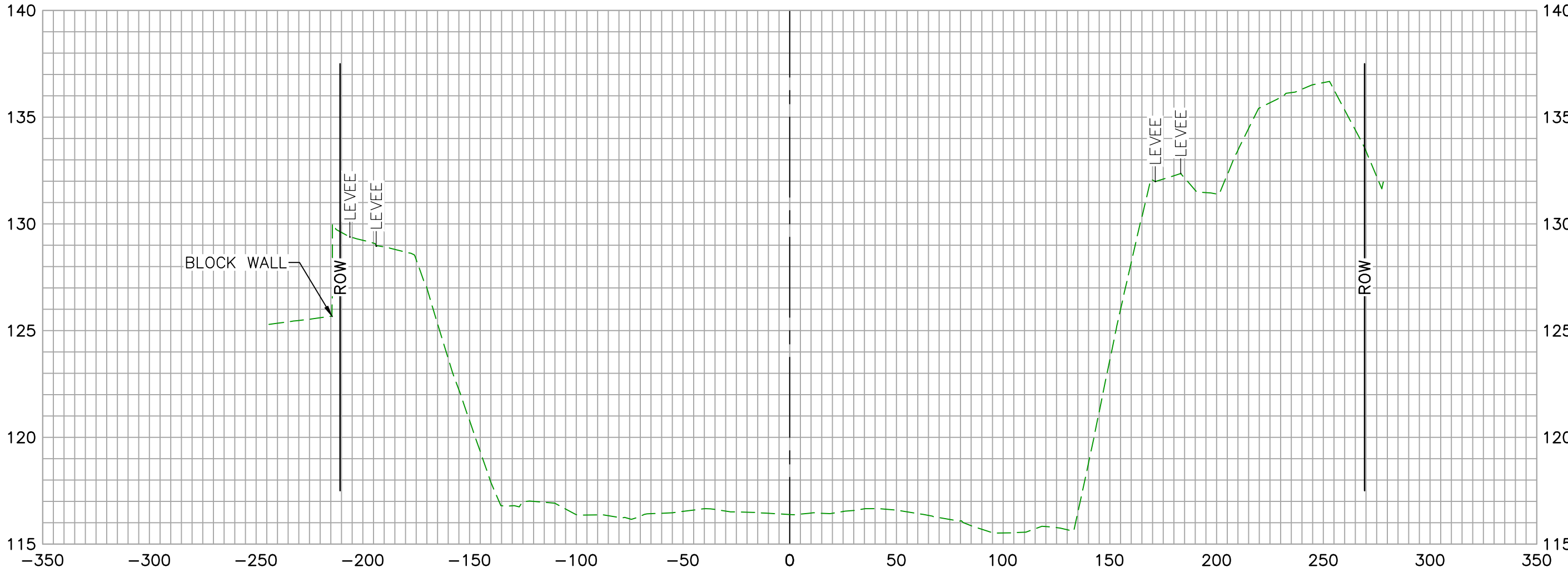
SANTA ANA RIVER CHANNEL (E01)
613+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
614+00.00
CL

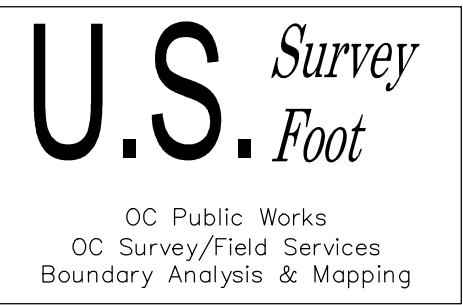


SANTA ANA RIVER CHANNEL (E01)
615+00.00
CL



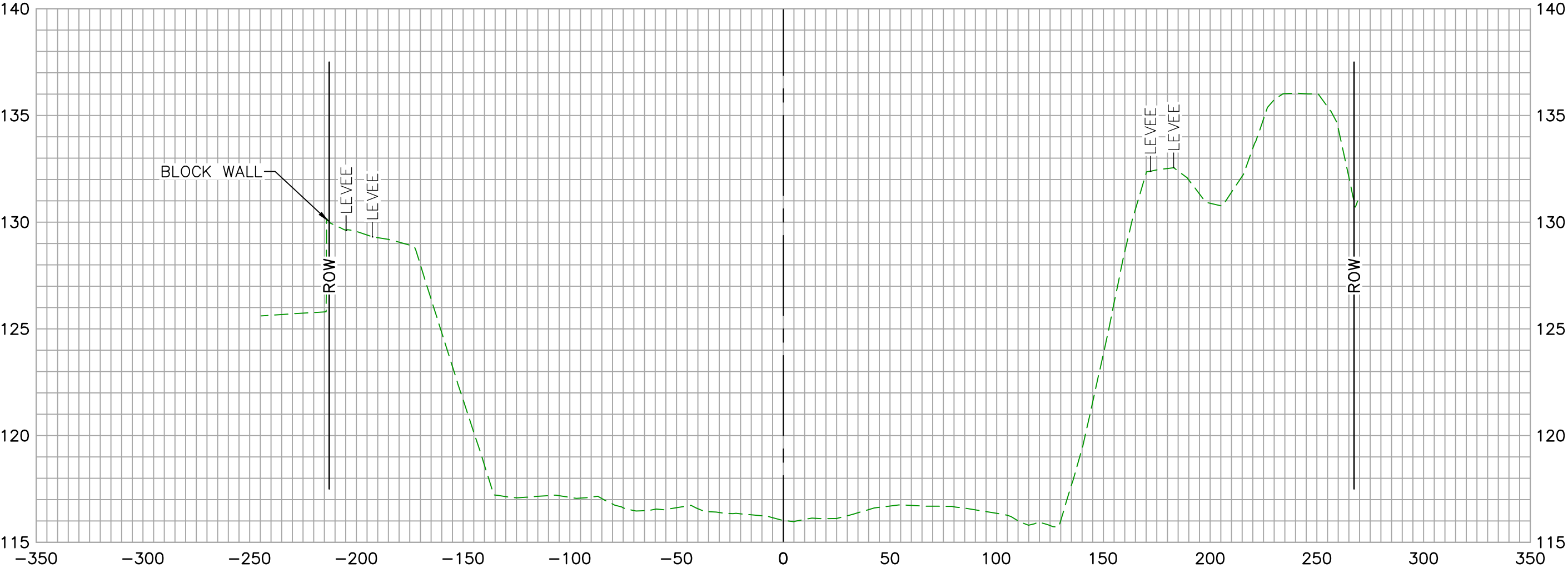
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

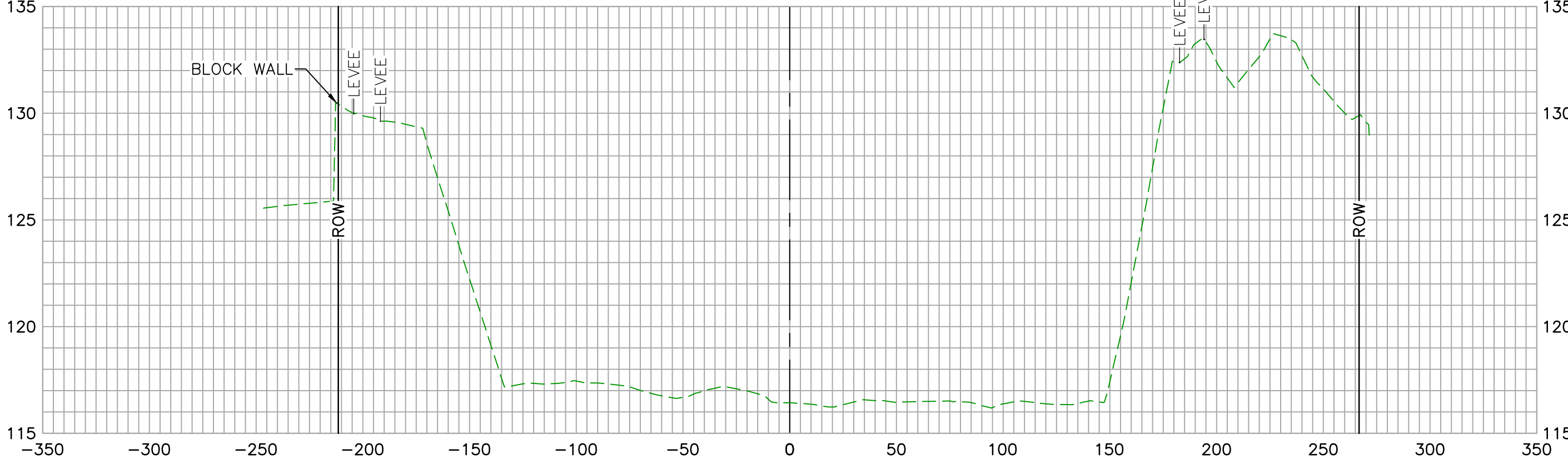


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION			
			SECTIONS			
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)			
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW	
			MAPPING		BY: I. ISLAS	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: E. HERTZ & CREW	
			SCALE: 1"=50'		W.O. #E022004P	
			FILE: SAR_SECTIONS_2023.DWG		FILE # ----	
MARK	DATE	ITEM	REVISIONS			

