GENERAL NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT–OF–WAY IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, CONSTRUCTION, CURRENT EDITION AND THE SPECIAL PROVISIONS FOR SYCAMORE CANYON COMMUNITY FACILITIES DISTRICT NO. 92–1.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE–ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
5. ALL FLANGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
6. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1–800–227–2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
8. CONTRACTOR IS TO VERIFY EXISTING GAS, SEWER AND WATER ELEVATIONS IN SYCAMORE CANYON BLVD. PRIOR TO CONSTRUCTION.
9. BEFORE THE RIP RAP AT THE OUTLET OF ANY DRAINAGE STRUCTURE IS ACCEPTED, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
10. PIPE BEDDING TO BE CASE I PER CITY OF RIVERSIDE STD. NO. 452.
11. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHT–OF–WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.

STORM DRAIN CONSTRUCTION NOTES

(1) INSTALL 18" R.C.P. (2000–D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.

(2) INSTALL 42" R.C.P. (1600–D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.

(3) INSTALL 48" R.C.P. (1500–D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.

(4) INSTALL 54" R.C.P. (1500–D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.

(5) CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. 432. SEE MANHOLE JM TABLE FOR DATA.

(6) CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422.

(7) CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405., "W" & "V " AS NOTED ON PLAN. SEE STENCILING ON CATCH BASIN DETAIL "A" ON SHEET 1.

(8) CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. 456.

(9) CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. 430.

(10) CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. 431.

(11) CONSTRUCT TRANSITION STRUCTURE NO. 1 PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. TS301.

(12) CONSTRUCT 5'–6"W X 3'–0" H CAST–IN–PLACE REINFORCED CONCRETE SINGLE BOX CULVERT PER DETAIL "B" ON SHEET 1 (CALTRANS STD. DWG. D80).

(13) CONSTRUCT MANHOLE NO. 3 PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. MH253.

(14) CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. 424.

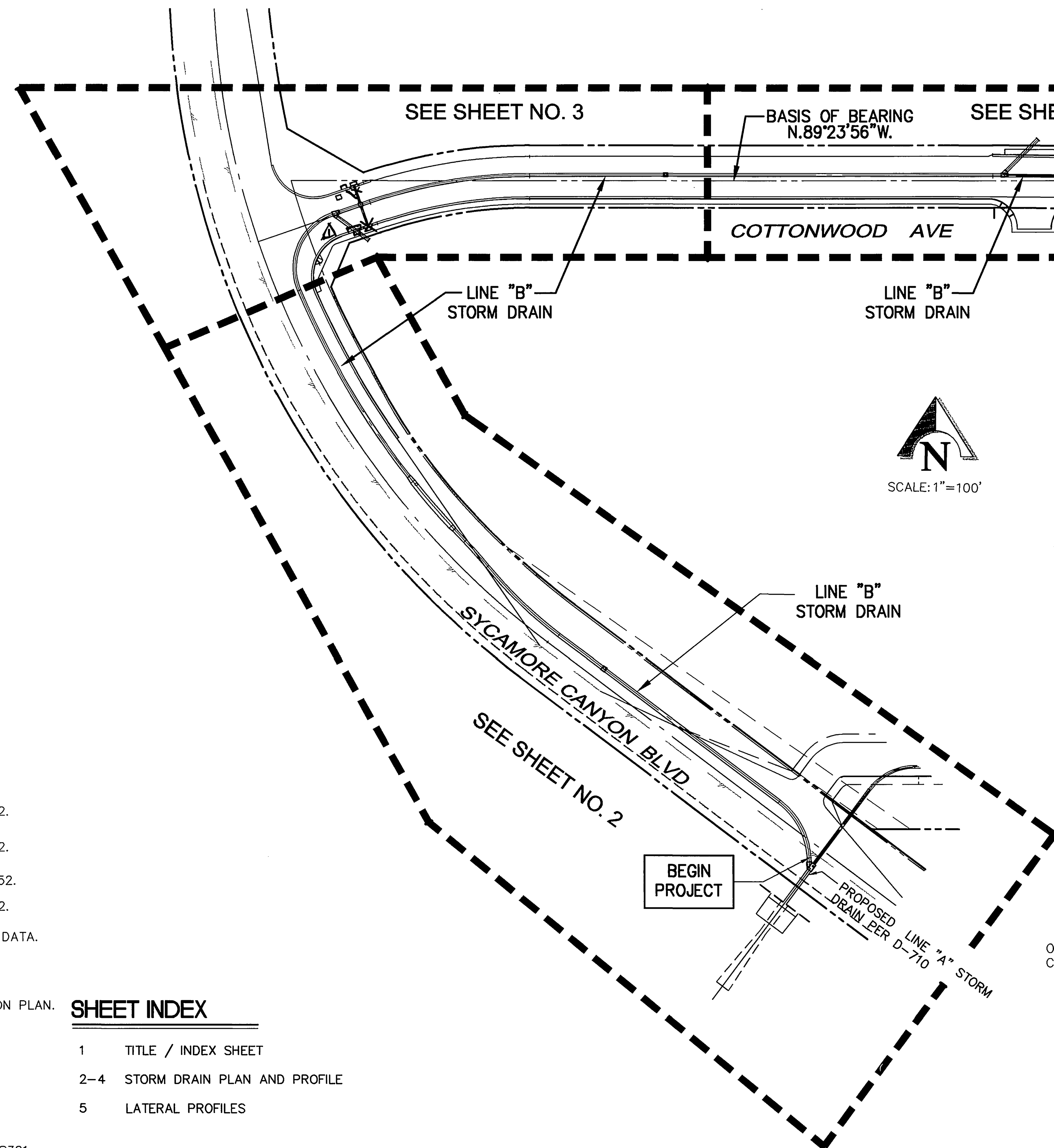
NOTICE TO CONTRACTOR

THE FOLLOWING ORGANIZATIONS ARE WITHIN THE PROJECT AREA:

CITY OF RIVERSIDE, PUBLIC WORKS
CITY OF RIVERSIDE, ELEC. DEPT.
WESTERN MUNICIPAL WATER DIST.
SOUTHERN CALIFORNIA GAS CO.
VERIZON

THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC, SHOWN ON THESE) PLANS (MAIN LINES ONLY–NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS AND ARE APPROXIMATE. NEITHER THE CITY NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.



