

PLANS FOR STORM DRAIN

TRACT NO. 38331

M.T.D. 898

PREPARED IN THE OFFICES OF
TRI STATE ENGINEERING CO.
615 S. RAYMOND AVENUE, FULLERTON, CA.

BY Robert H. Baker R.C.E. 18618
ROBERT H. BAKER

GENERAL NOTES

1. ALL REINFORCED CONCRETE SHALL BE BUILT IN ACCORDANCE WITH U.S. COUNTY ENGINEER CASE NO. 88000, FIG. D-38.
2. THE COUNTY ENGINEER'S OFFICE SHALL BE ADVISED OF ANY CHANGES TO THE ORIGINAL PLAN BY TELEPHONE OR BY MAIL AT LEAST 72 HOURS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 1979, AND SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE CITY ENGINEER.
4. REINFORCEMENT SHALL BE DETAIL AS SHOWN OR AS APPROVED BY THE COUNTY ENGINEER.
5. ELEVATIONS ARE IN FEET ABOVE U.S. M.S. MEAN SEA LEVEL, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE LOCATION OF ALL UTILITIES AND CONSTRUCTION LIMITS.
7. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER BY TELEPHONE (714) 871-1111 AT LEAST 48 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
8. THIS STORM DRAIN WILL BE ACCEPTED AND MAINTAINED UNTIL THE STREET HAS BEEN PAVED AND THE ROADWAY HAS BEEN GRADED AND THE CURB IS IN PLACE.
9. PERMITS SHALL BE OBTAINED FROM THE COUNTY ENGINEER AND THE COUNTY ROAD DEPARTMENT AND L.A.C.F.D. BEFORE COMMENCING CONSTRUCTION.
10. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
11. ALL STATE AND LOCAL TRENCH SAFETY ORDERS WILL BE RIGIDLY ENFORCED.
12. ALL MANHOLE COVERS NOT IN STREET PAVING SHALL BE PROVIDED WITH ALLEN SOCKET SET SCREW LOCKING DEVICES. THE CONTRACTOR SHALL DRILL AND TAP TWO HOLES TO A DEPTH OF 1 INCH AT 90 DEGREES TO PICK HOLE AND INSTALL 3/4 INCH BY 3/4 ALLEN SOCKET SET SCREWS.
13. ALL PERMITS SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PRIOR TO COMMENCING ANY CONSTRUCTION WORK.

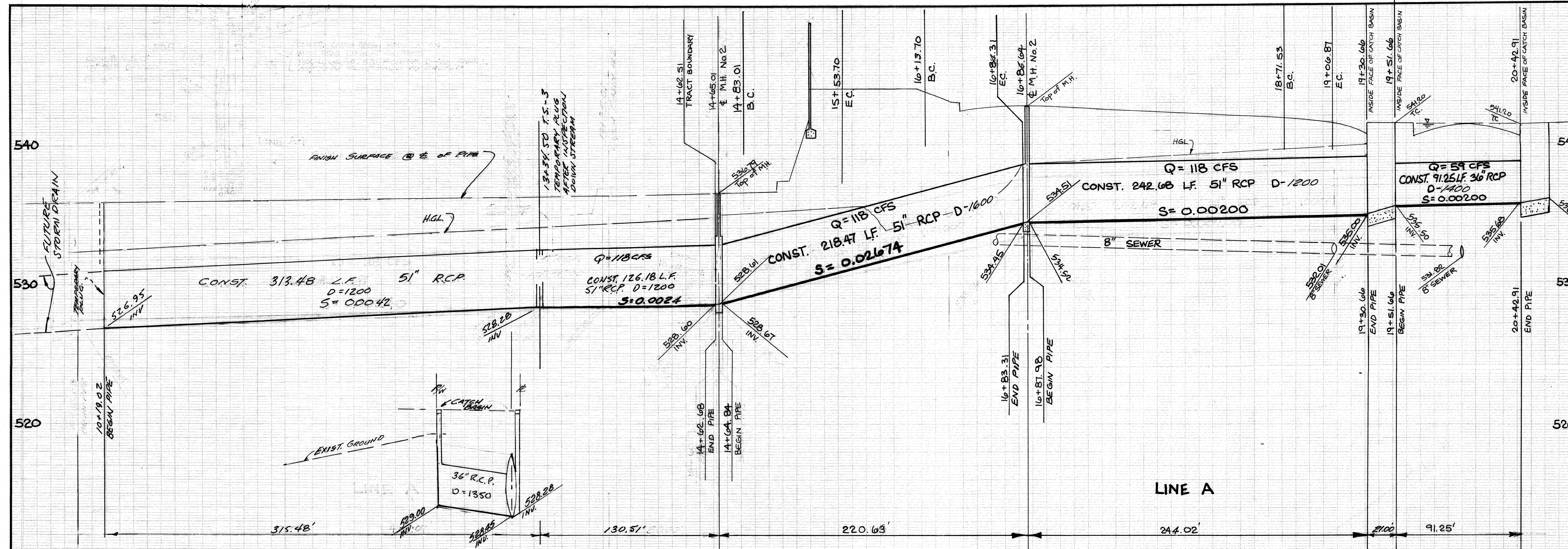
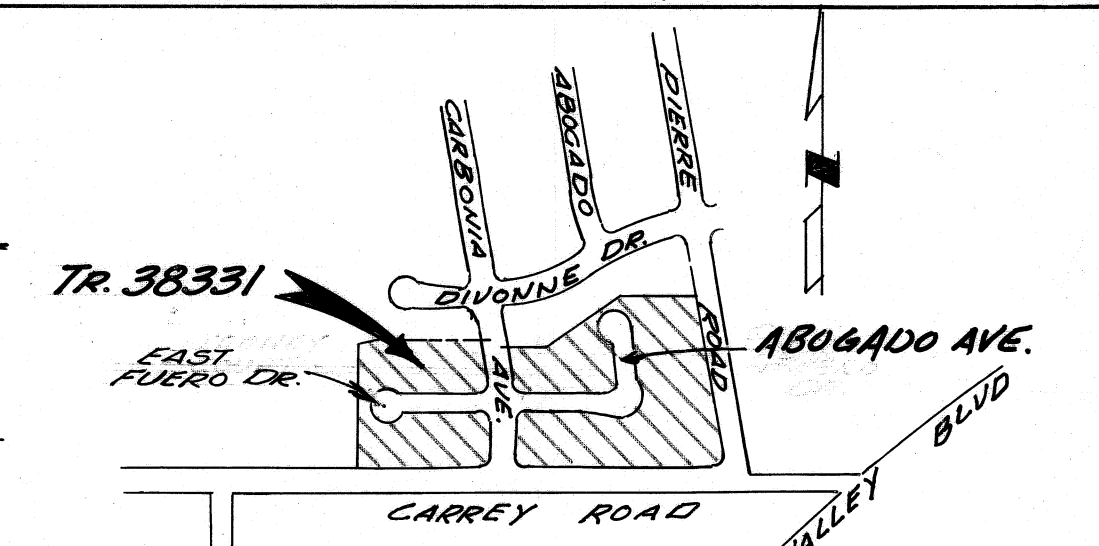
CONCRETE NOTES

