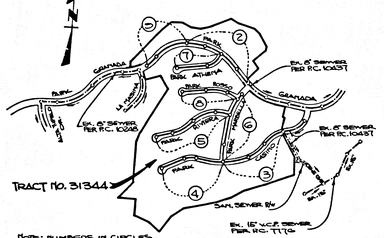
B.M. B.T. 10013 ELEV. 1027.800
L & BR IN CONC. CB 47 FT S/O
PARK GRANADA & 45 FT W/O
PARKWAY CALABASAS

MALIBU QUAD. 19-2

PAGE 4	REVISE ALIGNMENT & GRADES OF BOTH STREET & SEWER MAINLINE FROM STA. 6+70.07 TO 12+18.77
PAGE 5	REVISE ALIGNMENT & GRADES OF BOTH STREET & SEWER MAINLINE FROM STA. 5+21.56 TO 21+34.21

REVISION NO. 1
APPROVED BY: Sanjiv G. Ibali
DEPT. OF PUBLIC WORKS
DATE: 4/8/86



NOTE: NUMBERS IN CIRCLES INDICATE PAGE NUMBERS

INDEX MAP
TRACT NO 31344
P.C. 10481
SCALE: 1"=600'

ISSUE NO HOUSE CONNECTION PERMITS UNTIL P.C. 10431 IS ACCEPTED FOR USE BY L.A. COUNTY

ISSUE PERMITS TO LOTS 1, 2 & 3 FROM P.C. 10431, PAGE 4 AND TO LOT 66 FROM P.C. 10248, PAGE 35

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 take due precautionary measures to protect the utility lines shown and any other 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.

Registered Engineer R.C.E. No. 19233

CONSTRUCTION NOTES CONT'D.

16. FULL COMPLIANCE WITH PART IV 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 D-3.1. OF PART IV OF THE SPECIAL PROVISIONS.
20. THREE DEGREE DEFLECTION COUPLERS ARE REQUIRED FOR RADIUS OF CURVATURE LESS THAN 380 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 & 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.
26. TESTING PER LAS VIRGENES MUNICIPAL WATER DISTRICT
    A. INFILTRATION & LEAKAGE TESTS: METHOD USED FOR TESTING WILL BE THE SAME AS L.A. COUNTY EXCEPT THE FORMULA TO BE USED IS AS FOLLOWS:
       0.033 GALLONS/MINUTES/INCH OF DIAMETER/1,000 FEET
       OR
       250 GALLONS/DAY/INCH OF DIAMETER/MILE
    B. MANHOLE LEAKAGE TESTS: AT THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE ONE MANHOLE OUT OF EVERY TEN MANHOLES AND A MINIMUM OF TWO WILL BE FILLED WITH WATER & AFTER THREE HOURS WILL BE CHECKED FOR LEAKAGE WITH NO DROP IN LEVEL. FOR EVERY ONE MANHOLE NOT PASSING TESTS, FIVE MORE WILL BE TESTED AT THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
    C. AIR TESTING: WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INVERT IF THE UPPER STRUCTURE & THE INVERT OF THE LOWER STRUCTURE IS MORE THAN SIX (6) FEET, 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:

PIPE DIAMETER	MINIMUM TIME LOSS
8" - 12"	1 MINUTE
15" - 20"	2 MINUTES
21" - 30"	3 MINUTES
33" - 36"	4 MINUTES

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

* NOTE NO. 26 APPLIES ONLY TO SEWERS OWNED, OPERATED AND MAINTAINED BY L.V.M.W.D.

GENERAL NOTES:

DOUBLE SCALE

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 REPRESENTATIVE 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 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.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPT. OF PUBLIC WORKS WITH GRADE SHEETS & STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "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.
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 ROAD ELEMENT OF THE L.A. DEPT. OF PUBLIC WORKS, DIST. OFFICE NO. 3, AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS, 550 S. VERMONT AVE., LOS ANGELES, CA 90020, 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 ORDERS.
11. PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE COUNTY ENGINEER COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE LOS ANGELES COUNTY ROAD DEPARTMENT, A PERMIT FOR EXCAVATIONS 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, 550 SOUTH VERMONT AVE., LOS ANGELES, CALIFORNIA 90020, NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF POLICY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1985 EDITION W/SUPPLEMENTS) & DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPT. 21, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIV. - PUBLIC WORKS DEPT. TEL. (213) 226-8281 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 8 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
4a. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS IF A.B.S.C.P. IS USED.
5. ALL STRUCTURES SHALL BE EITHER BRICK SEWER MANHOLES PER S-3 OR PRECAST CONC. SEWER MANHOLES PER S-36, EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "G" PER STANDARD SPECIFICATIONS SECTION 308-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II. TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. 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 SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D". (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS SECTION 208-2.
11a. ALL JOINTS BETWEEN CAST IRON PIPE, B.&.B.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.6 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY PUBLIC WORKS OR CALIF. STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.3.5 OF THE SPECIAL PROVISIONS WILL BE REQUIRED 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.
15. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION (A) 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 BUILDING AND SAFETY DIVISION (B) 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 D698-57T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIV.-PUBLIC WORKS DEPT.

