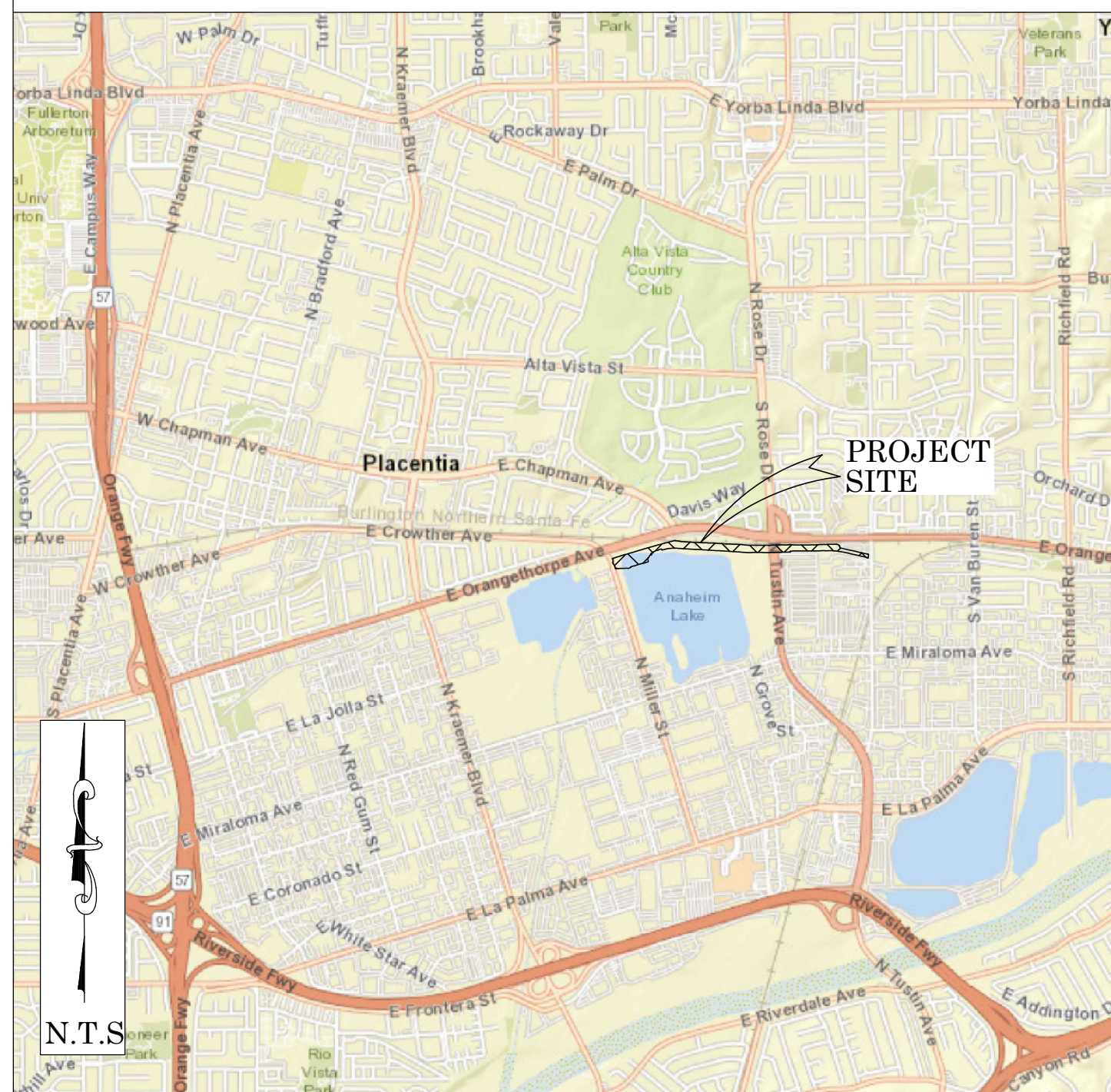




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
ATWOOD CHANNEL
REHABILITATION



LOCATION MAP



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 27 DAY OF JUNE, 2023.

Jesom Moreno
JESOM MORENO, PLS.

SENIOR LAND SURVEYOR

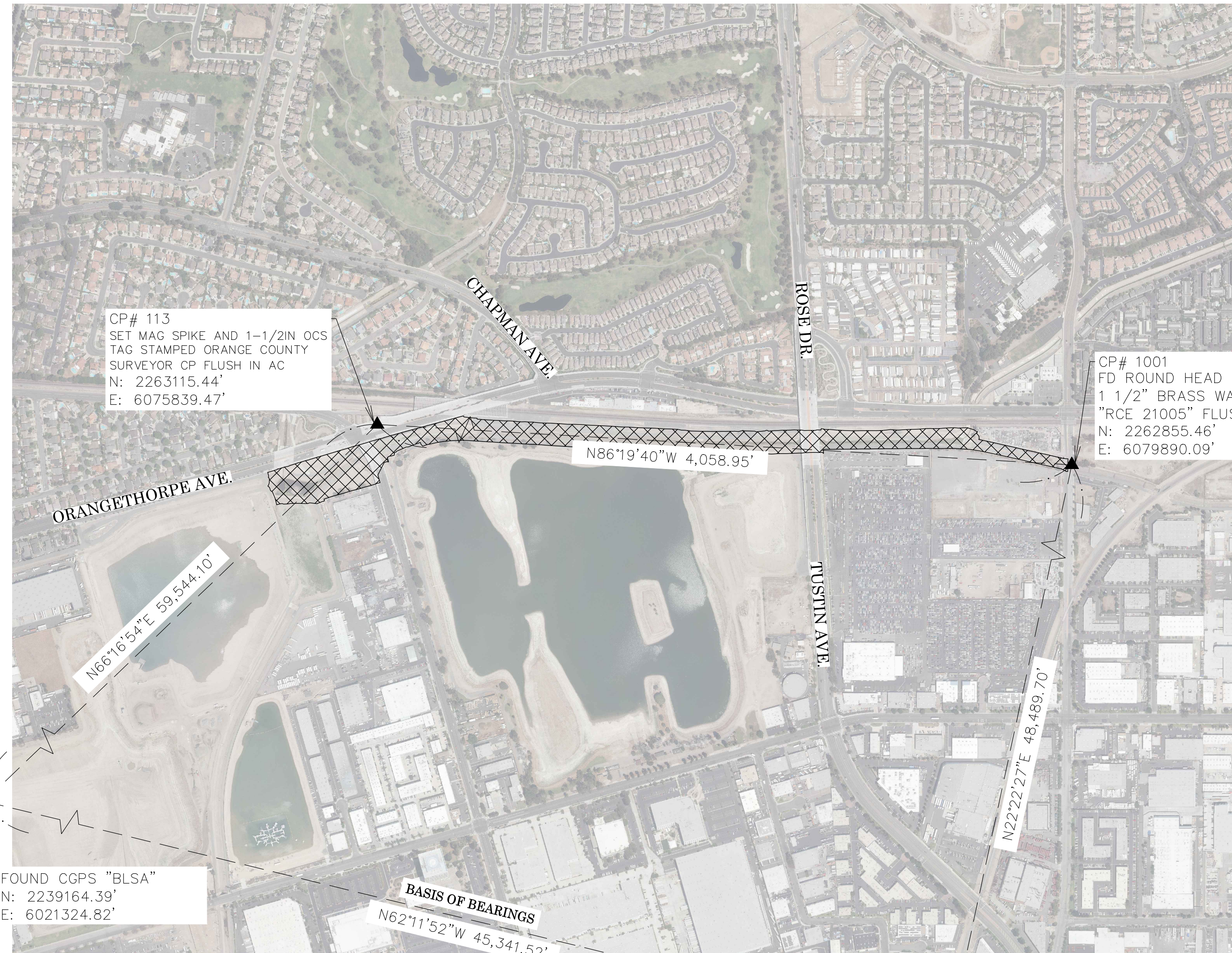
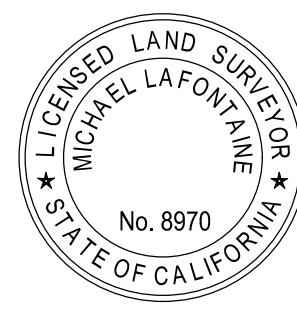


DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 27 DAY OF JUNE, 2023.

Michael LaFontaine
MICHAEL LAFONTAINE, PLS.

DEPUTY COUNTY SURVEYOR



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 CGPS STATIONS (BLSA) AND (SACY) BEING NORTH 62°11'52\"/>

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 1.0000849.
COMBINATION FACTOR WAS HELD AT POINT NUMBER 113
N: 2263115.436', E: 6075839.473', ELEVATION= 232.155'

VERTICAL DATUM

O.C.S. BM. 404-22-86 ELEV. = 241.756' YEAR LEVELED: 2006
NAVD 1988 (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.

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET 1	1	TITLE SHEET
SHEET 2-5		ALIGNMENT SHEET
SHEETS 6-10		TOPOGRAPHIC MAP