1. ALL STEEL SHOWN ADJACENT TO A FACE OF CONCRETE SHALL END OR BE PLACED 2" FROM THE CONCRETE FACE UNLESS OTHERWISE SHOWN.
2. AT THE BEGINNING AND END OF ALL POURS A LAYER OF REINFORCEMENT SHALL BE PLACED WITHIN 3" OF THE TRAVEL CONSTRUCTION JOINTS.
3. UNLESS OTHERWISE SHOWN CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTERLINE OF CONSTRUCTION.
4. ALL CONCRETE WILL BE DESIGNED TO DEVELOP A 28 DAY STRENGTH OF AT LEAST 3000 LBS. PER SQUARE INCH IN COMPRESSION, AND SHALL BE PORTLAND CEMENT CONCRETE.
5. CHAMFER ALL EXPOSED EDGES WITH 3/4" CHAMFER.
6. DIMENSIONS ARE FROM FACE OF CONCRETE TO CENTER OF REINFORCING BARS UNLESS OTHERWISE SPECIFIED.
7. ALL STEEL THAT IS TO BE CONTINUOUS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS.
8. ALL PIPES SHALL BE EMBEDDED A MINIMUM OF 5 INCHES INTO HEADWALLS OR OTHER STRUCTURES.

RIP-RAP NOTES

1. ROCKS FOR GROUTED RIP-RAP SHALL BE OF GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3" AND THE LARGEST DIMENSION SHALL NOT EXCEED 18". THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2" BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2".
3. SURFACE ROCKS SHALL BE IMBEDDED AT LEAST ONE-HALF TO TWO-THIRDS THEIR MAXIMUM DIMENSION.

NOTE:
CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS PROJECT SHALL AFFECT CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

