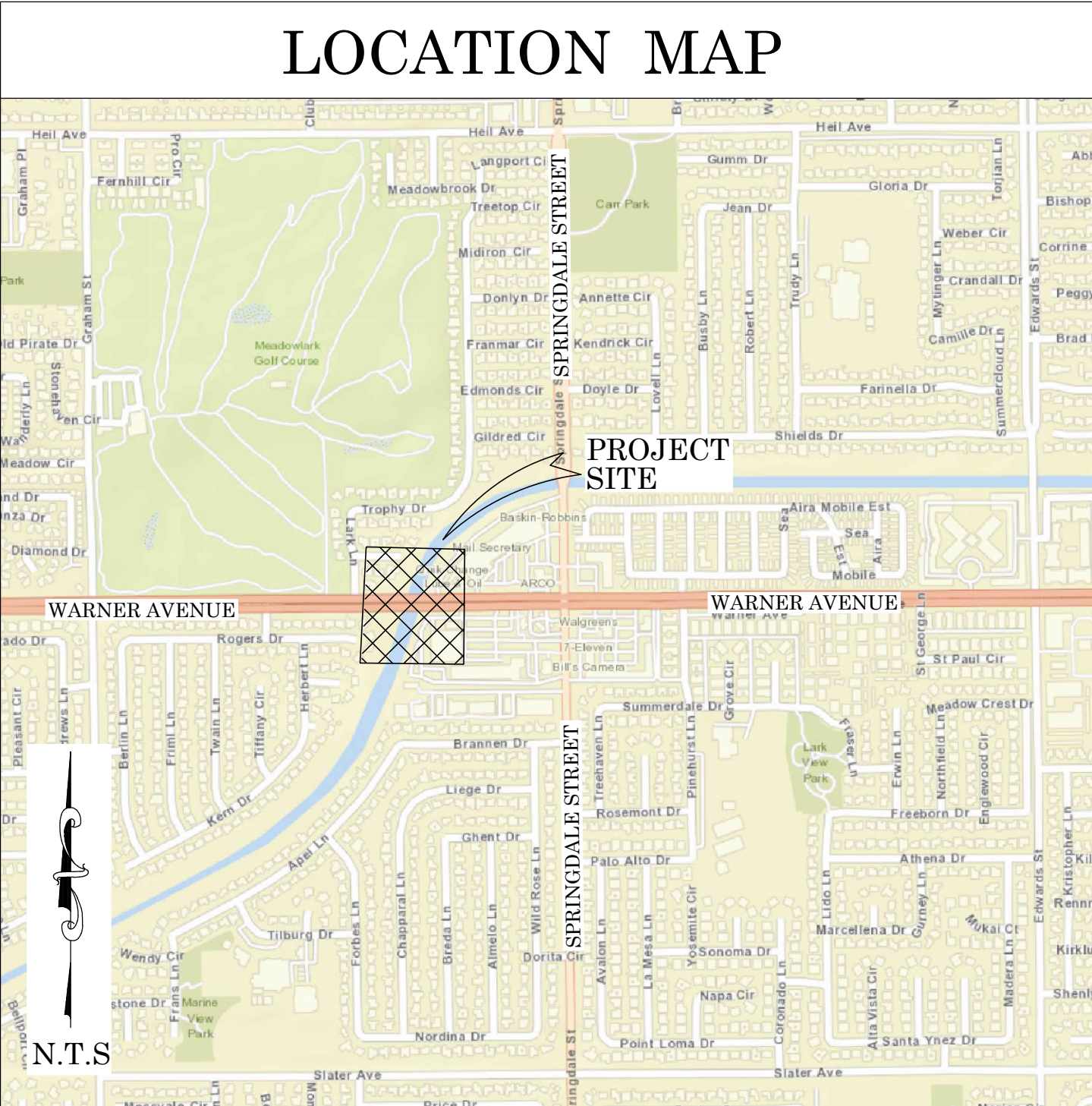




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
WARNER AVE BRIDGE (C05)



BRIDGE IMPROVEMENTS

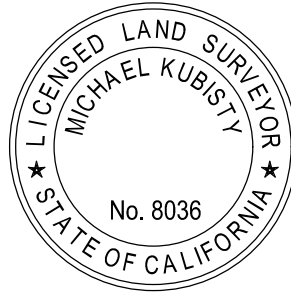


N.T.S.