BASIS OF STATIONING

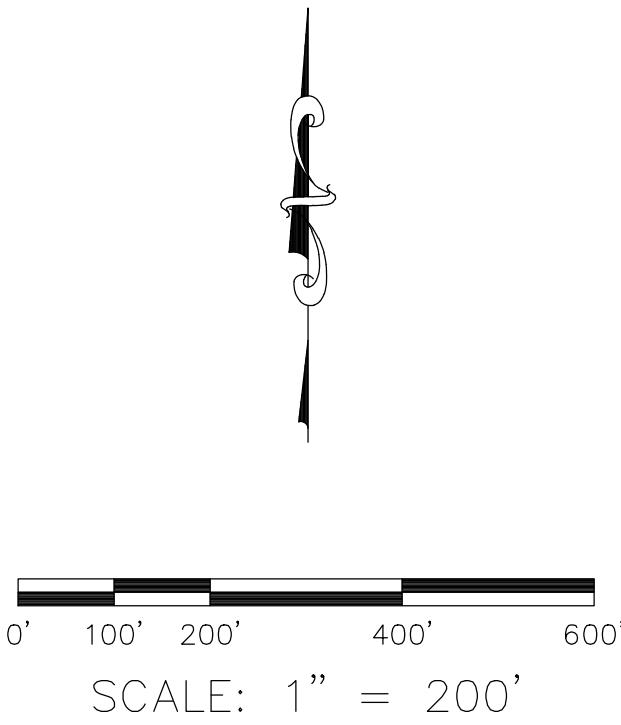
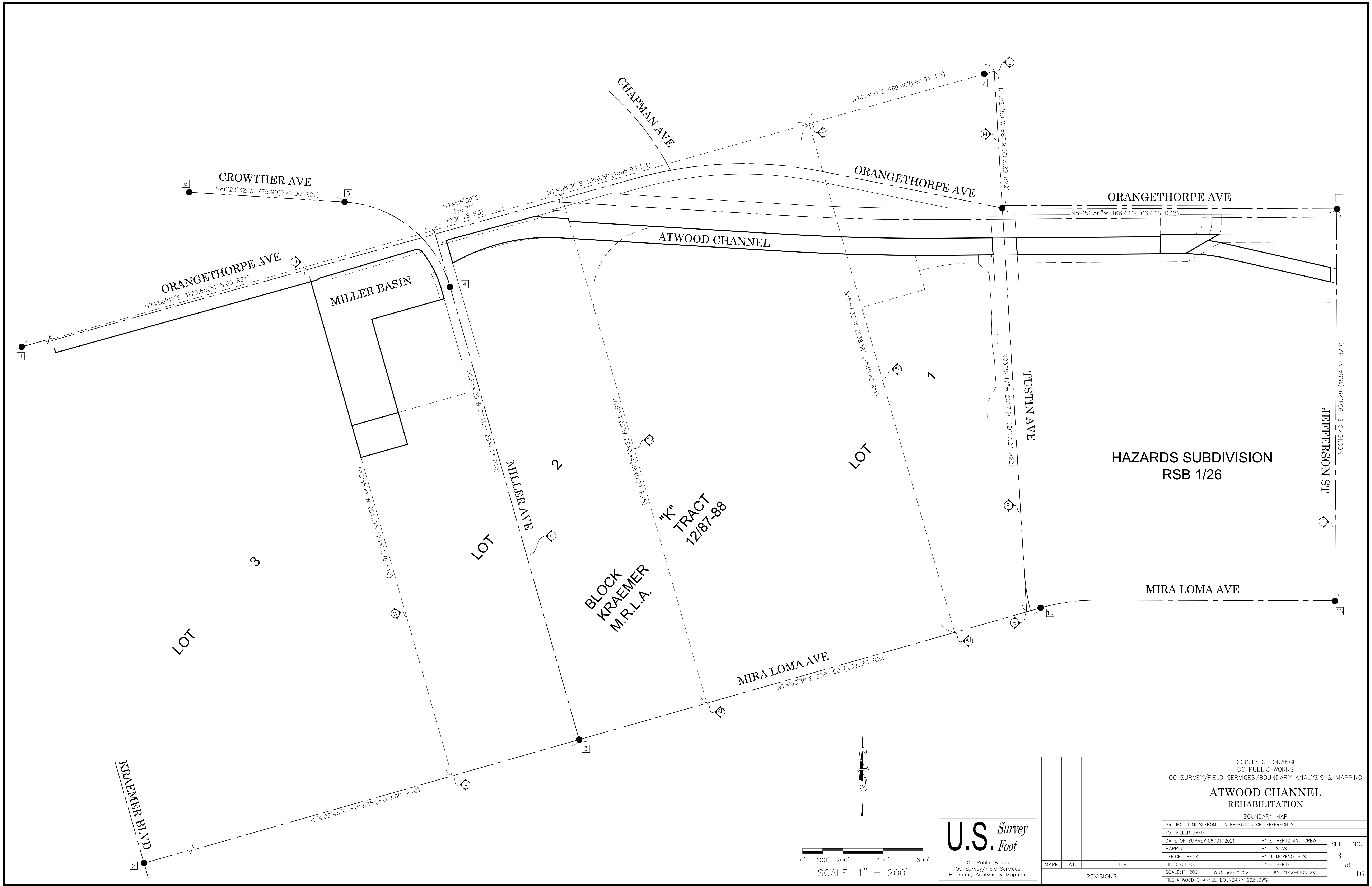
THE BASIS FOR STATIONING IS STA 0+00 PER RECORD PLAN E04-101-1A DATED NOV. 1951 REVISION DATE AUG. 2008 HELD AT THE MOST SOUTHERLY STRUCTURE SHOWN HEREIN.

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR THIS PORTION OF ATWOOD CHANNEL (E04).

TOPOGRAPHIC MAPPING PROJECT

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
ATWOOD CHANNEL REHABILITATION			
TITLE SHEET			
PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST		SHEET NO.	
DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW	
MAPPING		BY: J. ISLAS	
OFFICE CHECK		BY: J. MORENO, PLS	
FIELD CHECK		BY: E. HERTZ	
SCALE: N.T.S.		W.O. #EF21252	
FILE: #2021PW-ENG0003		FILE: ATWOOD_CHANNEL_TOPD_2021.DWG	
MARK	DATE	ITEM	REVISIONS



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

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			ATWOOD CHANNEL REHABILITATION				
			BOUNDARY MAP				
			PROJECT LIMITS: FROM : INTERSECTION OF JEFFERSON ST. TO : MILLER BASIN				
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ AND CREW		SHEET NO. 3 of 16
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ		
			SCALE: 1"=200'		W.O. #EF21252		
			REVISIONS		FILE # 2021PW-ENG0003 FILE: ATWOOD_CHANNEL_BOUNDARY_2021.DWG		

NOTES

ALL BOUNDARY LINES NOT SHOWN IN BOLD ARE FOR GRAPHICAL REPRESENTATION ONLY.

RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

REFERENCE DOCUMENTS IN THE REFERENCE LEGEND ARE LIVE HYPERLINKS TO SAID DOCUMENT.

MONUMENT SYMBOLS CONTAIN LIVE HYPERLINKS TO IMAGES, IF THEY EXIST, OF RESPECTIVE MONUMENT.

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 CGPS STATIONS (BLSA) AND (SACY) BEING NORTH 62°11'52" 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.

LEGEND

● FOUND MONUMENT AS NOTED

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 DISTANCE MULTIPLY A GRID DISTANCE BY 1.00000849.

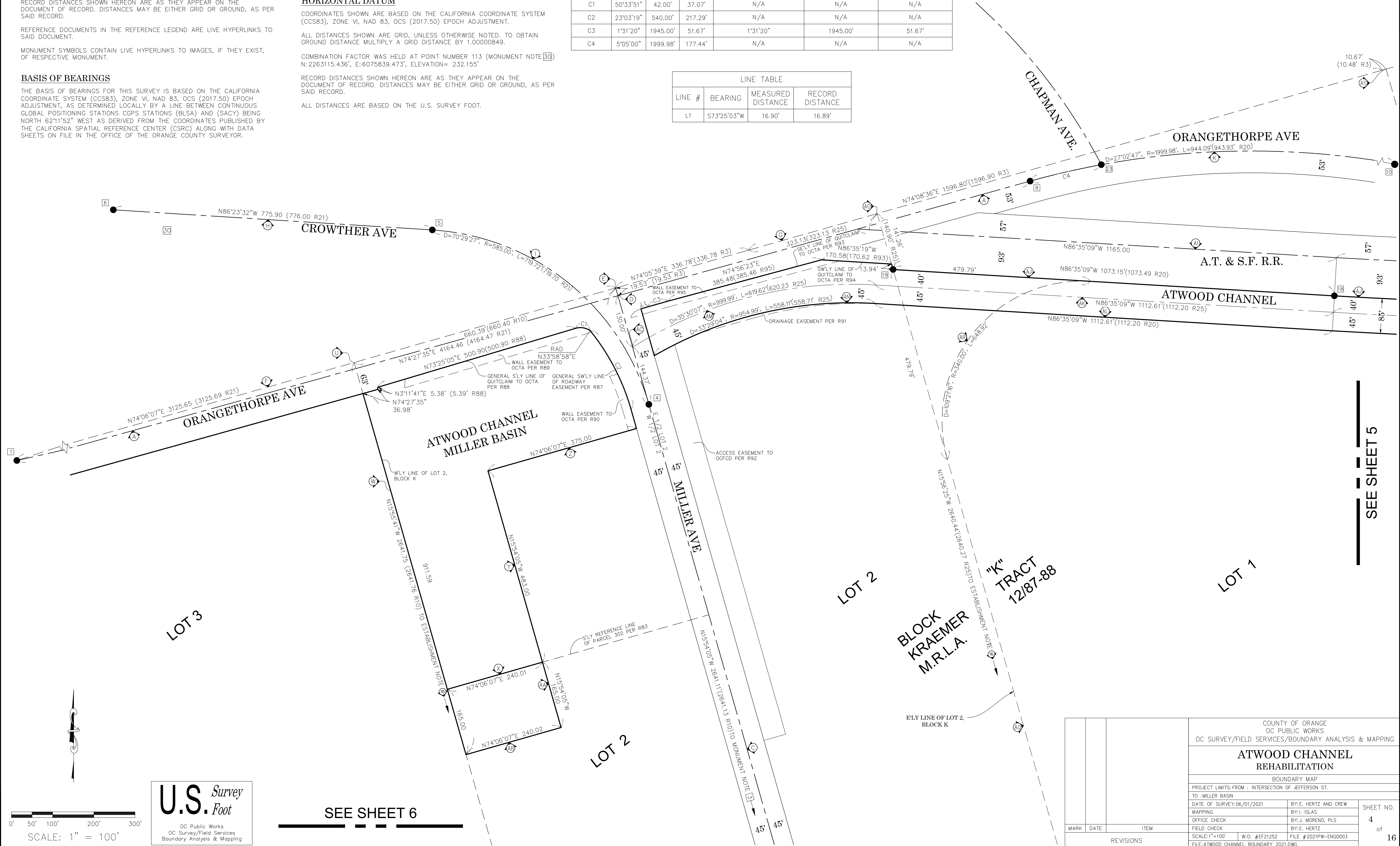
COMBINATION FACTOR WAS HELD AT POINT NUMBER 113 (MONUMENT NOTE 39) N: 2263115.436', E: 6075839.473', ELEVATION= 232.155'

RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

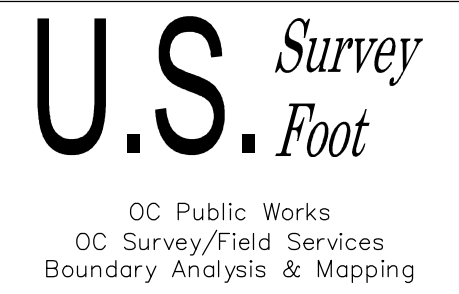
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C1	50°33'51"	42.00'	37.07'	N/A	N/A	N/A
C2	23°03'19"	540.00'	217.29'	N/A	N/A	N/A
C3	1°31'20"	1945.00'	51.67'	1°31'20"	1945.00'	51.67'
C4	5°05'00"	1999.98'	177.44'	N/A	N/A	N/A

