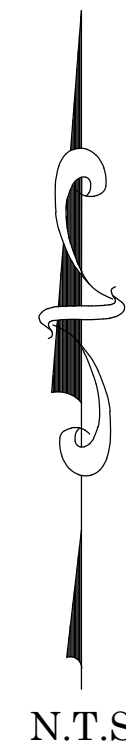
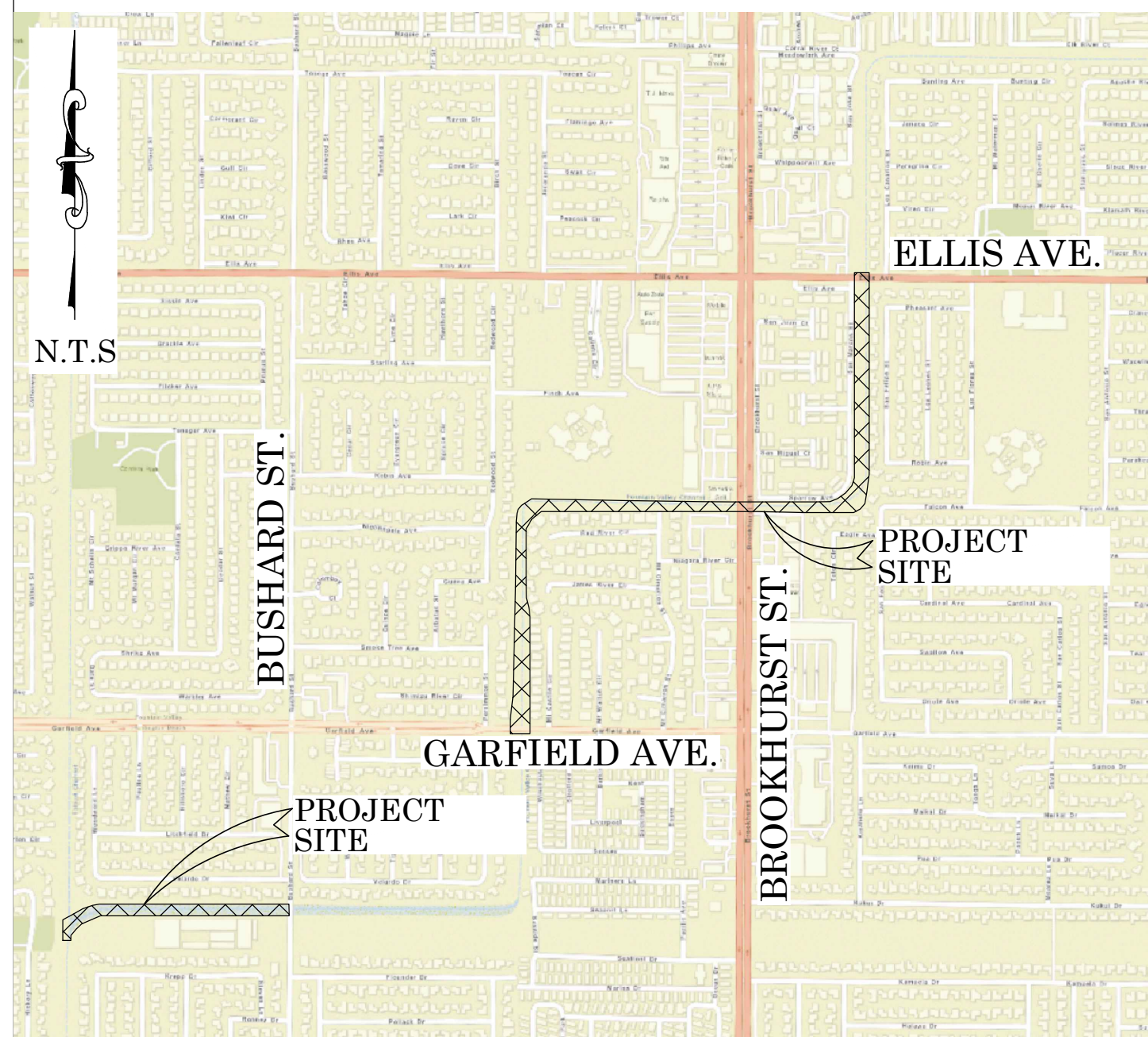




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
FOUNTAIN VALLEY CHANNEL
REHABILITATION



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 29TH DAY OF JUNE, 2021.

Elliott Medina

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 29TH DAY OF JUNE, 2021.

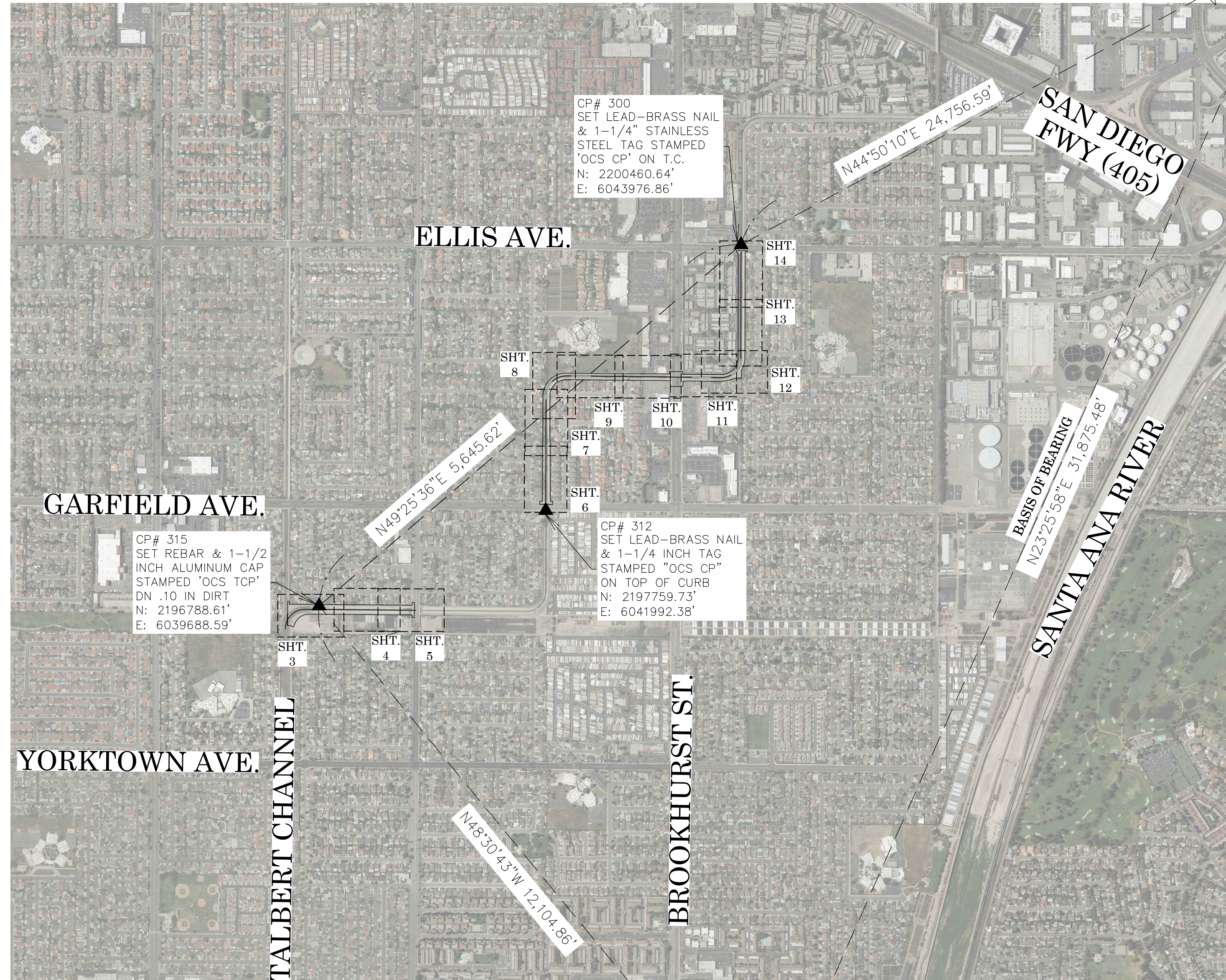
Wade Weaver

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



U.S. Survey
Foot

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



FOUND CGPS "SACY"
N: 2218015.22'
E: 6061433.13'
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/.

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 (FVPK) AND (SACY) BEING NORTH 23°25'58" EAST 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 (2017.50) EPOCH ADJUSTMENT.
ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00002250. ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

COMBINATION FACTOR WAS HELD AT: CONTROL POINT #312
N: 2197759.73', E: 6041992.38', ELEVATION = 15.03'

VERTICAL DATUM

O.C.S. BM. FV-54-70 ELEV. = 16.695' YEAR LEVELED: 2005

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

DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "FV-54-70", SET IN THE SOUTHEAST CORNER OF A 6 FT. BY 11 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BROOKHURST STREET AND GARFIELD AVENUE, 1 FT. NORTHERLY OF THE NORTH CURB ALONG GARFIELD AVENUE AND 95 FT. EASTERLY OF THE PROLONGATION OF THE EAST CURB ALONG BROOKHURST STREET. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

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	TITLE SHEET
SHEET 2	ALIGNMENT SHEET
SHEETS 3-14	TOPOGRAPHIC MAP

BASIS OF STATIONING

STA 14+39.06 WAS HELD AT THE INTERSECTION OF THE CHANNEL AND BUSHARD ST. PER RECORD PLAN D02-101-4A REVISION DATE JAN. 1990

STA 37+30.53 WAS HELD AT THE INTERSECTION OF THE CHANNEL AND GARFIELD AVE. PER RECORD PLAN D05-101-7R DATED MAR. 1993

PURPOSE OF SURVEY

A TOPOGRAPHIC SURVEY OF FOUNTAIN VALLEY CHANNEL WAS REQUESTED TO DETERMINE SEDIMENT REMOVAL QUANTITIES WITHIN THE EARTHEN BOTTOM REACH.

FOUND CGPS "FVPK"
N: 2188769.57'
E: 6048756.26'
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/.

