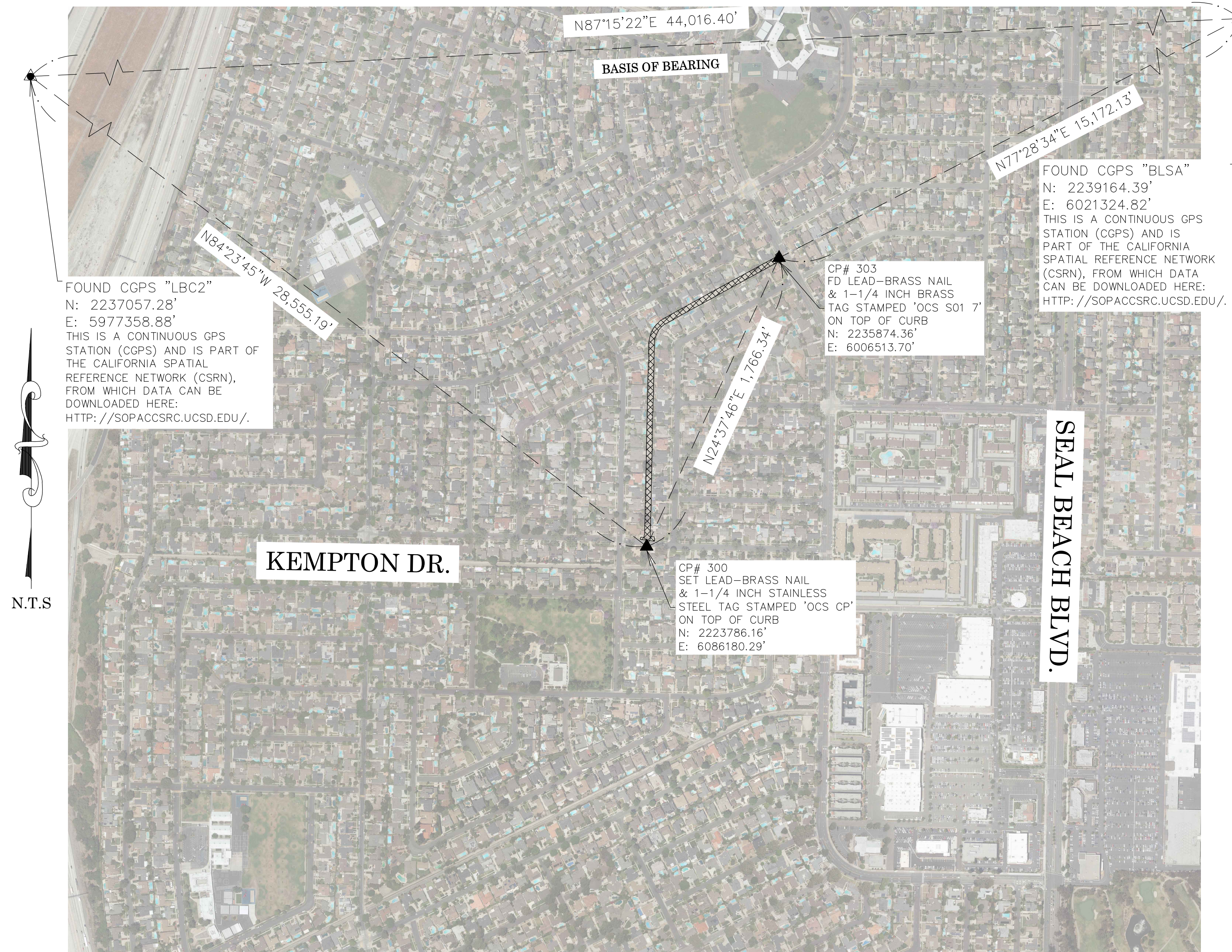
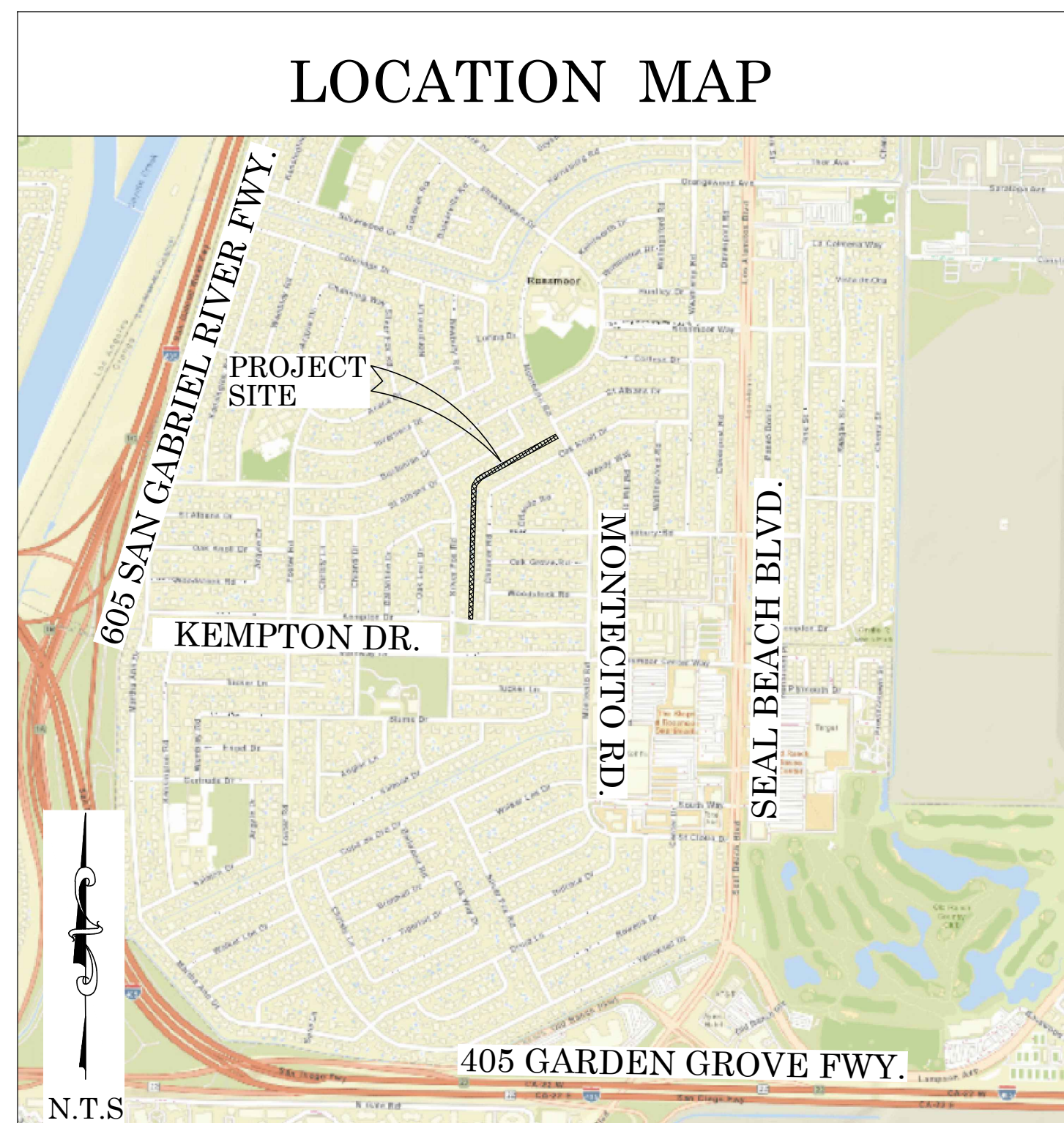




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
KEMPTON CHANNEL
REHABILITATION



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 CGPS STATIONS (LBC2) AND (BLSA) BEING NORTH 87°15'22\"

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 1.00000980. COMBINATION FACTOR WAS HELD AT: #303
N: 2235874.36\"

VERTICAL DATUM

O.C.S. BM. 1A-101-68 ELEV. = 18.968\"

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES. THERE MAY BE OR MAY NOT BE ENCROACHMENTS. NO RIGHT OF WAY SURVEY WAS PERFORMED.