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	S73°25'03"W	16.90'	16.89'

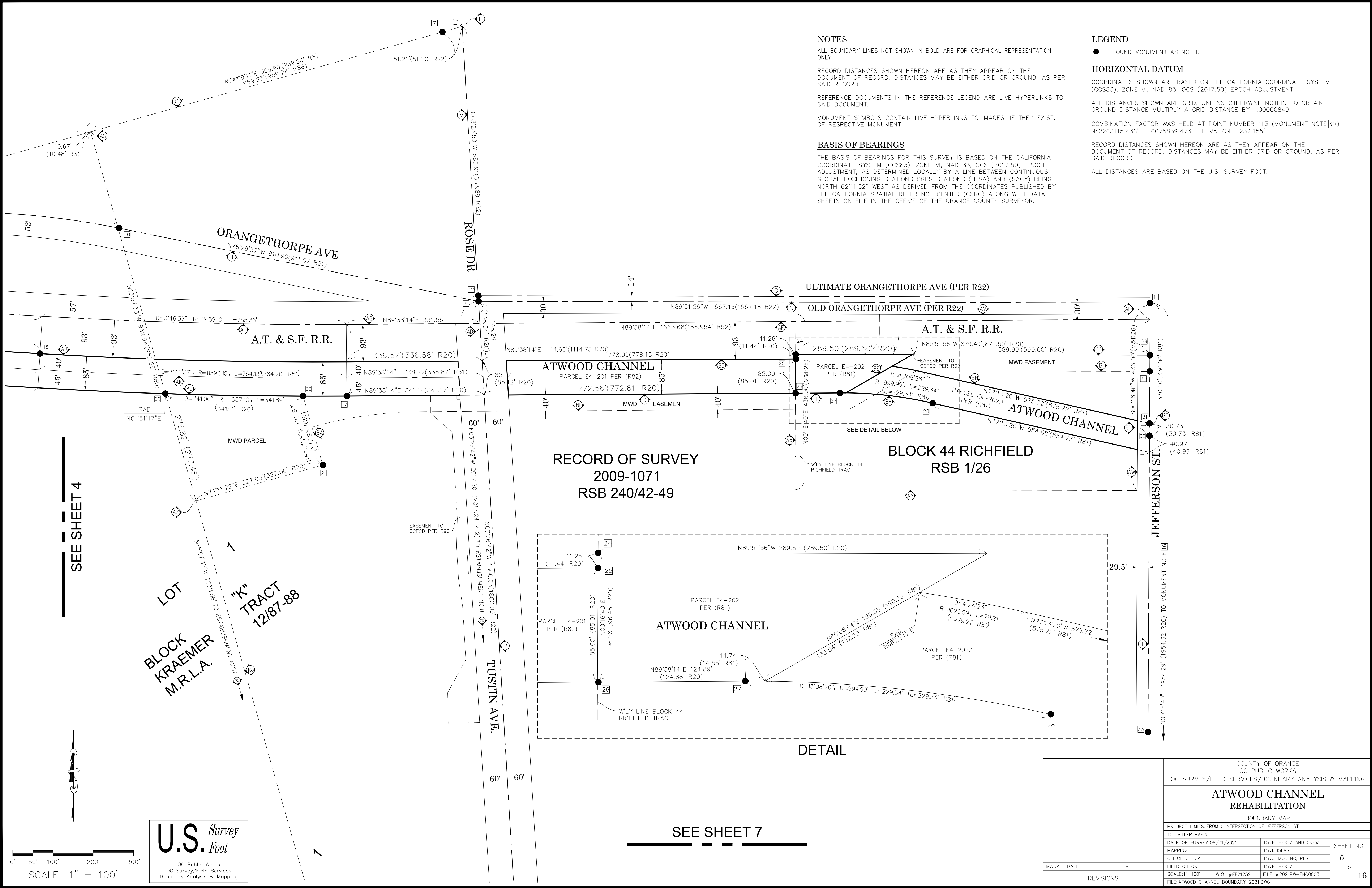


SEE SHEET 5



SEE SHEET 6

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		ATWOOD CHANNEL REHABILITATION				
		BOUNDARY MAP				
		PROJECT LIMITS: FROM : INTERSECTION OF JEFFERSON ST. TO : MILLER BASIN				
		DATE OF SURVEY: 06/01/2021		BY: E. HERTZ AND CREW		SHEET NO. 4 of 16
		MAPPING		BY: I. ISLAS		
		OFFICE CHECK		BY: J. MORENO, PLS		
		FIELD CHECK		BY: E. HERTZ		
		SCALE: 1"=100'		W.O. #EF21252		
				FILE: # 2021PW-ENG0003		
		FILE: ATWOOD_CHANNEL_BOUNDARY_2021.DWG				
MARK	DATE	ITEM		REVISIONS		



SEE SHEET 4

MILLER AVE

"K"
TRACT
12/87-88

BLOCK
KRAEMER
M.R.L.A.

LOT 2

LOT 7

LOT 3

MIRA LOMA AVE

KRAEMER BLVD

SEE SHEET 7

NOTES

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LEGEND

● FOUND MONUMENT AS NOTED

HORIZONTAL DATUM

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

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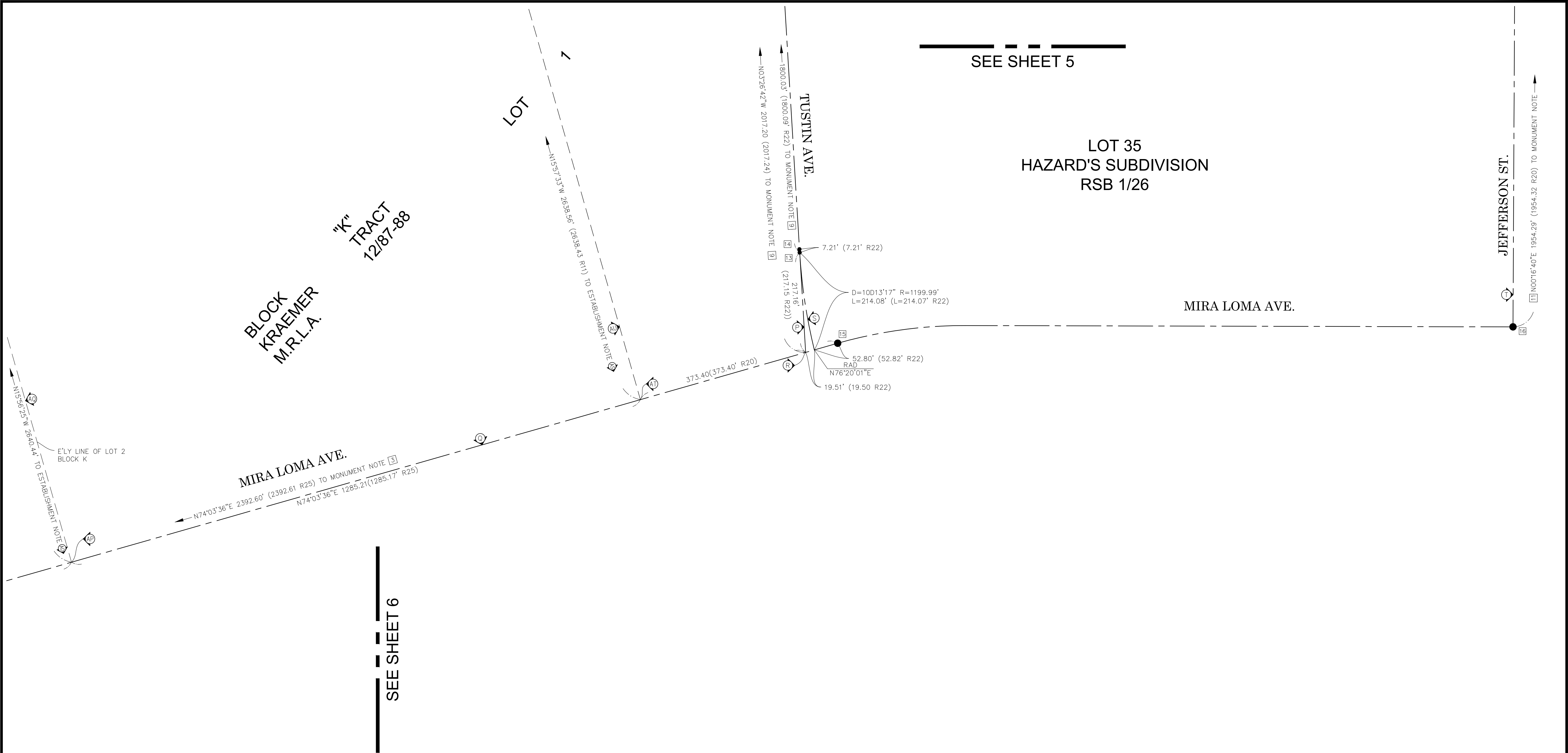
0' 50' 100' 200' 300'
SCALE: 1" = 100'

U.S. Survey

Foot

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

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			ATWOOD CHANNEL REHABILITATION				
			BOUNDARY MAP				
			PROJECT LIMITS: FROM : INTERSECTION OF JEFFERSON ST. TO : MILLER BASIN				
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ AND CREW		SHEET NO. 6 of 16
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ		
			SCALE: 1"=100'		W.O. #EF21252	FILE #2021PW-ENG0003	
			REVISIONS		FILE: ATWOOD_CHANNEL_BOUNDARY_2021.DWG		



