

INDEX MAP

SCALE: ["=600'

CITY OF WALNUT TRACT NOS. 40419 & 35305

	HYDRA	AULIC	ELE	MENT	S TAE	BLE
LINE	FROM STA.	TO STA.	SIZE (IN.)	Q-C.F.S.	V-F.P.S.	STORM FREQ.
A	0+35.83	0+97.25	30"	82.80	25.26	25
	0+97.25	1+19.02	30"	41.70	21.37	25
÷	1+19.02	1+82.84	30"	29.80	11.90	25
B	1+00.00	1+07.28	21"	11.90	36.74	25
C	1+00.00	4+64.00	24"	41.10	15.68	25
	4+64.00	5+06.00	24"	41.10	13.00	25
	5+06.00	8+73.00	24"	34.70	11.05	25
	8+73.00	10+49.00	24"	29.20	12.10	25
	10+49.00	11+24.00	24"	25.00	11.77	25
	11+24.00	12+54.50	24"	25.00	11.77	25
	12+54.50	13+08.00	24"	25.00	.28.22	25
	13+08.00	14+38.20	24"	25.00	10.13	25

NOTE:
IF CONSTRUCTION OF IMPROVEMENTS AS
SHOWN HEREON IS NOT COMMENCED
WITHIN IS MONTHS OF APPROVAL DATE
THESE PLANS ARE SUBJECT TO REVISION

	<u> Paragonal de la Paragonal de</u>					
NO.	REVISION	REVISED BY	APPROVED BY	DATE	CITY OF WALNUT - Approved City Engineer	
					City Engineer	
					Concel I Known 8-20-86	
		/			Ronald L. Kranzer R. C.E. 18503 Date	

BENCH MARK: C. G. 1781

R.D.B.M. TAG NR. CTR. OF CONC. HDWL. 24 FT. N. & LA PUENTE RD. + O.2 MI. W/O GRAND AVE.

COVINA QUAD 1975

GENERAL NOTES (Cont'd)

- 23. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST.R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.
- 24. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10. 4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.

ELEV. 617.011

- 25. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
- 26. ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION. OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
- 27. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1:3:5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 4 INCHES OVER TOP OF PIPE.
- 28. THE CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, CONTRACT ADMINISTRATION DIVISION BY TELEPHONE AT 226-4206 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- 29. MAIN LINE STORM DRAIN R.C. PIPE, WHERE INDICATED IN THE PROFILE SHALL BE MANUFACTURED WITH 1" OR 1 1/2" ADDITIONAL THICKNESS OF CONCRETE OVER THE INVERT REINFORCING.
- 30. A PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY FLOOD CONTROL ELEMENT PRIOR TO COMMENCING ANY CONSTRUCTION WORK UNDER THIS CONTRACT, CONTACT THE DISTRICT BY TELEPHONE AT 226-4208 TO OBTAIN AN INSPECTION AND CONNECTION PERMIT AND TO MAKE DEPOSIT FOR CONSTRUCTION INSPECTION BY THE FLOOD CONTROL ELEMENT.
- 31. LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS EXCEPT TRANSVERSE JOINTS IN RECTANGULAR CHANNELS AND AROUND ALL CORNERS UNLESS OTHER-WISE SHOWN.
- 32 . THE CONTRACTOR SHALL OBTAIN A PERMIT FOR UTILITY TRENCHES FROM THE CITY OF WALNUT

LIST OF STANDARD PLANS

LOS ANGELES COUNTY FLOOD CONTROL DIST STANDARD DROP STEP2 - D96 CONC. RINGS, REDUCER & PIPE FOR M.H. SHAFT...2 - D107 JUNCTION STRUCTURE NO. 22 - D112 STANDARD A-615 REINFORCING BARS2 - D171 C.B. REINFORCEMENT 2 - D172 REMOVABLE PROTECTION BAR FOR C.B.'s.....2 - D175 TYPICAL FENCE FOR CHANNEL R/W's2 - D178 TYPICAL FENCE FOR CHANNEL WALLS2 - D180 TRANSITION STRUCTURE NO. 32 - D188 PROTECTION BARRIER2 - D261.1-.3 ADJUSTABLE PROTECTION BAR STIRRUP2 - D264 STANDARD 24" M.H. FRAME & COVER 2 - D472 TRASH RACK 2 - DTR1.1-.2 LOCAL DEPRESSION NO. 2 (H=6", CASE C) & (H-6", CASE B) 2 - D88

