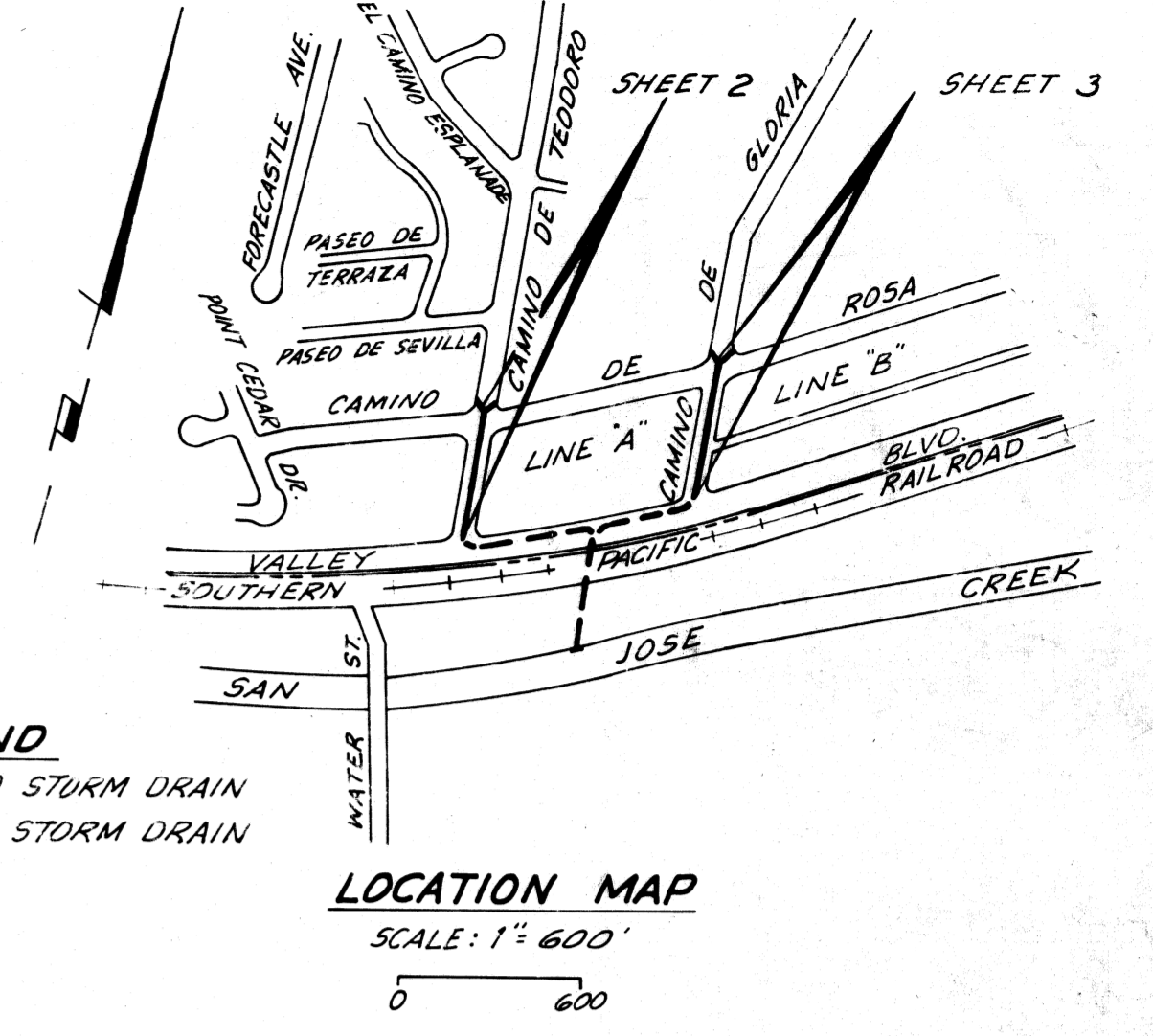


GENERAL NOTES

- NUMBERS IN CIRCLES INDICATE ITEMS UNDER WHICH PAYMENT WILL BE MADE.
- ELEVATIONS SHOWN ARE IN FEET ABOVE THE U. S. G. S. MEAN SEA LEVEL DATUM.
- STATIONS SHOWN ON DRAWINGS ARE ALONG CENTER LINE OF CONDUIT OR ON A LINE NORMAL TO CENTER LINE OF CONDUIT.
- STATIONS AND INVERT ELEVATIONS OF PIPE INLETS SHOWN ON THE PROFILES ARE AT THE INSIDE FACE OF THE CONDUIT, UNLESS OTHERWISE SHOWN.
- ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO STANDARD DRAWING 2-D 177, CASE 11, EXCEPT BELL AND SPIGOT PIPE WHICH SHALL BE CASE 11 BEDDING, UNLESS OTHERWISE SHOWN OR MODIFIED IN THE SPECIFICATIONS.
- PIPE CONNECTIONS TO STORM DRAIN SHALL CONFORM TO STANDARD DRAWINGS 2-D 191 OR 2-D 193, UNLESS OTHERWISE SHOWN.
- CONCRETE BACKFILL SHALL BE PROVIDED AROUND PIPE 21 INCHES IN DIAMETER OR LESS WHERE THE COVER IS EQUAL TO OR LESS THAN 2'-0", AROUND PIPE GREATER THAN 21 INCHES IN DIAMETER BUT LESS THAN 39 INCHES WHERE THE COVER IS LESS THAN 1'-3", AND FOR PIPE 39 INCHES OR GREATER WHERE THE COVER IS LESS THAN 1'-0". THE CONCRETE BACKFILL SHALL BE AS SPECIFIED ON STANDARD DRAWING NO. 2-D 177, NOTE 3.
- ASBESTOS CEMENT PIPE MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE 12 INCHES AND LESS IN DIAMETER. THE REQUIRED D-LOAD FOR THE ASBESTOS CEMENT PIPE SHALL BE 1.5 TIMES THAT SPECIFIED ON THE PLANS FOR THE REINFORCED CONCRETE PIPE.
- DESIGN OF THE PIPE SHOWN HEREON IS BASED ON THE ASSUMPTION THE PIPE WILL BE INSTALLED IN ACCORDANCE WITH CASE 11 BEDDING AS SHOWN ON STANDARD DRAWING 2-D 177 UNLESS OTHERWISE SHOWN. W VALUES SHALL BE AS SPECIFIED ON STANDARD DRAWING 2-D 177 FOR CASE 11 BEDDING, NOTES 3 (a), 3 (b) AND 3 (c). IF THE W VALVE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED, AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE DISTRICT.
- "V" IS THE DEPTH OF INLET OF CATCH BASINS IN SERIES MEASURED FROM TOP OF CURB TO INVERT OF CONNECTOR PIPE.
- EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- UTILITIES DESIGNATED BY THE SYMBOL "*" WILL BE ABANDONED IN PLACE AND THE OWNER WILL INSTALL A NEW SECTION OF THE AFFECTED UTILITY AT A LOCATION IN CLOSE PROXIMITY TO, BUT WHICH DOES NOT PHYSICALLY INTERFERE WITH, THE PROPOSED STORM DRAIN CONDUIT AND APPURTENANT STRUCTURES.
- UTILITIES DESIGNATED BY THE SYMBOL # WILL BE REMOVED BY THE OWNER AND THE OWNER WILL REINSTALL A NEW SECTION OF THE AFFECTED UTILITY AT A LOCATION IN CLOSE PROXIMITY TO, BUT WHICH DOES NOT PHYSICALLY INTERFERE WITH, THE PROPOSED STORM DRAIN CONDUIT AND APPURTENANT STRUCTURES.
- WHERE UTILITIES ARE INDICATED ON THE DRAWINGS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING 2-D 173.1, 2 OR .3, UNLESS OTHERWISE INDICATED.
- LOCATIONS SHOWN ON THE PLANS FOR EXISTING SANITARY SEWER HOUSE CONNECTIONS ARE APPROXIMATE ONLY.
- SANITARY SEWER HOUSE CONNECTION RECONSTRUCTION AND RECONNECTION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING 2-D 250, UNLESS OTHERWISE SHOWN.
