

SEE SHEET 5-7

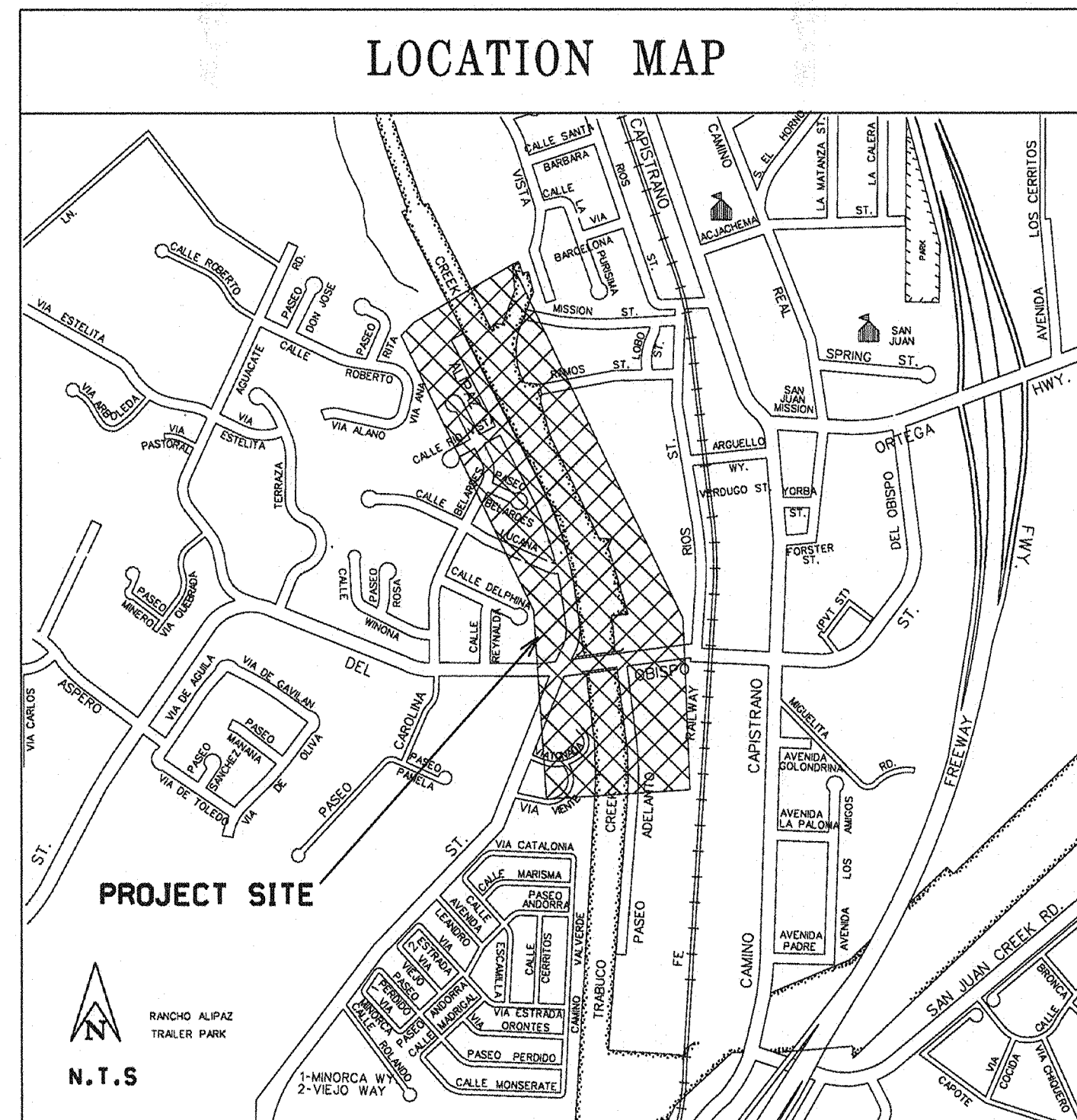


OC PUBLIC WORKS DEPARTMENT
JESS A. CARBAJAL, DIRECTOR
IGNACIO OCHOA, DIRECTOR O C ENGINEERING
RAYMOND L. MATHE, COUNTY SURVEYOR



TRABUCO CREEK CHANNEL (L02) LEVEE PROTECTION- PHASE 8

FROM STATION 41+00 - 63+00



SENIOR LAND SURVEYOR'S CERTIFICATION

This map correctly represents a survey made by me or under my direction in conformance with the requirements of the Professional Land Surveyor's Act; this 27 day of JANUARY, 2010.

JAMES R. ESTEP IV
Senior Land Surveyor



DEPUTY COUNTY SURVEYOR'S STATEMENT

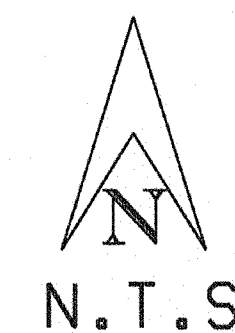
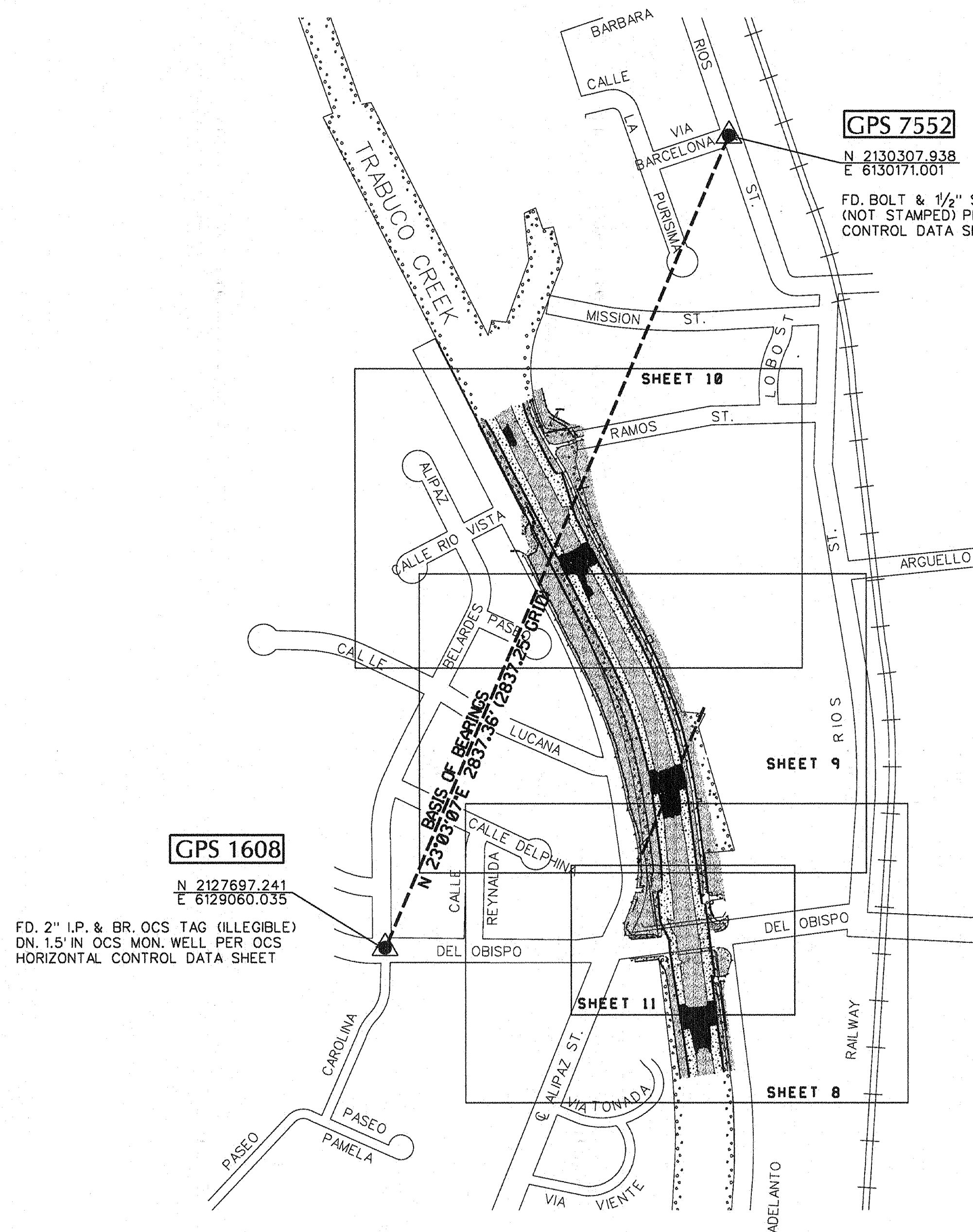
This map has been examined in accordance with the Professional Land Surveyor's Act this 27 day of JANUARY, 2010.