TRACT NO. 35305 M.T.D. NO. 1122

STORM DRAIN PLANS IN

GENERAL NOTES

- 1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1985 EDITION". INCLUDING SUPPLEMENTS AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
- 2. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY. PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL
- 3. THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL DEVELOPMENT DIV. BY TELEPHONE, 738-2156 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE COUNTY ENGINEER, 550 S. VERMONT AVE., LOS ANGELES. AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- 4. ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
- 5. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED,
- 6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
- 7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3250 PSI.
- 8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
- 9. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2 1/2" CLEARANCE UNLESS OTHERWISE
- 10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615
- 11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
- 12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
- 13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
- 14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18". WHICHEVER IS GREATER.
- 15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
- 16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS.
- 17. WHERE PIPE IS TO BE PLACED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF PIPE PRIOR TO TRENCHING.
- 18. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 226-8191.
- 19. A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
- 20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE AND BEDDING PER STANDARD DRAWING D-54. UNLESS OTHERWISE NOTED.
- 21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
- 22. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED. MANHOLES BROUGHT TO GRADE. AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.

RIPRAP NOTES

UNLESS OTHERWISE SPECIFIED.

- 1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK.
 THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT
 EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
- 2. THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK.
 ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
- 3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

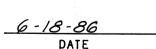
NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

REGISTERED CIVIL ENGINEER NO.