INDEX MAP

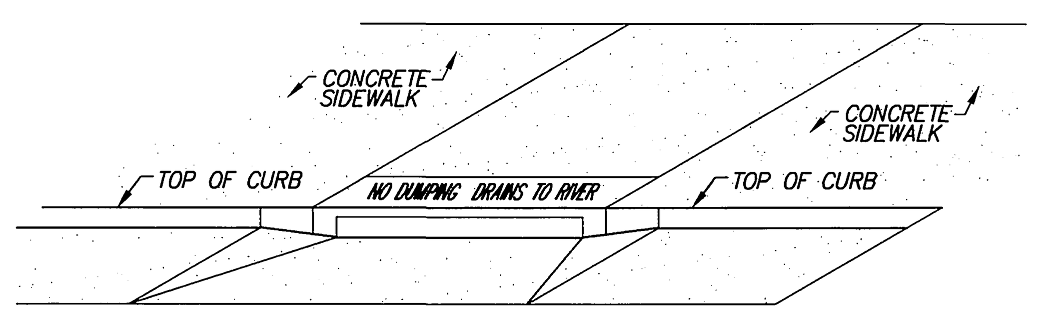
SCALE: 1"=100'

SHEET INDEX

1 TITLE / INDEX SHEET
2–4 STORM DRAIN PLAN AND PROFILE
5 LATERAL PROFILES

BASIS OF BEARING:

BASIS OF BEARING IS THE NORTH LINE OF THE PARCEL MAP NO. 24536, ON FILE IN BOOK 162, PAGES 91–93, OF PARCEL MAPS, RECORDS OF RIVERSIDE CO., CALIFORNIA BEING N.89° 23' 56" W.



DETAIL "A" - CATCH BASIN STENCILING

N.T.S.

CATCH BASIN STENCILING NOTES:

1. STENCILS TO HAVE 2" LETTERS AS FOLLOWS:
   NO DUMPING
   DRAINS TO RIVER
2. PLACE STENCILS CENTERED WITHIN CATCH BASIN OPENING AND WITHIN TOP OF CURB.
3. SPRAY BOTH STENCILS WITH WHITE PAINT.
4. REMOVE STENCILS WHEN PAINT IS DRY.

STANDARD DRAWINGS

CALTRANS

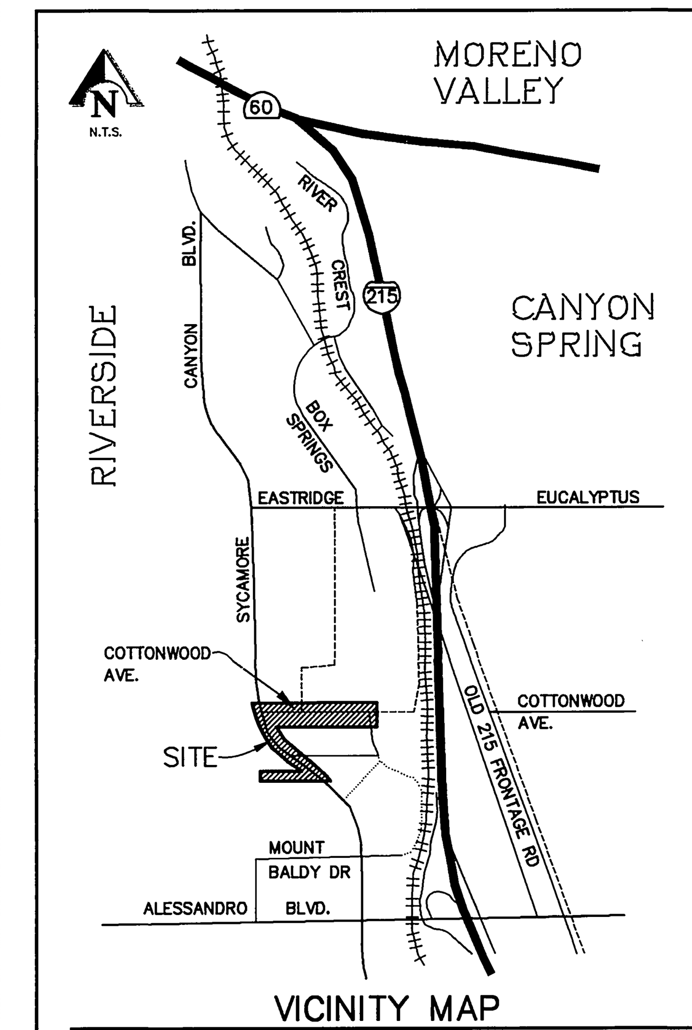
D80 CAST–IN–PLACE REINFORCED CONCRETE SINGLE BOX CULVERT.

RIVERSIDE COUNTY FLOOD CONTROL

MH253 MANHOLE NO. 3.
TS301 TRANSITION STRUCTURE NO. 1.

DEPARTMENT OF PUBLIC WORKS - CITY OF RIVERSIDE

405 CATCH BASIN
422 JUNCTION STRUCTURE C
424 CONCRETE COLLAR
430 MANHOLE AX
431 MANHOLE EZ
432 MANHOLE JM
452 PIPE BEDDING
456 TIMBER BULKHEAD



