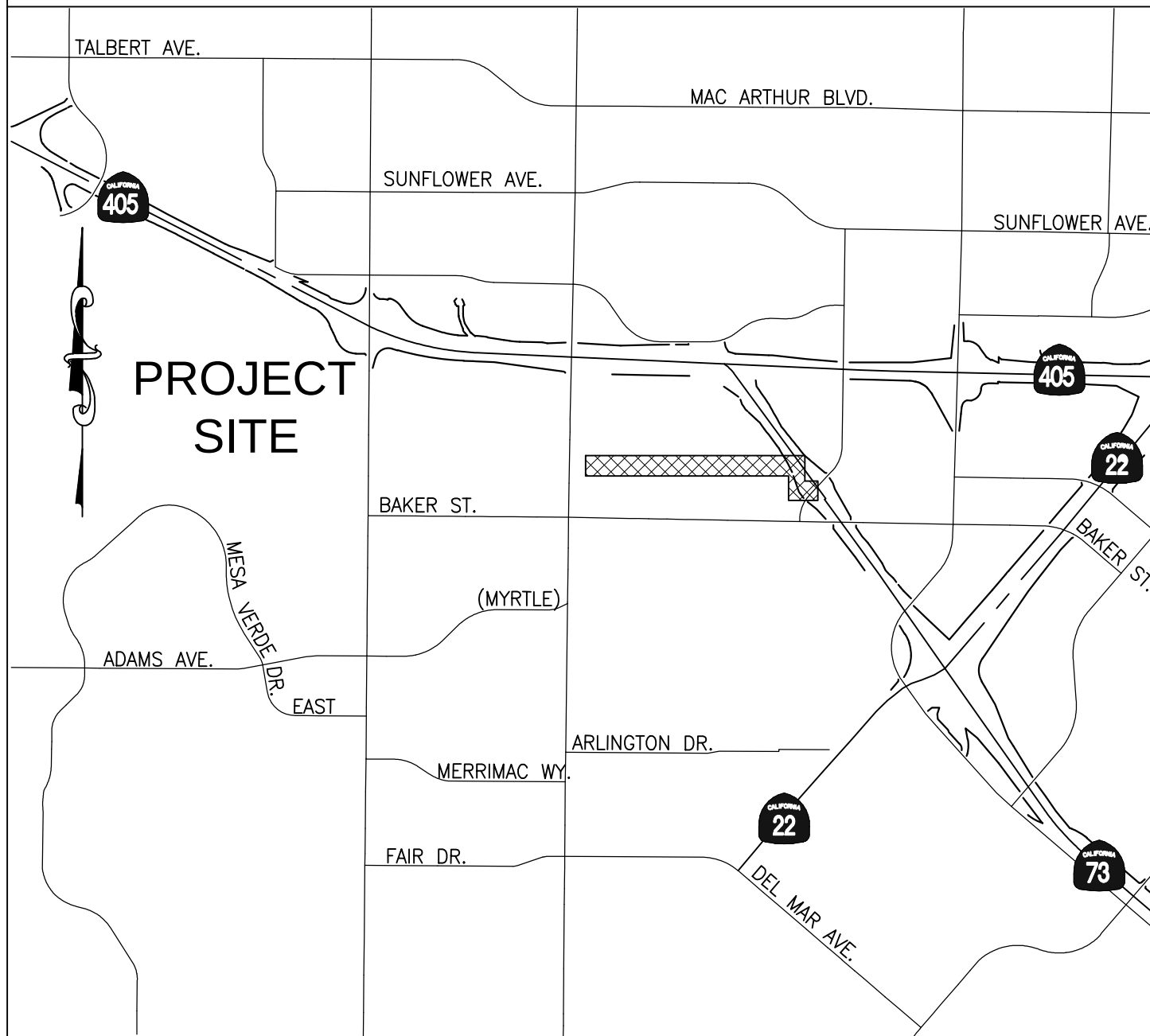




OC PUBLIC WORKS DEPARTMENT
SHANE SILSBY, DIRECTOR
KEVIN HILLS, COUNTY SURVEYOR
PAULARINO CHANNEL (F03)



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 ____ DAY OF _____, 2016.

JESOM MORENO SENIOR LAND SURVEYOR

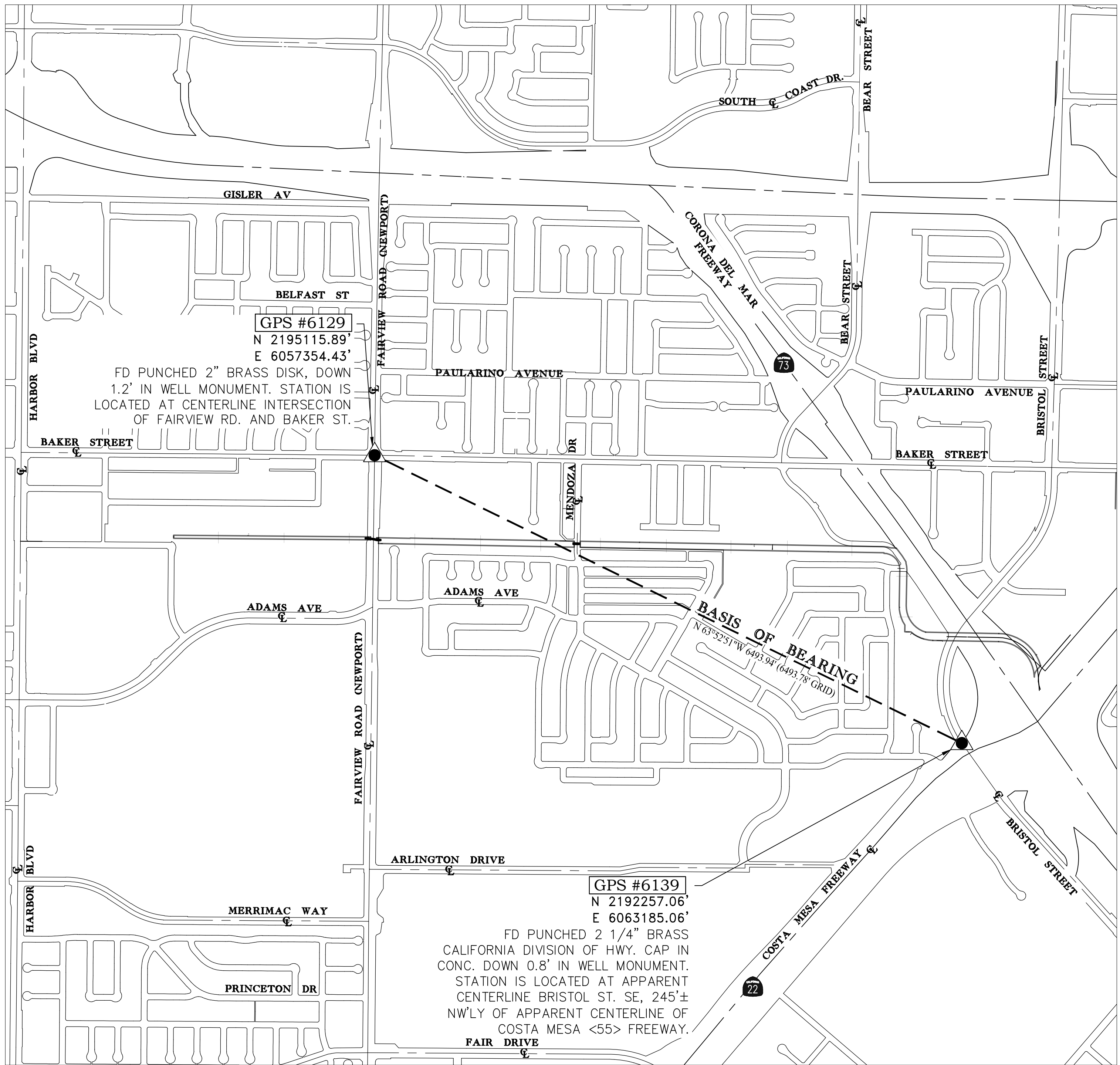
DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS ____ DAY OF _____, 2016.

ROBERT JELINEK DEPUTY COUNTY SURVEYOR

U.S. Survey
Foot

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



TOPOGRAPHIC MAPPING PROJECT

BASIS OF BEARINGS

THE BEARINGS SHOWN ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 6139 AND STATION GPS NO. 6129, BEING NORTH 63°52'51" WEST, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES ARE BASE ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE VI, 1983 NORTH AMERICAN DATUM (2007.00 EPOCH, O.C.S. GPS ADJUSTMENT).

ALL DISTANCES SHOWN ARE GROUND, UNLESS OTHERWISE NOTED. MULTIPLY A GROUND DISTANCE BY 0.99997527 TO OBTAIN A GRID DISTANCE.

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

VERTICAL DATUM

O.C.S. BM. #SA-289-77 ELEV. = 43.268' YEAR LEVELED 2010
O.C.S. BM. #1E-99-72 ELEV. = 43.323' YEAR LEVELED 2005

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

NOTES

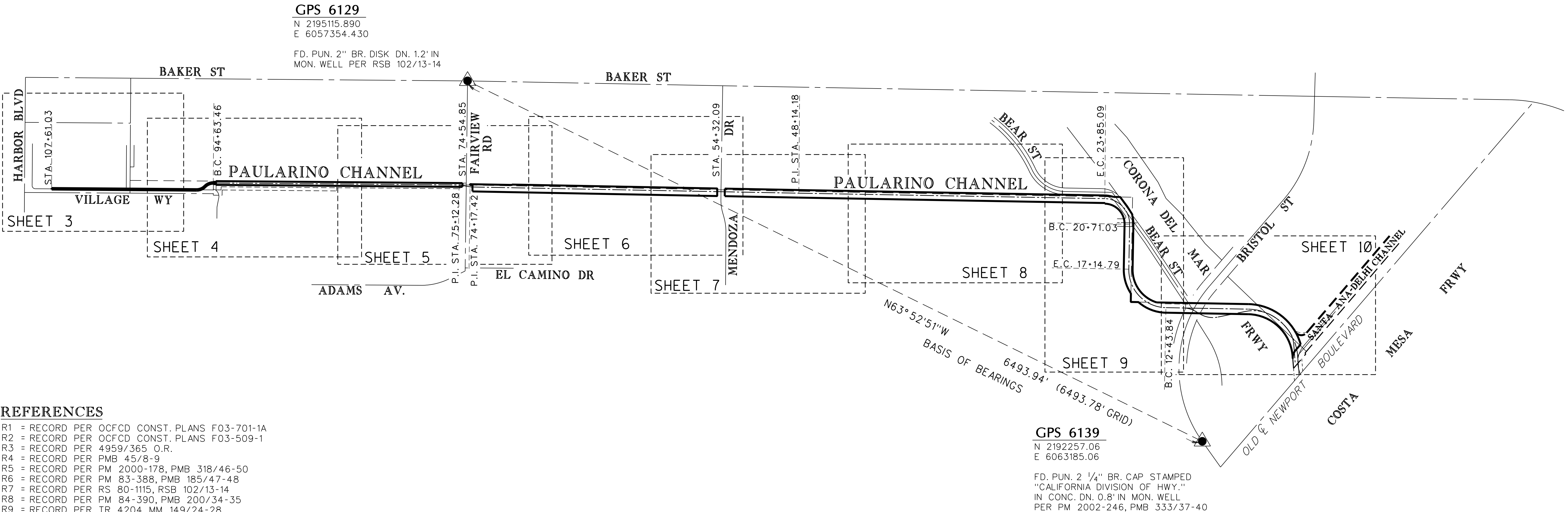
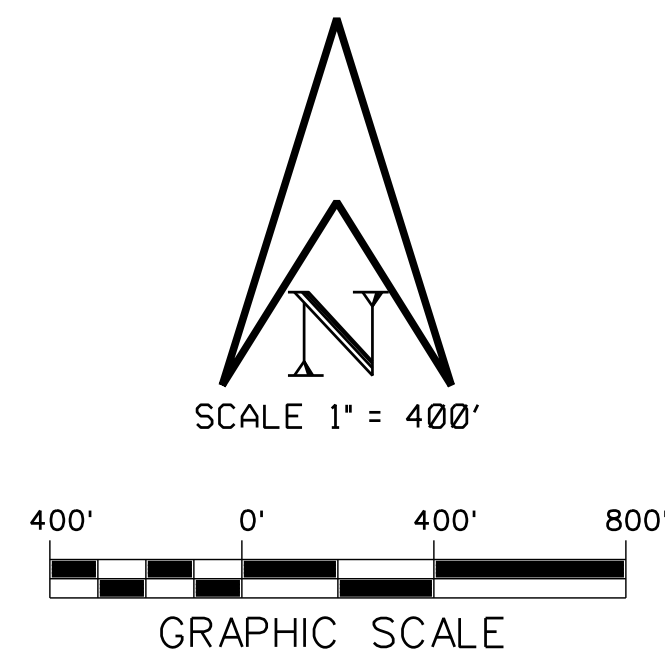
THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET #1	TITLE SHEET
SHEET #2-16	SURVEY CONTROL SCHEMATIC
SHEET #17-32	TOPOGRAPHIC MAP

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			PAULARINO CHANNEL (F03)				
			TITLE SHEET				
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM				
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY				
			DATE OF SURVEY: MARCH 2016		BY: F. BOYD & PARTY		SHEET NO. 1 of 32
			TOPOGRAPHIC MAPPING		BY: N. FIETA		
			OFFICE CHECK		BY: J. MORENO		
			FIELD CHECK		BY: F. BOYD & PARTY		
			SCALE: N.T.S.		FILE NO. 1516PW-FL0005		
MARK	DATE	ITEM	FILE: EF03789 PAULARINO CHANNEL.DWG				
REVISIONS							

SHEET INDEX MAP



REFERENCES

- R1 = RECORD PER OCFCD CONST. PLANS F03-701-1A
- R2 = RECORD PER OCFCD CONST. PLANS F03-509-1
- R3 = RECORD PER 4959/365 O.R.
- R4 = RECORD PER PMB 45/8-9
- R5 = RECORD PER PM 2000-178, PMB 318/46-50
- R6 = RECORD PER PM 83-388, PMB 185/47-48
- R7 = RECORD PER RS 80-1115, RSB 102/13-14
- R8 = RECORD PER PM 84-390, PMB 200/34-35
- R9 = RECORD PER TR 4204, MM 149/24-28
- R10 = RECORD PER TR 3922, MM 174/39-42
- R11 = RECORD PER 8435/132 O.R.
- R12 = RECORD PER TR. 4260, M.M. 157/28-33
- R13 = RECORD PER R.S. 2009-1017, R.S.B. 238/44-46
- R14 = RECORD PER TR. 4184, M.M. 146/38-40
- R15 = RECORD PER OC SURVEY ALIGNMENT/TOPO MAP SURVEY FILE NO. 1415PW-OP0004
- R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
- R17 = RECORD PER P.M. 2003-234, P.M.B. 335/21-23
- R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

BASIS OF STATIONING

THE STATIONINGS SHOWN HEREON WERE BASED FROM OCFCD DWG. NO. F03-701-1A HOLDING STATION 48+14.18 AT THE P.I. 600' EASTERLY OF MENDOZA DR. ON THE CONSTRUCTION CENTERLINE OF PAULARINO CHANNEL (F03).

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 6139 AND STATION GPS NO. 6129, BEING N63°52'51"W, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

MONUMENT NOTES

- ▲ = FOUND O.C.S. HORIZONTAL CONTROL STATION PER OCS HORIZONTAL CONTROL DATA SHEET ON FILE IN THE ORANGE COUNTY SURVEYOR'S OFFICE, GEODETIC UNIT.
- △ = LOCATION OF O.C.S. HORIZONTAL CONTROL STATION, SEARCHED FOR, NOT FOUND. HELD RECORD COORDINATE POSITION.
- = FOUND MONUMENT AS NOTED
- ☒ = SEARCHED, FOUND NOTHING

SURVEYOR'S NOTE:

THE BEARINGS AND DISTANCES SHOWN HEREON ARE TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND ARE NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.

A RECORD OF SURVEY IS HIGHLY RECOMMENDED PRIOR TO ANY FUTURE PROPERTY ACQUISITIONS.

HORIZONTAL DATUM

THE COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE VI, 1983 NORTH AMERICAN DATUM (2007.00 EPOCH, O.C.S. GPS ADJUSTMENT).

ALL DISTANCES SHOWN ARE GROUND, UNLESS OTHERWISE NOTED. MULTIPLY A GROUND DISTANCE BY 0.99997527 TO OBTAIN A GRID DISTANCE.

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

US Survey Foot

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

COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
PAULARINO CHANNEL (F03)			
SURVEY CONTROL SCHEMATIC			
FROM: HARBOR BLVD.			
TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
DATE OF SURVEY: MAY & JUNE, 2016		BY: BOYD & KREPP	
ALIGNMENT ANALYSIS		BY: RON FOGLEMAN	
OFFICE CHECK		BY:	
FIELD CHECK		BY:	
SCALE: 1" = 50'		W.D. # EF03789	FILE NO. 1516PW-FL0005
FILE: PAULARINO F03.SHA2.DGN			
MARK	DATE	ITEM	SHEET NO.
REVISIONS			2 of 32

 = FOUND O.C.S. HORIZONTAL CONTROL STATION PER OCS HORIZONTAL CONTROL DATA SHEET ON FILE IN THE ORANGE COUNTY SURVEYOR'S OFFICE, GEODETIC UNIT.
 = LOCATION OF O.C.S. HORIZONTAL CONTROL STATION, SEARCHED FOR, NOT FOUND, HELD RECORD COORDINATE POSITION.
 = FOUND MONUMENT AS NOTED
 = SEARCHED, FOUND NOTHING

R1	=	RECORD	PER	OCFCD	CONST. PLANS	F03-701-1A
R2	=	RECORD	PER	OCFCD	CONST. PLANS	F03-509-1
R3	=	RECORD	PER		4959/365	O.R.
R4	=	RECORD	PER		PMB	45/8-9
R5	=	RECORD	PER	PM	2000-178, PMB	318/46-50
R6	=	RECORD	PER	PM	83-388, PMB	185/47-48
R7	=	RECORD	PER	RS	80-1115, RSB	102/13-14
R8	=	RECORD	PER	PM	84-390, PMB	200/34-35
R9	=	RECORD	PER	TR	4204, MM	149/24-28
R10	=	RECORD	PER	TR	3922, MM	174/39-42
R11	=	RECORD	PER		8435/132	O.R.
R12	=	RECORD	PER	TR	4260, M.M.	157/28-33
R13	=	RECORD	PER	R.S.	2009-1017, R.S.B.	238/44-46
R14	=	RECORD	PER	TR	4184, M.M.	146/38-40
R15	=	RECORD	PER	OC	SURVEY ALIGNMENT/ TOPO	
		MAP SURVEY		FILE	NO. 1415PW-OP0004	
R16	=	RECORD	PER	R.S.	2010-1107, R.S.B.	247/8-13
R17	=	RECORD	PER	P.M.	2003-234, P.M.B.	335/21-23
R18	=	RECORD	PER	P.M.	79-393, P.M.B.	156/16-17



			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
			PAULARINO CHANNEL (F03)			
			SURVEY CONTROL SCHEMATIC			
			FROM: HARBOR BLVD. TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP	SHEET NO. 3 of 32	
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN		
			OFFICE CHECK	BY:		
			FIELD CHECK	BY:		
MARK	DATE	ITEM				
		REVISIONS	SCALE: 1" = 50'	W.D. # EF03789	FILE NO. 1516PW-FL0005	
			FILE: PC_F03_SH2.DGN			