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 SURVEYOR'S ACT; THIS 28 DAY OF FEBRUARY, 2023.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 28 DAY OF FEBRUARY, 2023.

MICHAEL LAFONTAINE, PLS. DEPUTY COUNTY SURVEYOR



FOUND CGPS "BLSA"
N: 2239163.45
E: 6021325.68
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/).

52 CP#310
FOUND SPIKE & WASHER
STAMPED "LS 5411" FLUSH
IN A.C.
N: 2211159.69'
E: 6024888.06'

4 CP# 301
FOUND MANHOLE WITH 4 PUNCHED
SPIKES & TAGS STAMPED "LS 6979"
FLUSH IN A.C.
N: 2208543.28'
E: 6022234.97'

FOUND CGPS "FVPK"
N: 2188768.54
E: 6048757.12
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/).

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2007.00) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS STATIONS (FVPK) AND (BLSA) BEING NORTH 28°33'38.74" WEST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2007.00) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES DIVIDE GRID DISTANCE BY A COMBINED FACTOR OF 0.99998096

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

VERTICAL DATUM

O.C.S. BM. 1D-78-69 ELEV. = 14.943' YEAR LEVELED: 2005

NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: FOUND 3-3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "1D-78-69", SET IN THE SOUTHEAST CORNER OF A CONCRETE BRIDGE DECK, MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF WARNER AVENUE GOLDENWEST STREET

NOTES

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

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	BOUNDARY MAP
6	TOPOGRAPHIC MAP (STREET AND BRIDGE DECK SURFACE)
7	TOPOGRAPHIC MAP (TOP VIEW EXPOSED BRIDGE SOFFITT/ CEILING)