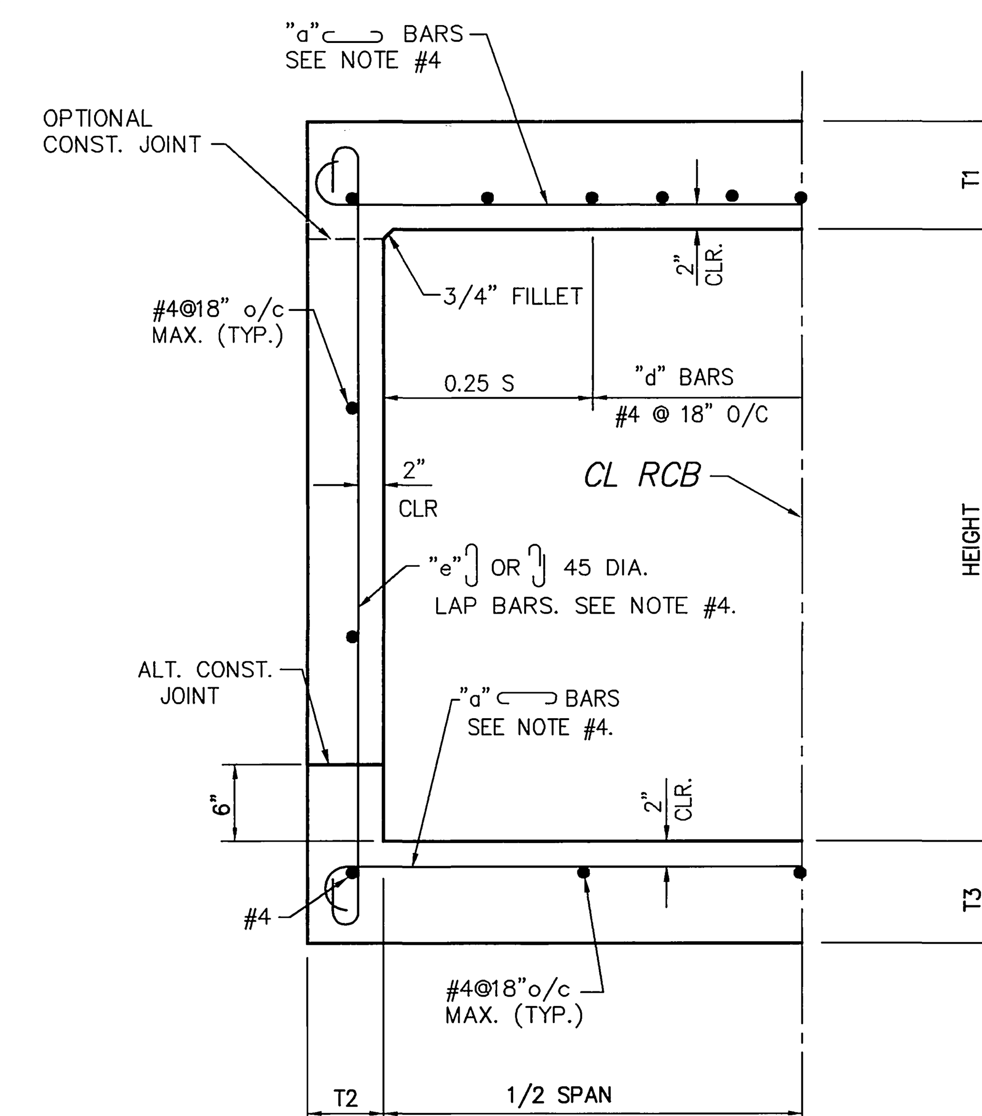
VICINITY MAP

THE THOMAS GUIDE 2000 RIVERSIDE COUNTY
PAGE 716 SECTION H–5
SECTION 10 T3S R4W

NOTE:

THE FOLLOWING STORM DRAIN FOR LINE "B" AND ITS APURTENANCES ARE TO BE CONSTRUCTED BY THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT:

– STATION 4+04.75 TO STATION 14+46.36



CONCRETE	SPAN (FT)		5.5(MAX)
	HEIGHT (FT)		3(MAX)
	MAXIMUM EARTH COVER (FT)		15
	ROOF	T1 (INCH)	8
	WALLS	T2 (INCH)	7
	INVERT	T3 (INCH)	8
REINFOR–CEMENT	SPACING	(INCH)	5
	"a"	SIZE BAR #	6
	"e"	SIZE BAR #	5

DETAIL "B": CAST–IN–PLACE REINFORCED CONCRETE SINGLE BOX (CALTRANS STANDARD DRAWING NO. D80).

SCALE 1"=1'

NOTES FOR DETAIL "B": CAST–IN–PLACE REINFORCED CONCRETE BOX

1. FOR BOXES WITH SPAN OR HEIGH LESS THAN ANY OF THOSE SHOWN IN TABLE, USE NEXT GREATER SIZE BOX CONCRETE DIMENSIONS AND REINFORCEMENT. MAKE NECESSARY CHANGES IN BAR LENGTHS AND QUANTITIES.
2. QUANTITIES ARE APPROXIMATE AND FOR DESIGN PURPOSES ONLY.
3. FOR BOXES WITH SPAN OR HEIGHT OR COVER GREATER THAN THOSE SHOWN IN TABLES, A SPECIAL DESIGN IS REQUIRED.
4. IT IS PERMISSABLE TO ELIMINATE THE 180° HOOKS ON EVERY OTHER BAR.
5. "e" BARS ARE AT HALF SPACING (SPANS 10'–14' ONLY).
6. "a" BARS ARE AT HALF SPACING (SPANS 10'–14' ONLY).
7. FOR DESIGN AND DETAILS NOT SHOWN, SEE STANDARD PLAN D82.

WESTERN MUNICIPAL WATER DISTRICT — APPROVED BY [signature] DATE 8/13/02

CITY OF RIVERSIDE– PUBLIC UTILITIES, ELECTRIC — APPROVED BY [signature] DATE 8-14-02

REGISTERED PROFESSIONAL ENGINEER MICHAEL KATUSIAN No 36686 Exp. 6/30/04 CIVIL STATE OF CALIFORNIA

Michael Katusian for Revision ⚠ only 12/24/02

* AS-BUILT 6-04-03 4H

Underground Service Alert
Call: TOLL FREE 1 – 800 227 – 2600
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PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

SEAL: REGISTERED PROFESSIONAL ENGINEER TERESITO N. TABIOLO RCE No. 38826 Exp. 3–31–05 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
[signature]
TERESITO N. TABIOLO
REGISTERED CIVIL ENGINEER NO. 38826
EXPIRATION DATE: 3–31–05 DATE: 8-9-02

KCT CONSULTANTS, INC.
Civil Engineers - Surveyors - Planners
P.O. Box 5705 Riverside, CA 92517-5705
4344 Latham St., Suite 200, Riverside, CA 92501
Phone: 909/341-8940 Fax: 909/341-8945
e-mail: kctinc@kctconsultants.com

CITY BUSINESS TAX CERTIFICATE NO. 069540 EXP.4–7–03

BENCHMARK: "L1–A3" ELEVATION=1534.311
P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVE. 82 FEET WESTERLY OF BOX SPRING BLVD. ADJUSTED AND ENTERED MAY 1997.

MARK	REVISIONS	APPR.	DATE
⚠	Revised C.B. locations & laterals	MK	12/24/02

DESIGNED BY T.N.T. DRAWN BY L.B. CHECKED BY T.N.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
DEPUTY P.W. DIRECTOR		
PRINCIPAL ENGINEER		
STREET SERVICES	8/15/02	[initials]
PARK DEPARTMENT	8/19/02	[initials]
PLANNING DEPT.		