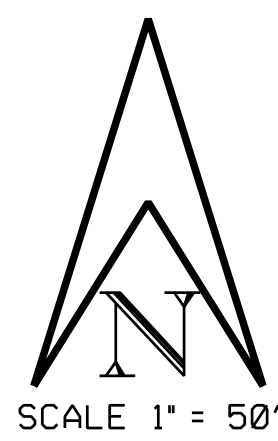
PINECREEK DR

SCALE: 1" = 50' W.O.# EF03789 FILE NO. 1516PW-FL00

WES

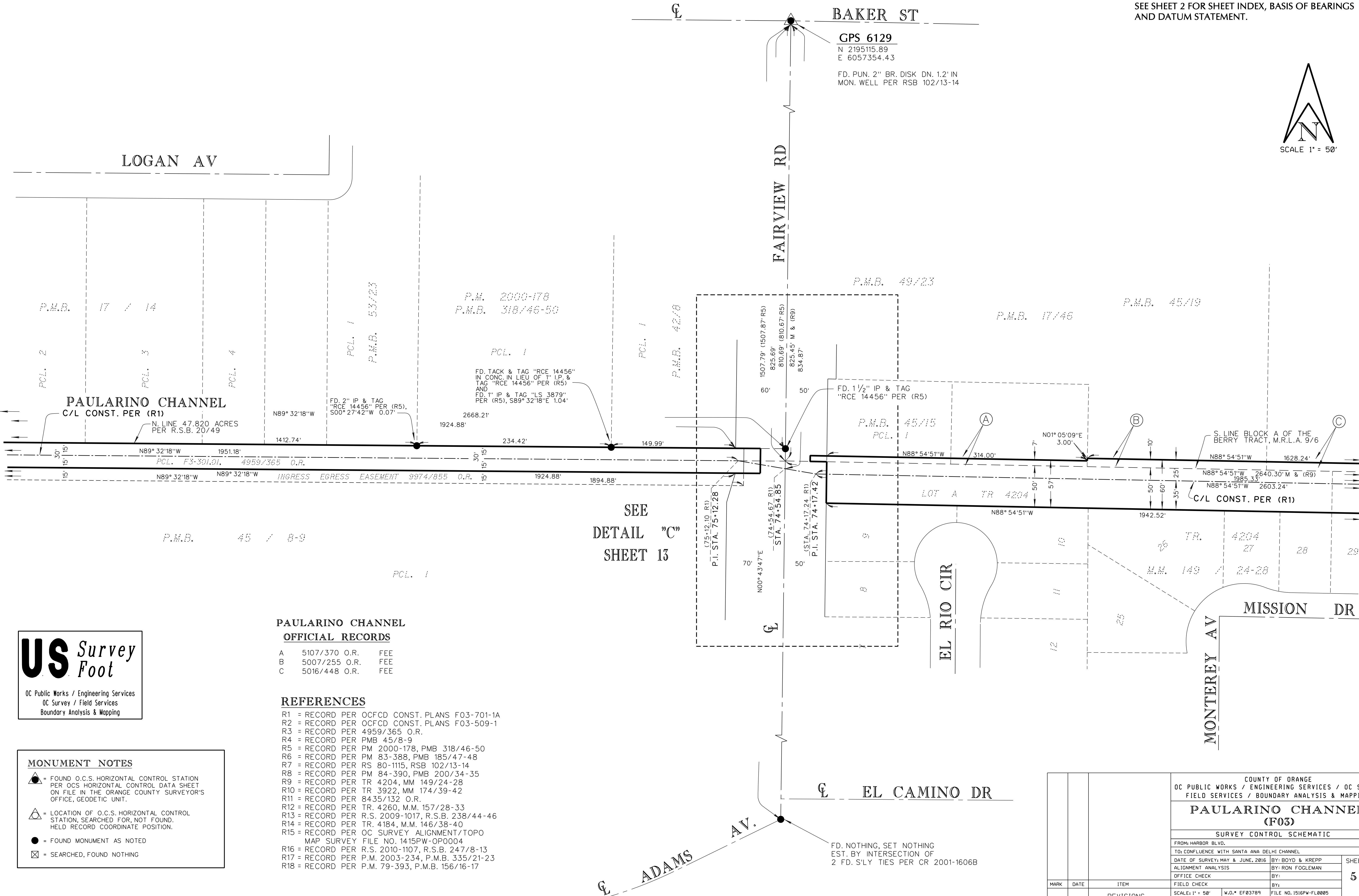
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R2	=	RECORD	PER	OCFCD	CONST.	PLANS	F03-509-1
R3	=	RECORD	PER	4959/365	O.R.		
R4	=	RECORD	PER	PMB	45/8-9		
R5	=	RECORD	PER	PM	2000-178,	PMB	318/46-50
R6	=	RECORD	PER	PM	83-388,	PMB	185/47-48
R7	=	RECORD	PER	RS	80-115,	RSB	102/13-14
R8	=	RECORD	PER	PM	484-390,	PMB	200/34-35
R9	=	RECORD	PER	TR	4204,	MM	149/24-28
R10	=	RECORD	PER	TR	3922,	MM	174/39-42
R11	=	RECORD	PER	8435/132	O.R.		
R12	=	RECORD	PER	TR	4260,	M.M.	157/28-33
R13	=	RECORD	PER	R.S.	2009-1017,	R.S.B.	238/44-46
R14	=	RECORD	PER	TR	4184,	M.M.	146/38-40
R15	=	RECORD	PER	OC	SURVEY	ALIGNMENT/TOPO	
				MAP	SURVEY	FILE	NO. 1415PW-0P0004
R16	=	RECORD	PER	R.S.	2010-1107,	R.S.B.	247/8-13
R17	=	RECORD	PER	P.M.	2003-234,	P.M.B.	335/21-23
R18	=	RECORD	PER	P.M.	79-393,	P.M.B.	156/16-17

SEE SHEET 2 FOR SHEET INDEX, BASIS OF BEARINGS
AND DATUM STATEMENT.



GPS 6129
N 2195115.89
E 6057354.43

FD. PUN. 2" BR. DISK DN. 1.2" IN
MON. WELL PER RSB 102/13-14



SEE
DETAIL "C"
SHEET 13

PAULARINO CHANNEL
OFFICIAL RECORDS

A	5107/370 O.R.	FEE
B	5007/255 O.R.	FEE
C	5016/448 O.R.	FEE

REFERENCES

- R1 = RECORD PER OCFCD CONST. PLANS F03-701-1A
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MAP SURVEY FILE NO. 1415PW-OP0004
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R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

US Survey
Foot

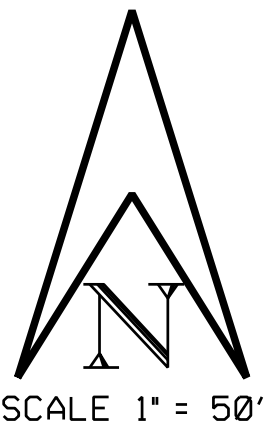
OC Public Works / Engineering Services
OC Survey / Field Services
Boundary Analysis & Mapping

MONUMENT NOTES

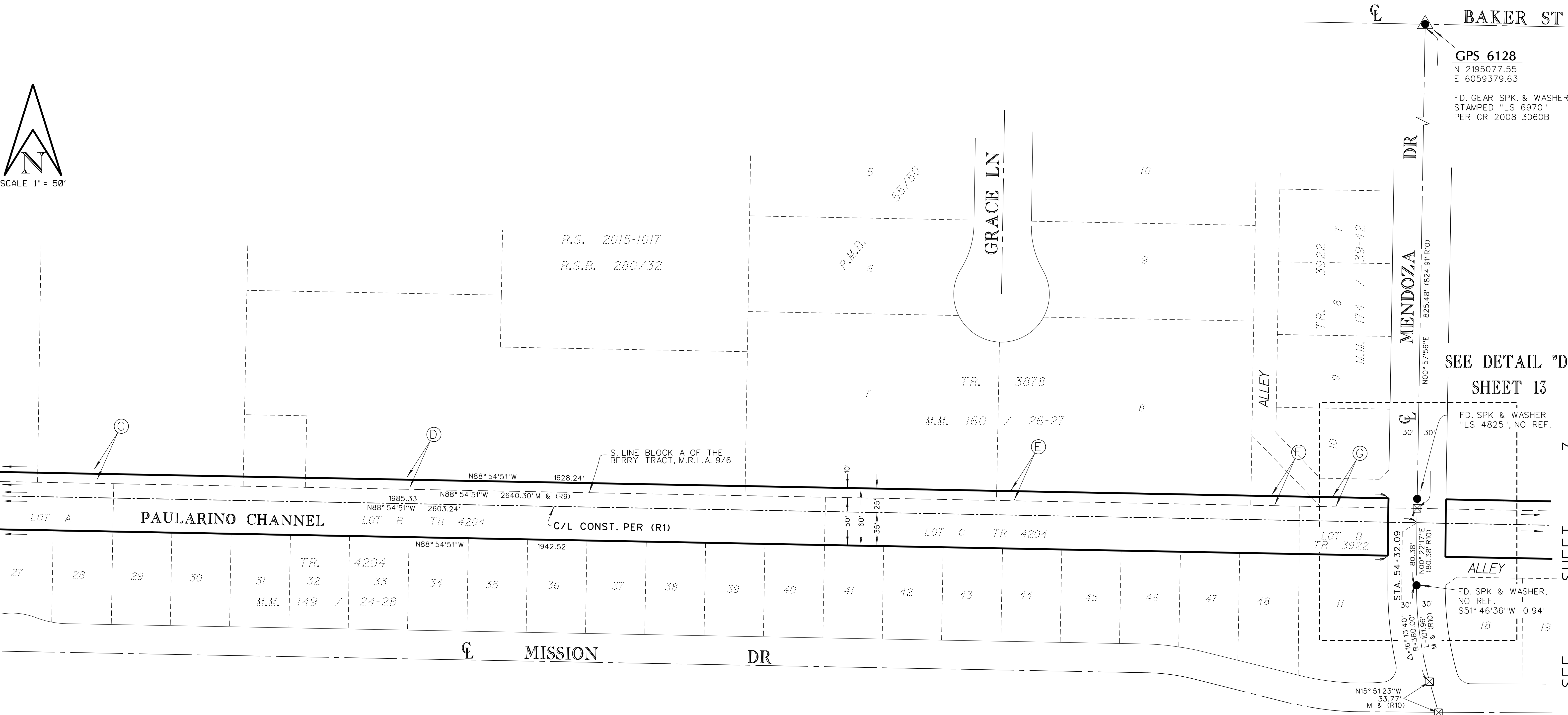
- FOUND O.C.S. HORIZONTAL CONTROL STATION
PER OCS HORIZONTAL CONTROL DATA SHEET
ON FILE IN THE ORANGE COUNTY SURVEYOR'S
OFFICE, GEODETIC UNIT.
- LOCATION OF O.C.S. HORIZONTAL CONTROL
STATION, SEARCHED FOR, NOT FOUND.
HELD RECORD COORDINATE POSITION.
- FOUND MONUMENT AS NOTED
- SEARCHED, FOUND NOTHING

COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
PAULARINO CHANNEL (F03)			
SURVEY CONTROL SCHEMATIC			
FROM: HARBOR BLVD.			
TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
DATE OF SURVEY: MAY & JUNE, 2016		BY: BOYD & KREPP	
ALIGNMENT ANALYSIS		BY: RON FOLEMAN	
OFFICE CHECK		BY:	
FIELD CHECK		BY:	
SCALE: 1" = 50'		W.D. EF03789	
FILE: FC-F03-SHS.00N		FILE NO. 1516PW-FL0085	
MARK	DATE	ITEM	SHEET NO.
REVISIONS			5 of 32

SEE SHEET 2 FOR SHEET INDEX, BASIS OF BEARINGS
AND DATUM STATEMENT.



SEE SHEET 5



PAULARINO CHANNEL

OFFICIAL RECORDS

C	5016/448 O.R.	FEE
D	5381/209 O.R.	FEE
E	5125/88 O.R.	FEE
F	3945/544 O.R.	EASEMENT
G	LOT C, TR. 3922	FEE

REFERENCES

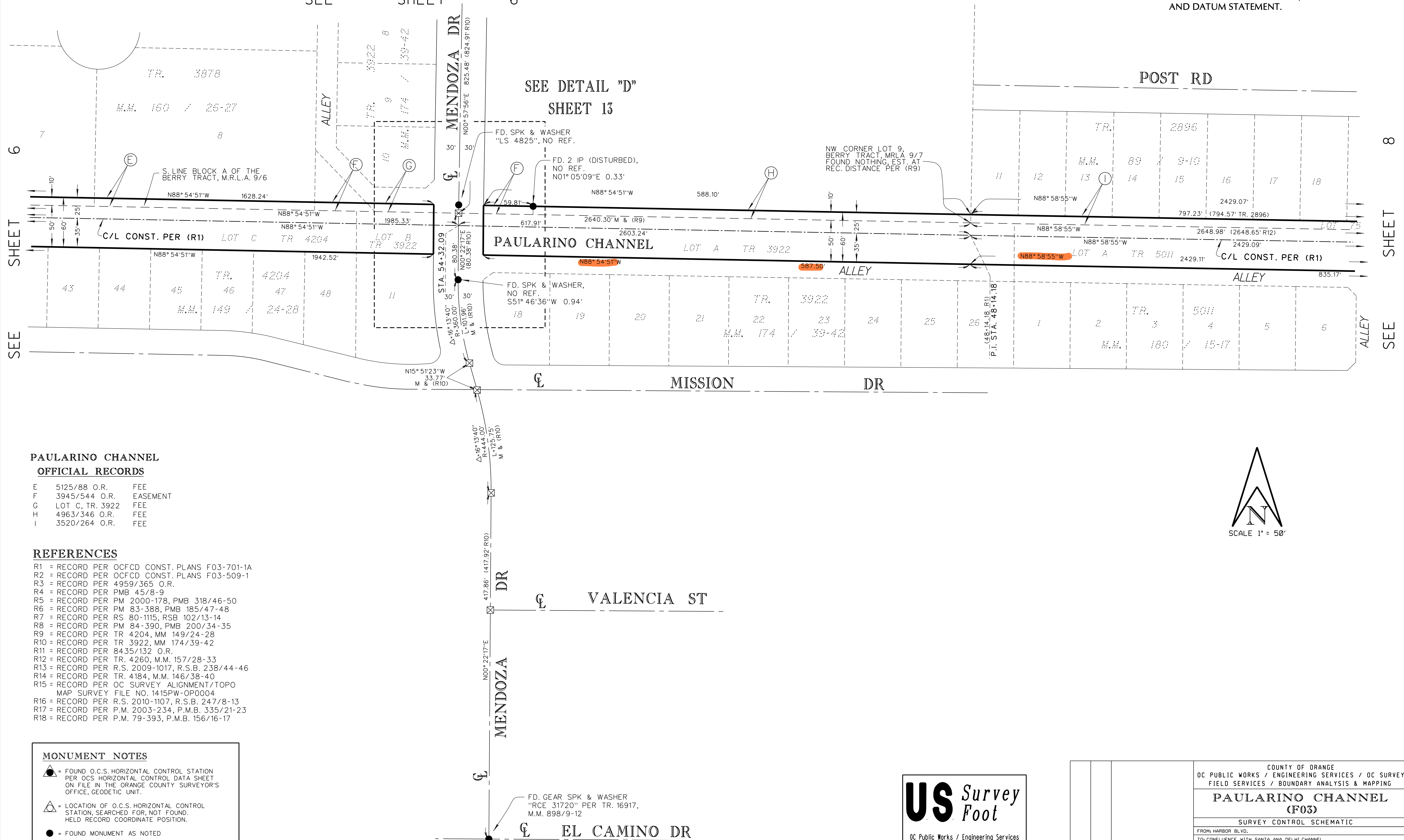
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R6 = RECORD PER PM 83-388, PMB 185/47-48
R7 = RECORD PER RS 80-1115, RSB 102/13-14
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R15 = RECORD PER OC SURVEY ALIGNMENT/TOPO
MAP SURVEY FILE NO. 1415PW-OP0004
R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
R17 = RECORD PER P.M. 2003-234, P.M.B. 335/21-23
R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

MONUMENT NOTES

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			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			SURVEY CONTROL SCHEMATIC	
			FROM: HARBOR BLVD.	
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL	
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN
			OFFICE CHECK	BY:
			FIELD CHECK	BY:
			SCALE: 1" = 50'	W.O.# EF03789
			FILE: PC-F03-SH6.DGN	
MAR	DATE	ITEM	SHEET NO.	
		REVISIONS	6 of 32	

**PAULARINO CHANNEL
OFFICIAL RECORDS**

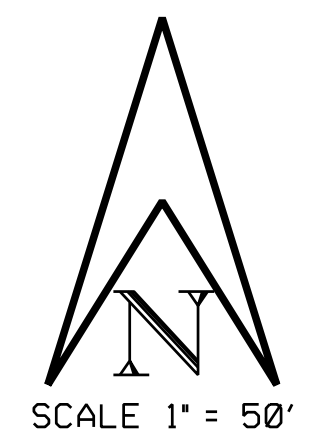
E	5125/88 O.R.	FEE
F	3945/544 O.R.	EASEMENT
G	LOT C, TR. 3922	FEE
H	4963/346 O.R.	FEE
I	3520/264 O.R.	FEE

REFERENCES

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MAP SURVEY FILE NO. 1415PW-OP0004
R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
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R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

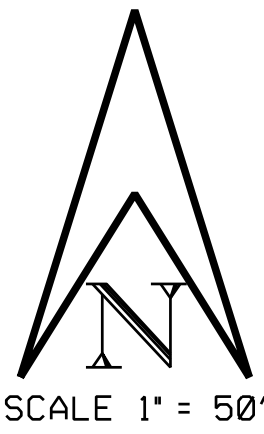
MONUMENT NOTES

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STATION, SEARCHED FOR, NOT FOUND.
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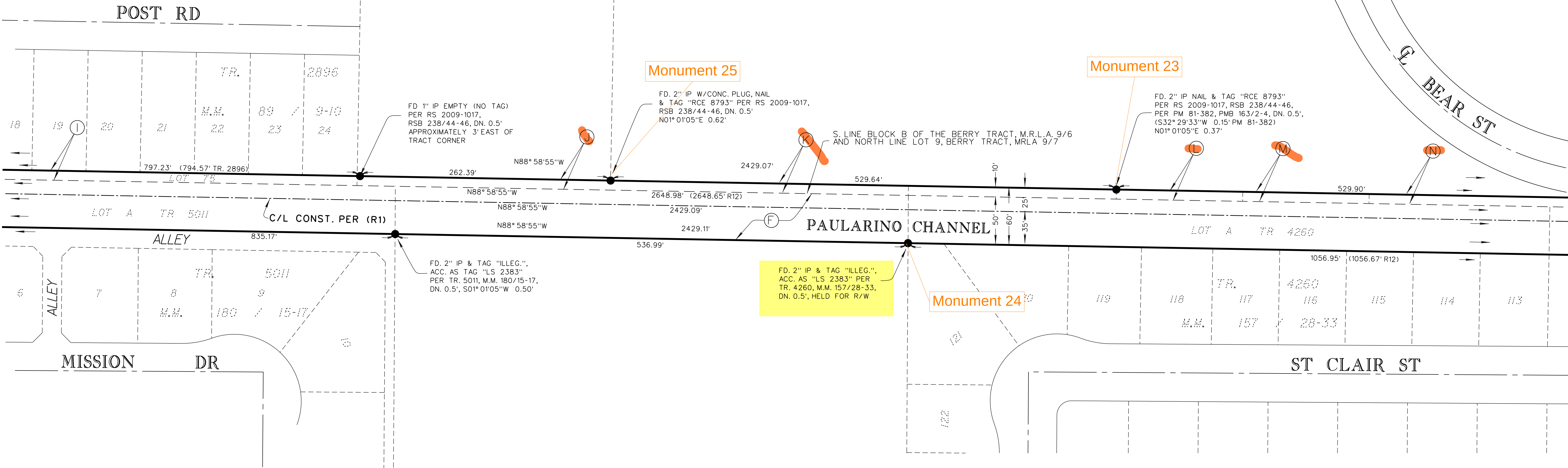
			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING		
			PAULARINO CHANNEL (F03)		
			SURVEY CONTROL SCHEMATIC		
			FROM: HARBOR BLVD.		
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL		
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP	SHEET NO. 7 of 32
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN	
			OFFICE CHECK	BY:	
			FIELD CHECK	BY:	
			SCALE: 1" = 50'	W.D.: EF03789	
MARK	DATE	ITEM	FILE: PC-F03-SH7.DGN		
		REVISIONS			

SEE SHEET 2 FOR SHEET INDEX, BASIS OF BEARINGS AND DATUM STATEMENT.