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET	1	TITLE SHEET
SHEET	2	ALIGNMENT SHEET
SHEET	3-12	TOPOGRAPHIC MAP

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP SHOWING FENCE LINES, POST, WALLS AND FOOTING, TO REPAIR THE CHANNEL SLOPES.

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 25 DAY OF AUGUST, 2020.

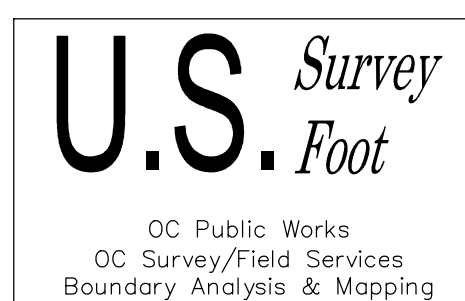
ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 25 DAY OF AUGUST, 2020.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



TOPOGRAPHIC MAPPING PROJECT

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			KEMPTON CHANNEL REHABILITATION	
PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			TITLE SHEET	
DATE OF SURVEY: 06/27/2020			BY: R. MACIAS, PLS & CREW	
MAPPING			BY: L. ISLAS	
OFFICE CHECK			BY: E. MEDINA, PLS	
FIELD CHECK			BY: R. MACIAS, PLS	
SCALE: N.T.S.			W.O. #EF21477	FILE #1920PW-PM0003
REVISIONS			FILE: KEMPTON_CHANNEL_REHABILITATION_TOPO_2020.DWG	

REFERENCES

- (R1) = RECORD OF SURVEY 2017-1132, R.S.B. 296/44-45
- (R2) = RECORD OF SURVEY 2012-1048, R.S.B. 259/50
- (R3) = RECORD OF SURVEY 2011-1106, R.S.B. 258/1-6
- (R4) = TRACT MAP 3189, M.M. 96/5-12
- (R5) = TRACT MAP 3072, M.M. 93/5-8
- (R6) = KEMPTON CHANNEL IMPROVEMENT PLANS, C01S01-701-1-A_1957
- (R7) = CORNER RECORD 2001-531
- (R8) = ALIGNMENT NOTE A/4-11&12, PAGE 1041
- (R9) = TRACT MAP 3129, M.M. 95/26-33

ALIGNMENT ESTABLISHMENT

THE CENTERLINE CONSTRUCTION ALIGNMENT SHOWN HEREON WAS DERIVED BY HOLDING A BEST FIT RECORD ALIGNMENT PER RECORD PLAN C01S01-701-1A DATED MAY 1959 BETWEEN THE EXISTING MID POINTS OF EXISTING CONCRETE STRUCTURES.

SAID ALIGNMENT IS REFERENCED IN THE TOPOGRAPHIC MAP SHEETS AS "CONSTRUCTION CENTERLINE-KEMPTON CHANNEL (C01S01)".

BASIS OF STATIONING

THE BASIS FOR STATIONING IS DERIVED FROM RECORD DRAWING C01S01-701-1A. BEGINNING AT THE MID POINT OF THE END TRANSITION FOR THE R.C.B. CHANNEL EXISTING CONCRETE STRUCTURE GRADELINES WITH STATIONS 41+69.30 AND ENDING AT STATION 361+87.25.

MONUMENT NOTES

- 1 FOUND PUNCHED SPIKE WITH 1-1/2" OCS WASHER PER (R8), FLUSH IN AC.
- 2 FOUND SURVEY MARK SPIKE WITH 1-1/2" OCS BRASS WASHER PER (R7), FLUSH IN AC.
- 3 FOUND LEAD WITH NAIL PER (R1).
- 4 FOUND LEAD WITH NAIL SHAFT PER (R1).
- 5 FOUND RAMSET NAIL NAIL PER (R1).
- 6 FOUND MAG NAIL PER (R1), WITH 4 SWING TIES, FLUSH IN AC.
- 7 FOUND PK NAIL WITH 1-1/2" BRASS OCS TAG PER (R1) FLUSH IN AC.
- 8 FOUND OCS WELL MON, BASS DISK WITH PLUS, DN 1.6. PER (R3).
- 9 FOUND LEAD WITH 1-1/4" BRASS OCS TAG FLUSH IN CONCRETE, PER (R3).

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	523.83'	1241.37'	24°10'39"
C2	880.27'	1241.37'	40°37'44"
C3	1404.22'	1241.37'	64°48'44"

TRACT 3129
M.M. 94/25-33

TRACT 3129
M.M. 94/25-33

TRACT 3189
M.M. 96/5-13

TRACT 3072
M.M. 93/5-8

HORIZONTAL DATUM

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

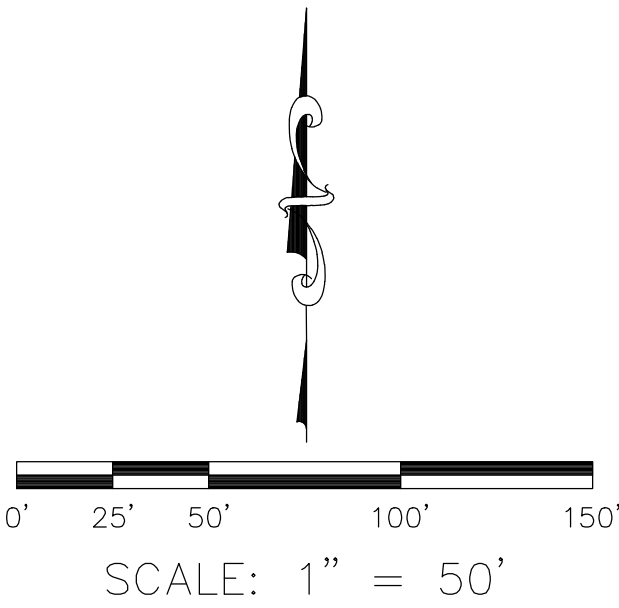
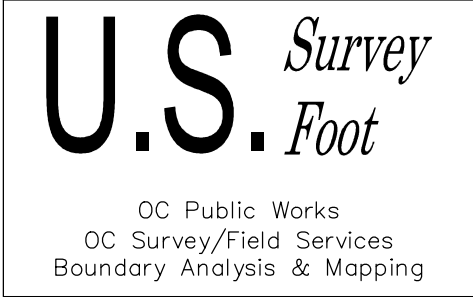
ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY A GRID DISTANCE BY 1.00000938.

COMBINATION FACTOR WAS HELD AT POINT NUMBER 303 AS SHOWN ON SHEET 1.
N: 2235874.36', E: 6006513.70', ELEVATION= 14.27'

