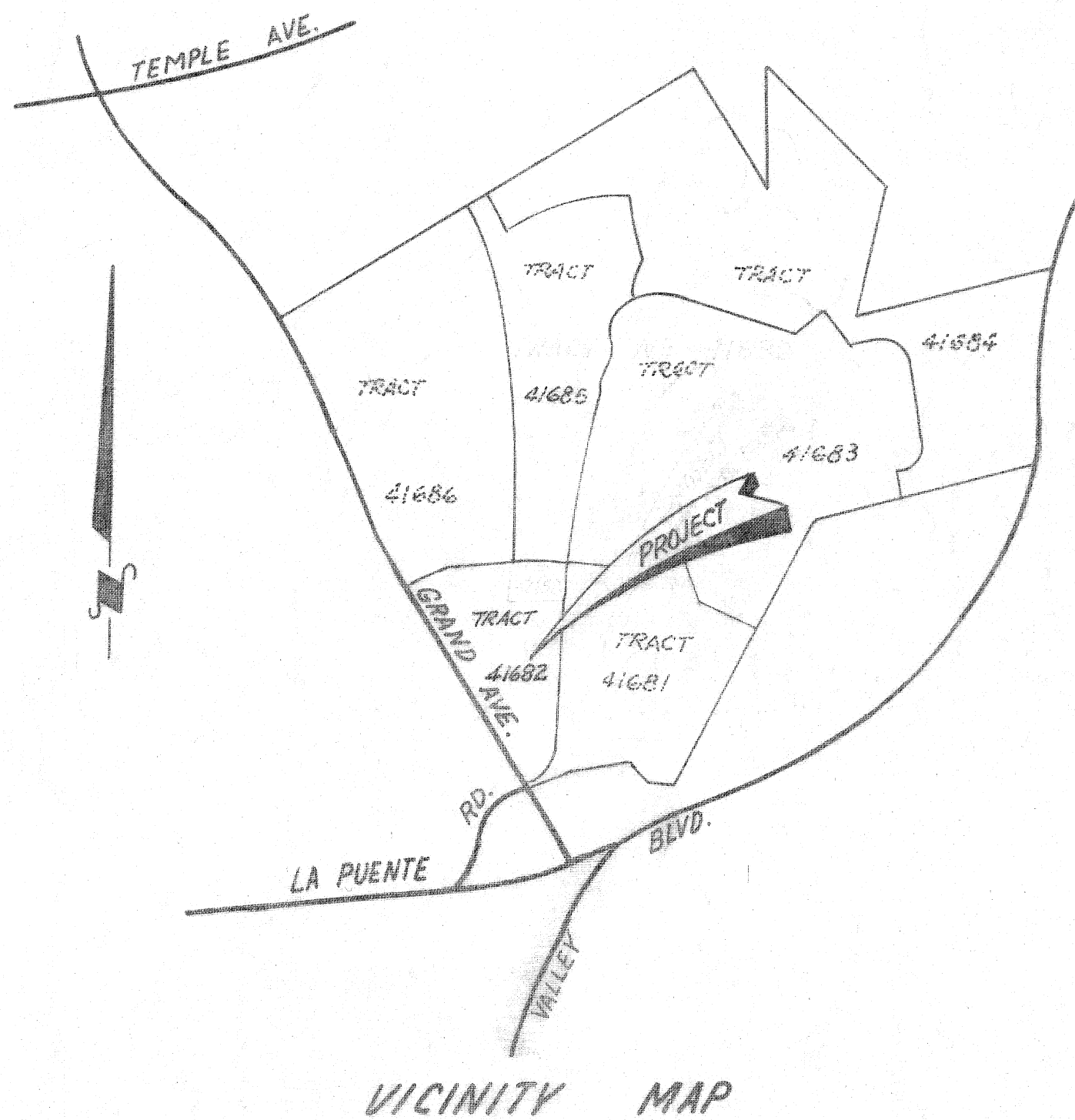
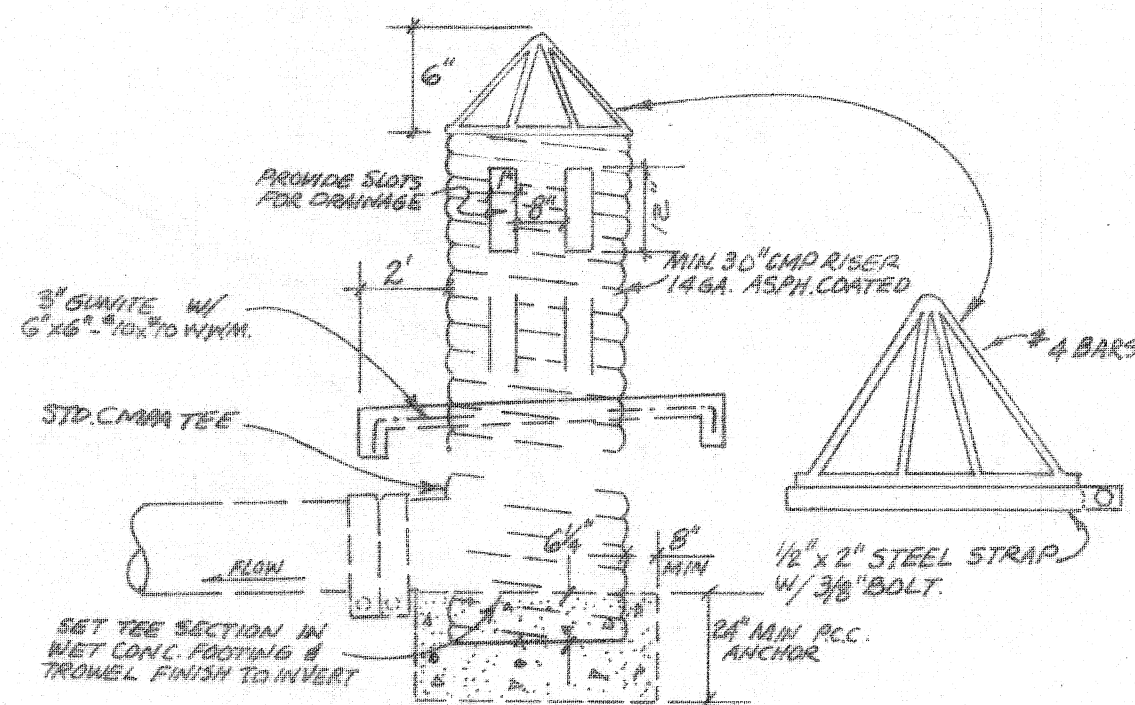