TOPOGRAPHIC MAPPING PROJECT

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			FOUNTAIN VALLEY CHANNEL REHABILITATION				
			TITLE SHEET				
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY				
			DATE OF SURVEY: 07/15/2020		BY: R. MACIAS, PLS & CREW		
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
			SCALE: N.T.S.		W.O. #EF21460	FILE #1920PW-IN0030	
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB TOPO. 2020.DWG				
MARK	DATE	ITEM		SHEET NO. 1 of 14			
REVISIONS							

MONUMENT NOTES

- 1

FD 2 INCH IRON PIPE & 3/4 INCH TAG, PER (R5), DN. 1.0' IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF BROOKHURST ST. AND GARFIELD AVE.
- 2

FD 2-1/2 INCH PUNCHED BRASS DISC, PER (R6), DN. 1.70 IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF ELLIS AVE. AND WARD ST.
- 3

FD PUNCHED SPIKE & WASHER STAMPED "PLS 7914" PER (R1) AND (R2), FLUSH WITH A.C., S51°47'44"E 0.10' FROM CENTERLINE INTERSECTION OF TALBERT CHANNEL AND YORKTOWN AVE.
- 4

FD GEAR SPIKE SHANK, IN LIEU OF GEAR SPIKE AND WASHER STAMPED "LS 5411", PER (R4), DN. 0.15' IN A.C. 0.08' SOUTH OF THE CENTERLINE OF GARFIELD AVE.
- 5

FD GEAR SPIKE & 1-1/2 INCH WASHER, PER (R3), STAMPED 'CITY OF HB' FLUSH WITH A.C., ACCEPTED AS THE CENTERLINE INTERSECTION OF BUSHARD ST. AND GARFIELD AVE.
- 6

FD 2 INCH IRON PIPE & 3/4 INCH TAG STAMPED 'CITY OF HB RCE 10655', PER (R3), DN. 1.20' IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF YORKTOWN AVE. AND MAGNOLIA ST.
- 7

FD GEAR SPIKE & 1-1/2 INCH WASHER STAMPED 'LS 5662', PER (R5), FLUSH WITH A.C., ACCEPTED AS THE CENTERLINE INTERSECTION OF YORKTOWN AVE. AND BUSHARD ST.
- 8

FD 2 INCH PUNCHED BRASS DISK, PER (R3), DN. 0.80' IN WELL ACCEPTED AS THE CENTERLINE INTERSECTION OF MAGNOLIA ST. AND GARFIELD AVE.
- 9

FD 2-1/2" BRASS DISK PER (R9), DN 0.8' IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF BROOKHURST ST. AND ELLIS AVE.

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 1.00002250.

COMBINATION FACTOR WAS HELD AT POINT NUMBER 312
N: 2197759.73', E: 6041992.38', ELEVATION= 15.03'

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

ALIGNMENT ESTABLISHMENT

THE CENTERLINE CONSTRUCTION ALIGNMENT SHOWN HEREON WAS DERIVED BY HOLDING A BEST FIT RECORD ALIGNMENT PER RECORD PLANS D02-101-4A REVISION DATE JAN. 1990 AND D05-101-7R DATED MAR. 1993 BETWEEN THE EXISTING MID POINTS OF EXISTING CONCRETE STRUCTURES.

SAID ALIGNMENT IS REFERENCED IN THE TOPOGRAPHIC MAP SHEETS AS "CL CONSTRUCTION FOUNTAIN VALLEY CHANNEL".