APPROVED BY: Tom Boyd
PUBLIC WORKS DIRECTOR
DATE: 8/28/02

STORM DRAIN IMPROVEMENT PLAN

SYCAMORE CANYON BUSINESS PARK
STORM DRAIN PLANS
TITLE SHEET

ACCOUNT NO.
D-709
SHEET 1 OF 5

HORIZ. SCALE: N/A VERT. SCALE: N/A FILE NO.: 1009–15

INDEXED 11-18-02 4H

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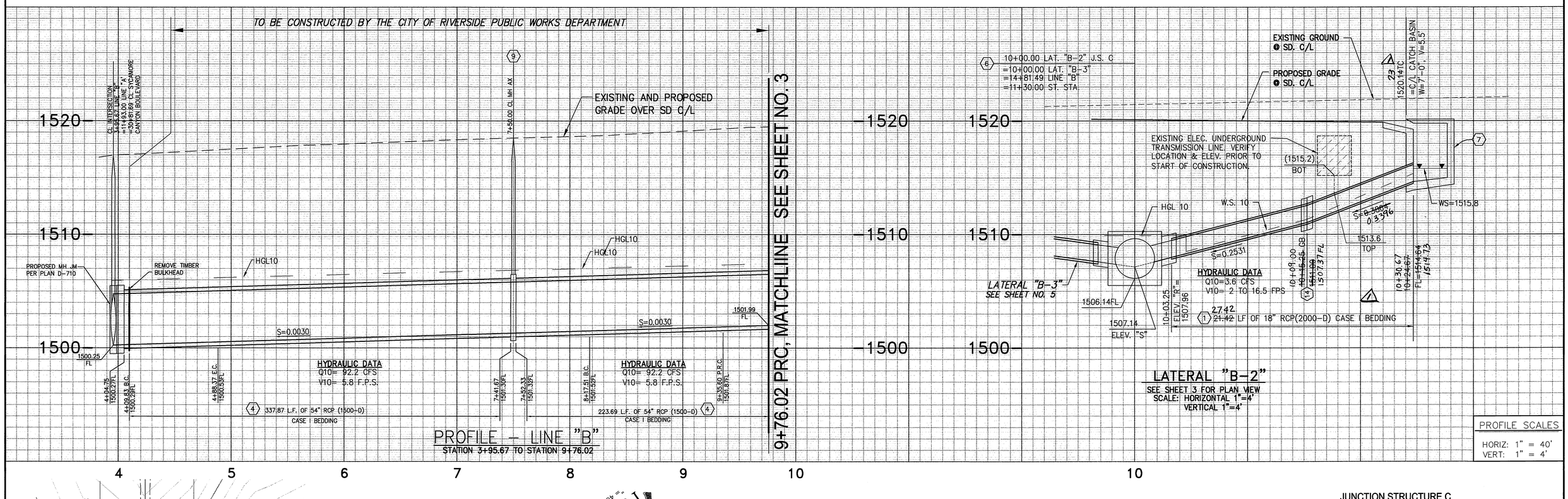
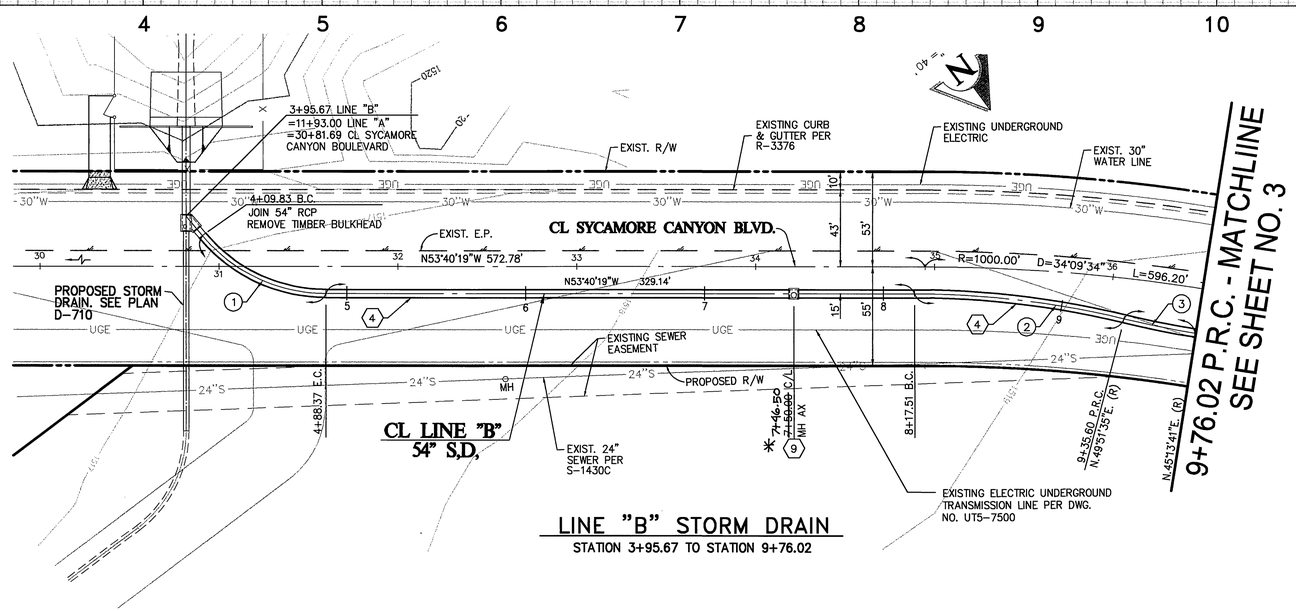
Plot Date: August 08, 2002 – 3:24pm | terry



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



JUNCTION STRUCTURE C TABLE OF VALUES

STA: 14+81.49 LINE "B"
STA: =10+00.00 LATERALS "B-2" & "B-3"
A= 90°00'00" LATERALS "B-2" & "B-3"
C'=3.67' (LATERALS "B-2" & "B-3")
E'=2.50'
L=5.00'
D1=D2=42"
ELEV "R"=1507.96 (LAT. "B-2")
ELEV "R"=1507.58 (LAT. "B-3")
ELEV "S"=1507.14 (LATERALS "B-2" & "B-3")

STORM DRAIN CONSTRUCTION NOTES ⬡

1. INSTALL 18" R.C.P. (2000-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
4. INSTALL 54" R.C.P. (1500-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
6. CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422. SEE JUNCTION STRUCTURE C TABLE OF VALUES THIS SHEET.
7. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405., "W" & "V " AS NOTED ON PLAN. SEE STENCILING ON CATCH BASIN DETAIL "A" ON SHEET 1.
9. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. 430.
14. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. 424.