NOTES

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LEGEND

● FOUND MONUMENT AS NOTED

HORIZONTAL DATUM

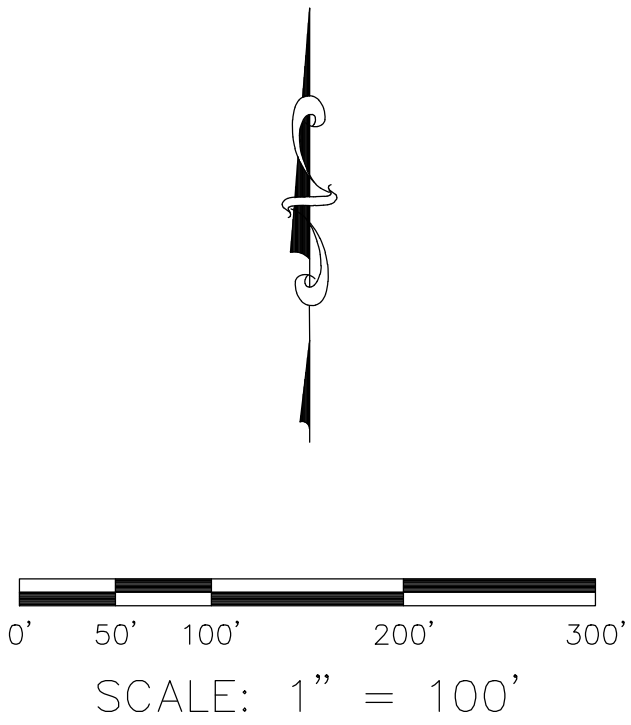
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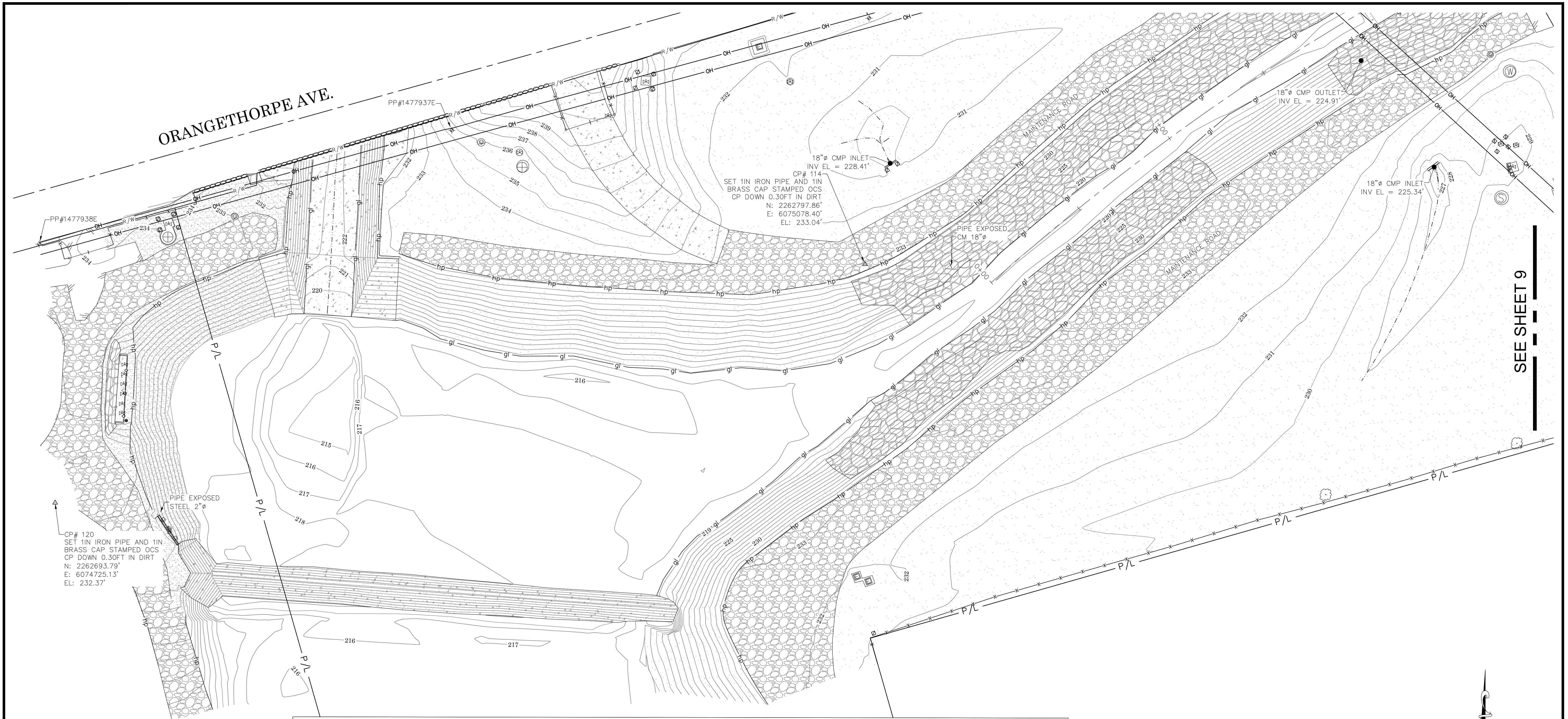
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.



U.S. Survey Foot

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

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			ATWOOD CHANNEL REHABILITATION				
			BOUNDARY MAP				
			PROJECT LIMITS: FROM : INTERSECTION OF JEFFERSON ST. TO : MILLER BASIN				
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ AND CREW		
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ		
			SCALE: 1"=100'		W.O. #EF21252	FILE #2021PW-ENG0003	SHEET NO. 7 of 16
			FILE: ATWOOD_CHANNEL_BOUNDARY_2021.DWG				



SEE SHEET 9

LEGEND

SYMBOL

- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Gate, Double
- Gate, Single
- Grate Inlet
- Manhole Sewer
- Manhole Storm Drain
- Manhole Telephone
- Manhole Undefined
- Manhole Water
- Monitor Well

SYMBOL

- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Undefined
- Sign Post
- Tree
- Utility Pole, Steel
- Utility Pole, Underground
- Valve Gas
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe

ABBREVIATION

- AC Asphalt Concrete
- CLR Clearance
- CMP Corrugated Metal Pipe
- CONC Concrete
- CP Control Point
- EL Elevation
- ENC Encroachment
- FD Found
- INV Invert
- PP Power Pole
- RCP Reinforced Concrete Pipe

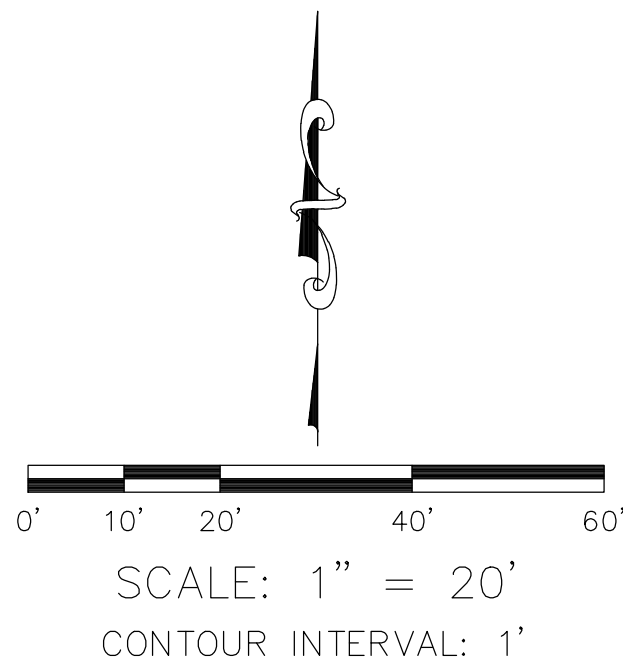
LINE PATTERN KEY

- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Fence Post and Wire
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Overhead Wires
- Pipe Exposed
- Right of Way
- Striping

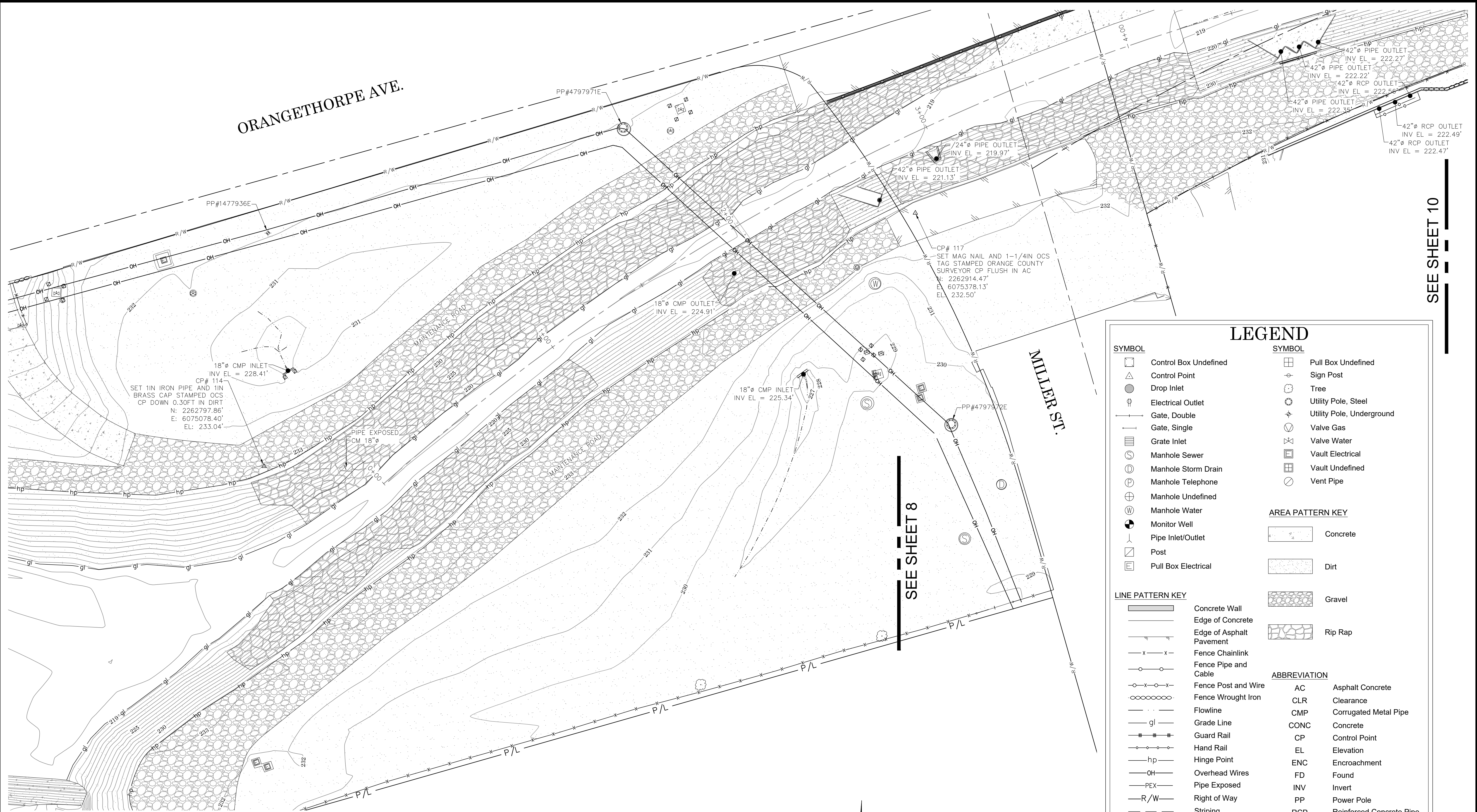
AREA PATTERN KEY

- Concrete
- Dirt
- Gravel
- Rip Rap

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			
ATWOOD CHANNEL REHABILITATION			
TOPOGRAPHIC MAP			
PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST		SHEET NO.	
DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW	
MAPPING		BY: I. ISLAS	
OFFICE CHECK		BY: J. MORENO, PLS	
FIELD CHECK		BY: E. HERTZ	
SCALE: 1" = XX'		W.O. #EF21252	FILE #2021PW-ENG0003
FILE: ATWOOD_CHANNEL_TOPO_2021.DWG			
MARK	DATE	ITEM	
REVISIONS			



ORANGETHORPE AVE.