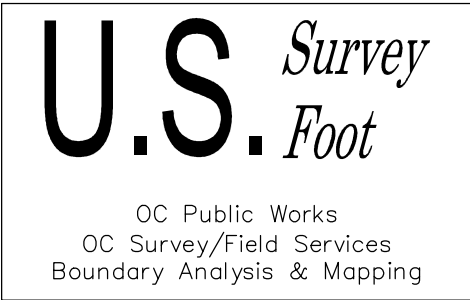
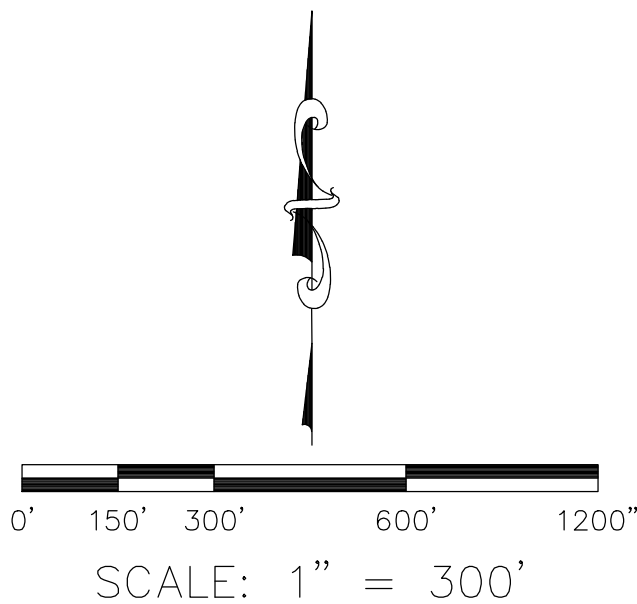
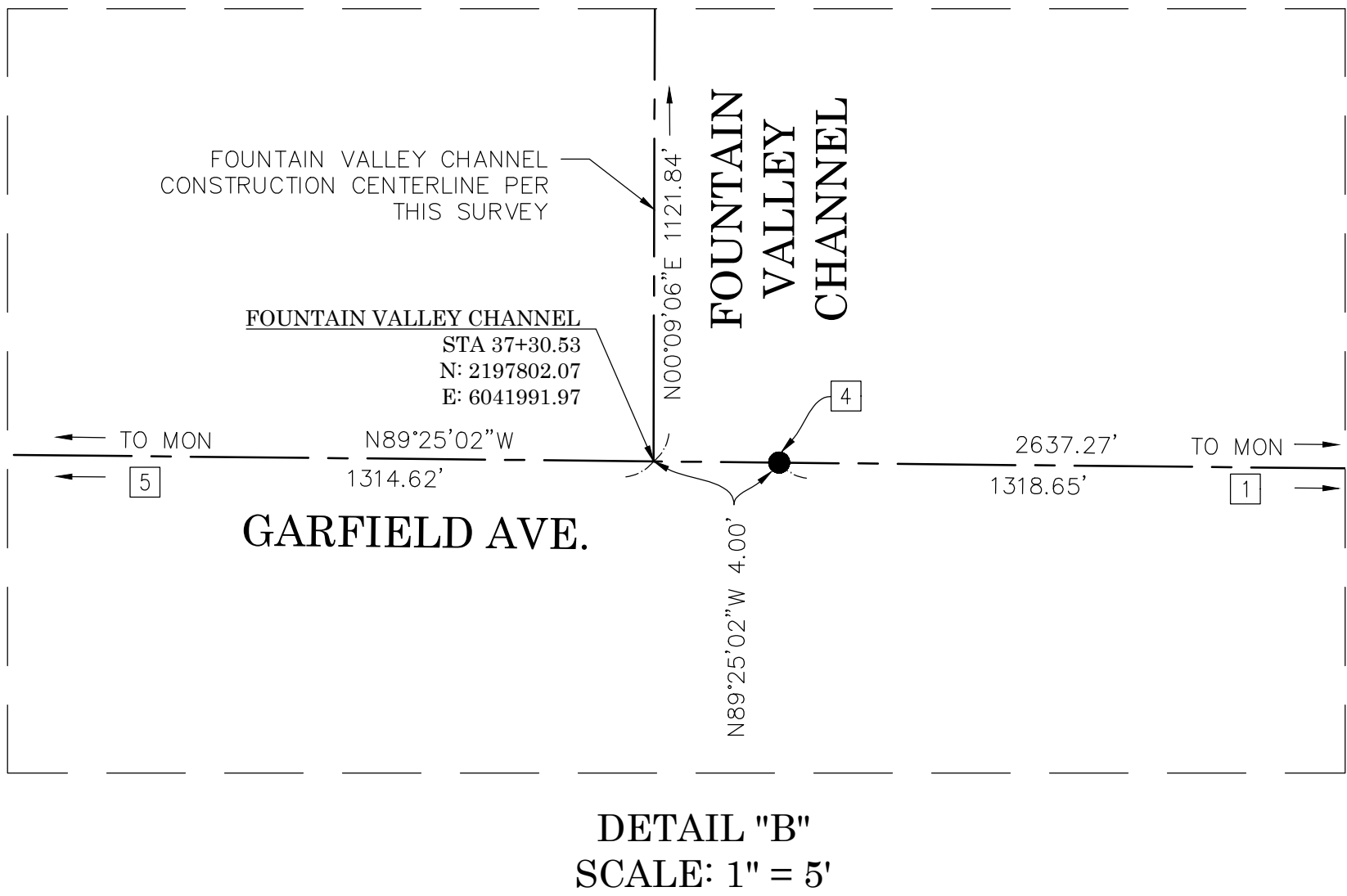
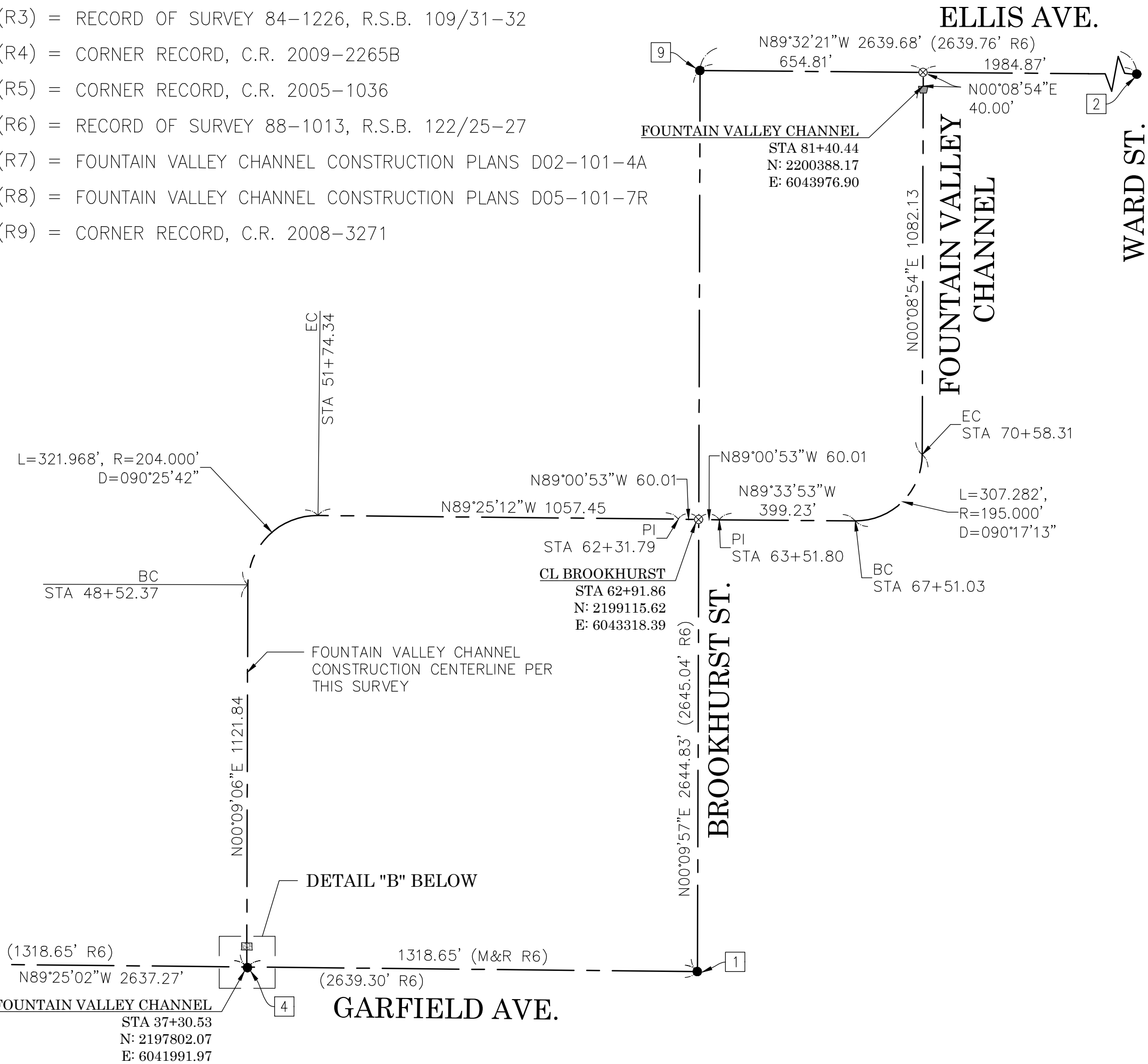
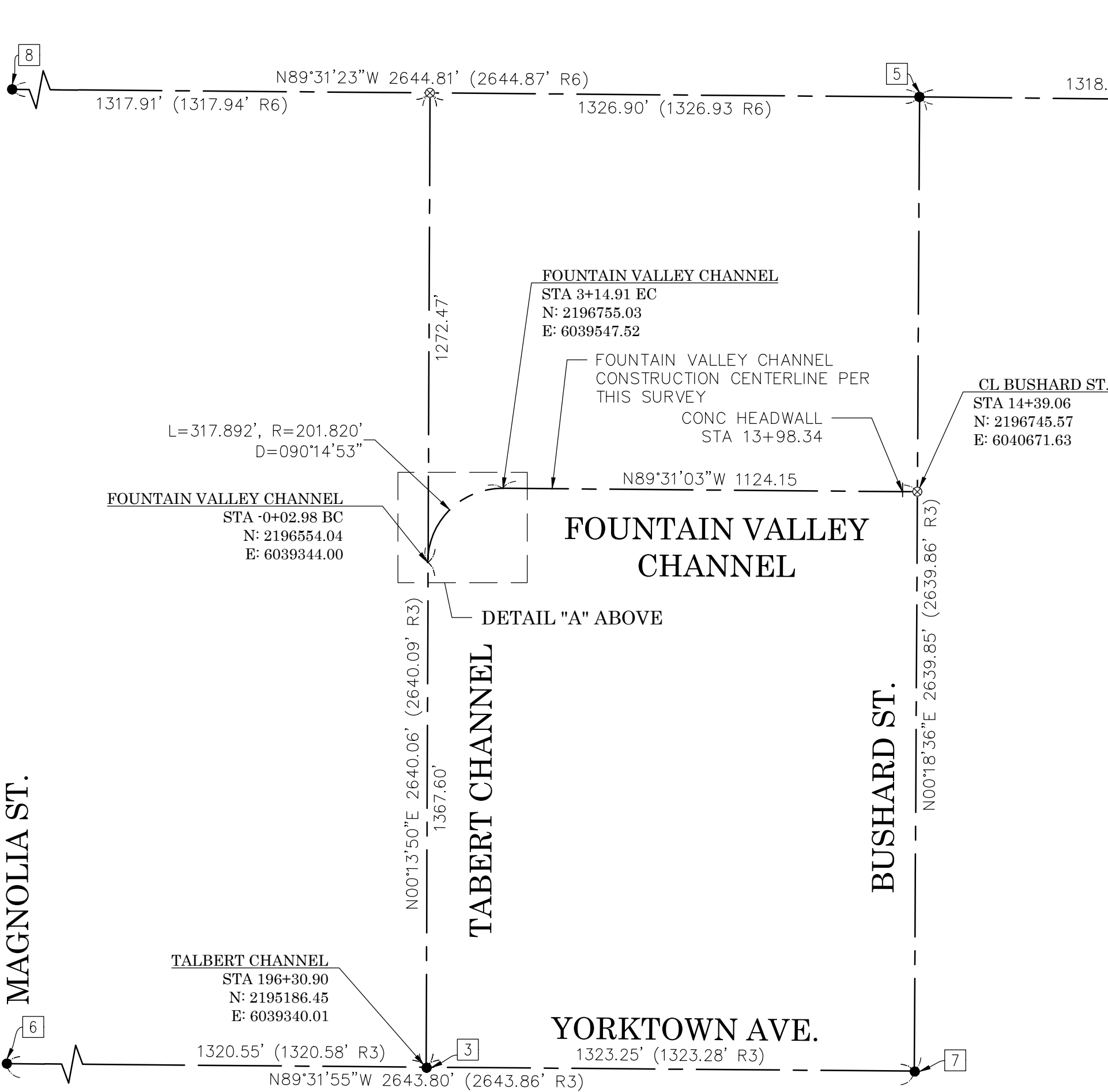
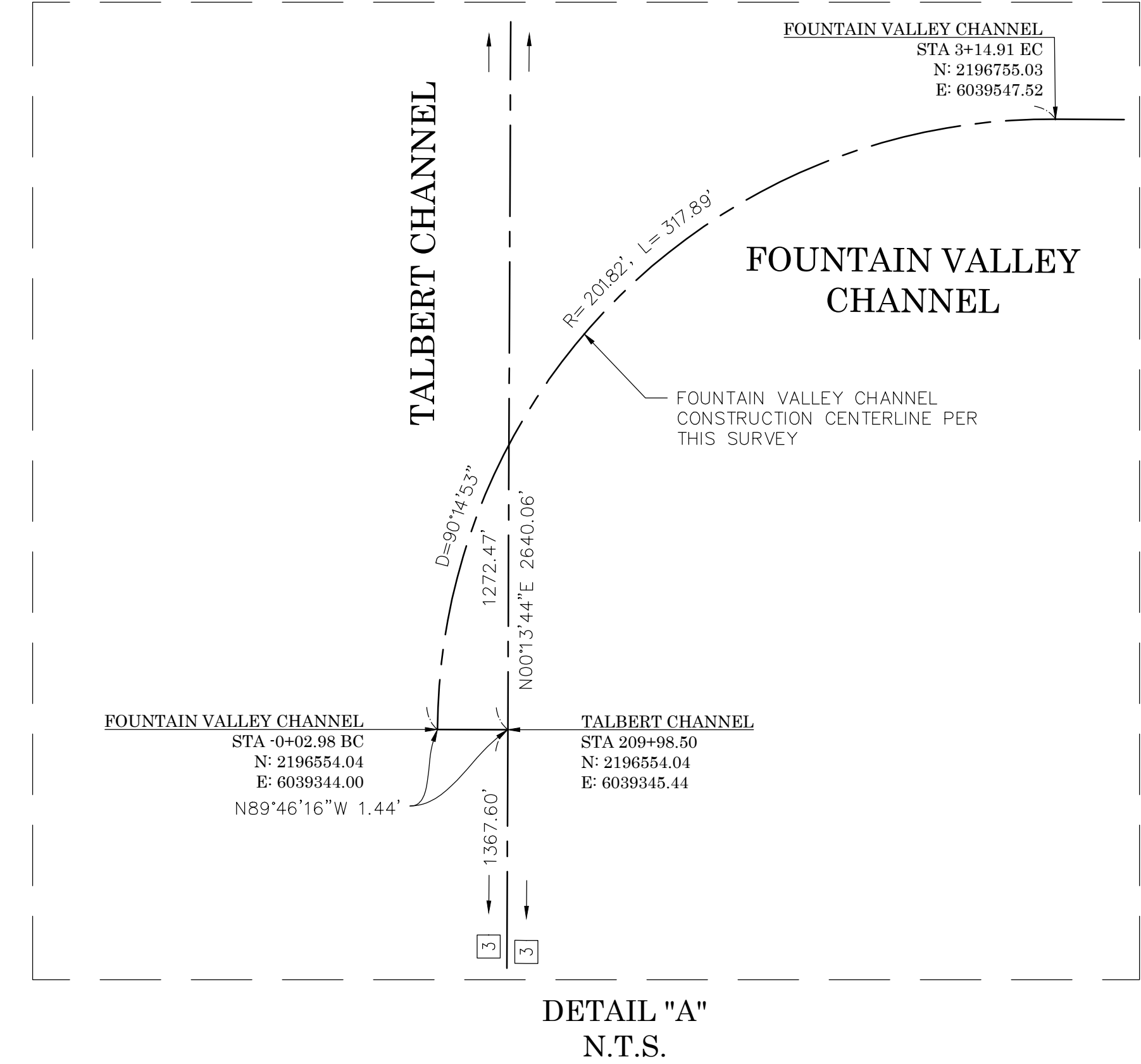
BASIS OF STATIONING