- SANITARY SEWERS AND HOUSE CONNECTIONS CROSSING OVER THE STORM DRAIN TRENCH SHALL BE SUPPORTED IN ACCORDANCE WITH STANDARD DRAWING 2-D 173.1 TO .3 AND ENCASED PER GENERAL NOTE 1 ON STANDARD DRAWING 2-D 173.1.
- WHEN INDICATED ON THE DRAWINGS, SANITARY SEWERS AND HOUSE CONNECTIONS SHALL BE ENCASED OR BLANKETED IN ACCORDANCE WITH STANDARD DRAWING 2-D 251.
- ALL OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK AND MORTAR OR 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
- ALL RESURFACING CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- STREET RESURFACING SCHEDULE IS SHOWN ON SHEET 4.
- SOIL TEST BORINGS FOR THIS PROJECT WERE MADE MAY 20, 1971.
- REFER TO SHEET 4 FOR TYPICAL CATCH BASIN CONNECTOR PIPE PROFILE.
- ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE THE PROPERTY OF UTILITY CO'S. AS SHOWN ON PLANS.

LEGEND

- FIRE HYDRANT
- POWER POLE
- TELEPHONE POLE
- ANCHOR GUY
- WATER VALVE
- GAS VALVE
- SANITARY SEWER MANHOLE
- WATER METER
- SIDE INLET CATCH BASIN W/L.D.
- BENCH MARK
- TELEPHONE MANHOLE
- DRIVEWAY
- GUTTER
- TREE
- PALM TREE
- TEST BORING
- CURB
- SIDEWALK
- PROPERTY
- SIGN
- WATER LINE
- GAS LINE
- SANITARY SEWER
- TELEPHONE LINE



INDEX TO DRAWINGS

- SHEET NO. 1 OF 4 LINES A, B, LOCATION MAP, INDEX TO DRAWINGS, GENERAL NOTES, STANDARD DRAWINGS, LEGEND, ABBREVIATIONS.
- SHEET 2 OF 4 LINE A CAMINO DE TEODORO STA. 0+96.76 TO STA. 5+60.00 PLAN & PROFILE
- SHEET 3 OF 4 LINE B CAMINO DE GLORIA STA. 1+00.00 TO STA. 5+80.00 PLAN & PROFILE
- SHEET 4 OF 4 RESURFACING SCHEDULE, LOG OF BORINGS, LINES A & B, MISCELLANEOUS DETAILS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT STANDARD DRAWINGS

NO.	TITLE
2-D 96	STANDARD DROP STEP MANHOLE NO. 1, PLAN, SECTION & DETAIL
2-D 102	CONCRETE RINGS, REDUCER AND PIPE FOR MANHOLE SHAFT
2-D 112	JUNCTION STRUCTURE NO. 2
2-D 156	MANHOLE FRAME & COVER FOR CATCH BASINS
2-D 157	CATCH BASIN REINFORCEMENT FOR ROUND MANHOLES
2-D 163	CATCH BASIN NO. 3, PLAN, SECTION & DETAILS
2-D 171	STANDARD A-305 REINFORCING BARS
2-D 172	CATCH BASIN REINFORCEMENT
2-D 173.1	PIPE SUPPORTS ACROSS TRENCHES
2-D 175	REMOVABLE PROTECTION BAR FOR CATCH BASINS
2-D 177	PIPE BEDDING IN TRENCHES
2-D 181	STANDARD NON-ROCKING MANHOLE FRAME AND COVER
2-D 184	MANHOLE NO. 2, PLAN, SECTION AND DETAIL
2-D 193	JUNCTION STRUCTURE NO. 4
2-D 224	CONNECTION TO CATCH BASIN FOR PIPES 12 INCHES THROUGH 72 INCHES
2-D 232	DETAIL OF CATCH BASIN OPENING
2-D 251	PROTECTION FOR MAIN LINE AND HOUSE CONNECTION SEWERS
2-D 264	ADJUSTABLE PROTECTION BAR STIRRUP
2-D 333	CONCRETE COLLAR FOR PIPES 12 INCHES THROUGH 66 INCHES
2-D 339	CRITERIA FOR THE DESIGN OF SHORING FOR EXCAVATIONS
2-C 400	SAMPLE SHEET FOR USE AS A GUIDE IN PREPARING CALCULATIONS FOR SHORING EXCAVATIONS
2-D 265	INLET NO. 1, PLAN & SECTION
2-D 213	UNIFIED SOIL CLASSIFICATION SYSTEM
2-D 113	MANHOLE NO. 4

