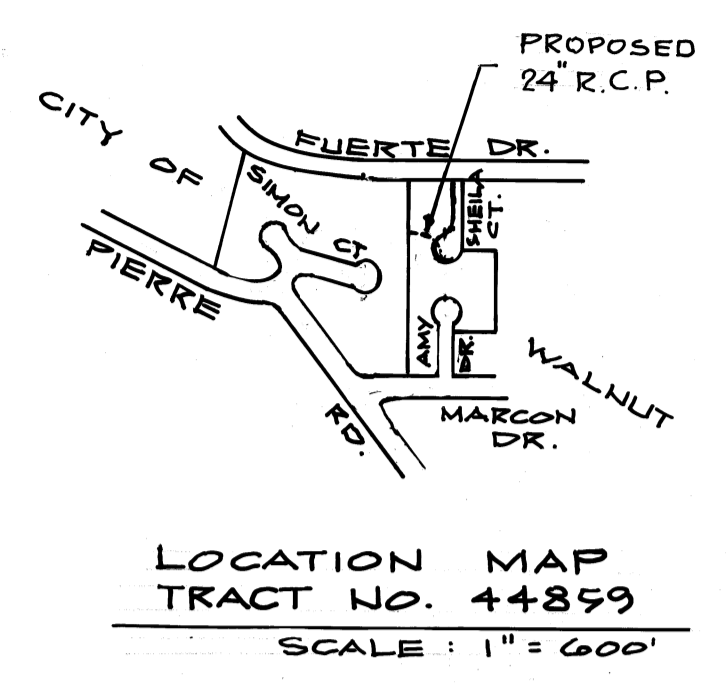
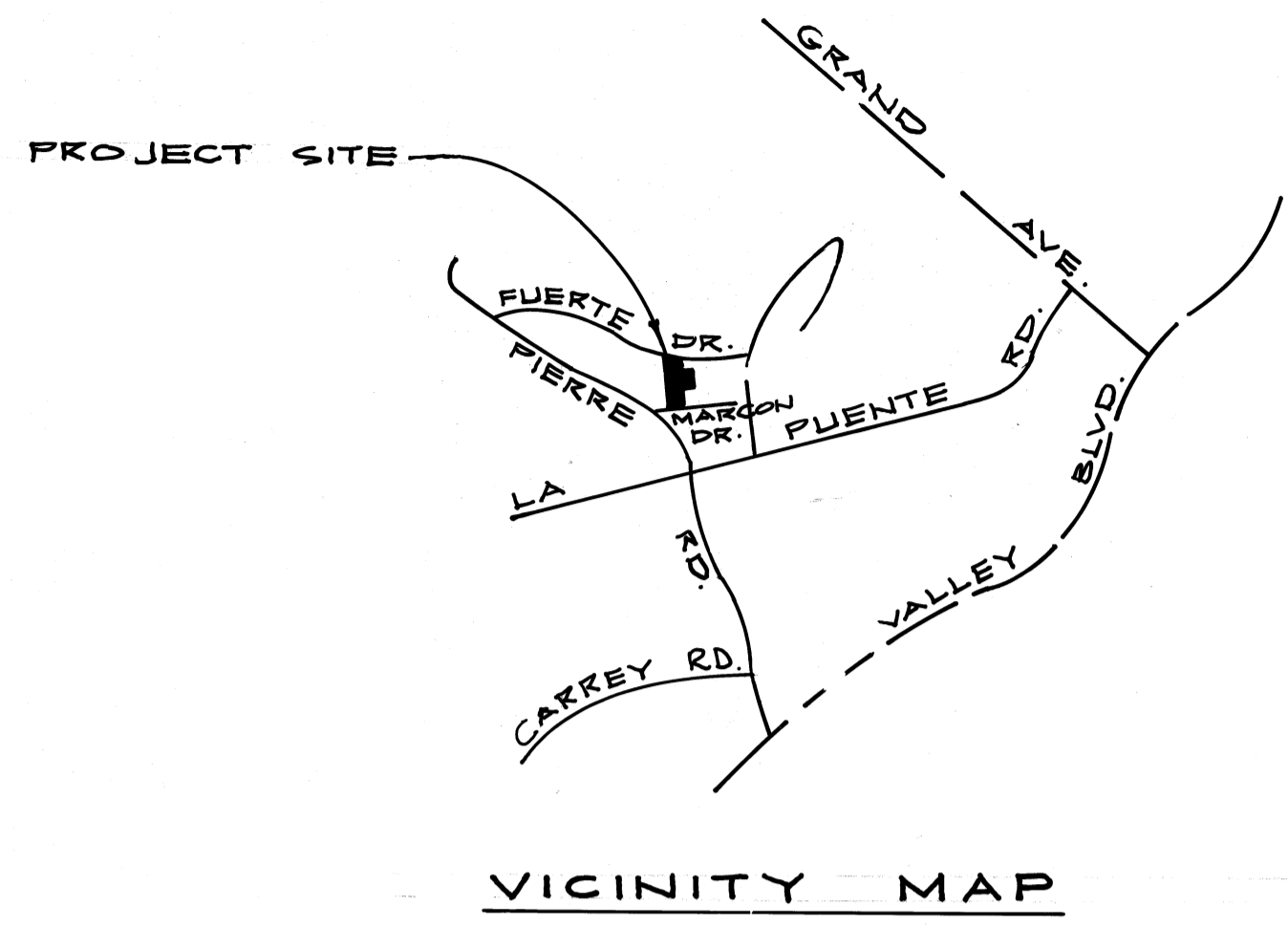