STA 14+39.06 WAS HELD AT THE INTERSECTION OF THE CHANNEL AND BUSHARD ST. PER RECORD PLAN D02-101-4A REVISION DATE JAN. 1990

STA 37+30.53 WAS HELD AT THE INTERSECTION OF THE CHANNEL AND GARFIELD AVE. PER RECORD PLAN D05-101-7R DATED MAR. 1993

REFERENCES

- (R1) = TRACT 17239, M.M. 926/19-24
(R2) = CORNER RECORD, C.R. 2016-0380
(R3) = RECORD OF SURVEY 84-1226, R.S.B. 109/31-32
(R4) = CORNER RECORD, C.R. 2009-2265B
(R5) = CORNER RECORD, C.R. 2005-1036
(R6) = RECORD OF SURVEY 88-1013, R.S.B. 122/25-27
(R7) = FOUNTAIN VALLEY CHANNEL CONSTRUCTION PLANS D02-101-4A
(R8) = FOUNTAIN VALLEY CHANNEL CONSTRUCTION PLANS D05-101-7R
(R9) = CORNER RECORD, C.R. 2008-3271

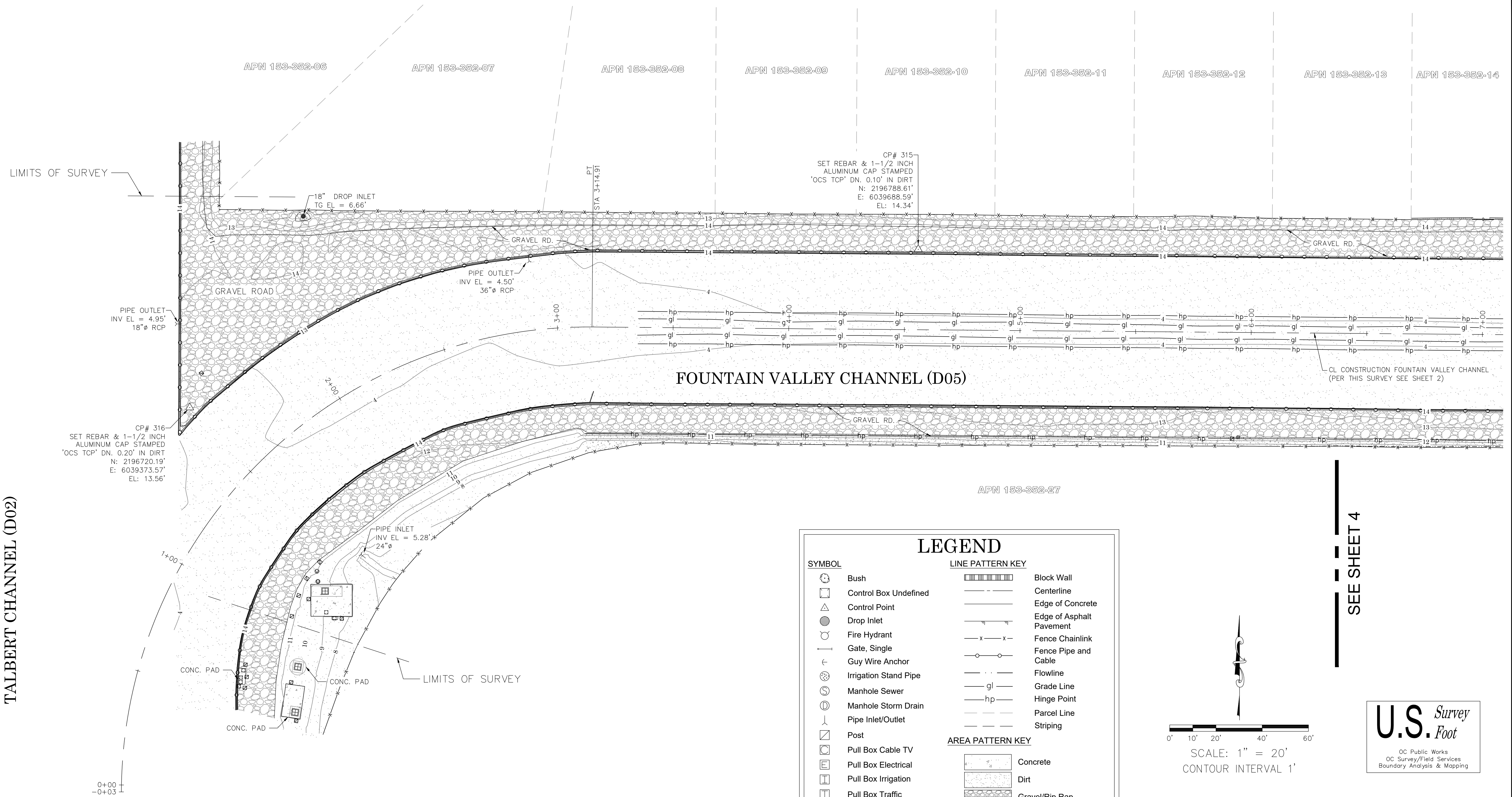


LEGEND

- FOUND MONUMENT AS NOTED
⊗ SEARCHED FOUND NOTHING

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			FOUNTAIN VALLEY CHANNEL ALIGNMENT		
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE		
			DATE OF SURVEY: 07/15/2020 MAPPING	BY: R. MACIAS, PLS & CREW BY: L. ISLAS	SHEET NO. 2 of 14
			OFFICE CHECK	BY: E. MEDINA, PLS	
MARK	DATE	ITEM	FIELD CHECK	BY: R. MACIAS, PLS	
REVISIONS			SCALE: 1" = 20'	W.O. #EF21460	FILE # 1920PW-IN0030 FILE: FOUNTAIN VALLEY CHANNEL_ALGN_2020.DWG

TALBERT CHANNEL (D02)



LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Gate, Single
- Guy Wire Anchor
- Irrigation Stand Pipe
- Manhole Sewer
- Manhole Storm Drain
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Irrigation
- Pull Box Traffic
- Sewer Cleanout
- Sign Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground
- Valve Gas
- Valve Water
- Vault Cable TV
- Vault Undefined
- Vent Pipe

LINE PATTERN KEY

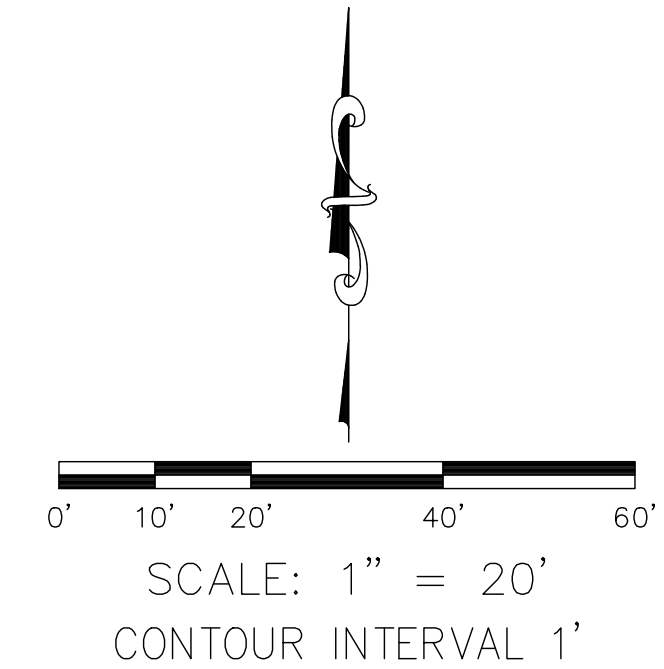
- Block Wall
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Hinge Point
- Parcel Line
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Gravel/Rip Rap

ABBREVIATION

- CONC Concrete
- CP Control Point
- DWY Driveway
- EL Elevation
- FD Found
- INV Invert
- PED Pedestrian
- TC Top of Curb
- UP Utility Pole



SEE SHEET 4

U.S. Survey
Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			FOUNTAIN VALLEY CHANNEL REHABILITATION			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE			
			DATE OF SURVEY: 07/15/2020		BY: R. MACIAS, PLS & CREW	
			MAPPING		BY: L. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
			SCALE: 1" = 20'		W.O. #EF21460	
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG		FILE #1920PW-IN0030	
REVISIONS						
MARK	DATE	ITEM	SHEET NO. 3 of 14			

SEE SHEET 3

APN 153-352-13

APN 153-352-14

APN 153-352-15

APN 153-352-16

APN 153-352-17

APN 153-352-18

APN 153-352-19

APN 153-352-20

APN 153-352-21

APN 153-352-22

APN 153-352-23

APN 153-352-24

CP# 314
SET REBAR & 1-1/2 INCH
ALUMINUM CAP STAMPED
'OCS TCP' DN. 0.10' IN DIRT
N: 2196784.02'
E: 6040273.78'
EL: 14.81'

GRAVEL RD.

GRAVEL RD.

PIPE OUTLET
INV EL = 10.88'
34"Ø RCP

CL CONSTRUCTION FOUNTAIN VALLEY CHANNEL
(PER THIS SURVEY SEE SHEET 2)

FOUNTAIN VALLEY CHANNEL (D05)

GRAVEL RD.

GRAVEL RD.