ABBREVIATION	TERM	ABBREVIATION	TERM
A.C.	ASPHALT CONCRETE	STA.	STATION
ABAND.	ABANDONED	ST'D. DWG.	STANDARD DRAWING
B.C.R.	BEGINNING OF CURB RETURN	SHT.	SHEET
CALIF.	CALIFORNIA	V.C.P.	VITRIFIED CLAY PIPE
C.B.	CATCH BASIN	TEL.	TELEPHONE
COND.	CONDUIT	RECONST.	RECONSTRUCT
EXIST.	EXISTING	T.B.	TEST BORING
EXT'D.	EXTENDED	P.R.C.	POINT REVERSE CURVE
G.C.	GRADE CHANGE	B.C.	BEGIN CURVE
H.C.	HOUSE CONNECTION	S.D.	STORM DRAIN
J.S.	JUNCTION STRUCTURE	T.B.M.	TEMPORARY BENCH MARK
L.D.	LOCAL DEPRESSION	W.P.C.	WALNUT PRIVATE CONTRACT
M.H.	MANHOLE	T.S.	TRANSITION STRUCTURE
N/O	NORTH OF	C.M.P.	CORRUGATED METAL PIPE
N/E	NORTH EAST	E.C.	END CURVE
P.C.C.	PORTLAND CEMENT CONCRETE	F.A.S.	FEDERAL AND SECONDARY HIGHWAY
P.V.M.T.	PAVEMENT	H.L.	HOUSE LATERAL
P.O.R.	PORTION		
PROJ.	PROJECT		
R.C.P.	REINFORCED CONCRETE PIPE		
REM.	REMOVE		
S.S.	SANITARY SEWER		
SD.	SOUTH OR SOUTHERN		