STORM DRAIN PLANS IN TRACT No. 44859

BENCH MARK NO. CG. 1774
 ELEV. 577.92
 L.A.C.R.D. S.M. LET IN CONC., HDWL @ N.W. COR. OF LA PUENTE RD. & PIERRE RD. 25' NORTH & 30' WEST E. INTR. MKD. (B.M.)
QUAD. 19



GENERAL NOTES (Cont'd)

23. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. RW HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO THE ACCEPTANCE OF THE WORK BY THE CITY.
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.
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 SUBJECT 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. A PERMIT SHALL BE OBTAINED FROM THE CITY OF WALNUT, PRIOR TO COMMENCING ANY CONSTRUCTION WORK UNDER THIS CONTRACT. CONTACT THE CITY BY PHONE AT (714) 594-9702 TO OBTAIN AN INSPECTION AND CONNECTION PERMIT AND TO MAKE DEPOSIT FOR CONSTRUCTION INSPECTION.
29. THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES UNTIL THIS STORM DRAIN SYSTEM IS OPERABLE.
30. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER BY TEL 714-597-9402 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
31. THE PIPE IS TO BE MANUFACTURED WITH ADDITIONAL CONCRETE THICKNESS OVER THE INVERT REINFORCEMENT AS SPECIFIED IN PROFILE ON THESE PLANS.
32. ALL REFERENCES ON THIS PLAN TO THE COUNTY ENGINEER, ROAD DEPARTMENT, OR FLOOD CONTROL DISTRICT SHALL APPLY TO THESE APPROPRIATE SECTIONS OF THE DEPARTMENT OF PUBLIC WORKS.

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 CITY ENGINEER.
2. APPROVAL OF THIS PLAN BY THE CITY OF WALNUT 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 SHEETS.
3. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER BY TELEPHONE, (714) 594-9702, 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, INSPECTED AND APPROVED.
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 p.s.i. UNLESS OTHERWISE NOTED.
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 SPECIFIED.
10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615 GRADE 60.
11. ALL EAR 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. [REDACTED]
16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
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 DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE FOREMENTIONED 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 226-8188.
19. [REDACTED]
20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE 44 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, MANHOLLS BROUGHT TO GRADE AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE CITY ENGINEER.