Craig S. Wehrman
Deputy County Surveyor



US Survey Foot

O.C.P.W. / Geomatics / LIS Division
Field Survey Section
Topographic Mapping Unit



BASIS OF STATIONING

STATIONING SHOWN HEREON IS BASED ON THE N'LY CONTINUATION OF THE PREVIOUS TOPOGRAPHIC MAP PER SURVEY FILE NO. 067PW-FL550014 WHICH WAS BASED ON O.C.F.C.D. SAN JUAN CREEK CHANNEL PLAN DWG. NO. L01-101-1-A, SHEET 4 OF 14, HOLDING STATION 110+33.41 FOR SAN JUAN CREEK AND STATION 0+00 FOR TRABUCO CREEK AT THE POINT WHERE BOTH CENTERLINES MERGE TOGETHER.

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO.1608 AND STATION GPS NO.7552, BEING N23°03'07"E, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE VI, 1983 NORTH AMERICAN DATUM, (1991.35 EPOCH O.C.S. ADJUSTMENT).

DISTANCES SHOWN ARE GROUND. MULTIPLY GROUND DISTANCES BY 0.99995961 TO OBTAIN GRID DISTANCES.

VERTICAL DATUM

O.C.S. BM. 3LL-7-78 ELEV. = 95.919' LEVELED 1990
O.C.S. BM. F-785 ELEV. = 73.413' LEVELED 1991
NGVD 1929 (1995 O.C.S. ADJUSTMENT)

NOTES

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 RECOMMENDED PRIOR TO ANY FUTURE PROPERTY ACQUISITIONS.

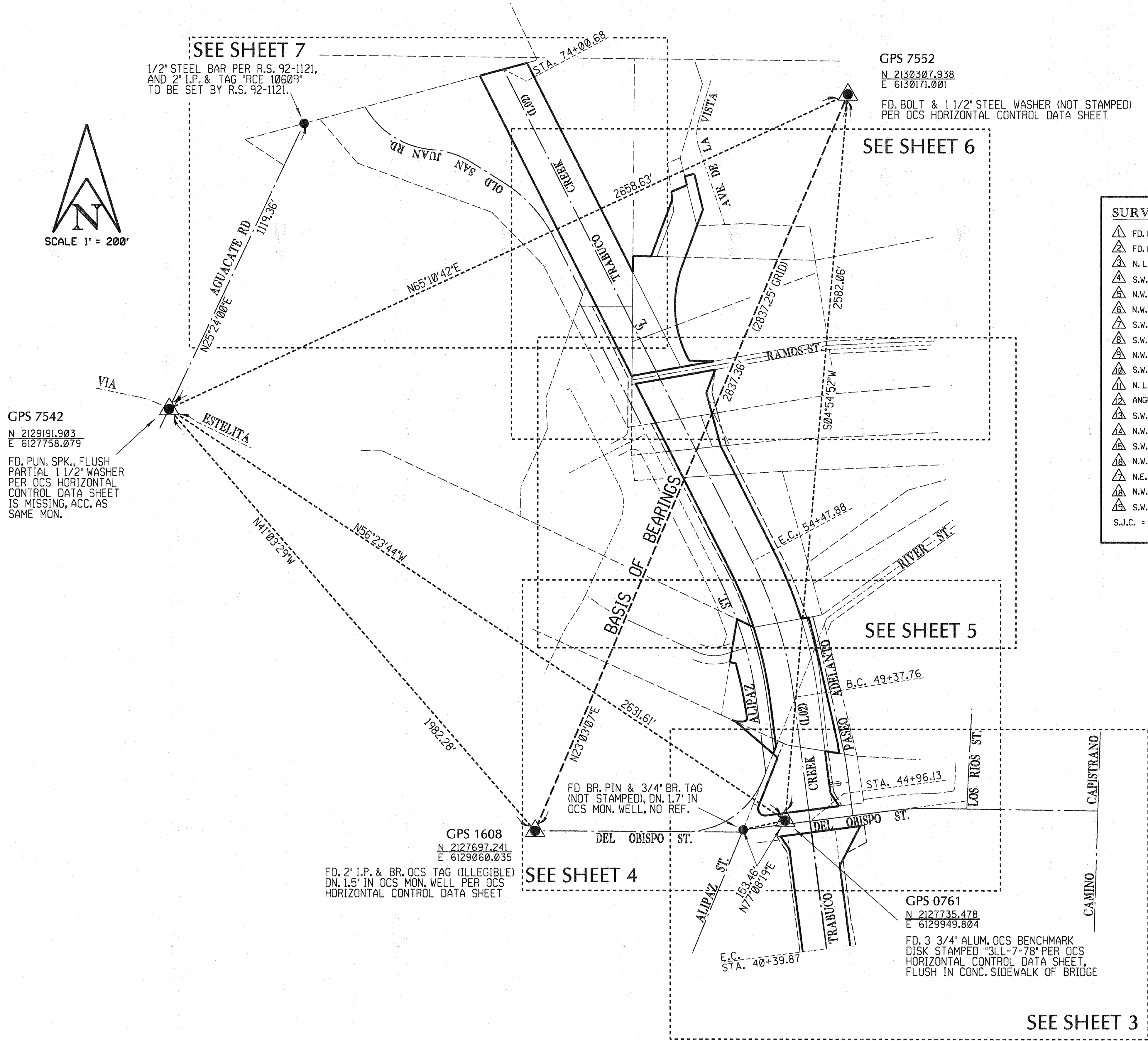
SHEET INDEX

SHEET NO.	DESCRIPTION
Sheet #1	Title Sheet
Sheet #2-7	Survey Control Schematic
Sheet #8-11	Topographic Map

OC PUBLIC WORKS DEPARTMENT GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION			
TRABUCO CREEK CHANNEL (L02) LEVEE PROTECTION, PHASE 8			
TITLE SHEET			
FROM: STATION 41+00			
TO: STATION 63+00			
DATE OF SURVEY: OCTOBER 2009		BY: G. KLINGENBERG & PARTY	
TOPOGRAPHIC MAPPING		BY: N. FIJITA	
OFFICE CHECK		BY: C. WEHRMAN	
FIELD CHECK		BY: J. ESTEP	
SCALE: N.T.S.		W.O. #EP03661	
FILE: TRABUCO.TLT		GEO #089PW-FL550013	
MARK	DATE	ITEM	REVISIONS
SHEET NO. 1 of 11			

TOPOGRAPHIC MAPPING PROJECT

CONTROL SCHEME & SHEET INDEX MAP



BASIS OF STATIONING

STATIONING SHOWN HEREON IS BASED ON THE N'LY CONTINUATION OF THE PREVIOUS TOPOGRAPHIC MAP PER SURVEY FILE NO. 067PW-FL550014 WHICH WAS BASED ON O.C.F.C.D. SAN JUAN CREEK CHANNEL PLAN DWG. NO. L01-101-1-A, SHEET 4 OF 14, HOLDING STATION 110+33.41 FOR SAN JUAN CREEK AND STATION 0+00 FOR TRABUCO CREEK AT THE POINT WHERE BOTH CENTERLINES MERGE TOGETHER.

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 1608 AND STATION GPS NO. 7552, BEING N23°03'07"E, PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NORTH AMERICAN DATUM (1991.35 EPOCH, O.C.S. GPS ADJUSTMENT).

ALL DISTANCES SHOWN ARE GROUND, UNLESS OTHERWISE NOTED. MULTIPLY A GROUND DISTANCE BY 0.99995961 TO OBTAIN A GRID DISTANCE.

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

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.