APN 153-352-27

SEE SHEET 5

LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Gate, Single
- Guy Wire Anchor
- Irrigation Stand Pipe
- Manhole Sewer
- Manhole Storm Drain
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Irrigation
- Pull Box Traffic
- Sewer Cleanout
- Sign Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground
- Valve Gas
- Valve Water
- Vault Cable TV
- Vault Undefined
- Vent Pipe

LINE PATTERN KEY

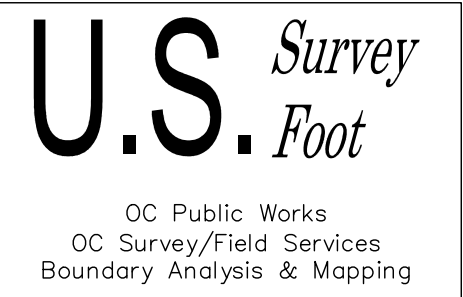
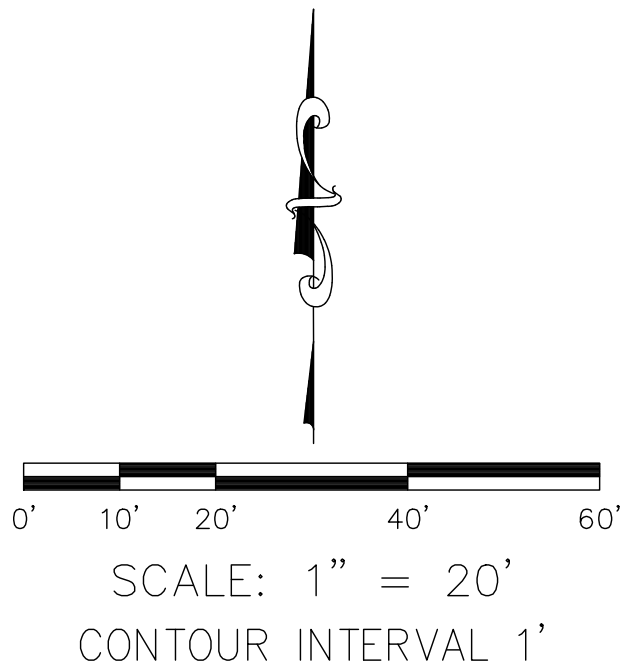
- Block Wall
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Hinge Point
- Parcel Line
- Striping

AREA PATTERN KEY

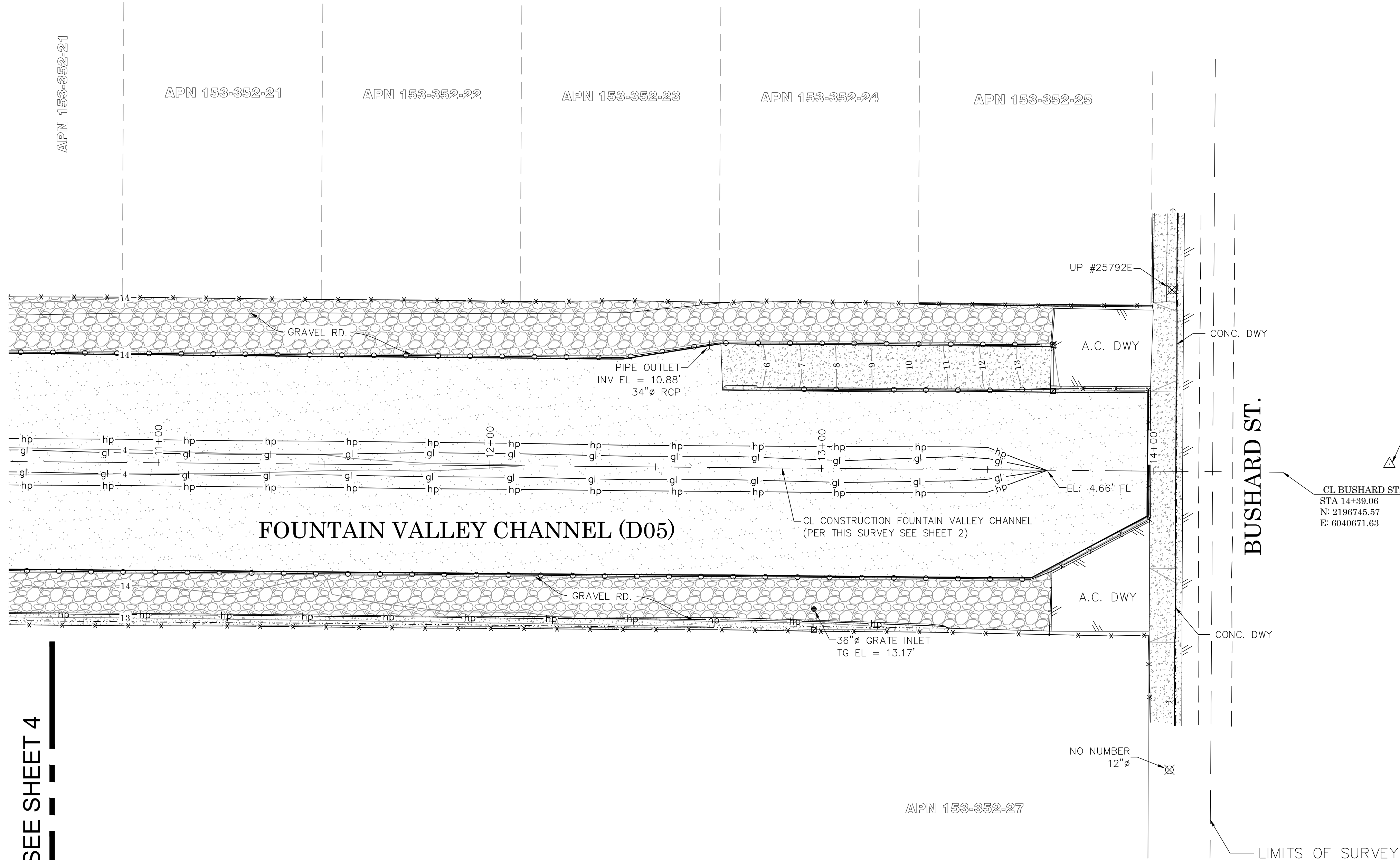
- Concrete
- Dirt
- Gravel/Rip Rap

ABBREVIATION

- CONC Concrete
- CP Control Point
- DWY Driveway
- EL Elevation
- FD Found
- INV Invert
- PED Pedestrian
- TC Top of Curb
- UP Utility Pole



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			FOUNTAIN VALLEY CHANNEL REHABILITATION		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE		
			DATE OF SURVEY: 07/15/2020	BY: R. MACIAS, PLS & CREW	SHEET NO. 4 of 14
			MAPPING	BY: I. ISLAS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: R. MACIAS, PLS	
MARK	DATE	ITEM	SCALE: 1" = 20'	W.O. #EF21460	FILE #1920PW-IN0030
REVISIONS			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG		



SYMBOL

Bush

Control Box Undefined

Control Point

Drop Inlet

Fire Hydrant

Gate, Single

Guy Wire Anchor

Irrigation Stand Pipe

Manhole Sewer

Manhole Storm Drain

Pipe Inlet/Outlet

Post

Pull Box Cable TV

Pull Box Electrical

Pull Box Irrigation

Pull Box Traffic

Sewer Cleanout

Sign Post

Tree

Utility Pole, Underground

Utility Pole w/ 1 Light, Underground

Valve Gas

Valve Water

Vault Cable TV

Vault Undefined

Vent Pipe

LINE PATTERN KEY

Block Wall

Centerline

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Pipe and Cable

Flowline

Grade Line

Hinge Point

Parcel Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel/Rip Rap

ABBREVIATION

CONC

Concrete

CP

Control Point

DWY

Driveway

EL

Elevation

FD

Found

INV

Invert

PED

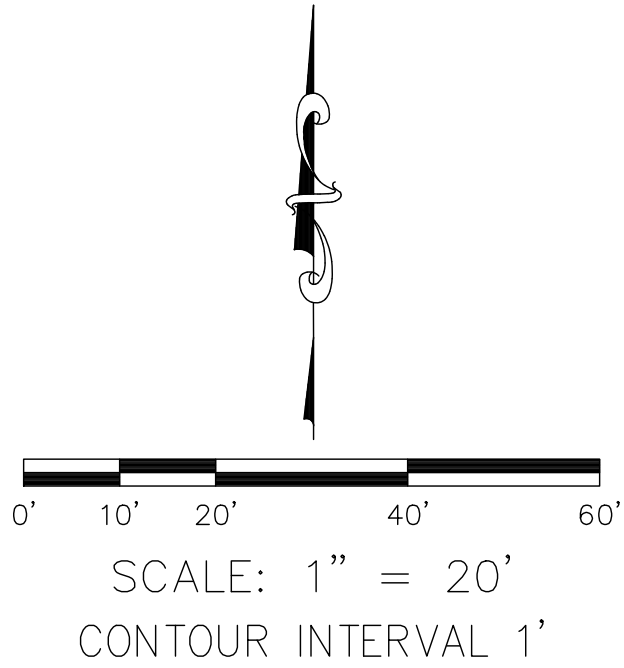
Pedestrian

TC

Top of Curb

UP

Utility Pole



U.S. Survey
Foot

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

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			FOUNTAIN VALLEY CHANNEL REHABILITATION				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE				
			DATE OF SURVEY: 07/15/2020		BY: R. MACIAS, PLS & CREW		SHEET NO. 5 of 14
			MAPPING		BY: I. ISLAS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
			SCALE: 1" = 20'		W.O. #EF21460		
			FILE: FOUNTAIN VALLEY CHANNEL (D05)		REHAB_TOPO_2020.DWG		

REVISIONS		
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SYMBOL

LEGEND

LINE PATTERN KEY

Block Wall

Centerline

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Pipe and Cable

Flowline

Grade Line

Hinge Point

Parcel Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel/Rip Rap

ABBREVIATION

CONC

Concrete

CP

Control Point

DWY

Driveway

EL

Elevation

FD

Found

INV

Invert

PED

Pedestrian

TC

Top of Curb

UP

Utility Pole

SEE SHEET 7

APN 157-221-60

APN 157-221-59

APN 157-221-58

APN 157-221-57

APN 157-221-56

APN 157-221-55

APN 157-221-54

APN 157-221-53

APN 157-221-52

APN 157-221-51

APN 157-221-50

APN 157-231-52

APN 157-231-51

APN 157-231-50

APN 157-231-49

APN 157-231-37

PIPE OUTLET
INV EL = 7.37'
36" Ø RCP

CP# 311
SET REBAR & 1-1/2 INCH
ALUMINUM CAP STAMPED
OCS TOP DN. 0.10' IN DIRT
N: 2198164.11
E: 6042020.22
EL: 15.20

GRAVEL PATH

CL CONSTRUCTION FOUNTAIN VALLEY CHANNEL
(PER THIS SURVEY SEE SHEET 2)

GRAVEL RD.