TRASH RACK (INCLINED)	L.A.C.F.C.D. STD. DWG. 2-DTR1.1-2
CATCH BASIN STEP	L.A.C.F.C.D. STD. DWG. 2-D96
FRAME AND COVER	L.A.C.F.C.D. STD. DWG. 2-D156
MANHOLE LOCATIONS	L.A.C.F.C.D. STD. DWG. 2-D157
CATCH BASIN NO. 2	L.A.C.F.C.D. STD. DWG. 2-D162
CATCH BASIN REINFORCEMENT	L.A.C.F.C.D. STD. DWG. 2-D171 & D172
PIPE BEDDING	L.A.C.F.C.D. STD. DWG. 2-D177
LOCAL DEPRESSION	L.A.C.F.C.D. STD. DWG. 2-D188
CATCH BASIN SUPPORT BASIN	L.A.C.F.C.D. STD. DWG. 2-D232
PROTECTION BARRIER	L.A.C.F.C.D. STD. DWG. 2-D261.1-3

TOT. LL. & D.L. = 1600 LB./FT.

NOTE:
 PRIOR TO BIDDING AND OR CONSTRUCTION FROM THESE DRAWINGS A COPY OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT (NOW KNOWN AS DEPT. OF PUBLIC WORKS) STANDARD DRAWINGS SHALL BE OBTAINED AT 2250 ALCAZAR STREET, LOS ANGELES, CALIFORNIA (213) 226-2111.

RIPRAP NOTES

1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSIONS 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 SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