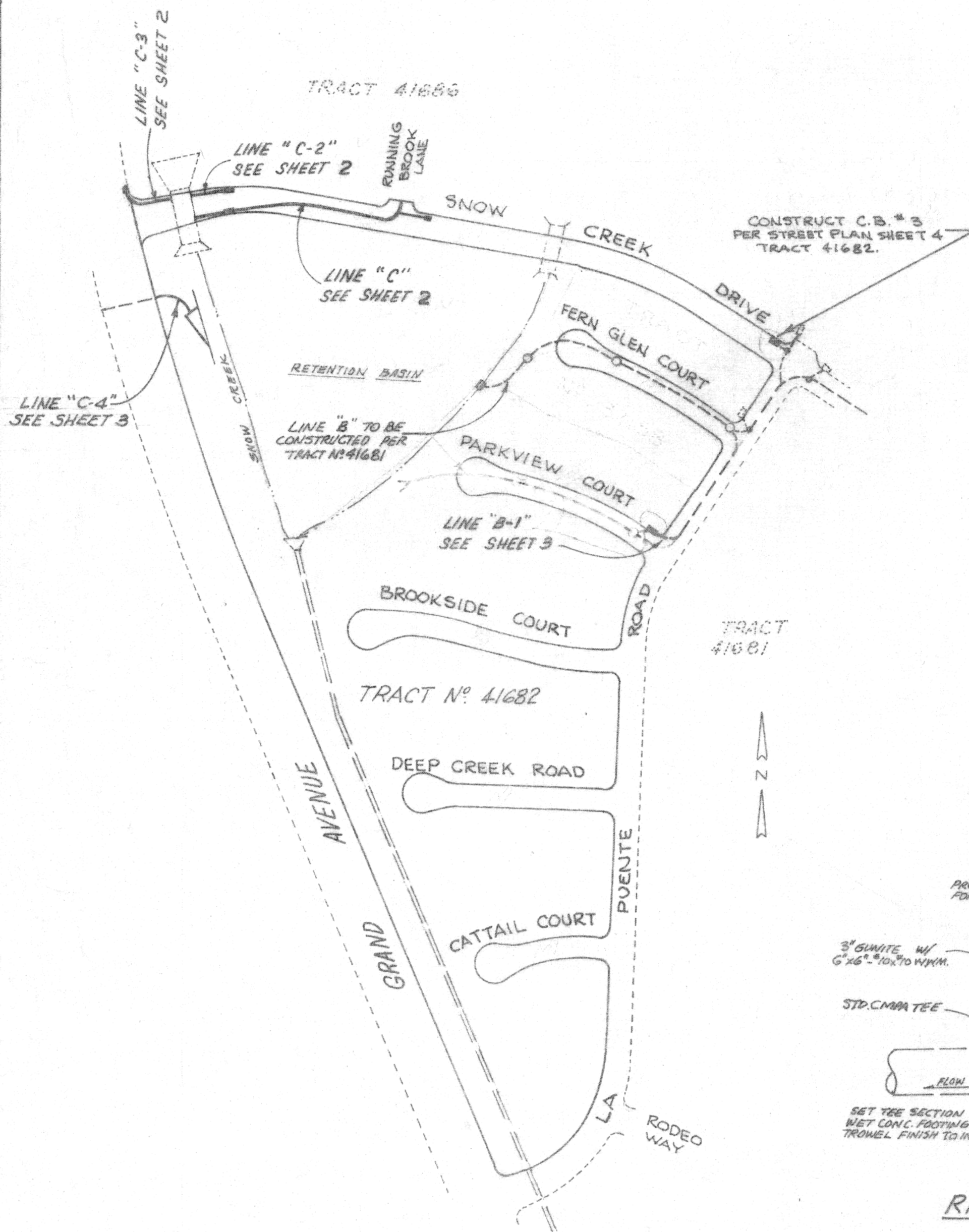