MILLER ST.

SEE SHEET 8

SEE SHEET 10

LEGEND

SYMBOL	SYMBOL
	Control Box Undefined
	Control Point
	Drop Inlet
	Electrical Outlet
	Gate, Double
	Gate, Single
	Grate Inlet
	Manhole Sewer
	Manhole Storm Drain
	Manhole Telephone
	Manhole Undefined
	Manhole Water
	Monitor Well
	Pipe Inlet/Outlet
	Post
	Pull Box Electrical
	Pull Box Undefined
	Sign Post
	Tree
	Utility Pole, Steel
	Utility Pole, Underground
	Valve Gas
	Valve Water
	Vault Electrical
	Vault Undefined
	Vent Pipe

AREA PATTERN KEY

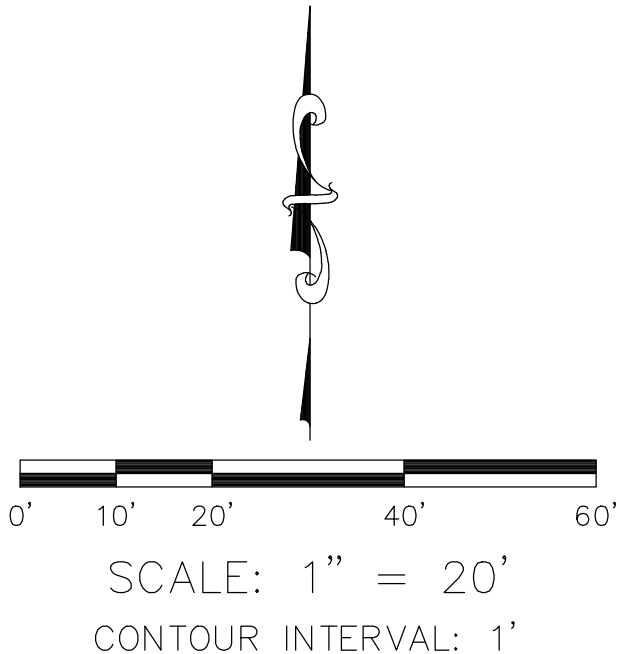
	Concrete
	Dirt
	Gravel
	Rip Rap

LINE PATTERN KEY

	Concrete Wall
	Edge of Concrete
	Edge of Asphalt Pavement
	Fence Chainlink
	Fence Pipe and Cable
	Fence Post and Wire
	Fence Wrought Iron
	Flowline
	Grade Line
	Guard Rail
	Hand Rail
	Hinge Point
	Overhead Wires
	Pipe Exposed
	Right of Way
	Striping

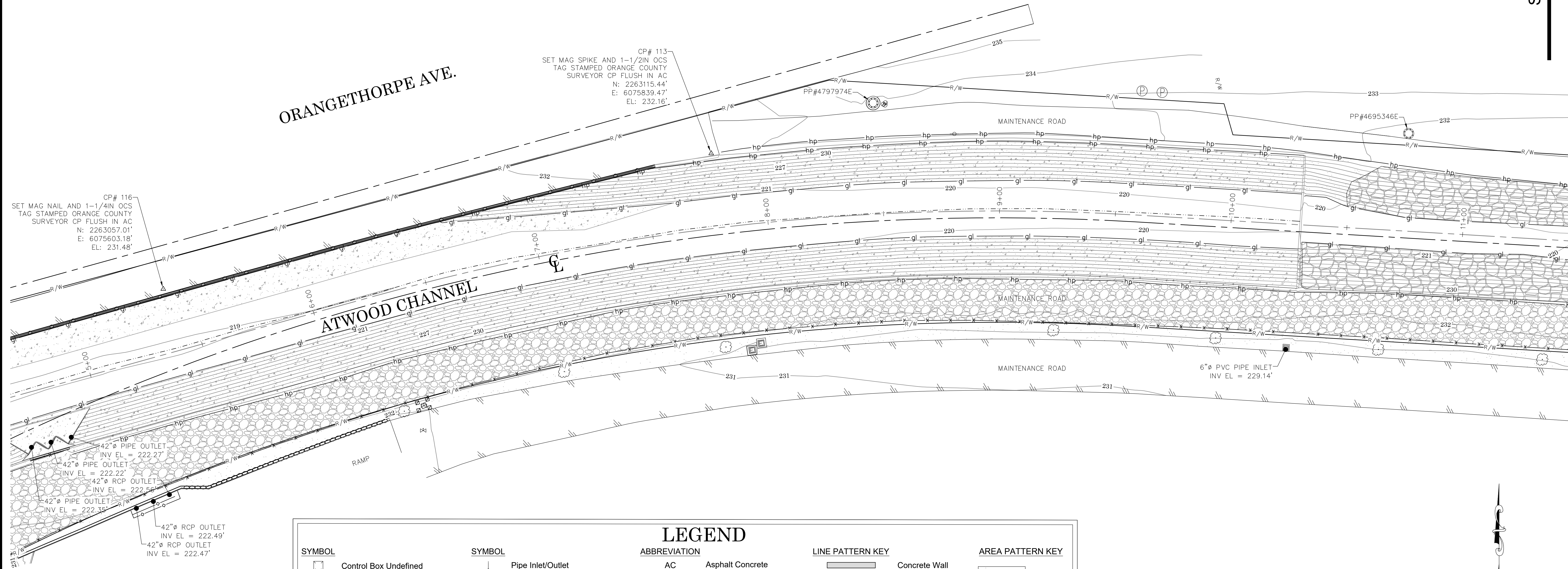
ABBREVIATION

AC	Asphalt Concrete
CLR	Clearance
CMP	Corrugated Metal Pipe
CONC	Concrete
CP	Control Point
EL	Elevation
ENC	Encroachment
FD	Found
INV	Invert
PP	Power Pole
RCP	Reinforced Concrete Pipe



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

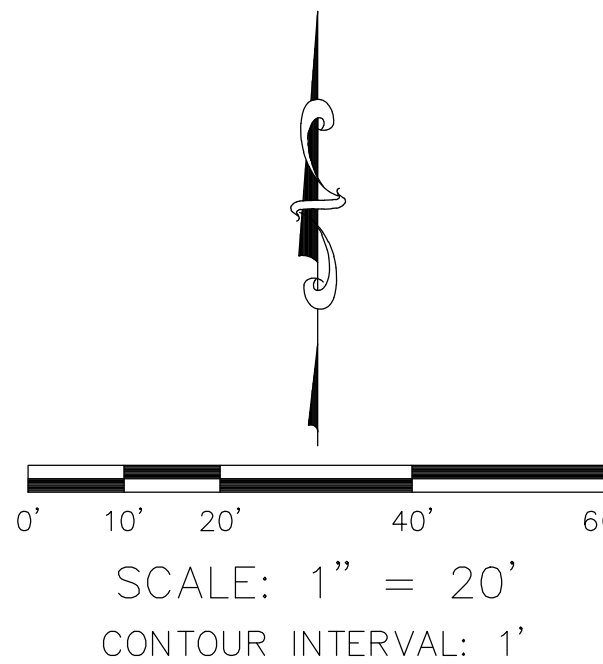
			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			ATWOOD CHANNEL REHABILITATION		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST		
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW
			MAPPING		BY: I. ISLAS
			OFFICE CHECK		BY: J. MORENO, PLS
			FIELD CHECK		BY: E. HERTZ
			SCALE: 1" = XX'		W.O. #EF21252
			FILE: ATWOOD_CHANNEL_TOPD_2021.DWG		FILE # 2021PW-ENG0003
MARK	DATE	ITEM	REVISIONS		
			SHEET NO. 9 of 16		



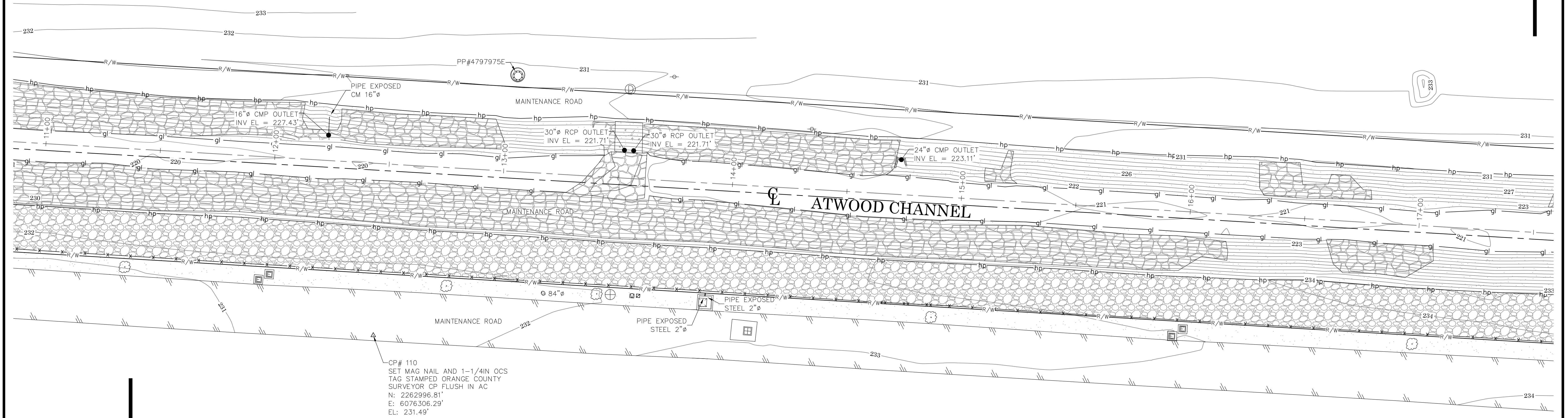
SEE SHEET 9

SYMBOL		SYMBOL		ABBREVIATION		LINE PATTERN KEY		AREA PATTERN KEY	
	Control Box Undefined		Pipe Inlet/Outlet	AC	Asphalt Concrete		Concrete Wall		Concrete
	Control Point		Post	CLR	Clearance		Edge of Concrete		
	Drop Inlet		Pull Box Electrical	CMP	Corrugated Metal Pipe		Edge of Asphalt Pavement		
	Electrical Outlet		Pull Box Undefined	CONC	Concrete		Fence Chainlink		
	Gate, Double		Sign Post	CP	Control Point		Fence Pipe and Cable		
	Gate, Single		Tree	EL	Elevation		Fence Post and Wire		
	Grate Inlet		Utility Pole, Steel	ENC	Encroachment		Fence Wrought Iron		
	Manhole Sewer		Utility Pole, Underground	FD	Found		Flowline		
	Manhole Storm Drain		Valve Gas	INV	Invert		Grade Line		
	Manhole Telephone		Valve Water	PP	Power Pole		Guard Rail		
	Manhole Undefined		Vault Electrical	RCP	Reinforced Concrete Pipe		Hand Rail		
	Manhole Water		Vault Undefined				Hinge Point		
	Monitor Well		Vent Pipe				Overhead Wires		