Lawrence W. Speight
 REGISTERED CIVIL ENGINEER No. _____ DATE: 6/29/87



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

CITY OF WALNUT

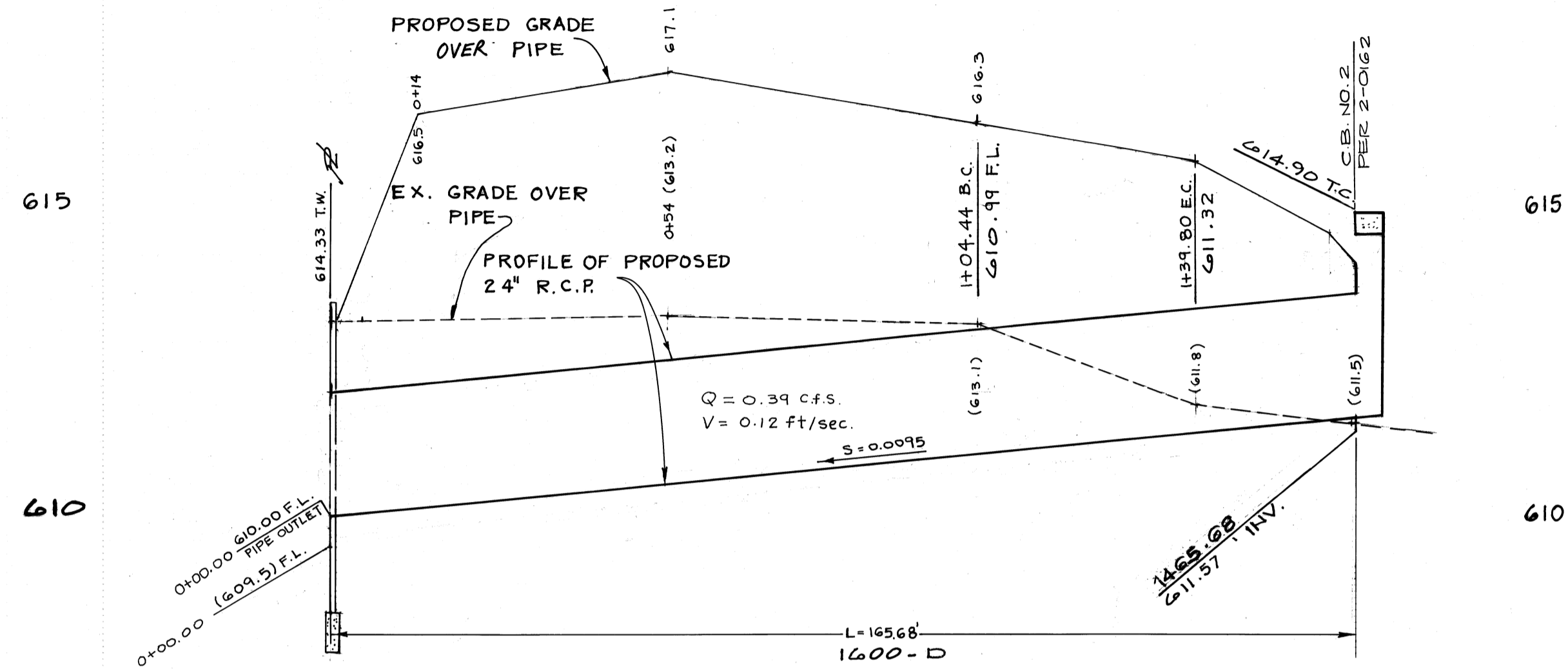
STORM DRAIN PLAN-TRACT NO. 44859