PROFILE, ALIGNMENT AND GRADE OF

PAGE 1

SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT NO. 31344

PRIVATE CONTRACT NO. 10481

C-232-G, H-2,3
W.S. 159-077
5 SHEETS, 9 PAGES

SCALE: VERT. 1"=8' HORIZ. 1"=40'

JANUARY, 1986

PREPARED IN THE OFFICES OF

LIND & HILLERUD, INC.
2065 HUNTINGTON DRIVE
SAN MARINO, CA 91108

BY: JOHN N. SARRACINO
REG. C.E. NO. 19233

REGISTERED PROFESSIONAL ENGINEER JOHN N. SARRACINO No. 19233 Exp. 9-30-88 CIVIL STATE OF CALIFORNIA

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:

SIGNS	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK SEWER MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-31
CRADLING AND ENCASEMENT	S-32
WYE OR TEE SUPPORT	S-34
ALLOWABLE TRENCH WIDTHS	S-35
LOCKING MANHOLE FRAME AND COVER	S-36
NON-REINFORCED PRECAST CONCRETE SEWER MANHOLE	S-36

51898

COUNTY OF LOS ANGELES, CALIFORNIA

THOMAS A. TIDEMANSON, DIRECTOR, DEPARTMENT OF PUBLIC WORKS

LAS VIRGENES MUNICIPAL WATER DISTRICT

APPROVED Carl L. Blum 7/24/86 (DATE)

APPROVED H.W. Stokes
H.W. STOKES, CHIEF ENGINEER
DATE: 11-3-86

CHECKED Kenneth Fisher 7/24/86 (DATE)