UP #1587468E

CONC. DWY

CONC. DWY

LIMITS OF SURVEY

GARFIELD AVE.

FOUNTAIN VALLEY CHANNEL
STA 37+30.53
N: 2197802.07
E: 6041991.97

CP# 312
SET LEAD—BRASS NAIL
& 1-1/4 INCH TAG STAMPED
'OCS CP' ON TOP OF CURB
N: 2196748.02
E: 6040703.77
EL: 15.42

0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL 1'

U.S. Survey Foot

OC Public Works

OC Survey/Field Services

Boundary Analysis & Mapping

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
		FOUNTAIN VALLEY CHANNEL REHABILITATION		
		TOPOGRAPHIC MAP		
		PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE. TO D/S ELLIS AVE.		
MARK	DATE	DATE OF SURVEY: 07/15/2020	BY: R. MACIAS, PLS & CREW	
		MAPPING	BY: I. ISLAS	
		OFFICE CHECK	BY: E. MEDINA, PLS	
		FIELD CHECK	BY: R. MACIAS, PLS	
REVISIONS		SCALE: 1" = 20'	W.O. #EF21460	
		FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG		
		SHEET NO. 6 of 14		

APN 157-024-05

APN 157-272-11

APN 157-024-06

APN 157-272-12

APN 157-024-07

APN 157-272-13

APN 157-024-08

APN 157-272-14

APN 157-024-09

APN 157-272-42

APN 157-272-41

APN 157-272-40

APN 157-272-39

APN 157-221-61

APN 157-281-41

APN 157-281-40

PIPE OUTLET
INV EL = 8.08'
28"Ø RCP

PIPE OUTLET
INV EL = 7.75'
24"Ø RCP

CP# 310
SET REBAR & 1-1/2 INCH
ALUMINUM CAP STAMPED
OCS TCP' DN. 0.10' IN DIRT
N: 2198756.93
E: 6042021.22
EL: 16.23

PIPE OUTLET
INV EL = 7.43'
24"Ø RCP

SEE SHEET 8

SEE SHEET 6

LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Gate, Single
- Guy Wire Anchor
- Irrigation Stand Pipe
- Manhole Sewer
- Manhole Storm Drain
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Irrigation
- Pull Box Traffic
- Sewer Cleanout
- Sign Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground
- Valve Gas
- Valve Water
- Vault Cable TV
- Vault Undefined
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Hinge Point
- Parcel Line
- Striping

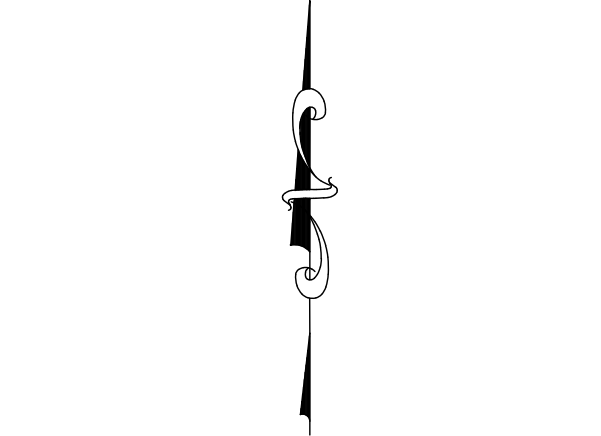
AREA PATTERN KEY

- Concrete
- Dirt
- Gravel/Rip Rap

ABBREVIATION

- CONC Concrete
- CP Control Point
- DWY Driveway
- EL Elevation
- FD Found
- INV Invert
- PED Pedestrian
- TC Top of Curb
- UP Utility Pole

FOUNTAIN VALLEY CHANNEL (D05)



SCALE: 1" = 20'
CONTOUR INTERVAL 1'

U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			FOUNTAIN VALLEY CHANNEL REHABILITATION	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY	
			CHANNEL AND U/S OF GARFIELD AVE. TO D/S ELLIS AVE.	
			DATE OF SURVEY: 07/15/2020	BY: R. MACIAS, PLS & CREW
			MAPPING	BY: I. ISLAS
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF21460
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG	FILE #1920PW-IN0030
MARK	DATE	ITEM		
REVISIONS				
			SHEET NO.	
			7 of 14	

LEGEND

SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Gate, Single
- Guy Wire Anchor
- Irrigation Stand Pipe
- Manhole Sewer
- Manhole Storm Drain
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Irrigation
- Pull Box Traffic
- Sewer Cleanout
- Sign Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground
- Valve Gas
- Valve Water
- Vault Cable TV
- Vault Undefined
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Hinge Point
- Parcel Line
- Striping

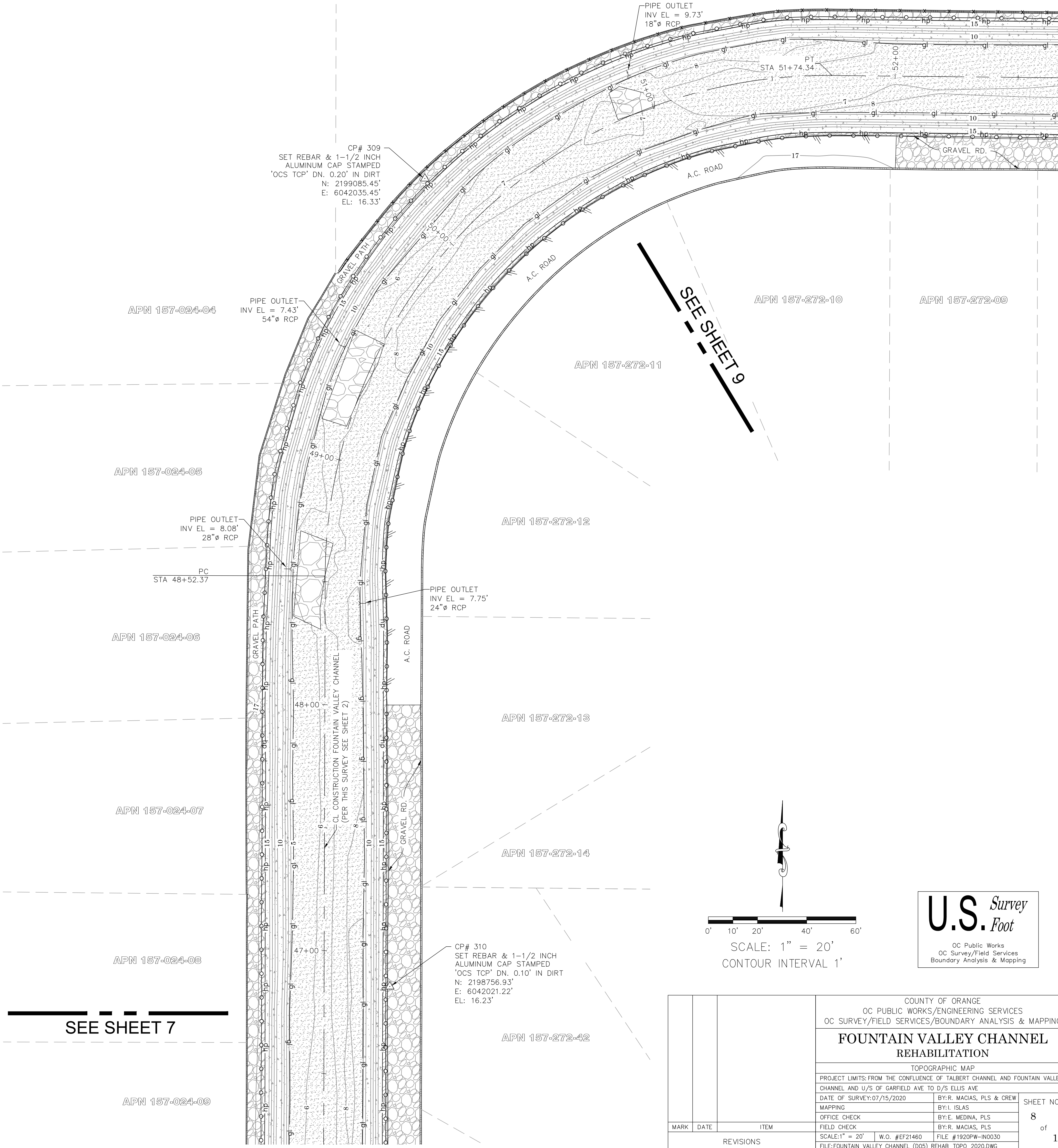
AREA PATTERN KEY

- Concrete
- Dirt
- Gravel/Rip Rap

ABBREVIATION

- CONC Concrete
- CP Control Point
- DWY Driveway
- EL Elevation
- FD Found
- INV Invert
- PED Pedestrian
- TC Top of Curb
- UP Utility Pole