BASIS OF STATIONING

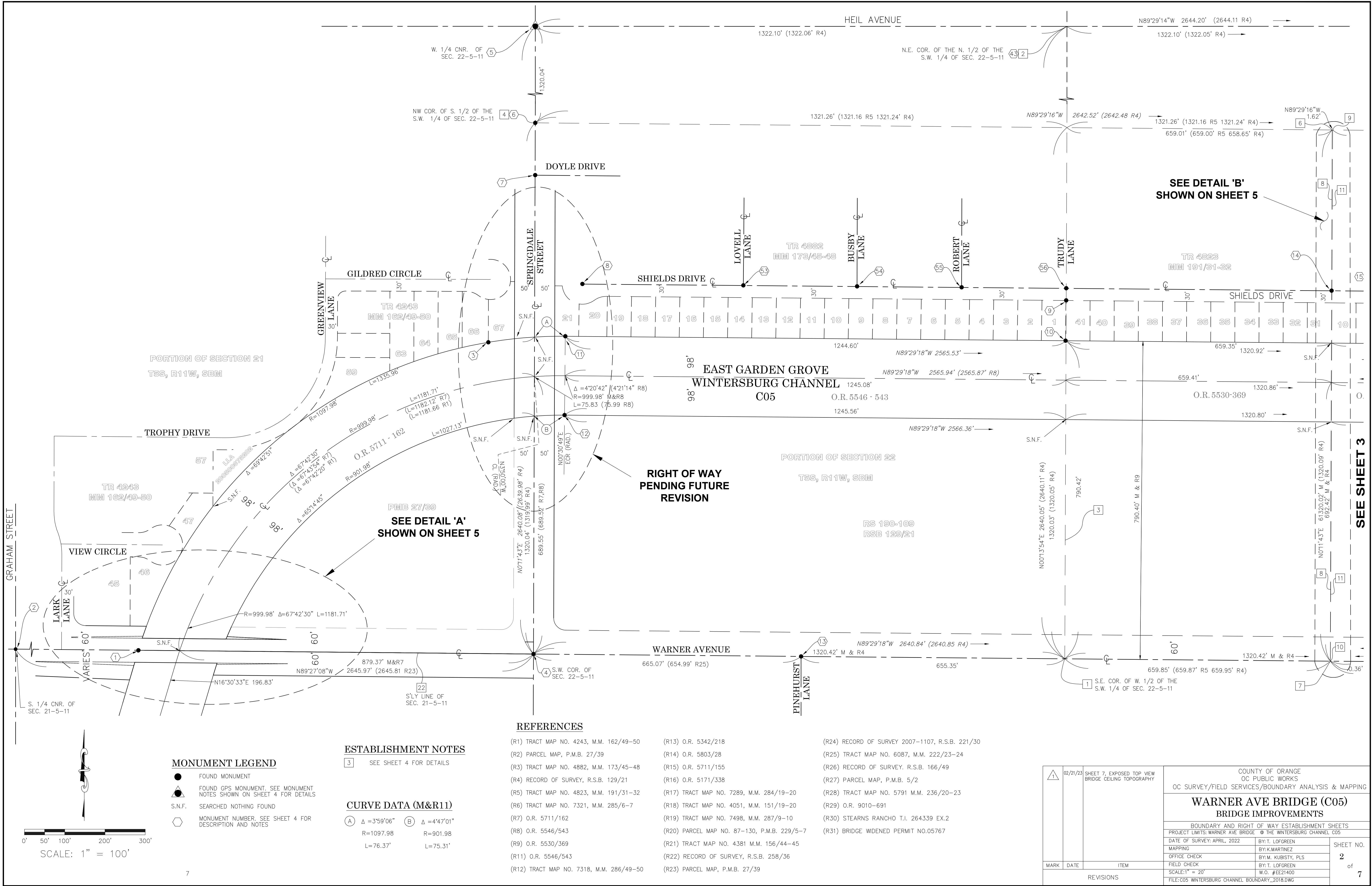
THE BASIS OF STATIONING FOR THIS PROJECT IS 100+56.70 HELD AT THE CENTERLINE INTERSECTION OF THE C05 CHANNEL & WARNER AVE PER O.C.F.C.D. FACILITY NO. C05 DWG. C05-101-12R SHEET 14

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY IS TO PROVIDE TOPOGRAPHIC DATA & RIGHT OF WAY ESTABLISHMENT IN CONJUNCTION WITH A BRIDGE IMPROVEMENT PROJECT

TOPOGRAPHIC MAPPING PROJECT

	02/21/23	SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS			
			TITLE SHEET			
			PROJECT LIMITS: WARNER AVE BRIDGE @ THE WINTERSBURG CHANNEL C05			
			DATE OF SURVEY: APRIL, 2022		BY: T. LOFGREEN	SHEET NO. 1 of 7
			MAPPING		BY: K. MARTINEZ	
			OFFICE CHECK		BY: M. KUBISTY, PLS	
			FIELD CHECK		BY: T. LOFGREEN	
			SCALE: N.T.S.		W.O. #EE21400	
			FILE: WARNER_AVE_BRIDGE_TOPO_2022.DWG		FILE: #2122PW-FP0001	
MARK	DATE	ITEM	REVISIONS			



MONUMENT LEGEND	
	FOUND MONUMENT
	FOUND GPS MONUMENT. SEE MONUMENT NOTES SHOWN ON SHEET 4 FOR DETAILS
	S.N.F. SEARCHED NOTHING FOUND
	MONUMENT NUMBER. SEE SHEET 4 FOR DESCRIPTION AND NOTES