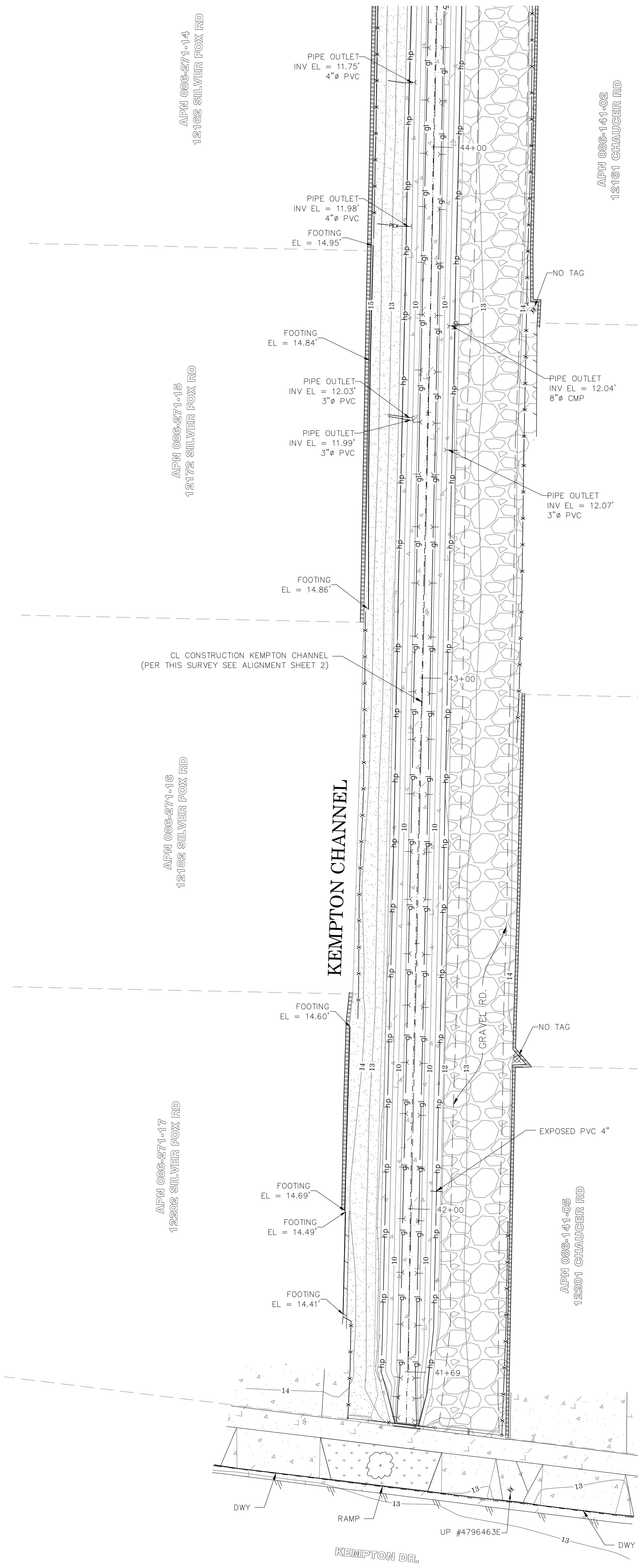
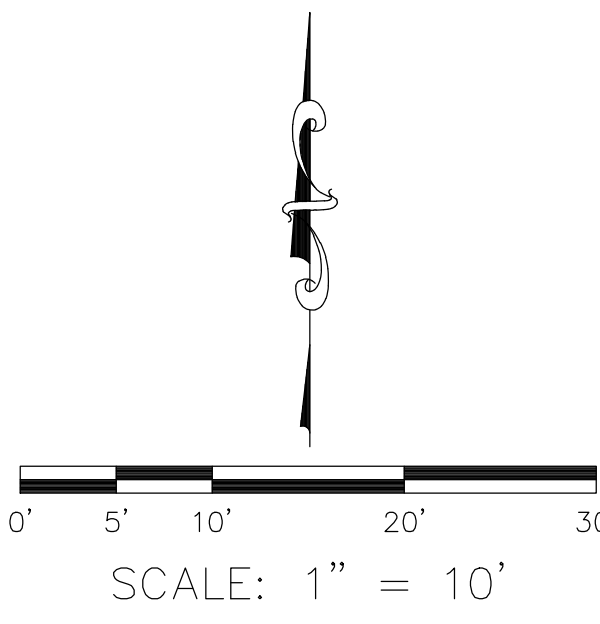
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

LEGEND

- FOUND MONUMENT AS NOTED
- ⊗ SEARCHED FOUND NOTHING



			COUNTY OF ORANGE OC PUBLIC WORKS			
			KEMPTON STORM CHANNEL ALIGNMENT			
			PROJECT LIMITS: KEMPTON RD. TO MONTECITO DR. APPROX. 1950'			
			DATE OF SURVEY: 06/11/20		BY: R. MACIAS, PLS	SHEET NO. 2 of 12
			MAPPING		BY: S. STROM	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 50'		W.O. #EF21477	FILE #1920PW-PM0003
REVISIONS			FILE: KEMPTON_CHANNEL_REHABILITATION_ALIGNMENT_2020.DWG			



SEE SHEET 4

NOTE: THIS SURVEY IS FOR TOPOGRAPHICAL PURPOSES ONLY. THERE MAY BE OR MAY NOT BE ENCROACHMENTS. NO RIGHT OF WAY SURVEY WAS PERFORMED.

ALL DASHED PARCEL LINES ARE FOR GRAPHICAL REFERENCES ONLY

SYMBOL

- Control Box Telephone
- Control Point
- Gate, Double
- Gate, Single
- Guy Wire Anchor
- Pipe Inlet/Outlet
- Manhole Storm Drain
- Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel / Rip Rap

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Channel Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Gravel Road
- Hinge Point
- Parcel Line

ABBREVIATION

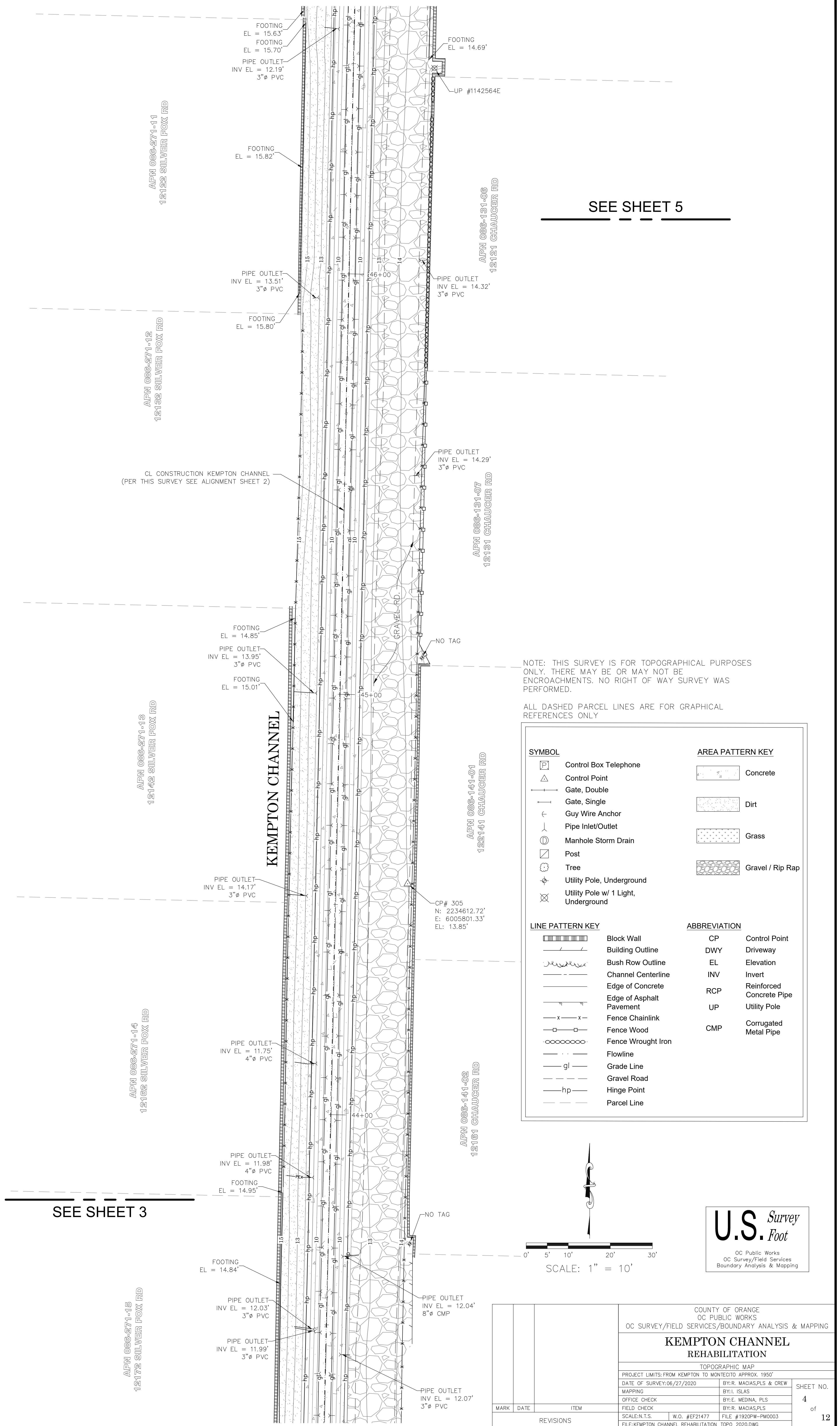
- CP Control Point
- DWY Driveway
- EL Elevation
- INV Invert
- RCP Reinforced Concrete Pipe
- UP Utility Pole
- CMP Corrugated Metal Pipe