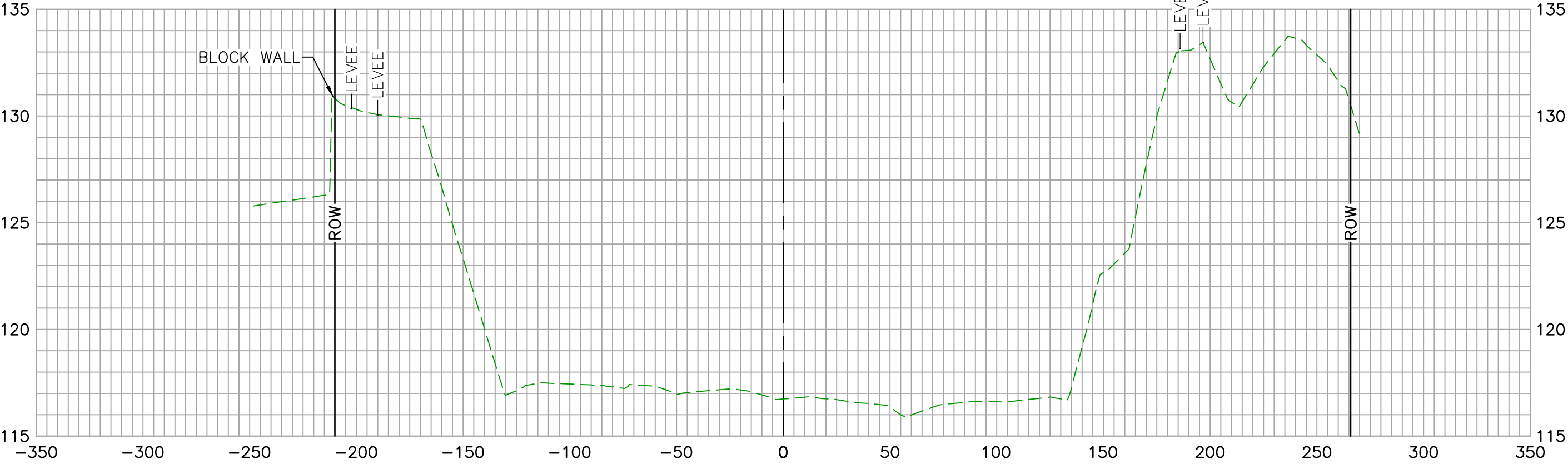
SANTA ANA RIVER CHANNEL (E01)
616+00.00
CL



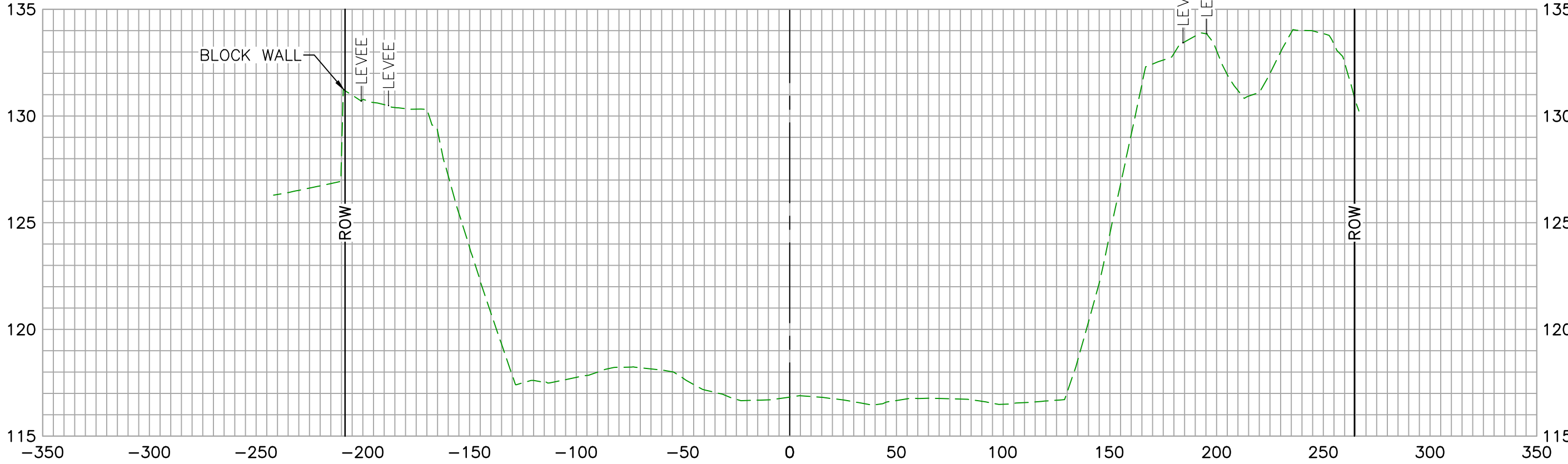
SANTA ANA RIVER CHANNEL (E01)
617+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
618+00.00
CL

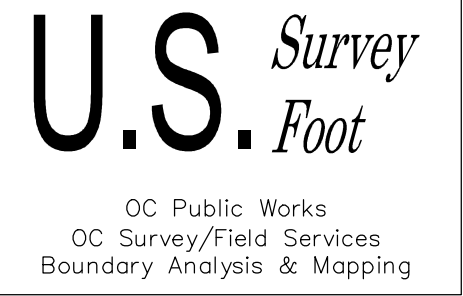


SANTA ANA RIVER CHANNEL (E01)
619+00.00
CL



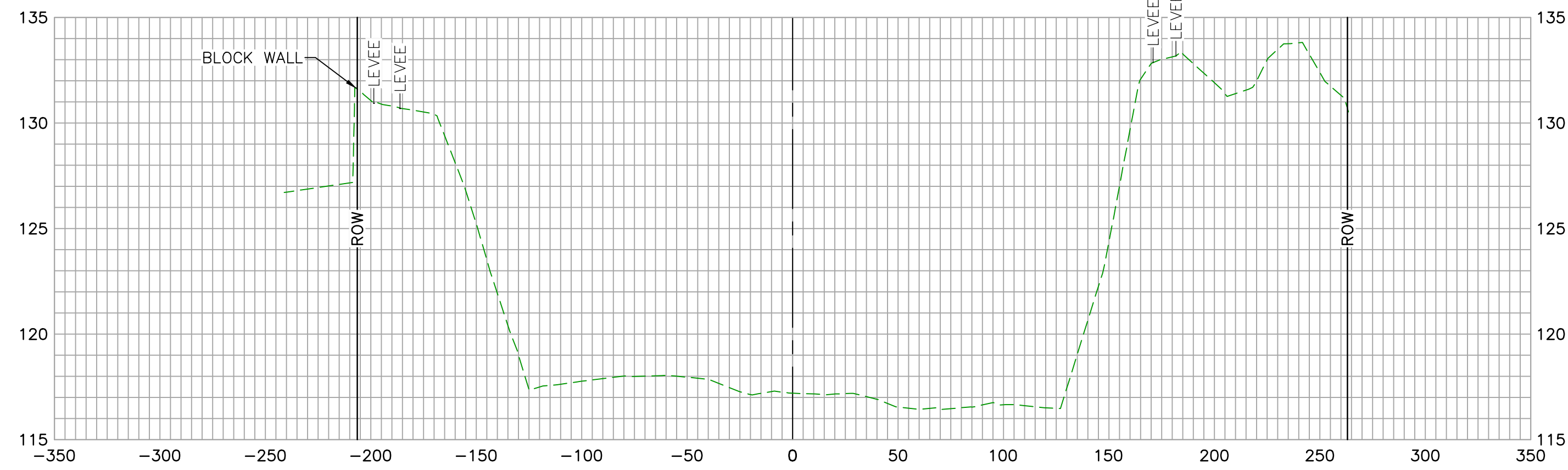
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

