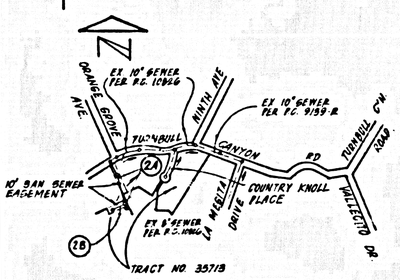
B.M. C 6 4483 ELEV. 492.917

RDBM TIC IN CURB (C.B.) 5' WEST OF N'LY BCR, 26' WEST OF CENTERLINE OF TURNBULL CANYON RD AND 5' NORTH OF CENTERLINE OF ORANGE GROVE AVE.

WHITTIER QUAD. 19 80



INDEX MAP

SCALE 1"=600'

P.C. 10946 - R/W S/O INTERSECTION OF TURNBULL CANYON ROAD AND ORANGE GROVE AVENUE.

PRIVATE ENGINEER'S 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 THESE PLANS. THE CONTRACTOR IS REQUIRED TO "USE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY C.=HR LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "UNDERGROUND SERVICE ALERT" AT 1-800-422-4133 TWO WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

Hal Raab 10/1/80
REGISTERED ENGINEER HAZEL L. RAAB RCE NO 29616

CONSTRUCTION NOTES CON'T.

15. FULL COMPLIANCE WITH Part II OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE
17. MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
18. A.B.S. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE
19. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION B-3.1 OF PART III OF THE SPECIAL PROVISIONS
20. THREE DEGREE DEFLECTION COUPLERS ARE REQUIRED FOR RADIUS OF CURVATURE LESS THAN 300 FEET WHEN USING 8" A.B.S. COMPOSITE PIPE
21. NO CONNECTIONS FOR DISPOSAL OF INDUSTRIAL WASTE IS ALLOWED IF A.B.S. COMPOSITE PIPE IS USED
22. SEWER LINE CURVATURE SHALL NOT BE ACHIEVED BY PULLING OF JOINTS OR BEVELING PIPE ENDS WHEN USING PLASTIC PIPE INCLUDING A.B.S. COMPOSITE PIPE
23. ALL WYES AND/OR HOUSE LATERALS ARE TO BE LOCATED AT LEAST FIVE FEET APART AND WHEN POSSIBLE NOT CLOSER THAN FIVE FEET TO ANY MANHOLE
24. A.B.S. SOLID WALL PIPE IS NOT ACCEPTABLE FOR USE AS MAINLINE SEWER
25. ONLY WYE BRANCHES ARE TO BE USED FOR CONNECTION TO A.B.S. COMPOSITE MAINLINE SEWER PIPE

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (818) 962-8605 SO THAT REQUIRED INSPECTION CAN BE MADE.

ISSUE NO HOUSE CONNECTION PERMITS UNTIL P.C. 10826 IS ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
3. NO REPRESENTATION OF ANY OF THE DEPT. OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS OR CENTERLINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BE THEIR DESIGNATED POINTS. THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE BETWEEN THESE GRADE DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPT OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERAL'S AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FROM THESE AT THEIR PROPER LOCATIONS 90 TO ESTABLISHING PLANS, IF MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHANGES SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGES IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE, BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION OFF OF THE L.A. DEPT OF PUBLIC WORKS PERMIT OFFICE NO. 6 ROOM 6, 701 N. ROSE AVE. P.O. BOX 1179 TO THE DIRECTOR OF PUBLIC WORKS, 3200 ALCAZAR ST., L.A. CA 90031, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7.10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY TRENCHES.
11. PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPT OF PUBLIC WORKS COPIES OF 1. PE-1907 TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIV. OF THE DEPT OF PUBLIC WORKS PERMIT OFFICE NO. 6 FOR EXCAVATION AND TRENCHES FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WC-4 FOR A COMPENSATION INSURANCE OR IN THE DEPARTMENT OF PUBLIC WORKS 3200 ALCAZAR ST., RM. A260, LOS ANGELES, CA. 90063 SIGNED BY THE CORPORATE HOLDER TO BE KEPT ON 30 DAYS PRIOR TO CANCELLATION OF POLICY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988 EDITION) "STANDARD DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED JULY 3, 1989 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEPT OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIV. PUBLIC WORKS DEPT. TEL. (818) 338-3554 BY LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 5 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS IF A.B.S.C.P. IS USED
6. ALL STRUCTURES SHALL BE 4FOUR INCH MANHOLES PER S-3.01 PRECAST CONCRETE MANHOLES PER S-30, EXCEPT AS NOTED
7. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
8. MANHOLE TOPS AS UNIMPROVED REMOVE OF 1000 TO BE SIX INCHES ABOVE FINISHED GRADE
9. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "O" OR "E" PER STANDARD SPECIFICATIONS SECTION 306-3
10. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-20, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE
11. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR 3 "HOME LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-20, CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
12. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "O" OR "E" WITH BUSHINGS IF NECESSARY PER STANDARD SPECIFICATIONS, SECTION 306-2
13. ALL JOINTS BETWEEN CAST IRON PIPE & A.B.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS
14. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
15. INSURANCE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY PUBLIC WORKS DEPT OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. FULL COMPLIANCE WITH SECTION 306-1.3.4 OF THE STAND. SPECIFICATIONS WILL BE REQ. FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
17. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION: AN BACKFILL TRENCH AND REPLACE (OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS DEVELOPMENT BY THE LAND DEVELOPMENT DIVISION. ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STD. METHOD OF TEST D1557-91T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIV. PUBLIC WORKS DEPT.