BRD. C.E. NO. 16841

CALABASAS BLDG. DIST. 9.1

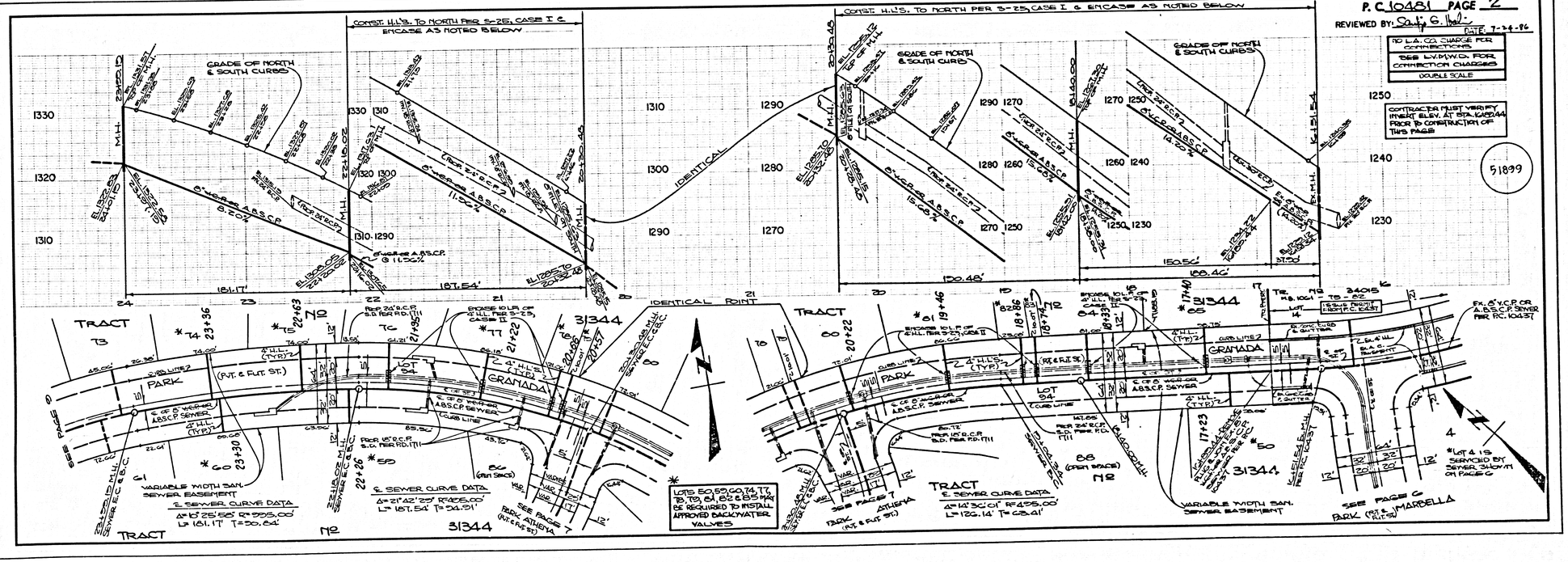
P.C. 10481 PAGE 2

REVIEWED BY: Sanjiv G. Ibali DATE: 7-24-86

NO L.A. CO. CHARGE FOR CONNECTIONS
SEE L.V.M.W.D. FOR CONNECTION CHARGES
DOUBLE SCALE

CONTRACTOR MUST VERIFY INVERT ELEV. AT STA. 1+22.44 PRIOR TO CONSTRUCTION OF THIS PAGE

51899



L.A. COUNTY SEWER DIST. NO. 1

TRACT NO 31344

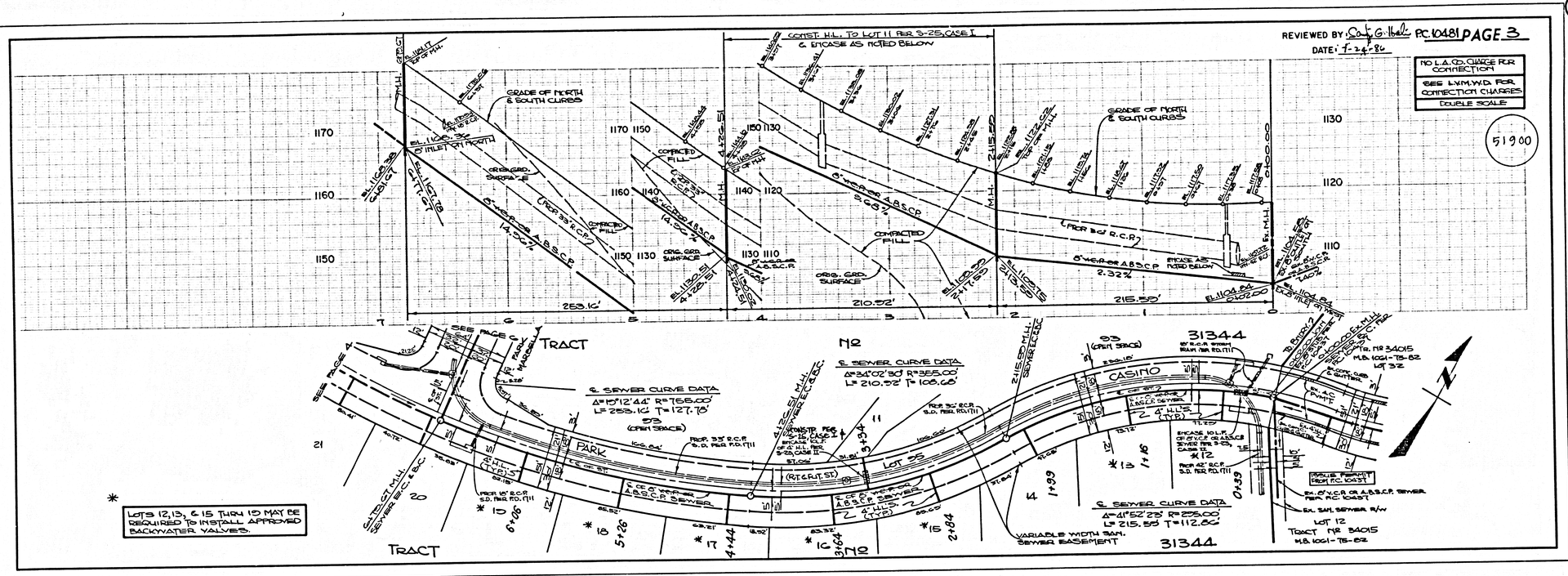