BASIS OF BEARINGS:
 N 22° 58' 05" W FOR THE CENTERLINE OF GRAND
 AVE AS SHOWN ON TRACT N° 416815 RECORDED
 IN BOOK 998 PAGES 80 THROUGH 84 INCLUSIVE
 OF MAPS, RECORDS OF LOS ANGELES COUNTY.



VICINITY MAP



RISER INVERT DETAIL

GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

- ALL PIPE LAID IN OPEN TRENCH SHALL BE BEDDED IN ACCORDANCE WITH L.A.C.F.C.D. STD. NO. 2-D177 A.J. BEDDING PER STD. D-59.
- 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER (714) 595-2275.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION AND SUPPLEMENT, 1979 EDITION, 1980 & 1981 SUPPLEMENT.
- ALL BACKFILL SHALL BE COMPACTED TO RELATIVE DENSITY OF 90%.
- ALL STATE AND LOCAL TRENCH SAFETY RULES WILL BE RIGIDLY ENFORCED.
- THE CONTRACTOR MUST MAINTAIN ALL TRAFFIC SIGNS IN AN ERECT, READILY DISCERNABLE POSITION AND FREE FROM OBSTRUCTION TO MOTORIST'S VISION, AND SHALL RESET SAME IN THE PROPER POSITION UPON COMPLETION OF CONSTRUCTION.
- EXISTING UTILITIES CROSSING THE STORM DRAIN SHALL BE SUPPORTED PER L.A.C.F.C.D. STD. 2-D173 AS DIRECTED BY THE CITY ENGINEER.
- R.C.P. SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH SECTION 207-2.6, 2.7, 2.8 AND 2.9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1979 EDITION), 1980 & 1981 SUPPLEMENT.
- THE CONTRACTOR SHALL FURNISH A LETTER OF CERTIFICATION FROM THE PIPE MANUFACTURER AS TO TEST RESULTS OF THE PIPE INSTALLED.
- ALL PIPE LENGTH SHOWN ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615- GRADE 60.
- THE ENGINEER, V.T.N., HAS INVESTIGATED ALL AVAILABLE RECORDS OF THE CITY AND OF THE UTILITY COMPANIES INVOLVED, AND ALL KNOWN SUBSTRUCTURES ARE SHOWN HEREON. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES, WHETHER OR NOT SHOWN HEREON, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES DAMAGED BY HIS OPERATION IN CONNECTION WITH THE PROSECUTION OF SAID WORK.
- THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT UP TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE CITY ENGINEER.
- ELEVATIONS ARE IN FEET ABOVE U.S.C.G.S. MEAN SEA LEVEL DATUM OF 1929.
- FINISH ALL EXPOSED EDGES W/3/4" CHAMFER.
- ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP AT SPLICES OF 30 BAR DIAMETERS.
- ALL PIPE TO BE EMBEDDED A MINIMUM OF 5 INCHES INTO HEADWALLS OR STRUCTURES.

CONSTRUCTION NOTES

- CONSTRUCT MANHOLE #1 PER L.A.C.F.C.D. STD. # 2-D102
- CONST. JCT. STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193
- CONSTRUCT INLET STRUCTURE PER DETAIL SHT. # 1
- REMOVE EXIST. HEADWALL & RIP-RAP AND JOIN R.C.P.
- CONSTRUCT CATCH BASIN #3 PER L.A.C.F.C.D. STD. # 2-D163
- CONSTRUCT CURB & GUTTER TRANSITION AND MODIFICATION PER L.A.C.F.C.D. STD. # 66-03
- CONSTRUCT 45" R.C.P. ~ 1000 D
- CONSTRUCT R.C. HEADWALL PER DETAILS ON SHEET 3.
- CONSTRUCT RIP-RAP PROTECTION PER DETAILS ON SHEET 3.
- CONSTRUCT CATCH BASIN #1 PER L.A.C.F.C.D. STD. # 2-D180.
- CONSTRUCT JUNCTION STRUCTURE #2, PER L.A.C.F.C.D. STD. # 2-D192 (C=2.40')
- CONSTRUCT JUNCTION STRUCTURE #3, PER L.A.C.F.C.D. STD. # 2-D191 (C=2.40')
- CONSTRUCT JUNCTION STRUCTURE #1 PER L.A.C.F.C.D. STD. # 2-189 (C=3.00')