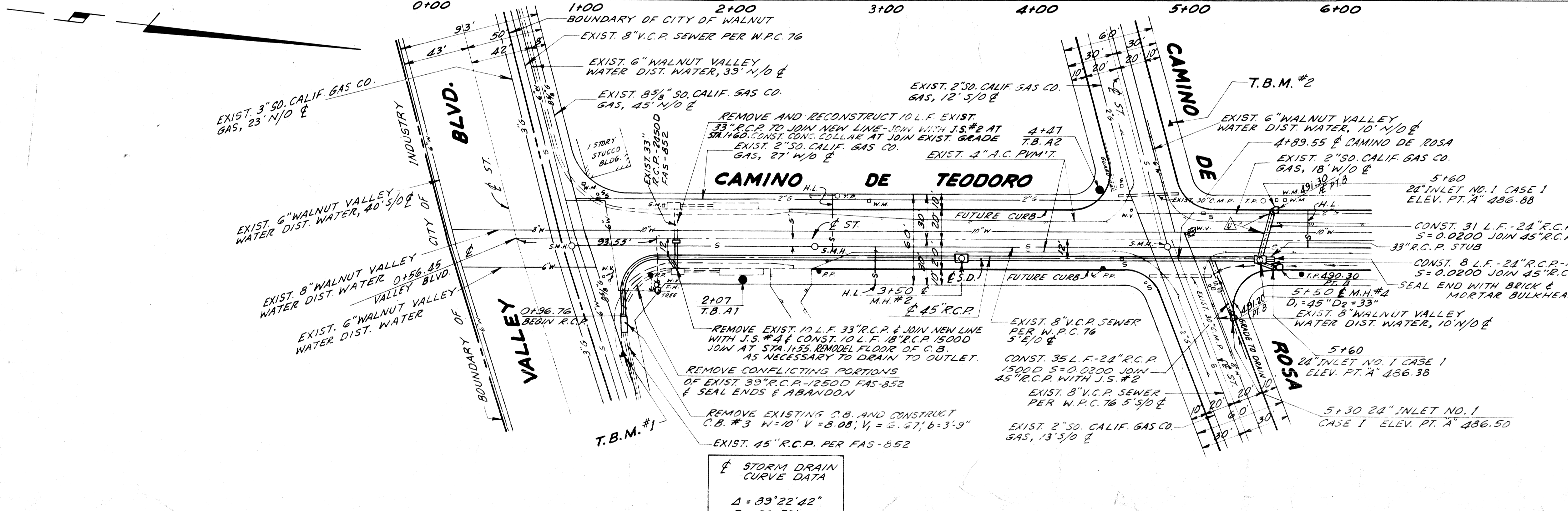
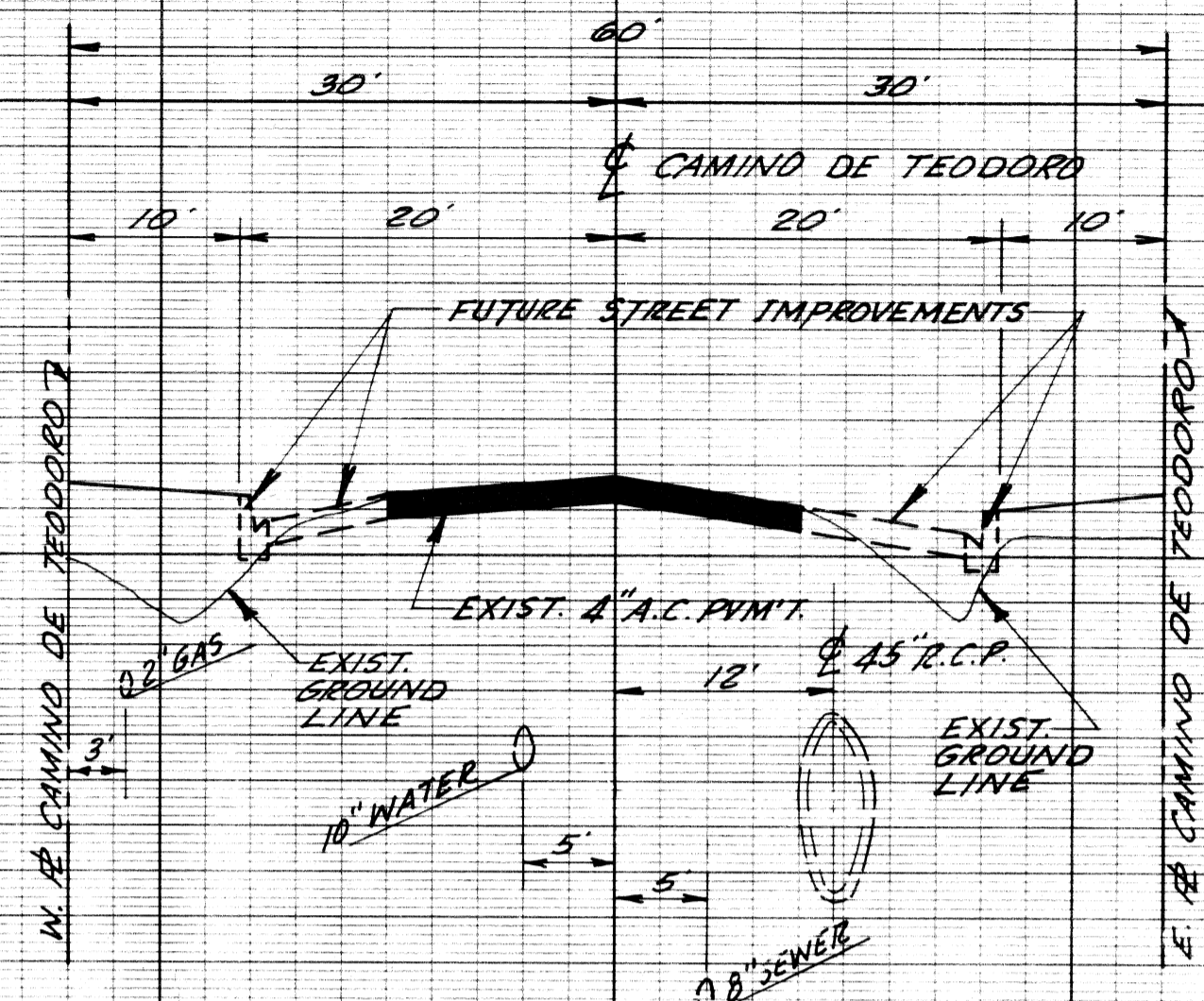
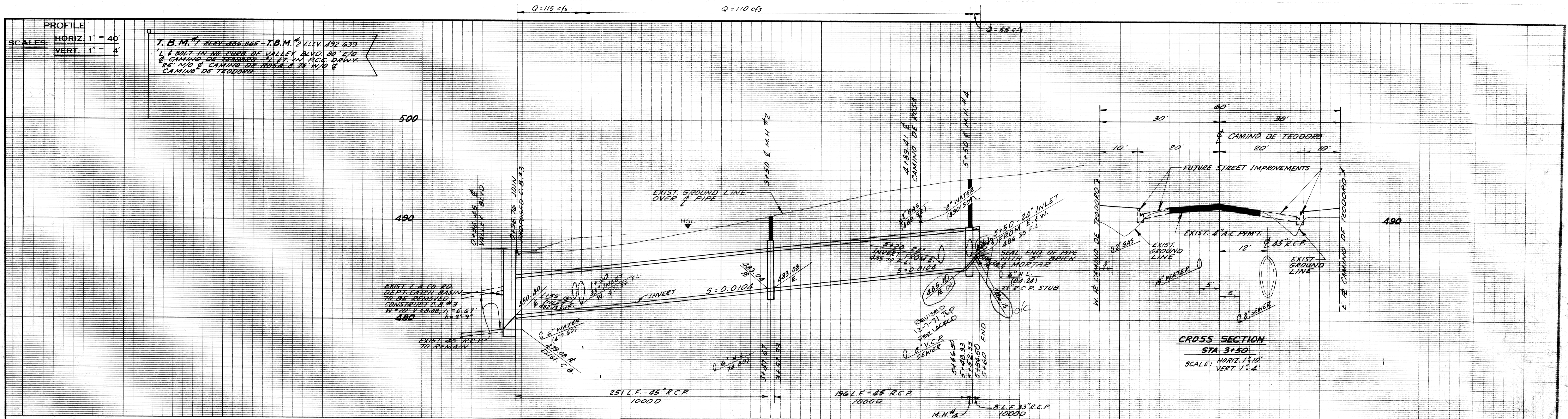
NOTE: CONTRACTOR SHALL NOTIFY WALNUT VALLEY WATER DISTRICT FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION IN AREA OF WATER LINES. PH: (213) 964-6551

DESIGNED BY	Ysp
DRAWN BY	JMG
CHECKED BY	JJK
SUPERVISED BY	
PROJECT ENGINEER	

REVISIONS
MK DATE DESCRIPTION

1970 STORM DRAIN BOND ISSUE

CITY OF WALNUT PREPARED IN THE OFFICE OF NATIONAL ENGINEERING CO. Aug. 30, 1971 George O. Asch George O. Asch R.C.E. 19580	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROJECT NO. 8350 CITY OF WALNUT LINES A & B LOCATION MAP, INDEX TO DRAWINGS, GENERAL NOTES, STANDARD DRAWINGS, LEGEND, ABBREVIATIONS
APPROVED AUG 31 1971	RECOMMENDED BY: [Signature] DATE: SEPT. 1971 SCALE AS SHOWN
BY: [Signature] CITY ENGINEER	DWGS. APPROVED BY: [Signature] DIVISION ENGINEER (DESIGN) NO. 470-8350-D-1
	CHEF ENGINEER SHEET 1 OF 4



