

SANITARY SEWERS

TO BE CONSTRUCTED IN
TRACT NO. 41178

PRIVATE CONTRACT NO. 10420
C-221, C2
2 SHEETS, 3 PAGES

SCALE: VERT. 1" = 8'
HORIZ. 1" = 40' OCT. 10, 1985

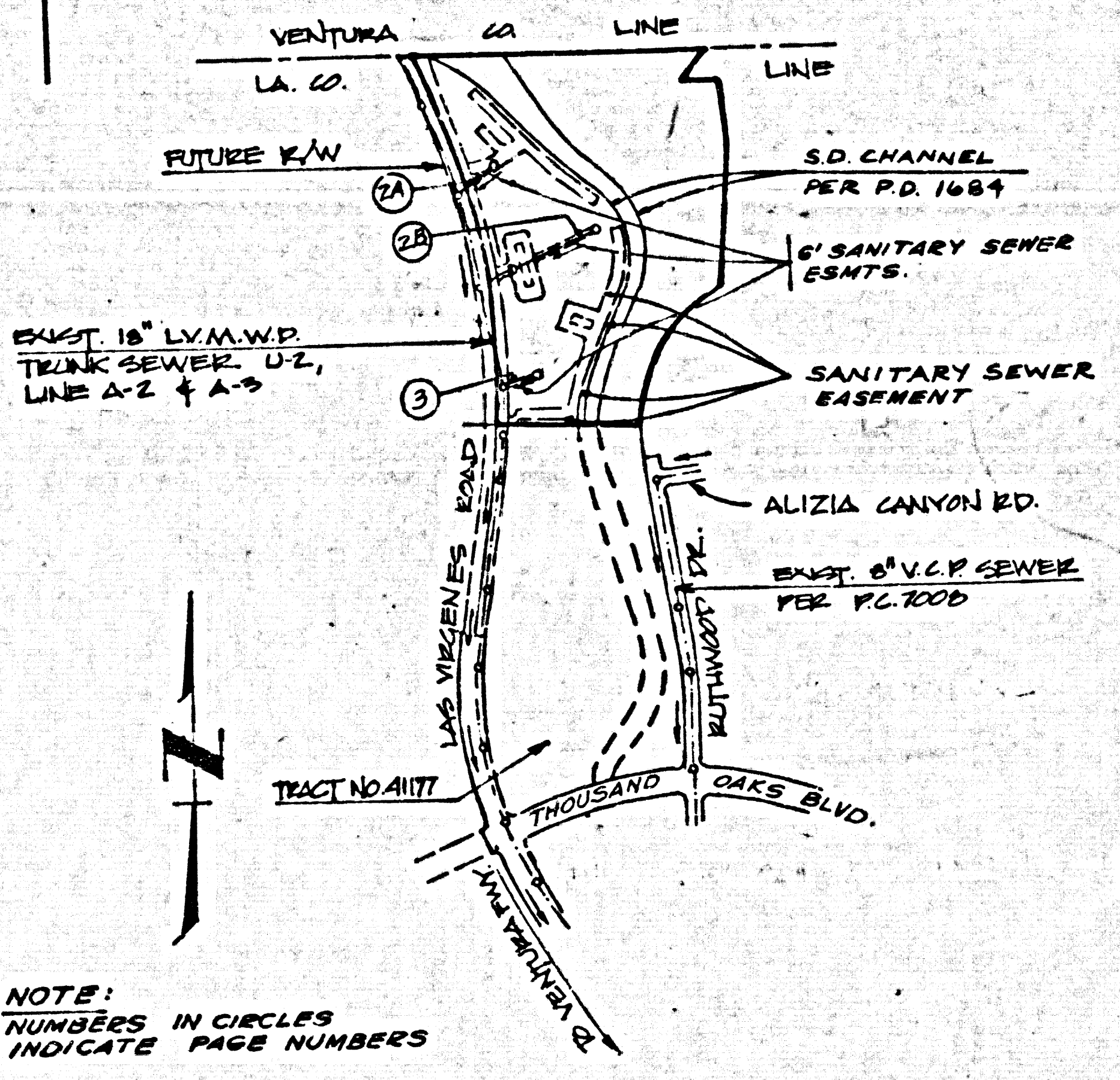
PREPARED IN THE OFFICES OF
CARL CHAPMAN & ASSOCIATES
2346 CORNER AVE., LOS ANGELES, CA. 90064
BY: *[Signature]* REG. C.E. NO. 23177

