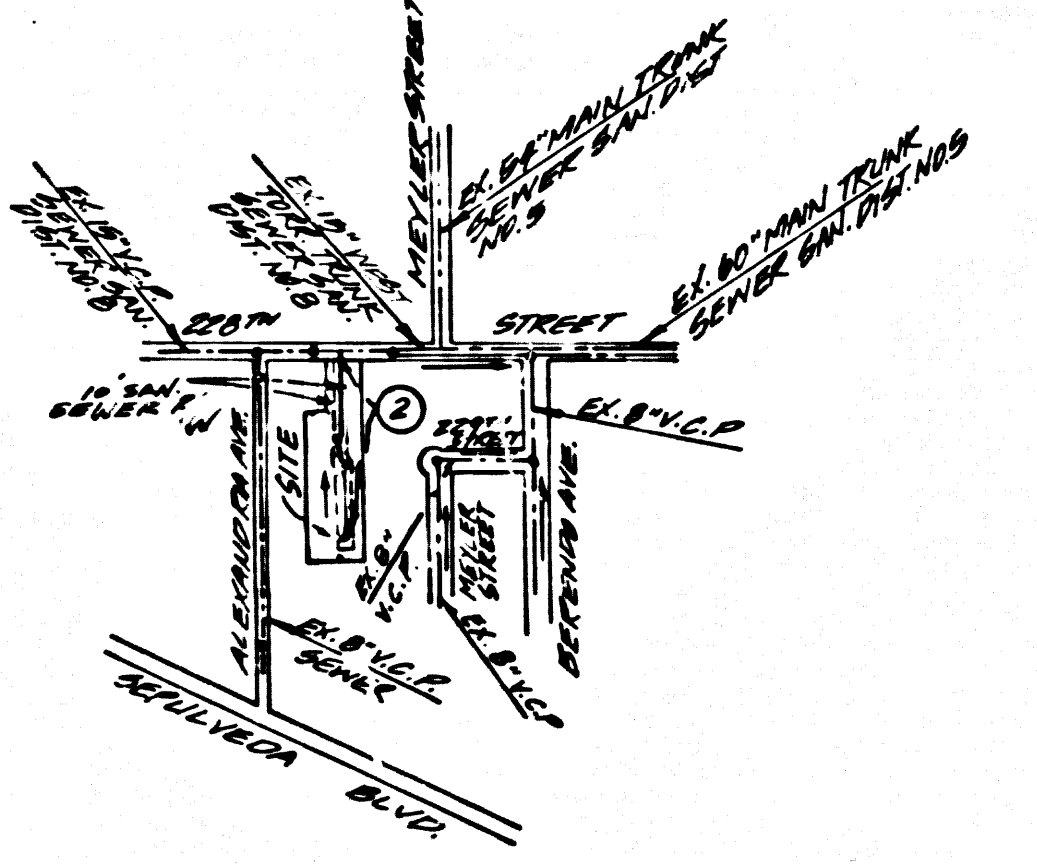


B.M. C.I. 0474 ELEV. 44.022
 6' DIA. IN C.B. @ 5' IN CORNER
 NORMANIDE AVE. AND 233RD
 ST. 2' DIA. C.B. R.C. 6534
 4' 30" DIA. INTER.
 GARDENA QUAD. 19 80



INDEX MAP
 SCALE: 1" = 600'

P.C. 10796 - TRACT NO. 45206
 NOTE: NUMBER IN CIRCLE INDICATES
 PAGE NUMBER

STANDARD PLANS

IN ADDITION THE FOLLOWING COUNTY SANITATION
 DISTRICT STANDARDS SHALL APPLY TO THE
 CONSTRUCTION OF THIS PROJECT.
 CORE DRILL 5-9-80

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 ADVISED TO TAKE THE NECESSARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITIES OF RECORD ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "UNDERGROUND UTILITY ALERT" AT 1-800-421-1131 TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

REGISTERED ENGINEER R.C.E. NO.

GENERAL NOTES CONT.

CONSTRUCTION NOTES CONT.

- ALL REFERENCES ON THIS PLAN TO THE COUNTY ENGINEER, THE ROAD DEPARTMENT OR THE FLOOD CONTROL DISTRICT SHALL APPLY TO THESE APPROPRIATE SECTIONS OF THE DEPARTMENT OF PUBLIC WORKS.
- FULL COMPLIANCE WITH PART IV OF THE SPECIAL PROVISIONS REQUIRED FOR THE INSTALLATION OF A B.S. COMPOSITE PIPE.
- MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
- A.B.S. SOLID WALL PIPE MUST BE USED FOR ALL HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
- A.B.S. COMPOSITE PIPE SHALL BE BEDED TO CONFORMANCE WITH THE TABLE IN SECTION B-2 PART IV OF THE SPECIAL PROVISIONS.
- THREE DEGREE DEFLECTION COEFFICIENTS ARE REQUIRED FOR RADII OF CURVATURE LESS THAN 300 FEET WHEN USING A.B.S. COMPOSITE PIPE.
- NO CONNECTIONS FOR DISPOSAL OF INDUSTRIAL WASTE IS ALLOWED IF A.B.S. COMPOSITE PIPE IS USED.
- 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.
- ALL WYE AND HOUSE LATERALS ARE TO BE LOCATED AT LEAST FIVE FEET APART AND WHEN POSSIBLE NOT CLOSER THAN 10 FEET TO ANY MANHOLE.
- A.B.S. SOLID WALL PIPE IS NOT ACCEPTABLE FOR USE AS MAINLINE SEWER.
- 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.