QUANTITY ESTIMATE

NO.	ITEM	QUANTITY	UNIT
	45" R.C.P. — 1000 D	49	L.F.
	39" R.C.P. — 1000 D	460.69	L.F.
	21" R.C.P. — 1000 D	67.10	L.F.
	18" R.C.P. — 1000 D	86.59	L.F.
	18" R.C.P. — 1250 D	65.86	L.F.
	MANHOLE #1	1	E.A.
	24" C.M.P. T.G. GA.	50.00	L.F.
	JUNCTION STRUCTURE #4	1	E.A.
	JUNCTION STRUCTURE #2	1	E.A.
	JUNCTION STRUCTURE #3	2	E.A.
	JUNCTION STRUCTURE #1	1	E.A.
	INLET STRUCTURE (30" C.M.P. - 14 GA.)	1	E.A.
	OUTLET STRUCTURE (PER DETAIL ON SHT. 3)	1	E.A.

KEY MAP
 SCALE: 1" = 200'

NOTICE TO CONTRACTOR
 CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORKING ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

BENCHMARK

B.M. C.S. 1781 ELEV. 617.01
 24 FT. N. & E. LA PUENTES RD. + 0.2 MI.
 W/O GRAND AVE.
 CORNER QUAD. 1515

IF CONSTRUCTION OF IMPROVEMENTS AS SHOWN HEREON ARE NOT COMMENCED WITHIN 18 MONTHS OF APPROVAL DATE THESE PLANS ARE SUBJECT TO REVIEW BY THE CITY