ESTABLISHMENT NOTES	
	SEE SHEET 4 FOR DETAILS

CURVE DATA (M&R11)	
	$\Delta = 3^{\circ}59'06''$
	$\Delta = 4^{\circ}47'01''$
	R=1097.98
	R=901.98
	L=76.37'
	L=75.31'

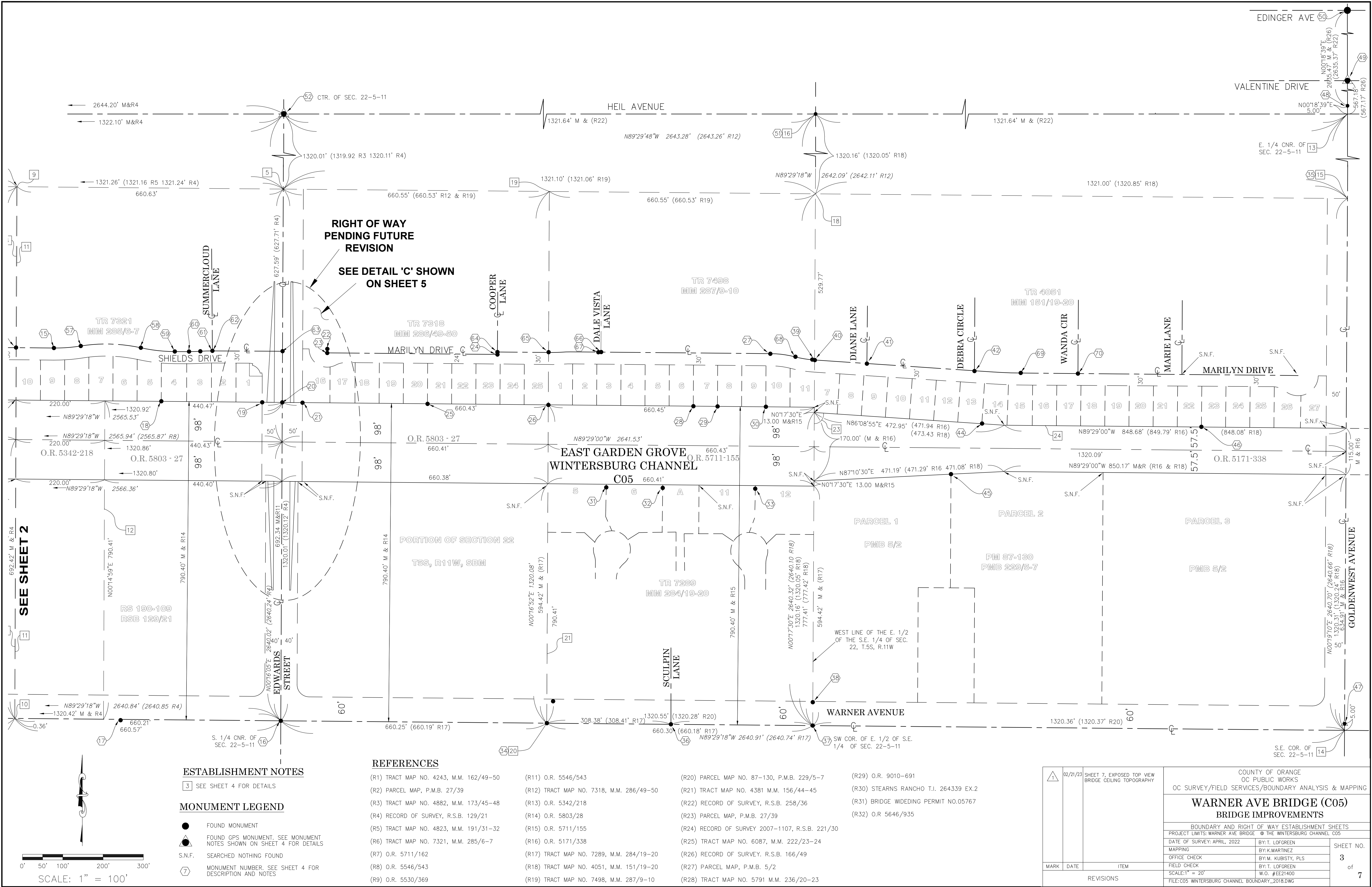
REFERENCES

- (R1) TRACT MAP NO. 4243, M.M. 162/49-50
(R2) PARCEL MAP, P.M.B. 27/39
(R3) TRACT MAP NO. 4882, M.M. 173/45-48
(R4) RECORD OF SURVEY, R.S.B. 129/21
(R5) TRACT MAP NO. 4823, M.M. 191/31-32
(R6) TRACT MAP NO. 7321, M.M. 285/6-7
(R7) O.R. 5711/162
(R8) O.R. 5546/543
(R9) O.R. 5530/369
(R11) O.R. 5546/543
(R12) TRACT MAP NO. 7318, M.M. 286/49-50

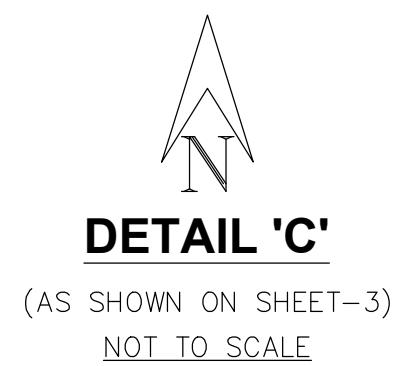
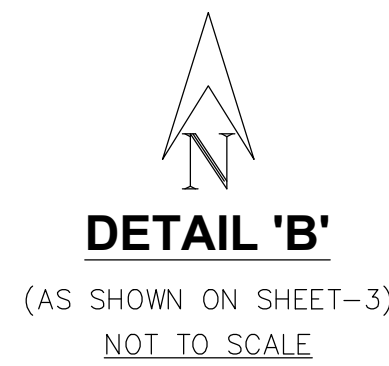
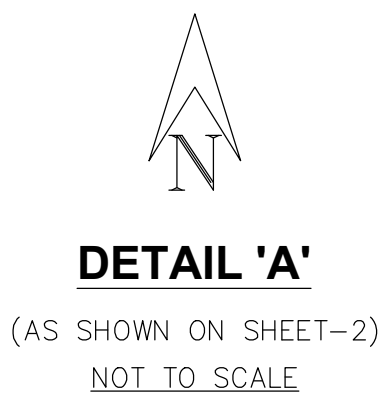
- (R13) O.R. 5342/218
(R14) O.R. 5803/28
(R15) O.R. 5711/155
(R16) O.R. 5171/338
(R17) TRACT MAP NO. 7289, M.M. 284/19-20
(R18) TRACT MAP NO. 4051, M.M. 151/19-20
(R19) TRACT MAP NO. 7498, M.M. 287/9-10
(R20) PARCEL MAP NO. 87-130, P.M.B. 229/5-7
(R21) TRACT MAP NO. 4381 M.M. 156/44-45
(R22) RECORD OF SURVEY, R.S.B. 258/36
(R23) PARCEL MAP, P.M.B. 27/39

- (R24) RECORD OF SURVEY 2007-1107, R.S.B. 221/30
(R25) TRACT MAP NO. 6087, M.M. 222/23-24
(R26) RECORD OF SURVEY, R.S.B. 166/49
(R27) PARCEL MAP, P.M.B. 5/2
(R28) TRACT MAP NO. 5791 M.M. 236/20-23
(R29) O.R. 9010-691
(R30) STEARNS RANCHO T.I. 264339 EX.2
(R31) BRIDGE WIDENED PERMIT NO.05767