FOUND MONUMENT AS NOTED

SURVEYOR NOTES:

- △ FD. NOTHING, EST. AS THE NW COR. OF LOT 51, TR. 103, M.M. 11/29-33
- △ FD. NOTHING, EST. AS THE SW COR. OF LOT 51, TR. 103, M.M. 11/29-33
- △ N. LINE LOT 12, BLK. 2, S.J.C., M.R.L.A. 3/120 PER TR. 103, M.M. 11/29-33
- △ S.W. COR. LOT 56, TR. 103, M.M. 11/29-33
- △ N.W. COR. LOT 60, TR. 103, M.M. 11/29-33
- △ N.W. COR. LOT 3, BLK. 1, S.J.C., M.R.L.A. 3/120
- △ S.W. COR. LOT 4, BLK. 1, S.J.C., M.R.L.A. 3/120
- △ S.W. COR. LOT 50, TR. 103, M.M. 11/29-33
- △ N.W. COR. LOT 52, TR. 103, M.M. 11/29-33
- △ S.W. COR. LOT 52, TR. 103, M.M. 11/29-33
- △ N. LINE LOT 11, BLK. 2, S.J.C., M.R.L.A. 3/120 PER TR. 103, M.M. 11/29-33
- △ ANGLE POINT IN NORTH LINE LOT 60, TR. 103, M.M. 11/29-33
- △ S.W. COR. LOT 55, TR. 103, M.M. 11/29-33
- △ N.W. COR. LOT 53, TR. 103, M.M. 11/29-33
- △ S.W. COR. LOT 2, BLK. 2, S.J.C., M.R.L.A. 3/120 PER TR. 103, M.M. 11/29-33
- △ N.W. COR. LOT 5, BLK. 1, S.J.C., M.R.L.A. 3/120 PER TR. 103, M.M. 11/29-33
- △ N.E. COR. PCL. 82, R.S.B. 2/31-37
- △ N.W. COR. PCL. 82, R.S.B. 2/31-37
- △ S.W. COR. PCL. 83, R.S.B. 2/31-37

S.J.C. = SAN JUAN CAPISTRANO TRACT, M.R.L.A. 3/120-125
O.C. REFERENCE NO. = L.A. BOOK 1/25-30

RECORD REFERENCES

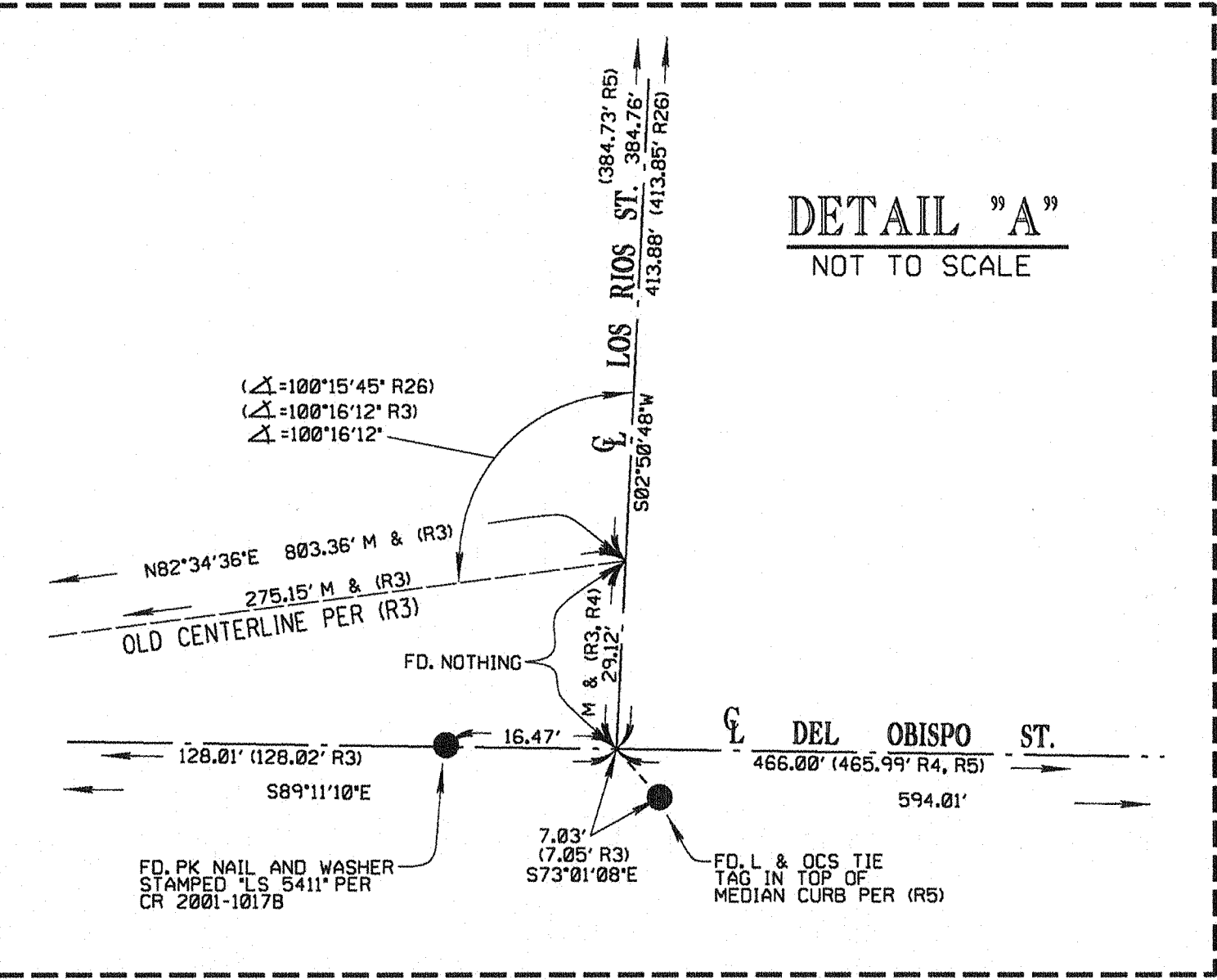
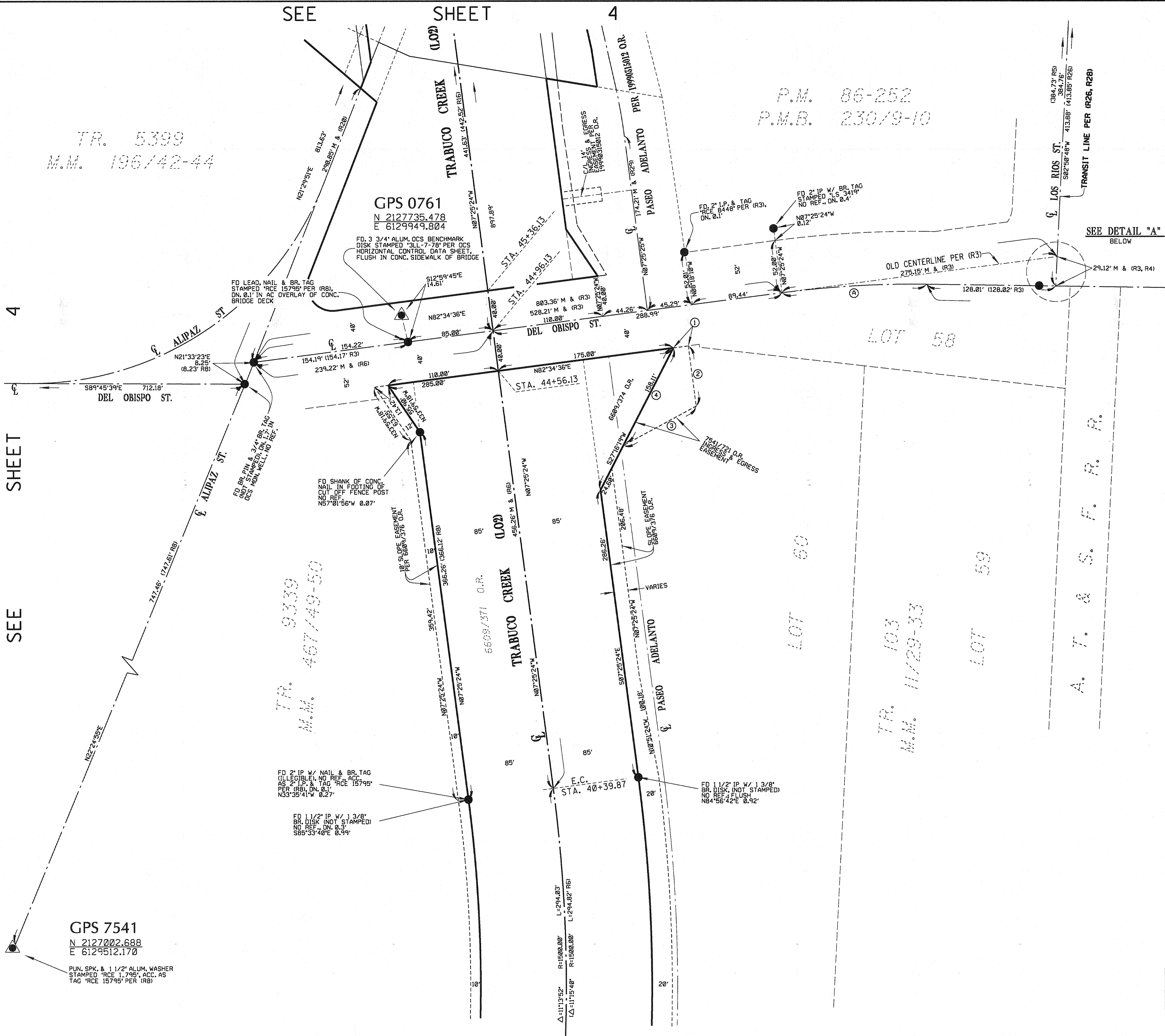
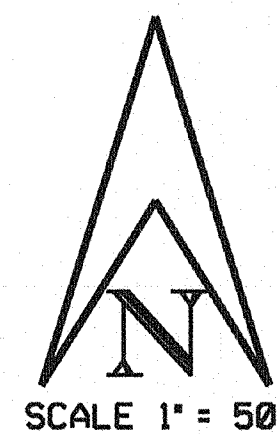
(R1) = PER R.S. 92-1021, R.S.B. 146/28-29
(R2) = PER RS 93-1022, R.S.B. 144/37-49
(R3) = PER P.M. 86-252, P.M.B. 230/9-10
(R4) = PER R.S. 79-1109, R.S.B. 100/35-39
(R5) = PER O.C.S. ALIGNMENT NOTES A/8-8, 1065-1069
(R6) = PER 6609/371 O.R.
(R7) = PER P.M. 92-123, P.M.B. 295/31-32
(R8) = PER TR. 9339, M.M. 467/49-50
(R9) = PER 6609/379 O.R.
(R10) = PER TR. 7196, M.M. 339/17-21
(R11) = PER R.S.B. 84/33-34
(R12) = PER 838/149 O.R.
(R13) = PER R.S. 2002-1069, R.S.B. 191/42-45
(R14) = PER TR. 103, M.M. 11/29-33
(R15) = PER 6232/621 O.R.
(R16) = PER 6289/887 O.R.
(R17) = PER 6232/616 O.R.
(R18) = PER 6289/897 O.R.
(R19) = PER 116/20 O.R.
(R20) = PER TR. 5399, M.M. 186/42-44
(R21) = PER TR. 7155, M.M. 299/11-12
(R22) = PER TR. 6169, M.M. 244/19-21
(R23) = PER TR. 14379, M.M. 774/40-48
(R24) = PER P.M. 89-313, P.M.B. 251/25-26
(R25) = PER P.M.B. 50/1
(R26) = PER O.C.T.B. 142/15-39
(R27) = PER R.S.B. 47/11
(R28) = PER O.C.S. ALIGNMENT NOTES A/8-8, 1-11
(R29) = PER 19990212358 O.R.
(R30) = PER 6325/57 O.R.
(R31) = PER TR. 5675, M.M. 205/30-31
(R32) = PER 9831/303 O.R.
(R33) = PER 6490/314 O.R.