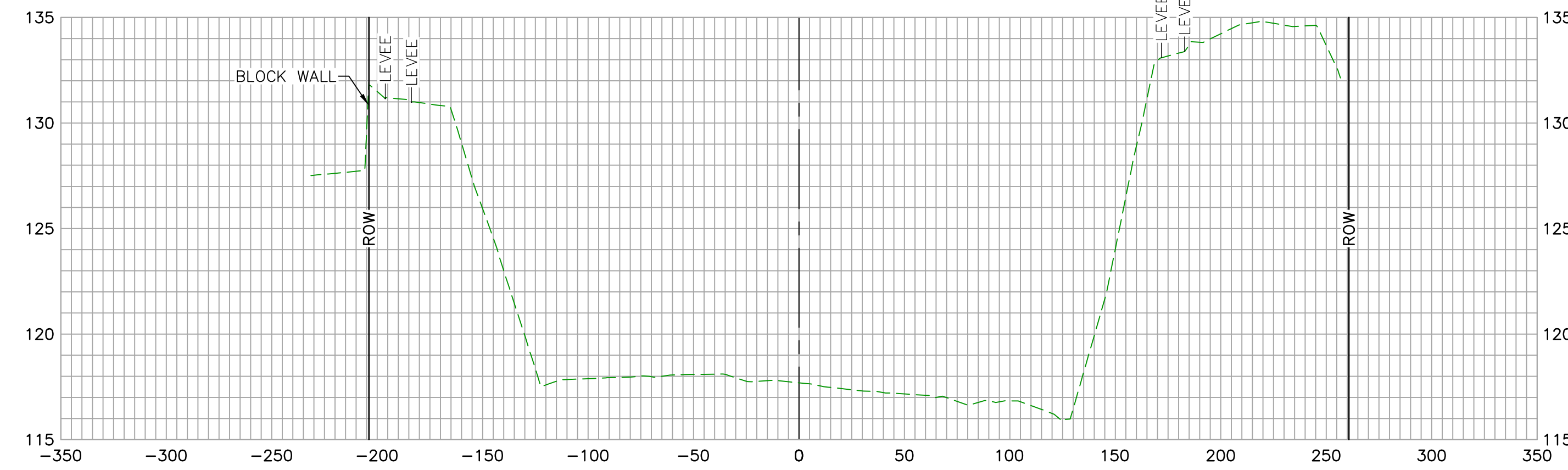


		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
		SECTIONS				
		PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
		DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 13 of 19
		MAPPING		BY: J. ISLAS		
		OFFICE CHECK		BY: J. MORENO, PLS		
		FIELD CHECK		BY: E. HERTZ & CREW		
		SCALE: 1"=50'		W.O. #E022004P		
		FILE: SAR_SECTIONS_2023.DWG		FILE # ----		
MARK	DATE	ITEM				
REVISIONS						

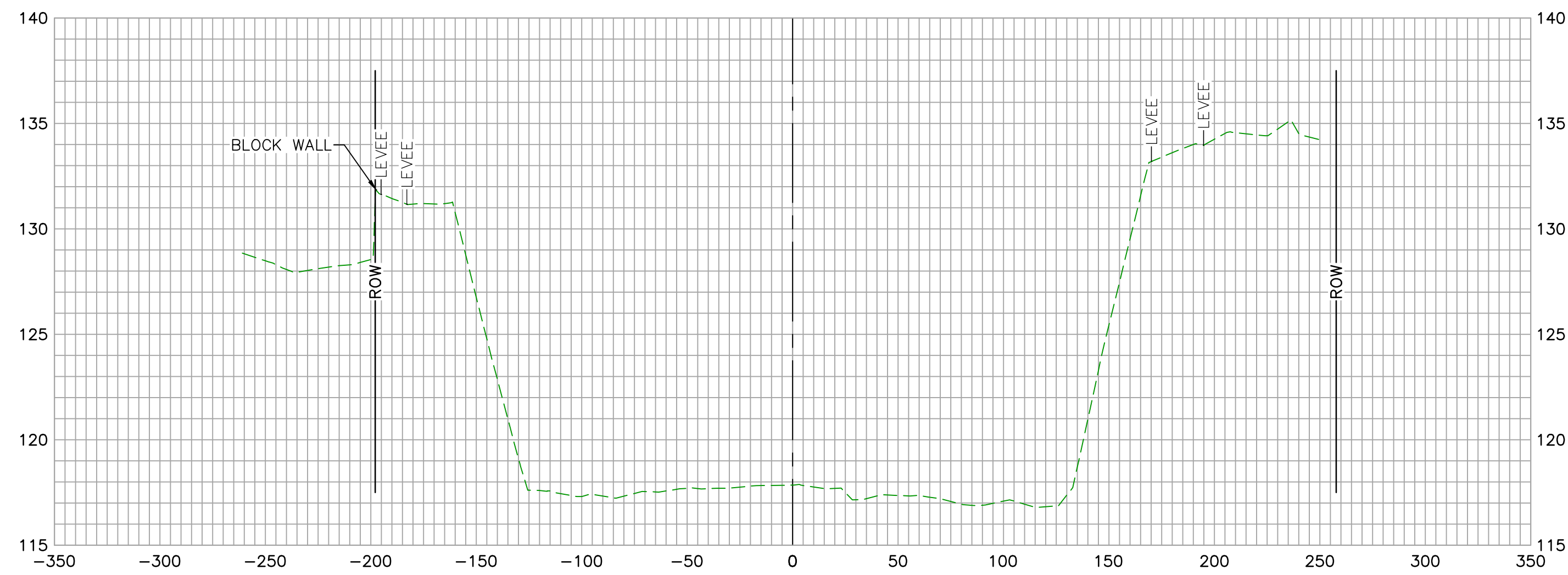
SANTA ANA RIVER CHANNEL (E01)
620+00.00
CL



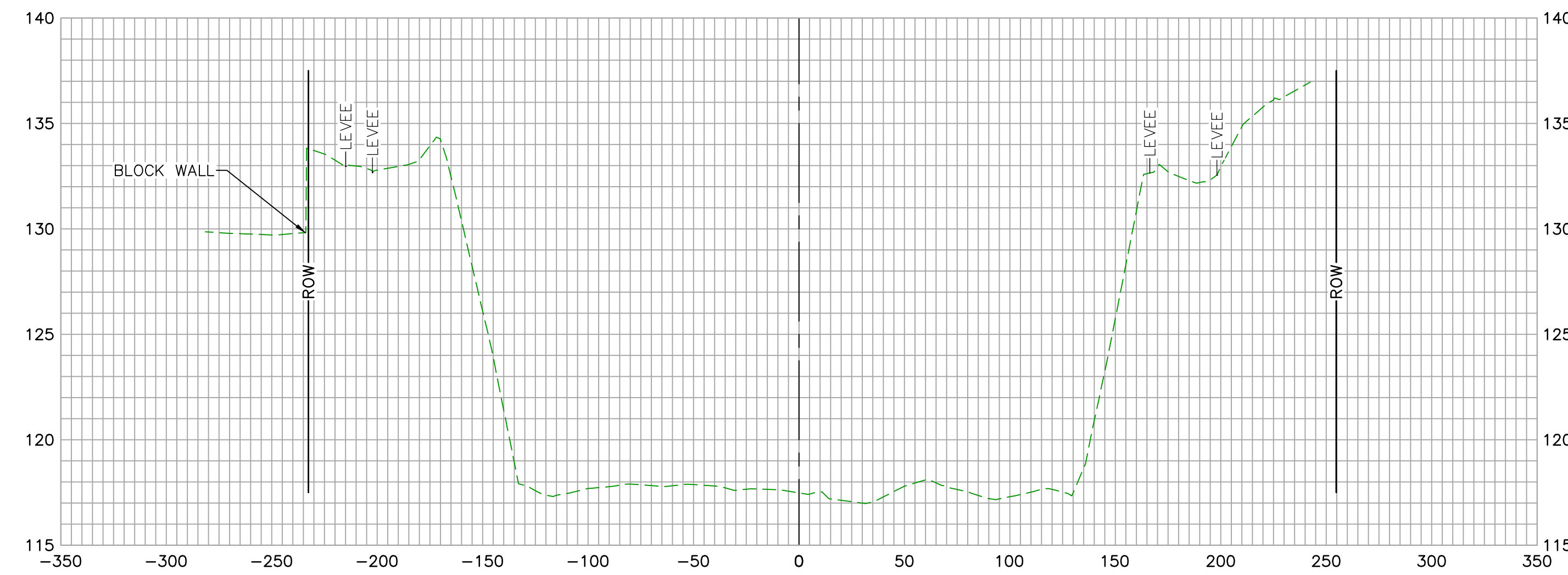
SANTA ANA RIVER CHANNEL (E01)
621+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
622+00.00
CL