NO	REVISION	REV. R.C.E. NO.	APPROVED BY	DATE

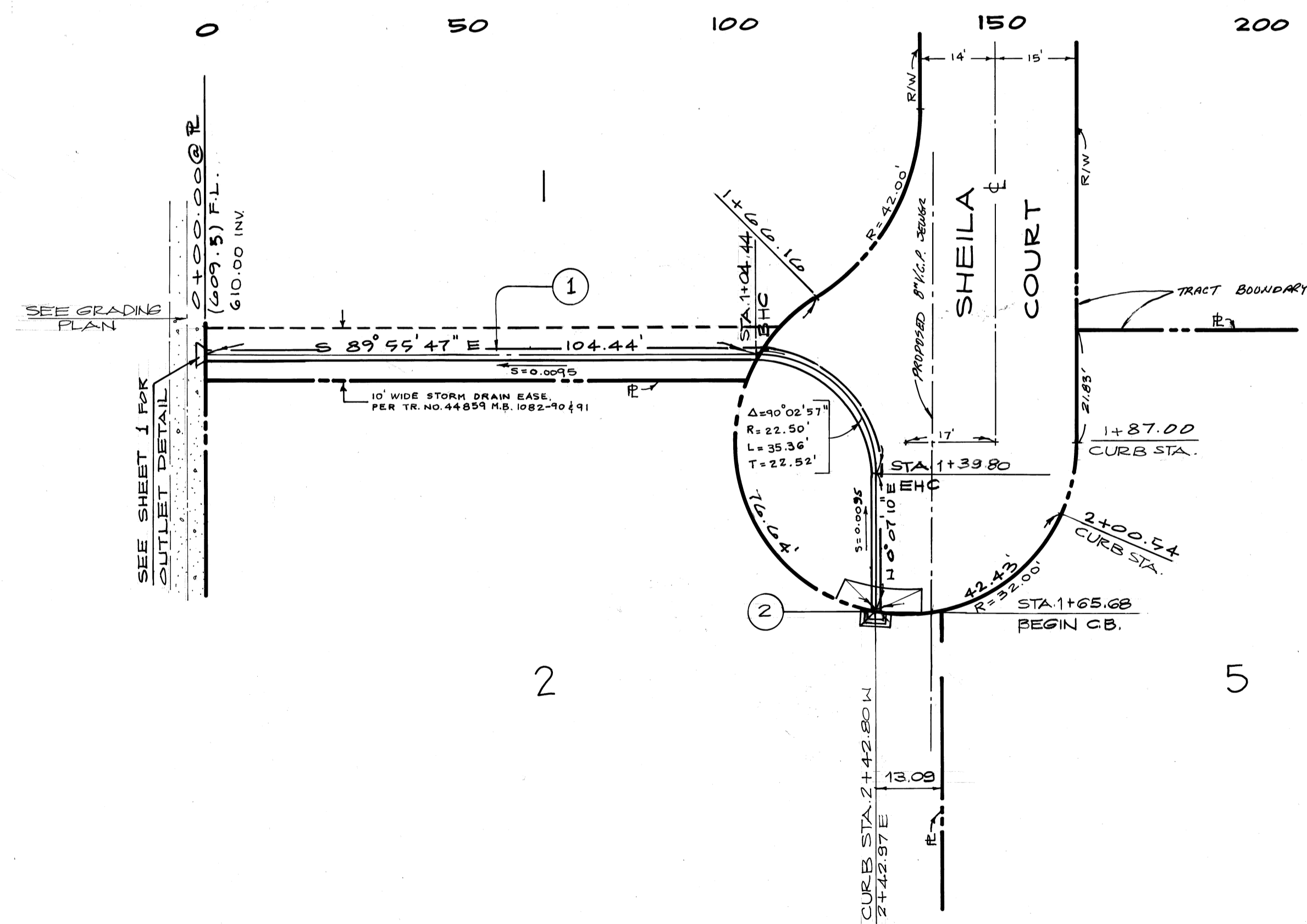
CITY OF WALNUT APPROVAL
 CITY ENGINEER
Ronald L. Kranzer
 RONALD L. KRANZER R.C.E. No. 18503 DATE: 8/18/87