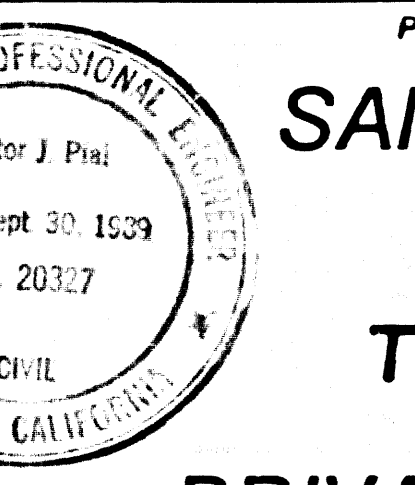
BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (213) 638-1161 SO THAT REQUIRED INSPECTION CAN BE MADE.

GENERAL NOTES:

- ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1988.
- NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DEPT. OF PUBLIC WORKS.
- NO REPRESENTATIVE OF THE DEPT. OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
- GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTERLINE OF STREETS OR CENTERLINE OF ALLEYS ARE SHOWN BY CIRCLES AND PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
- THE PRIVATE ENGINEER SHALL FURNISH THE DEPT. OF PUBLIC WORKS WITH GRADY SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND 12" OR 15" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING LINE 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 CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
- 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.
- BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE COUNTY DIVISION OF PUBLIC WORKS. THE PERMITTING FEE IS \$100.00 PER DAY. THE PERMIT MUST BE OBTAINED AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- 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.
- 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.
- REFER TO SECTION 7104.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
- PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPT. OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE COUNTY ENGINEER AT THE POINT OF PUBLIC WORKS, A PERMIT FOR EXCAVATION AND TRENCHES FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS. SEE ST. 10796-80, ALHAMBRA, CA. THESE PERMITS MUST BE OBTAINED AND FILED WITH THE COUNTY ENGINEER 30 DAYS PRIOR TO CANCELLATION OF PERMIT.

CONSTRUCTION NOTES:

- WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988) EDITION, JANUARY 1988, SUPPLEMENTING THE STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPTEMBER 21, 1979 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEPT. OF PUBLIC WORKS.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION OF PUBLIC WORKS DEPT. TEL. 444-8889 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
- WYE OR THE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
- WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS IF A B.S. C.P. IS USED.
- ALL STRUCTURES SHALL BE EITHER BARS OR PRECAST CONCRETE MANHOLES PER 5-26, EXCEPT AS NOTED.
- PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
- MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
- WITNEFIED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "S" PER STANDARD SPECIFICATIONS SECTION 306-2.
- IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 5-23, CASE 8, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
- IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAINLINE OR HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 5-23, CASE 8 UNLESS OTHERWISE APPROVED BY THE DEPT. OF PUBLIC WORKS.
- ALL JOINTS BETWEEN CAST IRON PIPE AND WITNEFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE, JOINT TYPE "C" OR "D" WITH BUSHING IF NECESSARY PER STANDARD SPECIFICATIONS SECTION 306-2.
- ALL JOINTS BETWEEN CAST IRON PIPE & A.B.S. C.P. SHALL BE MADE WITH APPROVED FITTINGS.
- SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY STANDARD SPECIFICATIONS FOR CALIFORNIA STATE HIGHWAY REPAIRMENTS IN ACCORDANCE WITH PERMITS.
- FULL COMPLIANCE WITH SECTION 306-1.2.4 OF THE STANDARD SPECIFICATIONS 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.
- SPECIAL BACKFILL IN EASEMENT CONSTRUCTION IN 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 OR BY THE ENGINEER. THE DIVISION OF ALL BACKFILL AND EARTH REPLACEMENT SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. 1510 METHOD OF TEST D98 S75 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION OF PUBLIC WORKS DEPT.