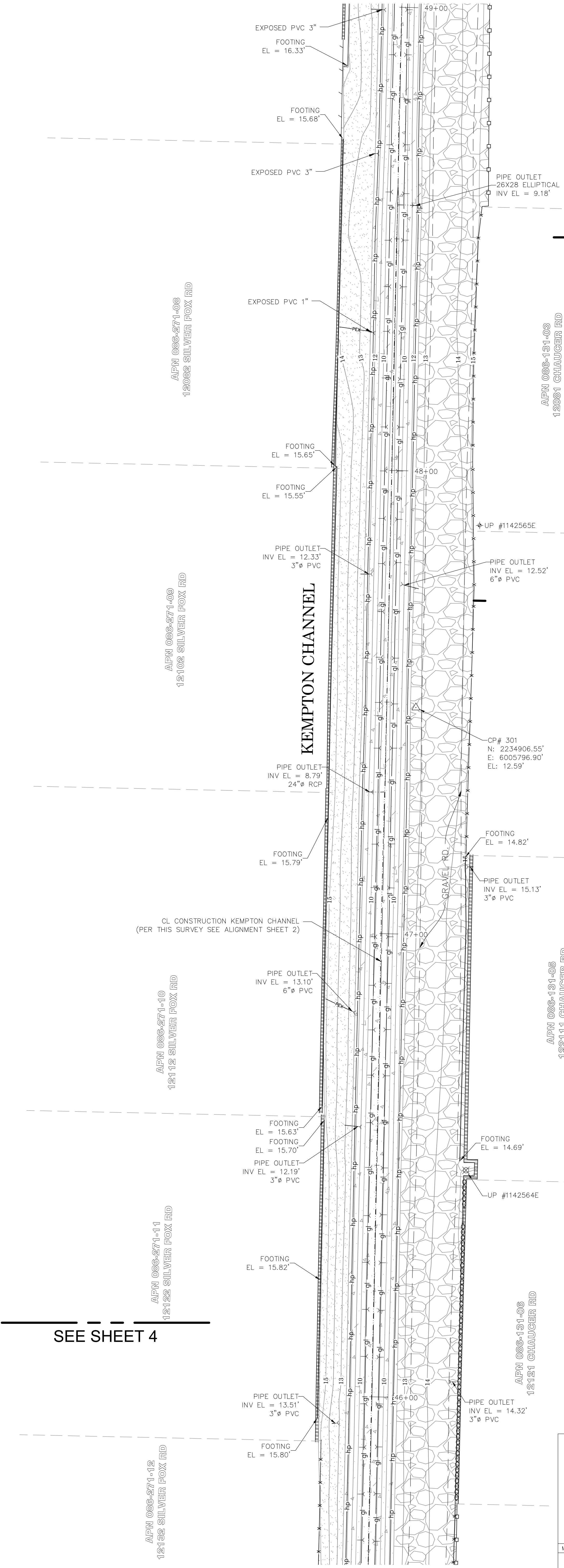
U.S. Survey Foot

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

CP# 300
N: 2234268.72'
E: 6005777.59'
EL: 13.27'

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			KEMPTON CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			
			DATE OF SURVEY: 06/27/2020		SHEET NO. 3 of 12	
			MAPPING			
			OFFICE CHECK			
			FIELD CHECK			
			SCALE: N.T.S.		W.O. #EF21477	FILE #1920PW-PM0003
			REVISIONS			FILE: KEMPTON CHANNEL REHABILITATION_TOPO_2020.DWG





SEE SHEET 6

NOTE: THIS SURVEY IS FOR TOPOGRAPHICAL PURPOSES ONLY. THERE MAY BE OR MAY NOT BE ENCROACHMENTS. NO RIGHT OF WAY SURVEY WAS PERFORMED.

ALL DASHED PARCEL LINES ARE FOR GRAPHICAL REFERENCES ONLY

SYMBOL

- Control Box Telephone
- Control Point
- Gate, Double
- Gate, Single
- Guy Wire Anchor
- Pipe Inlet/Outlet
- Manhole Storm Drain
- Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel / Rip Rap

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Channel Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Gravel Road
- Hinge Point
- Parcel Line

ABBREVIATION

- CP Control Point
- DWY Driveway
- EL Elevation
- INV Invert
- RCP Reinforced Concrete Pipe
- UP Utility Pole
- CMP Corrugated Metal Pipe

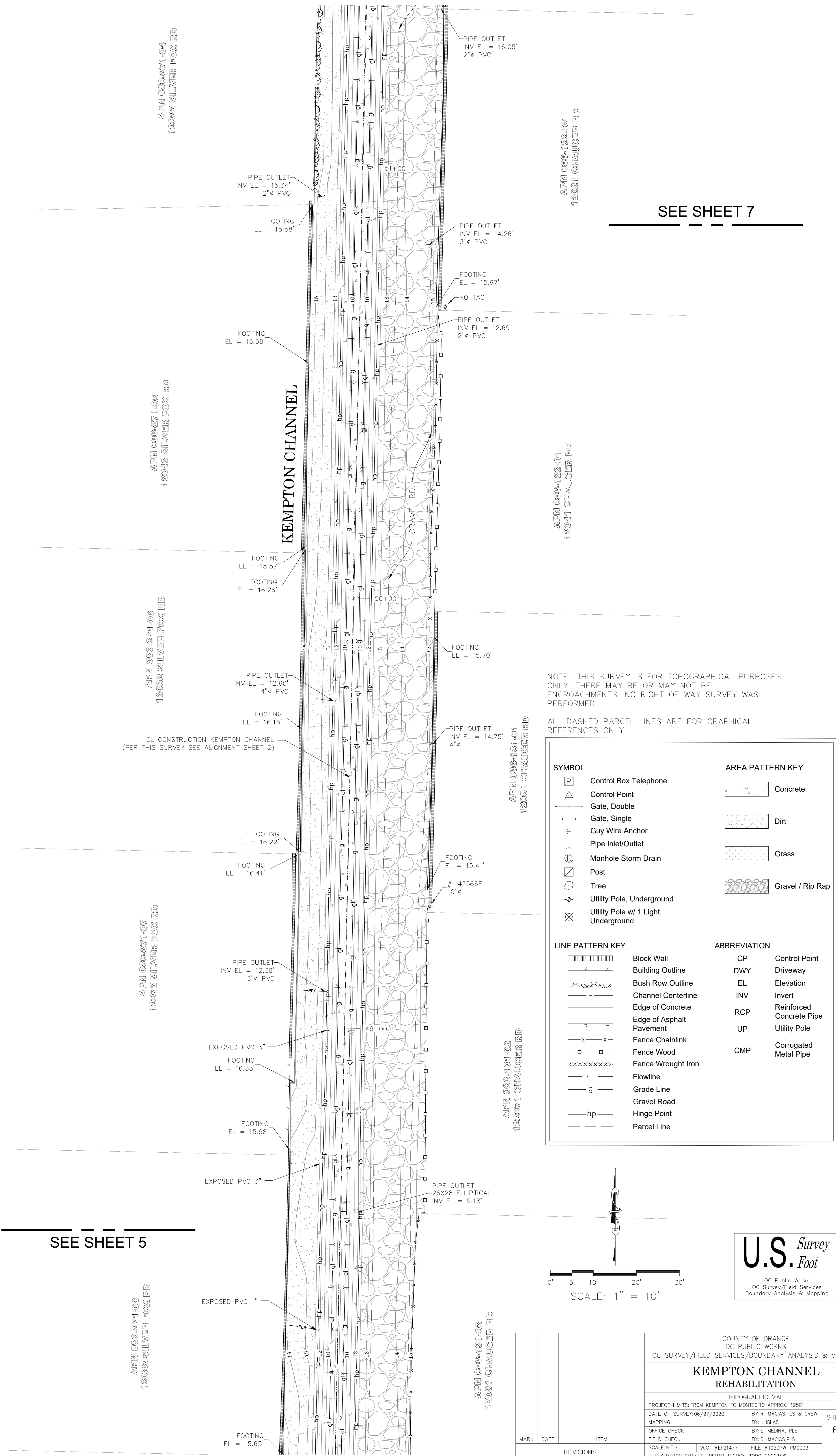


SCALE: 1" = 10'