STORM DRAIN CURVE DATA
 $\Delta = 89^\circ 22' 42''$
 $R = 22.50'$
 $L = 35.10'$
 $T = 22.86'$
 $B.C. = 1141.50$
 $E.C. = 1150.00$

M.H. NO. 4		JUNCTION STRUCTURE NO. 2	
STATION	D ₁ D ₂ B C	STATION	A B C
5+50 E	45" 33" 24" 3.60	1+60	30" 33" 2.00
5+50 W	45" 33" 24" 2.80	5+20	60" 24" 3.20

PROFILE
 SCALES: HORIZ. 1" = 40'
 VERT. 1" = 4'

T.B.M. #1 ELEV. 486.865 - T.B.M. #2 ELEV. 492.639
 L.F. BUILT IN NO. CURB OF VALLEY BLVD. 80' E/D
 & CAMINO DE TEODORO 41' E/D. M. RICH DELVY
 24' N/D. & CAMINO DE ROSA 28' N/D &
 CAMINO DE TEODORO

1970 STORM DRAIN BOND ISSUE
 LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

CITY OF WALNUT
 PREPARED IN THE OFFICE OF NATIONAL ENGINEERING CO.
 Aug. 30, 1971
 George O. Asch
 GEORGE O. ASCH R.C.E. 19580
 APPROVED Aug. 31, 1971
 BY: [Signature] CITY ENGINEER