SEE SHEET 7

SEE SHEET 9



PAULARINO CHANNEL
OFFICIAL RECORDS

F	3945/544	O.R.	EASEMENT
I	3520/264	O.R.	FEE
J	5199/406	O.R.	FEE
K	5411/53	O.R.	FEE
L	4963/349	O.R.	FEE
M	4963/352	O.R.	FEE
N	4963/358	O.R.	FEE

REFERENCES

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R12 = RECORD PER TR. 4260, M.M. 157/28-33
R13 = RECORD PER R.S. 2009-1017, R.S.B. 238/44-46
R14 = RECORD PER TR. 4184, M.M. 146/38-40
R15 = RECORD PER OC SURVEY ALIGNMENT/TOPO
MAP SURVEY FILE NO. 1415PW-OP0004
R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
R17 = RECORD PER P.M. 2003-234, P.M.B. 335/21-23
R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

MONUMENT NOTES

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- ☒ = SEARCHED, FOUND NOTHING



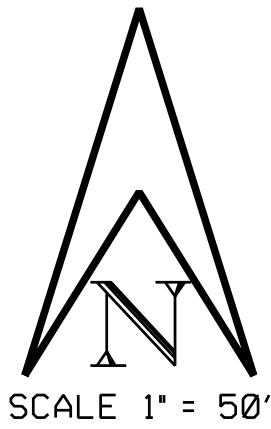
			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			SURVEY CONTROL SCHEMATIC	
			FROM: HARBOR BLVD.	
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL	
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN
			OFFICE CHECK	BY:
			FIELD CHECK	BY:
			SCALE: 1" = 50'	W.D.* EF03789
			FILE: FC-F03-SH8.DGN	FILE NO. 1516PW-FL0085
MARK	DATE	ITEM		
			REVISIONS	

REFERENCES

- R1 = RECORD PER OCFCD CONST. PLANS F03-701-1A
R2 = RECORD PER OCFCD CONST. PLANS F03-509-1
R3 = RECORD PER 4959/365 O.R.
R4 = RECORD PER PMB 45/8-9
R5 = RECORD PER PM 2000-178, PMB 318/46-50
R6 = RECORD PER PM 83-388, PMB 185/47-48
R7 = RECORD PER RS 80-1115, RSB 102/13-14
R8 = RECORD PER PM 84-390, PMB 200/34-35
R9 = RECORD PER TR 4204, MM 149/24-28
R10 = RECORD PER TR 3922, MM 174/39-42
R11 = RECORD PER 8435/132 O.R.
R12 = RECORD PER TR. 4260, M.M. 157/28-33
R13 = RECORD PER R.S. 2009-1017, R.S.B. 238/44-46
R14 = RECORD PER TR. 4184, M.M. 146/38-40
R15 = RECORD PER OC SURVEY ALIGNMENT/TOPO
MAP SURVEY FILE NO. 1415PW-OP0004
R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
R17 = RECORD PER P.M. 2003-234, P.M.B. 335/21-23
R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

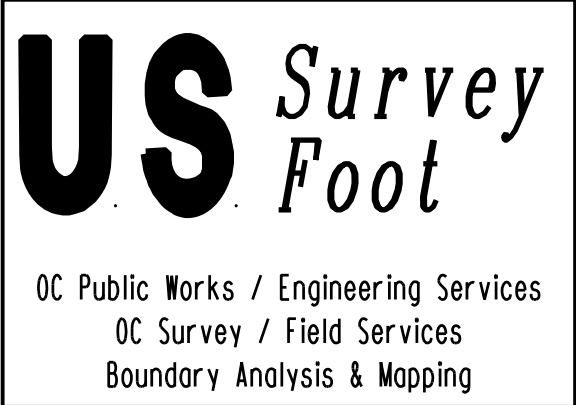
MONUMENT NOTES

- △ = FOUND O.C.S. HORIZONTAL CONTROL STATION
PER OCS HORIZONTAL CONTROL DATA SHEET
ON FILE IN THE ORANGE COUNTY SURVEYOR'S
OFFICE, GEODETIC UNIT.
△ = LOCATION OF O.C.S. HORIZONTAL CONTROL
STATION, SEARCHED FOR, NOT FOUND.
HELD RECORD COORDINATE POSITION.
● = FOUND MONUMENT AS NOTED
☒ = SEARCHED, FOUND NOTHING



COURSE TABLE

- ④ N33° 31'11"W 12.46'
⑤ N01° 03'22"E 29.74'
⑥ N01° 03'22"E 33.67'
⑦ N25° 32'06"E 39.63'
⑧ Δ = 09° 34'18" R=440.00' L=73.51'
⑨ Δ = 17° 16'35" R=440.00' L=132.67' (L=132.76' R18)
⑩ Δ = 29° 17'24" R=440.00' L=224.93' (L=224.95' R17)
⑪ Δ = 02° 42'01" R=440.00' L=20.74'
⑫ Δ = 14° 08'56" R=440.00' L=108.66'
⑬ N40° 37'48"E 63.16'
⑭ Δ = 45° 00'00" R=90.00' L=70.69'
⑮ N04° 22'12"W 19.85'
⑯ Δ = 30° 14'00" R=200.00' L=105.53' M & (R2)
⑰ N58° 43'15"W 34.87' (34.93' R2)
⑱ Δ = 42° 48'41" R=200.00' L=149.44' M & (R2)
⑲ N78° 28'04"E 225.00' M & (R2)
⑳ Δ = 39° 42'34" R=300.00' L=207.92' M & (R2)
㉑ Δ = 29° 01'34" R=400.00' L=202.60' M & (R2)
㉒ Δ = 28° 28'01" R=205.00' L=101.85' M & (R2)
㉓ Δ = 109° 15'15" R=55.00' L=104.88' (104.90' R18)



COUNTY OF ORANGE			
OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY			
FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
PAULARINO CHANNEL (F03)			
SURVEY CONTROL SCHEMATIC			
FROM: HARBOR BLVD.			
TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP	SHEET NO.	
ALIGNMENT ANALYSIS	BY: RON FOGLEMAN	10	
OFFICE CHECK	BY:	of	
FIELD CHECK	BY:	32	
SCALE: 1" = 50'	W.O.* EF03789	FILE NO. 1516PW-FL0005	
FILE: PC-F03-SH10.DGN			

MARK	DATE	ITEM
REVISIONS		

SEE
DETAIL
SHEET 16

SEE REALIGNED CONSTRUCTION CENTERLINE DETAIL, SHEET 11

SEE SHEET 16

SEE SHEET 9

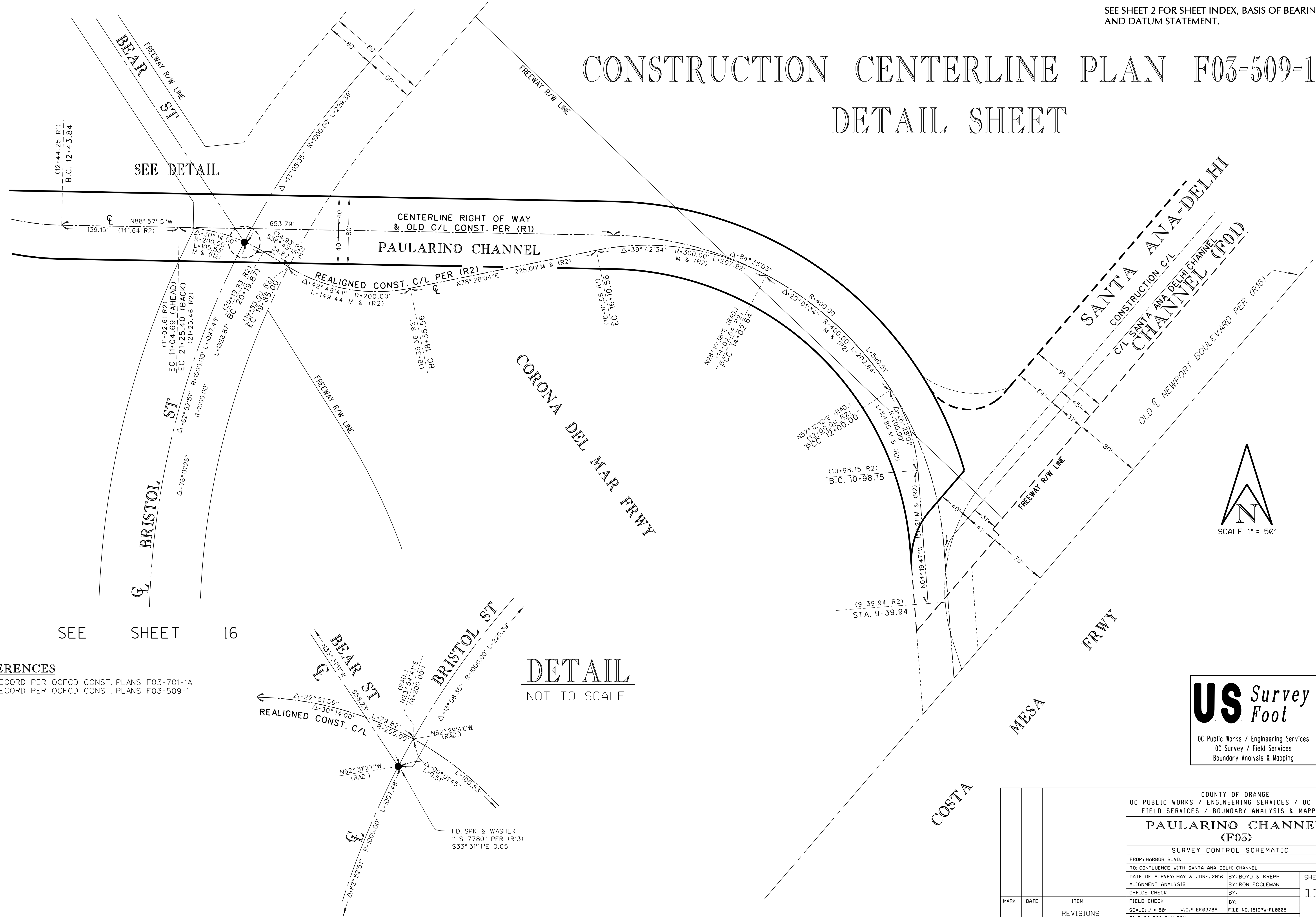
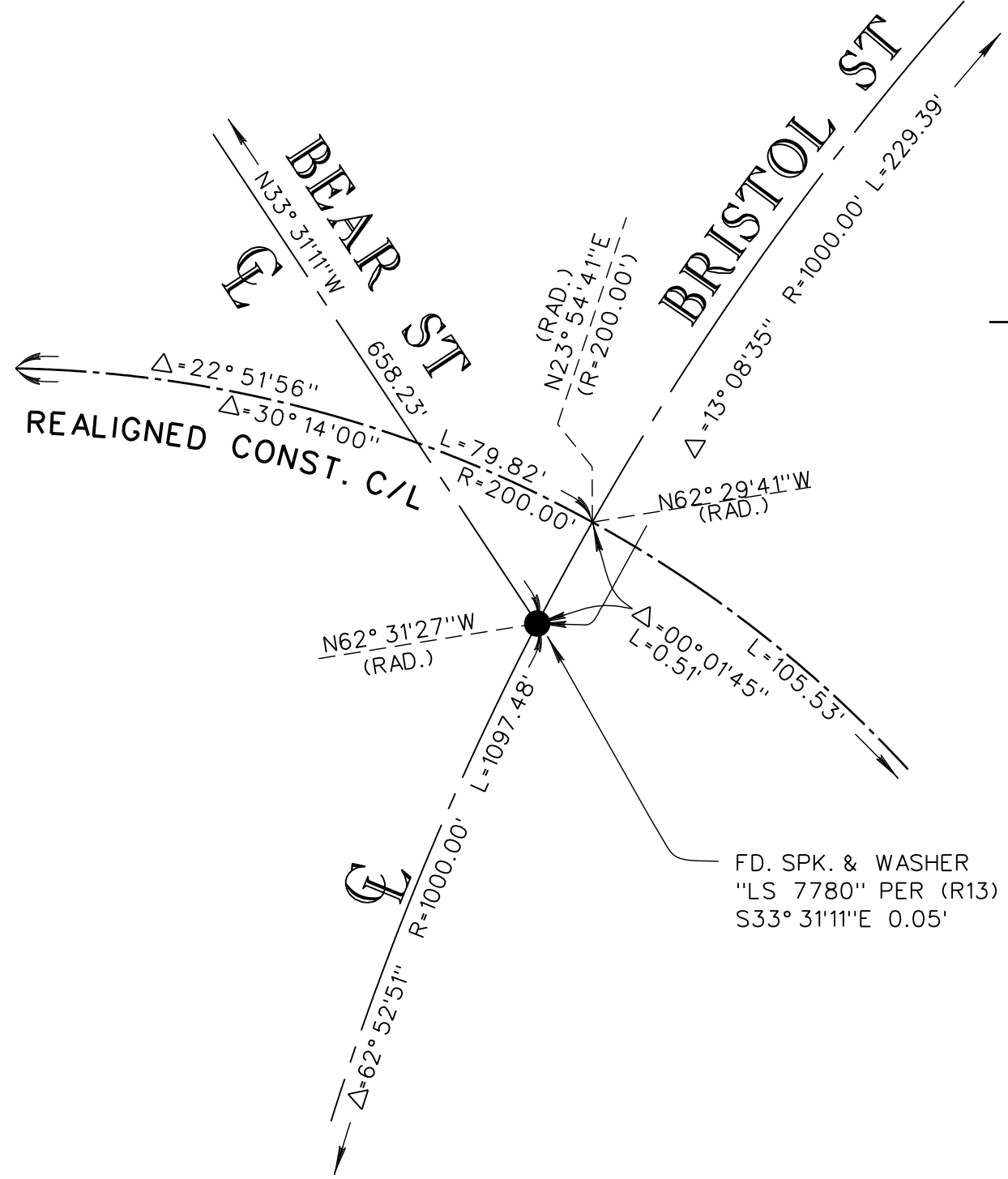
CONSTRUCTION CENTERLINE PLAN F03-509-1

DETAIL SHEET

SEE SHEET 9

SEE SHEET 16

REFERENCES
R1 = RECORD PER OCFCO CONST. PLANS F03-701-1A
R2 = RECORD PER OCFCO CONST. PLANS F03-509-1

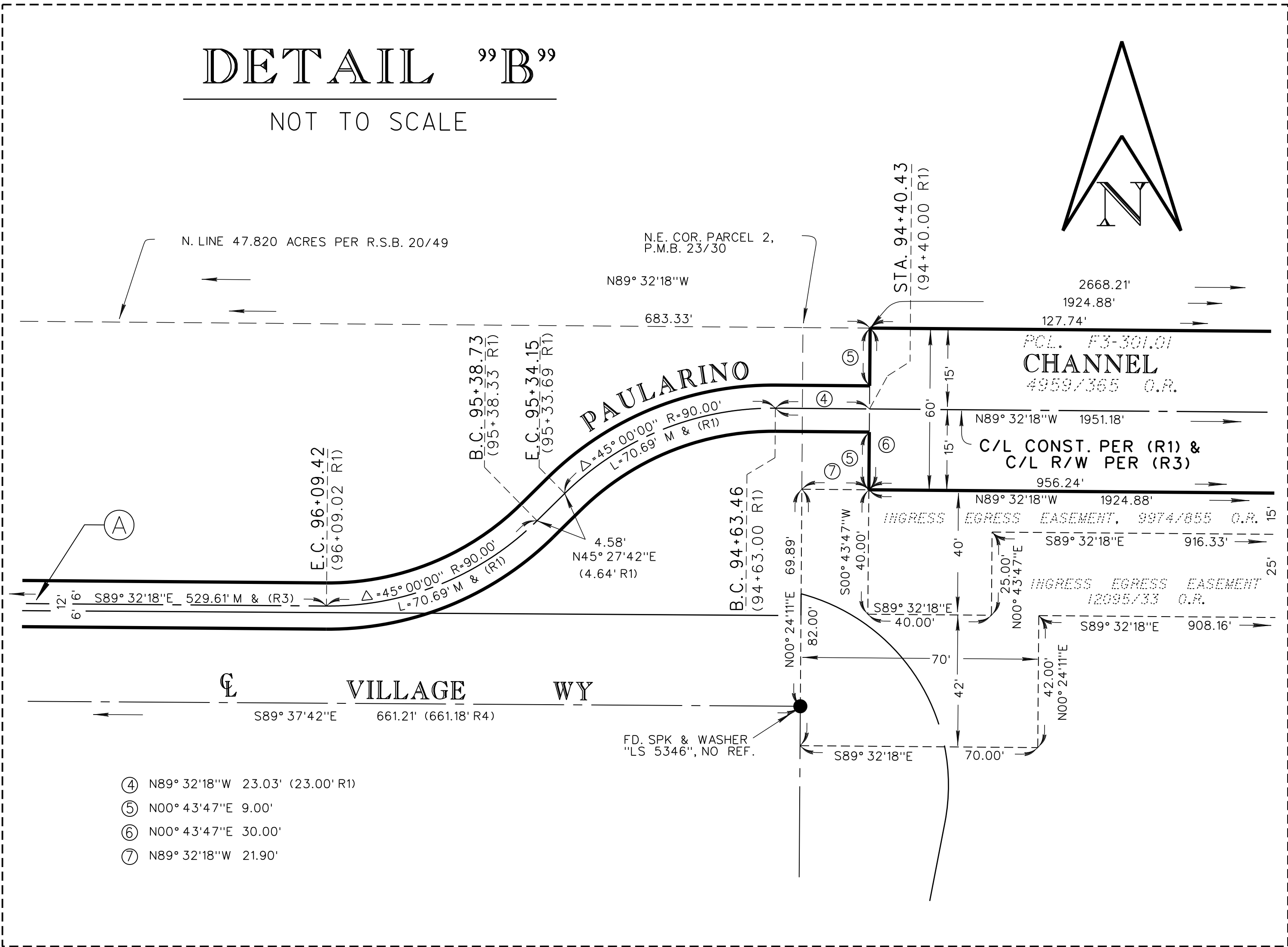
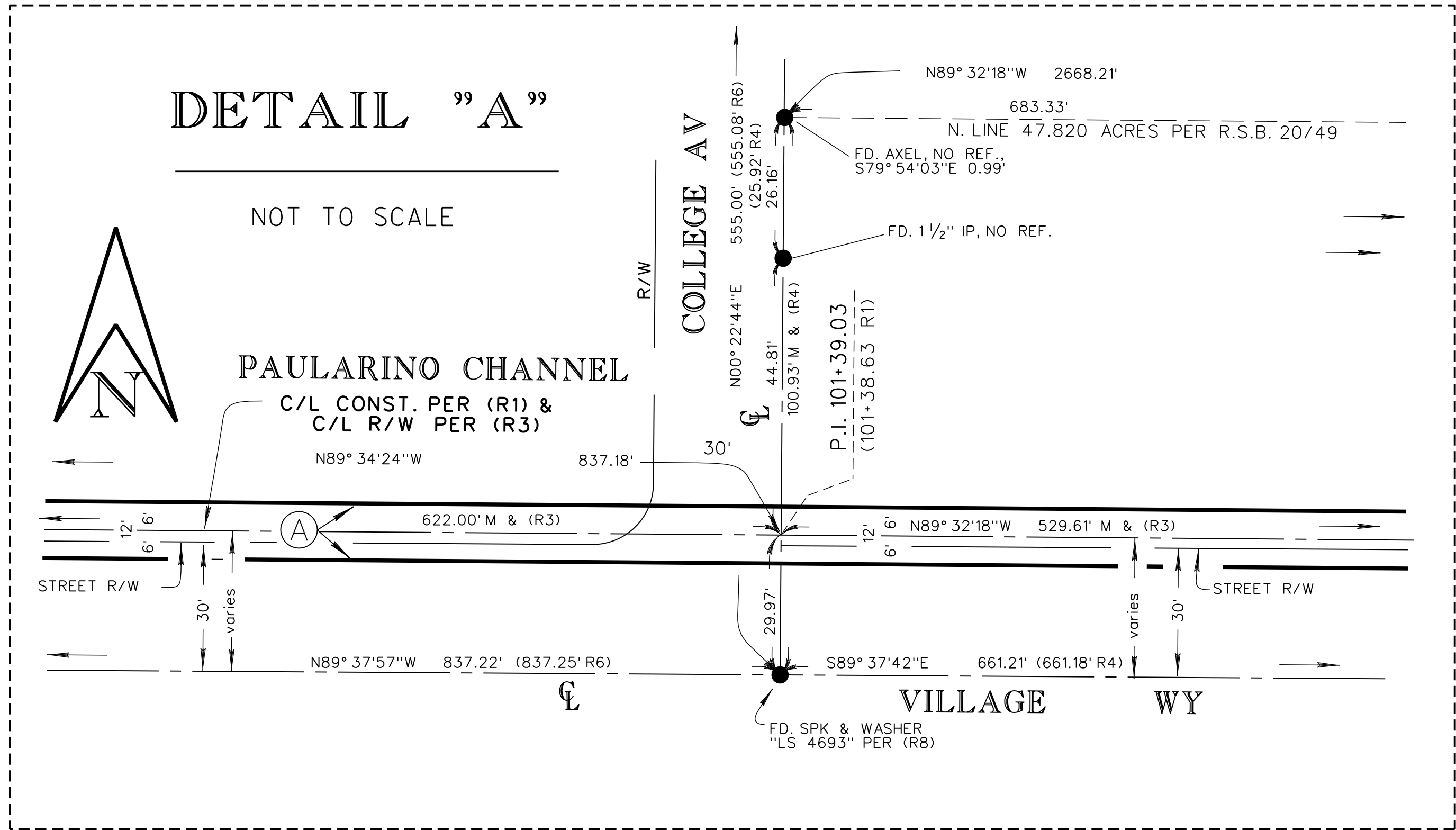


US Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			SURVEY CONTROL SCHEMATIC	
			FROM: HARBOR BLVD.	
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL	
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN
			OFFICE CHECK	BY:
			FIELD CHECK	BY:
			SCALE: 1" = 50'	W.D. EF03789 FILE NO. 1516PW-FL0085
			FILE: FC-F03-SH1.DGN	
MARK	DATE	ITEM		
			REVISIONS	

SEE SHEET 2 FOR SHEET INDEX, BASIS OF BEARINGS
AND DATUM STATEMENT.