DOUBLE SCALE

PROFILE, ALIGNMENT AND GRADE OF

SANITARY SEWERS

TO BE CONSTRUCTED

R/W S/O INTERSECTION OF TURNBULL CANYON ROAD AND ORANGE GROVE AVE.

PRIVATE CONTRACT NO. 10946

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1 SHEET 2 PAGES

53409

SCALE: HORZ 1"=5' VERT 1"=50' FEBRUARY, 1989

PREPARED IN THE OFFICES OF
RAAB ENGINEERING INC.
1700 S. LINCOLN AVE
ANAHEIM, CA 92805
(714) 533-0840
BY: Hazel L. Raab REG C.E. 29616

HAZEL L. RAAB No. 29616 Exp. 3-31-91 CIVIL STATE OF CALIF.

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE DEPARTMENT OF PUBLIC WORKS SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK SEWER MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
TRENCHING AND EXCAVATION	S-22
WYE OR TEE SUPPORT	S-25
ALLOWABLE MANHOLE HEIGHTS	S-29
LOCATING MANHOLE FRAME AND COVER	S-30
NON-REINFORCED PRECAST CONCRETE SEWER MANHOLE	S-35

COUNTY OF LOS ANGELES, CALIFORNIA

THOMAS A. TIDEMAN, DIRECTOR
DEPARTMENT OF PUBLIC WORKS

CHARLES W. CARRY, CHIEF ENGINEER

CO. SAN DIST. NO. 15

APPROVED Dean Efthimiou 9/21/89 (DATED)
CHECKED Tom Gerald Ofsthun 9/22/89 (DATED)
APPROVED Jerry Lau ON BEHALF OF BOARD OF SUPERVISORS
DATE 9/28/89

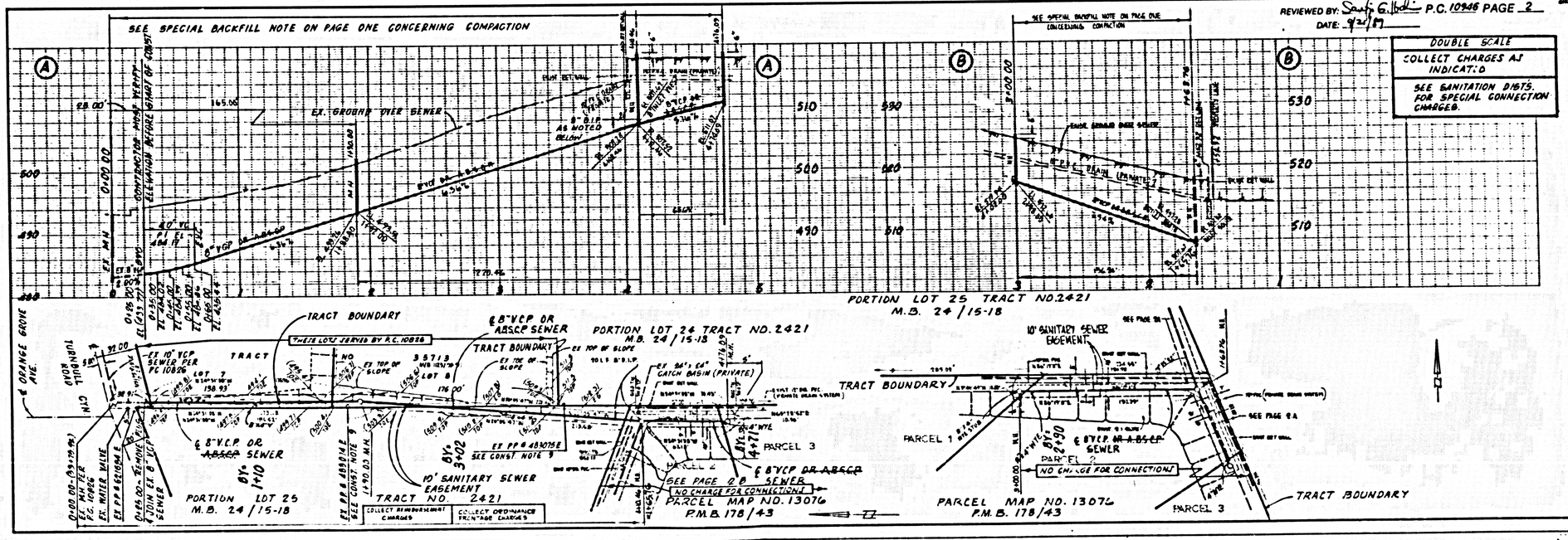
RCE C.E. NO. 18116

LA PUENTE BLDG. DIST. 2.00

REVIEWED BY: Sandy G. Wadi P.C. 10946 PAGE 2
DATE: 9/21/89

DOUBLE SCALE
COLLECT CHARGES AS INDICATED
SEE SANITATION DIST'S. FOR SPECIAL CONNECTION CHARGES.

SEE SPECIAL BACKFILL NOTE ON PAGE ONE CONCERNING COMPACTION



JN 182

TRACT No.

BC 10946