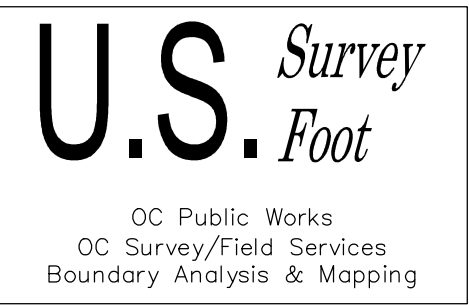


SANTA ANA RIVER CHANNEL (E01)
623+00.00
CL



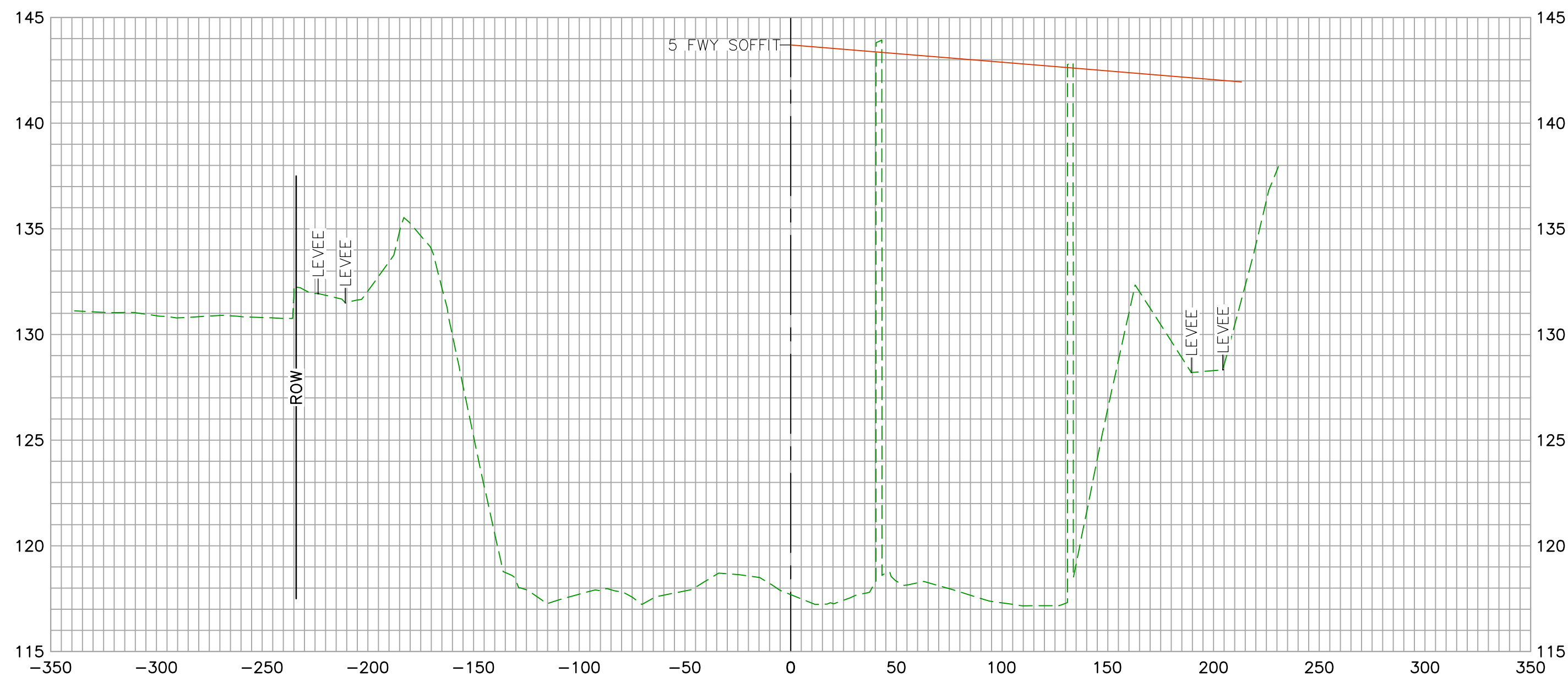
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

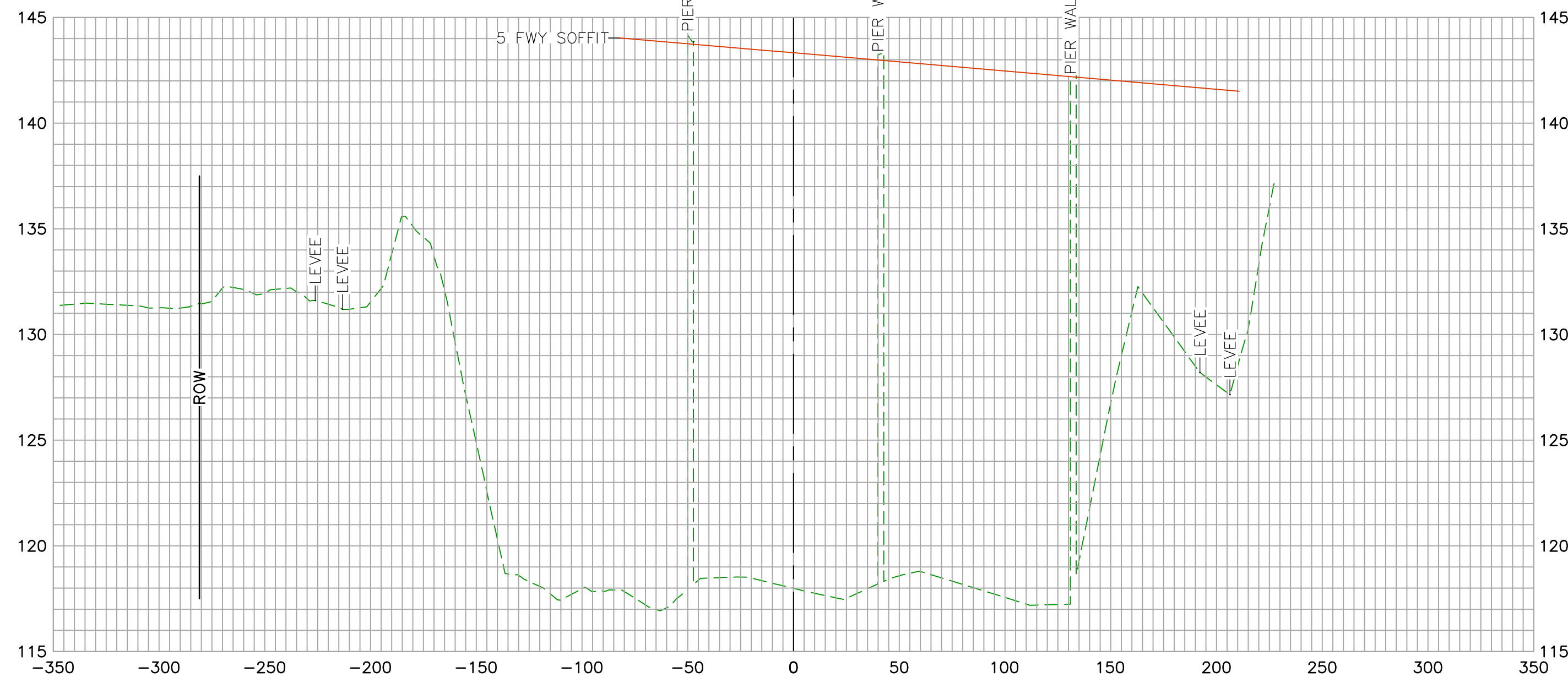


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
			SECTIONS				
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 14 of 19
			MAPPING		BY: J. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ & CREW		
			SCALE: 1"=50'		W.O. #E022004P		
			FILE: SAR_SECTIONS_2023.DWG		FILE # ----		
MARK	DATE	ITEM	REVISIONS				