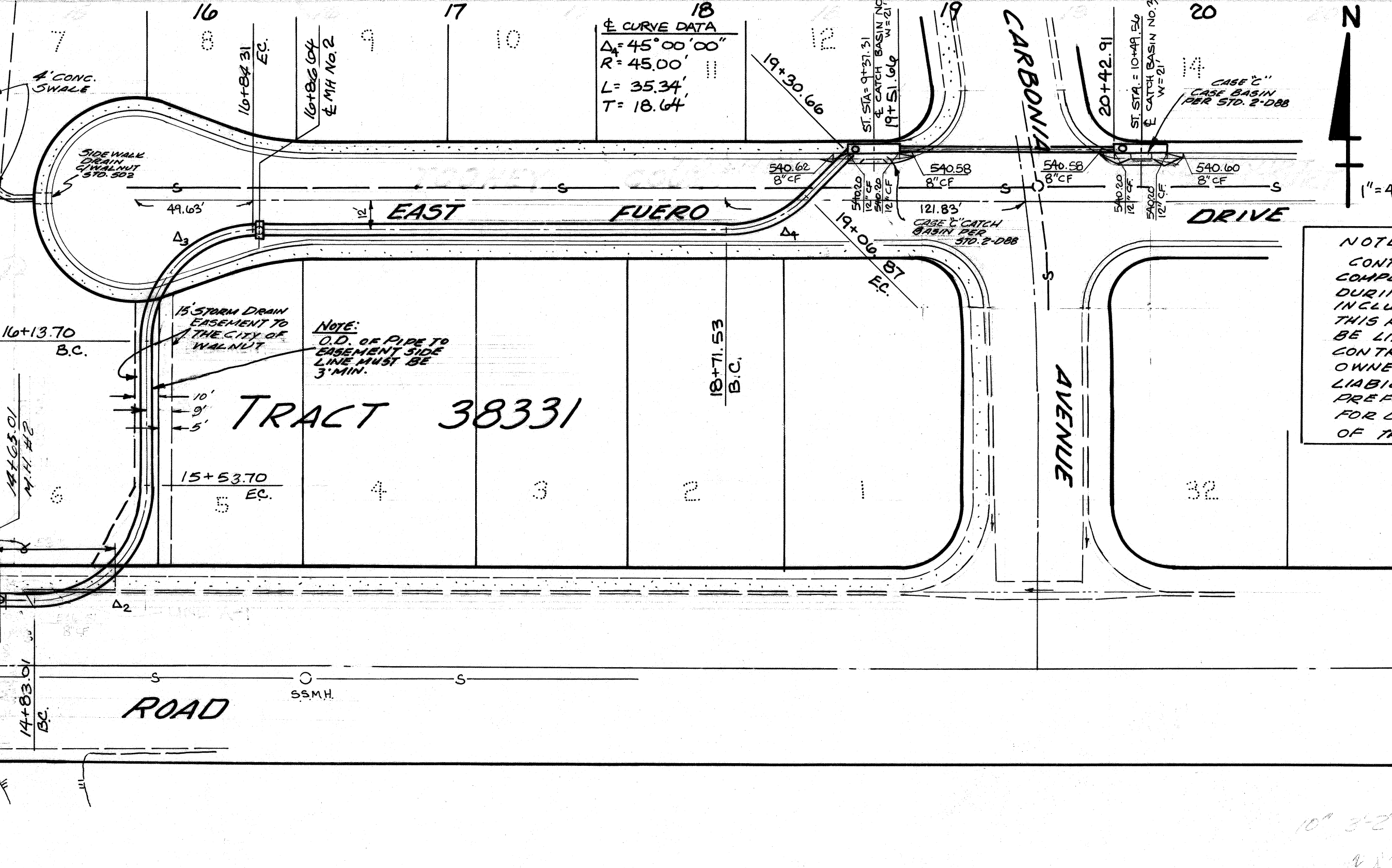


QUANTITY ESTIMATE

51" RCP	379 LF
36" RCP	42 LF
MANHOLE NO. 2	2 EA
CATCH BASIN NO. 2	2 EA
CATCH BASIN NO. 2	2 EA
REMOVE AND REPLACE CURB AND GUTTER	50 LF
REMOVE AND REPLACE SIDEWALK	270 SF
REMOVE AC (CARBONIA AVENUE)	200 SF
REMOVE EXISTING 24" C.S.P. (CARREY ROAD)	

STORM DRAIN CURVE DATA
 $\Delta_1 = 90^\circ 00' 00''$
 $R = 45.00'$
 $L = 70.69'$
 $T = 45.00'$

$\Delta_2 = 90^\circ 00' 00''$
 $R = 45.00'$
 $L = 70.69'$
 $T = 45.00'$



BENCH MARK: CC-2685 ELEV. 548.200
 R.C. BR. NON. FLUSH IN HOWL OF
 SPRR TRACE 81' S. & 220' E/O APPROX
 C/L INT. VALLEY BLVD & CARREY
 RD. MKD (LACO FLD. BM. 102-18 1956)
 BASELINE QUAD. 19 75

NOTICE TO CONTRACTOR
 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 my 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.

PREPARED FOR
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CITY OF WALNUT CALIFORNIA
 JOHN A. LAMBE COUNTY ENGINEER

TRACT 38331

APPROVED BY _____ DATE _____
 DIVISION ENGINEER

CHECKED BY _____ DATE _____
 OFFICE OF THE COUNTY ENGINEER

APPROVED
 CITY OF WALNUT
 OFFICE OF
 CITY ENGINEER
T.W. Salling on 5/28/80

Reviewed By The Los Angeles County Road Department
 By: _____ Date: _____

DRAWN _____ DATE _____
 TRACED _____
 CHECKED _____
 SHEET / OF / SHEETS