

BENCH MARK: CG 1774 ELEV. 577.92

LIT IN CONC. HEADWALL ON W COR. LA PUENTE RD. I PIERRE RD. 25' NORTH & 30' EAST & INT. MARKED "BM"

STORM DRAIN PLANS IN TRACT No. 37905 P.D. No.

### **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 CITY ENGINEER PRIOR TO 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
- 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. A PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 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 CONSTRUC-TION INSPECTION BY THE DISTRICT.

CAST-IN-PLACE CONCRETE PIPE NOTES

SHALL BE 5000 psi AND THE MINIMUM FLEXURAL TENSILE STRENGTH (fr. MODULUS

1 FOOT CONCRETE BACKFILL SHALL BE PLACED OVER PIPE WHEN JUNCTION STRUCTURE

4. AT THE END OF ALL POURS AND THE END OF EACH WORKING DAY, THE CONTRACTOR

CAST-IN-PLACE PIPE MAY BE CONSTRUCTED ONLY IN GROUND CAPABLE OF

UNSUPPORTED FROM THE BOTTOM OF THE TRENCH TO THE TOP OF THE PIPE

WITHOUT SLOUGHING. THE GROUND SHALL NOT CONTAIN TRASH, DEBRIS, OR

SHALL INSTALL #4 DOWELS 24" LONG, 12 INCHES INTO THE LAST POUR AT 12

2. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

INCH CENTERS AROUND CIRCUMFERENCE OF CAST-IN-PLACE PIPE.

THE THICKNESS OF PIPE SHALL BE 6" MINIMUM.

OF RUPTURE) SHALL BE 672 psi.

BITUMINOUS MATERIALS.

29. THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES UNTIL THIS STORM DRAIN

# **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 1982 EDITION," INCLUDING 1983 SUPPLEMENT AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE CITY ÉNGINEER.
- 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 LEAST48 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE CITY OF WALNUT PRIOR TO APPROVAL OF THESE
- 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, IN-SPECTED 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 3000 p.s.i.
- 8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
- 9. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2½" CLEARANCE UNLESS OTHERWISE SPECIFIED.
- 10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615-GRADE
- 11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF
- 12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE
- 13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90%
- 14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICH-
- 15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE CITY
- OF WALNUT. 16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS
- 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 CITY ENGINEER SHALL INSPECTALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT
- LEAST48 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 594-9702 19. A PERMIT SHALL BE OBTAINED FROM THE CITY OF WALNUT AND SHALL BE SUBMITTED TO THE INSPEC-TOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
- 20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY FLOOD CONTROL DISTRICT STANDARD DRAWING 2-DITT UNLESS OTHERWISE NOTED.
- 21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTAL-LY 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 CITY

## RIPRAP NOTES

- 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
- 3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION

# LOS ANGELES COUNTY FLOOD CONTROL DIST. STANDARD DWGS

NO.	DESCRIPTION	STD. DWG. NO.
1	TRANSITION STRUCTURE NO.3	2 - D188
2	CATCH BASIN NO. 3	2-D163
3	JUNCTION STRUCTURE NO. 2	2-D112
4	MANHOLE NO. 2	2-0184
5	PIPE BEDDING IN TRENCHES	2 - D/77
6	TRANSITION STRUCTION NO.2	2- D235

#### LOS ANGELES COUNTY ROAD DEPART. STANDARD DWGS. DESCRIPTION STD. DWG. NO. LOCAL DEPRESSION (L.D.) NO. 2. 68-02

## 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.

REGISTERED CIVIL ENGINEER No. 27/27

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

**REVISION** REVISED BY APPROVED BY DATE TRIAD FOUNDATION ENGINEERING, INC. FOUNDATION ENGINEERING ENGINEERING GEOLOGY MATERIAL TESTING CONSTRUCTION INSPECTION 17231 EAST RAILROAD STREET CITY OF INDUSTRY, CALIF. 91748 TELEPHONE (818) 964-2313

FRANK C. STILLMAN R.C.E. 16810

O'MALLEY ENGINEERING CORPORATION **CONSULTING CIVIL ENGINEERS** AND LAND SURVEYORS 500 WEST HARRINGTON STREET, SUITE A-1 CORONA, CAL. 91720 (714) 734-0633 Malley