CURVE DATA

CURVE	RADIUS	DELTA	LENGTH	TANGENT	STA.	STA.
1	90.00'	50°00'00"	78.54'	41.97'	B.C. 4+09.83	E.C. 4+88.37
2	500.00'	13°31'54"	118.09'	59.32'	B.C. 8+17.51	P.R.C. 9+35.60
3	500.00'	04°37'54"	40.42'	20.22'	P.R.C. 9+35.60	P.R.C. 9+76.02

NOTE:

THE FOLLOWING STORM DRAIN FOR LINE "B" AND ITS APURTENANCES ARE TO BE CONSTRUCTED BY THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT.
- STATION 4+09.73 TO STATION 9+76.02

0 20 40 80 120 160
SCALE: 1 INCH = 40 FEET

WESTERN MUNICIPAL WATER DISTRICT
APPROVED BY: 8/13/02 DATE

CITY OF RIVERSIDE- PUBLIC UTILITIES, ELECTRIC
APPROVED BY: 8-14-02 DATE

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PRIVATE ENGINEERING NOTE
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SEAL: REGISTERED PROFESSIONAL ENGINEER — TERESITO N. TABIOLO, RCE No. 38826, Exp. 3-31-05, CIVIL, STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
TERESITO N. TABIOLO
REGISTERED CIVIL ENGINEER NO. 38826
EXPIRATION DATE: 3-31-05 DATE: 8-9-02

KCT CONSULTANTS, INC.
Civil Engineers - Surveyors - Planners
P.O. Box 5705 Riverside, CA 92517-5705
4344 Latham St., Suite 200, Riverside, CA 92501
Phone: 909/941-9940 Fax: 909/941-9945
e-mail: kctinc@kctconsultants.com
CITY BUSINESS TAX CERTIFICATE NO. 069540 EXP. 4-7-03

BENCHMARK: "L1-A3" ELEVATION=1534.311
P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVE. 82 FEET WESTERLY OF BOX SPRING BLVD. ADJUSTED AND ENTERED MAY 1997.

MARK	REVISIONS	APPR.	DATE
1	Revised C.B. & laterals		6/4/03

DESIGNED BY T.N.T. DRAWN BY L.B. CHECKED BY T.N.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
DEPUTY P.W. DIRECTOR		
PRINCIPAL ENGINEER		
STREET SERVICES	8/16/02	
PARK DEPARTMENT	8/16/02	
PLANNING DEPT.		

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE: 8/26/02

STORM DRAIN IMPROVEMENT PLAN
SYCAMORE CANYON BUSINESS PARK
STORM DRAIN PLANS
STORM DRAIN PLAN & PROFILE

ACCOUNT NO. D-709
SHEET 2 OF 5
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4' FILE NO.: 1009-15

* AS-BUILT 6-04-03 4H

INDEXED 11-18-02 4H

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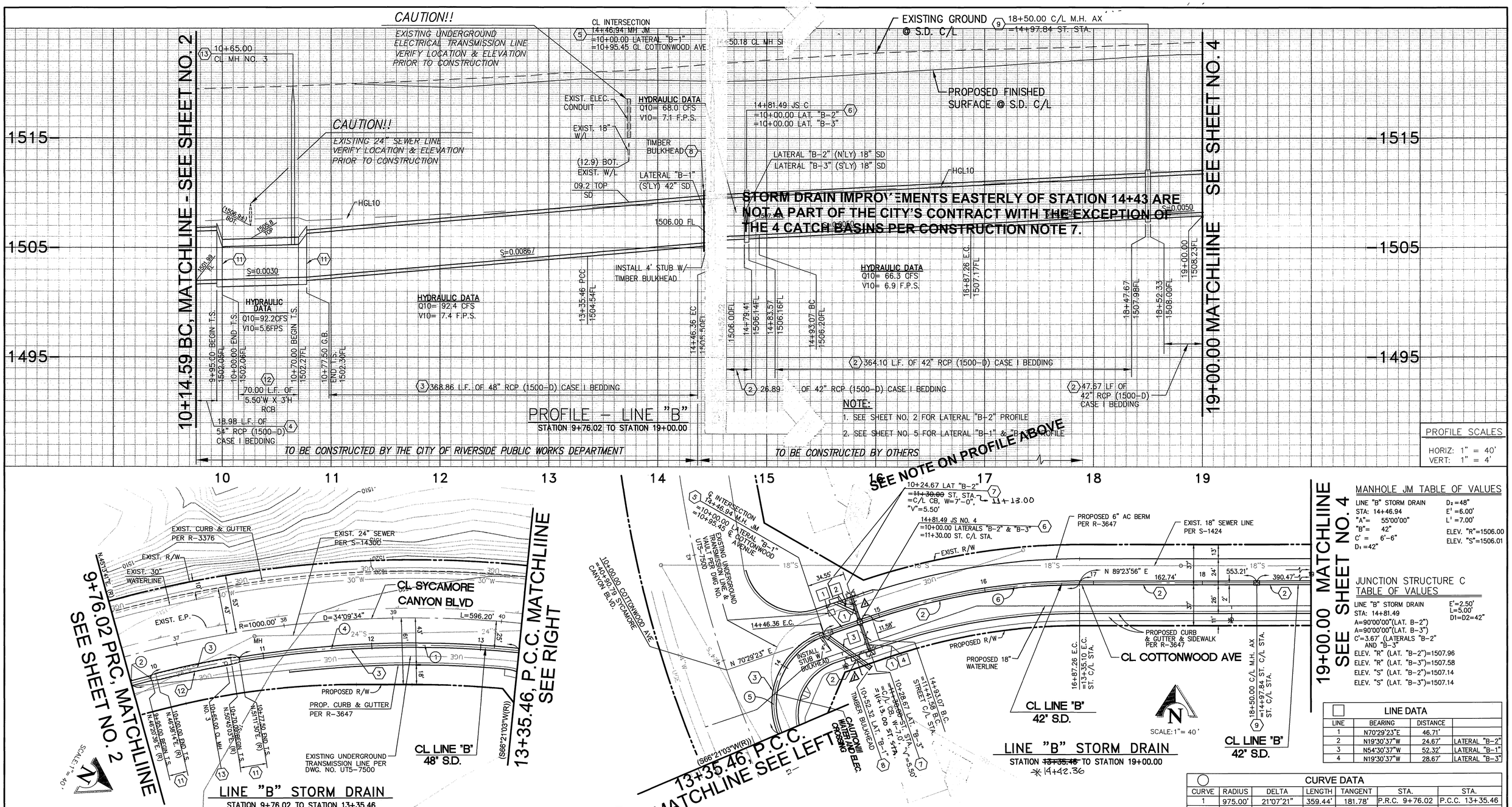