US Survey Foot

OC Public Works / Geomatics / LIS Division
Boundary Section
Boundary Analysis & Computations Unit

OC PUBLIC WORKS DEPARTMENT			
GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION			
TRABUCO CREEK CHANNEL (L02)			
LEVEE PROTECTION, PHASE 8			
SURVEY CONTROL SCHEMATIC			
FROM: STATION 41+00			
TO: STATION 63+00			
DATE OF SURVEY: OCTOBER 2009		BY: B. KLINGENBERG & PARTY	
ALIGNMENT ANALYSIS		BY: R. FOLEMAN	
OFFICE CHECK		BY: S. LEY	
FIELD CHECK		BY: J. ESTEP	
SCALE: 1" = 50'		W.D. *EF03661	
FILE: TRABUCO.2.SCS		DEO *089PW-FL550013	
MARK	DATE	ITEM	SHEET NO.
		REVISIONS	2 of 11

SEE SHEET 2 FOR BASIS OF BEARINGS, DATUM STATEMENT, MONUMENT NOTES, SURVEYOR NOTES, AND RECORD REFERENCES.



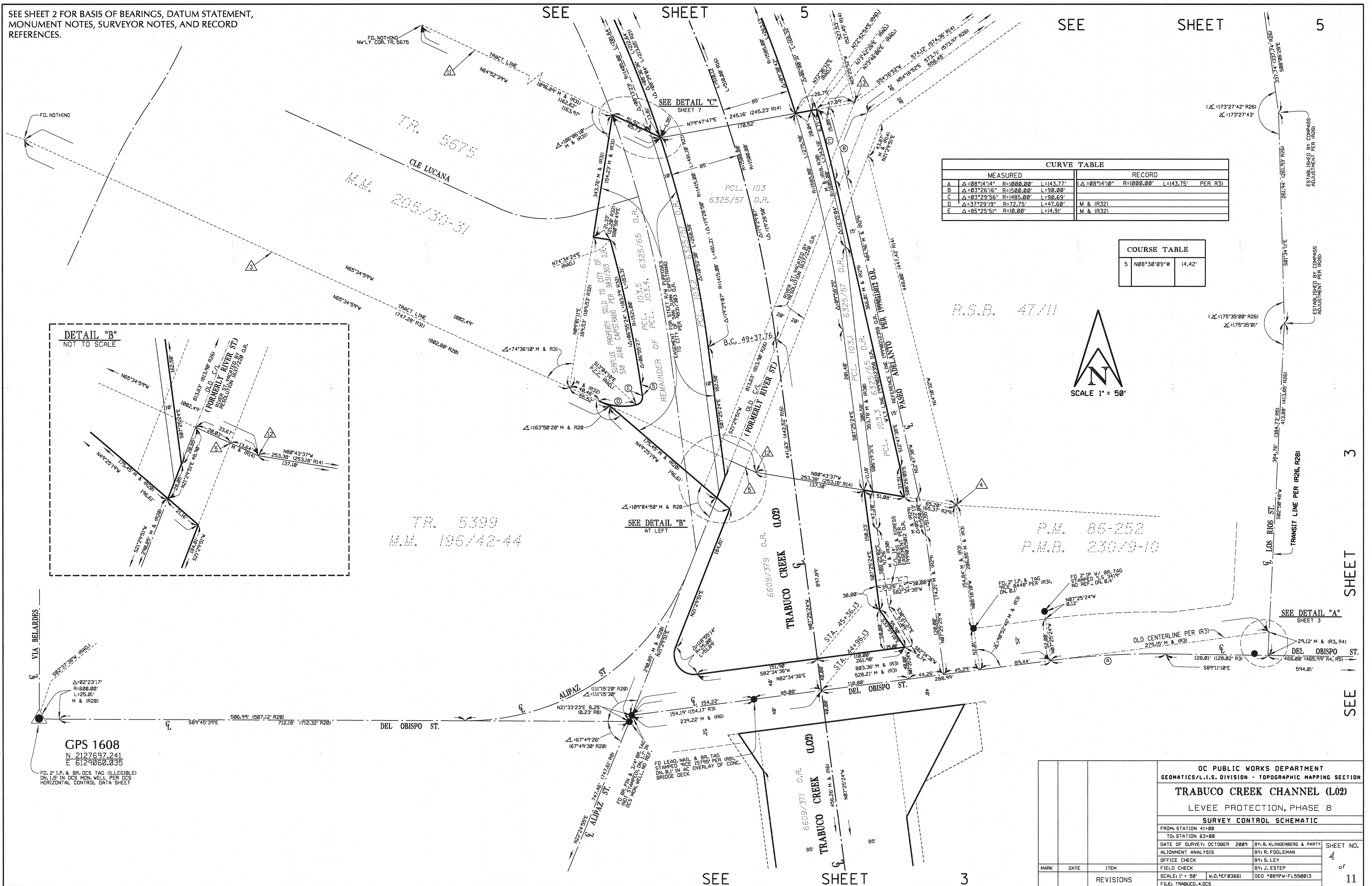
COURSE TABLE		
1	N82°34'36"E	15.00'
2	S07°25'24"E	60.00'
3	S61°43'20"W	92.17'
4	N27°16'19"E	108.56'