	02/21/23	SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS		
			BOUNDARY AND RIGHT OF WAY ESTABLISHMENT SHEETS		
			PROJECT LIMITS: WARNER AVE BRIDGE @ THE WINTERSBURG CHANNEL C05		
MARK	DATE	ITEM	DATE OF SURVEY: APRIL, 2022	BY: T. LOFGREEN	SHEET NO. 2 of 7
			MAPPING	BY: K.MARTINEZ	
			OFFICE CHECK	BY: M. KUBISTY, PLS	
			FIELD CHECK	BY: T. LOFGREEN	
REVISIONS			SCALE: 1" = 20'	W.O. #EE21400	
			FILE: C05 WINTERSBURG CHANNEL BOUNDARY_2018.DWG		



	02/21/23	SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS		
			BOUNDARY AND RIGHT OF WAY ESTABLISHMENT SHEETS		
			PROJECT LIMITS: WARNER AVE BRIDGE @ THE WINTERSBURG CHANNEL C05		
			DATE OF SURVEY: APRIL, 2022		
MARK	DATE	ITEM	MAPPING	BY: T. LOFGREEN	SHEET NO. 3 of 7
			OFFICE CHECK	BY: M. KUBISTY, PLS	
			FIELD CHECK	BY: T. LOFGREEN	
			SCALE: 1" = 20'	W.O. #EE21400	
			FILE: C05 WINTERSBURG CHANNEL BOUNDARY_2018.DWG		
REVISIONS					



(R1) TRACT MAP NO. 4243, M.M. 162/49-50	(R11) O.R. 5546/543	(R20) PARCEL MAP NO. 87-130, P.M.B. 229/5-7	(R29) O.R. 9010-691
(R2) PARCEL MAP, P.M.B. 27/39	(R12) TRACT MAP NO. 7318, M.M. 286/49-50	(R21) TRACT MAP NO. 4381 M.M. 156/44-45	(R30) STEARNS RANCHO T.I. 264339 EX.2
(R3) TRACT MAP NO. 4882, M.M. 173/45-48	(R13) O.R. 5342/218	(R22) RECORD OF SURVEY, R.S.B. 258/36	(R31) BRIDGE WIDENING PERMIT NO.05767
(R4) RECORD OF SURVEY, R.S.B. 129/21	(R14) O.R. 5803/28	(R23) PARCEL MAP, P.M.B. 27/39	(R32) O.R. 5646/935
(R5) TRACT MAP NO. 4823, M.M. 191/31-32	(R15) O.R. 5711/155	(R24) RECORD OF SURVEY 2007-1107, R.S.B. 221/30	
(R6) TRACT MAP NO. 7321, M.M. 285/6-7	(R16) O.R. 5171/338	(R25) TRACT MAP NO. 6087, M.M. 222/23-24	
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(R8) O.R. 5546/543	(R18) TRACT MAP NO. 4051, M.M. 151/19-20	(R27) PARCEL MAP, P.M.B. 5/2	
(R9) O.R. 5530/369	(R19) TRACT MAP NO. 7498, M.M. 287/9-10	(R28) TRACT MAP NO. 5791 M.M. 236/20-23	

	02/21/23	SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS			
			BOUNDARY AND RIGHT OF WAY ESTABLISHMENT SHEETS			
			PROJECT LIMITS: WARNER AVE BRIDGE @ THE WINTERSBURG CHANNEL C05			
			DATE OF SURVEY: APRIL, 2022 BY: T. LOFGREEN MAPPING BY: K.MARTINEZ OFFICE CHECK BY: M. KUBISTY, PLS FIELD CHECK BY: T. LOFGREEN SCALE: 1" = 20' W.O. #EE21400 FILE: C05 WINTERSBURG CHANNEL BOUNDARY_2018.DWG			
MARK	DATE	ITEM	ITEM	SHEET NO. 5 of 7		
REVISIONS						