APPROVED BY:
 CITY OF WALNUT
 CITY ENGINEER

Ronald L. Kranzer
 RONALD L. KRANZER R.C.E. DATE

PLANS PREPARED BY:
 V.T.N. CONSOLIDATED INC.
 2301 CAMPUS DRIVE
 IRVINE, CA 92713 (714) 851-5200

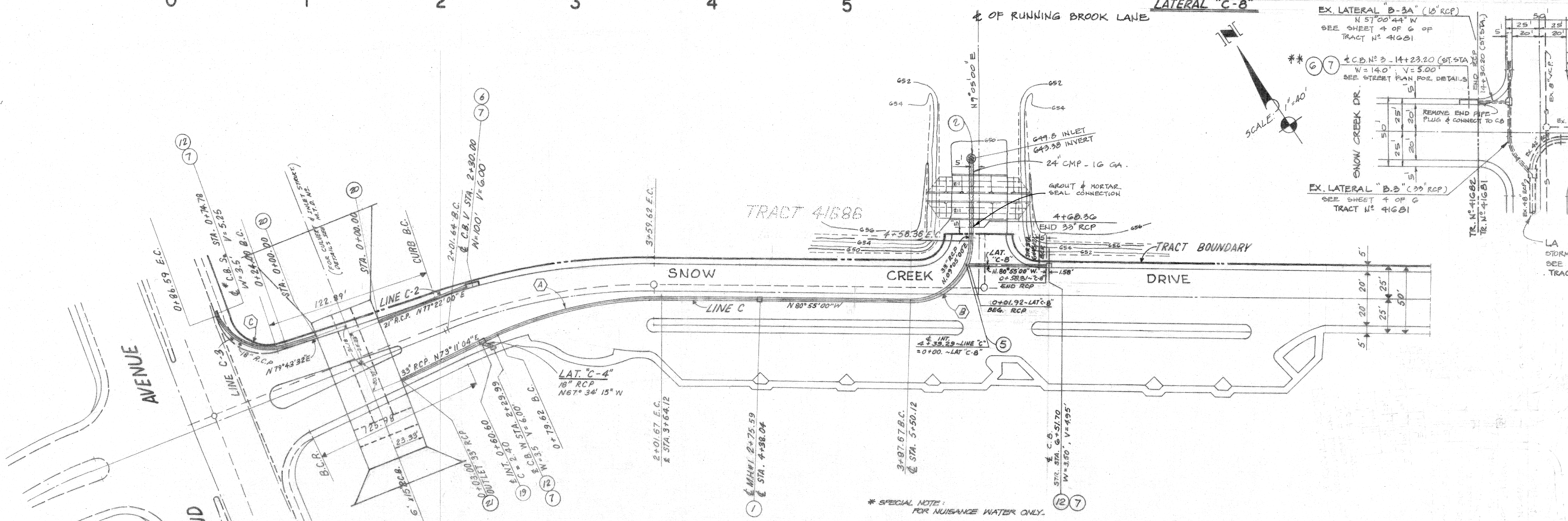
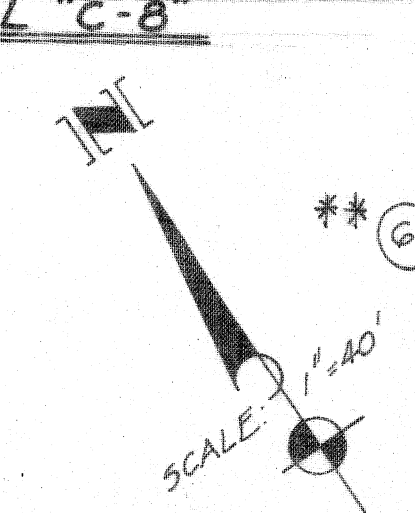
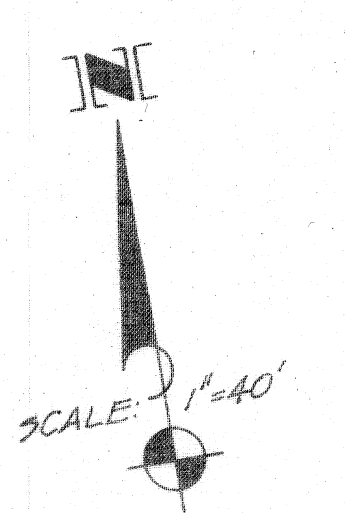
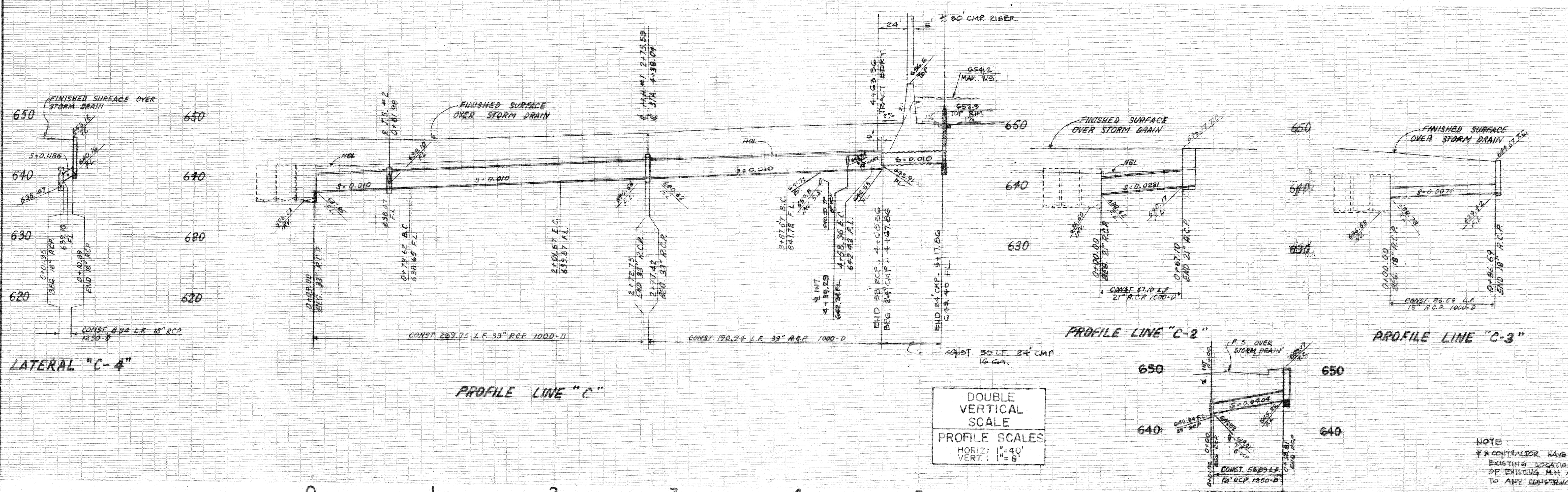
Signature: [Signature]
 CIVIL ENGINEER R.C.E. NO.