US Survey
Foot

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

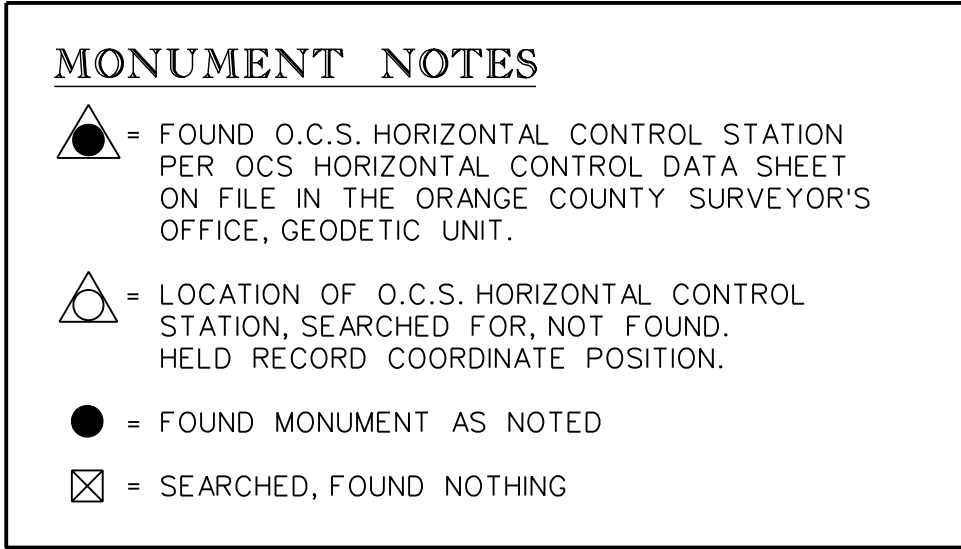
MONUMENT NOTES

- FOUND O.C.S. HORIZONTAL CONTROL STATION PER OCS HORIZONTAL CONTROL DATA SHEET ON FILE IN THE ORANGE COUNTY SURVEYOR'S OFFICE, GEODETIC UNIT.
- LOCATION OF O.C.S. HORIZONTAL CONTROL STATION, SEARCHED FOR, NOT FOUND. HELD RECORD COORDINATE POSITION.
- FOUND MONUMENT AS NOTED
- SEARCHED, FOUND NOTHING

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- R6 = RECORD PER PM 83-388, PMB 185/47-48
- R7 = RECORD PER RS 80-1115, RSB 102/13-14
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- R11 = RECORD PER 8435/132 O.R.
- R12 = RECORD PER TR. 4260, M.M. 157/28-33
- R13 = RECORD PER R.S. 2009-1017, R.S.B. 238/44-46
- R14 = RECORD PER TR. 4184, M.M. 146/38-40
- R15 = RECORD PER OC SURVEY ALIGNMENT/TOPO MAP SURVEY FILE NO. 1415PW-OP0004
- R16 = RECORD PER R.S. 2010-1107, R.S.B. 247/8-13
- R17 = RECORD PER P.M. 2003-234, P.M.B. 335/21-23
- R18 = RECORD PER P.M. 79-393, P.M.B. 156/16-17

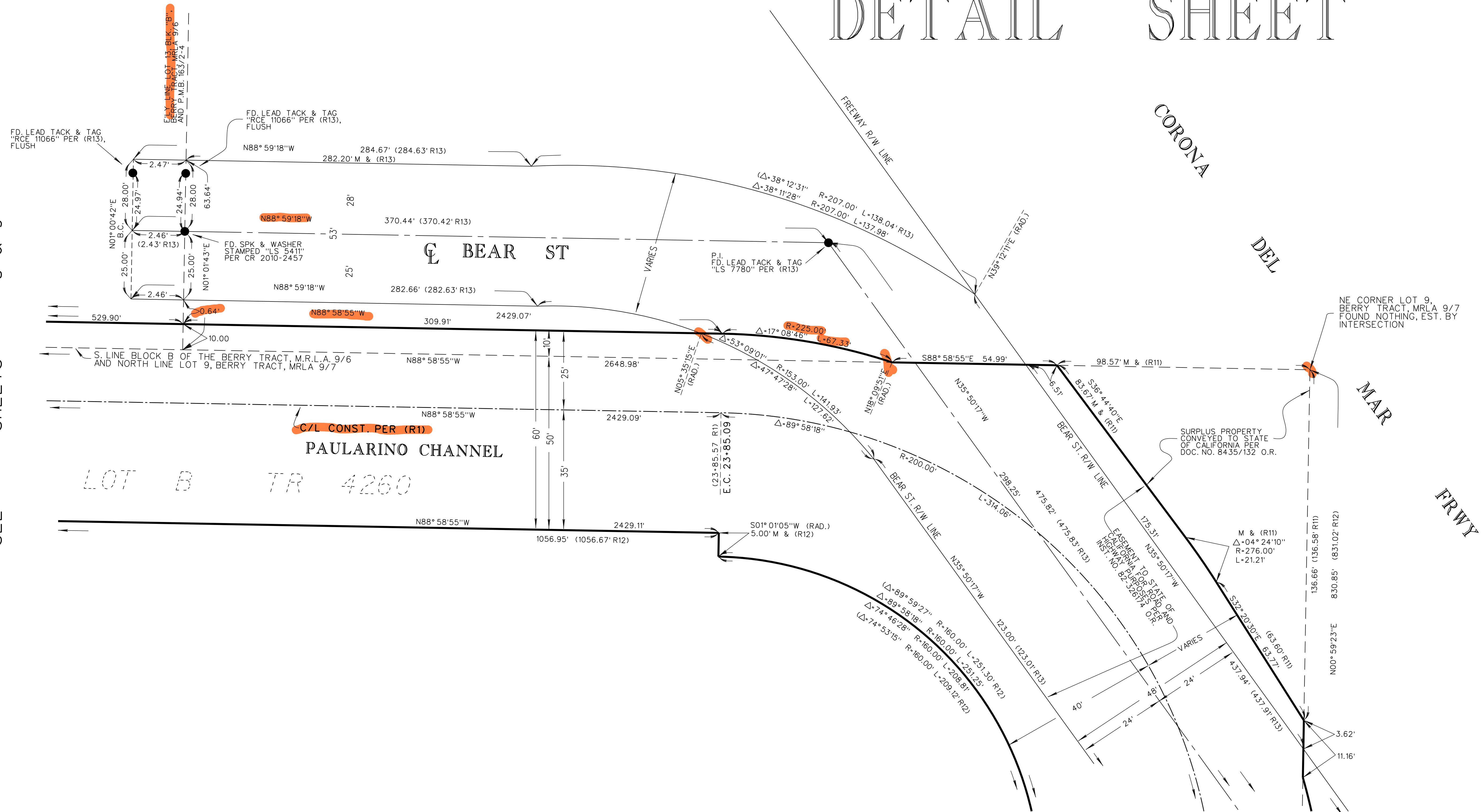
COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
PAULARINO CHANNEL (F03)			
SURVEY CONTROL SCHEMATIC			
FROM: HARBOR BLVD.			
TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
DATE OF SURVEY: MAY & JUNE, 2016		BY: BOYD & KREPP	
ALIGNMENT ANALYSIS		BY: RON FOLEMAN	
OFFICE CHECK		BY:	
FIELD CHECK		BY:	
SCALE: 1" = 50'		W.D. EF03789	
FILE: FC-F03-SH02.DGN		FILE NO. 1516PW-FL0005	
MARK	DATE	ITEM	
REVISIONS			

[illegible][illegible]

R1	=	RECORD	PER	OCFCD	CONST.	PLANS	F03-701-1A
R2	=	RECORD	PER	OCFCD	CONST.	PLANS	F03-509-1
R3	=	RECORD	PER	4959/365	O.R.		
R4	=	RECORD	PER	PMB	45/8-9		
R5	=	RECORD	PER	PM	2000-178,	PMB	318/46-50
R6	=	RECORD	PER	PM	83-388,	PMB	185/47-48
R7	=	RECORD	PER	RS	80-1115,	RSB	102/13-14
R8	=	RECORD	PER	PM	84-390,	PMB	200/34-35
R9	=	RECORD	PER	TR	4204,	MM	149/24-28
R10	=	RECORD	PER	TR	3922,	MM	174/39-42
R11	=	RECORD	PER		8435/132	O.R.	
R12	=	RECORD	PER	TR	4260,	M.M.	157/28-33
R13	=	RECORD	PER	R.S.	2009-1017,	R.S.B.	238/44-46
R14	=	RECORD	PER	TR	4184,	M.M.	146/38-40
R15	=	RECORD	PER	OC	SURVEY	ALIGNMENT/TOPO	
				MAP	SURVEY	FILE	NO. 1415PW-OP0004
R16	=	RECORD	PER	R.S.	2010-1107,	R.S.B.	247/8-13
R17	=	RECORD	PER	P.M.	2003-234,	P.M.B.	335/21-23
R18	=	RECORD	PER	P.M.	79-393,	P.M.B.	156/16-17

			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
			PAULARINO CHANNEL (F03)			
			SURVEY CONTROL SCHEMATIC			
			FROM: HARBOR BLVD.			
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
			DATE OF SURVEY: MAY & JUNE, 2016	BY: BOYD & KREPP	SHEET NO. 13 of 32	
			ALIGNMENT ANALYSIS	BY: RON FOGLEMAN		
			OFFICE CHECK	BY:		
			FIELD CHECK	BY:		
MARK	DATE	ITEM	SCALE: 1" = 50'	W.O.* EF03789	FILE NO. 1516PW-FL0005	
		REVISIONS	FILE: PG_F03_SJ13.DGN			

SEE SHEET 2 FOR SHEET INDEX, BASIS OF BEARINGS
AND DATUM STATEMENT.



R1	=	RECORD	PER	OCFCD	CONST. PLANS	F03-701-1A
R2	=	RECORD	PER	OCFCD	CONST. PLANS	F03-509-1
R3	=	RECORD	PER	4959/365	O.R.	
R4	=	RECORD	PER	PMB	45/8-9	
R5	=	RECORD	PER	PM	2000-178, PMB	318/46-50
R6	=	RECORD	PER	PM	83-388, PMB	185/47-48
R7	=	RECORD	PER	RS	80-1115, RS	102/13-14
R8	=	RECORD	PER	PM	84-390, PMB	200/34-35
R9	=	RECORD	PER	TR	4204, MM	149/24-28
R10	=	RECORD	PER	TR	3922, MM	174/39-42
R11	=	RECORD	PER		8435/132	O.R.
R12	=	RECORD	PER	TR	4260, M.M.	157/28-33
R13	=	RECORD	PER	R.S.	2009-1017, R.S.B.	238/44-46
R14	=	RECORD	PER	TR	4184, M.M.	146/38-40
R15	=	RECORD	PER	OC	SURVEY ALIGNMENT/TOPO	
		MAP SURVEY		FILE	NO. 1415P-OP0004	
R16	=	RECORD	PER	R.S.	2010-1017, R.S.B.	247/8-13
R17	=	RECORD	PER	P.M.	2003-234, P.M.B.	335/21-23
R18	=	RECORD	PER	P.M.	79-393, P.M.B.	156/16-17

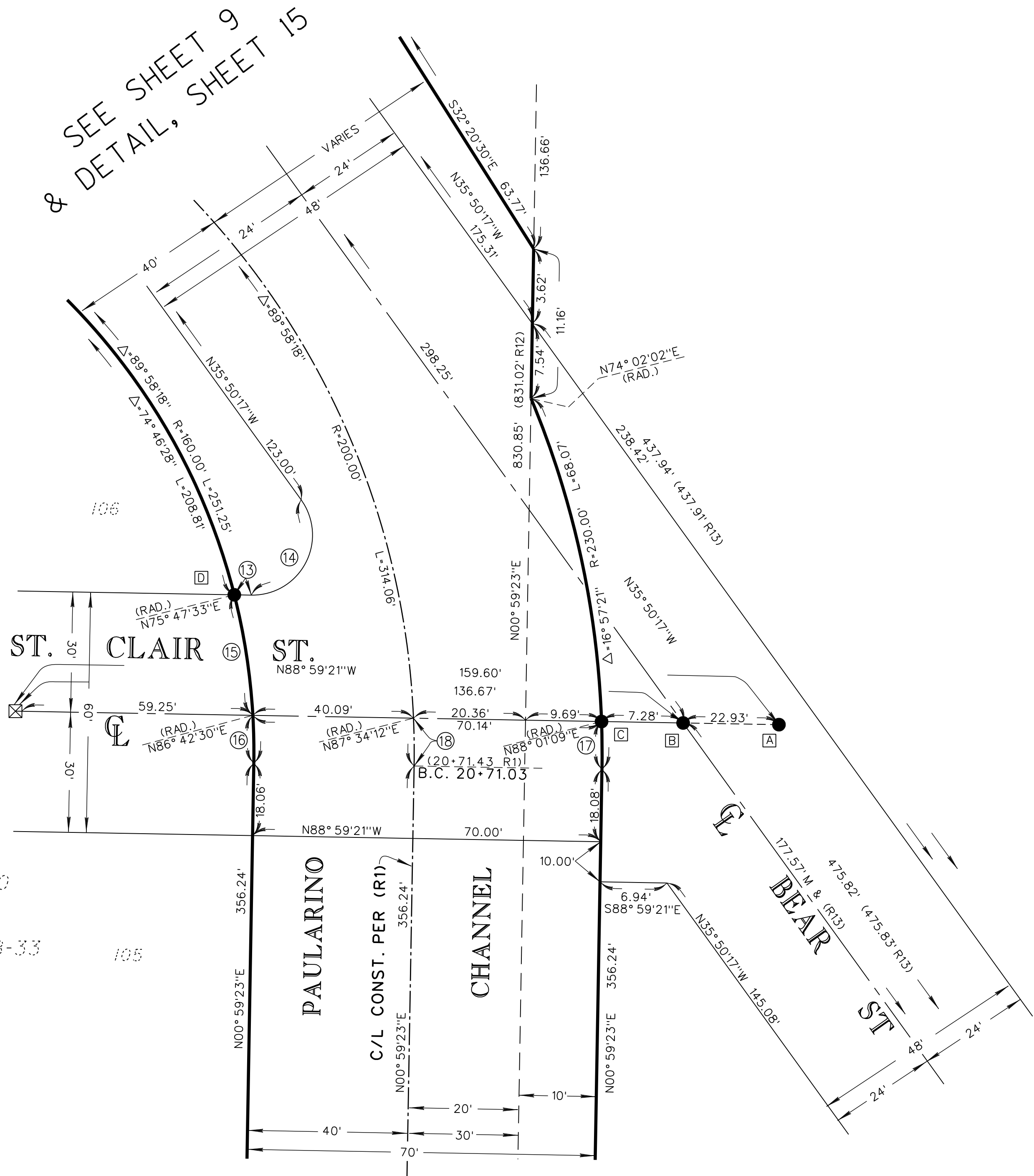
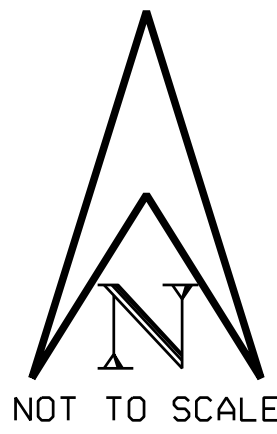
 = FOUND O.C.S. HORIZONTAL CONTROL STATION PER OCS HORIZONTAL CONTROL DATA SHEET ON FILE IN THE ORANGE COUNTY SURVEYOR'S OFFICE, GEODETIC UNIT.
 = LOCATION OF O.C.S. HORIZONTAL CONTROL STATION, SEARCHED FOR, NOT FOUND, HELD RECORD COORDINATE POSITION.
 = FOUND MONUMENT AS NOTED
 = SEARCHED, FOUND NOTHING



SEE SHEET 9
& DETAIL, SHEET 15

			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			SURVEY CONTROL SCHEMATIC	
			FROM: HARBOR BLVD. TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL	
			DATE OF SURVEY: MAY & JUNE, 2016 ALIGNMENT ANALYSIS OFFICE CHECK FIELD CHECK	BY: BOYD & KREPP BY: RON FOGLEMAN BY: BY:
MARK	DATE	ITEM	SCALE: 1" = 50' W.D.* EF03789 FILE NO. 1516PW-FL0005 FILE: PC, F03, SH14.DGN	
		REVISIONS	SHEET NO. 14 of 32	

DETAIL SHEET



MONUMENT NOTES

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- = FOUND MONUMENT AS NOTED
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- [A] FD. NAIL & CALTRANS TAG PER (R13), N01°00'39\"/>

NOTE:
ESTABLISHED THE CENTERLINE OF ST. CLAIR ST. BY HOLDING THE RECORD MONUMENTS A & D AND THEIR RECORD POSITIONS PER (R13). THIS FIT THE RECORD DISTANCE ALONG BEAR ST. MONUMENTS B & C WERE SET AT A LATER DATE AFTER CONSTRUCTION BY CR 2010-2458 AND DID NOT FIT THIS ALIGNMENT AND THEREFORE WERE NOT ACCEPTED..