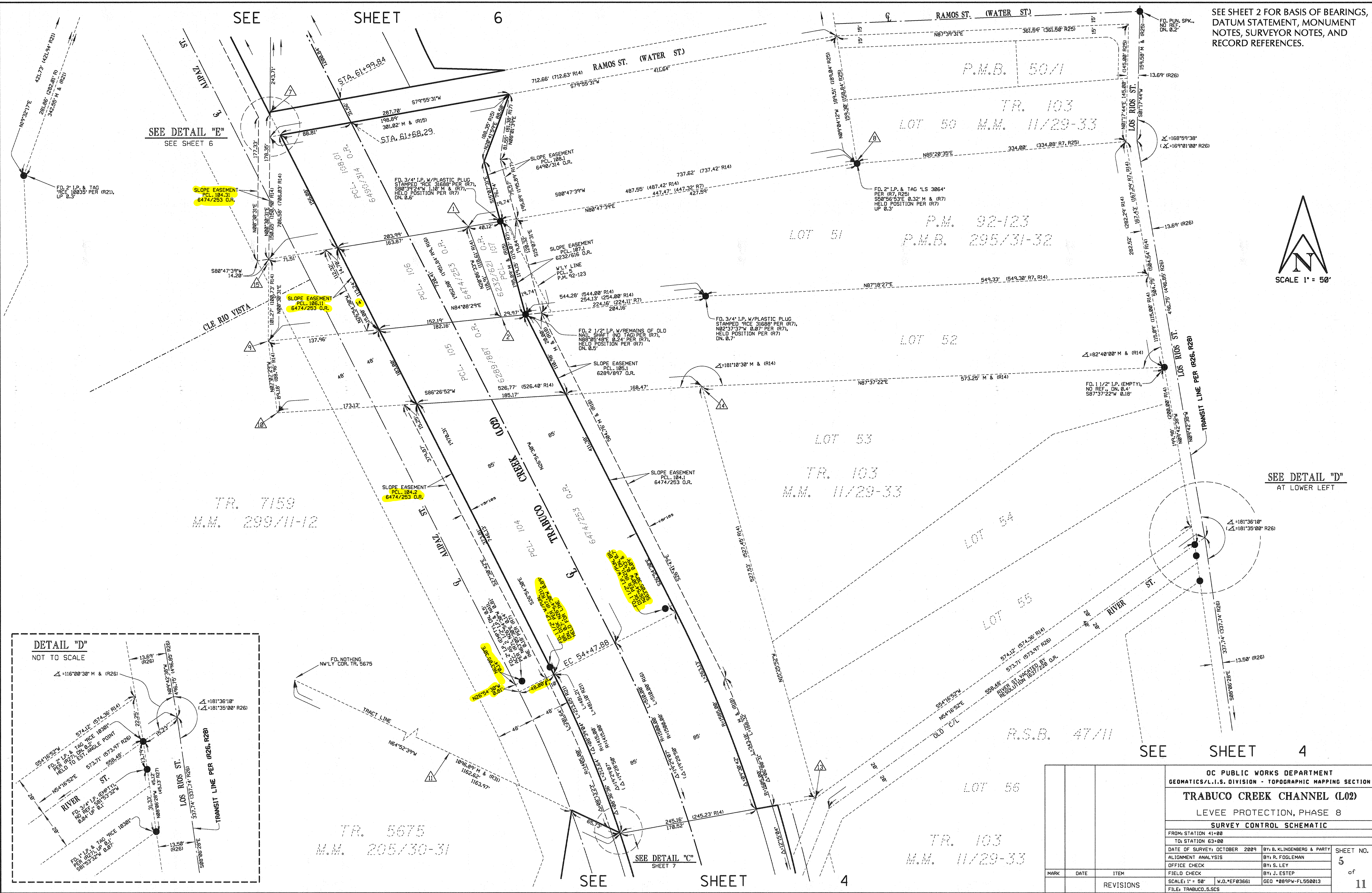
CURVE TABLE		
MEASURED		RECORD
A	$\Delta = 08^\circ 14' 14''$ R=1000.00' L=143.77'	$\Delta = 08^\circ 14' 10''$ R=1000.00' L=143.75' PER R3)

			OC PUBLIC WORKS DEPARTMENT				
			GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION				
			TRABUCO CREEK CHANNEL (L02)				
			LEVEE PROTECTION, PHASE 8				
			SURVEY CONTROL SCHEMATIC				
			FROM: STATION 41+00				
			TO: STATION 63+00				
			DATE OF SURVEY: OCTOBER 2009		BY: B. KLINGENBERG & PARTY		SHEET NO. 3 of 11
			ALIGNMENT ANALYSIS		BY: R. FOGLEMAN		
			OFFICE CHECK		BY: S. LEY		
FIELD CHECK		BY: J. ESTEP					
SCALE: 1" = 50'		W.G.*EF03661					
MARK	DATE	ITEM	GEO *089PW-FL550013				
REVISIONS			EULR. TRABUCO 3.SCS				

SEE TOPO MAP FOR SAN JUAN CREEK CHANNEL SURVEY FILE NO. 067PW-FL550014 FOR CONTINUATION SOUTHERLY

SEE SHEET 2 FOR BASIS OF BEARINGS, DATUM STATEMENT,
MONUMENT NOTES, SURVEYOR NOTES, AND RECORD
REFERENCES.





SEE SHEET 2 FOR BASIS OF BEARINGS, DATUM STATEMENT, MONUMENT NOTES, SURVEYOR NOTES, AND RECORD REFERENCES.



SEE DETAIL "D" AT LOWER LEFT

SEE SHEET 4

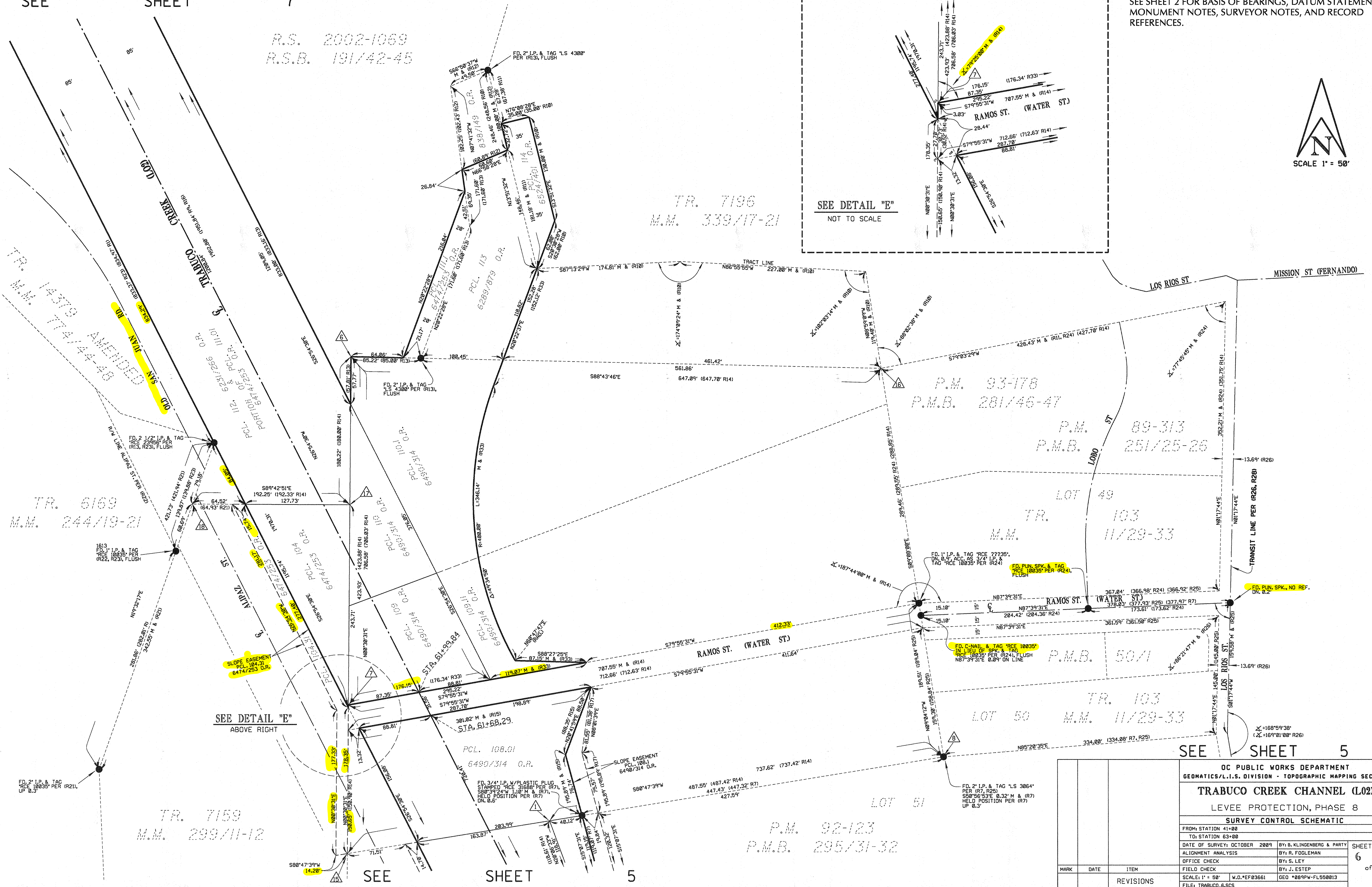
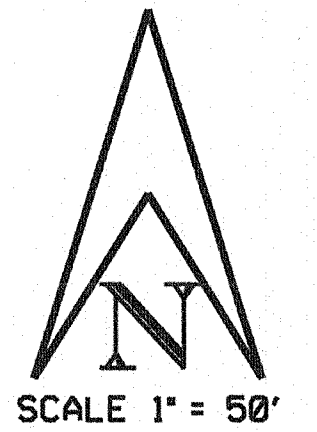
SEE DETAIL "C" SHEET 7