PROFILE, ALIGNMENT AND GRADE OF
SANITARY SEWERS
 TO BE CONSTRUCTED IN

TRACT NO. 45206
 PRIVATE CONTRACT NO. 10796
 C-33, B-5

1 SHEET ; 2 PAGES
 52339

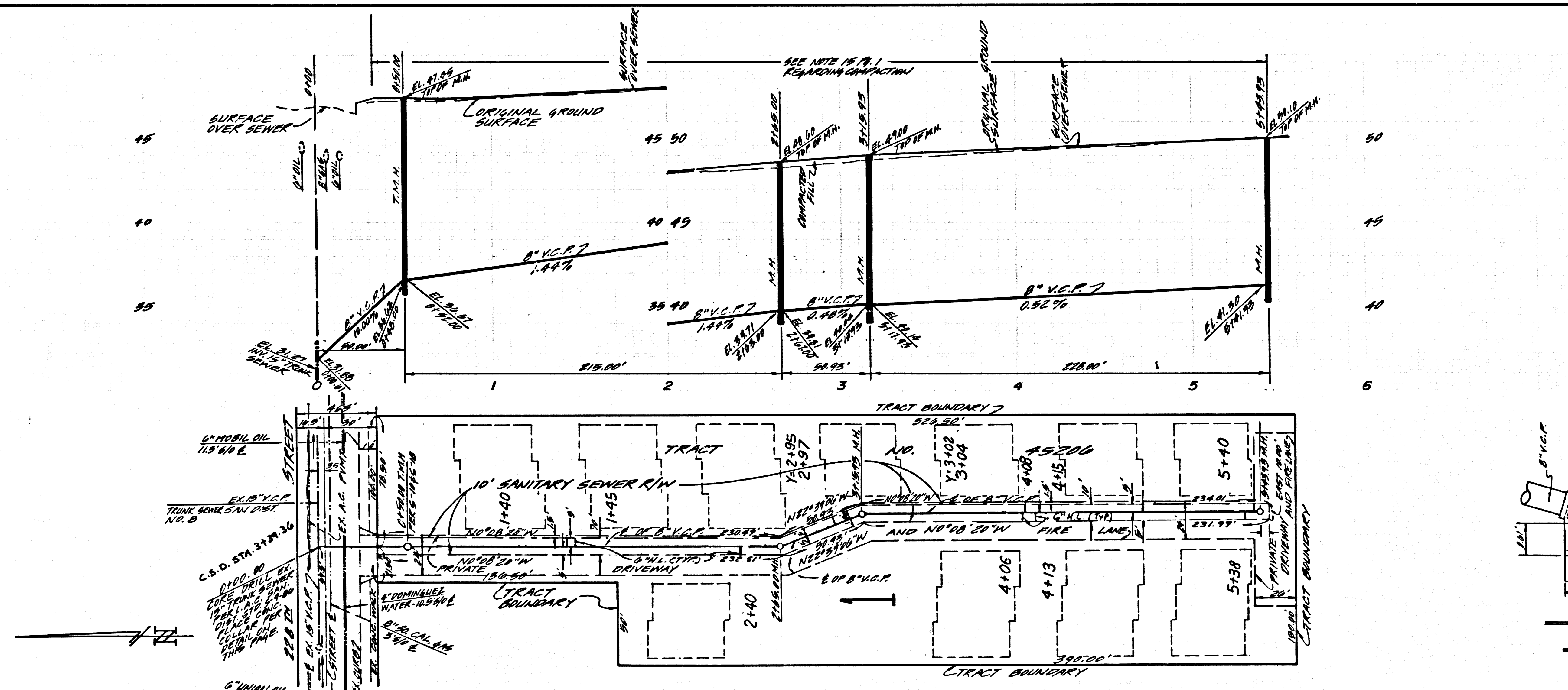
SCALE: HORIZ. 1" = 40'
 VERT. 1" = 4'
 NOVEMBER, 1987

PREPARED IN THE OFFICES OF
COMPASS ENGINEERING CO., INC.
 200 PIER AVENUE, SUITE 40, HERMOSA BEACH, CA. 90254
 PH. NO. (213) 374-9781
 BY: *Victor J. Pini*
 VICTOR J. PINI, REG. C.E. NO. 20327
 EXPIRES 9-30-89

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

LEGEND	NO.
MINIMUM PUBLIC SAFETY REQUIREMENTS	5-1
BRICK MANHOLE	5-2
STANDARD MANHOLE STEP	5-7
BEDDING FOR SEWER PIPE	5-21
GRADING AND ENCASUREMENT	5-23
WYE OR TEE SUPPORT	5-26
ALLOWABLE TRENCH WIDTHS	5-29
LOCKING MANHOLE FRAME AND COVER	5-36
NON-REINFORCED PRECAST CONCRETE MANHOLE	5-38
TRAP AND WASTE GAS TESTING	5-48
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COUNTY OF LOS ANGELES, CALIFORNIA
 THOMAS A. THREMANSON, DIRECTOR OF PUBLIC WORKS
 APPROVED: *Dean E. Johnson* 4-1-88
 CHECKED: *Edward Johnson* 3/21/88
 REG. C.E. NO. 52340
 LOMITA BLDG. DIST. 12



P.C. 10796 PAGE 2
 REVIEWED BY: *Sally G. Hill* DATE: 3-31-88

NO L.A. OR CHANGE FOR CONNECTION
 SEE COUNTY SANITATION DISTRICTS FOR SPECIAL CONNECTION DETAILS

52340