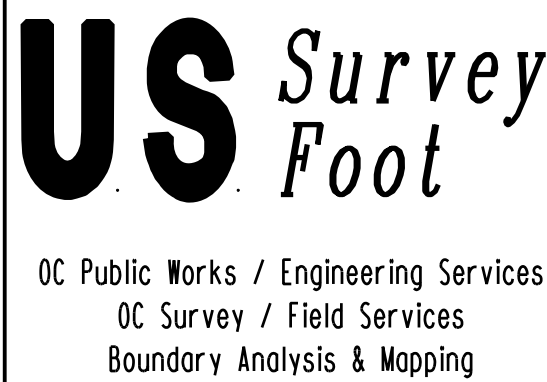
REFERENCES

- R1 = RECORD PER OCFCD CONST. PLANS F03-701-1A
R2 = RECORD PER OCFCD CONST. PLANS F03-509-1
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COURSE TABLE

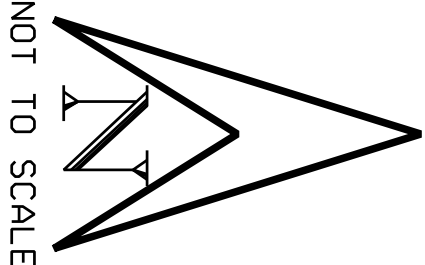
- ⑬ Δ N88°59'45\"/>

SEE SHEET 9



			COUNTY OF ORANGE OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING			
			PAULARINO CHANNEL (F03)			
			SURVEY CONTROL SCHEMATIC			
			FROM: HARBOR BLVD.			
			TO: CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
			DATE OF SURVEY: MAY & JUNE, 2016		BY: BOYD & KREPP	
			ALIGNMENT ANALYSIS		BY: RON FOGLEMAN	
			OFFICE CHECK		BY:	
			FIELD CHECK		BY:	
			SCALE: 1" = 50'		W.O.# EF03789	
					FILE NO. 1516PW-FL0005	
			FILE: PC-F03-SH15.DGN			
MARK	DATE	ITEM	SHEET NO.			
		REVISIONS	15 of 32			

DETAIL SHEET

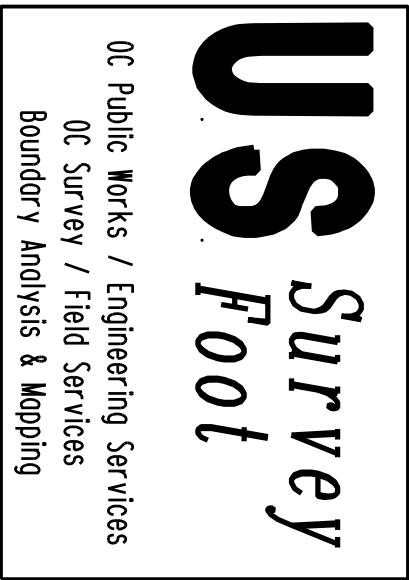
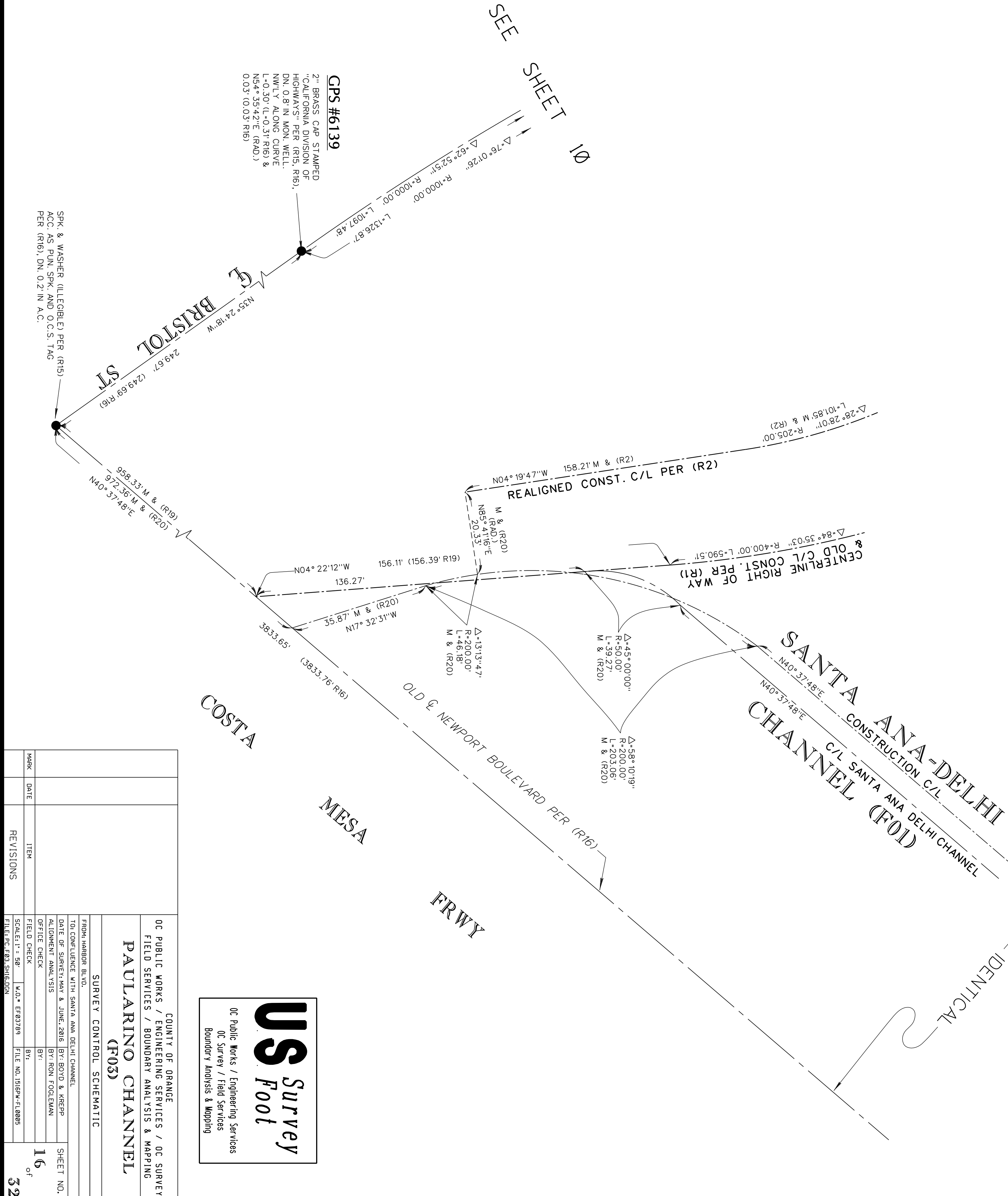
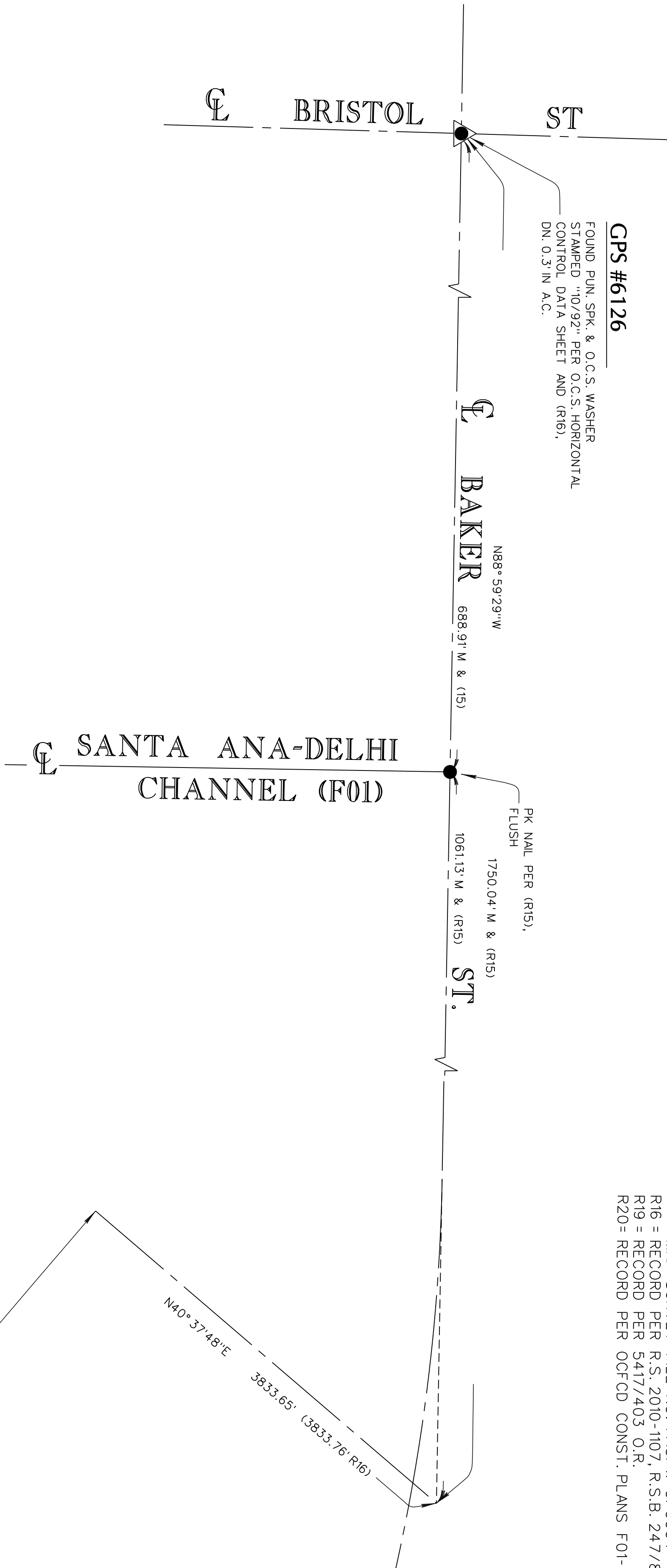


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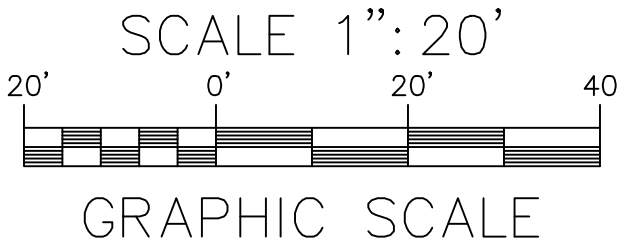
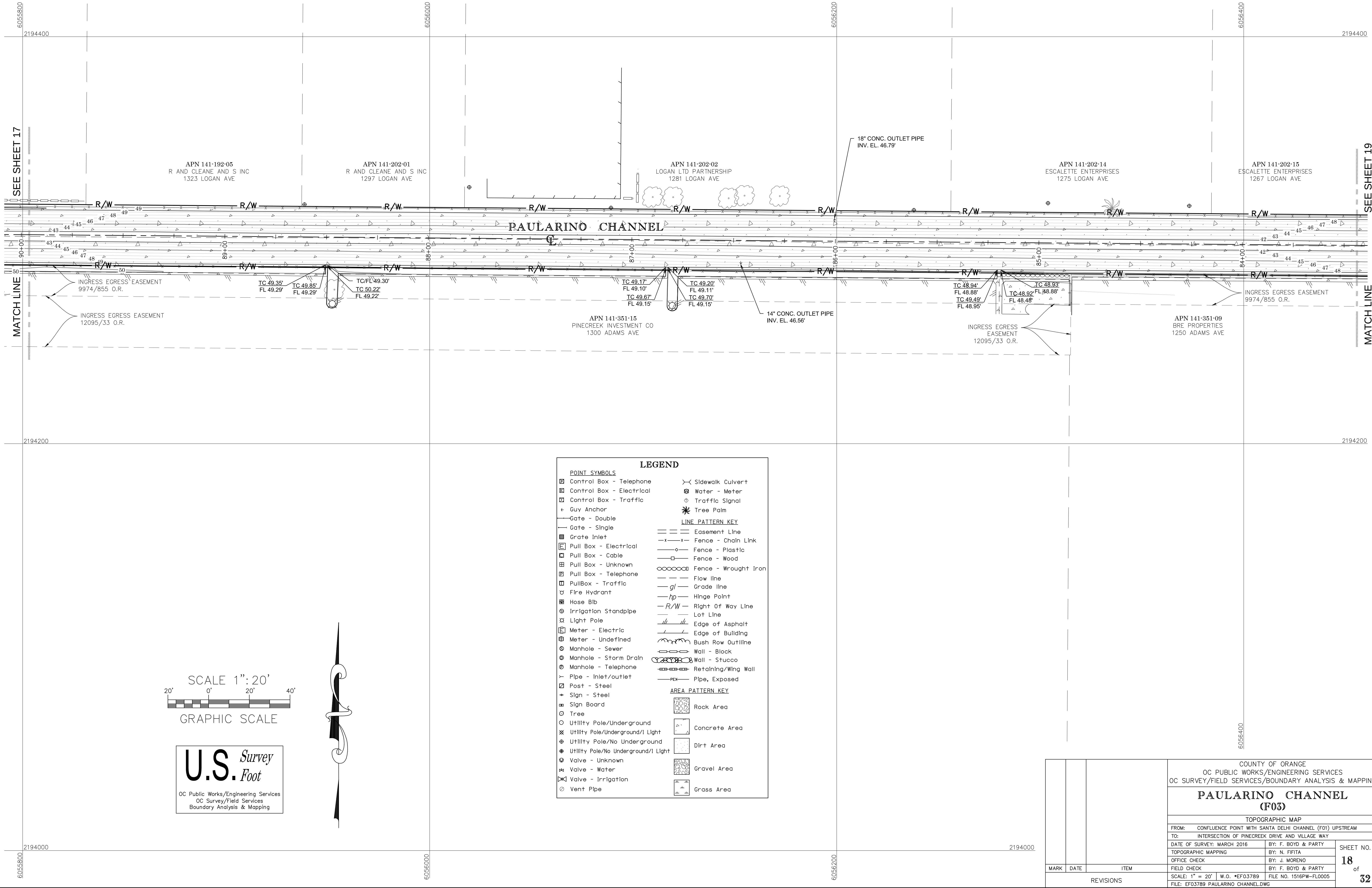
MONUMENT NOTES	
	* FOUND O.C.S. HORIZONTAL CONTROL STATION PER OCS HORIZONTAL CONTROL DATA SHEET ON FILE IN THE ORANGE COUNTY SURVEYORS OFFICE, GEODETIC UNIT.
	* LOCATION OF O.C.S. HORIZONTAL CONTROL STATION SEARCHED FOR, NOT FOUND. FIELD RECORD COORDINATE POSITION.
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R16 = RECORD PER R.S. 2010-1107, R.S.B. 2477/B-13
R19 = RECORD PER 5417/403 O.R.
R20 = RECORD PER OCFCD CONST. PLANS F01-701-12



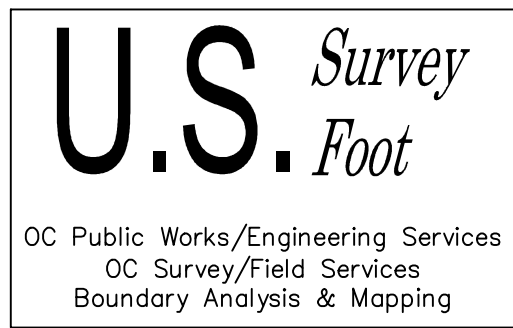
COUNTY OF ORANGE		SHEET NO.	
OC PUBLIC WORKS / ENGINEERING SERVICES / OC SURVEY FIELD SERVICES / BOUNDARY ANALYSIS & MAPPING		16	
PAULARINO CHANNEL (F03)		OF	
SURVEY CONTROL SCHEMATIC		32	
FROM HARBORE BLVD			
TO CONFLUENCE WITH SANTA ANA DELHI CHANNEL			
DATE OF SURVEY MAY & JUNE 2016 BY BDT & KREP			
ALIGNMENT ANALYSIS			
OFFICE CHECK			
FIELD CHECK			
SCALE 1" = 50'			
FILE NO. F03-SUBSECTION			



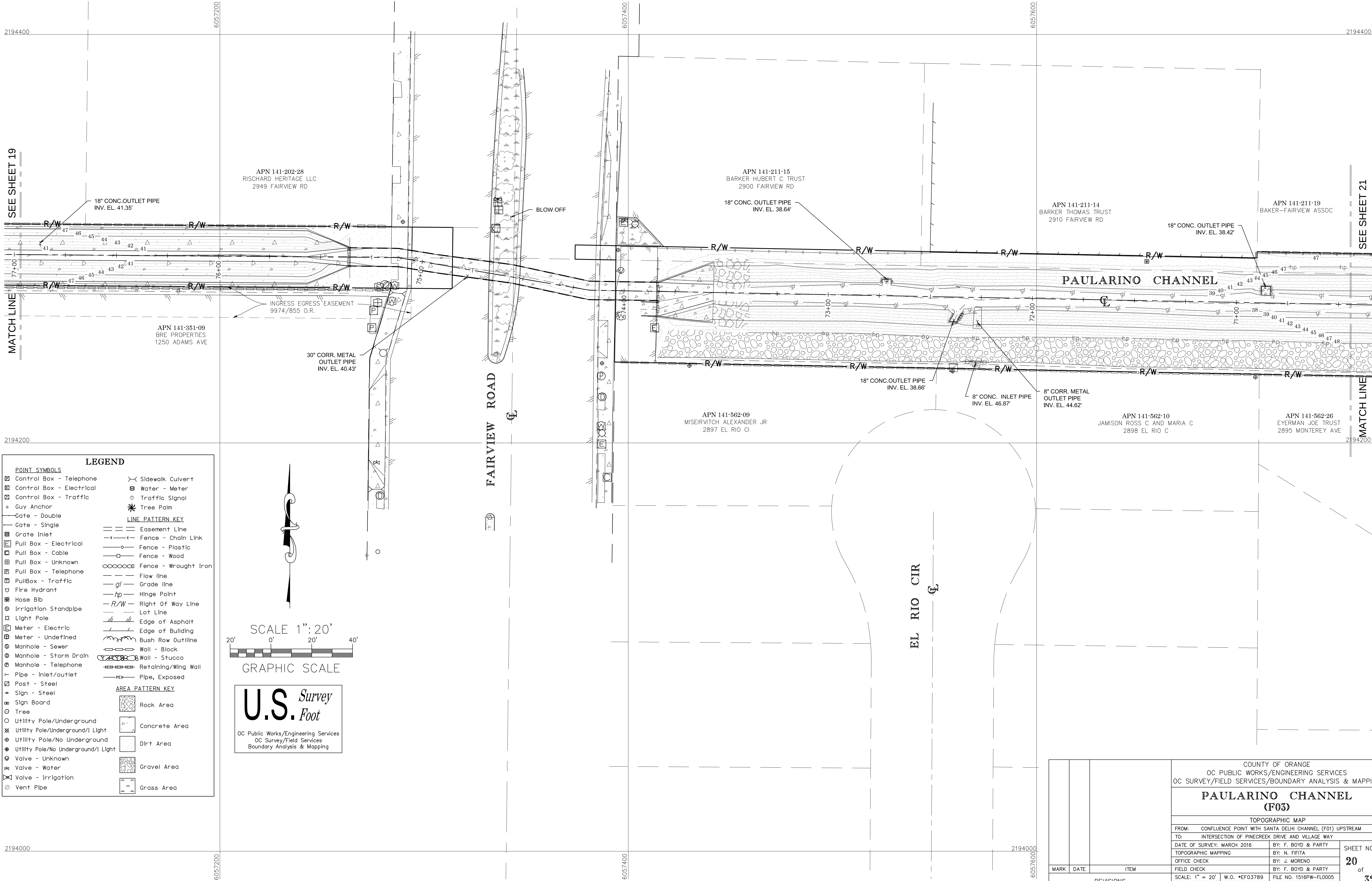
U.S. Survey
Foot
OC Public Works/Engineering Services
OC Survey/Field Services
Boundary Analysis & Mapping

LEGEND	
POINT SYMBOLS	
Control Box - Telephone	Sidewalk Culvert
Control Box - Electrical	Water - Meter
Control Box - Traffic	Traffic Signal
Guy Anchor	Tree Palm
Gate - Double	
Gate - Single	
Grate Inlet	
Pull Box - Electrical	
Pull Box - Cable	
Pull Box - Unknown	
Pull Box - Telephone	
PullBox - Traffic	
Fire Hydrant	
Hose Bib	
Irrigation Standpipe	
Light Pole	
Meter - Electric	
Meter - Undefined	
Manhole - Sewer	
Manhole - Storm Drain	
Manhole - Telephone	
Pipe - Inlet/outlet	
Post - Steel	
Sign - Steel	
Sign Board	
Tree	
Utility Pole/Underground	
Utility Pole/Underground/I Light	
Utility Pole/No Underground	
Utility Pole/No Underground/I Light	
Valve - Unknown	
Valve - Water	
Valve - Irrigation	
Vent Pipe	
LINE PATTERN KEY	
Easement Line	
Fence - Chain Link	
Fence - Plastic	
Fence - Wood	
Fence - Wrought Iron	
Flow line	
Grade line	
Hinge Point	
Right Of Way Line	
Lot Line	
Edge of Asphalt	
Edge of Building	
Bush Row Outline	
Wall - Block	
Wall - Stucco	
Retaining/Wing Wall	
Pipe, Exposed	
AREA PATTERN KEY	
Rock Area	
Concrete Area	
Dirt Area	
Gravel Area	
Grass Area	

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		PAULARINO CHANNEL (F03)			
		TOPOGRAPHIC MAP			
		FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM			
		TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY			
		DATE OF SURVEY: MARCH 2016		BY: F. BOYD & PARTY	
		TOPOGRAPHIC MAPPING		BY: N. FIETA	
		OFFICE CHECK		BY: J. MORENO	
		FIELD CHECK		BY: F. BOYD & PARTY	
		SCALE: 1" = 20'		W.O. #EF03789	
FILE: EF03789 PAULARINO CHANNEL.DWG		FILE NO. 1516PW-FL0005			
MARK	DATE	ITEM	REVISIONS		
SHEET NO. 18 of 32					



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			SHEET NO. 19 of 32
			PAULARINO CHANNEL (F03)			
			TOPOGRAPHIC MAP			
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM			
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY			
			DATE OF SURVEY: MARCH 2016	BY: F. BOYD & PARTY		
			TOPOGRAPHIC MAPPING	BY: N. FIFTA		
			OFFICE CHECK	BY: J. MORENO		
			FIELD CHECK	BY: F. BOYD & PARTY		
			SCALE: 1" = 20'		W.O. *EFO3789	
REVISIONS			FILE: EFO3789 PAULARINO CHANNEL.DWG			



LEGEND

POINT SYMBOLS

- Control Box - Telephone
- Control Box - Electrical
- Control Box - Traffic
- Guy Anchor
- Gate - Double
- Gate - Single
- Grate Inlet
- Pull Box - Electrical
- Pull Box - Cable
- Pull Box - Unknown
- Pull Box - Telephone
- Pull Box - Traffic
- Fire Hydrant
- Hose Bib
- Irrigation Standpipe
- Light Pole
- Meter - Electric
- Meter - Undefined
- Manhole - Sewer
- Manhole - Storm Drain
- Manhole - Telephone
- Pipe - Inlet/outlet
- Post - Steel
- Sign - Steel
- Sign Board
- Tree
- Utility Pole/Underground
- Utility Pole/Underground/1 Light
- Utility Pole/No Underground
- Utility Pole/No Underground/1 Light
- Valve - Unknown
- Valve - Water
- Valve - Irrigation
- Vent Pipe