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		
KEMPTON CHANNEL REHABILITATION		
TOPOGRAPHIC MAP		
PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'		
DATE OF SURVEY: 06/27/2020	BY: R. MACIAS, PLS & CREW	SHEET NO. 5 of 12
MAPPING	BY: I. ISLAS	
OFFICE CHECK	BY: E. MEDINA, PLS	FILE #1920PW-PM0003
FIELD CHECK	BY: R. MACIAS, PLS	
SCALE: N.T.S.	W.O. #EF21477	FILE: KEMPTON_CHANNEL_REHABILITATION_TOPO_2020.DWG



SEE SHEET 7

SEE SHEET 5

NOTE: THIS SURVEY IS FOR TOPOGRAPHICAL PURPOSES ONLY. THERE MAY BE OR MAY NOT BE ENCROACHMENTS. NO RIGHT OF WAY SURVEY WAS PERFORMED.

ALL DASHED PARCEL LINES ARE FOR GRAPHICAL REFERENCES ONLY

SYMBOL

- Control Box Telephone
- Control Point
- Gate, Double
- Gate, Single
- Guy Wire Anchor
- Pipe Inlet/Outlet
- Manhole Storm Drain
- Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground

AREA PATTERN KEY

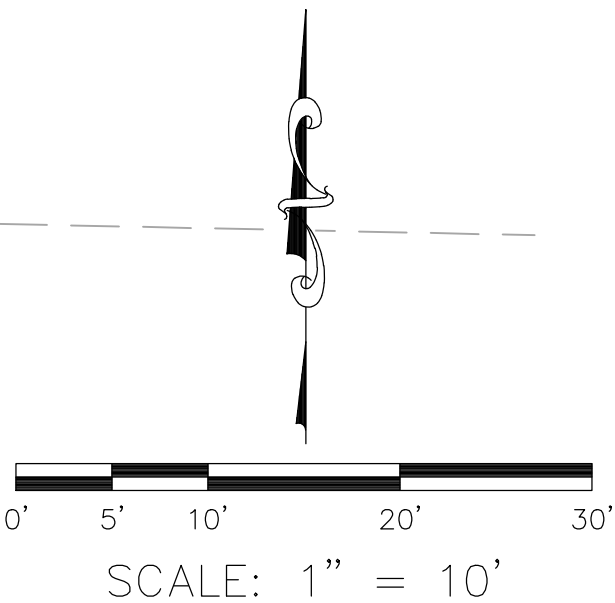
- Concrete
- Dirt
- Grass
- Gravel / Rip Rap

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Channel Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Gravel Road
- Hinge Point
- Parcel Line

ABBREVIATION

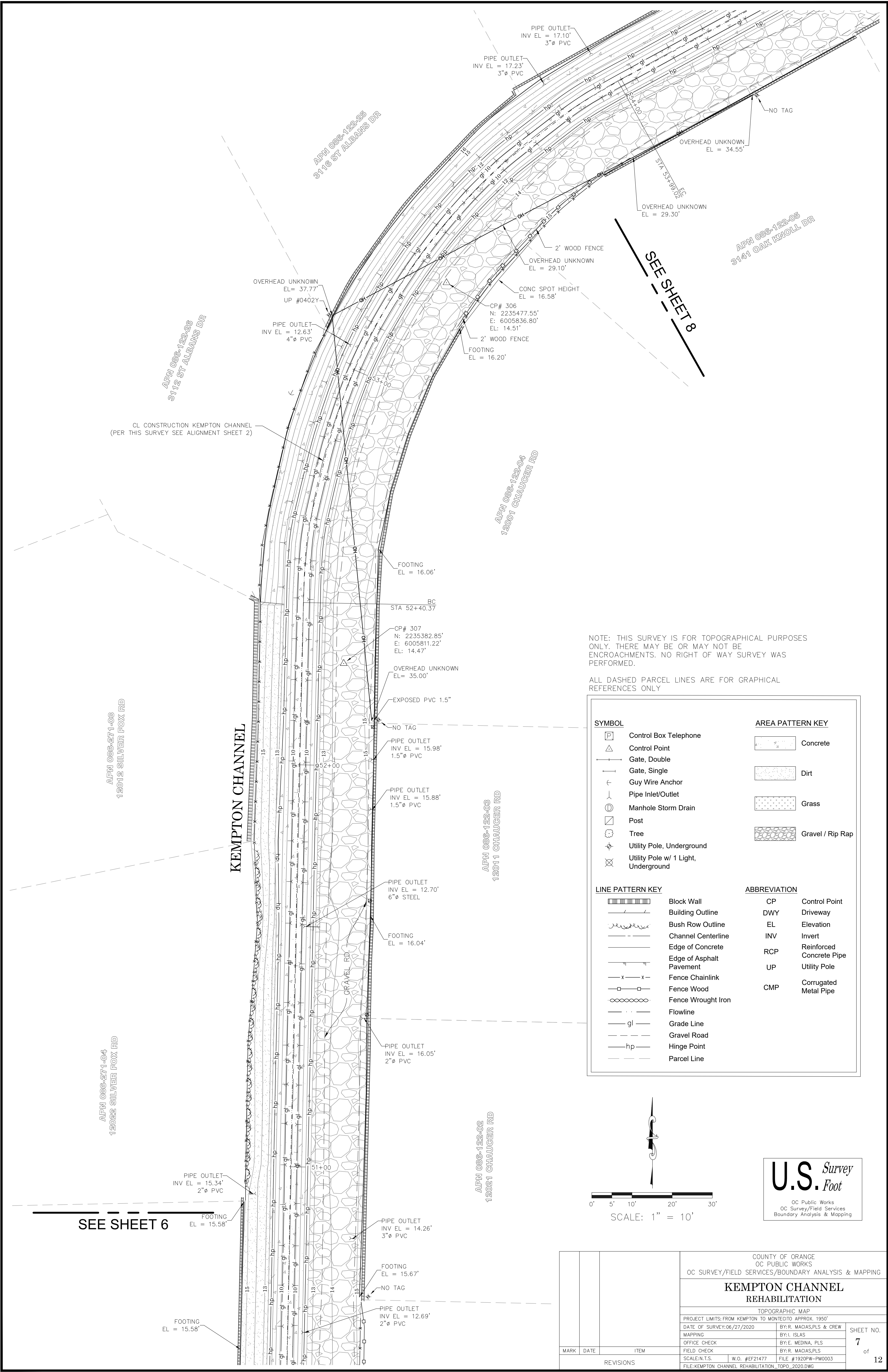
- CP Control Point
- DWY Driveway
- EL Elevation
- INV Invert
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- UP Utility Pole
- CMP Corrugated Metal Pipe



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			
			KEMPTON CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			
			DATE OF SURVEY: 06/27/2020		BY: R. MACIAS, PLS & CREW	SHEET NO. 6 of 12
			MAPPING		BY: I. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: N.T.S.		W.O. #EF21477	FILE #1920PW-PM0003
		REVISIONS	FILE: KEMPTON_CHANNEL_REHABILITATION_TOPO_2020.DWG			