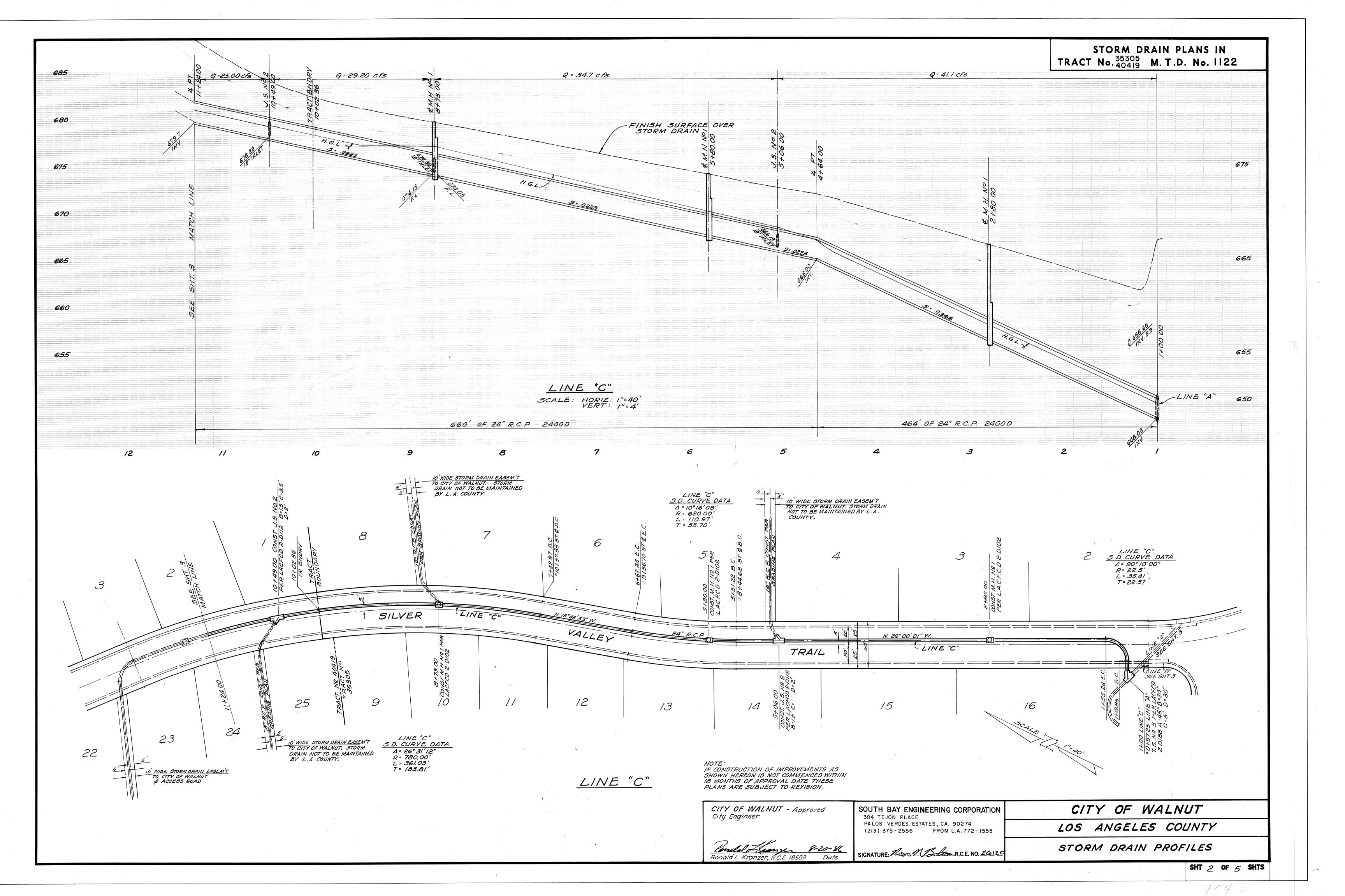


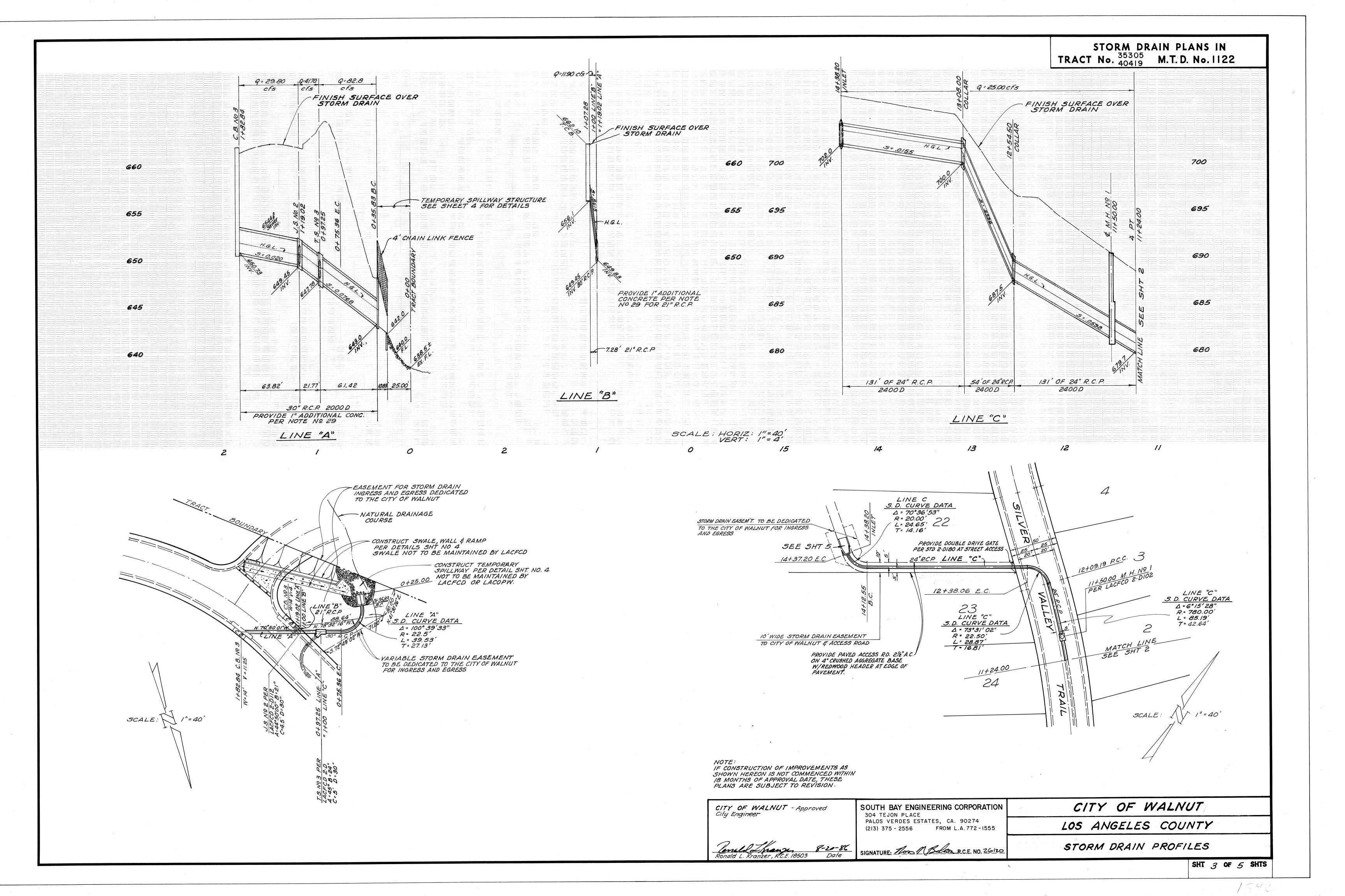
SOUTH BAY ENGINEERING COPORATION
304 TEJON PLACE
PALOS VERDES ESTATES, CA 90274
Phone (213) 375-2556 772-1555