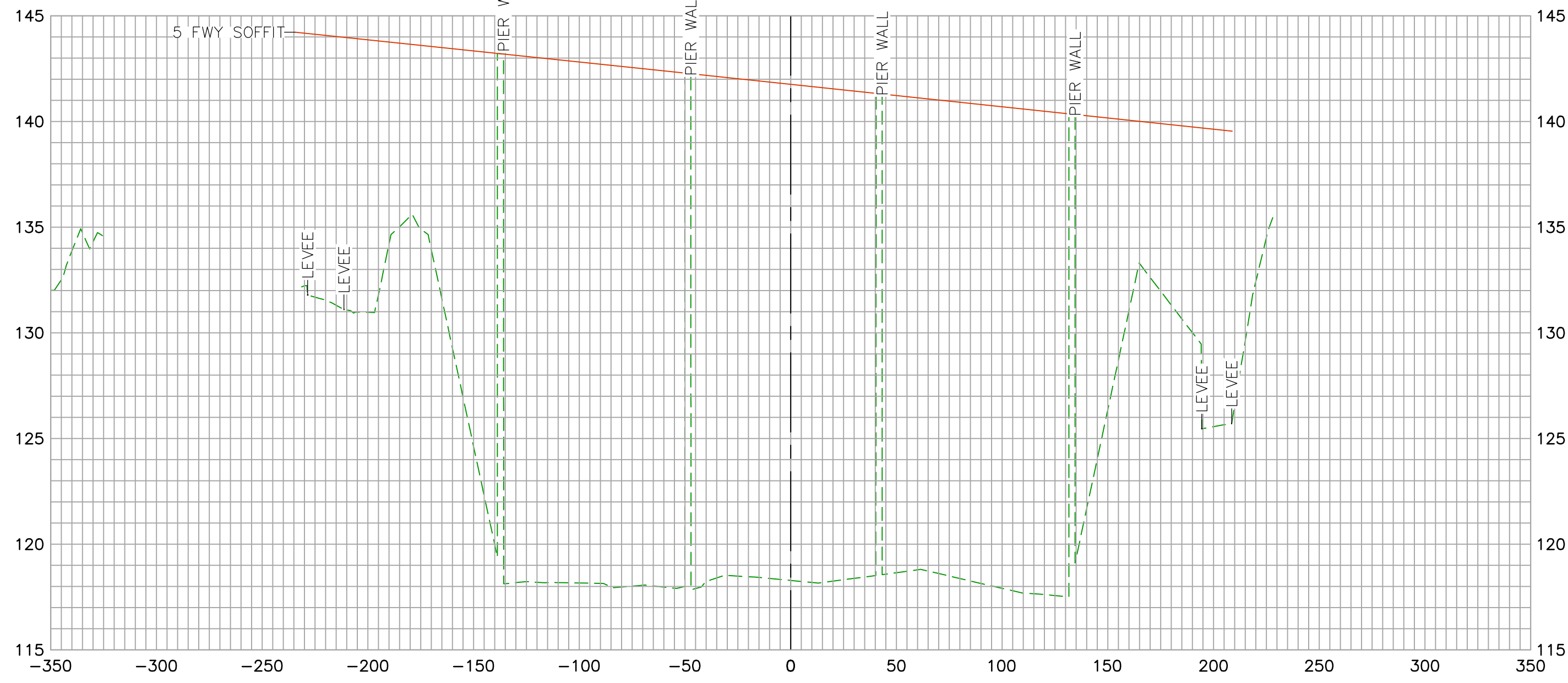
5 FREEWAY BRIDGE BEGIN STATION
SANTA ANA RIVER CHANNEL (E01)
623+75.26
CL



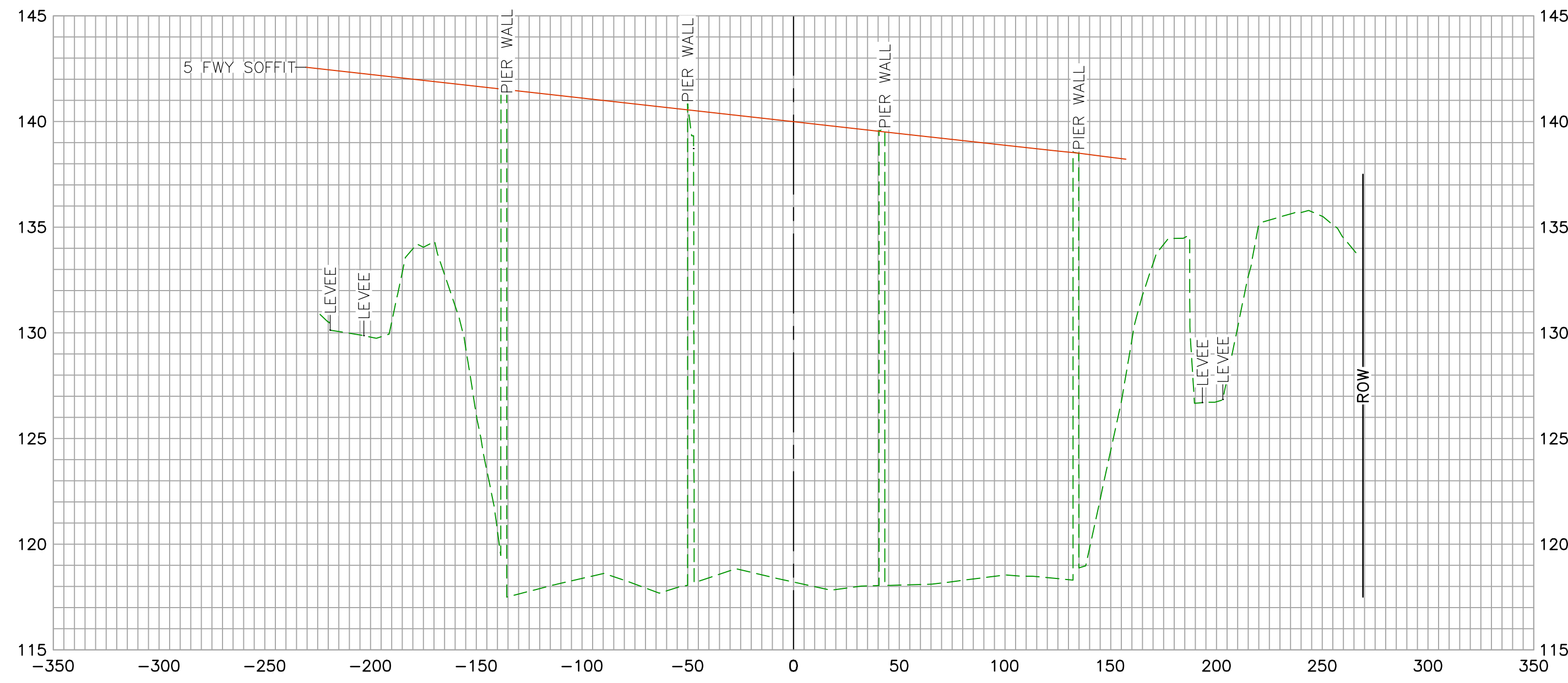
SANTA ANA RIVER CHANNEL (E01)
624+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
625+00.00
CL

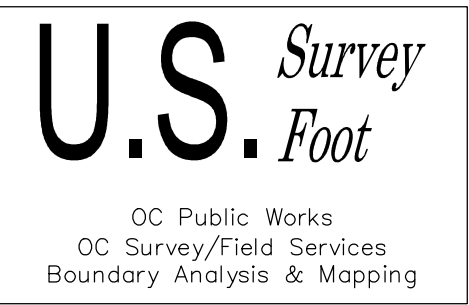


SANTA ANA RIVER CHANNEL (E01)
626+00.00
CL



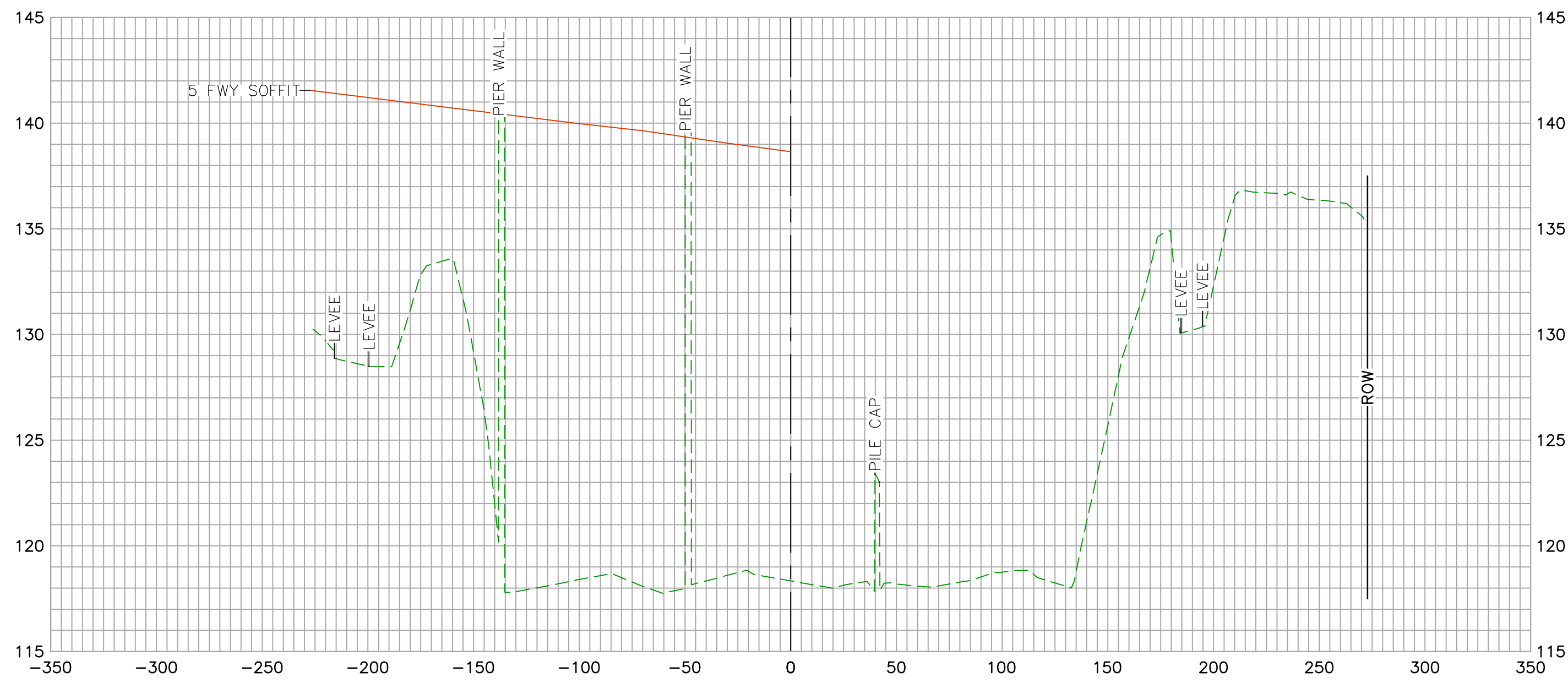
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