MANHOLE JM TABLE OF VALUES

LINE "B" STORM DRAIN
STA: 14+46.94
"A" = 55°00'00"
"B" = 42"
C' = 6'-6"
D_1 = 42"
D_2 = 48"
E^1 = 6.00'
L^1 = 7.00'
ELEV. "R" = 1506.00
ELEV. "S" = 1506.01

JUNCTION STRUCTURE C TABLE OF VALUES

LINE "B" STORM DRAIN
STA: 14+81.49
A=90°00'00"(LAT. B-2")
A=90°00'00"(LAT. B-3")
C'=3.67' (LATERALS "B-2" AND "B-3"
ELEV. "R" (LAT. "B-2")=1507.96
ELEV. "R" (LAT. "B-3")=1507.58
ELEV. "S" (LAT. "B-2")=1507.14
ELEV. "S" (LAT. "B-3")=1507.14
E'=2.50'
L=5.00'
D1=D2=42"

LINE DATA

LINE	BEARING	DISTANCE	
1	N70°29'23"E	46.71'	
2	N19°30'37"W	24.67'	LATERAL "B-2"
3	N54°30'37"W	52.32'	LATERAL "B-1"
4	N19°30'37"W	28.67'	LATERAL "B-3"

CURVE DATA

CURVE	RADIUS	DELTA	LENGTH	TANGENT	STA.	STA.
1	975.00'	21°07'21"	359.44'	181.78'	P.R.C. 9+76.02	P.C.C. 13+35.46
2	975.00'	01°05'27"	18.56'	9.28'	N/A	N/A
3	975.00'	04°53'50"	83.33'	41.69'	N/A	N/A
4	975.00'	15°08'05"	257.55'	129.53'	N/A	N/A
5	67.50'	94°08'20"	110.90'	72.56'	P.C.C. 13+35.46	E.C. 14+46.36
6	588.39'	18°54'33"	194.19'	97.98'	B.C. 14+93.07	E.C. 16+87.26

NOTE:

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- STATION 9+76.02 TO STATION 14+46.36

*AS-BUILT 6-04-03 4H

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL 18" R.C.P. (2000-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
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4. INSTALL 54" R.C.P. (1500-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
5. CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. 432. SEE MANHOLE JM TABLE FOR DATA.
6. CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422. SEE JUNCTION STRUCTURE C TABLE OF VALUES THIS SHEET.
7. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405., "W" & "V " AS NOTED ON PLAN. SEE STENCILING ON CATCH BASIN DETAIL "A" ON SHEET 1.
8. CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. 456.
9. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. 430.
11. CONSTRUCT TRANSITION STRUCTURE NO. 1 PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. TS301.
12. CONSTRUCT 5'-6"W X 3'-0" H CAST-IN-PLACE REINFORCED CONCRETE SINGLE BOX CULVERT PER DETAIL "B" ON SHEET 1 (CALTRANS STD. DWG. D80).
13. CONSTRUCT MANHOLE NO. 3 PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. MH253.

WESTERN MUNICIPAL WATER DISTRICT
APPROVED BY [signature] DATE 8/13/02

CITY OF RIVERSIDE- PUBLIC UTILITIES, ELECTRIC
APPROVED BY [signature] DATE 8/14/02

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PRIVATE ENGINEERING NOTE

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SEAL: REGISTERED PROFESSIONAL ENGINEER — TERESITO N. TABIOLO, RCE No. 38826, Exp. 3-31-05, CIVIL, STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
TERESITO N. TABIOLO
REGISTERED CIVIL ENGINEER NO. 38826
EXPIRATION DATE: 3-31-05 DATE: 8-9-02

KCT CONSULTANTS, INC.
Civil Engineers - Surveyors - Planners
P.O. Box 5705 Riverside, CA 92517-5705
4344 Latham St., Suite 200, Riverside, CA 92501
Phone: 909/341-8940 Fax: 909/341-8945
e-mail: kctinc@kctconsultants.com
CITY BUSINESS TAX CERTIFICATE NO. 069540 EXP. 4-7-03

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MARK	REVISIONS	APPR.	DATE
1	Changed low Point & C.B. locations	[illegible]	12/24/02

DESIGNED BY T.N.T. DRAWN BY L.B. CHECKED BY T.N.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
DEPUTY P.W. DIRECTOR			
PRINCIPAL ENGINEER			
STREET SERVICES	8/15/02	[illegible]	
PARK DEPARTMENT	8/16/02	[illegible]	
PLANNING DEPT.			

APPROVED BY: [signature] PUBLIC WORKS DIRECTOR DATE: 8/26/02

STORM DRAIN IMPROVEMENT PLAN
SYCAMORE CANYON BUSINESS PARK
STORM DRAIN PLANS
STORM DRAIN PLAN & PROFILE

ACCOUNT NO. D-709
SHEET 3 OF 5
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'
FILE NO.: 1009-15