LINE PATTERN KEY

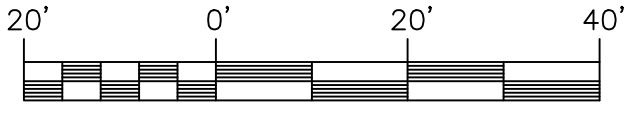
- Easement Line
- Fence - Chain Link
- Fence - Plastic
- Fence - Wood
- Fence - Wrought Iron
- Flow line
- Grade line
- Hinge Point
- Right Of Way Line
- Lot Line
- Edge of Asphalt
- Edge of Building
- Bush Row Outline
- Wall - Block
- Wall - Stucco
- Retaining/Wing Wall
- Pipe, Exposed

AREA PATTERN KEY

- Rock Area
- Concrete Area
- Dirt Area
- Gravel Area
- Grass Area



SCALE 1"=20'

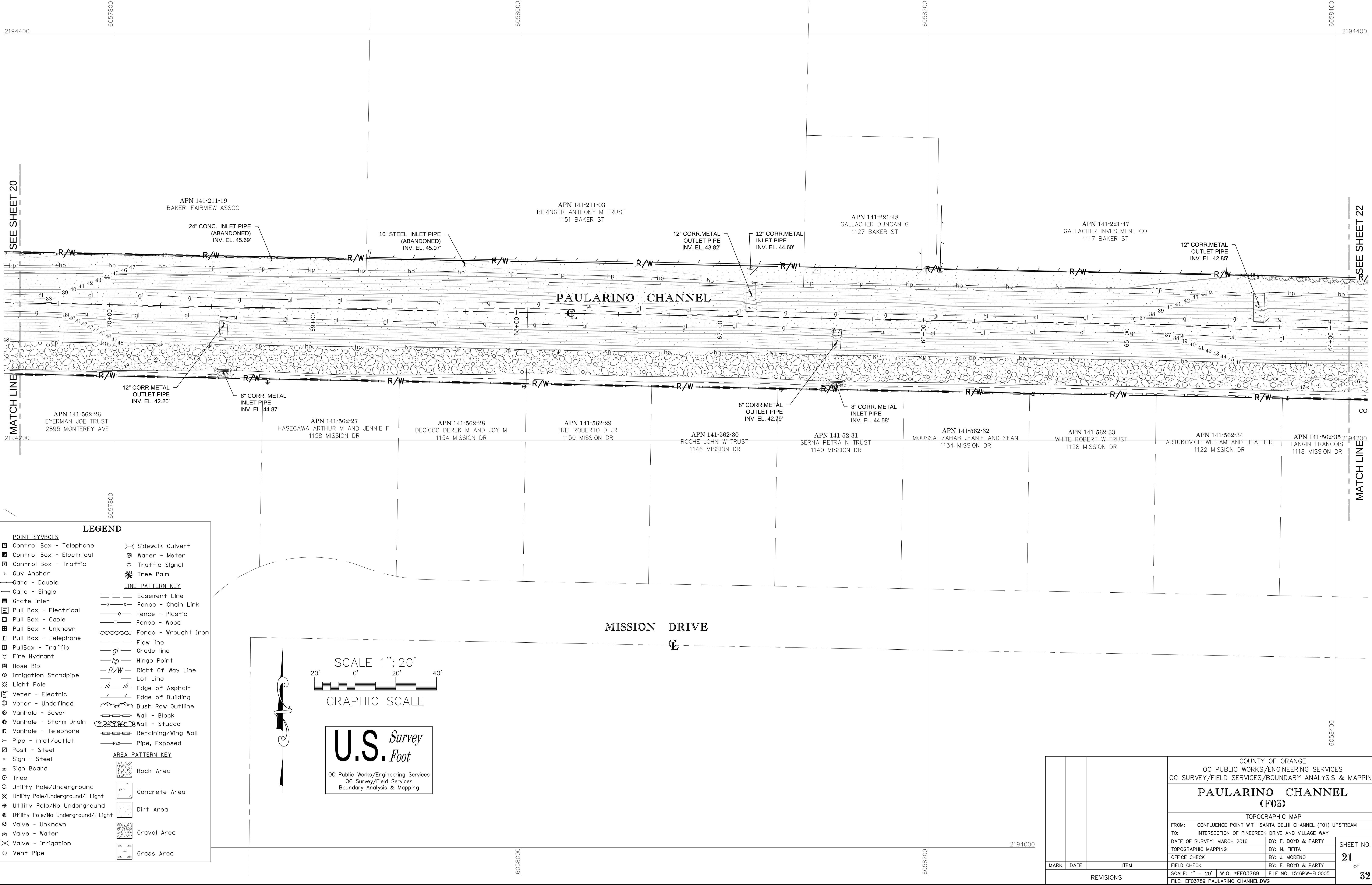


GRAPHIC SCALE

U.S. Survey Foot

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

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
		PAULARINO CHANNEL (F03)		
		TOPOGRAPHIC MAP		
		FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM		
		TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY		
		DATE OF SURVEY: MARCH 2016		SHEET NO. 20 of 32
		TOPOGRAPHIC MAPPING		
		OFFICE CHECK		
		FIELD CHECK		
		SCALE: 1" = 20' W.O. *EF03789		
MARK	DATE	ITEM	FILE: EF03789 PAULARINO CHANNEL.DWG	
REVISIONS			FILE NO. 1516PW-FL0005	



SEE SHEET 20

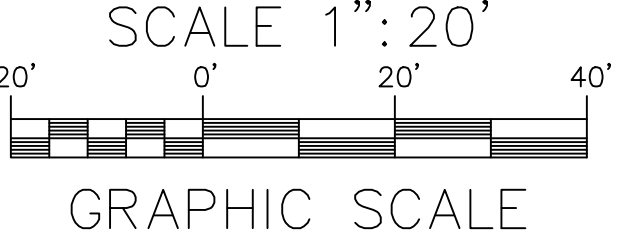
MATCH LINE

SEE SHEET 22

MATCH LINE

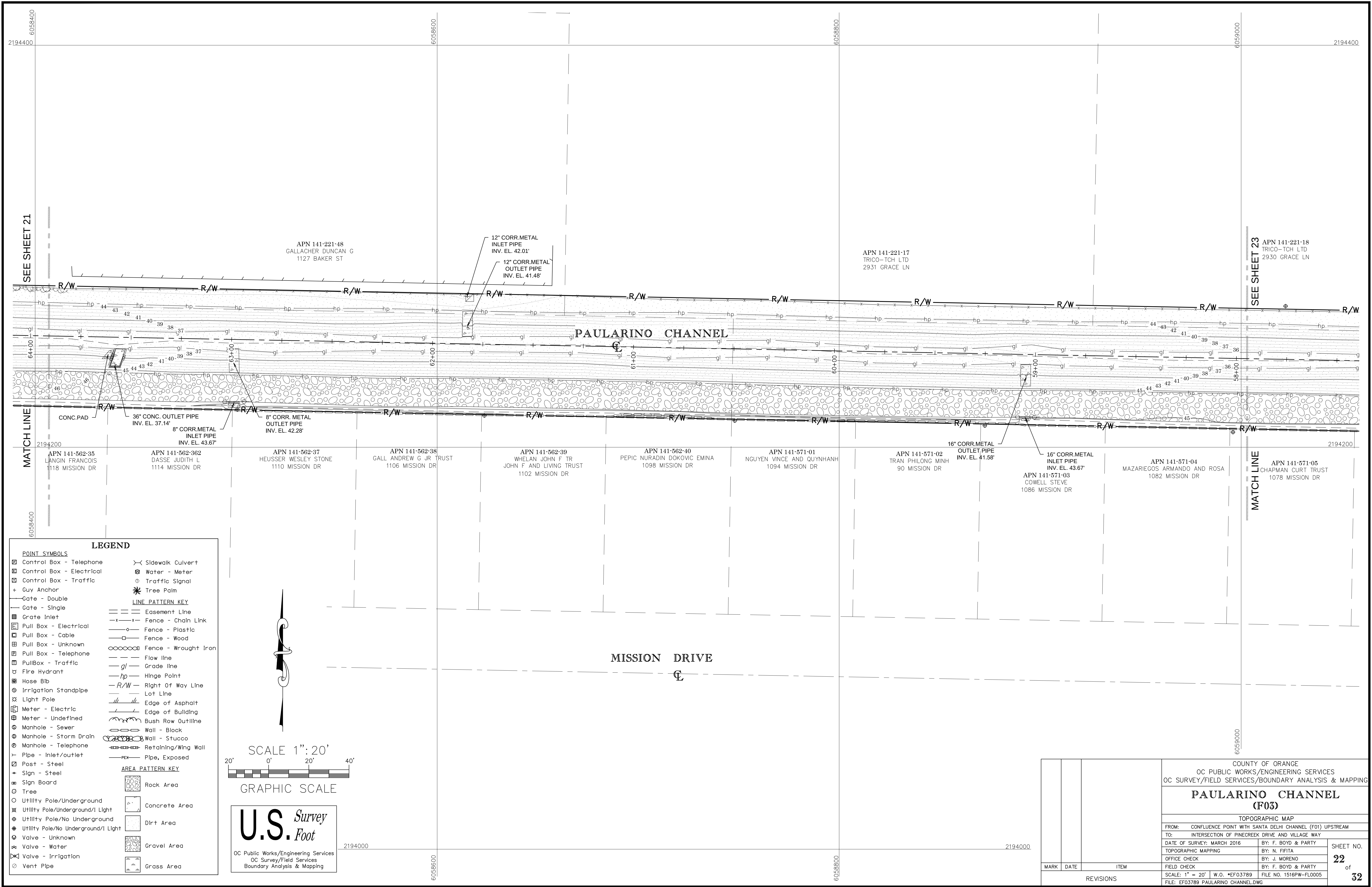
LEGEND

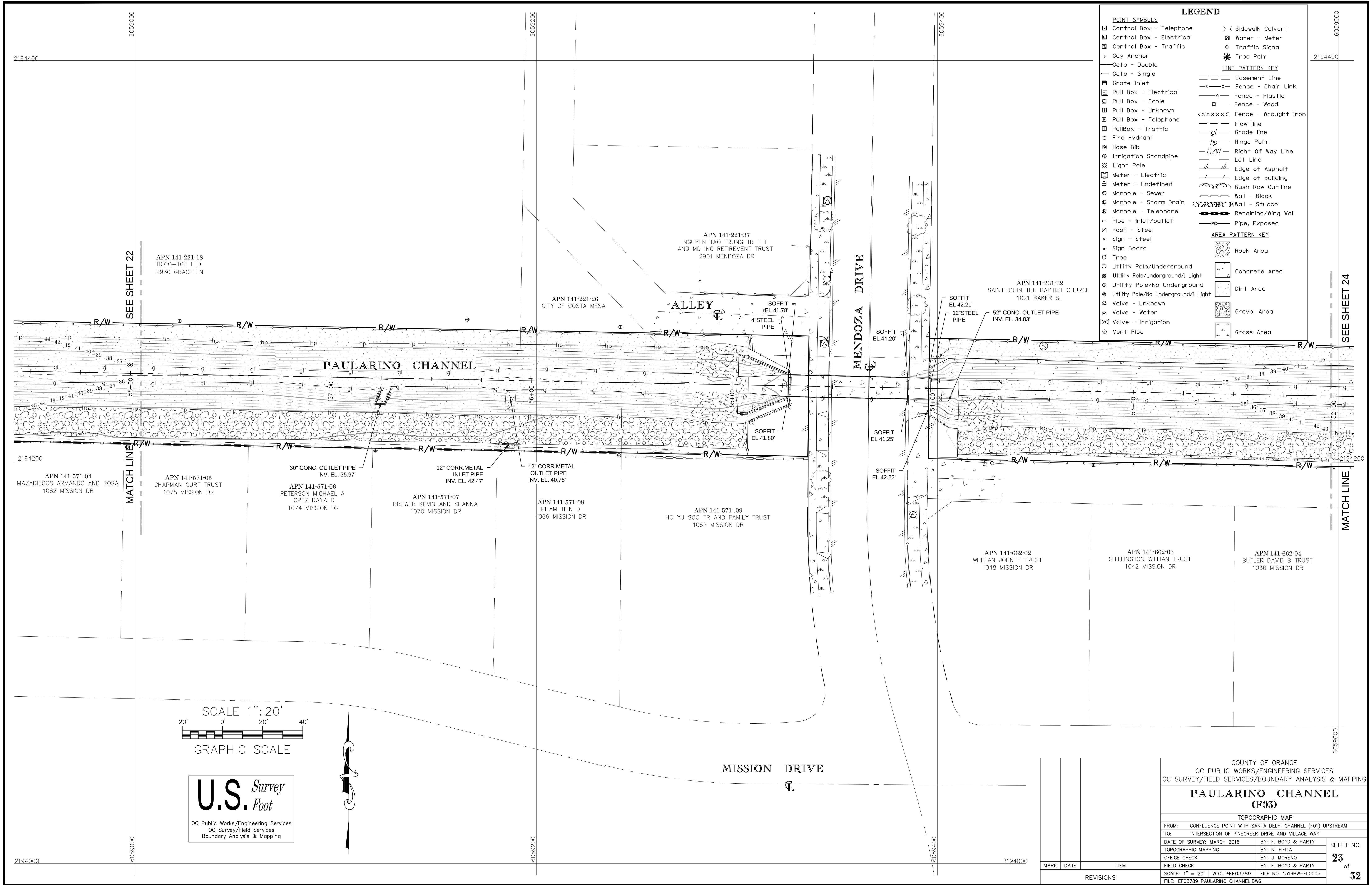
- POINT SYMBOLS**
- Control Box - Telephone
 - Control Box - Electrical
 - Control Box - Traffic
 - Guy Anchor
 - Gate - Double
 - Gate - Single
 - Gate Inlet
 - Pull Box - Electrical
 - Pull Box - Cable
 - Pull Box - Unknown
 - Pull Box - Telephone
 - Pull Box - Traffic
 - Fire Hydrant
 - Hose Bib
 - Irrigation Standpipe
 - Light Pole
 - Meter - Electric
 - Meter - Undefined
 - Manhole - Sewer
 - Manhole - Storm Drain
 - Manhole - Telephone
 - Pipe - Inlet/outlet
 - Post - Steel
 - Sign - Steel
 - Sign Board
 - Tree
 - Utility Pole/Underground
 - Utility Pole/Underground/1 Light
 - Utility Pole/No Underground
 - Utility Pole/No Underground/1 Light
 - Valve - Unknown
 - Valve - Water
 - Valve - Irrigation
 - Vent Pipe
- LINE PATTERN KEY**
- Easement Line
 - Fence - Chain Link
 - Fence - Plastic
 - Fence - Wood
 - Fence - Wrought Iron
 - Flow line
 - Grade line
 - Hinge Point
 - Right Of Way Line
 - Lot Line
 - Edge of Asphalt
 - Edge of Building
 - Bush Row Outline
 - Wall - Block
 - Wall - Stucco
 - Retaining/Wing Wall
 - Pipe, Exposed
- AREA PATTERN KEY**
- Rock Area
 - Concrete Area
 - Dirt Area
 - Gravel Area
 - Grass Area
- Sidewalk Culvert**
- Water - Meter
 - Traffic Signal
 - Tree Palm



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

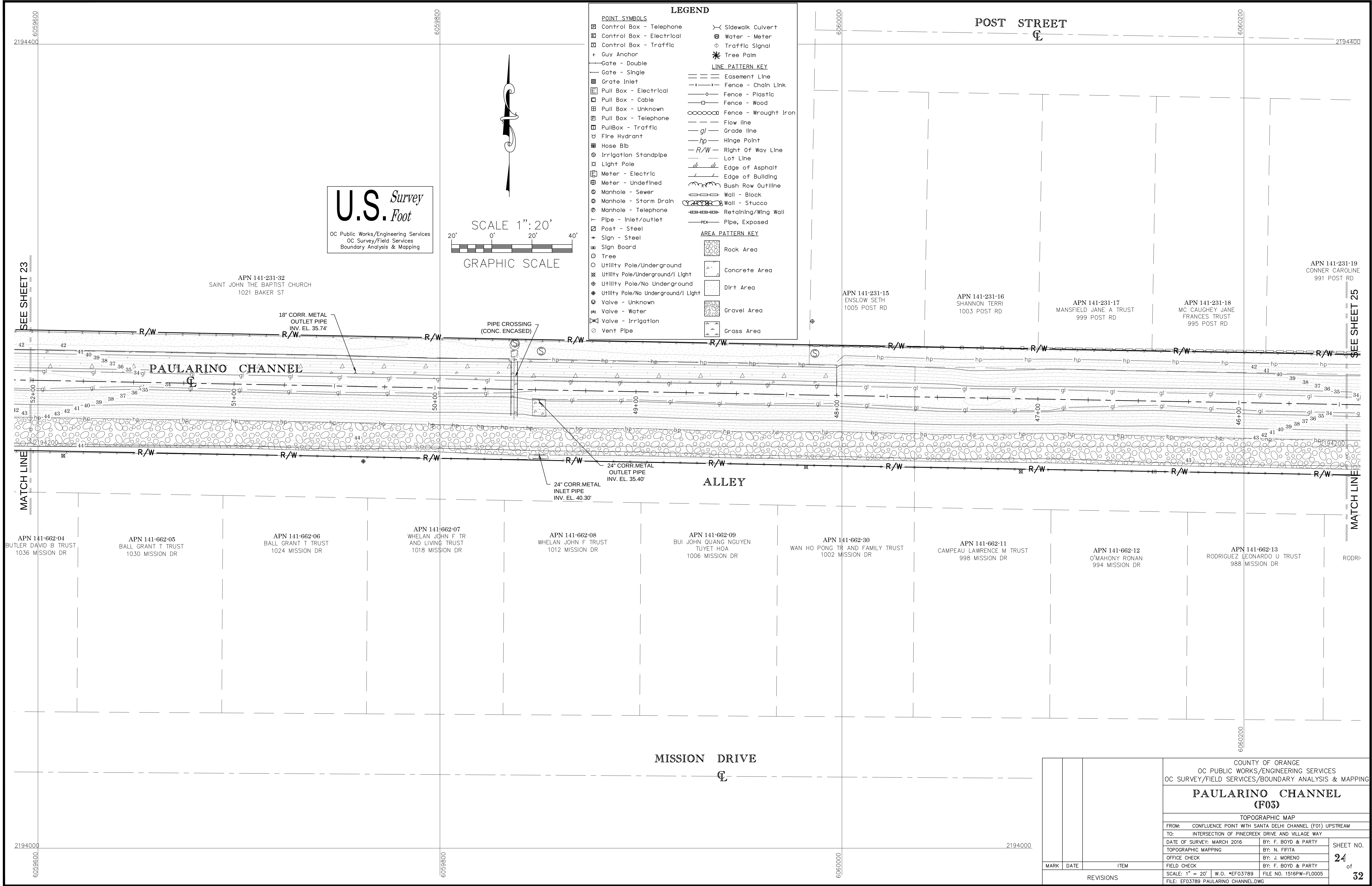
			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			PAULARINO CHANNEL (F03)			
			TOPOGRAPHIC MAP			
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM			
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY			
			DATE OF SURVEY: MARCH 2016	BY: F. BOYD & PARTY	SHEET NO. 21 of 32	
			TOPOGRAPHIC MAPPING	BY: N. FIITA		
			OFFICE CHECK	BY: J. MORENO		
			FIELD CHECK	BY: F. BOYD & PARTY		
			SCALE: 1" = 20'	W.O. *EF03789 FILE NO. 1516PW-FL0005 FILE: EF03789 PAULARINO CHANNEL.DWG		
MARK	DATE	ITEM	REVISIONS			