PREPARED BY:
 SPEIGHT ENGINEERING CO., INC.
 8301 E. FLORENCE AVE., STE. #318
 DOWNEY, CA. 90240 (213) 923-8896
 SIGNATURE: *Lawrence W. Speight* R.C.E. No. 32215

APPROVED BY: _____ DATE: _____
 CHECKED BY: _____ R.C.E. NO. _____ DATE: _____



SCALE:
HORIZ. 1" = 20'
VERT. 1" = 2'

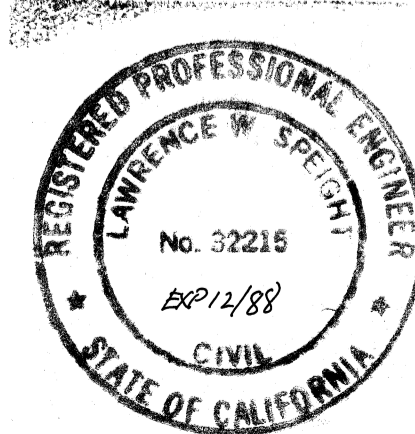


SCALE: 1" = 20'

CONSTRUCTION NOTES:

- INSTALL 24" R.C. PIPE 1600-D AT LINE AND GRADE SHOWN HEREON. PIPE BEDDING SHALL BE PER L.A.C.F.C.D. STD. PLAN 2-D177, CASE III. STATIONS SHOWN ON PROFILE ARE PIPE CENTERLINE STATIONS. THOSE AT CATCH BASIN INDICATE STREET STATIONS PER IMPROVEMENT PLANS THEREOF.
- CONSTRUCT CATCH BASIN NO. 2 FOR L.A.C.F.C.D. STD. PLAN NO. 2-D162 AND LOCAL DEPRESSION NO. 2 PER DISTRICT NO. 2-D88 CASE "C". CONSULT COUNTY STANDARDS PLANS LISTED ON SHEET ONE OF THIS DRAWING FOR COMPLETE CONSTRUCTION DETAILS. ALL PARAMETERS PER 2-D162 EXCEPT:
V-DEPTH = 3.33