TRACT 31344

B.C. 10481

REVIEWED BY: Scott G. Ibele PC 10481 PAGE 3
DATE: 7-24-86

NO L.A. CO. CHARGE FOR CONNECTION
SEE L.V.M.W.D. FOR CONNECTION CHARGES
DOUBLE SCALE

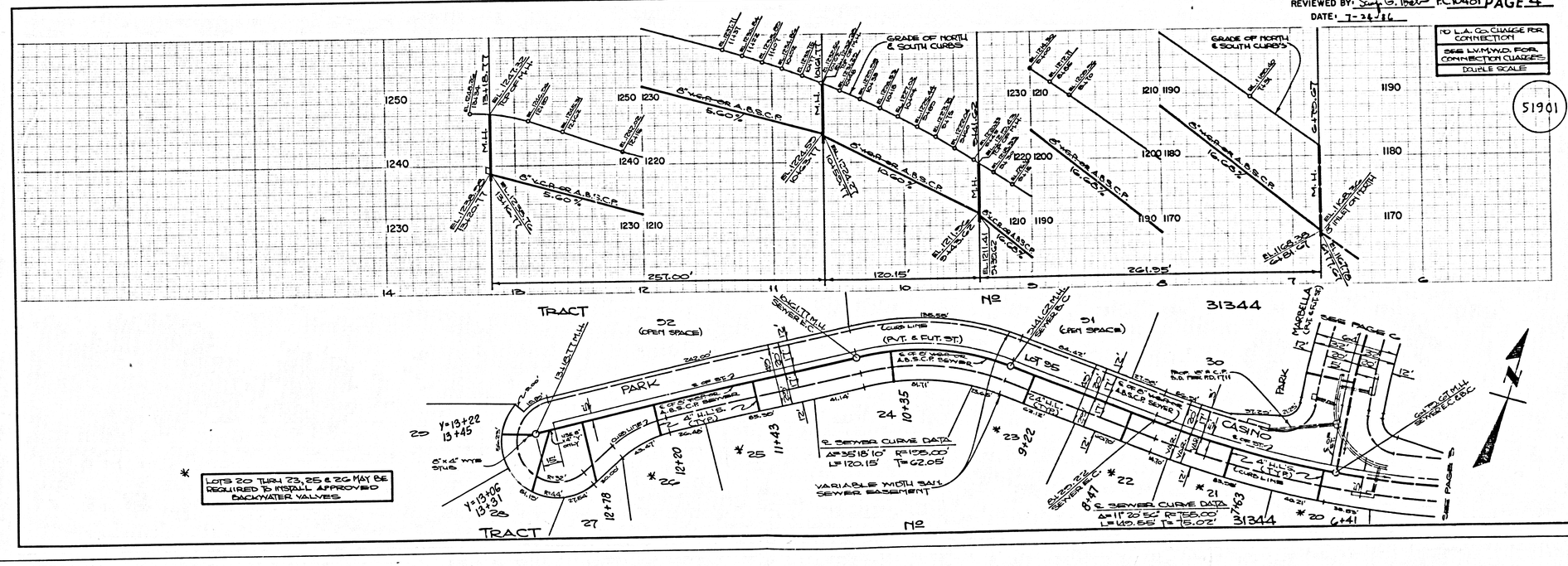
51900



REVIEWED BY: Scott G. Ibele PC 10481 PAGE 4
DATE: 7-24-86

NO L.A. CO. CHARGE FOR CONNECTION
SEE L.V.M.W.D. FOR CONNECTION CHARGES
DOUBLE SCALE

51901



L.A. COUNTY SEWER SHEET NO. 2