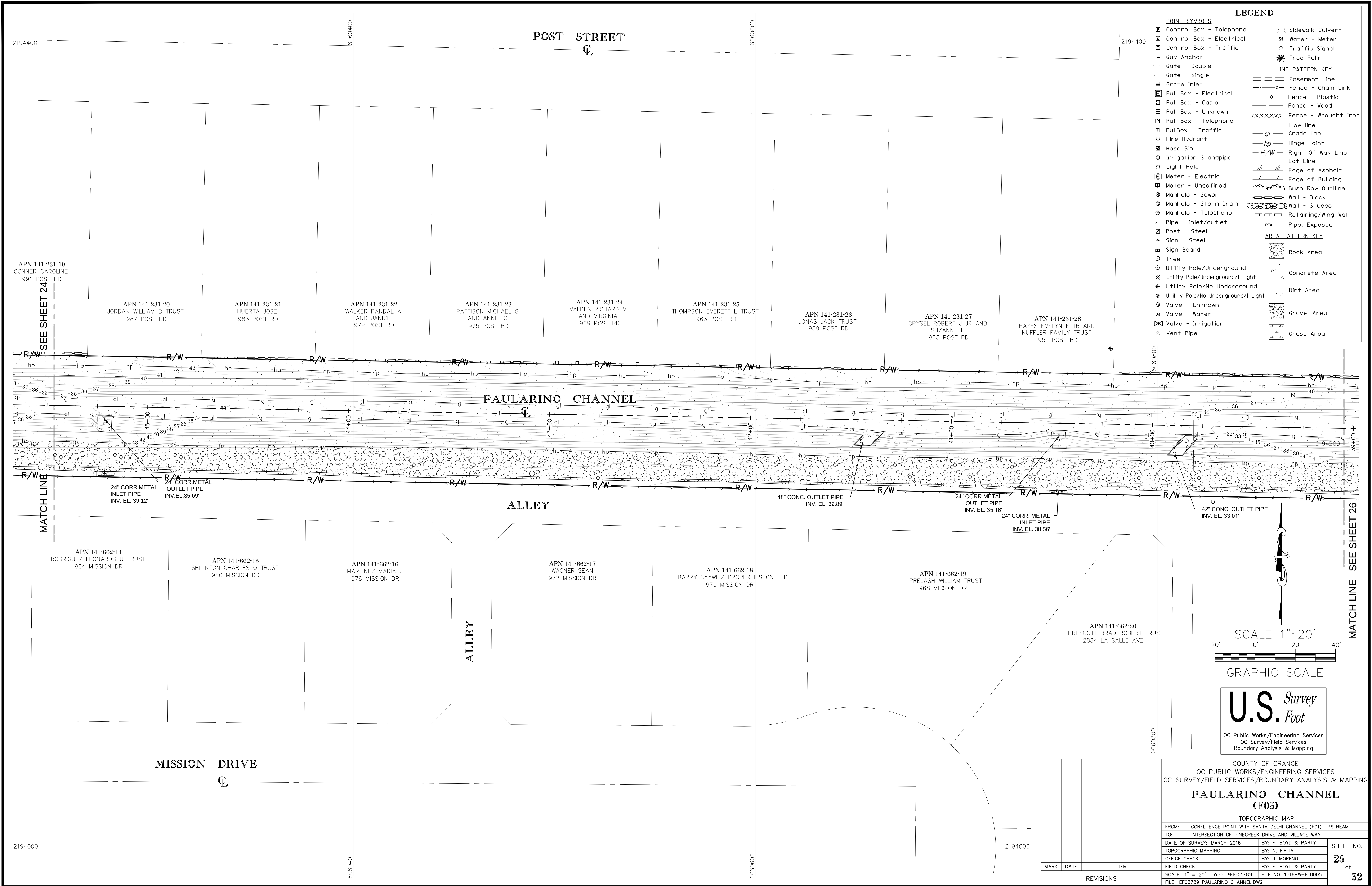


U.S. Survey
Foot
OC Public Works/Engineering Services
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			PAULARINO CHANNEL (F03)				
			TOPOGRAPHIC MAP				
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM				
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY				
			DATE OF SURVEY: MARCH 2016		BY: F. BOYD & PARTY		SHEET NO. 23 of 32
			TOPOGRAPHIC MAPPING		BY: N. FIETA		
			OFFICE CHECK		BY: J. MORENO		
			FIELD CHECK		BY: F. BOYD & PARTY		
			SCALE: 1" = 20'		W.O. *EF03789		
FILE: EF03789 PAULARINO CHANNEL.DWG		FILE NO. 1516PW-FL0005					
MARK	DATE	ITEM					
REVISIONS							



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			PAULARINO CHANNEL (F03)		
			TOPOGRAPHIC MAP		
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM		
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY		
			DATE OF SURVEY: MARCH 2016		SHEET NO. 24 of 32
			TOPOGRAPHIC MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
			SCALE: 1" = 20' W.O. *EF03789		
FILE: EF03789 PAULARINO CHANNEL.DWG		FILE NO. 1516PW-FL0005			
REVISIONS					



LEGEND

POINT SYMBOLS

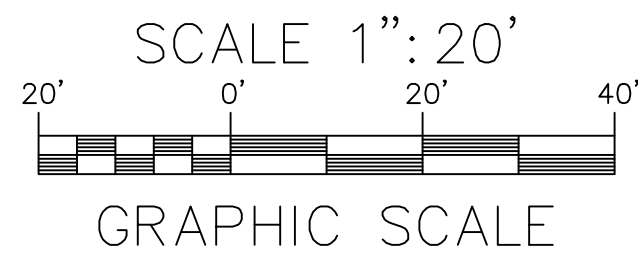
- Control Box - Telephone
- Control Box - Electrical
- Control Box - Traffic
- Guy Anchor
- Gate - Double
- Gate - Single
- Gate Inlet
- Pull Box - Electrical
- Pull Box - Cable
- Pull Box - Unknown
- Pull Box - Telephone
- Pull Box - Traffic
- Fire Hydrant
- Hose Bib
- Irrigation Standpipe
- Light Pole
- Meter - Electric
- Meter - Undefined
- Manhole - Sewer
- Manhole - Storm Drain
- Manhole - Telephone
- Pipe - Inlet/outlet
- Post - Steel
- Sign - Steel
- Sign Board
- Tree
- Utility Pole/Underground
- Utility Pole/Underground/I Light
- Utility Pole/No Underground
- Utility Pole/No Underground/I Light
- Valve - Unknown
- Valve - Water
- Valve - Irrigation
- Vent Pipe
- Sidewalk Culvert
- Water - Meter
- Traffic Signal
- Tree Palm

LINE PATTERN KEY

- Easement Line
- Fence - Chain Link
- Fence - Plastic
- Fence - Wood
- Fence - Wrought Iron
- Flow line
- Grade line
- Hinge Point
- Right Of Way Line
- Lot Line
- Edge of Asphalt
- Edge of Building
- Bush Row Outline
- Wall - Block
- Wall - Stucco
- Retaining/Wing Wall
- Pipe, Exposed

AREA PATTERN KEY

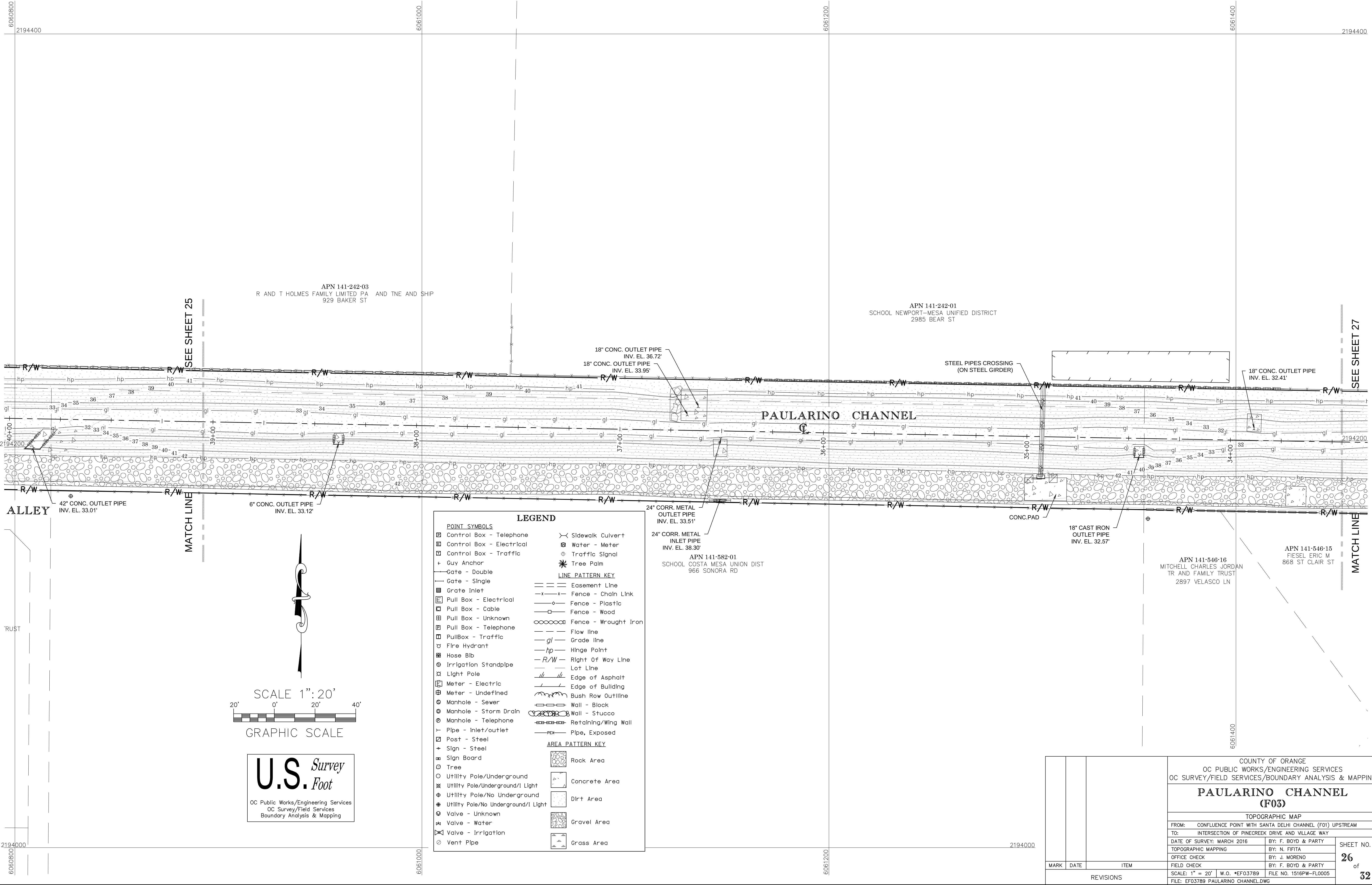
- Rock Area
- Concrete Area
- Dirt Area
- Gravel Area
- Grass Area



U.S. Survey Foot

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

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
PAULARINO CHANNEL (F03)		
TOPOGRAPHIC MAP		
FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM		
TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY		
DATE OF SURVEY: MARCH 2016	BY: F. BOYD & PARTY	SHEET NO. 25 of 32
TOPOGRAPHIC MAPPING	BY: N. FIETA	
OFFICE CHECK	BY: J. MORENO	
FIELD CHECK	BY: F. BOYD & PARTY	
SCALE: 1" = 20'	W.O. #EF03789	FILE NO. 1516PW-FL0005
FILE: EF03789 PAULARINO CHANNEL.DWG		
MARK	DATE	ITEM
REVISIONS		



LEGEND

POINT SYMBOLS

- Control Box - Telephone
- Control Box - Electrical
- Control Box - Traffic
- Guy Anchor
- Gate - Double
- Gate - Single
- Grate Inlet
- Pull Box - Electrical
- Pull Box - Cable
- Pull Box - Unknown
- Pull Box - Telephone
- Pull Box - Traffic
- Fire Hydrant
- Hose Bib
- Irrigation Standpipe
- Light Pole
- Meter - Electric
- Meter - Undefined
- Manhole - Sewer
- Manhole - Storm Drain
- Manhole - Telephone
- Pipe - Inlet/outlet
- Post - Steel
- Sign - Steel
- Sign Board
- Tree
- Utility Pole/Underground
- Utility Pole/Underground/I Light
- Utility Pole/No Underground
- Utility Pole/No Underground/I Light
- Valve - Unknown
- Valve - Water
- Valve - Irrigation
- Vent Pipe

LINE PATTERN KEY

- Sidewalk Culvert
- Water - Meter
- Traffic Signal
- Tree Palm
- Easement Line
- Fence - Chain Link
- Fence - Plastic
- Fence - Wood
- Fence - Wrought Iron
- Flow line
- Grade line
- Hinge Point
- Right Of Way Line
- Lot Line
- Edge of Asphalt
- Edge of Building
- Bush Row Outline
- Wall - Block
- Wall - Stucco
- Retaining/Wing Wall
- Pipe, Exposed

AREA PATTERN KEY

- Rock Area
- Concrete Area
- Dirt Area
- Gravel Area
- Grass Area

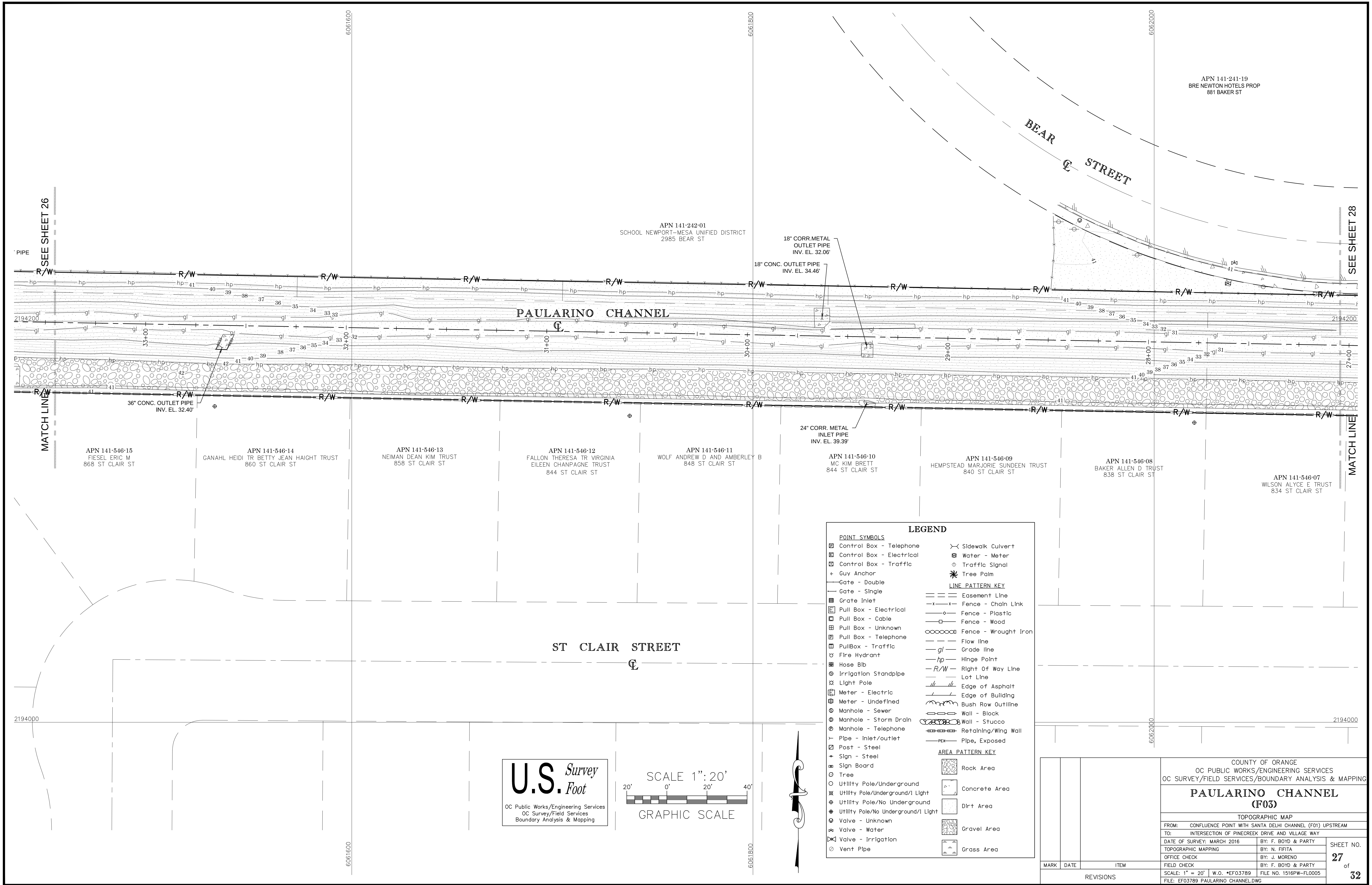
SCALE 1" = 20'

GRAPHIC SCALE

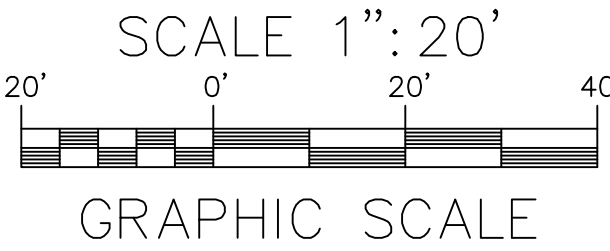
U.S. Survey Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			TOPOGRAPHIC MAP	
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM	
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY	
			DATE OF SURVEY: MARCH 2016	BY: F. BOYD & PARTY
			TOPOGRAPHIC MAPPING	BY: N. FIFTA
			OFFICE CHECK	BY: J. MORENO
			FIELD CHECK	BY: F. BOYD & PARTY
			SCALE: 1" = 20'	W.O. *EF03789
			FILE: EF03789 PAULARINO CHANNEL.DWG	FILE NO. 1516PW-FL0005
MARK	DATE	ITEM		
REVISIONS				
			SHEET NO. 26 of 32	



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



LEGEND

POINT SYMBOLS

- Control Box - Telephone
- Control Box - Electrical
- Control Box - Traffic
- Guy Anchor
- Gate - Double
- Gate - Single
- Grate Inlet
- Pull Box - Electrical
- Pull Box - Cable
- Pull Box - Unknown
- Pull Box - Telephone
- Pull Box - Traffic
- Fire Hydrant
- Hose Bib
- Irrigation Standpipe
- Light Pole
- Meter - Electric
- Meter - Undefined
- Manhole - Sewer
- Manhole - Storm Drain
- Manhole - Telephone
- Pipe - Inlet/outlet
- Post - Steel
- Sign - Steel
- Sign Board
- Tree
- Utility Pole/Underground
- Utility Pole/Underground/1 Light
- Utility Pole/No Underground
- Utility Pole/No Underground/1 Light
- Valve - Unknown
- Valve - Water
- Valve - Irrigation
- Vent Pipe
- Sidewalk Culvert
- Water - Meter
- Traffic Signal
- Tree Palm

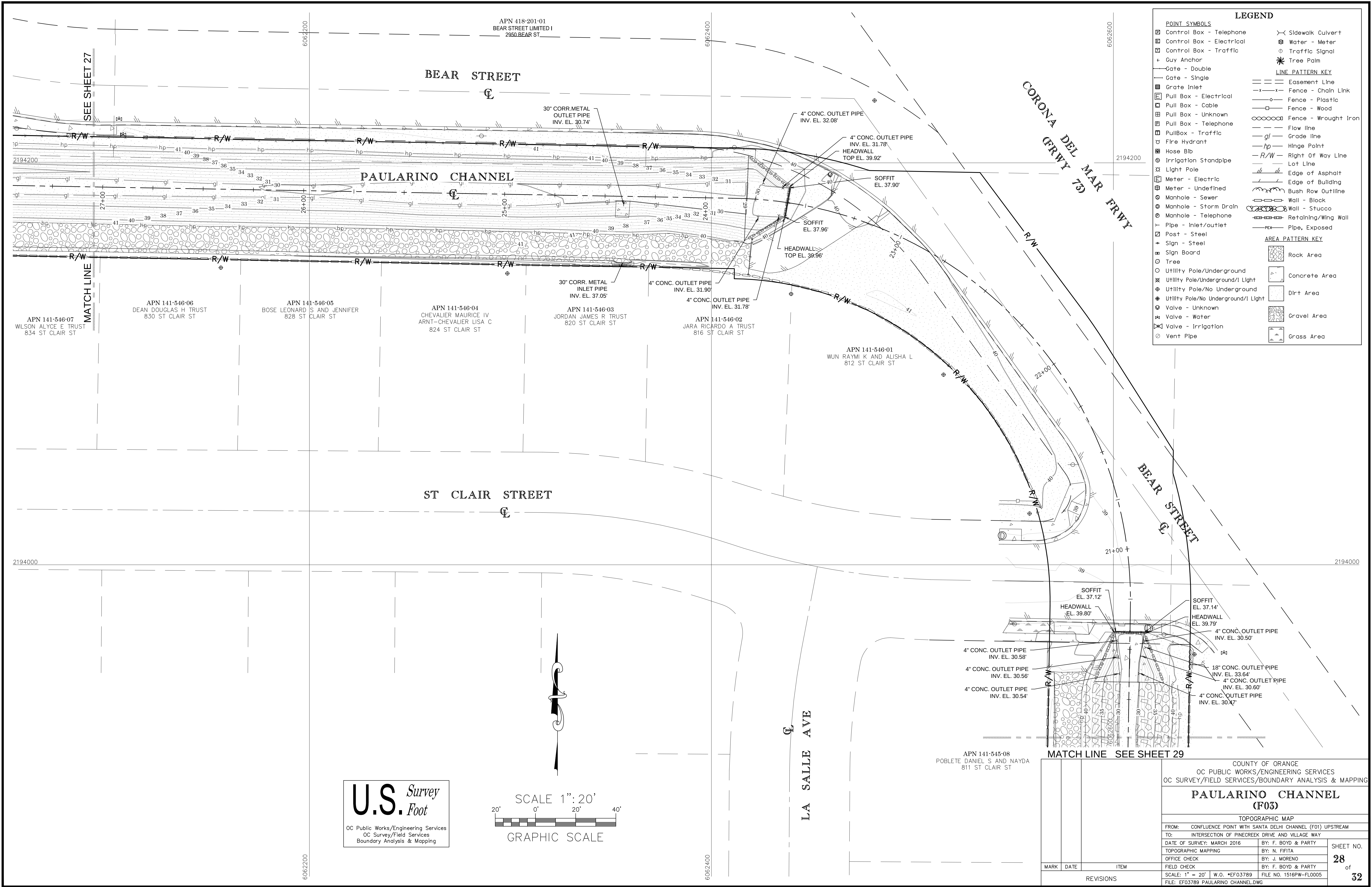
LINE PATTERN KEY

- Easement Line
- Fence - Chain Link
- Fence - Plastic
- Fence - Wood
- Fence - Wrought Iron
- Flow line
- Grade line
- Hinge Point
- Right Of Way Line
- Lot Line
- Edge of Asphalt
- Edge of Building
- Bush Row Outline
- Wall - Block
- Wall - Stucco
- Retaining/Wing Wall
- Pipe, Exposed