NO.	REVISION	REVISED BY	APPROVED BY	DATE



PREPARED BY: JOB NO. 328
SPEIGHT ENGINEERING CO., INC.
8301 E. FLORENCE AVE. STE. #318
DOWNEY, CA. 90240 (213) 923-8896

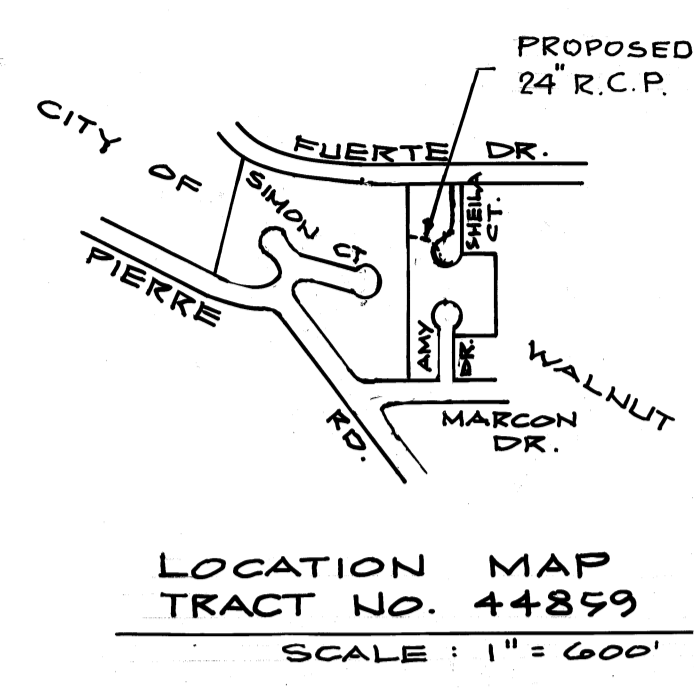
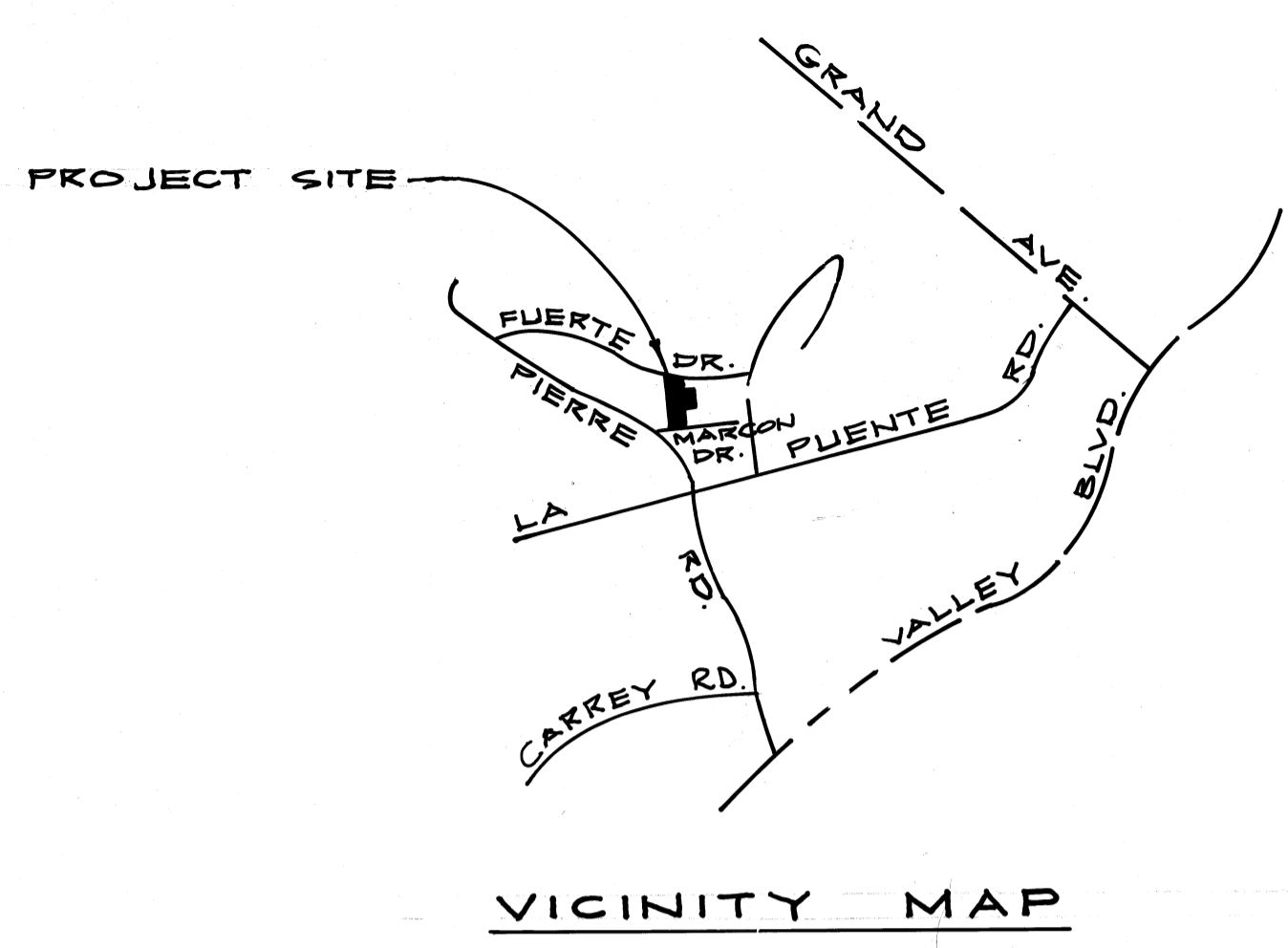
SIGNATURE: *Lawrence W. Speight* R.C.E. NO. 32216