CITY OF WALNUT

TRACT NO 41682
 STORM DRAIN

SHEET
 1
 OF
 3

135A



CONSTRUCTION NOTES

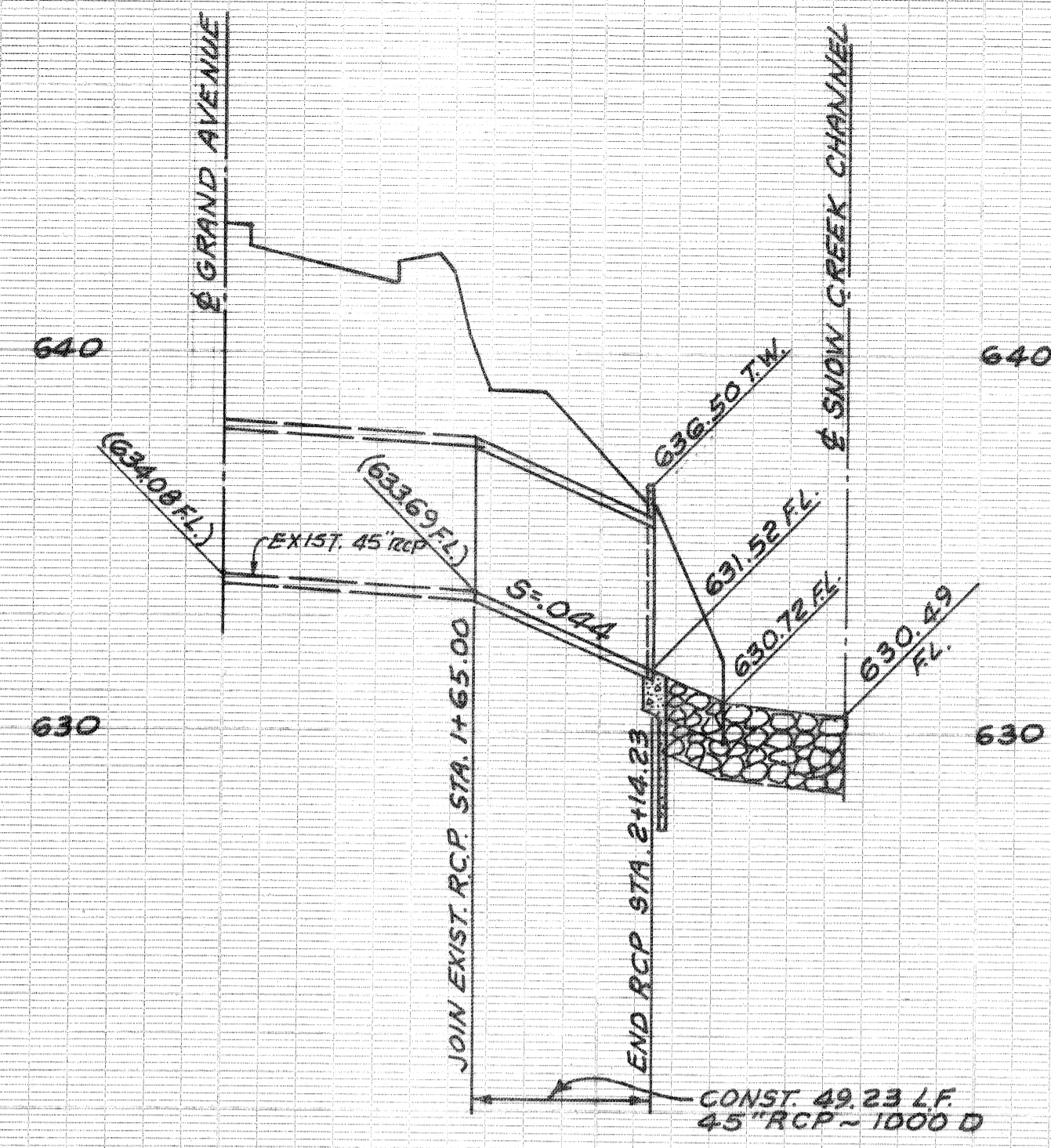
- ⑤ - CONST. JCT. STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193
- ④ - DELETED
- ② - CONST. INLET STRUCTURE PER DETAIL ON SHEET 1
- ②1 - CONSTRUCT JUNCTION STRUCTURE #1, PER L.A.C.F.C.D. STD. DHB #2-D193 (C=3.0')
- ②0 - CONSTRUCT JUNCTION STRUCTURE #3, PER L.A.C.F.C.D. STD. DHB #2-D191
- ① - CONSTRUCT MANHOLE #1 PER L.A.C.F.C.D. STD. # 2-D102
- ⑥ - CONSTRUCT CATCH BASIN #3 PER L.A.C.F.C.D. STD. # 2-D163
- ⑦ - CONSTRUCT CURB & GUTTER TRANSITION & MODIFICATION PER L.A.C.F.C.D. STD. # 66-03
- ⑫ - CONSTRUCT CATCH BASIN #1 PER L.A.C.F.C.D. STD. # 2-D-160.
- ⑬ - CONSTRUCT JUNCTION STRUCTURE #2 PER L.A.C.F.C.D. STD. # 2-D112 (C=2.4')

STORM DRAIN CURVE DATA				
I.D.	R	L	T	
①	79° 41' 44"	45'	62.59'	37.56'
②	90° 00' 00"	45'	70.69'	45.00'
③	25° 53' 56"	270'	122.05'	62.08'