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 | CA | A/PWA |
| MINIMUM PUBLIC SAFETY REQUIREMENTS | 5-1 | 5-1 |
| BRICK MANHOLE STEP | 5-2 | 5-2 |
| STANDARD MANHOLE STEP | 5-3 | 5-3 |
| BEDDING FOR SEWER PIPE | 5-4 | 5-4 |
| CRADLING AND ENCASUREMENT | 5-5 | 5-5 |
| WYE ON TEE SUPPORT | 5-6 | 5-6 |
| ALL CORNER TRENCH WIDTHS | 5-7 | 5-7 |
| LOCKING MANHOLE FRAME AND COVER | 5-8 | 5-8 |
| NON-REINFORCED PRECAST CONCRETE MANHOLE | 5-9 | 5-9 |
| SPECIAL SUPPORT AND PROTECTION | 5-10 | 5-10 |

COUNTY OF LOS ANGELES, CALIFORNIA
THOMAS A. TIDEMANSON, DIRECTOR OF PUBLIC WORKS
LAS VIRGENES MUNICIPAL WATER DISTRICT
APPROVED: *[Signature]* DATE: 4/1/86
CHECKED: *[Signature]* DATE: 4/3/86
REG. C.E. NO. 16841
CALABASAS BLVD. DIST. 9.1

B.M. CY 9047 ELEV. 792.692
RDBM TAG IN CD 3 FT N BCR 62
47' N & 42' E C/L INT LAS
VIRGENES CYN RD & QUINTANA ST.
MALIBU QUAD. 19 80