SYMBOL

Benchmark

Bus Stop

Control Box Undefined

Control Point

Fire Hydrant

Gate, Double

Gate, Single

Light Pole, Single

Manhole Electrical

Manhole Sewer

Manhole Telephone

Monitor Well

Meter Water

Pier Column

Post

Pull Box Cable TV

Pull Box Telecommunication

Pull Box Traffic

Pull Box Undefined

Sign Board

Sign Post

Tree

Tree, Palm

Utility Pole, No Light

Valve Gas

Valve Irrigation

SYMBOL

Valve Water

Vault Communication

Vault Electrical

Vault Gas

Vault Traffic

Vault Water

Vent Pipe

LINE PATTERN KEY

Block Wall

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Exposed Pipe

Fence Chainlink

Flowline

Grade Line

Hinge Point

AREA PATTERN KEY

Concrete

Brick

Dirt

Grass

Gravel

Rip Rap

ABBREVIATION

CL

Centerline

CP

Control Point

DWY

Driveway

EL

Elevation

FL

Flowline

OH

Overhead

PP

Power Pole

R/W

Right of Way

SF

Soffit

TW

Top of Wall

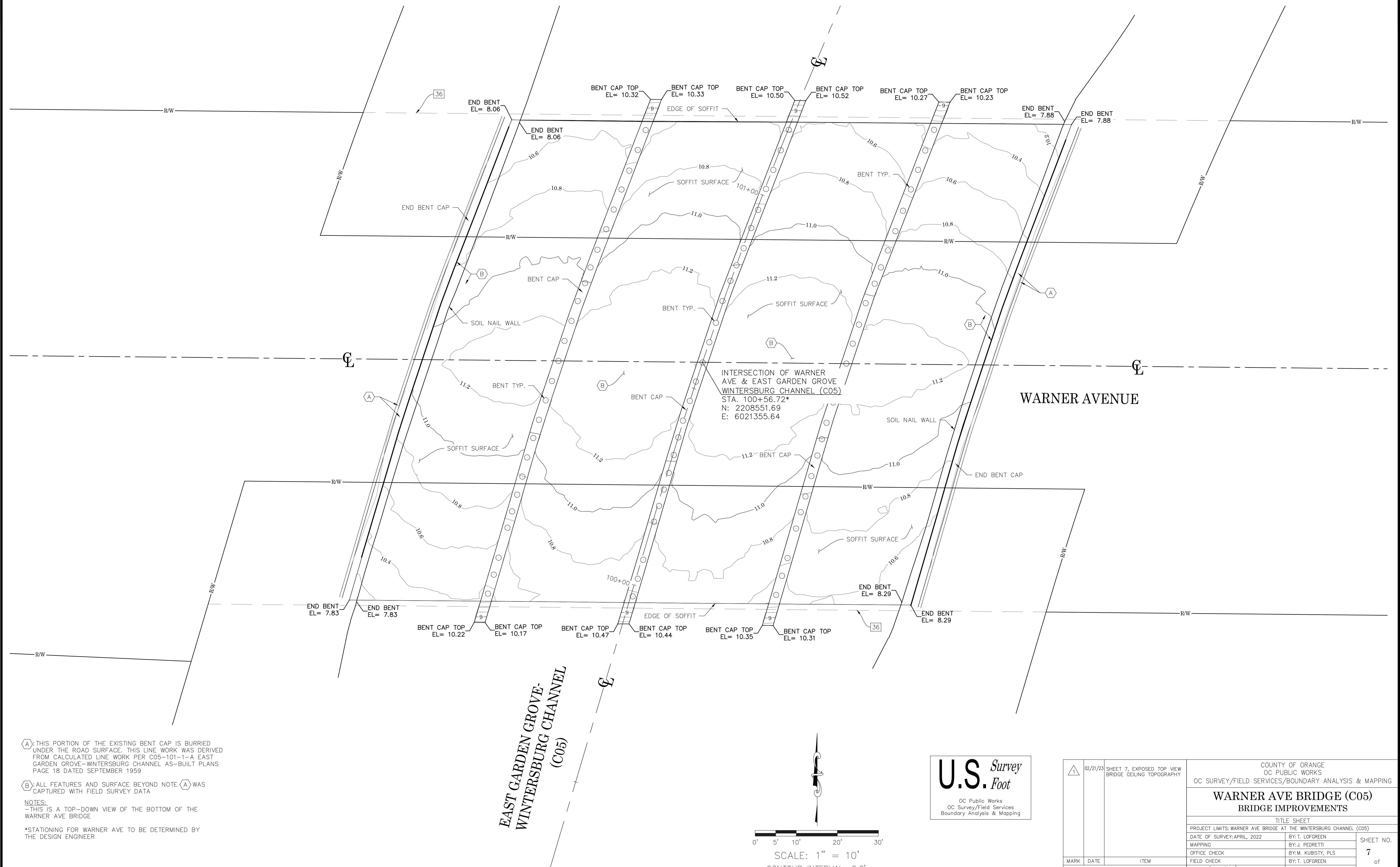
The main map illustrates the proposed bridge improvements for Warner Avenue over the Wintersburg Channel (C05). The plan view shows Warner Avenue with its centerline and right-of-way (R/W) lines. The bridge structure is shown with various components including walls, pipes, and access roads. Stationing is provided along the bridge and approach roads, ranging from STA 98+00 to STA 105+00. Elevation data is shown for various points, including top of wall (TW.EL.), soffit (SF.EL.), and ground (G.EL.). The map also shows existing features like trees, manholes, and utility poles. A north arrow and a graphic scale (1" = 30') are included. A table of revisions is located in the bottom right corner.

