



THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT DOES NOT CONSTITUTE RESPONSIBILITY OF THE ENGINEER.

**TESTING PER LAS VIRGENES MUNICIPAL WATER DISTRICT**

**1. INFILTRATION AND LEAKAGE TEST**  
 METHOD USED FOR TESTING WILL BE THE SAME AS LOS ANGELES COUNTY EXCEPT THE FORMULA TO BE USED IS AS FOLLOWS:  
 0.83 GALLONS / MINUTE / INCH OF DIAMETER / 1000 FEET OR 250 GALLONS / DAY / INCH OF DIAMETER / MILE.

**2. MANHOLE LEAKAGE TEST**  
 AT THE DISCRETION OF THE DISTRICTS REPRESENTATIVE ONE MANHOLE OUT OF EVERY TEN MANHOLES AND A MINIMUM OF TWO WILL BE FILLED WITH WATER AND AFTER THREE HOURS WILL BE CHECKED FOR LEAKAGE WITH NO DROP IN LEVEL. FOR EVERY MANHOLE NOT PASSING TESTS, FIVE MORE WILL BE TESTED AT THE DISCRETION OF THE DISTRICTS REPRESENTATIVE.

**3. AIR TESTING**  
 WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INVERT OF THE UPPER STRUCTURE AND THE INVERT OF THE LOWER STRUCTURE IS MORE THAN SIX FEET (6') AN AIR TEST WILL BE MADE. THE TIME TAKEN TO LOSE ONE (1) POUND PER SQUARE INCH GAUGE PRESSURE FROM THREE (3) POUNDS PER SQUARE INCH GAUGE PRESSURE TO TWO (2) POUNDS PER SQUARE INCH GAUGE PRESSURE SHALL NOT BE LESS THAN TIMES SHOWN ON THE FOLLOWING TABLE:

MAIN PIPE DIAMETER	MINIMUM TIME LOSE
15" - 20"	1 MINUTE
21" - 30"	2 MINUTES
31" - 36"	3 MINUTES
	4 MINUTES

IF THE TIME IS LESS THAN LISTED IN THE TABLE ABOVE, THE CONTRACTOR SHALL MAKE SUCH REPAIRS AS ARE NECESSARY TO ELIMINATE EXCESSIVE LEAKAGE.

REVISION PAGE 11 (8) ADD 78' OF 8" V.C.P. TO SOUTH OF STA. 18+42.54 JUNE 18, 1967  
 PAGE 12 DELETE SEWER FROM STA. 18+42.54  
 APPROVED: [Signature] OFFICE OF COUNTY ENGINEER R.C.E.M. 10653

**DOUBLE SCALE**  
**CALABASAS BLDG. DIST. NO. 9.1**

PROFILE, ALIGNMENT AND GRADE OF  
**SANITARY SEWERS** PAGE 1  
 TO BE CONSTRUCTED IN

**SANITARY SEWER R/W**  
**PRIVATE CONTRACT NO. 7805**

W.S. 93  
 6 SHEETS, 11 PAGES  
 SCALE: VERT. 1" = 8' HORIZ. 1" = 40'

PREPARED IN THE OFFICES OF  
 MCINTIRE AND QUIROS, INC.  
 670 MONTEREY PASS ROAD  
 MONTEREY PARK, CALIF.  
 TEL. 283-7661, 289-5111

FOR LEGEND SEE PLAN NO. S-1

- NOTE:
- PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
  - NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
  - THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY 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.
  - NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
  - THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-477, EXT. 8151, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
  - ALL STRUCTURES SHALL BE BETWEEN 18" V.C.P. MANHOLES PER S-23 OR PRECAST CONCRETE MANHOLES PER S-23 OR S-24 EXCEPT AS NOTED.
  - USE STANDARD MANHOLE FRAMES AND COVERS, S-15 EXCEPT AS NOTED.
  - MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
  - USE EXTRA STRENGTH PIPE. ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
  - USE MECHANICAL COMPRESSION JOINTS FOR ALL V.C.P. JOINTS PER SPEC., SECS. 34, 36, 48 & 49.
  - IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, 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 MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
  - HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 4 FEET BELOW CURB GRADE, OR GRADE OF FLOOR OF DWELLING, WHICHEVER IS LOWER.
  - RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET A COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
  - FOR ALLOWABLE LEAKAGE TEST USE FORMULA NO. 2, SPEC. S. 34.
  - ALL STATE AND LOCAL TRENCH SAFETY ORDERS WILL BE STRICTLY ENFORCED.
  - CONSTRUCTION IN HILLS AREAS:
    - AN ACCEPTABLE CERTIFICATION OF COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION. COMPACTION TESTS ARE TO BE MADE IN ACCORDANCE WITH A S.T.M. STANDARD METHOD OF TEST S-69-47.
    - NO CONSTRUCTION IS PERMITTED IN HILLS AREAS WHERE THE RELATIVE DENSITY OF COMPACTION IS LESS THAN 90%.
    - IF THE RELATIVE DENSITY OF COMPACTION IS LESS THAN 90%, ALL MAIN LINE AND HOUSE LATERALS SHALL BE GRADED PER S-23 OR HAVE A SPECIAL AGGREGATE BASE PER S-31, CASE III. SPECIAL MANHOLE BASES PER S-14 ARE REQUIRED.
    - IF THE RELATIVE DENSITY OF COMPACTION IS 90% OR GREATER, THE SPECIAL PROVISIONS IN 10-A ARE NOT REQUIRED.
  - ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLAVEE JOINT (WITH HOOPS IF NECESSARY) PER STANDARD SPECIFICATIONS SECTION 30 OR APPROVED EQUAL.

NOTE: GRADES TO WHICH THE IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON 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. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL UNLESS OTHERWISE NOTED.

THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS FOR THE WORK TO BE CONSTRUCTED. THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 31, AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 380 COUNTY ENGINEERING BUILDING, 108 WEST SECOND STREET OF THE COUNTY OF LOS ANGELES DISTRICT OFFICE, SUFFICIENT TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.

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.

IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 128 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.

COUNTY OF LOS ANGELES, CALIFORNIA  
 JOHN A. LAMBIE, COUNTY ENGINEER  
 LAS VIRGENES MUNICIPAL WATER DISTRICT

APPROVED BY: [Signature] ASSISTANT SANITATION ENGINEER  
 APPROVED BY: [Signature] GENERAL MGR. CHIEF ENGINEER

SUBMITTED BY: [Signature] REGIONAL ENGINEER  
 CHECKED BY: [Signature] REG. C.E. NO. 10653

**COLLECT CHARGES AS INDICATED**  
 1/21 June 5/15/67

**DO NOT ISSUE HOUSE CONNECTION PERMITS UNTIL OUTLET IS AVAILABLE**

J.N. 0368.24





