APN 157-033-15



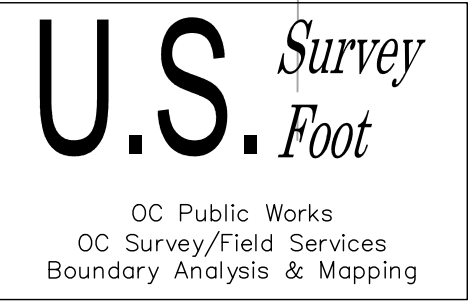
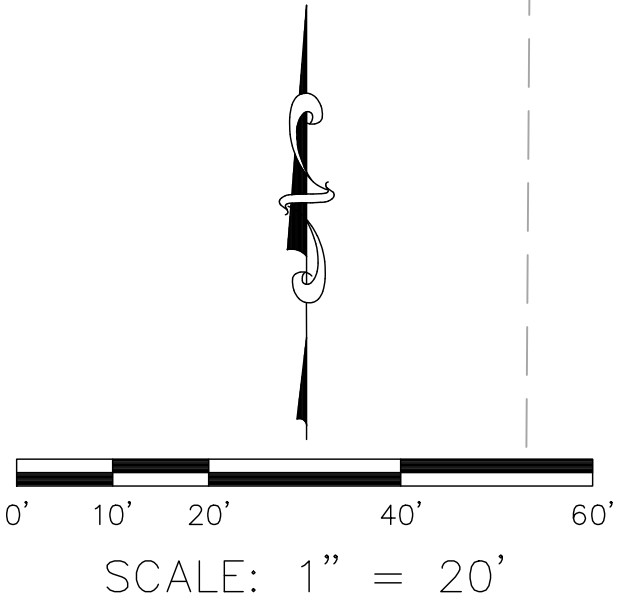
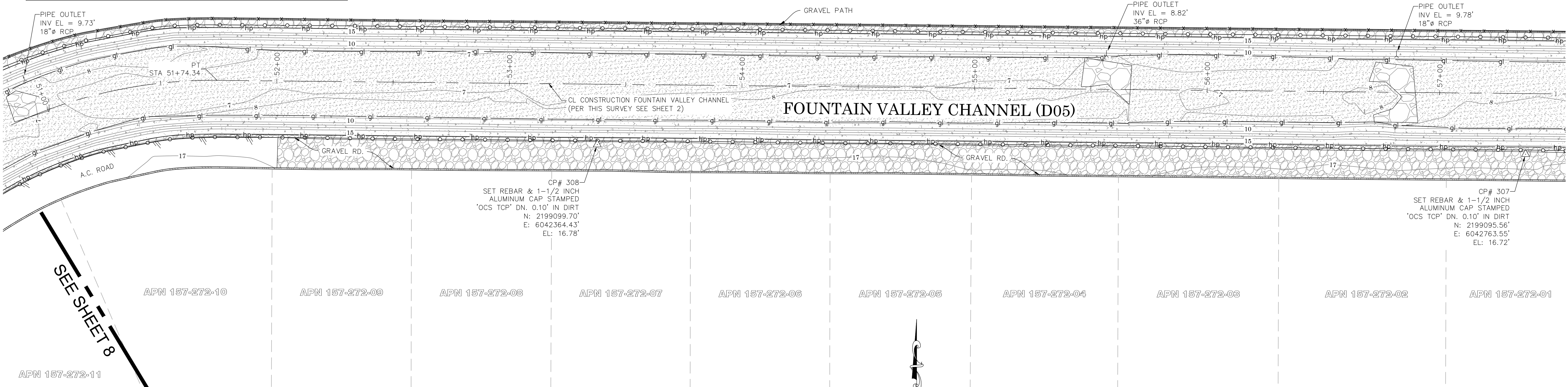
LEGEND

SYMBOL	LINE PATTERN KEY	
		Block Wall
		Centerline
		Edge of Concrete
		Edge of Asphalt Pavement
		Fence Chainlink
		Fence Pipe and Cable
		Flowline
		Grade Line
		Hinge Point
		Parcel Line
		Striping

AREA PATTERN KEY	
	Concrete
	Dirt
	Gravel/Rip Rap

ABBREVIATION	
CONC	Concrete
CP	Control Point
DWY	Driveway
EL	Elevation
FD	Found
INV	Invert
PED	Pedestrian
TC	Top of Curb
UP	Utility Pole

SEE SHEET 10



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			FOUNTAIN VALLEY CHANNEL REHABILITATION	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE	
			DATE OF SURVEY: 07/15/2020	BY: R. MACIAS, PLS & CREW
			MAPPING	BY: I. ISLAS
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF21460
			FILE: #1920PW-IN0030	
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG	
MARK	DATE	ITEM		
			REVISIONS	

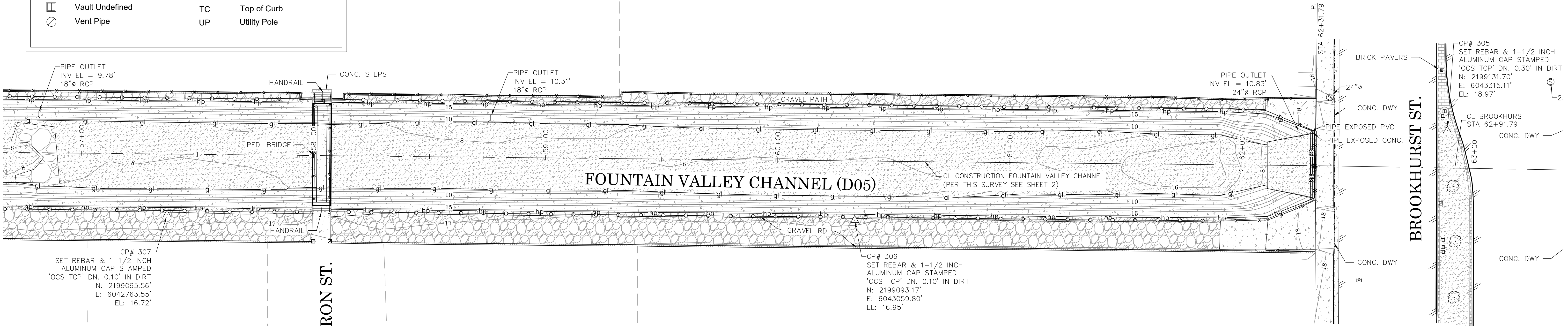
SHEET NO.	9
of	14

LEGEND

SYMBOL	LINE PATTERN KEY	
		Block Wall
		Centerline
		Edge of Concrete
		Edge of Asphalt Pavement
		Fence Chainlink
		Fence Pipe and Cable
		Flowline
		Grade Line
		Hinge Point
		Parcel Line
		Striping

AREA PATTERN KEY	
	Concrete
	Dirt
	Gravel/Rip Rap

ABBREVIATION		
CONC	Concrete	
CP	Control Point	
DWY	Driveway	
EL	Elevation	
FD	Found	
INV	Invert	
PED	Pedestrian	
TC	Top of Curb	
UP	Utility Pole	



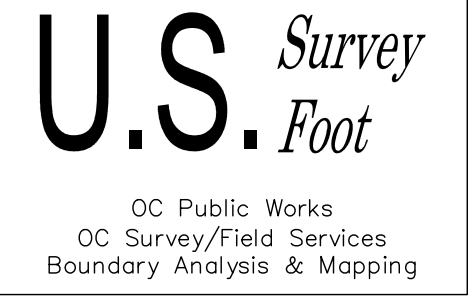
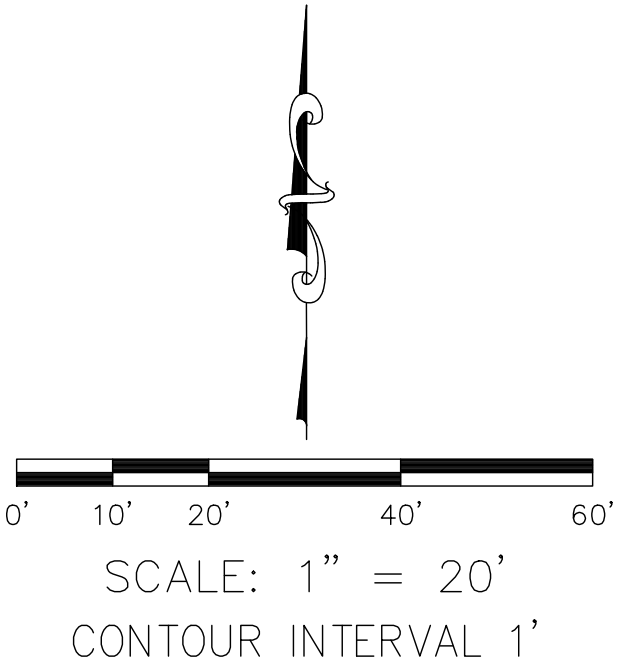
APN 157-272-02

SEE SHEET 9

APN 157-272-01

MT. CIMARRON ST.