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				
		ATWOOD CHANNEL REHABILITATION				
		TOPOGRAPHIC MAP				
		PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST				
		DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW		SHEET NO. 10 of 16
		MAPPING		BY: I. ISLAS		
OFFICE CHECK		BY: J. MORENO, PLS				
FIELD CHECK		BY: E. HERTZ				
MARK	DATE	ITEM	SCALE: 1" = XX'	W.O. #EF21252	FILE #2021PW-ENG0003	
REVISIONS			FILE: ATWOOD_CHANNEL_TOPD_2021.DWG			

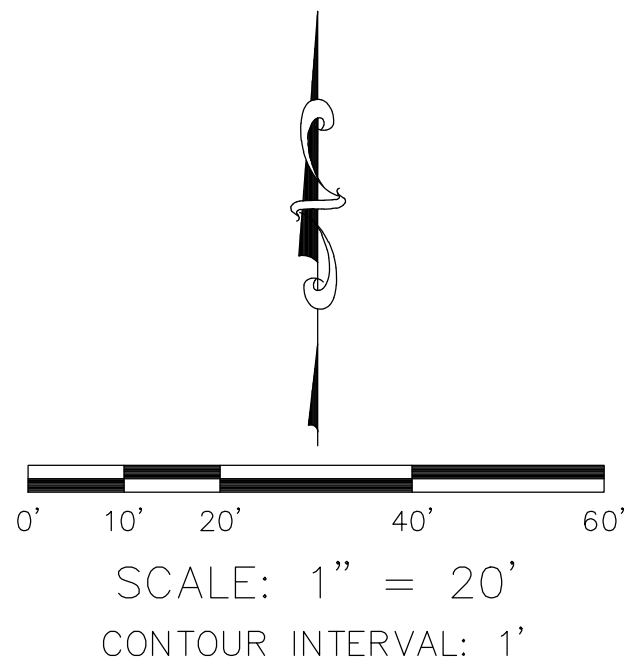


CP# 110
SET MAG NAIL AND 1-1/4IN OCS
TAG, STAMPED ORANGE COUNTY
SURVEYOR CP FLUSH IN AC
N: 2262996.81'
E: 6076306.29'
EL: 231.49'

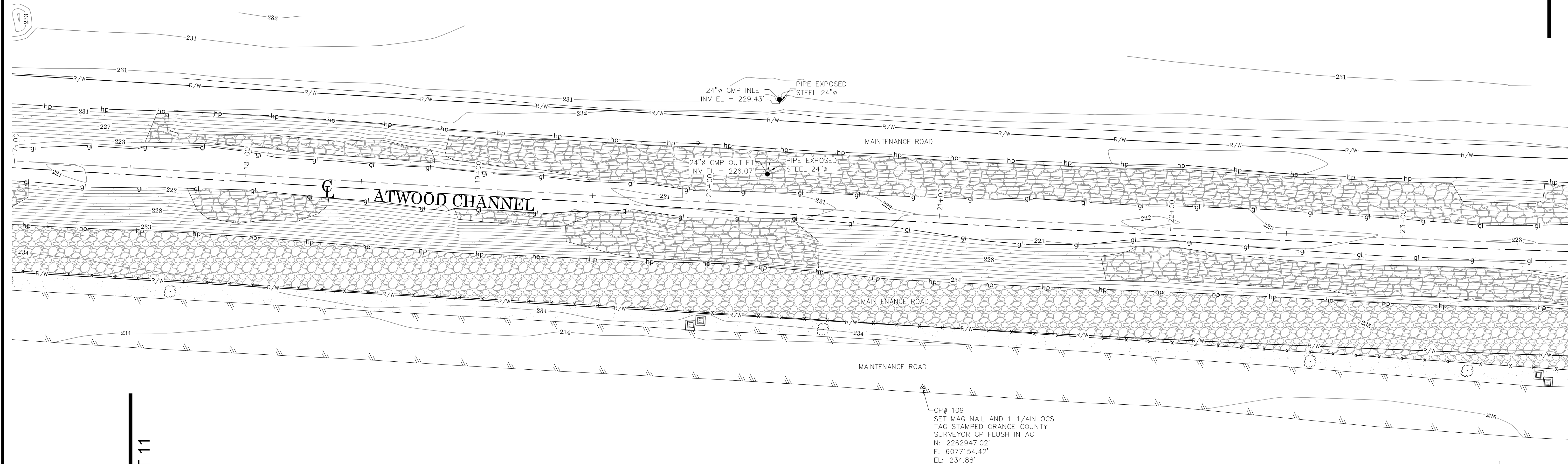
LEGEND

SYMBOL		SYMBOL		ABBREVIATION		LINE PATTERN KEY		AREA PATTERN KEY	
	Control Box Undefined		Pipe Inlet/Outlet	AC	Asphalt Concrete		Concrete Wall		Concrete
	Control Point		Post	CLR	Clearance		Edge of Concrete		
	Drop Inlet		Pull Box Electrical	CMP	Corrugated Metal Pipe		Edge of Asphalt Pavement		Dirt
	Electrical Outlet		Pull Box Undefined	CONC	Concrete		Fence Chainlink		Gravel
	Gate, Double		Sign Post	CP	Control Point		Fence Pipe and Cable		Rip Rap
	Gate, Single		Tree	EL	Elevation		Fence Post and Wire		
	Grate Inlet		Utility Pole, Steel	ENC	Encroachment		Fence Wrought Iron		
	Manhole Sewer		Utility Pole, Underground	FD	Found		Flowline		
	Manhole Storm Drain		Valve Gas	INV	Invert		Grade Line		
	Manhole Telephone		Valve Water	PP	Power Pole		Guard Rail		
	Manhole Undefined		Vault Electrical	RCP	Reinforced Concrete Pipe		Hand Rail		
	Manhole Water		Vault Undefined				Hinge Point		
	Monitor Well		Vent Pipe				Overhead Wires		
							Pipe Exposed		
							Right of Way		
							Striping		

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



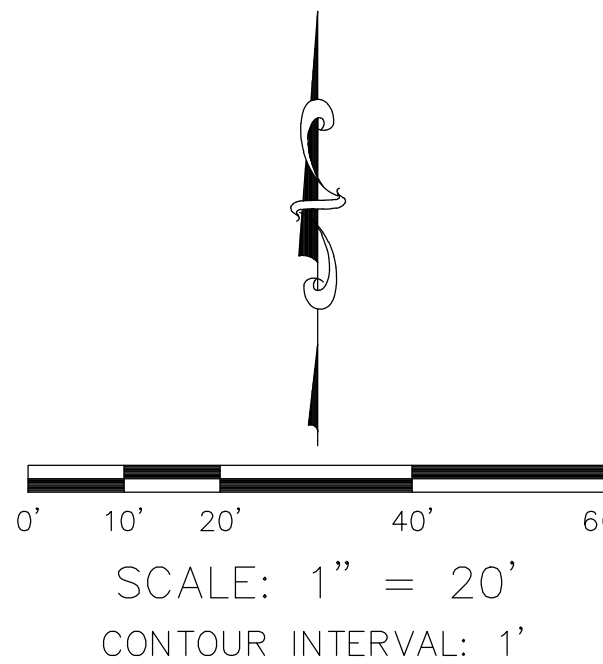
COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
ATWOOD CHANNEL REHABILITATION			
TOPOGRAPHIC MAP			
PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST			
DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW	
MAPPING		BY: J. ISLAS	
OFFICE CHECK		BY: J. MORENO, PLS	
FIELD CHECK		BY: E. HERTZ	
SCALE: 1" = XX'		W.O. #EF21252	FILE #2021PW-ENG0003
FILE: ATWOOD_CHANNEL_TOPD_2021.DWG			
MARK	DATE	ITEM	
REVISIONS			
			SHEET NO. 11 of 16