AREA PATTERN KEY

- Rock Area
- Concrete Area
- Dirt Area
- Gravel Area
- Grass Area

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		PAULARINO CHANNEL (F03)			
		TOPOGRAPHIC MAP			
		FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM			
		TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY			
		DATE OF SURVEY: MARCH 2016		BY: F. BOYD & PARTY	
		TOPOGRAPHIC MAPPING		BY: N. FIRITA	
		OFFICE CHECK		BY: J. MORENO	
		FIELD CHECK		BY: F. BOYD & PARTY	
		SCALE: 1" = 20'		W.O. #EF03789	
MARK	DATE	ITEM	FILE NO. 1516PW-FL0005		
REVISIONS			FILE: EF03789 PAULARINO CHANNEL.DWG		



LEGEND

POINT SYMBOLS

- Control Box - Telephone
- Control Box - Electrical
- Control Box - Traffic
- Guy Anchor
- Gate - Double
- Gate - Single
- Grate Inlet
- Pull Box - Electrical
- Pull Box - Cable
- Pull Box - Unknown
- Pull Box - Telephone
- Pull Box - Traffic
- Fire Hydrant
- Hose Blb
- Irrigation Standpipe
- Light Pole
- Meter - Electric
- Meter - Undefined
- Manhole - Sewer
- Manhole - Storm Drain
- Manhole - Telephone
- Pipe - Inlet/outlet
- Post - Steel
- Sign - Steel
- Sign Board
- Tree
- Utility Pole/Underground
- Utility Pole/Underground/I Light
- Utility Pole/No Underground
- Utility Pole/No Underground/I Light
- Valve - Unknown
- Valve - Water
- Valve - Irrigation
- Vent Pipe

LINE PATTERN KEY

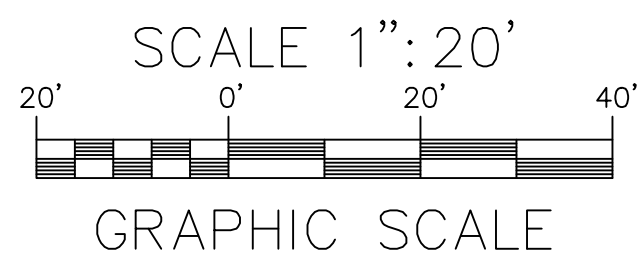
- Easement Line
- Fence - Chain Link
- Fence - Plastic
- Fence - Wood
- Fence - Wrought Iron
- Flow line
- Grade line
- Hinge Point
- Right Of Way Line
- Lot Line
- Edge of Asphalt
- Edge of Building
- Bush Row Outline
- Wall - Block
- Wall - Stucco
- Retaining/Wing Wall
- Pipe, Exposed

AREA PATTERN KEY

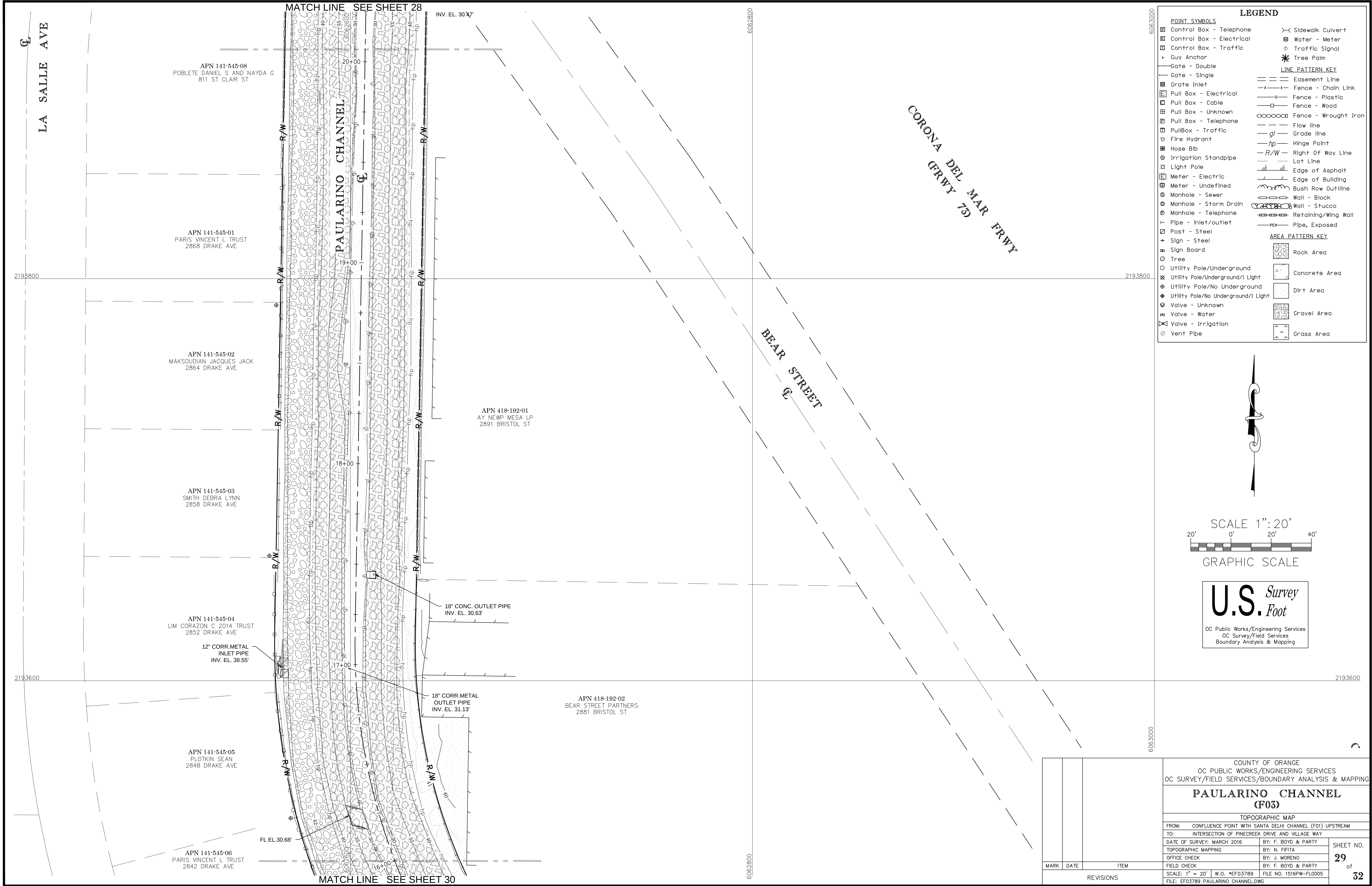
- Rock Area
- Concrete Area
- Dirt Area
- Gravel Area
- Grass Area

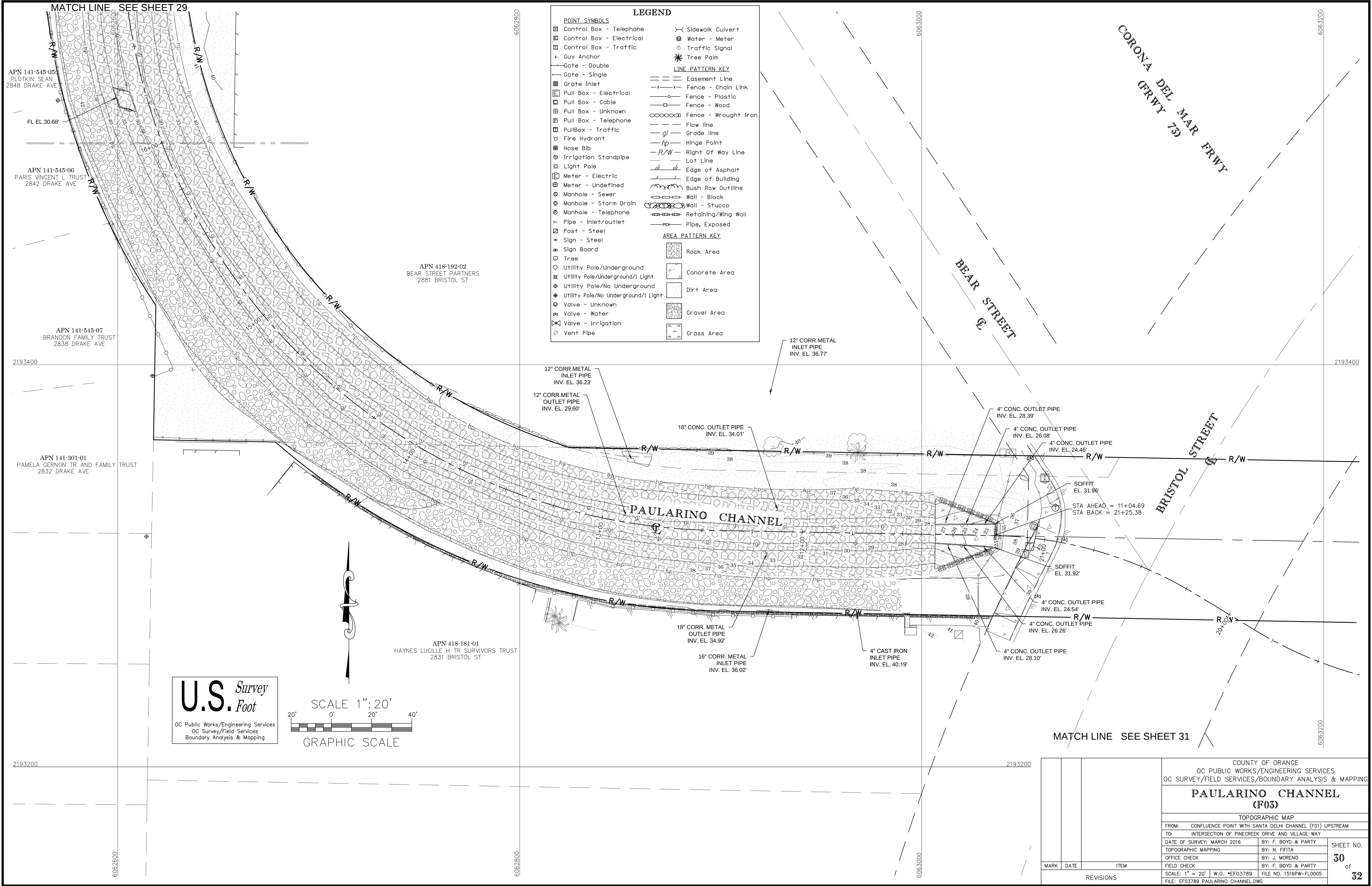
U.S. Survey Foot

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

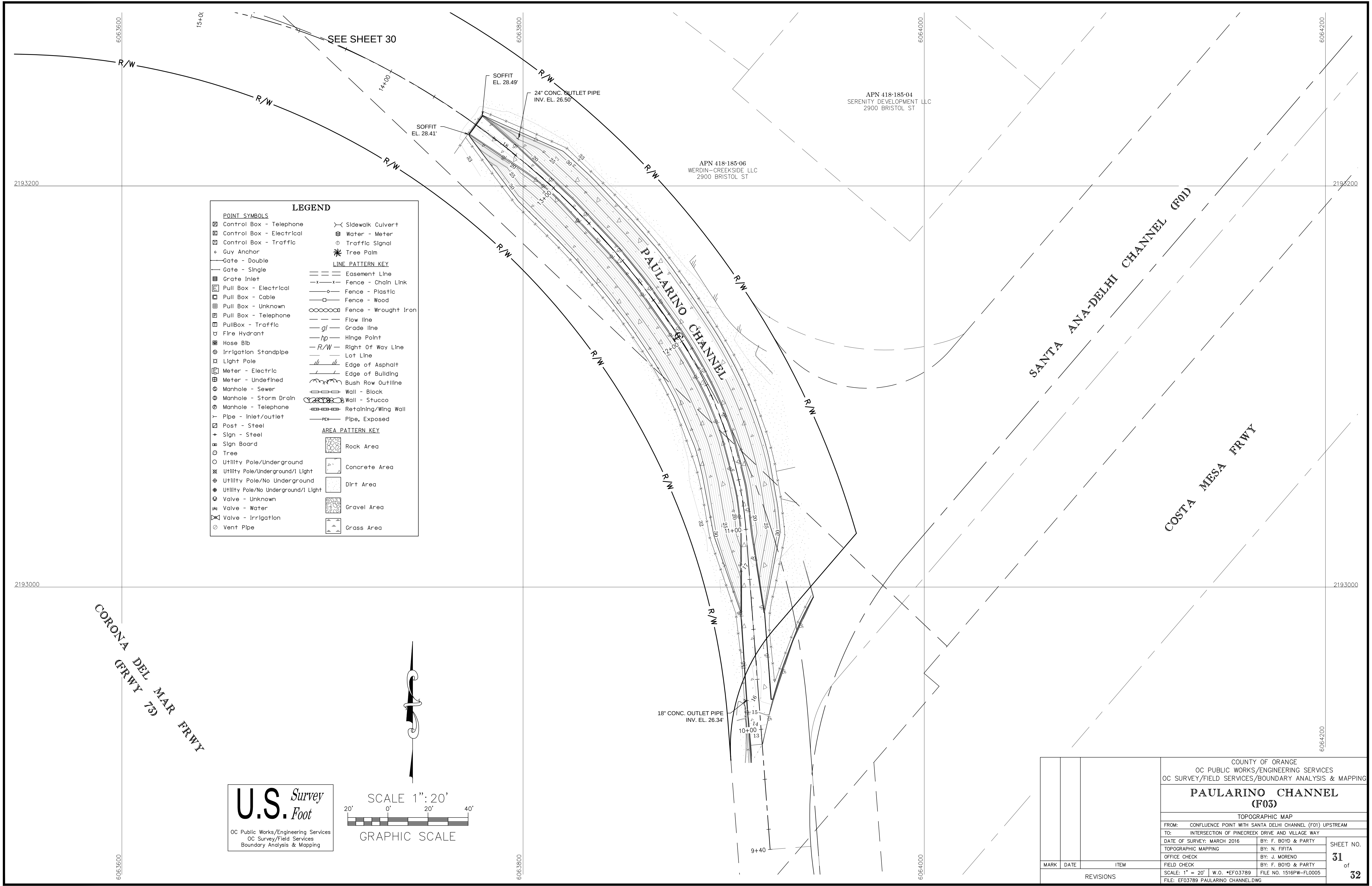


MATCH LINE SEE SHEET 29				
			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			PAULARINO CHANNEL (F03)	
			TOPOGRAPHIC MAP	
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM	
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY	
			DATE OF SURVEY: MARCH 2016	BY: F. BOYD & PARTY
			TOPOGRAPHIC MAPPING	BY: N. FIJITA
			OFFICE CHECK	BY: J. MORENO
			FIELD CHECK	BY: F. BOYD & PARTY
			SCALE: 1" = 20'	W.O. #EF03789
FILE: EF03789 PAULARINO CHANNEL.DWG	FILE NO. 1516PW-FL0005			
MARK	DATE	ITEM	SHEET NO. 28 of 32	
REVISIONS				



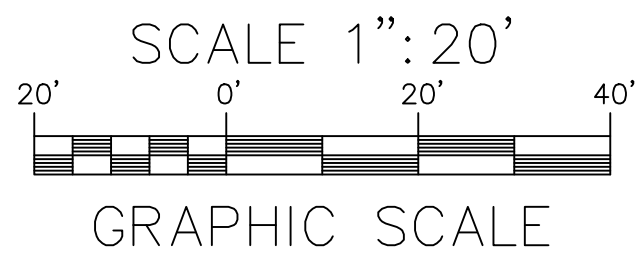


			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			PAULARINO CHANNEL (F03)		
			TOPOGRAPHIC MAP		
FROM:			CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM		
TO:			INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY		
DATE OF SURVEY:			MARCH 2016	BY: F. BOYD & PARTY	SHEET NO. 30 of 32
TOPOGRAPHIC MAPPING				BY: N. FIETA	
OFFICE CHECK				BY: J. MORENO	
FIELD CHECK				BY: F. BOYD & PARTY	
SCALE: 1" = 20'			W.O. *EF03789	FILE NO. 1516PW-FL0005	
FILE: EF03789 PAULARINO CHANNEL.DWG					
MARK	DATE	ITEM			
REVISIONS					



LEGEND	
POINT SYMBOLS	
	Control Box - Telephone
	Control Box - Electrical
	Control Box - Traffic
	Guy Anchor
	Gate - Double
	Gate - Single
	Grate Inlet
	Pull Box - Electrical
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	Pull Box - Unknown
	Pull Box - Telephone
	Pull Box - Traffic
	Fire Hydrant
	Hose Bib
	Irrigation Standpipe
	Light Pole
	Meter - Electric
	Meter - Undefined
	Manhole - Sewer
	Manhole - Storm Drain
	Manhole - Telephone
	Pipe - Inlet/outlet
	Post - Steel
	Sign - Steel
	Sign Board
	Tree
	Utility Pole/Underground
	Utility Pole/Underground/1 Light
	Utility Pole/No Underground
	Utility Pole/No Underground/1 Light
	Valve - Unknown
	Valve - Water
	Valve - Irrigation
	Vent Pipe
	Sidewalk Culvert
	Water - Meter
	Traffic Signal
	Tree Palm
LINE PATTERN KEY	
	Easement Line
	Fence - Chain Link
	Fence - Plastic
	Fence - Wood
	Fence - Wrought Iron
	Flow line
	Grade line
	Hinge Point
	Right Of Way Line
	Lot Line
	Edge of Asphalt
	Edge of Building
	Bush Row Outline
	Wall - Block
	Wall - Stucco
	Retaining/Wing Wall
	Pipe, Exposed
AREA PATTERN KEY	
	Rock Area
	Concrete Area
	Dirt Area
	Gravel Area
	Grass Area

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



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			PAULARINO CHANNEL (F03)				
			TOPOGRAPHIC MAP				
			FROM: CONFLUENCE POINT WITH SANTA DELHI CHANNEL (F01) UPSTREAM				
			TO: INTERSECTION OF PINECREEK DRIVE AND VILLAGE WAY				
			DATE OF SURVEY: MARCH 2016		BY: F. BOYD & PARTY		SHEET NO. 31 of 32
			TOPOGRAPHIC MAPPING		BY: N. FIETA		
			OFFICE CHECK		BY: J. MORENO		
			FIELD CHECK		BY: F. BOYD & PARTY		
			SCALE: 1" = 20'		W.O. *EF03789		
FILE: EF03789 PAULARINO CHANNEL.DWG		FILE NO. 1516PW-FL0005					
MARK	DATE	ITEM					
REVISIONS							