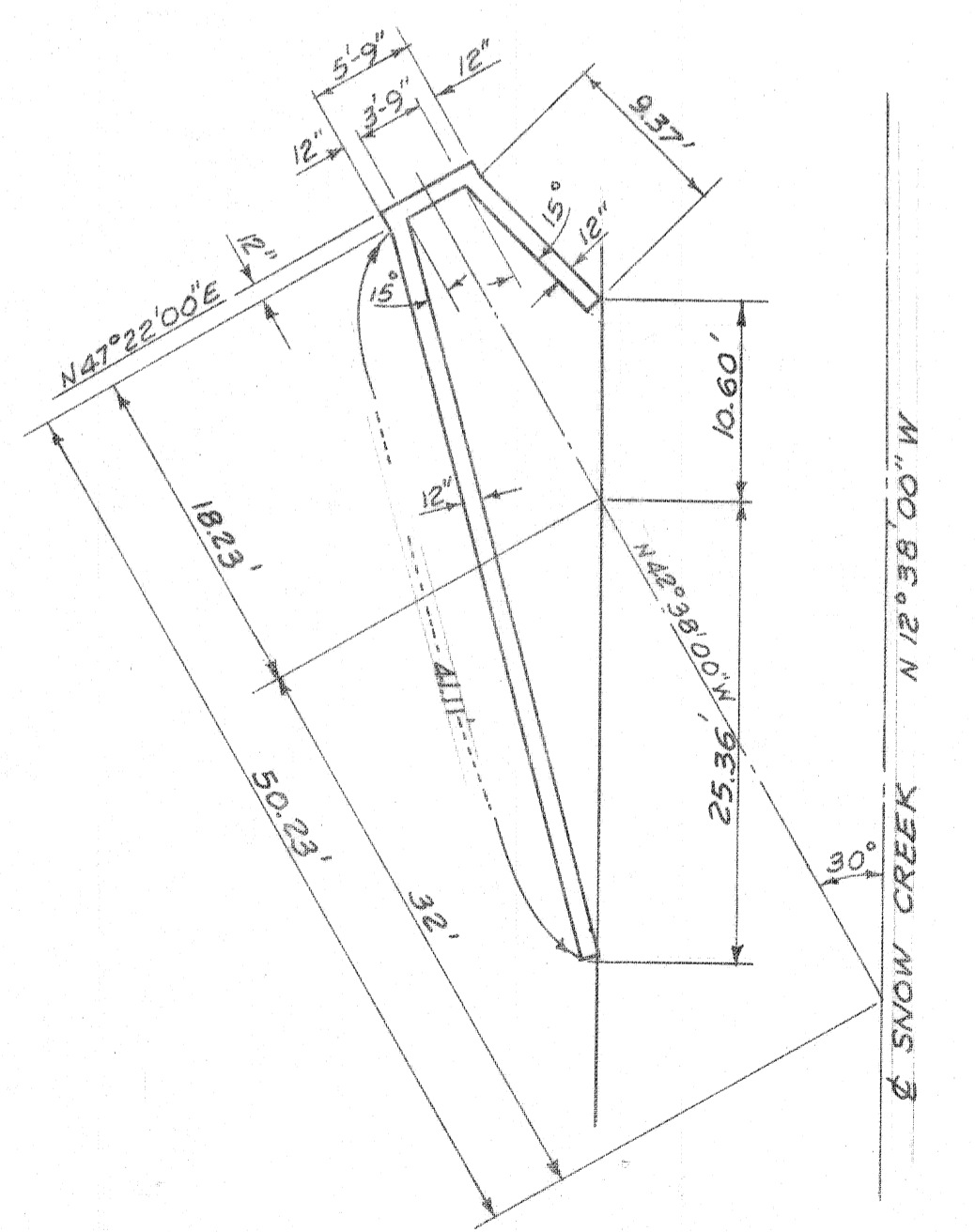
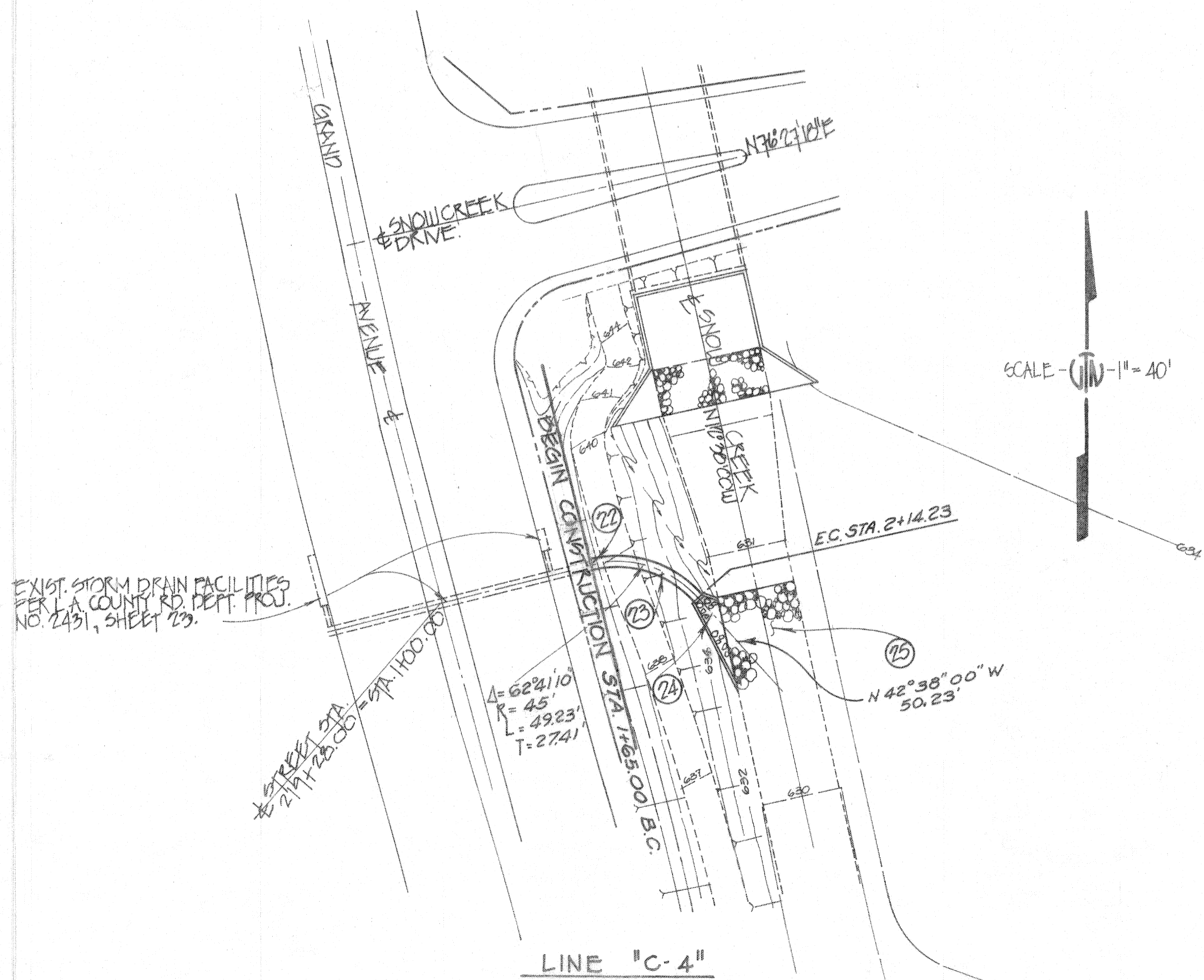
APPROVED BY:
 CITY OF WALNUT
 CITY ENGINEER
 Ronald L. Kranzer
 RONALD L. KRANZER R.C.E. DATE