INDEXED 11-18-02 4H

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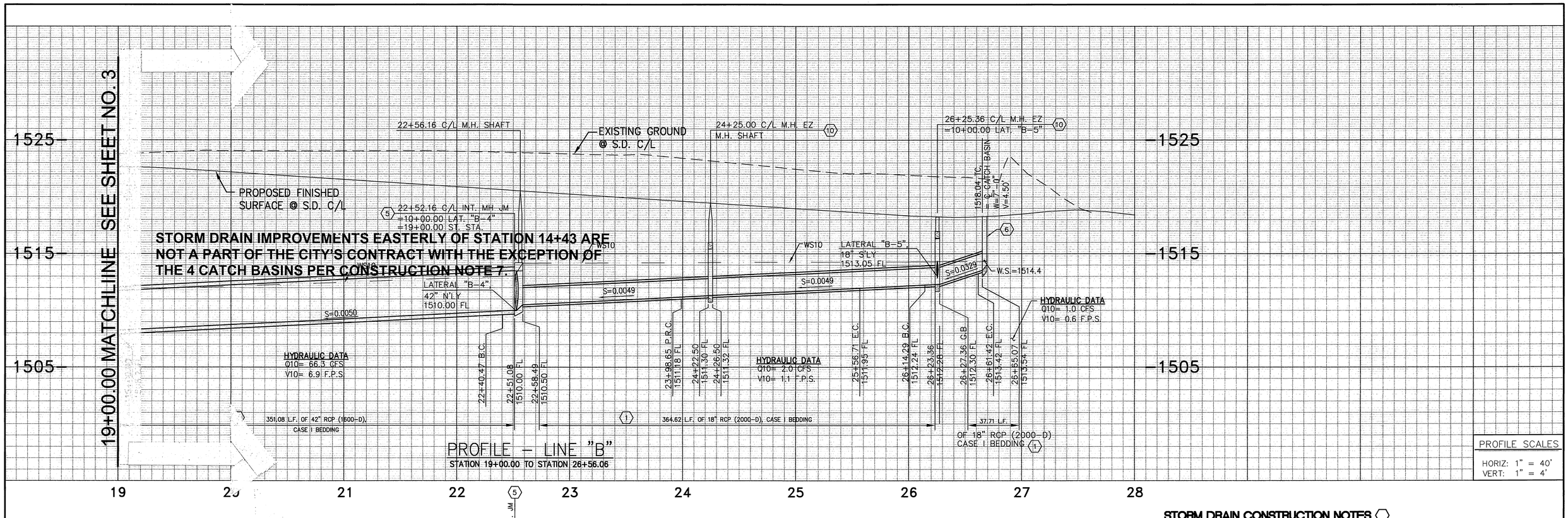
Plot Date: August 08, 2002 - 3:23am | lerry



STORM DRAIN CONSTRUCTION NOTES

1. INSTALL 18" R.C.P. (2000-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
2. INSTALL 42" R.C.P. (1600-D) PIPE BEDDING (CASE I) PER CITY OF RIVERSIDE STD. DWG. NO. 452.
5. CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. 432. SEE MANHOLE JM TABLE FOR DATA.
7. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405., "W" & "V " AS NOTED ON PLAN. SEE STENCILING ON CATCH BASIN DETAIL "A" ON SHEET 1.
8. CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. 456.
9. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. 430.
10. CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. 431.

MANHOLE JM TABLE OF VALUES

LINE "B" STORM DRAIN
STA: 22+52.16
A = 45'00'00"
B = 42"
C_1 = 7'-0"
D_1 = 36" (SEE NOTE BELOW)
D_2 = 42"
E' = 6.75'
L' = 8.25'
ELEV. "R" = 1510.30
ELEV. "S" = 1510.00

NOTE:
MAKE UPSTREAM D=36" AND POUR WALL AROUND 18" PIPE.

CURVE DATA: ◯

CURVE	RADIUS	DELTA	LENGTH	TANGENT	STA.	STA.
1	5002.00'	00°08'02"	11.69'	5.85'		
2	5002.00'	01°40'41"	146.49'	73.25'		
3	5002.00'	01°48'43"	158.18'	79.10'	B.C. 22+40.47	P.R.C. 23+98.65
4	4998.00'	00°18'07"	26.35'	13.18'		
5	4998.00'	01°30'35"	131.71'	65.86'		
6	4998.00'	01°48'43"	158.06'	79.04'	P.R.C. 23+98.65	E.C. 25+56.71
7	45.00'	14°43'40"	11.57'	5.82'		
8	45.00'	45°16'20"	35.56'	18.76'		
9	45.00'	60°00'00"	47.13'	25.98'	B.C. 26+14.29	E.C. 26+61.42

LINE DATA: ☐

LINE	BEARING	DISTANCE	
1	N44°35'49"E	59.75'	LATERAL "B-4"
2	N29°23'56"E	3.65'	LINE "B"
3	N45°36'04"W	41.49'	LATERAL "B-5"

*AS-BUILT 6-04-03 GH

WESTERN MUNICIPAL WATER DISTRICT
APPROVED BY — DATE 8/13/02

CITY OF RIVERSIDE– PUBLIC UTILITIES, ELECTRIC
APPROVED BY — DATE 8-14-02

Underground Service Alert
Call: TOLL FREE
1 – 800
227 – 2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

SEAL: REGISTERED PROFESSIONAL ENGINEER — TERESITO N. TABIOLO — RCE No. 38826 — EXP. 3-31-05 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
TERESITO N. TABIOLO
REGISTERED CIVIL ENGINEER NO. 38826
EXPIRATION DATE: 3-31-05 DATE: 8-9-02

KCT CONSULTANTS, INC.
Civil Engineers - Surveyors - Planners
P.O. Box 5705 Riverside, CA 92517-5705
4344 Latham St., Suite 200, Riverside, CA 92501
Phone: 909/941-8940 Fax: 909/941-8945
e-mail: kctinc@kctconsultants.com
CITY BUSINESS TAX CERTIFICATE NO. 069540 EXP.4-7-03

BENCHMARK: "L1-A3" ELEVATION=1534.311
P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVE. 82 FEET WESTERLY OF BOX SPRING BLVD. ADJUSTED AND ENTERED MAY 1997.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY T.N.T. DRAWN BY L.B. CHECKED BY T.N.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
DEPUTY P.W. DIRECTOR		
PRINCIPAL ENGINEER		
STREET SERVICES	8/15/02	
PARK DEPARTMENT	8/19/02	
PLANNING DEPT.		