JAMES O'WALLEY," P.E. 27217 💉

APPROVED: GITY ENGINEER 10-29-84

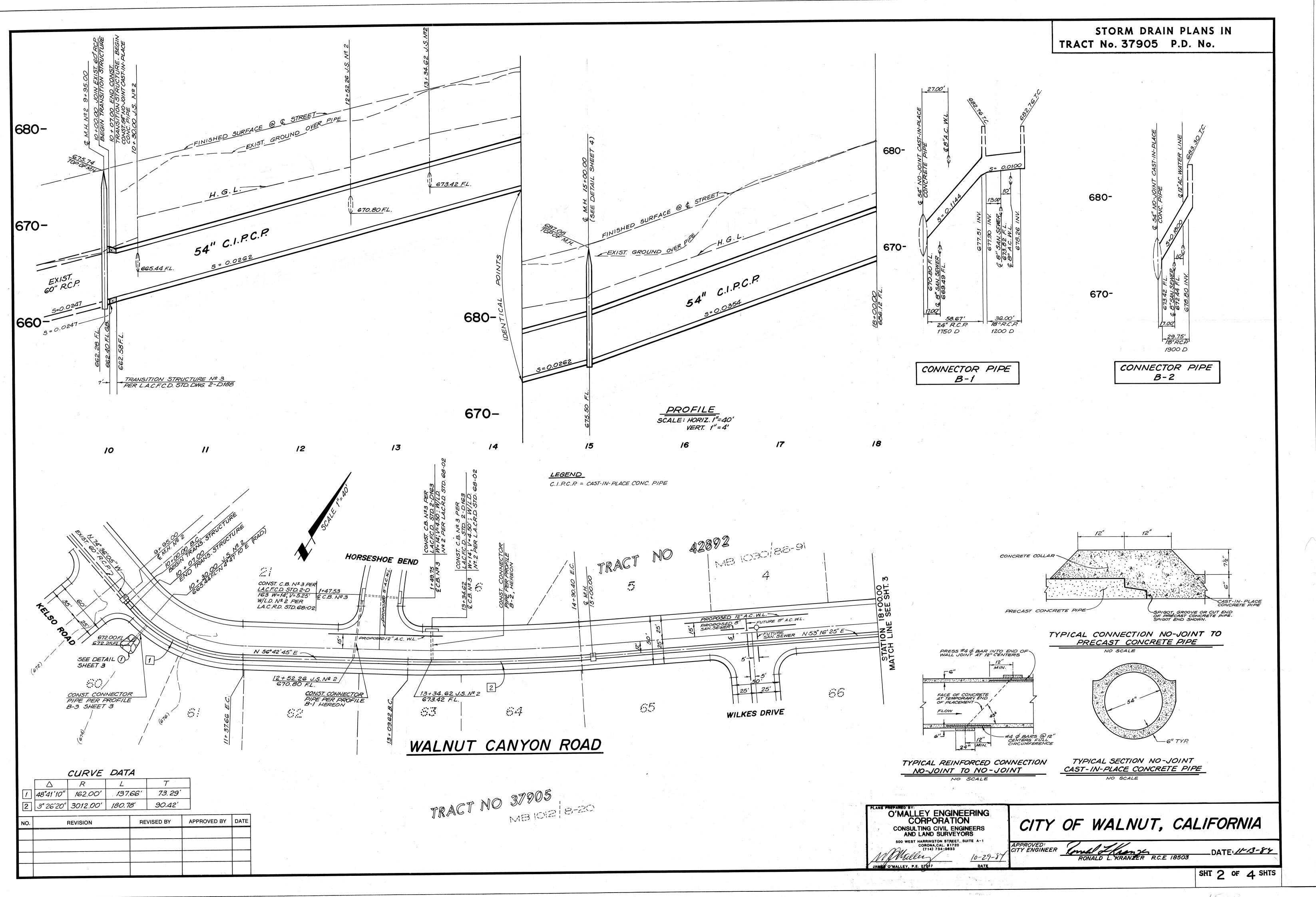
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RONALD LIKRANZER RCE 18503 SHT 1 OF 4 SHTS