CITY OF WALNUT
STORM DRAIN PLAN - TRACT NO. 44859

CHECKED BY: _____ R.C.E. NO. _____ DATE: _____

STORM DRAIN PLANS IN TRACT No. 44859

BENCH MARK NO. CG 1774
ELEV. 577.92
L.A.C.R.D. B.M. LET IN CONC., HDWL
@ N.W. COR. OF LA PUENTE RD. &
PIERRE RD. 25' NORTH & 30' WEST
E. INTR. MKD. (B.M.)
QUAD. 19



GENERAL NOTES (Cont'd)

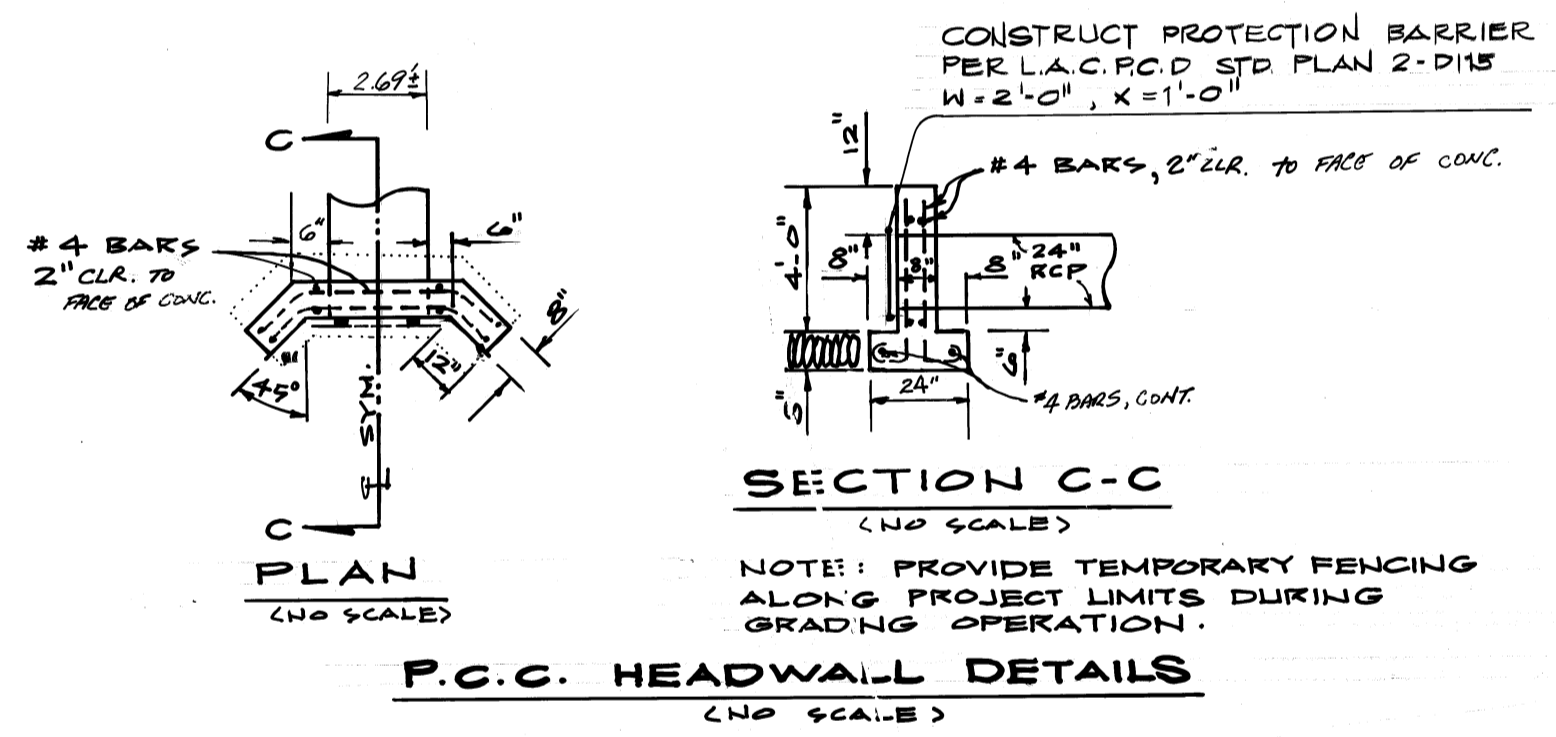
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20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE AND BEDDING PER STANDARD DRAWING D-54, UNLESS OTHERWISE NOTED.
21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
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TRASH RACK (INCLINED)	L.A.C.F.C.D. STD. DWG. 2-DTR1.1-2
CATCH BASIN STEP	L.A.C.F.C.D. STD. DWG. 2-D96
FRAME AND COVER	L.A.C.F.C.D. STD. DWG. 2-D156
MANHOLE LOCATIONS	L.A.C.F.C.D. STD. DWG. 2-D157
CATCH BASIN NO. 2	L.A.C.F.C.D. STD. DWG. 2-D162
CATCH BASIN REINFORCEMENT	L.A.C.F.C.D. STD. DWG. 2-D171 & D172
PIPE BEDDING	L.A.C.F.C.D. STD. DWG. 2-D177
LOCAL DEPRESSION	L.A.C.F.C.D. STD. DWG. 2-D188
CATCH BASIN SUPPORT BASIN	L.A.C.F.C.D. STD. DWG. 2-D232
PROTECTION BARRIER	L.A.C.F.C.D. STD. DWG. 2-D261.1-3
TOT. LL. & D.L. = 1600 LB./FT.	

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RIPRAP NOTES

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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

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

Lawrence W. Speight
 REGISTERED CIVIL ENGINEER No. _____ DATE: 6/27/87



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

CITY OF WALNUT
STORM DRAIN PLAN-TRACT NO. 44859

NO	REVISION	REV. R.C.E. NO.	APPROVED BY	DATE

CITY OF WALNUT APPROVAL CITY ENGINEER <i>Ronald L. Kranzer</i> 8-18-87 RONALD L. KRANZER R.C.E. No. 18503 DATE:	PREPARED BY: SPEIGHT ENGINEERING CO., INC. 8301 E. FLORENCE AVE., STE. #318 DOWNEY, CA. 90240 (213) 923-8896
	SIGNATURE: <i>Lawrence W. Speight</i> R.C.E. NO. 32215

APPROVED BY: _____ DATE: _____
 CHECKED BY: _____ R.C.E. NO. _____ DATE: _____