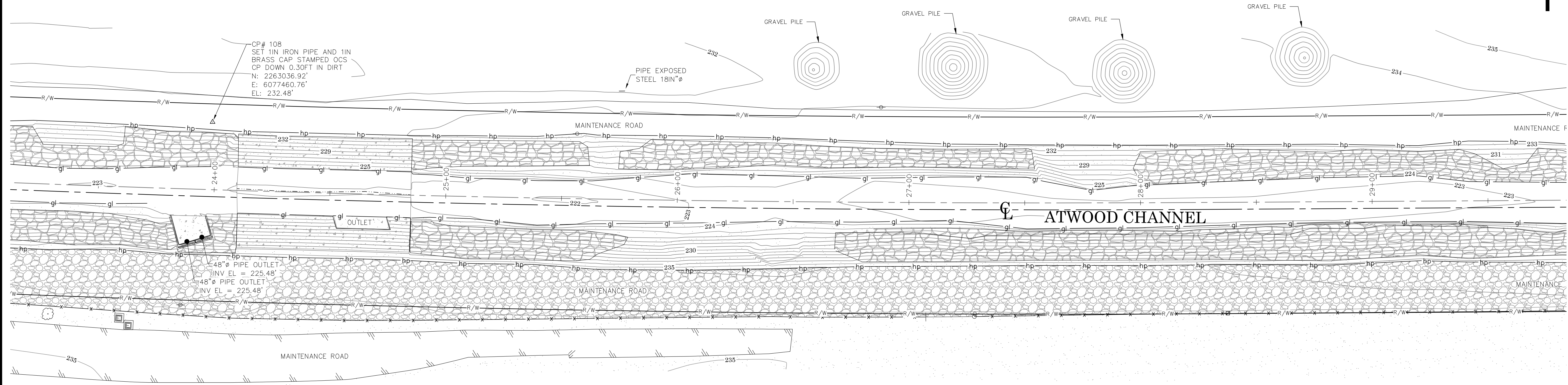
LEGEND

SYMBOL		SYMBOL		ABBREVIATION		LINE PATTERN KEY		AREA PATTERN KEY	
	Control Box Undefined		Pipe Inlet/Outlet	AC	Asphalt Concrete		Concrete Wall		Concrete
	Control Point		Post	CLR	Clearance		Edge of Concrete		
	Drop Inlet		Pull Box Electrical	CMP	Corrugated Metal Pipe		Edge of Asphalt Pavement		
	Electrical Outlet		Pull Box Undefined	CONC	Concrete		Fence Chainlink		
	Gate, Double		Sign Post	CP	Control Point		Fence Pipe and Cable		
	Gate, Single		Tree	EL	Elevation		Fence Post and Wire		
	Grate Inlet		Utility Pole, Steel	ENC	Encroachment		Fence Wrought Iron		
	Manhole Sewer		Utility Pole, Underground	FD	Found		Flowline		
	Manhole Storm Drain		Valve Gas	INV	Invert		Grade Line		
	Manhole Telephone		Valve Water	PP	Power Pole		Guard Rail		
	Manhole Undefined		Vault Electrical	RCP	Reinforced Concrete Pipe		Hand Rail		
	Manhole Water		Vault Undefined				Hinge Point		
	Monitor Well		Vent Pipe				Overhead Wires		
							Pipe Exposed		
							Right of Way		
							Striping		

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				
			ATWOOD CHANNEL REHABILITATION				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST				
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW		SHEET NO. 12 of 16
			MAPPING		BY: J. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: E. HERTZ		
MARK	DATE	ITEM	SCALE: 1" = XX'		W.O. #EF21252	FILE # 2021PW-ENG0003	
REVISIONS			FILE: ATWOOD_CHANNEL_TOPO_2021.DWG				



SYMBOL

- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Gate, Double
- Gate, Single
- Grate Inlet
- Manhole Sewer
- Manhole Storm Drain
- Manhole Telephone
- Manhole Undefined
- Manhole Water
- Monitor Well

SYMBOL

- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Undefined
- Sign Post
- Tree
- Utility Pole, Steel
- Utility Pole, Underground
- Valve Gas
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe

LEGEND

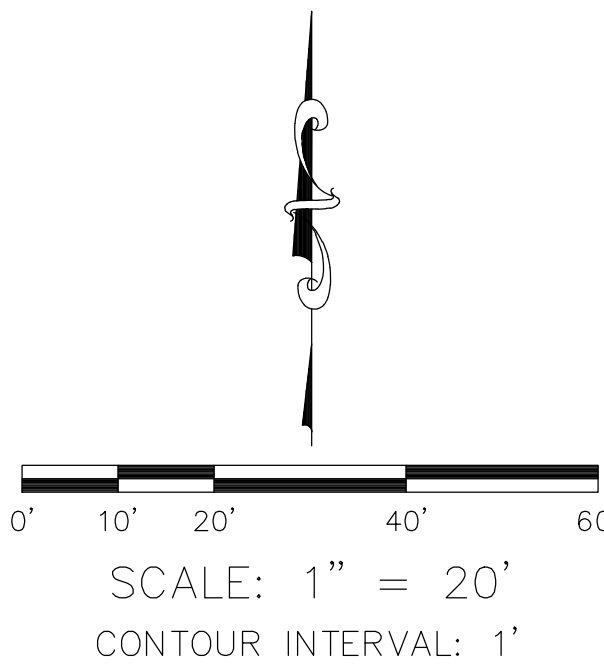
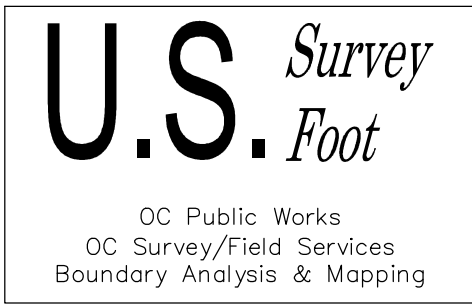
ABBREVIATION	DESCRIPTION
AC	Asphalt Concrete
CLR	Clearance
CMP	Corrugated Metal Pipe
CONC	Concrete
CP	Control Point
EL	Elevation
ENC	Encroachment
FD	Found
INV	Invert
PP	Power Pole
RCP	Reinforced Concrete Pipe

LINE PATTERN KEY

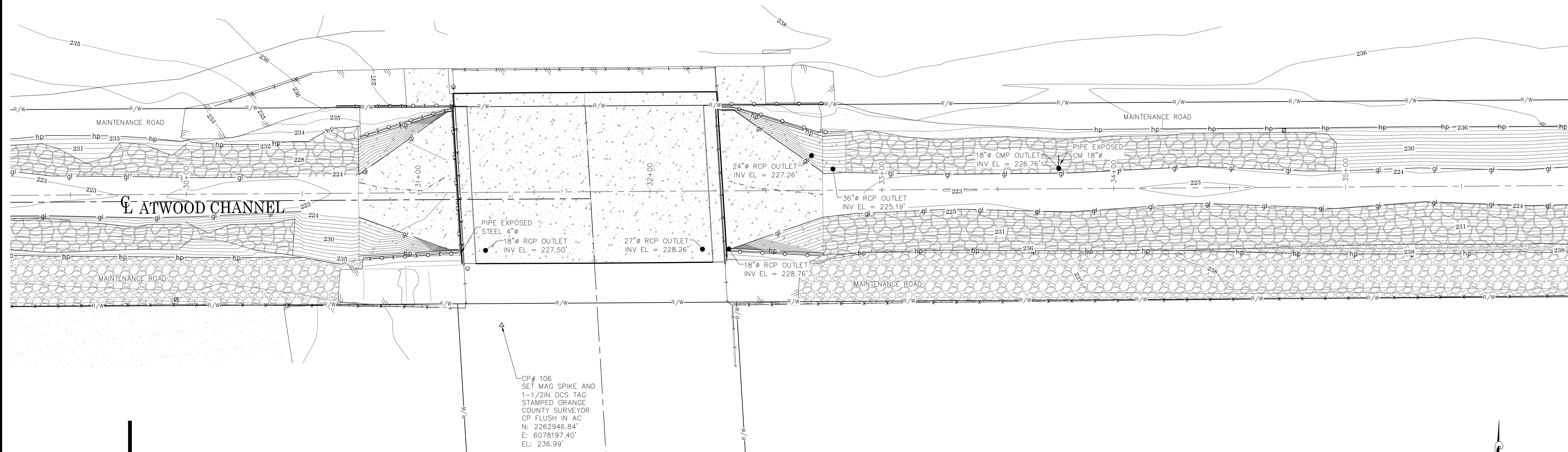
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Fence Post and Wire
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Overhead Wires
- Pipe Exposed
- Right of Way
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Gravel
- Rip Rap



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			ATWOOD CHANNEL REHABILITATION				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST				
			DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW		SHEET NO. 13 of 16
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: J. MORENO, PLS		
FIELD CHECK		BY: E. HERTZ					
MARK	DATE	ITEM	SCALE: 1" = XX' W.O. #EF21252 FILE # 2021PW-ENG0003				
REVISIONS			SCALE: ATWOOD CHANNEL_TOP_2021.DWG				

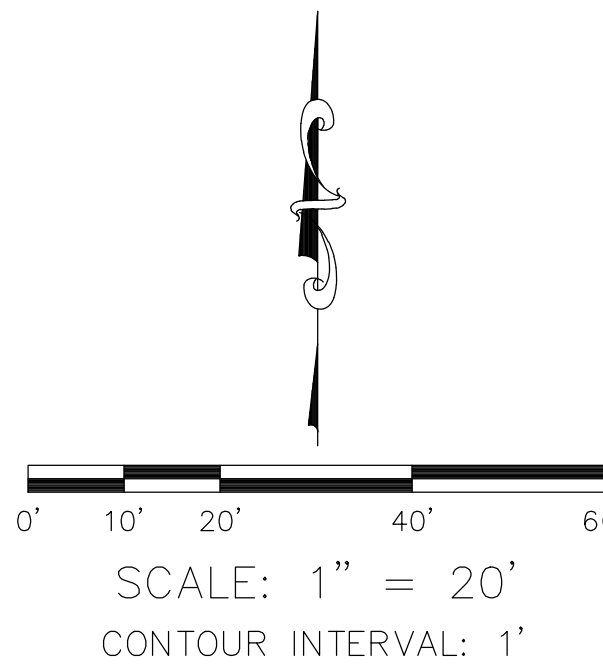


SEE SHEET 13

SYMBOL		SYMBOL		ABBREVIATION		LINE PATTERN KEY		AREA PATTERN KEY	
	Control Box Undefined		Pipe Inlet/Outlet	AC	Asphalt Concrete		Concrete Wall		Concrete
	Control Point		Post	CLR	Clearance		Edge of Concrete		
	Drop Inlet		Pull Box Electrical	CMP	Corrugated Metal Pipe		Edge of Asphalt Pavement		
	Electrical Outlet		Pull Box Undefined	CONC	Concrete		Fence Chainlink		
	Gate, Double		Sign Post	CP	Control Point		Fence Pipe and Cable		
	Gate, Single		Tree	EL	Elevation		Fence Post and Wire		
	Grate Inlet		Utility Pole, Steel	ENC	Encroachment		Fence Wrought Iron		
	Manhole Sewer		Utility Pole, Underground	FD	Found		Flowline		
	Manhole Storm Drain		Valve Gas	INV	Invert		Grade Line		
	Manhole Telephone		Valve Water	PP	Power Pole		Guard Rail		
	Manhole Undefined		Vault Electrical	RCP	Reinforced Concrete Pipe		Hand Rail		
	Manhole Water		Vault Undefined				Hinge Point		
	Monitor Well		Vent Pipe				Overhead Wires		
							Pipe Exposed		
							Right of Way		
							Striping		
									Dirt
									Gravel
									Rip Rap