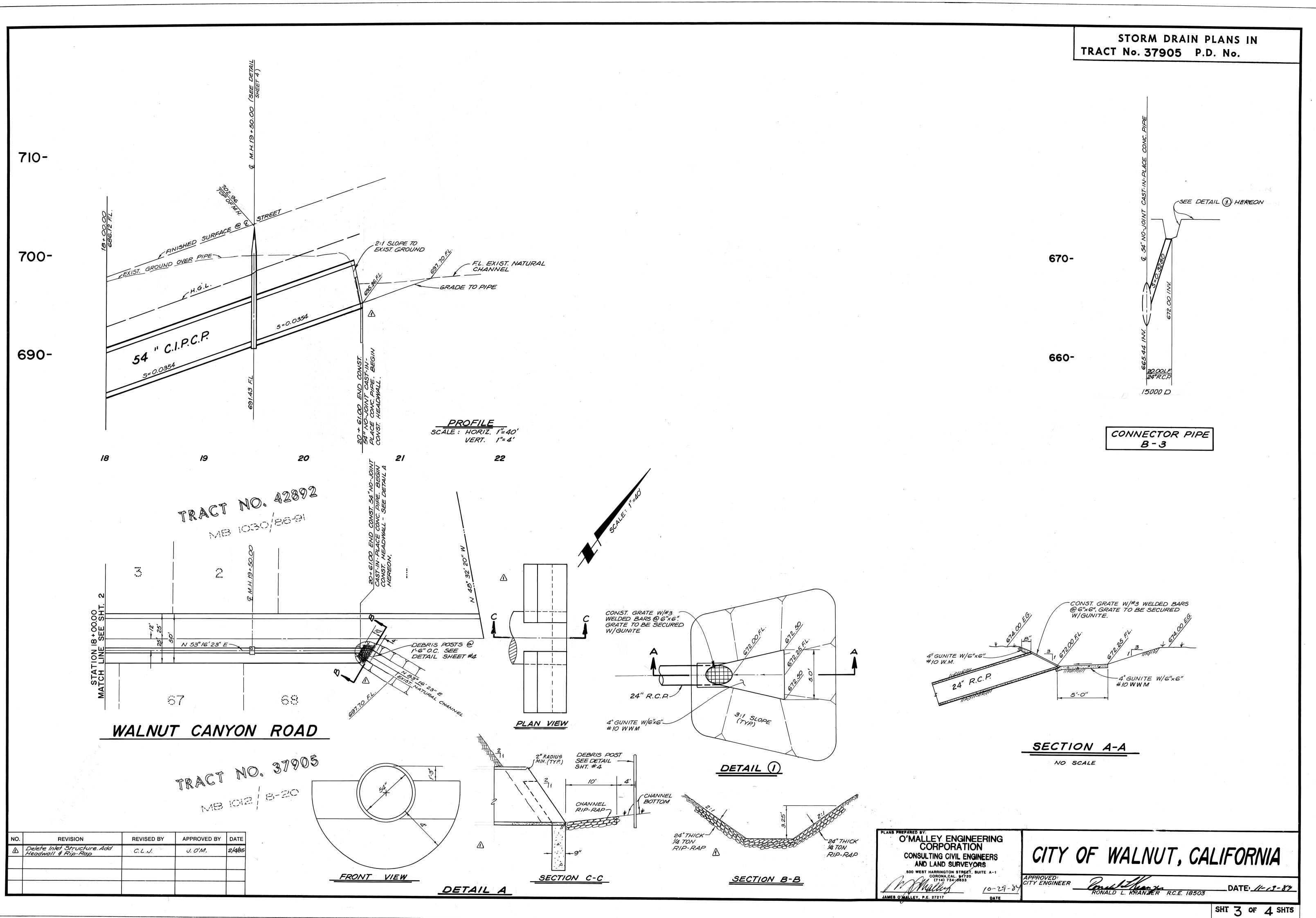
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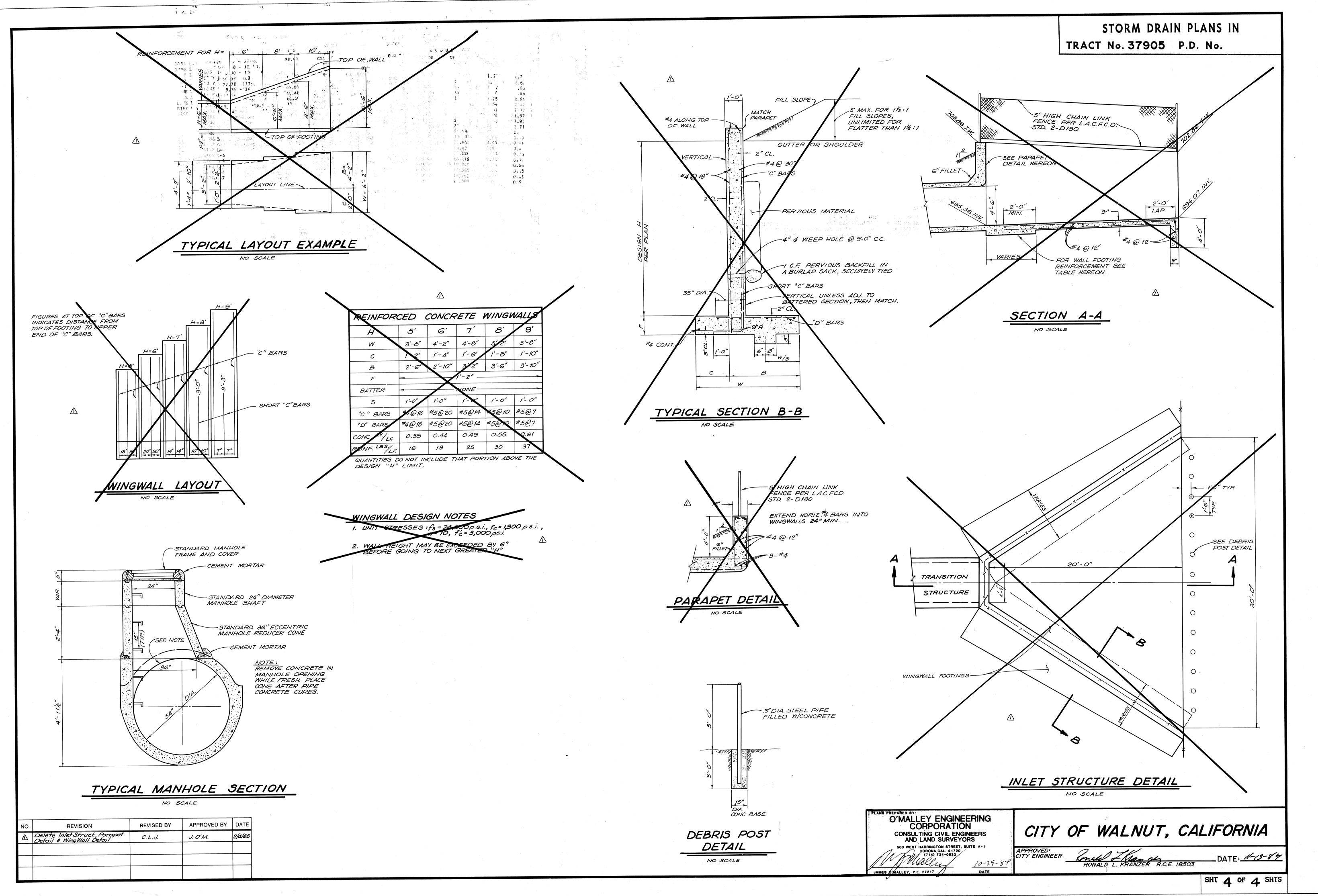
SOUTHERN CALIFORNIA BLUEPRINT CO. P.D. SHEET NO. 1 DATE 1-83

11-13-84



SOUTHERN CALIFORNIA BLUEPRINT CO. P.D. SHEET NO. 2 DATE 1-83





SOUTHERN CALIFORNIA BLUEPRINT CO. P.D. SHEET NO. 3 DATE 1-83