OC PUBLIC WORKS DEPARTMENT		
GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION		
TRABUCO CREEK CHANNEL (L02)		
LEVEE PROTECTION, PHASE 8		
SURVEY CONTROL SCHEMATIC		
FROM: STATION 41+00		
TO: STATION 63+00		
DATE OF SURVEY: OCTOBER 2009		
BY: B. KLINGENBERG & PARTY		
ALIGNMENT ANALYSIS		
OFFICE CHECK		
FIELD CHECK		
SCALE: 1" = 50'		
FILE: TRABUCO.LSCS		
SHEET NO. 5 of 11		

SEE

SHEET

7

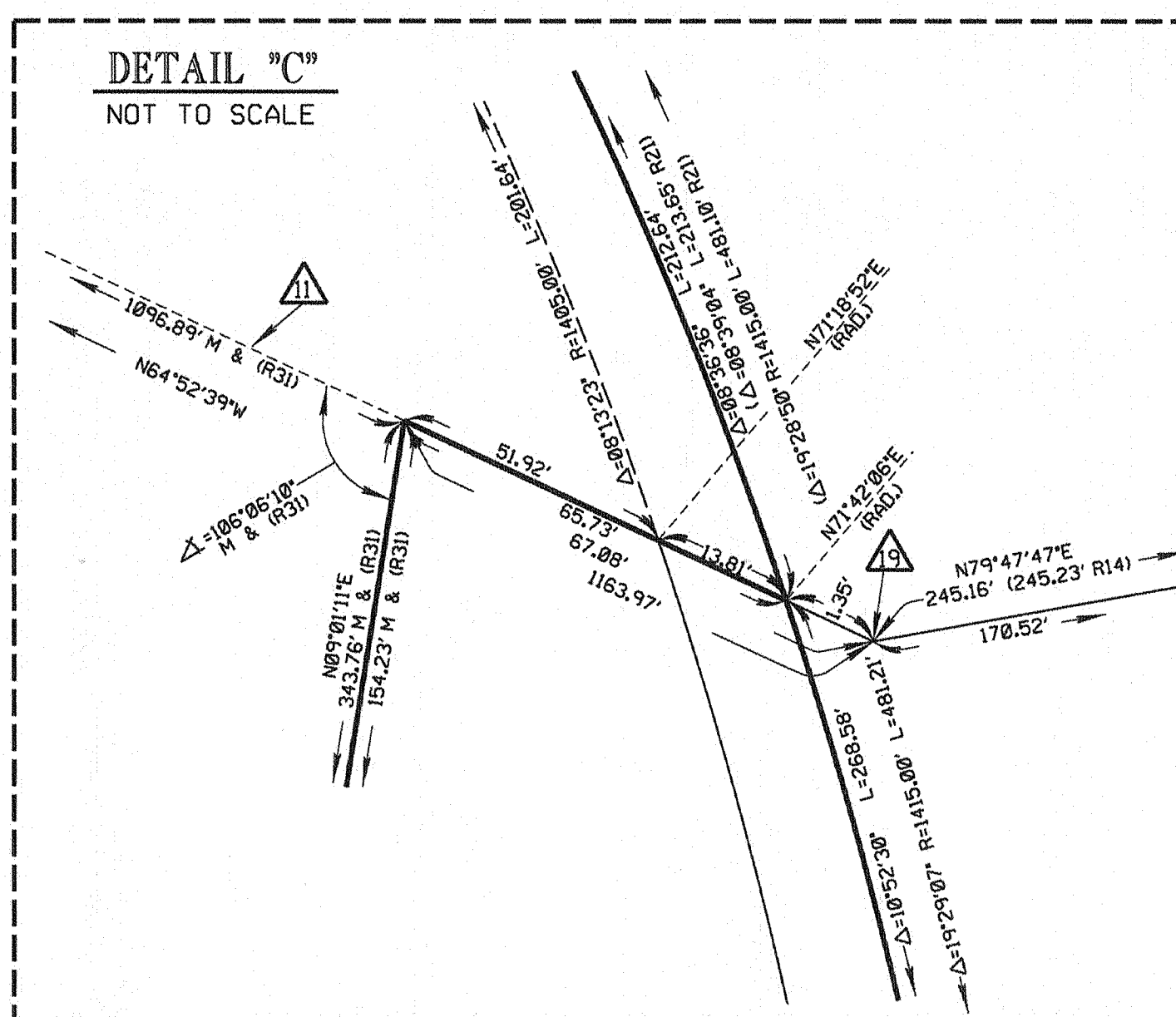
R.S. 2002-1069
R.S.B. 191/42-45TR. 7196
M.M. 339/17-21SEE DETAIL "E"
NOT TO SCALESEE SHEET 2 FOR BASIS OF BEARINGS, DATUM STATEMENT,
MONUMENT NOTES, SURVEYOR NOTES, AND RECORD
REFERENCES.

SEE SHEET 5

OC PUBLIC WORKS DEPARTMENT	
GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION	
TRABUCO CREEK CHANNEL (L02)	
LEVEE PROTECTION, PHASE 8	
SURVEY CONTROL SCHEMATIC	
FROM: STATION 41+00	TO: STATION 63+00
DATE OF SURVEY: OCTOBER 2009	BY: B. KLINGENBERG & PARTY
ALIGNMENT ANALYSIS	BY: R. FOGLEMAN
OFFICE CHECK	BY: S. LEY
FIELD CHECK	BY: J. ESTEP
SCALE: 1" = 50'	W.D. *EF03661
FILE: TRABUCO.6.SCS	GEO *089PW-FL550013

SHEET NO.
6
of
11

SCALE 1" = 50'



			U S C PUBLIC WORKS DEPARTMENT GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION		
			TRABUCO CREEK CHANNEL (L02) LEVEE PROTECTION, PHASE 8		
			SURVEY CONTROL SCHEMATIC		
			FROM: STATION 41+00 TO: STATION 63+00		
			DATE OF SURVEY: OCTOBER 2009	BY: B. KLINGENBERG & PARTY	SHEET NO 7 of 11
			ALIGNMENT ANALYSIS	BY: R. FOGLEMAN	
			OFFICE CHECK	BY: S. LEY	
			FIELD CHECK	BY: J. ESTEP	
MARK	DATE	ITEM	SCALE: 1" = 50'	W.D.#EF03661	GEO #089P-FLW550013 FILE: TRABUCO.75CS
		REVISIONS			