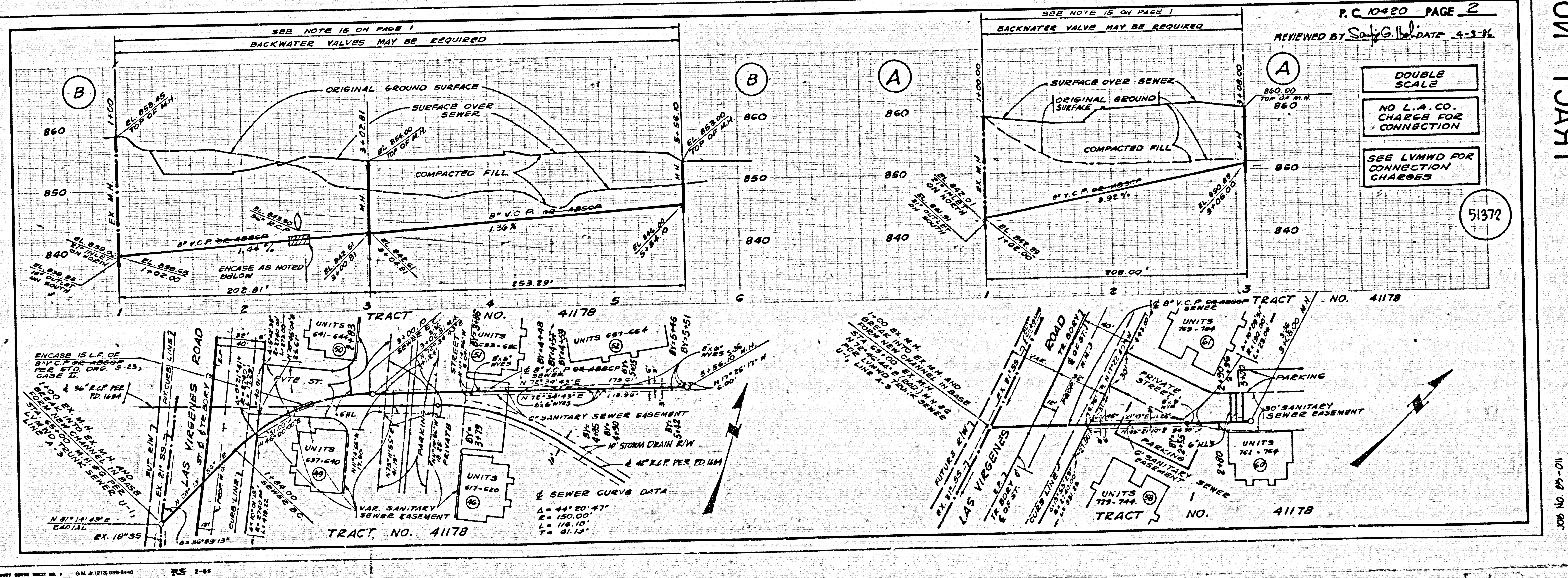
NOTE: NUMBERS IN CIRCLES INDICATE PAGE NUMBERS

- CONSTRUCTION NOTES CONT.**
- 4A. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAINLINE SEWER IF A.B.S.C.P. IS USED.
 - 4A. ALL JOINTS BETWEEN CAST IRON PIPE & A.B.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS.
 - 4A. FULL COMPLIANCE WITH PART II OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE.
 - 4A. MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
 - 4A. A.B.S. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAIN LINE SEWER PIPE.
 - 4A. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION 5-3.1 OF PART II OF THE SPECIAL PROVISIONS.
 - 4A. 3 DEGREE DEFLECTION COUPLERS SHALL BE USED TO ACCOMPLISH RADIUS OF CURVATURE LESS THAN 360°.

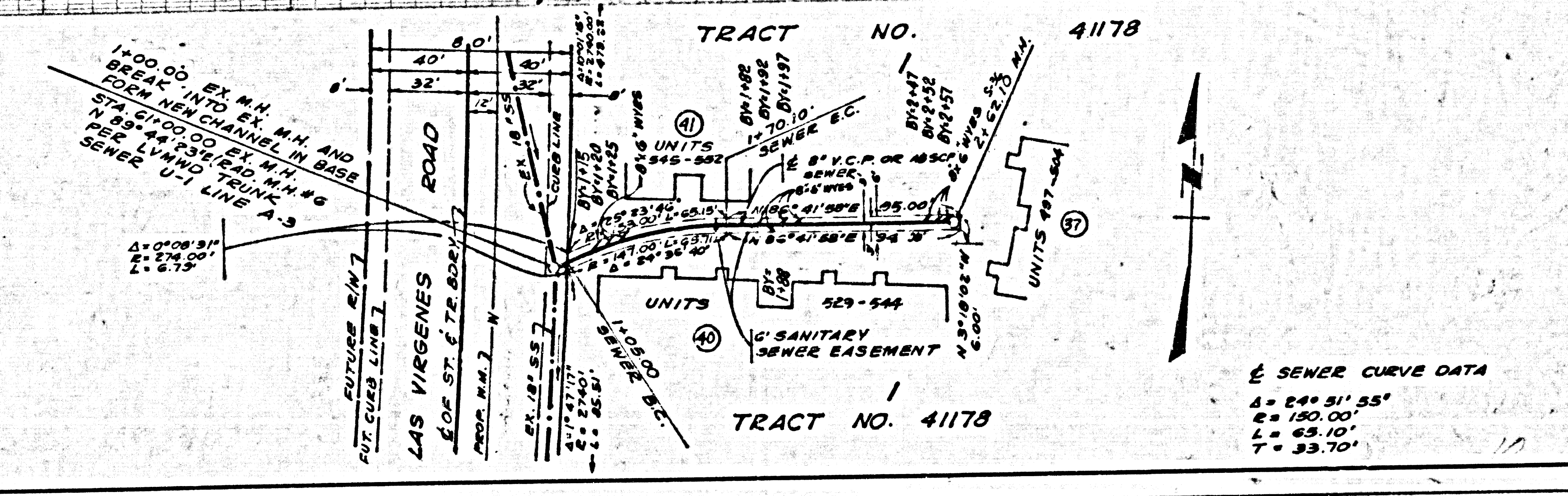
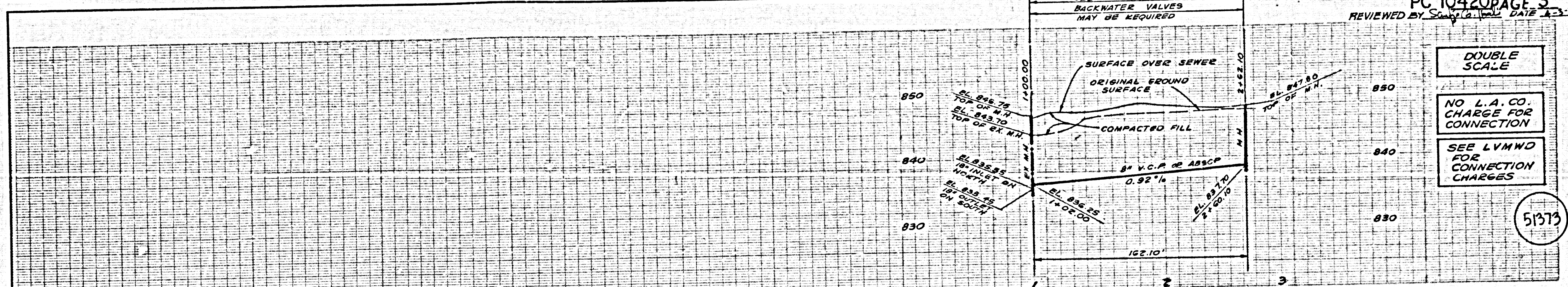
| REVISION NO. 2 DATE: 11/21/86 | |
|---|--|
| PAGE | DESCRIPTION |
| 2A | RELOCATED 6" H.L. DELETED 2" W/TH & ADDED ONE 6" H.L. |
| 2B | RELOCATED 4" H.L. DELETED 1", AND ADDED 5" H.L. W/TH. |
| 2C | RELOCATED 6" H.L., ADDED 1", AND DELETED 4" W/TH. |
| APPROVED: <i>[Signature]</i> DATE: 11/21/86 | |
| REVISION NO. 1 DATE: 4/1/86 | |
| PAGE | DESCRIPTION |
| 2 | REVISED 15' OVER SEWER, SIZE & LOCATION OF H.L.'S & SENSER PROFILE (1) & (2) ADD ONE H.L. ON (3) |
| 3 | REVISED SEWER PROFILE, ALSO SIZE & LOCATION OF H.L.'S ADD ONE H.L. |
| APPROVED: <i>[Signature]</i> DATE: 4/1/86 | |