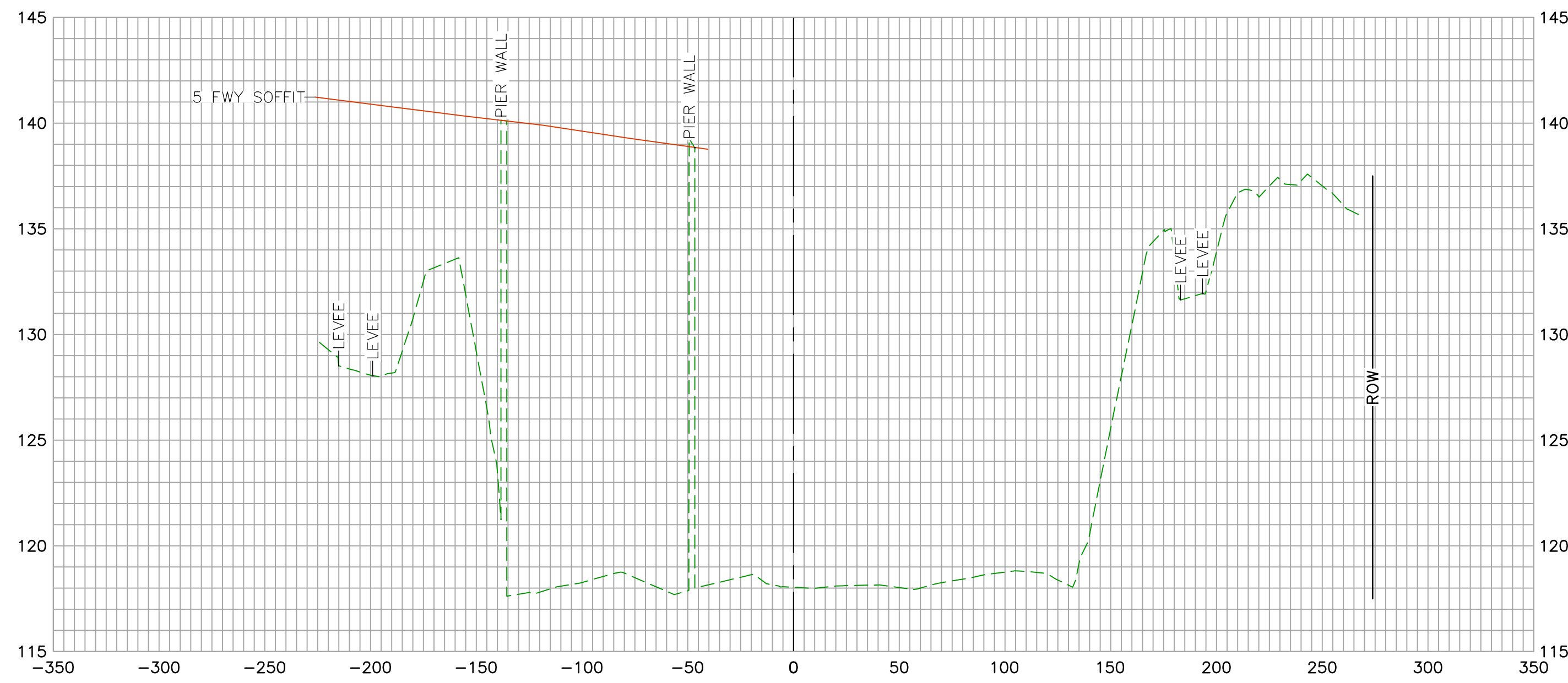


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
			SECTIONS				
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 15 of 19
			MAPPING		BY: I. ISLAS		
OFFICE CHECK		BY: J. MORENO, PLS					
FIELD CHECK		BY: E. HERTZ & CREW					
MARK	DATE	ITEM	SCALE: 1"=50'		W.O. #E022004P	FILE #----	
REVISIONS			FILE: SAR_SECTIONS_2023.DWG				