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE: 8/26/02

STORM DRAIN IMPROVEMENT PLAN
SYCAMORE CANYON BUSINESS PARK
STORM DRAIN PLANS
STORM DRAIN PLAN & PROFILE

ACCOUNT NO. D-709
SHEET 4 OF 5
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4' FILE NO.: 1009-15

INDEXED 11-18-02 GH

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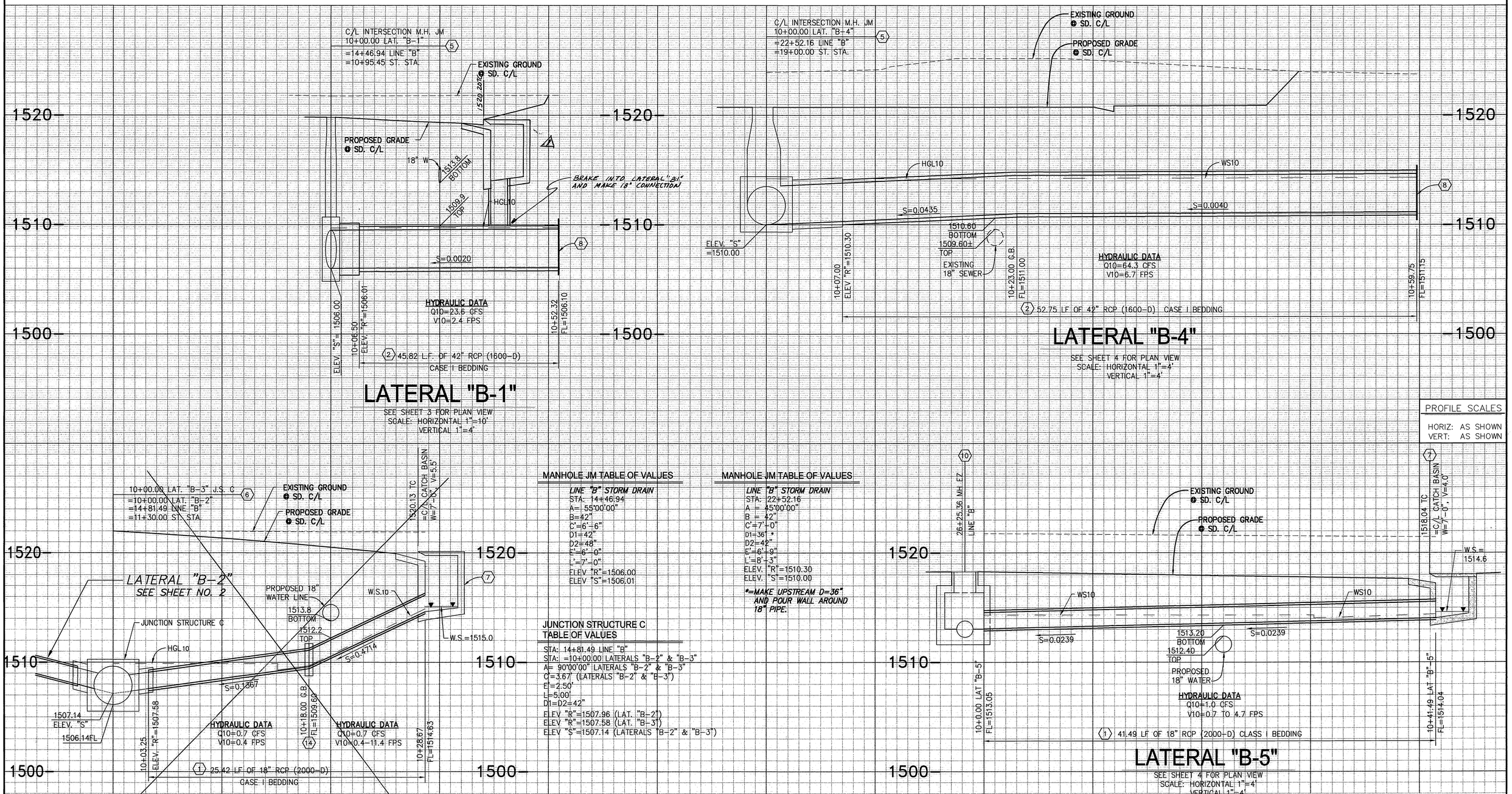
Plot Date: August 09, 2002 – 7:16am | Jerry



MANHOLE JM TABLE OF VALUES

LINE "B" STORM DRAIN
STA: 14+46.94
A= 55°00'00"
B=42"
C'=6'-6"
D1=42"
D2=48"
E'=6'-0"
L'=7'-0"
ELEV "R"=1506.00
ELEV "S"=1506.01

MANHOLE JM TABLE OF VALUES

LINE "B" STORM DRAIN
STA: 22+52.16
A = 45°00'00"
B = 42"
C'=7'-0"
D1=36" *
D2=42"
E'=6'-9"
L'=8'-3"
ELEV. "R"=1510.30
ELEV. "S"=1510.00

*=MAKE UPSTREAM D=36" AND POUR WALL AROUND 18" PIPE.

JUNCTION STRUCTURE C TABLE OF VALUES

STA: 14+81.49 LINE "B"
STA: =10+00.00 LATERALS "B-2" & "B-3"
A= 90°00'00" LATERALS "B-2" & "B-3"
C'=3.67' (LATERALS "B-2" & "B-3")
E'=2.50'
L=5.00'
D1=D2=42"
ELEV "R"=1507.96 (LAT. "B-2")
ELEV "R"=1507.58 (LAT. "B-3")
ELEV "S"=1507.14 (LATERALS "B-2" & "B-3")

STORM DRAIN CONSTRUCTION NOTES

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5. CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. 432. SEE MANHOLE JM TABLE FOR DATA.
6. CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422. SEE JUNCTION STRUCTURE C TABLE OF VALUES THIS SHEET.
7. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405., "W" & "V " AS NOTED ON PLAN. SEE STENCILING ON CATCH BASIN DETAIL "A" ON SHEET 1.
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14. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. 424.

*AS-BUILT 6-04-03 LFH

WESTERN MUNICIPAL WATER DISTRICT
APPROVED BY — DATE 8/13/02

CITY OF RIVERSIDE- PUBLIC UTILITIES, ELECTRIC
APPROVED BY — DATE 8-14-02

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SEAL
REGISTERED PROFESSIONAL ENGINEER
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RCE No. 38826
Exp. 3-31-05
CIVIL
STATE OF CALIFORNIA

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TERESITO N. TABIOLO
REGISTERED CIVIL ENGINEER NO. 38826
EXPIRATION DATE: 3-31-05 DATE: 8-7-02

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4344 Latham St., Suite 200, Riverside, CA 92501
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MARK	REVISIONS	APPR.	DATE
1	Revised CB & laterals		12/3/02

DESIGNED BY T.N.T. DRAWN BY L.B. CHECKED BY T.N.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
DEPUTY P.W. DIRECTOR		
PRINCIPAL ENGINEER		
STREET SERVICES	8/15/02	
PARK DEPARTMENT	8/15/02	
PLANNING DEPT.		

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE: 8/14/02

STORM DRAIN IMPROVEMENT PLAN
SYCAMORE CANYON BUSINESS PARK
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ACCOUNT NO. D-709
SHEET 5 OF 5
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VERT. SCALE:
FILE NO.: 1009-15

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