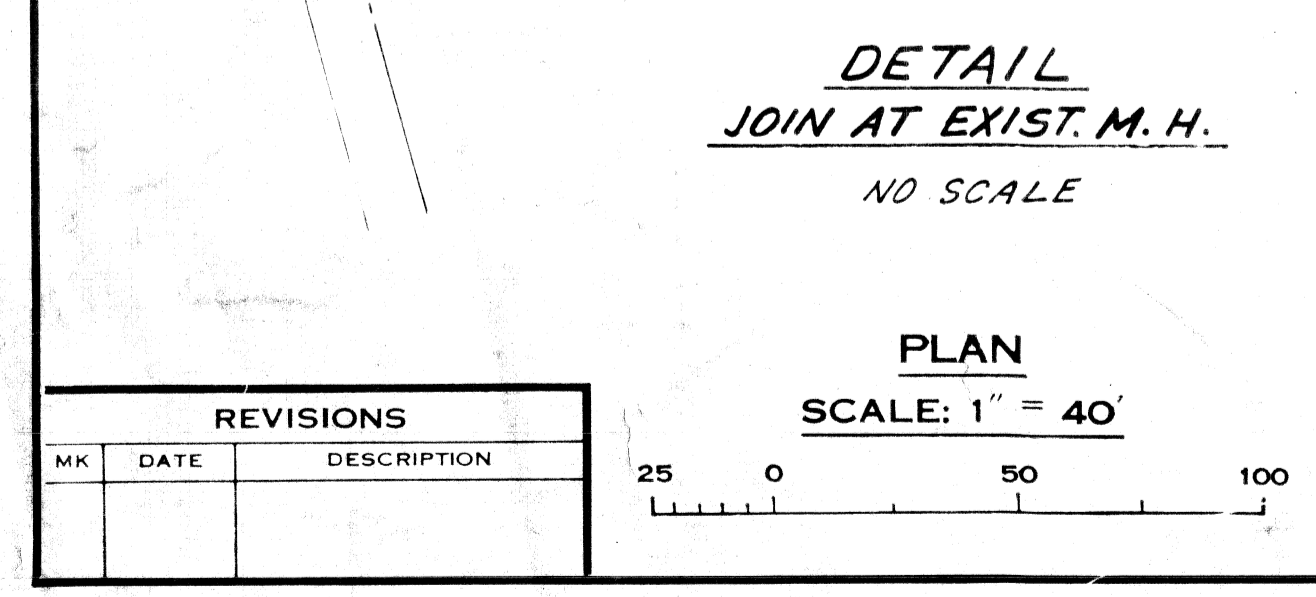
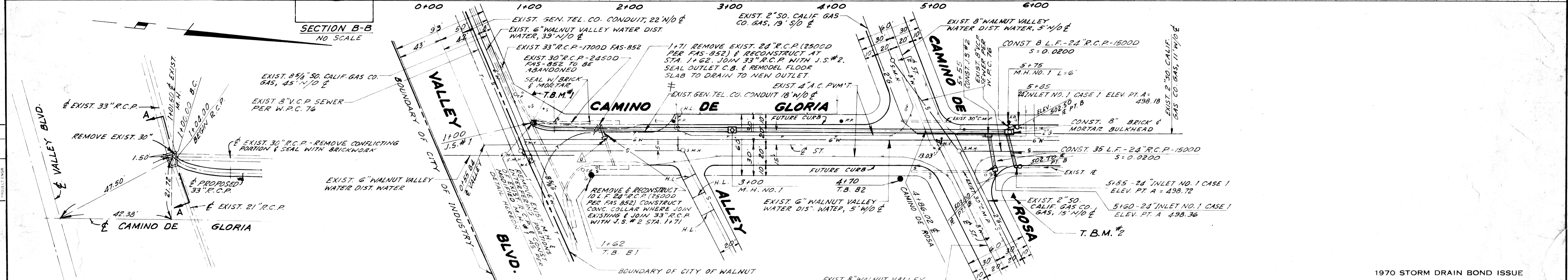
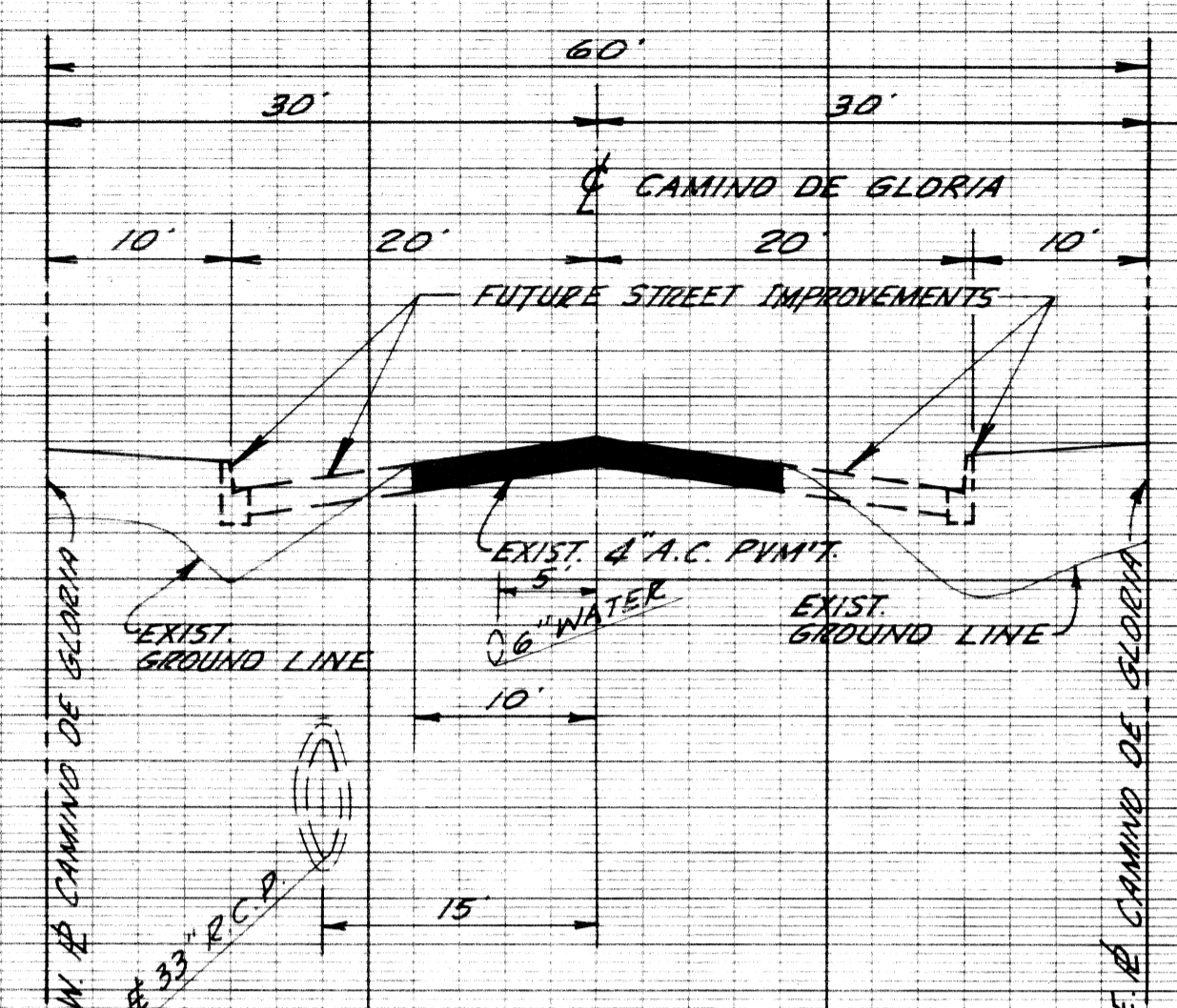
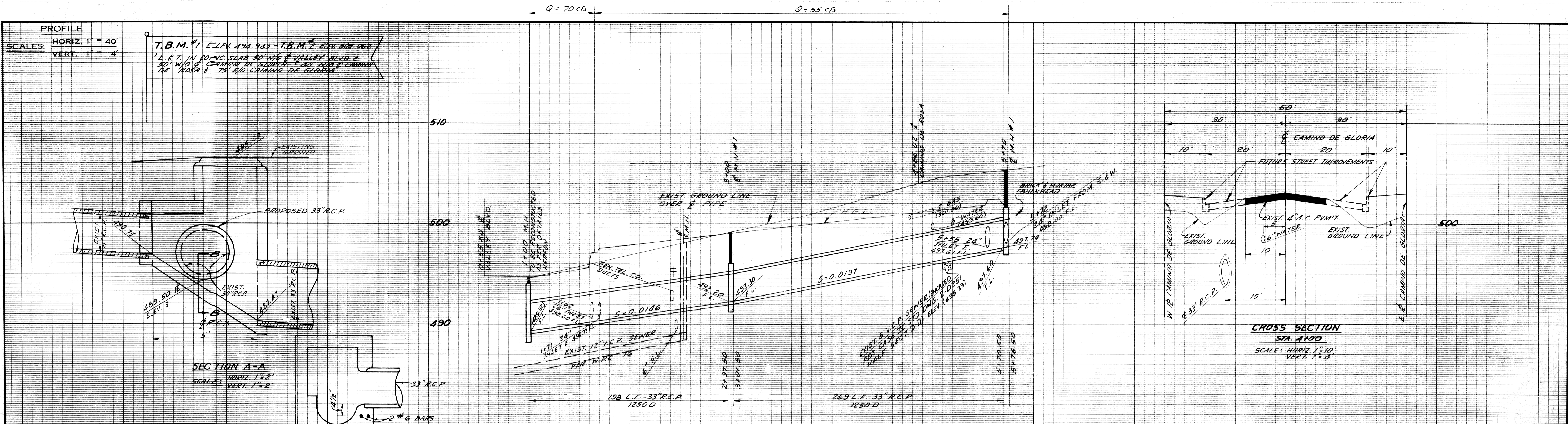
PROJECT NO. 8350
 CITY OF WALNUT
LINE A
 CAMINO DE TEODORO
 PLAN AND PROFILE
 STA. 0+96.76 TO STA. 5+60.00