APN 157-271-03

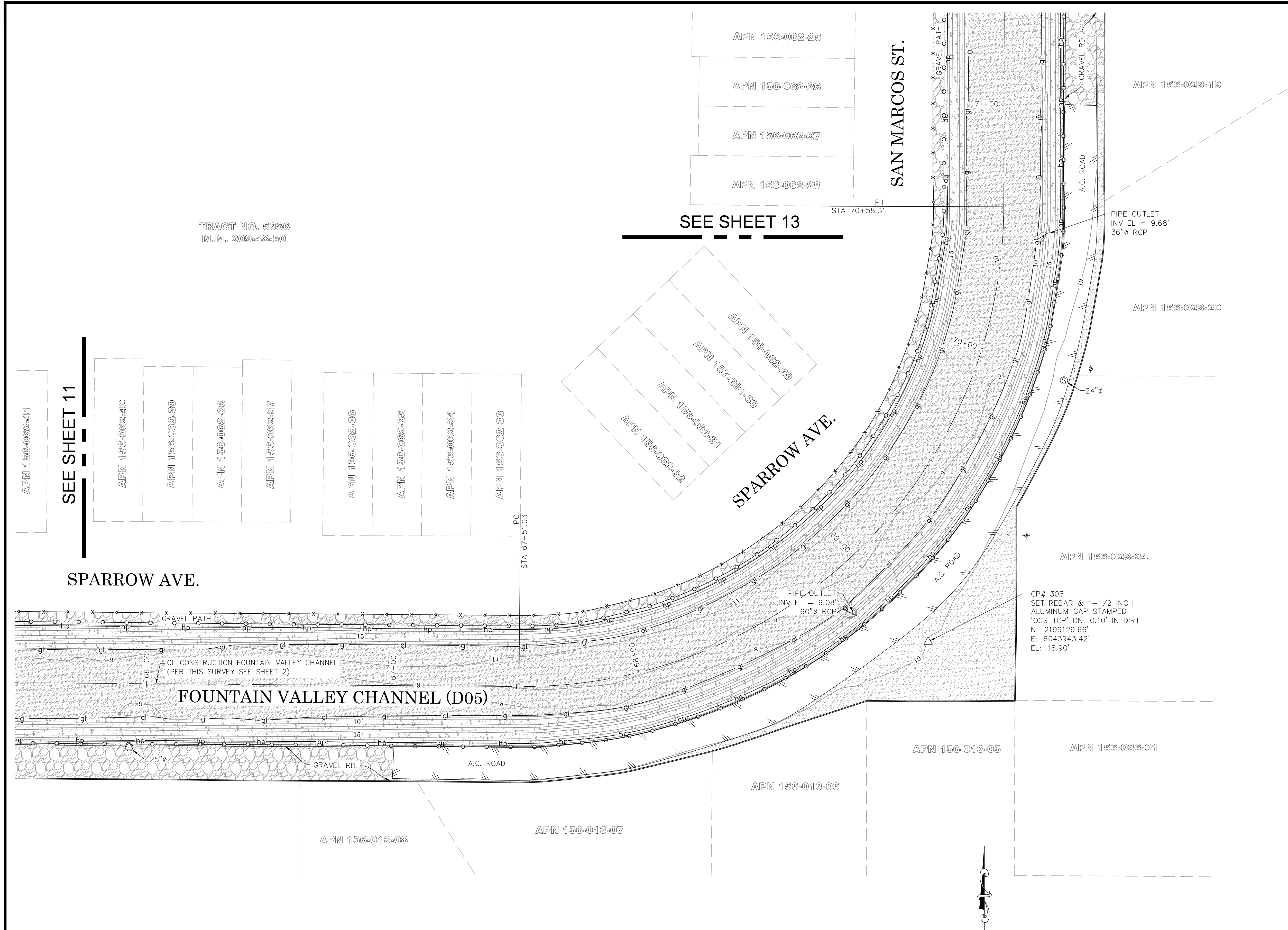


SEE SHEET 11

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			FOUNTAIN VALLEY CHANNEL REHABILITATION	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: FROM THE CONFLUENCE OF TALBERT CHANNEL AND FOUNTAIN VALLEY CHANNEL AND U/S OF GARFIELD AVE TO D/S ELLIS AVE	
			DATE OF SURVEY: 07/15/2020	BY: R. MACIAS, PLS & CREW
			MAPPING	BY: I. ISLAS
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF21460
			FILE: #1920PW-IN0030	
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG	
MARK	DATE	ITEM		
REVISIONS				
			SHEET NO. 10 of 14	

SYMBOL		LINE PATTERN KEY	
	Bush		Block Wall
	Control Box Undefined		Centerline
	Control Point		Edge of Concrete
	Drop Inlet		Edge of Asphalt Pavement
	Fire Hydrant		Fence Chainlink
	Gate, Single		Fence Pipe and Cable
	Guy Wire Anchor		Flowline
	Irrigation Stand Pipe		Grade Line
	Manhole Sewer		Hinge Point
	Manhole Storm Drain		Parcel Line
	Pipe Inlet/Outlet		Striping
	Post		
	Pull Box Cable TV	AREA PATTERN KEY	
	Pull Box Electrical		Concrete
	Pull Box Irrigation		Dirt
	Pull Box Traffic		Gravel/Rip Rap
	Sewer Cleanout		
	Sign Post	ABBREVIATION	
	Tree	CONC	Concrete
	Utility Pole, Underground	CP	Control Point
	Utility Pole w/ 1 Light, Underground	DWY	Driveway
	Valve Gas	EL	Elevation
	Valve Water	FD	Found
	Vault Cable TV	INV	Invert
	Vault Undefined	PED	Pedestrian
	Vent Pipe	TC	Top of Curb
		UP	Utility Pole

SAN MARCOS ST



SYMBOL

- Bush
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Gate, Single
- Guy Wire Anchor
- Irrigation Stand Pipe
- Manhole Sewer
- Manhole Storm Drain
- Pipe Inlet/Outlet
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Irrigation
- Pull Box Traffic
- Sewer Cleanout
- Sign Post
- Tree
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground
- Valve Gas
- Valve Water
- Vault Cable TV
- Vault Undefined
- Vent Pipe

LINE PATTERN KEY

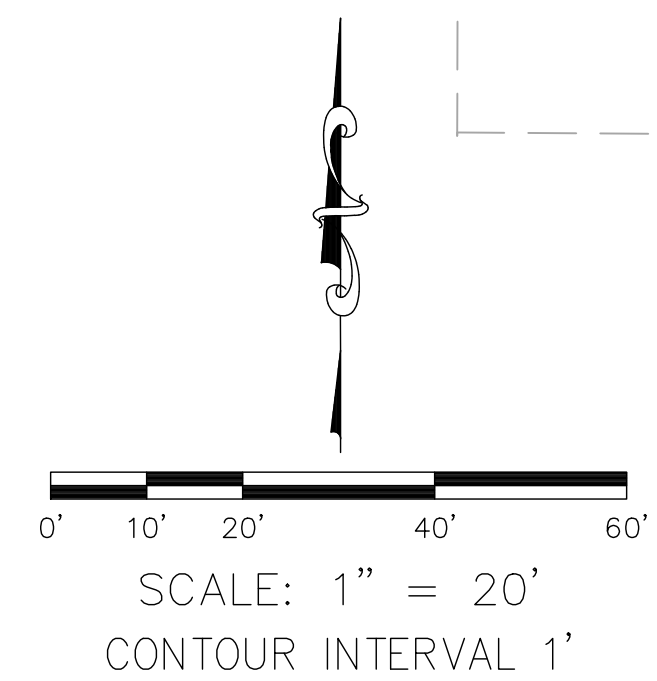
- Block Wall
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Hinge Point
- Parcel Line
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Gravel/Rip Rap

ABBREVIATION

CONC	Concrete
CP	Control Point
DWY	Driveway
EL	Elevation
FD	Found
INV	Invert
PED	Pedestrian
TC	Top of Curb
UP	Utility Pole



U.S. Survey

Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			FOUNTAIN VALLEY CHANNEL REHABILITATION	
			TOPOGRAPHIC MAP	
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			MAPPING	BY: I. ISLAS
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: R. MACIAS, PLS
			SCALE: 1" = 20'	W.O. #EF21460
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG	FILE: #1920PW-IN0030
MARK	DATE	ITEM		
REVISIONS				

SAN MARCOS ST.

SAN MARCOS ST.

SEE SHEET 14

APN 156-063-83
APN 156-063-84
APN 156-063-85
APN 156-063-86
APN 156-063-87
APN 156-063-88

APN 156-062-17
APN 156-062-18
APN 156-062-19
APN 156-062-20

APN 156-062-21
APN 156-062-22
APN 156-062-23
APN 156-062-24

APN 156-062-25
APN 156-062-26
APN 156-062-27
APN 156-062-28

TRACT NO. 5356
M.M. 209-48-50

SEE SHEET 12

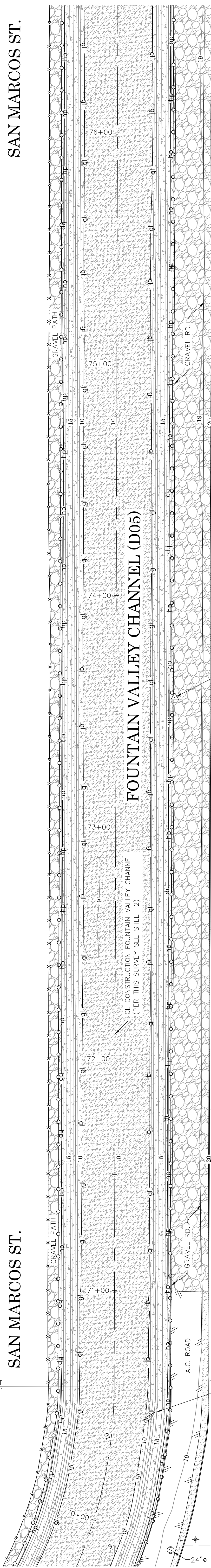
APN 156-062-29
APN 156-062-30
APN 157-231-31

SYMBOL	
	Bush
	Control Box Undefined
	Control Point
	Drop Inlet
	Fire Hydrant
	Gate, Single
	Guy Wire Anchor
	Irrigation Stand Pipe
	Manhole Sewer
	Manhole Storm Drain
	Pipe Inlet/Outlet
	Post
	Pull Box Cable TV
	Pull Box Electrical
	Pull Box Irrigation
	Pull Box Traffic
	Sewer Cleanout
	Sign Post
	Tree
	Utility Pole, Underground
	Utility Pole w/ 1 Light, Underground
	Valve Gas
	Valve Water
	Vault Cable TV
	Vault Undefined
	Vent Pipe

LINE PATTERN KEY	
	Block Wall
	Centerline
	Edge of Concrete
	Edge of Asphalt Pavement
	Fence Chainlink
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	Grade Line
	Hinge Point
	Parcel Line
	Striping

AREA PATTERN KEY	
	Concrete
	Dirt
	Gravel/Rip Rap

ABBREVIATION	
CONC	Concrete
CP	Control Point
DWY	Driveway
EL	Elevation
FD	Found
INV	Invert
PED	Pedestrian
TC	Top of Curb
UP	Utility Pole



APN 156-023-13

APN 156-023-14

APN 156-023-15

APN 156-023-16

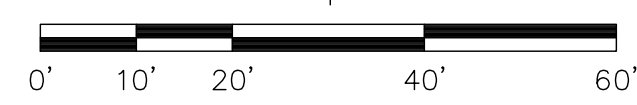
APN 156-023-17

APN 156-023-18

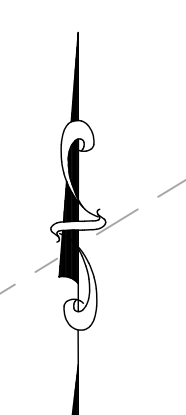
APN 156-023-19

CP# 302
SET REBAR & 1-1/2 INCH
ALUMINUM CAP STAMPED
'OCS TCP' DN. 0.20' IN DIRT
N: 2199603.68'
E: 6044000.30'
EL: 18.11'

PIPE OUTLET
INV EL = 9.68'
36" Ø RCP



SCALE: 1" = 20'
CONTOUR INTERVAL 1'



U.S. *Survey* *Foot*

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
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			TOPOGRAPHIC MAP			
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MARK	DATE	ITEM	DATE OF SURVEY: 07/15/2020		BY: R. MACIAS, PLS & CREW	
			MAPPING		BY: I. ISLAS	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: R. MACIAS, PLS	
REVISIONS			SCALE: 1" = 20'	W.O. #EF21460	FILE #1920PW-IN0030	13 of 14
			FILE: FOUNTAIN VALLEY CHANNEL (D05) REHAB_TOPO_2020.DWG			