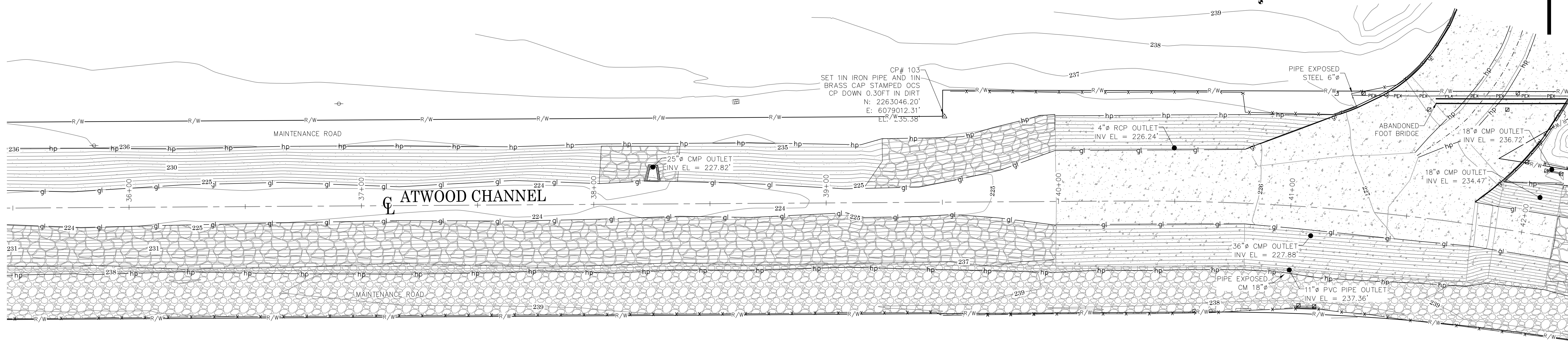
U.S. Survey Foot

OC Public Works
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		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		ATWOOD CHANNEL REHABILITATION			
		TOPOGRAPHIC MAP			
		PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST			
		DATE OF SURVEY: 06/01/2021		SHEET NO. 14 of 16	
		MAPPING			
		OFFICE CHECK		BY: E. HERTZ & CREW	
		FIELD CHECK		BY: I. ISLAS	
		SCALE: 1" = XX'		BY: J. MORENO, PLS	
		FILE: ATWOOD_CHANNEL_TOPD_2021.DWG		BY: E. HERTZ	
MARK	DATE	ITEM	SCALE: 1" = XX'	W.O. #EF21252	FILE # 2021PW-ENG0003
REVISIONS					

SEE SHEET 16



SEE SHEET 14

LEGEND

SYMBOL

- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Gate, Double
- Gate, Single
- Grate Inlet
- Manhole Sewer
- Manhole Storm Drain
- Manhole Telephone
- Manhole Undefined
- Manhole Water
- Monitor Well

SYMBOL

- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Undefined
- Sign Post
- Tree
- Utility Pole, Steel
- Utility Pole, Underground
- Valve Gas
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe

ABBREVIATION

- AC Asphalt Concrete
- CLR Clearance
- CMP Corrugated Metal Pipe
- CONC Concrete
- CP Control Point
- EL Elevation
- ENC Encroachment
- FD Found
- INV Invert
- PP Power Pole
- RCP Reinforced Concrete Pipe

LINE PATTERN KEY

- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Fence Post and Wire
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Overhead Wires
- Pipe Exposed
- Right of Way
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Gravel
- Rip Rap

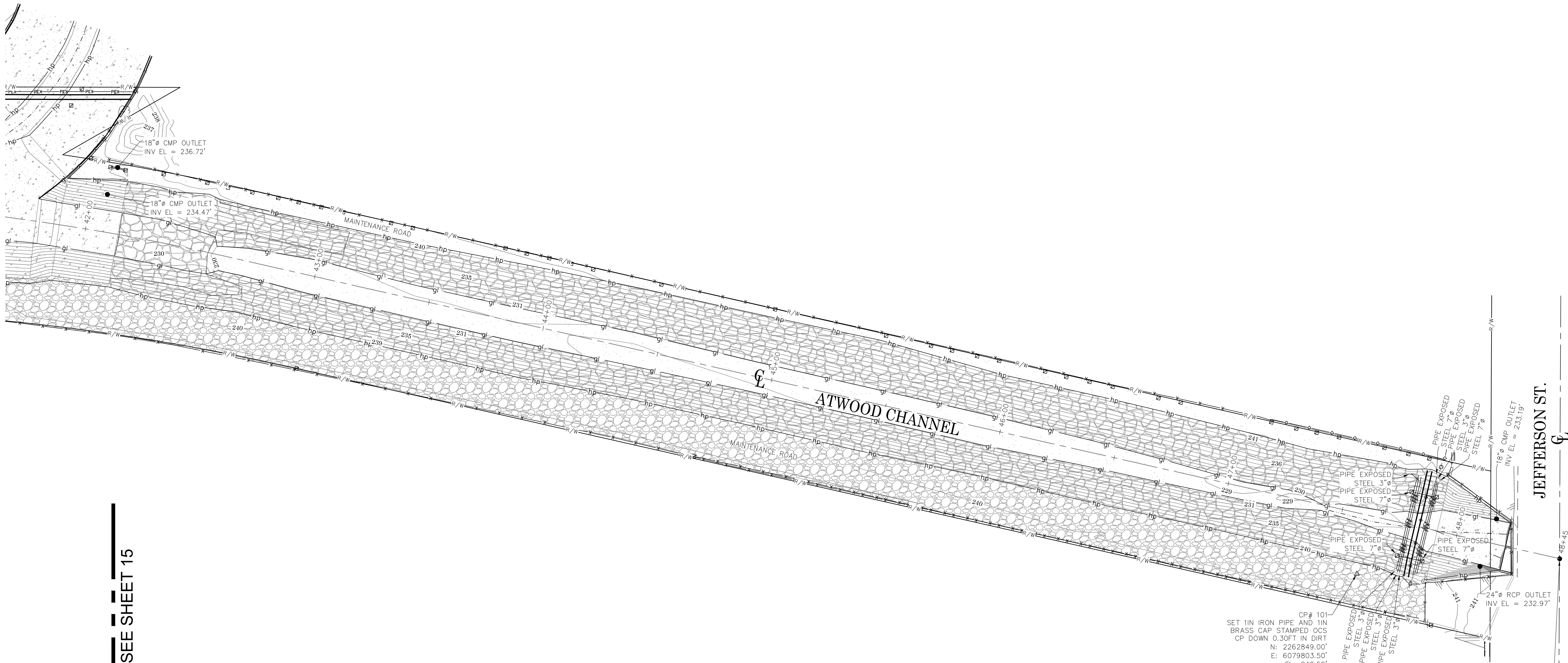
U.S. Survey
Foot

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Boundary Analysis & Mapping

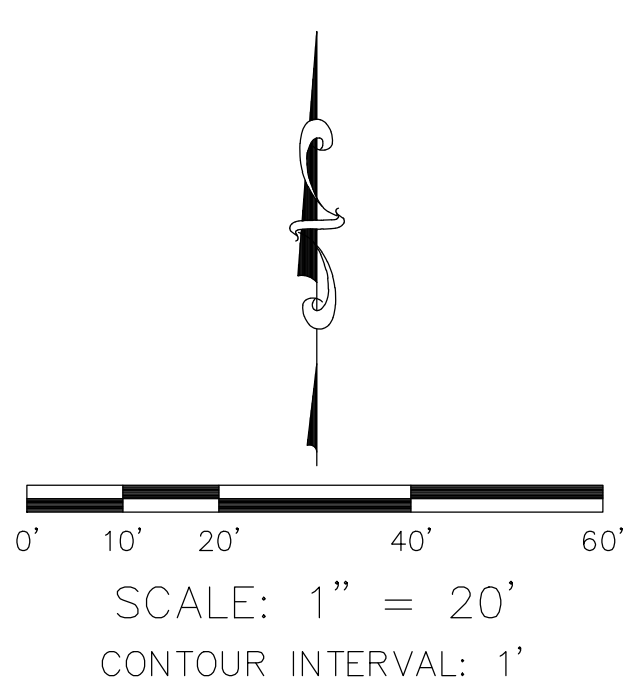


SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

				COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
				ATWOOD CHANNEL REHABILITATION	
				TOPOGRAPHIC MAP	
				PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST	
		DATE OF SURVEY: 06/01/2021		BY: E. HERTZ & CREW	
		MAPPING		BY: J. ISLAS	
		OFFICE CHECK		BY: J. MORENO, PLS	
		FIELD CHECK		BY: E. HERTZ	
		SCALE: 1" = XX'		W.O. #EF21252	
		FILE: ATWOOD_CHANNEL_TOPD_2021.DWG		FILE # 2021PW-ENG0003	
MARK	DATE	ITEM		SHEET NO. 15 of 16	
REVISIONS					



SEE SHEET 15



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

SYMBOL		SYMBOL		ABBREVIATION		LINE PATTERN KEY		AREA PATTERN KEY	
	Control Box Undefined		Pipe Inlet/Outlet	AC	Asphalt Concrete		Concrete Wall		Concrete
	Control Point		Post	CLR	Clearance		Edge of Concrete		
	Drop Inlet		Pull Box Electrical	CMP	Corrugated Metal Pipe		Edge of Asphalt Pavement		
	Electrical Outlet		Pull Box Undefined	CONC	Concrete		Fence Chainlink		Dirt
	Gate, Double		Sign Post	CP	Control Point		Fence Pipe and Cable		
	Gate, Single		Tree	EL	Elevation		Fence Post and Wire		Gravel
	Grate Inlet		Utility Pole, Steel	ENC	Encroachment		Fence Wrought Iron		
	Manhole Sewer		Utility Pole, Underground	FD	Found		Flowline		Rip Rap
	Manhole Storm Drain		Valve Gas	INV	Invert		Guard Rail		
	Manhole Telephone		Valve Water	PP	Power Pole		Hand Rail		
	Manhole Undefined		Vault Electrical	RCP	Reinforced Concrete Pipe		Hinge Point		
	Manhole Water		Vault Undefined				Overhead Wires		
	Monitor Well		Vent Pipe				Pipe Exposed		
							Right of Way		
							Striping		

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			ATWOOD CHANNEL REHABILITATION					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: D/S MILLER BASIN TO D/S JEFFERSON ST					
			DATE OF SURVEY: 06/01/2021	BY: E. HERTZ & CREW		SHEET NO. 16 of 16		
			MAPPING	BY: J. ISLAS				
			OFFICE CHECK	BY: J. MORENO, PLS				
				FIELD CHECK	BY: E. HERTZ			
			MARK	DATE	ITEM	SCALE: 1" = XX'	W.O. #EF21252	FILE # 2021PW-ENG0003
			REVISIONS			FILE: ATWOOD_CHANNEL_TOPD_2021.DWG		