RECOMMENDED BY: [Signature]
 DIVISION ENGINEER (DESIGN)

DATE: SEPT. 1971
 NO. 470-8350-D. 2
 SHEET 2 OF 4

REVISIONS
 SCALE: 1" = 40'

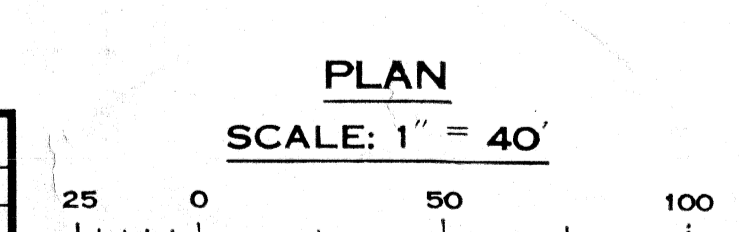
MK	DATE	DESCRIPTION



STORM DRAIN CURVE DATA
 $\Delta = 31^{\circ} 52' 21''$
 $R = 45'$
 $L = 25.03'$
 $T = 12.85'$
 $BC = 1+00.00$
 $EC = 1+25.03$

JUNCTION STRUCTURE NO. 2				
STATION	A	B	C	D
5+55	60"	24"	3.40'	33"
1+62	60"	24"	3.40'	33"
1+71	70"	24"	3.60'	33"

REVISIONS		
MK	DATE	DESCRIPTION



CITY OF WALNUT PREPARED IN THE OFFICE OF NATIONAL ENGINEERING CO. AUG. 30, 1971 <i>George O. Rank</i> GEORGE O. RANK R.C.E. 13580 APPROVED AUG 31 1971 BY: <i>Stephan</i> CITY ENGINEER		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROJECT NO. 8350 CITY OF WALNUT LINE B CAMINO DE GLORIA PLAN AND PROFILE STA. 1+00.00 TO STA 5+76.50 RECOMMENDED BY DATE: SEPT, 1971 NO. 470-8350-D1.3 SHEET 3 OF 4	
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RESURFACING SCHEDULE

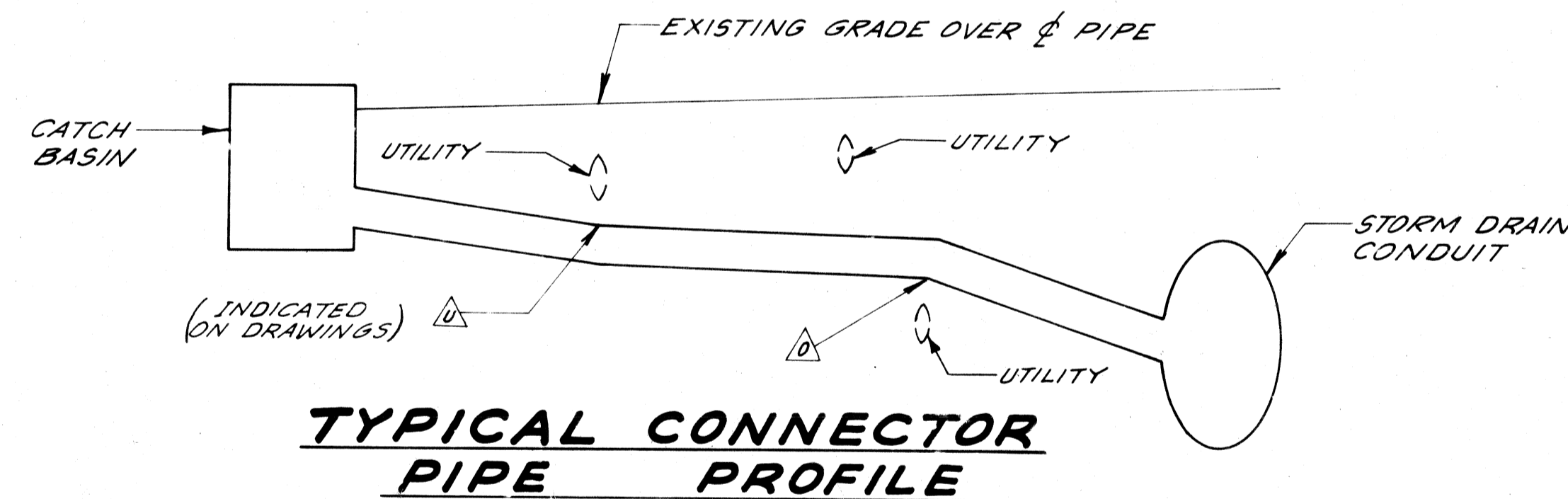
LINE	STREET	FROM	TO	EXISTING IMPROVEMENT			PROPOSED IMPROVEMENT			REMARKS		
				BASE		PAVEMENT	BASE		PAVEMENT			
				THICKNESS	MATERIAL	THICKNESS	MATERIAL	THICKNESS	MATERIAL			
A	CAMINO DE TEDDORO	STA. 0+96	STA. 2+60	10"	CRUSHED AGG.	6"	A.C.	10"	CRUSHED AGG.	6"	A.C.	
		STA. 2+60	STA. 5+63	NONE		4"	A.C.	NONE		5"	A.C.	
B	CAMINO DE GLORIA	STA. 1+00	STA. 2+55	10"	CRUSHED AGG.	6"	A.C.	10"	CRUSHED AGG.	6"	A.C.	
		STA. 2+55	STA. 5+82	NONE		4"	A.C.	NONE		5"	A.C.	