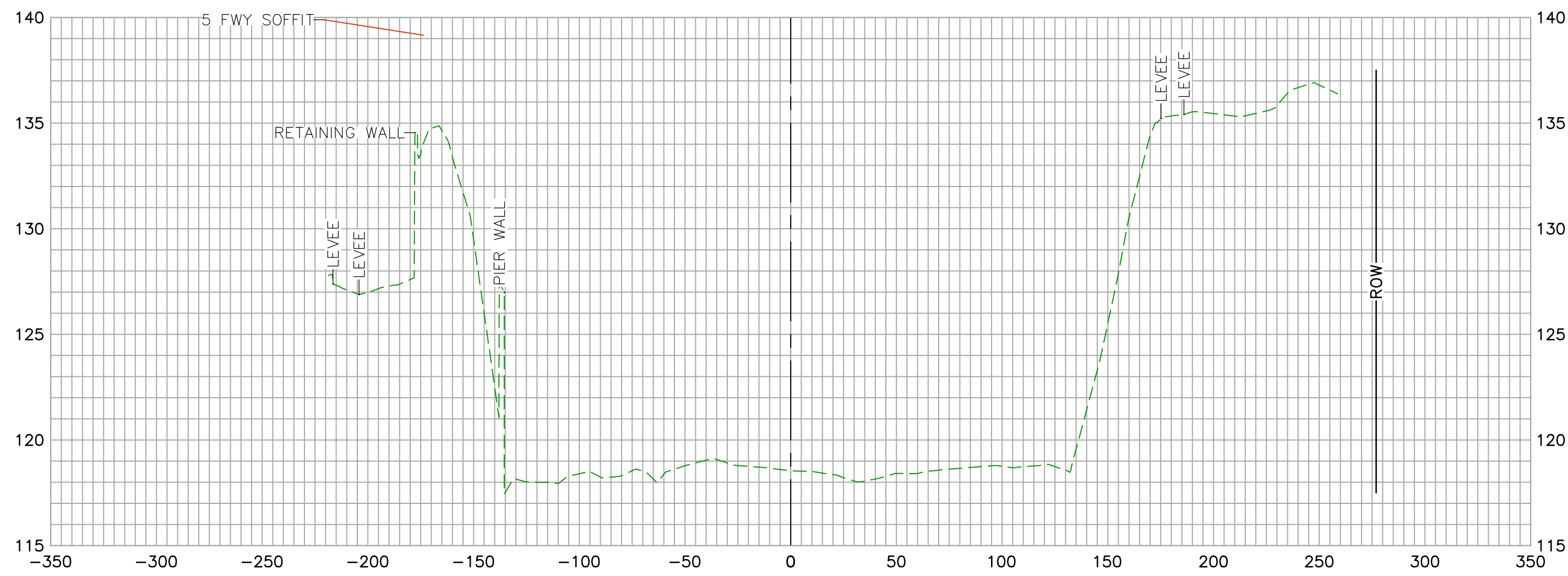
5 FREEWAY BRIDGE END STATION
SANTA ANA RIVER CHANNEL (E01)
626+75.79
CL



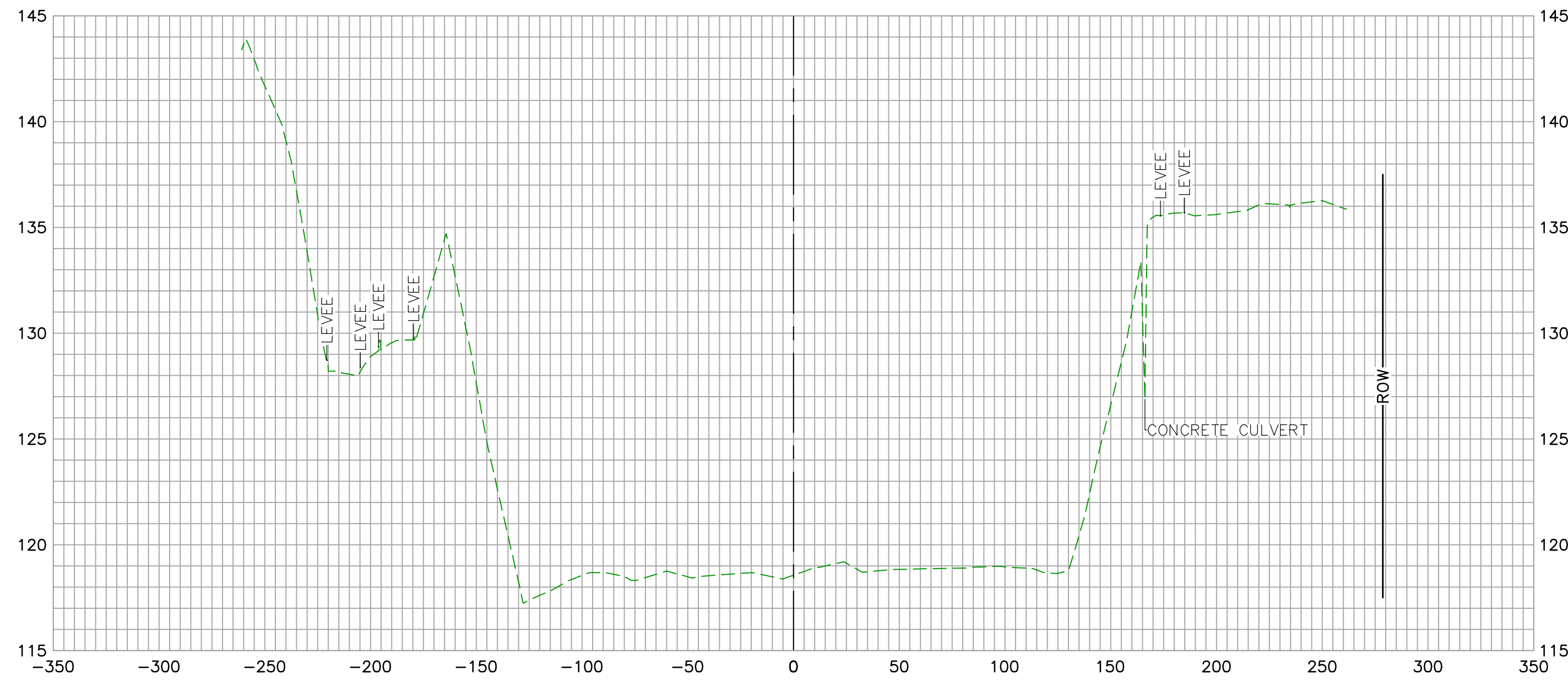
SANTA ANA RIVER CHANNEL (E01)
627+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
628+00.00
CL

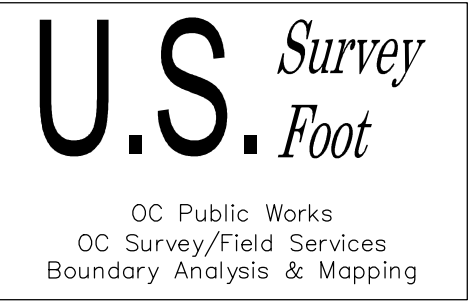


SANTA ANA RIVER CHANNEL (E01)
629+00.00
CL



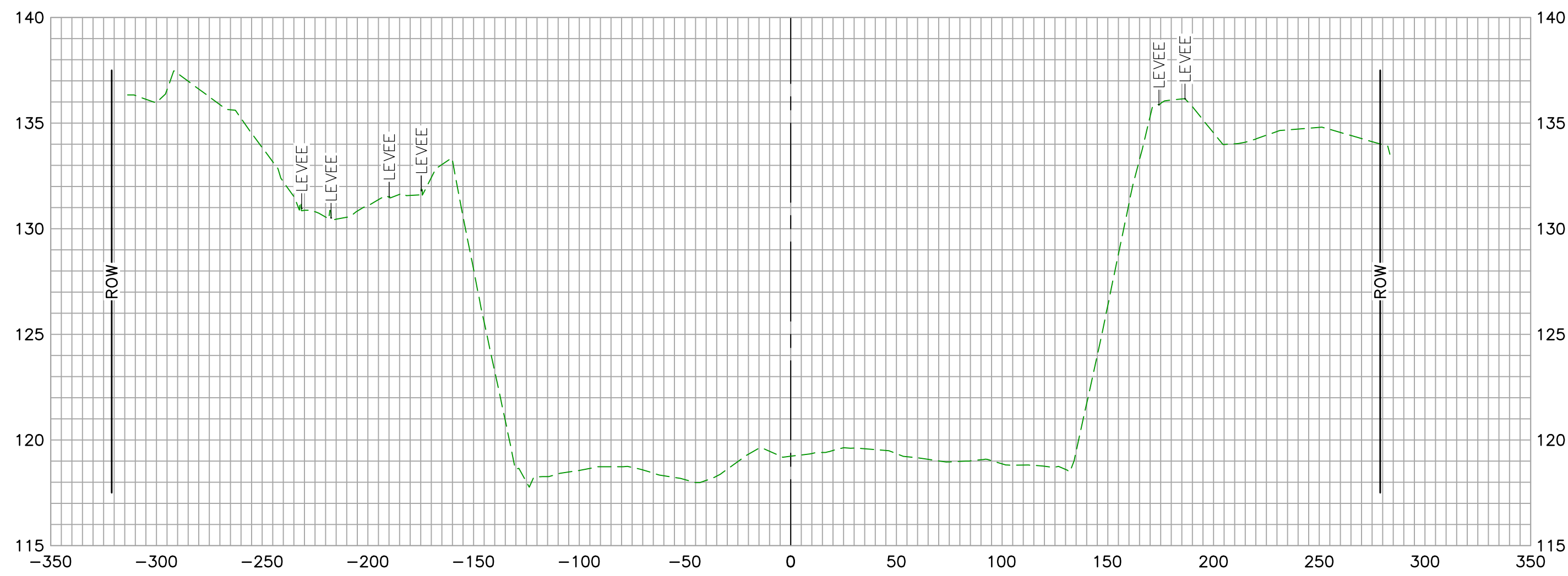
EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'