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SYMBOL

Control Box Telephone

Control Point

Gate, Double

Gate, Single

Guy Wire Anchor

Pipe Inlet/Outlet

Manhole Storm Drain

Post

Tree

Utility Pole, Underground

Utility Pole w/ 1 Light, Underground

AREA PATTERN KEY

Concrete

Dirt

Grass

Gravel / Rip Rap

LINE PATTERN KEY

Block Wall

Building Outline

Bush Row Outline

Channel Centerline

Edge of Concrete

Edge of Asphalt Pavement

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Flowline

Grade Line

Gravel Road

Hinge Point

Parcel Line

ABBREVIATION

CP

Control Point

DWY

Driveway

EL

Elevation

INV

Invert

RCP

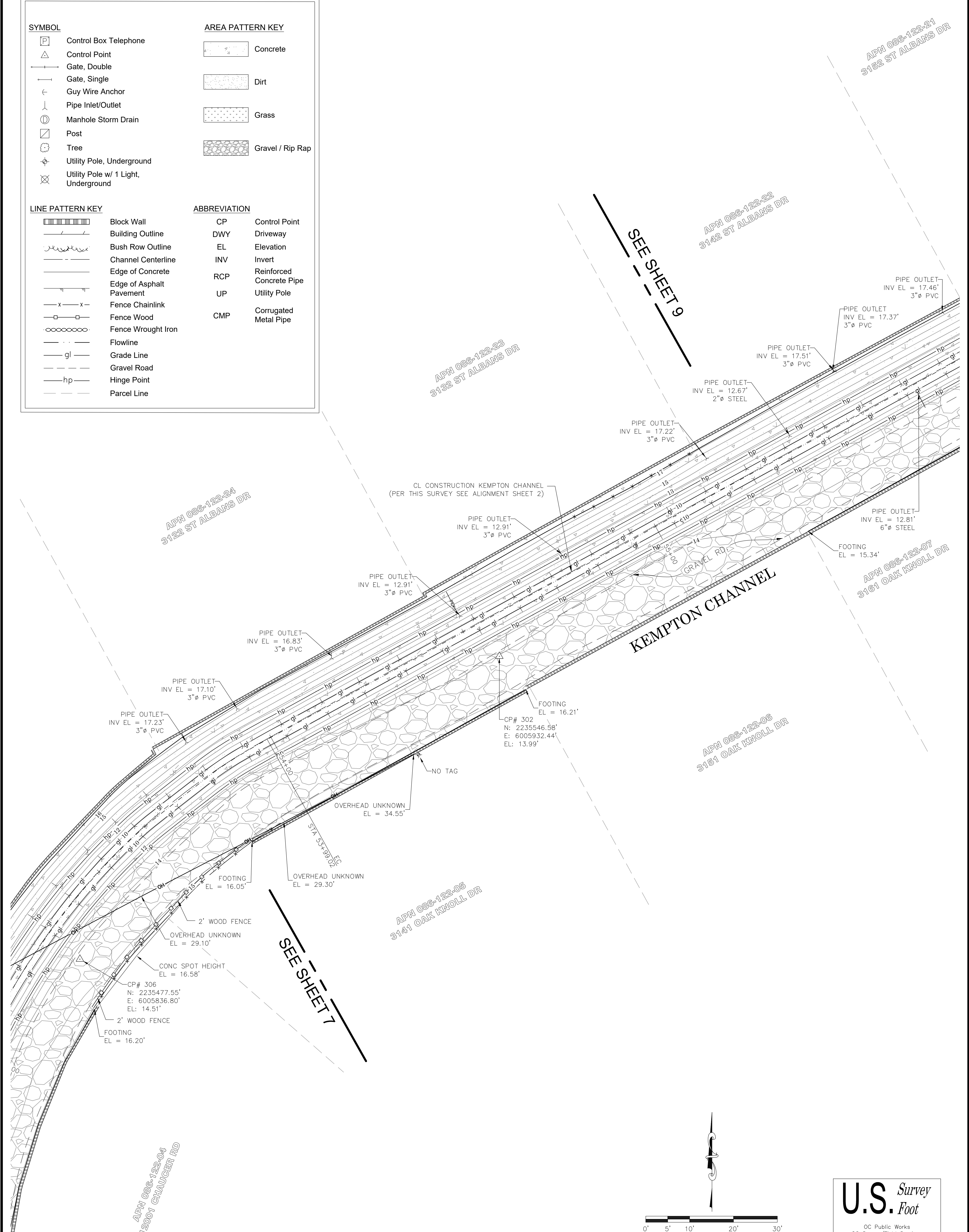
Reinforced Concrete Pipe

UP

Utility Pole

CMP

Corrugated Metal Pipe



SCALE: 1" = 10'

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			
			KEMPTON CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			
			DATE OF SURVEY: 06/27/2020		BY: R. MACIAS, PLS & CREW	SHEET NO. 8 of 12
			MAPPING		BY: I. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: N.T.S.		W.O. #EF21477	FILE #1920PW-PM0003
REVISIONS			FILE: KEMPTON CHANNEL REHABILITATION_TOPO_2020.DWG			

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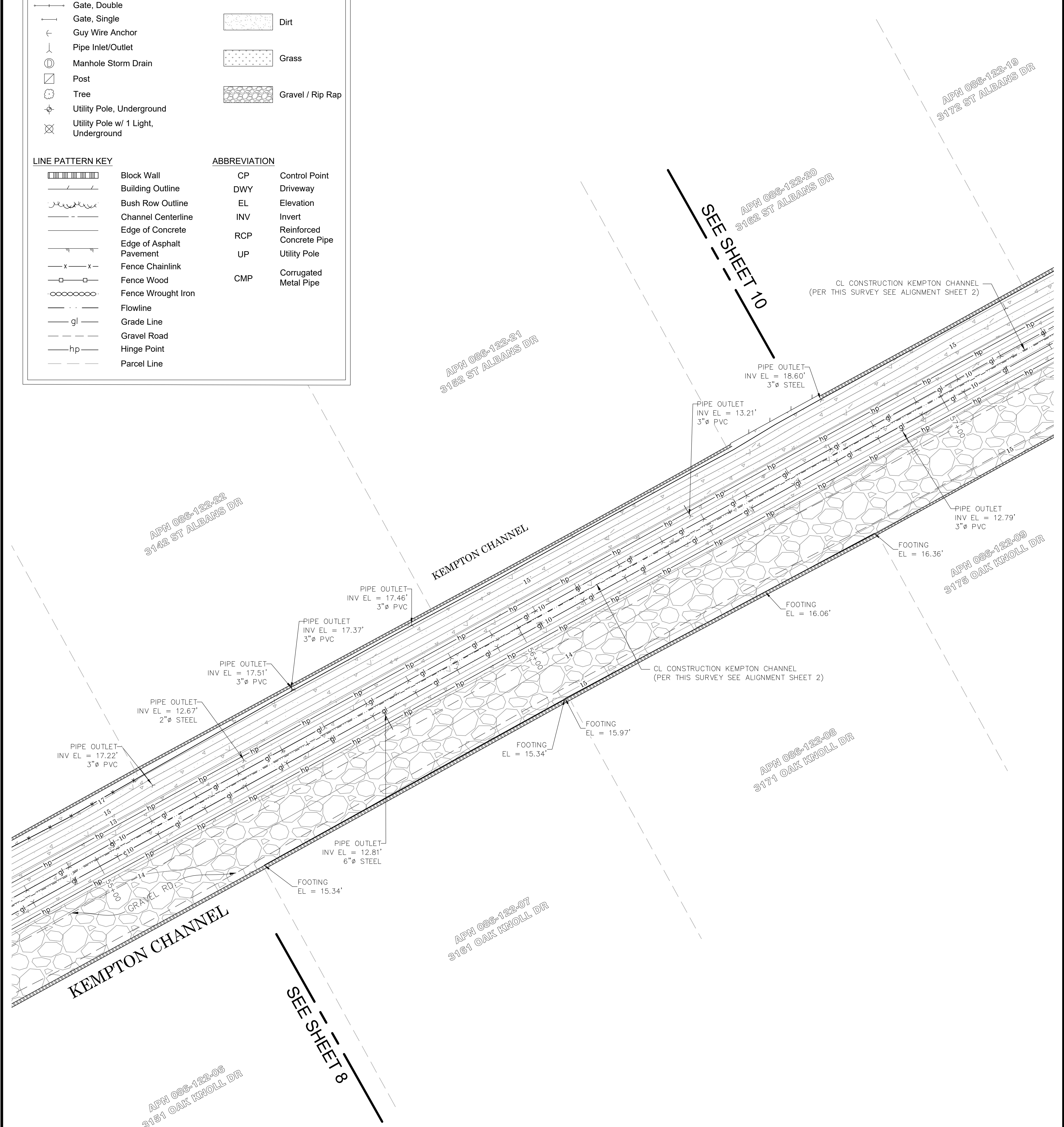
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 Fence Wood
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ABBREVIATION
CP Control Point
DWY Driveway
EL Elevation
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UP Utility Pole
CMP Corrugated Metal Pipe