L.A. COUNTY SEWER SHEET NO. 2

P.C. 10481

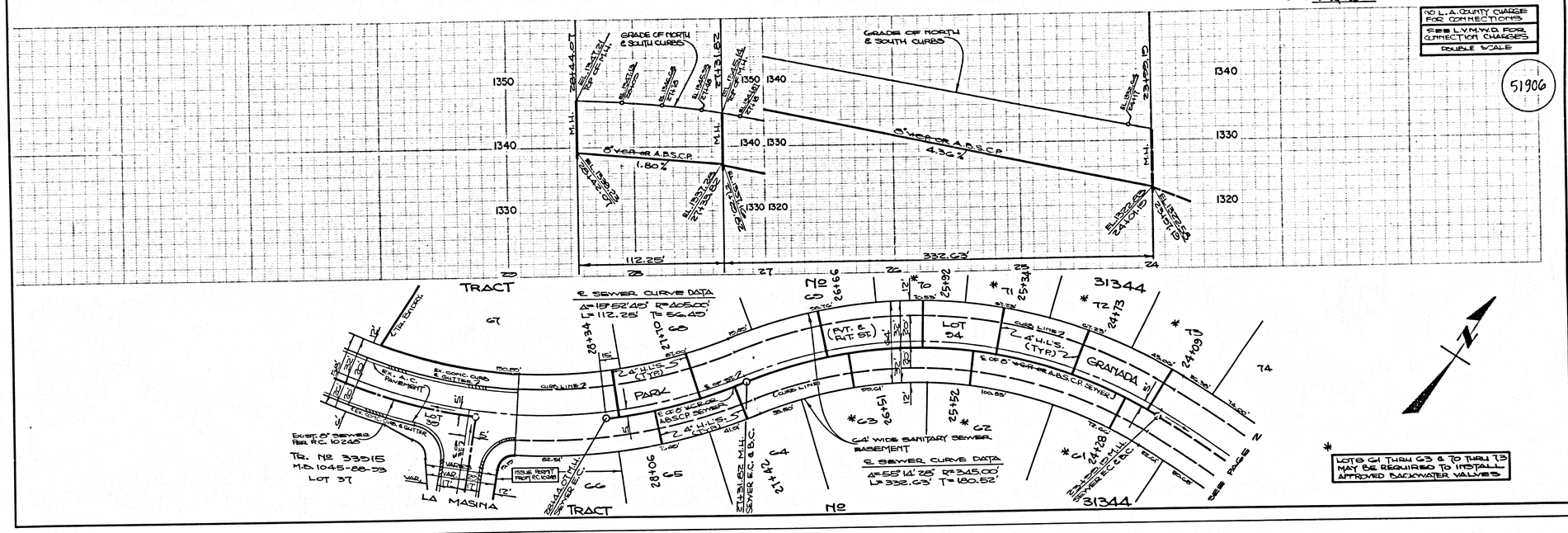
TRACT NO 31344

L.A. COUNTY SEWER SHEET NO. 8

REVIEWED BY: Sanjiv G. Ibale P.C. 10481 PAGE 3
DATE: 1-24-96

NO L.A. COUNTY CHARGE FOR CONNECTIONS
FEE L.V.M.W.D. FOR CONNECTION CHARGES
DOUBLE SCALE

51906



PAGE

L.A. COUNTY SEWER SHEET NO. 2

P.C. 10481

TRACT 31344

P.C. 10491 PAGE 7

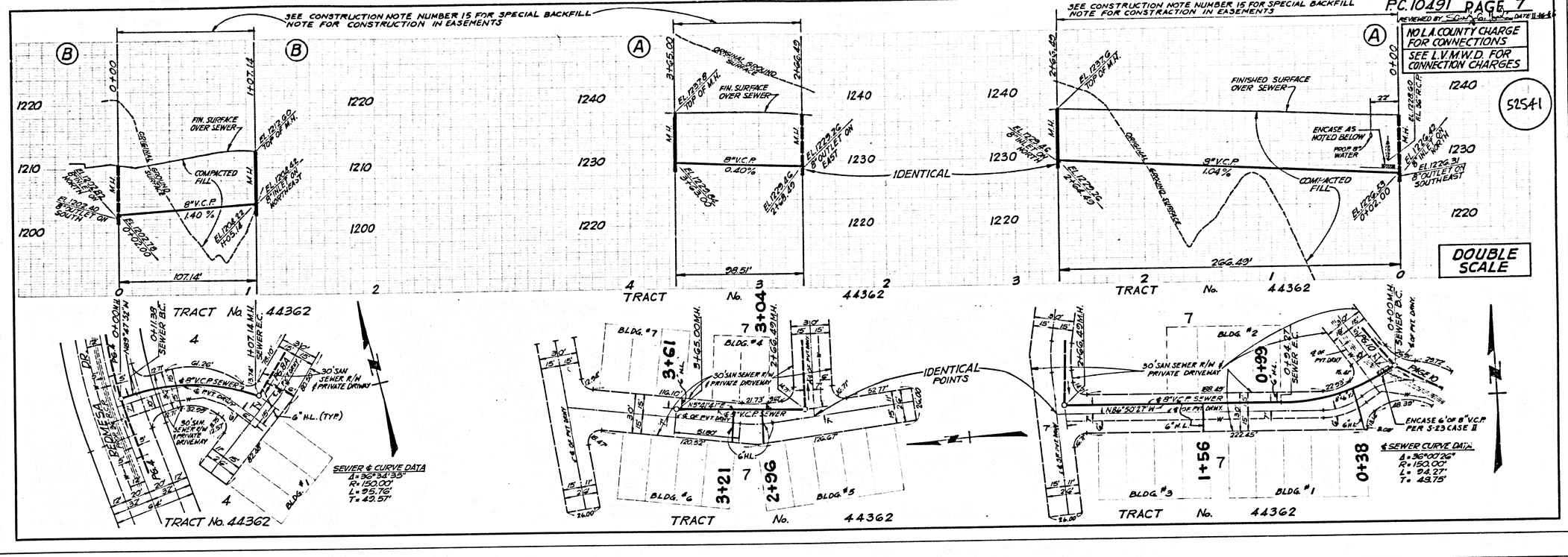