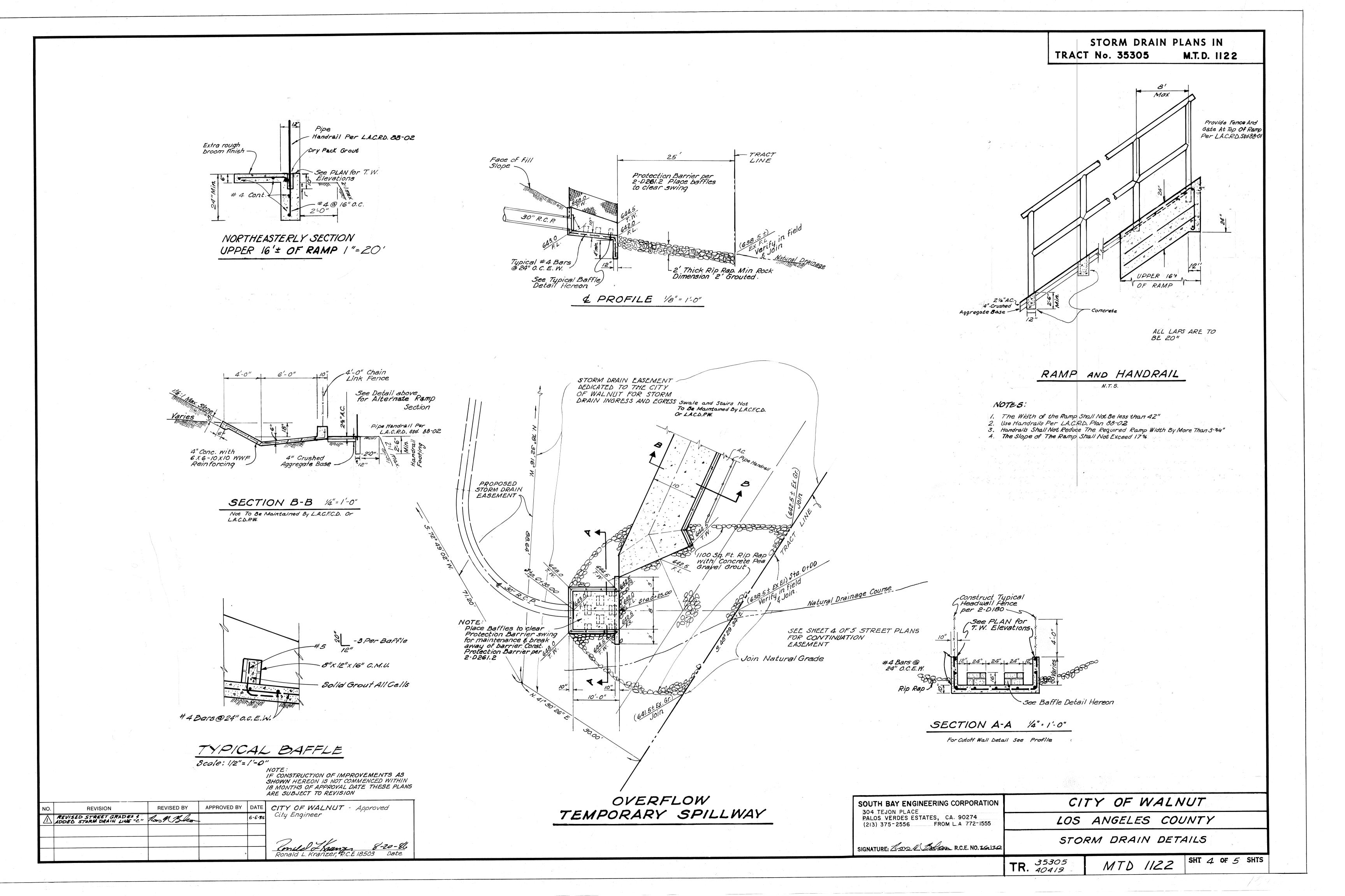
SIGNATURE: Moss M. Bolton RCE NO 26/20

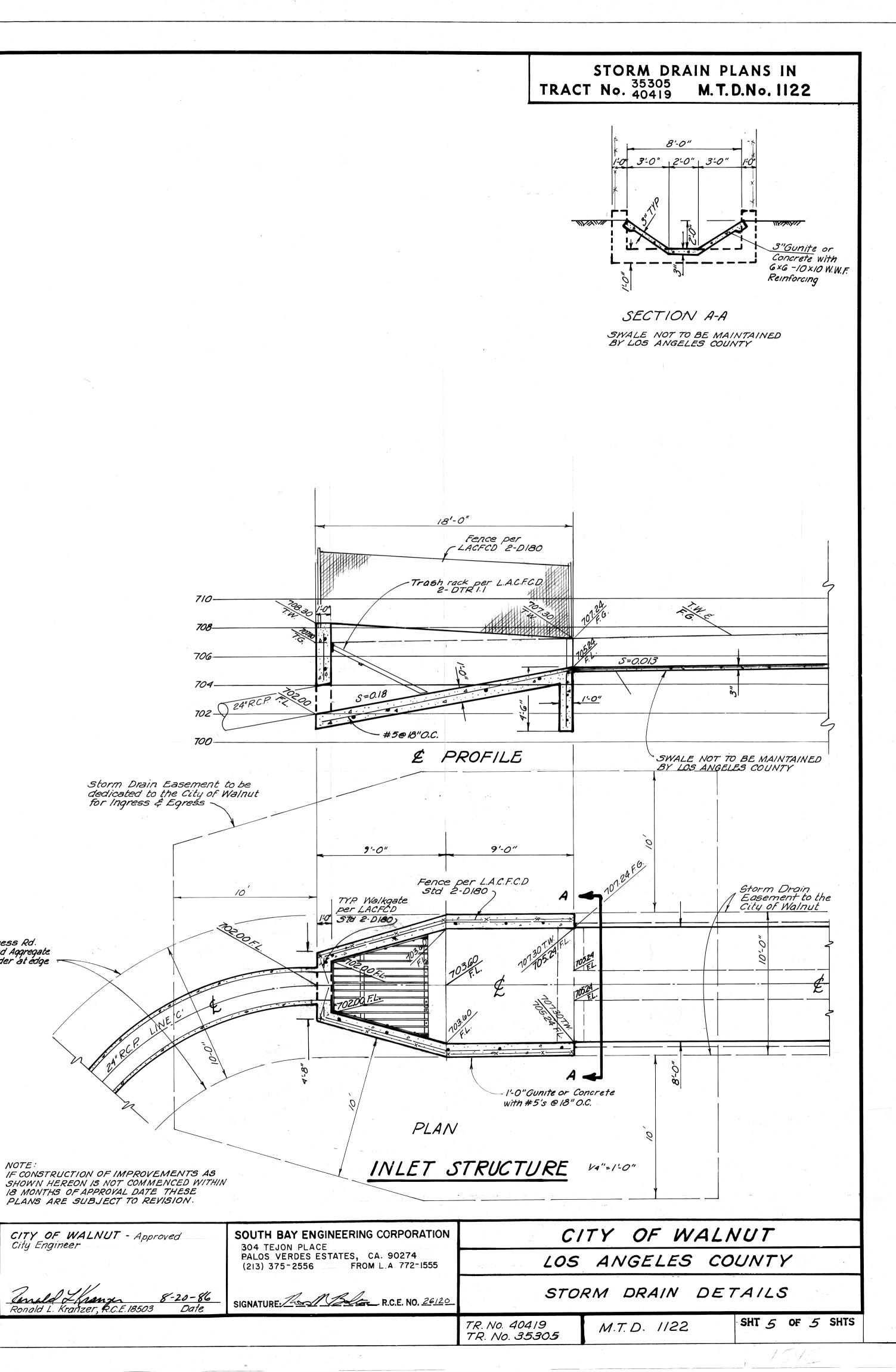
CITY OF WALNUT

STORM DRAIN PLANS









700-

Storm Drain Easement to be dedicated to the City of Walnut for Ingress & Egress

IF CONSTRUCTION OF IMPROVEMENTS AS SHOWN HEREON IS NOT COMMENCED WITHIN IS MONTHS OF APPROVAL DATE THESE PLANS ARE SUBJECT TO REVISION.

CITY OF WALNUT - Approved City Engineer

Construct paved Access Rd. 2½" A.C. on 4" Crushed Aggregate Base W/Redwood Header at edge of pavement.