SCALE: 1" = 10'

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					
			KEMPTON CHANNEL REHABILITATION					
			TOPOGRAPHIC MAP					
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'					
			DATE OF SURVEY: 06/27/2020		SHEET NO. 9 of 12			
			MAPPING					
			OFFICE CHECK					
			FIELD CHECK					
			MARK	DATE	ITEM	SCALE: N.T.S.		FILE #1920PW-PM0003
						W.O. #EF21477		
FILE: KEMPTON CHANNEL REHABILITATION_TOPO_2020.DWG								
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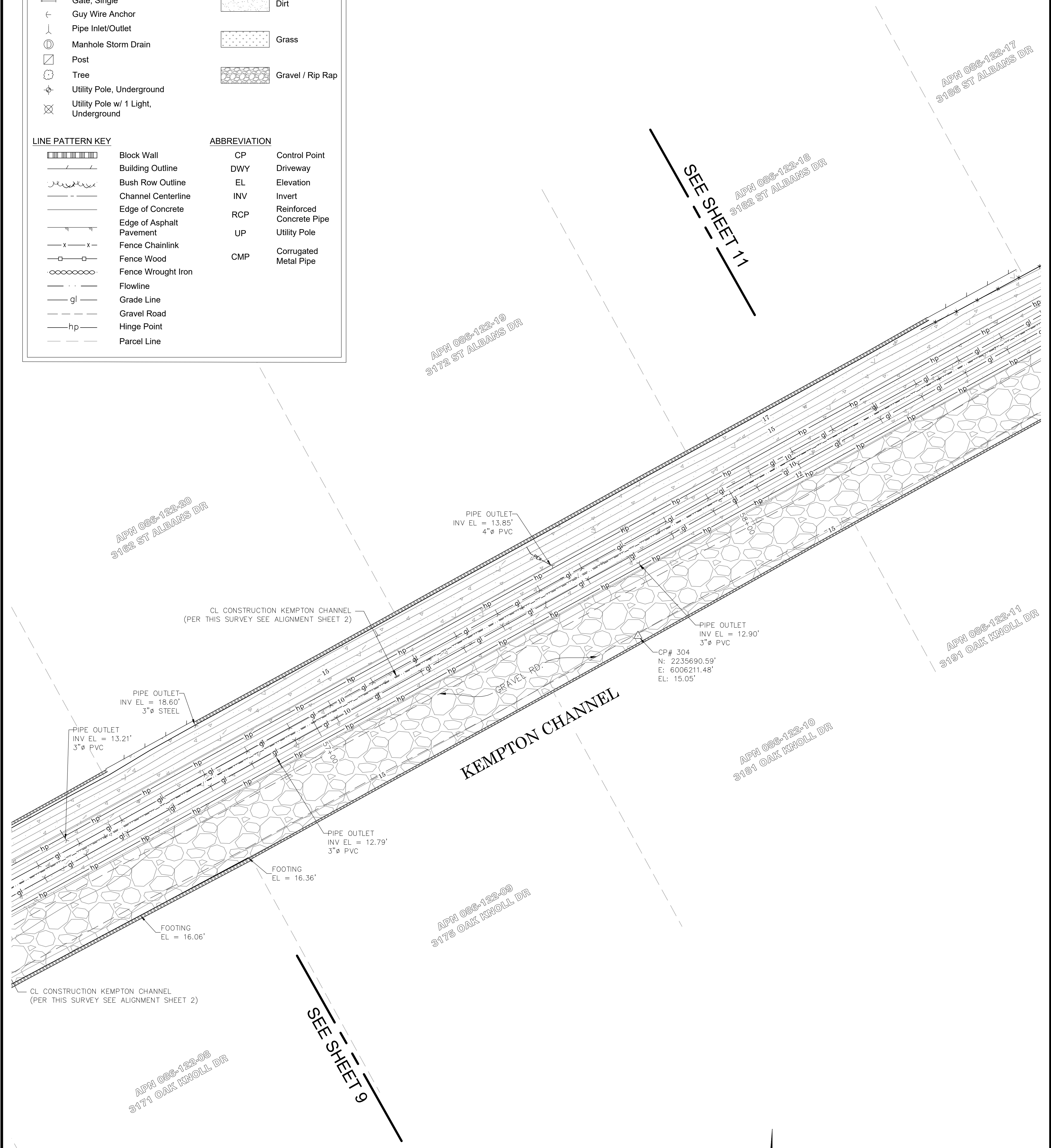
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0' 5' 10' 20' 30'
SCALE: 1" = 10'

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			
			KEMPTON CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			
			DATE OF SURVEY: 06/27/2020		BY: R. MACIAS, PLS & CREW	SHEET NO. 10 of 12
			MAPPING		BY: L. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: N.T.S.		W.O. #EF21477	FILE #1920PW-PM0003
REVISIONS			FILE: KEMPTON_CHANNEL_REHABILITATION_TOPO_2020.DWG			