REVIEWED BY [illegible] DATE 11-16-8

NO L.A. COUNTY CHARGE FOR CONNECTIONS

SEE L.V.M.W.D. FOR CONNECTION CHARGES

52541

DOUBLE SCALE



P.C. 10491 PAGE 8

REVIEWED BY [illegible] DATE 11-16-8

NO L.A. COUNTY CHARGE FOR CONNECTIONS

SEE L.V.M.W.D. FOR CONNECTION CHARGES

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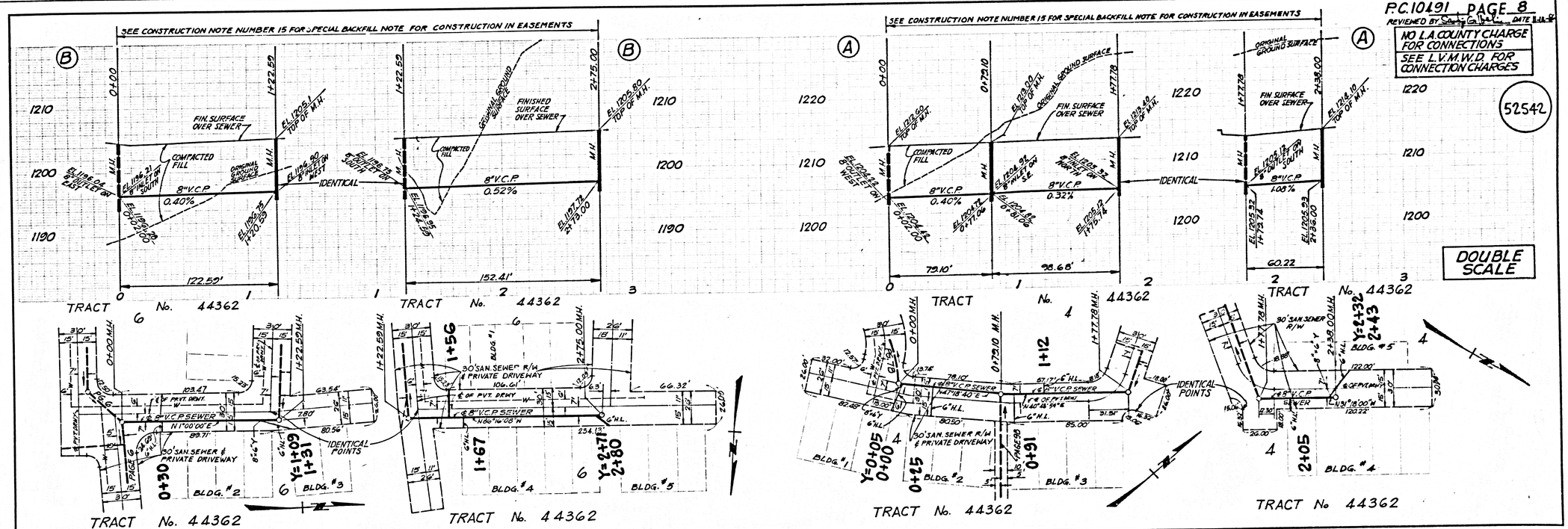
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