MARK	DATE	ITEM
	02/21/23	SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS			
TOPOGRAPHIC MAP			
PROJECT LIMITS: WARNER AVE BRIDGE @ THE WINTERSBURG CHANNEL C05			
DATE OF SURVEY: APRIL, 2022	BY: T. LOFGREEN	SHEET NO. 6 of 7	
MAPPING	BY: K. MARTINEZ		
OFFICE CHECK	BY: M. KUBISTY, PLS		
FIELD CHECK	BY: T. LOFGREEN		
SCALE: 1" = 20'	W.O. #EE21400	FILE #2122PW-FP0001	
FILE: WARNER_AVE_BRIDGE_TOPO_2022.DWG			

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

TOP VIEW OF BRIDGE SOFFIT/CEILING EXPOSED



(A): THIS PORTION OF THE EXISTING BENT CAP IS BURIED UNDER THE ROAD SURFACE. THIS LINE WORK WAS DERIVED FROM CALCULATED LINE WORK PER C05-101-1-A EAST GARDEN GROVE-WINTERSBURG CHANNEL AS-BUILT PLANS PAGE 18 DATED SEPTEMBER 1959

(B): ALL FEATURES AND SURFACE BEYOND NOTE (A) WAS CAPTURED WITH FIELD SURVEY DATA

NOTES:
- THIS IS A TOP-DOWN VIEW OF THE BOTTOM OF THE WARNER AVE BRIDGE

*STATIONING FOR WARNER AVE TO BE DETERMINED BY THE DESIGN ENGINEER

02/21/23		SHEET 7, EXPOSED TOP VIEW BRIDGE CEILING TOPOGRAPHY	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			WARNER AVE BRIDGE (C05) BRIDGE IMPROVEMENTS	
			TITLE SHEET	
			PROJECT LIMITS: WARNER AVE BRIDGE AT THE WINTERSBURG CHANNEL (C05)	
			DATE OF SURVEY: APRIL, 2022	BY: T. LOFGREEN
			MAPPING	BY: J. PEDRETTI
			OFFICE CHECK	BY: M. KUBISTY, PLS
			FIELD CHECK	BY: T. LOFGREEN
			SCALE: 1" = 10'	W.O. #EE21400
			FILE #2122PW-FP0001	
			FILE: WARNER_BRIDGE_TOPO_2023.DWG	
MARK	DATE	ITEM	REVISIONS	

SHEET NO.
7
of
7