SEE SHEET 9

TR. 5399
M.M. 196/42-44

P.M. 86-252
P.M.B. 230/9-10

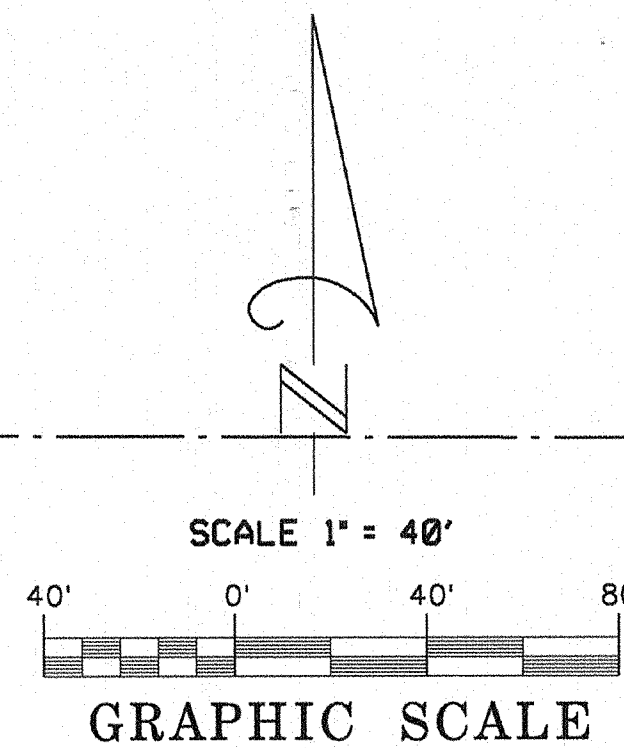
LOT 58

TR. 103
M.M. 11/29-33

LOT 60

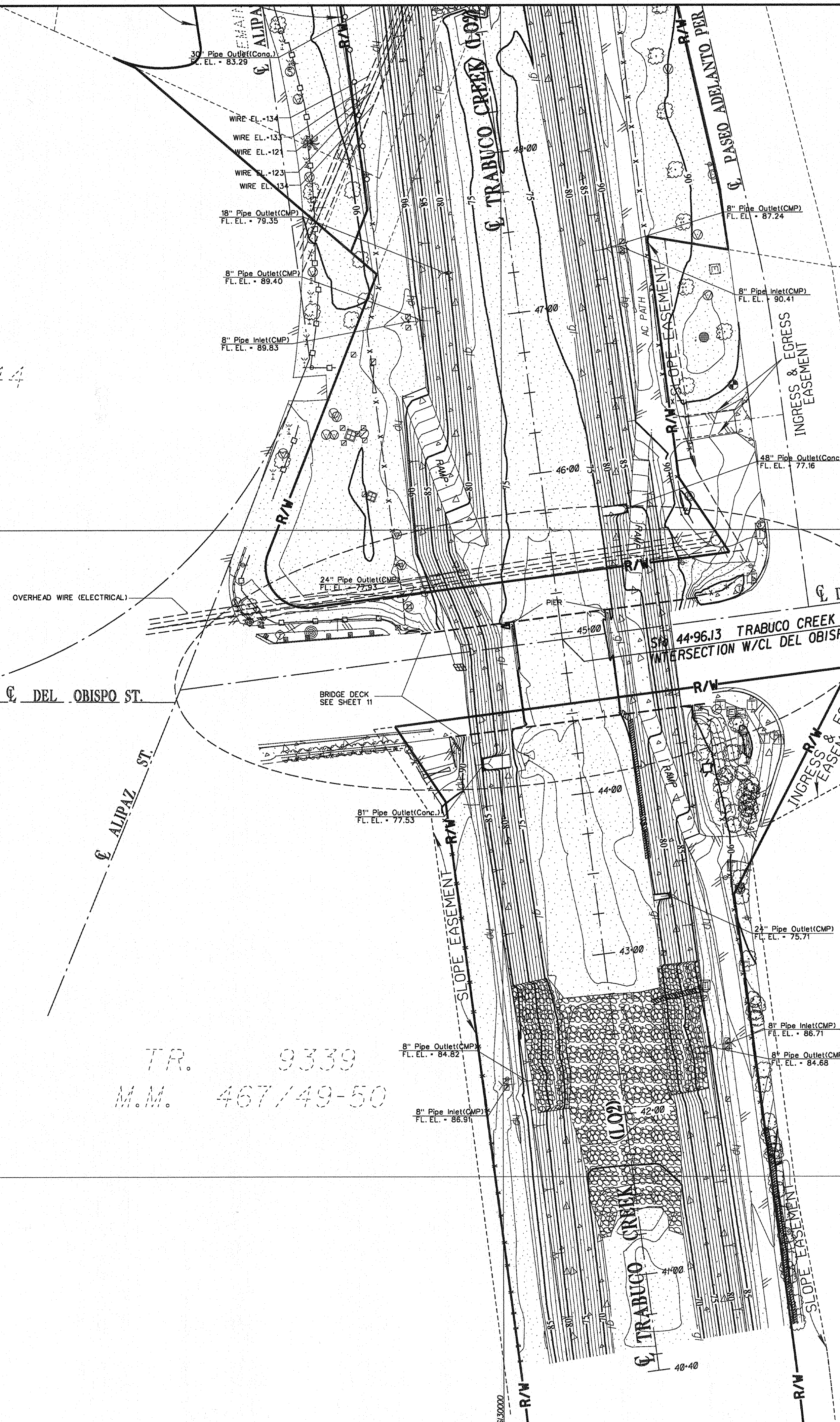
LOT 59

TR. 9339
M.M. 467/49-50



LEGEND

- | | |
|-----------------------|--------------------------|
| □ CONTROL BOX - WATER | ⊠ WATER METER |
| ● DROP INLET | ⊙ YARD LIGHT |
| ⊠ ELECTRICAL CONTROL | — FLOWLINE |
| ⊠ FIRE HYDRANT | — FENCE - WOOD |
| ⊠ GATES - DOUBLE | — FENCE - PIPE AND CABLE |
| ⊠ GATES - SINGLE | — FENCE - CHAINLINK |
| ⊠ GUY ANCHOR | — FENCE - BLOCK |
| ⊠ GUY POLE - WOOD | — GUARD RAIL - STEEL |
| ⊠ INLET/OUTLET PIPE | — BUILDING OUTLINE |
| ⊠ MONITOR WELL | — PLANTER - UNKNOWN |
| ⊠ PULL BOX - TRAFFIC | — EDGE OF A.C. |
| ⊠ POST | — HINGE POINT DIRT |
| ⊠ SIGN | — GRADELINE DIRT |
| ⊠ SIGN BOARD | — EDGE - CHANNEL LINING |
| ⊠ SEWER MANHOLE | ⊠ BRUSH/SHRUB |
| ⊠ STORM DRAIN MANHOLE | ⊠ TREE |
| ⊠ SPRINKLER | ⊠ CONCRETE AREA |
| ⊠ TRAFFIC SIGNAL | ⊠ DIRT AREA |
| ⊠ UTILITY POLE | ⊠ ROCK AREA |
| ⊠ VALVE (ANY TYPE) | |
| ⊠ VENT PIPE | |
| ⊠ VAULT UNKNOWN | |



OC PUBLIC WORKS DEPARTMENT			
GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION			
TRABUCO CREEK CHANNEL (L02)			
LEVEE PROTECTION, PHASE 8			
TOPOGRAPHIC MAP			
FROM: STATION 41+00			
TO: STATION 63+00			
DATE OF SURVEY: OCTOBER 2009			
BY: B. KLINGENBERG & PARTY			
TOPOGRAPHIC MAPPING			
BY: N. FIFITA			
OFFICE CHECK			
BY: C. WEHRMAN			
FIELD CHECK			
BY: J. ESTEP			
SCALE: 1" = 40'			
W.D. *EF83661			
GEO *089PW-FL550013			
FILE: TRABUCO.DGN			
REFS: TRABUCO.CON, .PAT, .ROW, .TOP, .VAL			
MARK	DATE	ITEM	
REVISIONS			