- GENERAL NOTES:**
1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1988.
 2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
 3. NO REPRESENTATIVE OF THE DEPARTMENT OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
 4. GRADIENTS WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED TO ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURB CENTERLINE OF STREETS OR CENTERLINE OF ALL LAYS ARE SHOWN BY CIRCLES ON PROFILES AT ALL POINTS BETWEEN DESIGNATED POINTS. THE GRADE SHALL BE ESTABLISHED TO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
 5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPARTMENT OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND 10' OR 15' 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 EXCEPT WHERE SHOWN OTHERWISE. THE EXCESSIVE MARKED 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 INDICATED 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 L.A. COUNTY ROAD DEPARTMENT, AND PAY TO THE DEPARTMENT OF PUBLIC WORKS \$60 SOUTH VERMONT, 100 LOS ANGELES, CA 90064 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 BRIDGE 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 2.1.1.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY OF USE.
 11. PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPARTMENT OF PUBLIC WORKS 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 WORKERS COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 580 SOUTH VERMONT, 100 LOS ANGELES, CALIFORNIA 90064, NAMED AS THE INSURANCE 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) AND COUNTY PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED 8/22/84, 8/27/84 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEPARTMENT OF PUBLIC WORKS.
 2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIV. BY TELEPHONE 620-808 AT LEAST TWENTYFOUR HOURS BEFORE STARTING ANY WORK UNDER THE CONTRACT.
 3. HOUSE LATERALS TO BE CONSTRUCTED WITH 1/2" SLOPE PER FOOT TO 2 1/2" H.L. EXCEPT AS NOTED.
 4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MANHOLE SEWERS EXCEPT AS NOTED.
 5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER 5-3 OR PRECAST CONCRETE MANHOLES PER 5-9, 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 UNAPPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
 8. WITHIN CLAY PIPE JOINTS SHALL BE TYPE "O" OR "P" PER STANDARD SPECIFICATIONS SECTION 200-2.
 9. IF POWER POLES WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 5-23, 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 MAINLINE OR HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 5-23, CASE II, UNLESS OTHERWISE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
 11. ALL JOINTS BETWEEN CAST IRON PIPE AND WITHIN CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "O" OR "P", WITH BUSHING IF NECESSARY PER STANDARD SPECIFICATIONS, SECTION 200-3.
 12. SEWERS TO BE TRENCHED PER SECTION 200-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
 13. REINFORCE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
 14. FULL COMPLIANCE WITH SECTION 200-1.3.3 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 PRACTICAL ACCEPTANCE.
 15. SPECIAL BACKFILL IN EXISTING CONSTRUCTION (AS BACKFILL TRENCH) AND REPLACE OTHER BACKFILL 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 (IN ALL BACKFILL AND EARTH REPLACEMENT SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. 99 METHOD OF TEST ONLY) AS ACCEPTED ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO CONSTRUCTION DIVISION.



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