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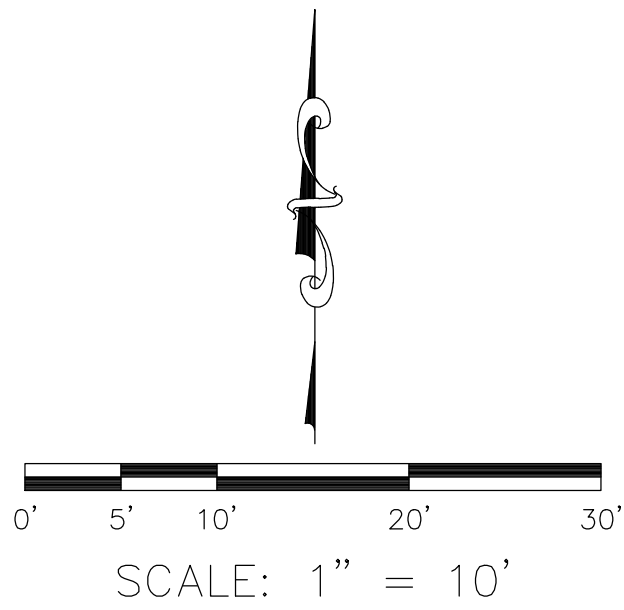
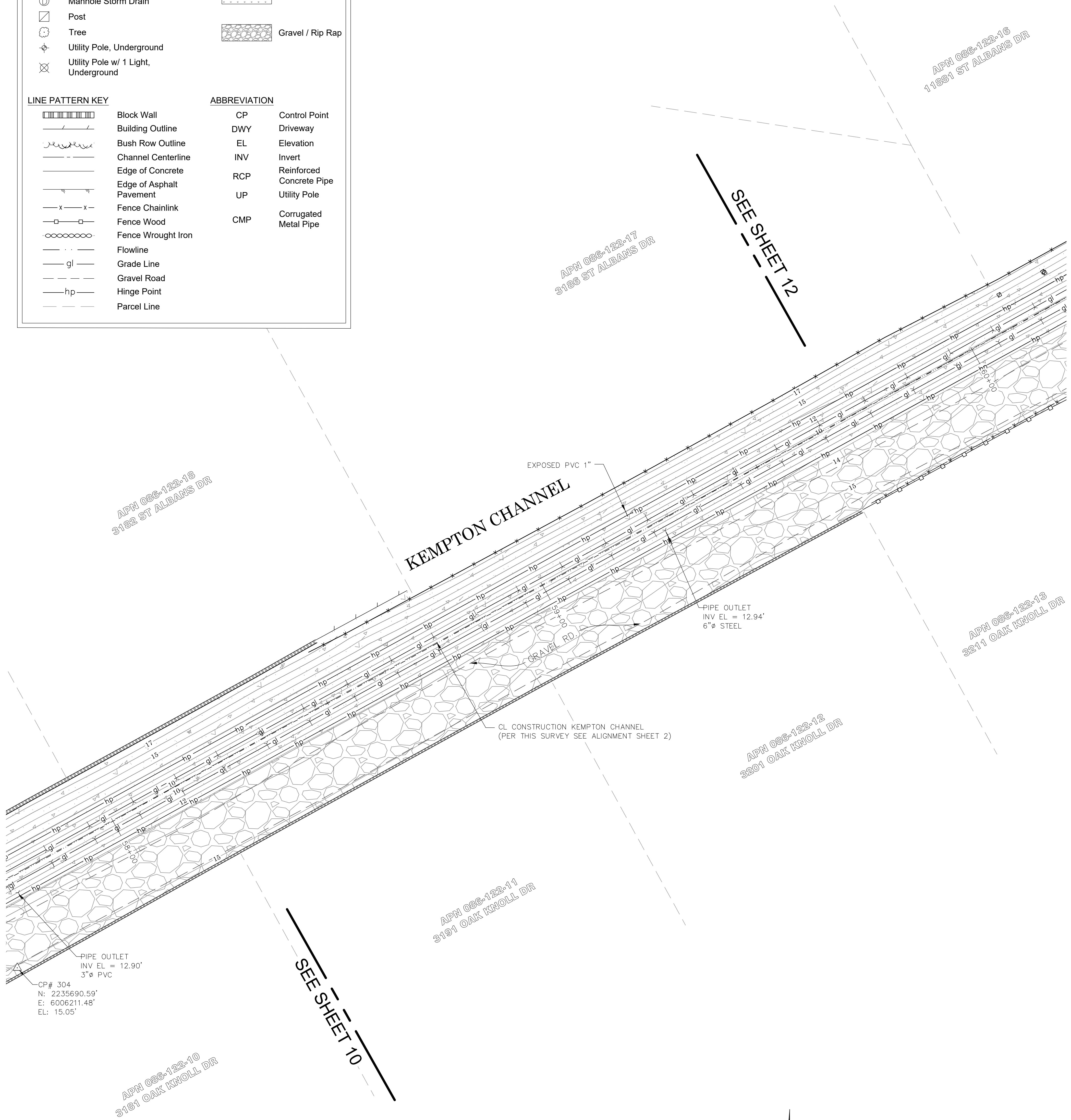
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ABBREVIATION
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U.S. Survey Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			KEMPTON CHANNEL REHABILITATION		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'		
		DATE OF SURVEY: 06/27/2020	BY: R. MACIAS, PLS & CREW	SHEET NO. 11 of 12	
		MAPPING	BY: L. ISLAS		
		OFFICE CHECK	BY: E. MEDINA, PLS		
		FIELD CHECK	BY: R. MACIAS, PLS		
MARK	DATE	ITEM	SCALE: N.T.S.	W.O. #EF21477	FILE #1920PW-PM0003
REVISIONS			FILE: KEMPTON CHANNEL REHABILITATION_TOPO_2020.DWG		

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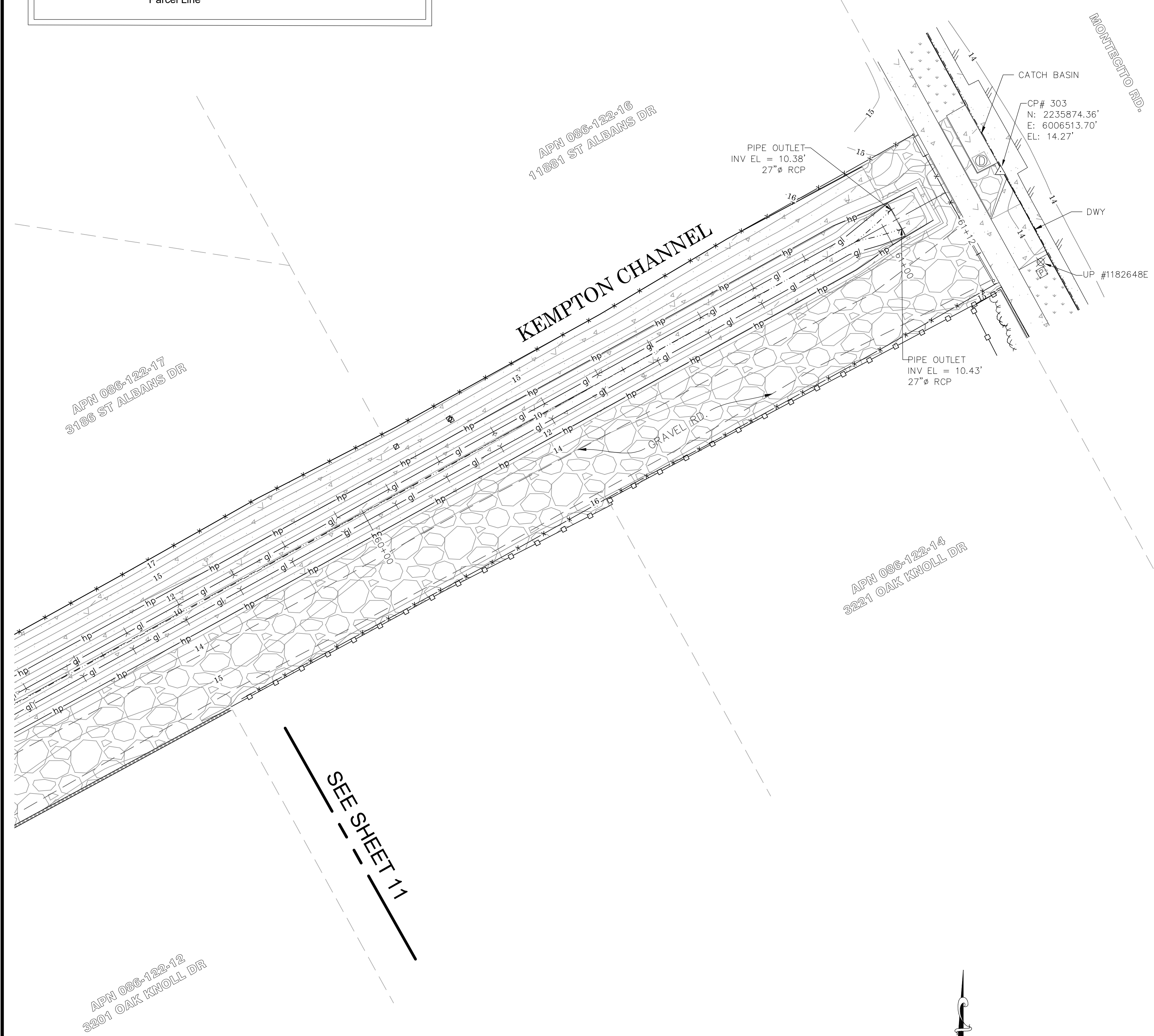
ALL DASHED PARCEL LINES ARE FOR GRAPHICAL REFERENCES ONLY

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 Parcel Line

ABBREVIATION
CP Control Point
DWY Driveway
EL Elevation
INV Invert
RCP Reinforced Concrete Pipe
UP Utility Pole
CMP Corrugated Metal Pipe



0' 5' 10' 20' 30'
SCALE: 1" = 10'

U.S. Survey Foot
OC Public Works
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			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			KEMPTON CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM KEMPTON TO MONTECITO APPROX. 1950'			
			DATE OF SURVEY: 06/27/2020		BY: R. MACIAS, PLS & CREW	SHEET NO. 12
			MAPPING		BY: L. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	of 12
			FIELD CHECK		BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: N.T.S.		W.O. #EF21477	FILE #1920PW-PM0003
		REVISIONS	FILE: KEMPTON CHANNEL REHABILITATION_TOPO_2020.DWG			