TR. 7159
M.M. 299/11-12

SEE SHEET 10 LOT 53

TR. 103
M.M. 11/29-33

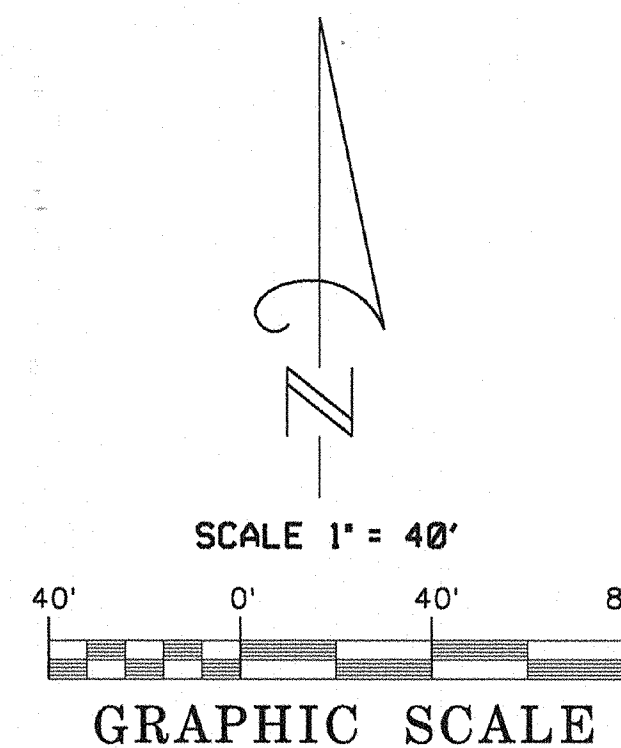
LOT 54

LOT 55

LOT 56

TR. 103
M.M. 11/29-33

R.S.B. 47/11



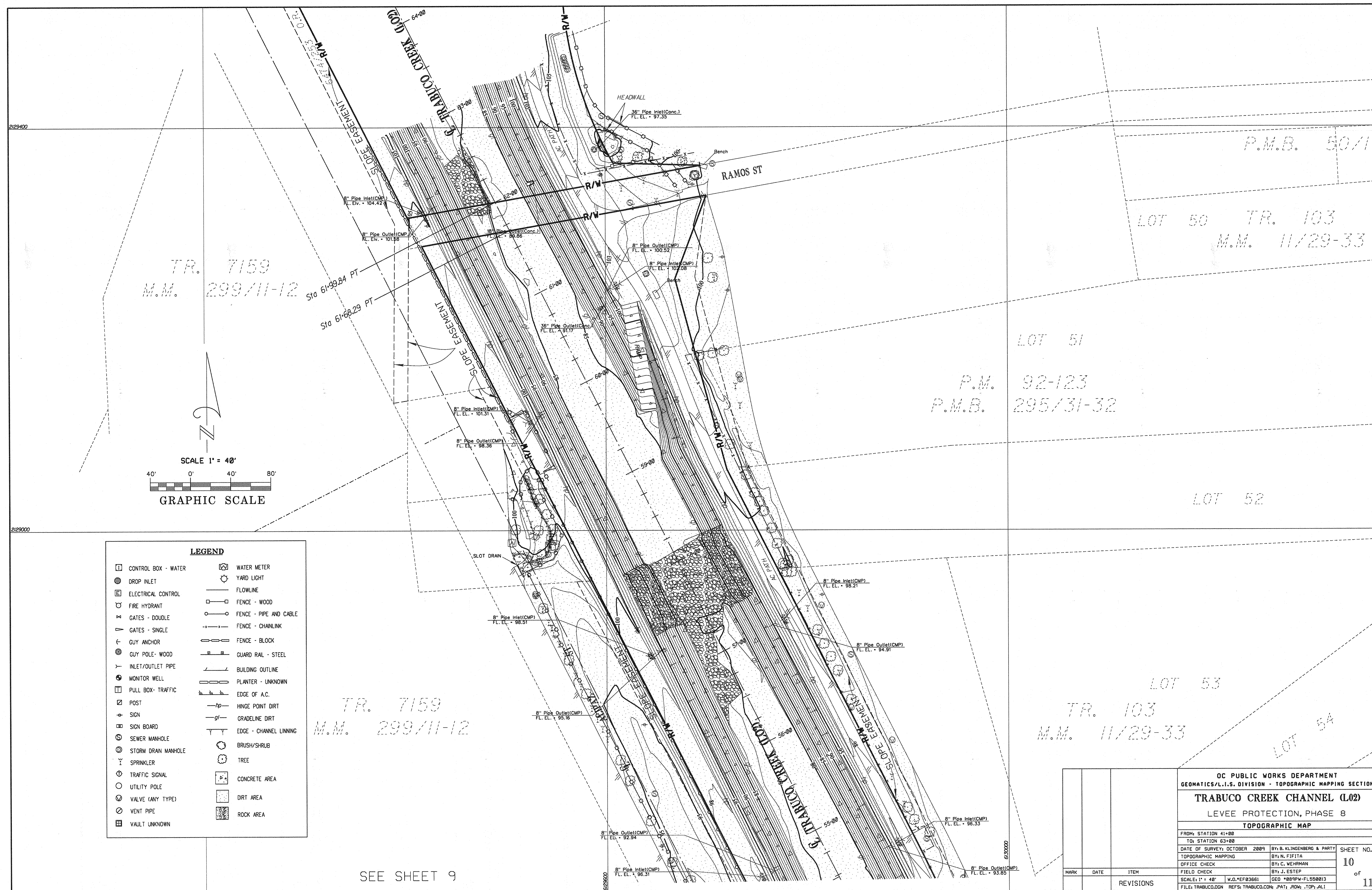
LEGEND

- | | |
|---------------------|------------------------|
| CONTROL BOX - WATER | WATER METER |
| DROP INLET | YARD LIGHT |
| ELECTRICAL CONTROL | FLOWLINE |
| FIRE HYDRANT | FENCE - WOOD |
| GATES - DOUBLE | FENCE - PIPE AND CABLE |
| GATES - SINGLE | FENCE - CHAINLINK |
| GUY ANCHOR | FENCE - BLOCK |
| GUY POLE - WOOD | GUARD RAIL - STEEL |
| INLET/OUTLET PIPE | BUILDING OUTLINE |
| MONITOR WELL | PLANTER - UNKNOWN |
| PULL BOX - TRAFFIC | EDGE OF A.C. |
| POST | HINGE POINT DIRT |
| SIGN | GRADELINE DIRT |
| SIGN BOARD | EDGE - CHANNEL LINING |
| SEWER MANHOLE | BRUSH/SHRUB |
| STORM DRAIN MANHOLE | TREE |
| SPRINKLER | CONCRETE AREA |
| TRAFFIC SIGNAL | DIRT AREA |
| UTILITY POLE | ROCK AREA |
| VALVE (ANY TYPE) | |
| VENT PIPE | |
| VAULT UNKNOWN | |

SEE SHEET 8

630000

OC PUBLIC WORKS DEPARTMENT GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION			
TRABUCO CREEK CHANNEL (L02)			
LEVEE PROTECTION, PHASE 8			
TOPOGRAPHIC MAP			
FROM: STATION 41+00 TO: STATION 63+00			
DATE OF SURVEY: OCTOBER 2009	BY: B. KLINGENBERG & PARTY	SHEET NO.	
TOPOGRAPHIC MAPPING	BY: N. FIFITA	9 of 11	
OFFICE CHECK	BY: C. WEHRMAN		
FIELD CHECK	BY: J. ESTEP	11	
SCALE: 1" = 40'	W.D. #EF03661		
FILE: TRABUCO.DGN	REFS: TRABUCO.CON, .PAT, .ROW, .TOP, .ALI		





OC PUBLIC WORKS DEPARTMENT			
GEOMATICS/L.I.S. DIVISION - TOPOGRAPHIC MAPPING SECTION			
TRABUCO CREEK CHANNEL (L02)			
LEVEE PROTECTION, PHASE 8			
TOPOGRAPHIC MAP			
FROM: STATION 41+00			
TO: STATION 63+00			
DATE OF SURVEY: OCTOBER 2009		BY: B. KLINGENBERG & PARTY	
TOPOGRAPHIC MAPPING		BY: N. FIFITA	
OFFICE CHECK		BY: C. WEHRMAN	
FIELD CHECK		BY: J. ESTEP	
SCALE: 1" = 20'		W.D. *EF03661	
FILE: TRABUCO.DGN		GEO. *089PW-FL550013	
REFS: TRABUCO.CON, .PAT, .ROW, .TOP, .ALI			
MARK	DATE	ITEM	SHEET NO.
REVISIONS			11 of 11