PLANS PREPARED BY:
 V.T.N. CONSOLIDATED INC.
 2301 CAMPUS DRIVE
 IRVINE, CA. 92713 (714) 851-5200
 SIGNATURE: [Signature]
 CIVIL ENGINEER R.C.E. NO.

CITY OF WALNUT		135B
TRACT NO. 41682 STORM DRAIN		
LINE C	FROM STA 0+00.00 TO STA 4+62.09	SHEET 2 OF 3
LINE C-2	FROM STA 0+00.00 TO STA 0+67.10	
LINE C-3	FROM STA 0+00.00 TO STA 0+86.59	
LAT. C-8	FROM STA 0+00.00 TO STA 0+58.81	



PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



R.C. HEADWALL STR.
 (PER CALTRANS STD. D.90-TYPE "A")
 SCALE: 1" = 10'

- ②⑤ — CONSTRUCT RIPRAP PROTECTION PER DETAILS HEREON.
- ②④ — CONSTRUCT R.C. HEADWALL PER DETAILS HEREON.
- ②③ — CONSTRUCT 45" RCP, 1000 D.
- ②② — REMOVE EXIST. HEADWALL & RIPRAP AND JOIN RCP.

CONSTRUCTION NOTES

APPROVED BY:
 CITY OF WALNUT
 CITY ENGINEER
Ronald L. Kranzer 2-11-84
 RONALD L. KRANZER R.C.E. DATE

PLANS PREPARED BY:
V.T.N. CONSOLIDATED INC.
 2301 CAMPUS DRIVE,
 IRVINE, CA. 92713 (714) 851-5200
 SIGNATURE: *James P. Conley* 1/20/84
 CIVIL ENGINEER R.C.E. NO.

CITY OF WALNUT		SHEET 3 OF 3
TRACT NO. 41682 STORM DRAIN		
LINE C-4 FROM STA. 1+65.00 TO STA. 2+14.23		1350