LOG OF BORING NO. <u>A-1</u>	
LINE <u>A</u> STATION	
DATE DRILLED <u>5-20-71</u>	
SURFACE ELEVATION <u>488.0</u>	
Depth-Feet Samples	DESCRIPTION
5	DARK BROWN TO BLACK SANDY SILTY CLAY (CH)
5	DARK BROWN TO BLACK SILTY CLAY W/TRACE OF CALICHE (CH)
5	MEDIUM BROWN & GRAY SILTY SANDY CLAY (CH)
5	INVERT (6.00) TAN & BROWN SILTY SANDY CLAY (CL)
10	MEDIUM BROWN SILTY SANDY CLAY W/ REDDISH BROWN SANDY CLAY (CL)
10	END OF BORING @ 9.0'
20	LOCATION 74' N. OF N. CURB FACE VALLEY BLVD. 6' E. OF E. C.L. CAMINO DE TEDDORO
WALNUT STORM DRAIN	
FILE	PLATE NO.

LOG OF BORING NO. <u>A-2</u>	
LINE <u>A</u> STATION	
DATE DRILLED <u>5-20-71</u>	
SURFACE ELEVATION <u>492.0</u>	
Depth-Feet Samples	DESCRIPTION
5	DARK BROWN TO BLACK SANDY SILTY CLAY W/TRACE OF CALICHE (MH)
5	MEDIUM BROWN SANDY SILTY CLAY W/ CALICHE (CH)
10	INVERT (6.00) MEDIUM BROWN SANDY SILTY CLAY (CL)
10	END OF BORING @ 9.0'
20	LOCATION 30' S. OF C.L. CAMINO DE ROSA 33' N. OF C.L. CAMINO DE TEDDORO
WALNUT STORM DRAIN	
FILE	PLATE NO.

LOG OF BORING NO. <u>B-1</u>	
LINE <u>B</u> STATION	
DATE DRILLED <u>5-20-71</u>	
SURFACE ELEVATION <u>495.0</u>	
Depth-Feet Samples	DESCRIPTION
5	DARK BROWN TO BLACK SANDY SILTY CLAY W/ CALICHE (CL)
5	INVERT (4.8)
5	MEDIUM BROWN & GRAY SILTY SANDY CLAY (CL)
10	MEDIUM BROWN SANDY SILTY CLAY W/ SILTSTONE (CH)
20	LOCATION 37' E. OF C.L. CAMINO DE GLORIA 37' N. OF N. CURB FACE VALLEY BLVD.
WALNUT STORM DRAIN	
FILE	PLATE NO.

LOG OF BORING NO. <u>B-2</u>	
LINE <u>B</u> STATION	
DATE DRILLED <u>5-20-71</u>	
SURFACE ELEVATION <u>502.0</u>	
Depth-Feet Samples	DESCRIPTION
5	MEDIUM BROWN SILTY CLAY (CH)
5	INVERT (7.50) MEDIUM BROWN SILTY SANDY CLAY W/TRACE OF CALICHE (CL)
5	REDDISH BROWN SANDY SILTY CLAY (CL)
20	LOCATION 30' S. OF C.L. CAMINO DE ROSA 33' E. OF C.L. CAMINO DE GLORIA
WALNUT STORM DRAIN	
FILE	PLATE NO.



TYPICAL CONNECTOR PIPE PROFILE
NO SCALE

NOTES:

1. THE CHANGE IN GRADE OF THE CONNECTOR PIPE MAY OCCUR EITHER OVER OR UNDER AN EXISTING UTILITY THE PARTICULAR UTILITY AT WHICH THE CHANGE IN GRADE OCCURS IS NOTED ON THE PROJECT DRAWINGS AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED Δ , THE CONNECTOR PIPE GRADE WILL BREAK OVER THE UTILITY. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED ∇ , THE CONNECTOR PIPE GRADE WILL BREAK UNDER THE UTILITY.
2. ON THOSE CONNECTOR PIPES WHERE CHANGE IN GRADE IS NOT INDICATED, IT IS ASSUMED THAT THE CONNECTOR PIPE CAN BE LAID ON A STRAIGHT GRADE FROM THE CATCH BASIN TO THE STORM DRAIN WITHOUT INTERFERENCE WITH UTILITIES.
3. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES, WHICH ARE MARKED Δ OR ∇ . AFTER THE EXACT LOCATION AND DEPTH OF A UTILITY HAS BEEN DETERMINED, THE GRADE AND ALIGNMENT OF THE CONNECTOR PIPE WILL BE STAKED SO AS TO CLEAR THE UTILITY. EXPLORATORY EXCAVATIONS ARE NOT REQUIRED FOR SANITARY SEWERS.
4. WHERE CONNECTOR PIPE HAS A CHANGE IN GRADE OR ALIGNMENT EXCEEDING 0.1 FT./FT. OR DIFFERS IN DIAMETER FROM THAT OF EXISTING PIPE, USE CONCRETE COLLAR AS PER STANDARD DRAWING 2-D393.

- NOTES:**
1. ALL BORINGS ON THIS PAGE WERE CLASSIFIED ACCORDING TO THE UNIFIED SOIL CLASSIFICATION AS SHOWN ON STANDARD DRAWING NO. 2-0.413
 2. EQUIPMENT: TRUCK MOUNTED, ROTARY BUCKET AUGER, USING A 20" BUCKET.
 3. GROUND WATER WAS NOT ENCOUNTERED IN ANY OF THE BORINGS.
 4. BORINGS WERE DRILLED ON MAY 20, 1971.

REVISIONS		
NO.	DATE	DESCRIPTION

1970 STORM DRAIN BOND ISSUE

<p style="text-align: center;">CITY OF WALNUT PREPARED IN THE OFFICE OF NATIONAL ENGINEERING CO. Aug. 30, 1971 <i>George O. Asch</i> GEORGE O. ASCH R.C.E. 19580 APPROVED <u>4.09.31</u> 1971</p>	<p style="text-align: center;">LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROJECT NO. 8350 CITY OF WALNUT RESURFACING SCHEDULE, LOG OF BORINGS - LINES A & B, & MISCELLANEOUS DETAILS</p>
<p>BY: <i>St. E. Peterson</i> CITY ENGINEER</p>	<p>RECOMMENDED BY: _____ DIVISION ENGINEER (DESIGN)</p> <p>DATE: <u>SEPT. 1971</u> SCALE AS SHOWN NO. 470-8350-D.4 SHEET 4 OF 4</p>