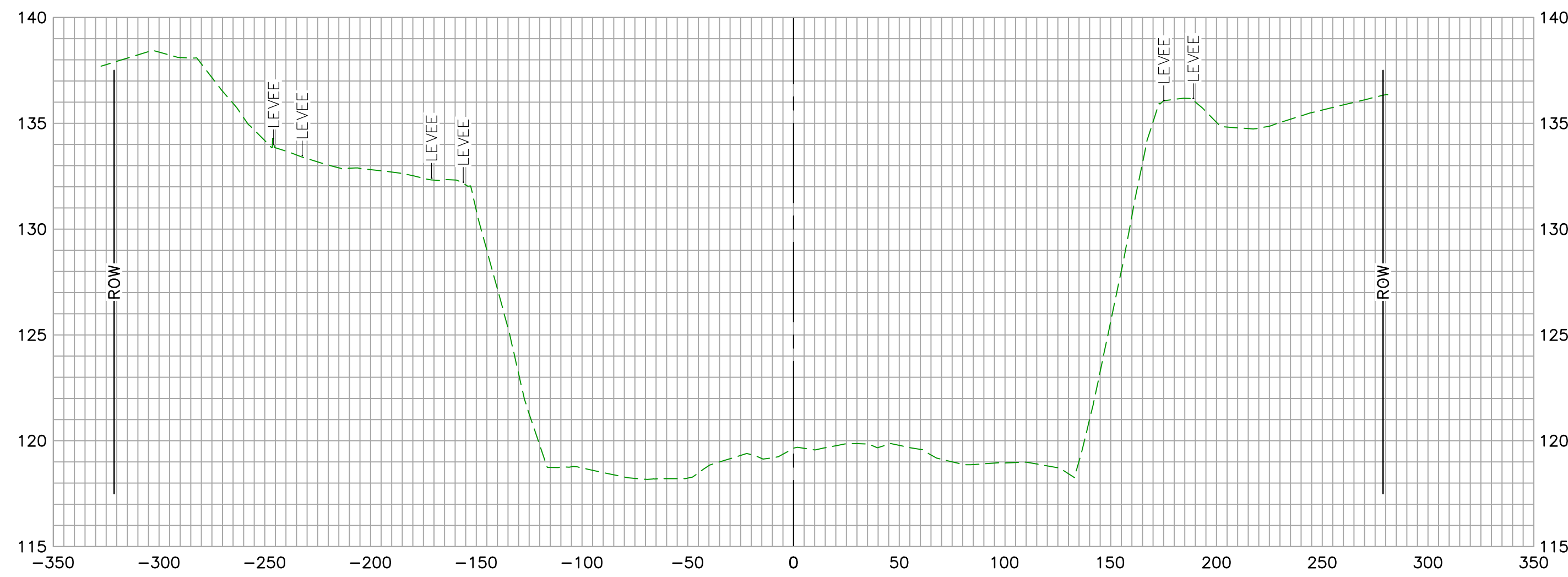


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION		
			SECTIONS		
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)		
			DATE OF SURVEY: APRIL 2023	BY: E. HERTZ & CREW	SHEET NO. 16 of 17
			MAPPING	BY: J. ISLAS	
			OFFICE CHECK	BY: J. MORENO, PLS	
			FIELD CHECK	BY: E. HERTZ & CREW	
			SCALE: 1"=50'	W.O. #E022004P	FILE #2223PW-FP0002
			FILE: SAR_SECTIONS_2023.DWG		
MARK	DATE	ITEM	REVISIONS		

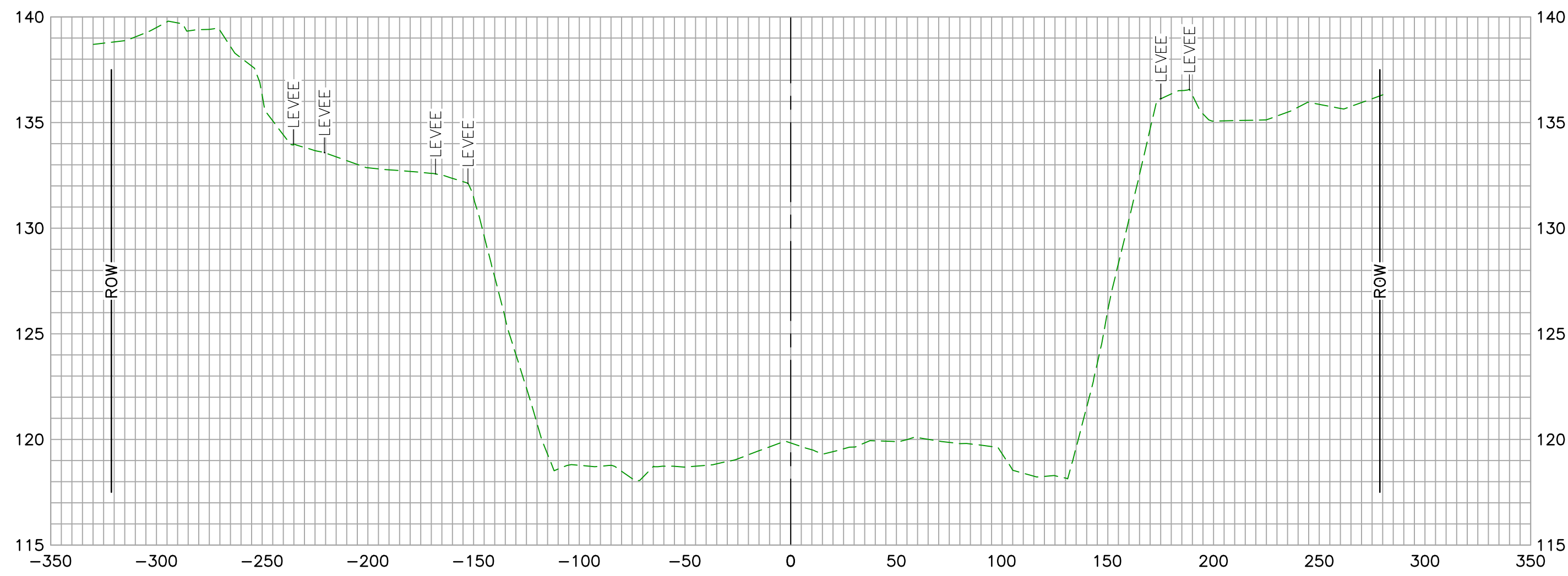
SANTA ANA RIVER CHANNEL (E01)
630+00.00
CL



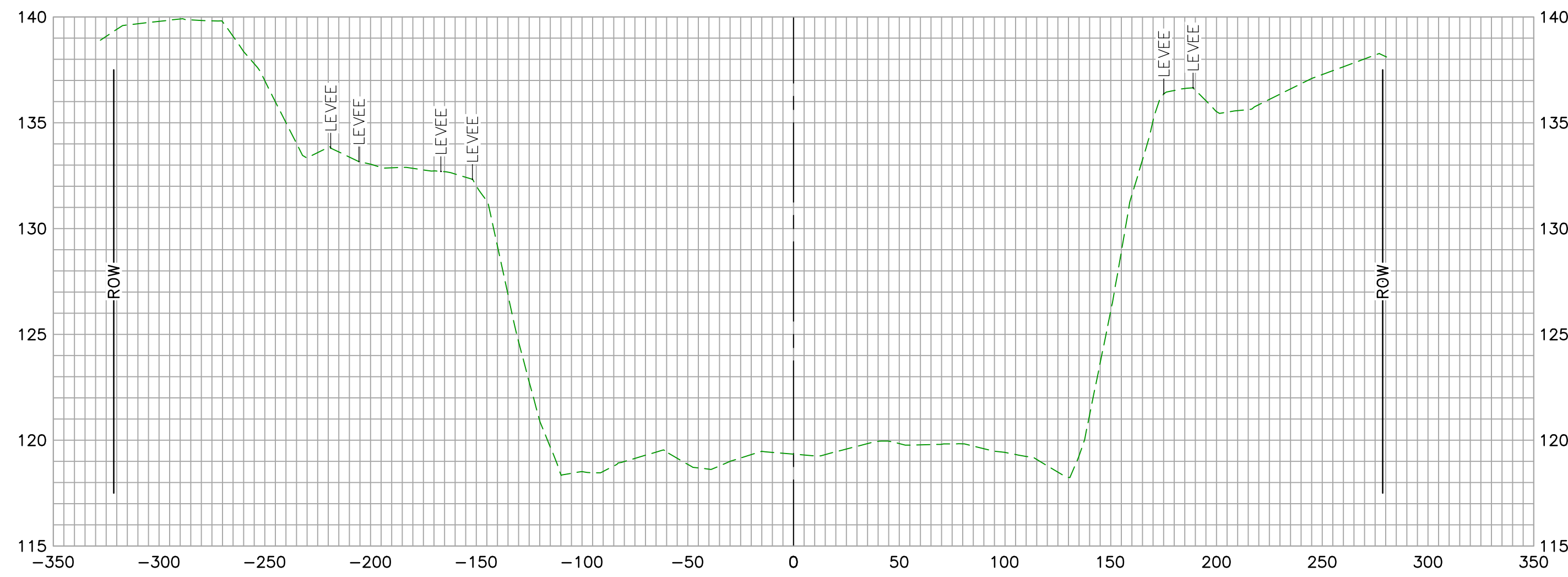
SANTA ANA RIVER CHANNEL (E01)
631+00.00
CL



SANTA ANA RIVER CHANNEL (E01)
632+00.00
CL

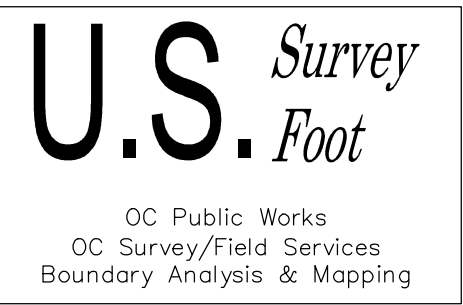


SANTA ANA RIVER CHANNEL (E01)
633+00.00
CL



EXISTING SURFACE 2023
SOFFIT
DATE PREPARED: 7/24/2023

Vert. Scale: 1"=5'
Hor. Scale: 1"=50'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SANTA ANA RIVER REACH 5 (E01) REHABILITATION				
			SECTIONS				
			PROJECT LIMITS: FROM STA. 594+00 TO STA. 667+00 OF THE SANTA ANA RIVER (E01)				
			DATE OF SURVEY: APRIL 2023		BY: E. HERTZ & CREW		SHEET NO. 17 of 17
			MAPPING		BY: J. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ & CREW		
			SCALE: 1"=50'		W.O. #EQ22004P		FILE # ----
			FILE: SAR_SECTIONS_2023.DWG				
MARK	DATE	ITEM	REVISIONS				