

# STORM DRAIN PLANS

## STORM DRAIN GENERAL NOTES

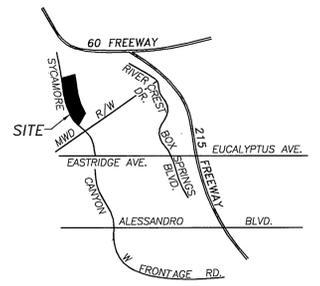
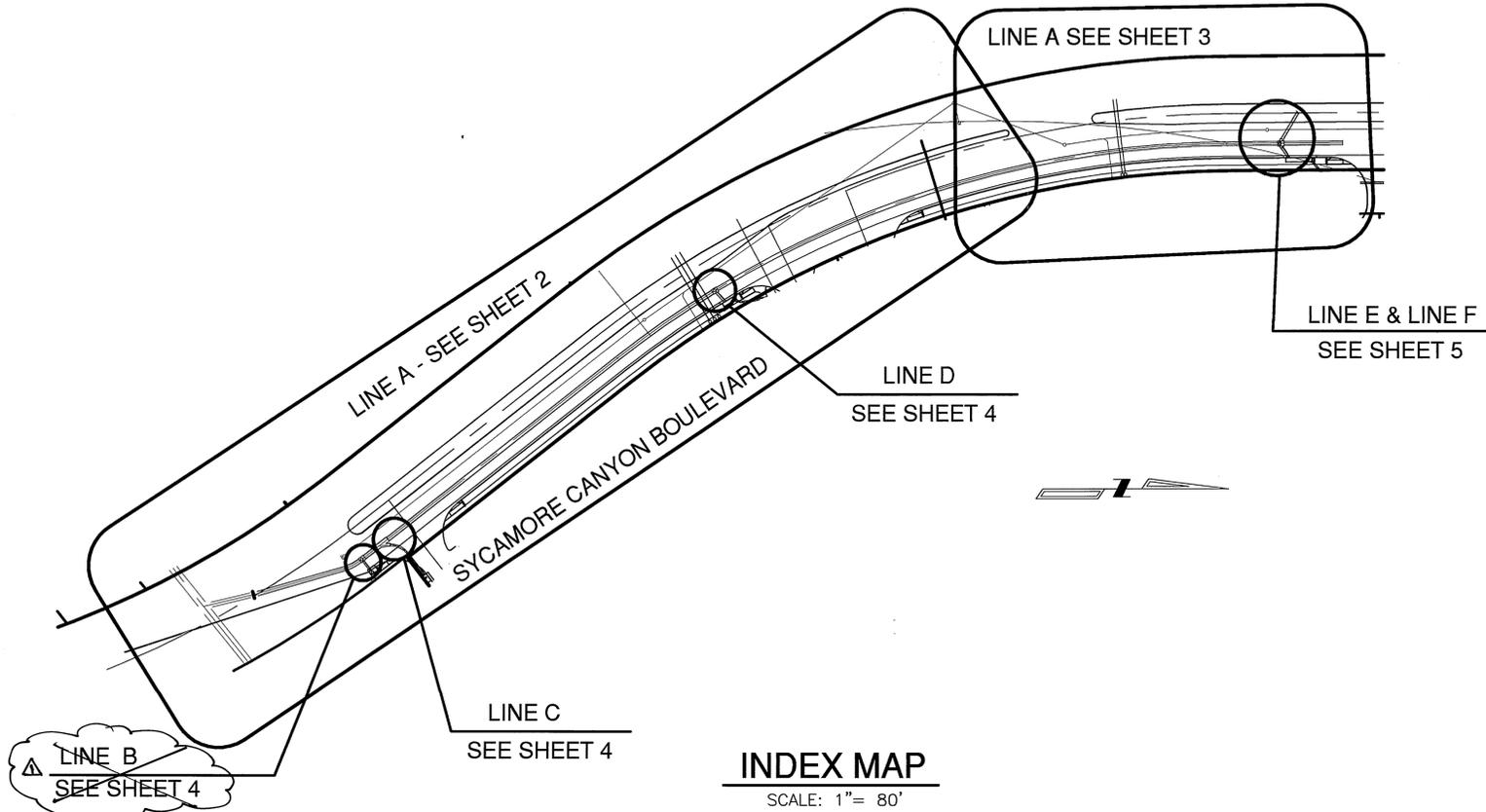
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 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.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 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.
- ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
- BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
- ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE (5) DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.

## NOTICE TO CONTRACTOR

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THIS PLAN ARE OBTAINED BY SEARCH OF 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 UTILITIES SHOWN AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS.
- ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATION" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS."
- THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, "CONSTRUCTION SAFETY ORDERS."
- CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY 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.

ALL REVISIONS MARKED AS Δ  
 PREPARED UNDER THE DIRECT  
 SUPERVISION OF ALLEN W. MARTIN  
 REG 38463, EXP. 3-31-07

*[Signature]* 9/16/05



VICINITY MAP  
 NOT TO SCALE

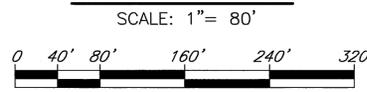
## LEGEND:

- TOP OF CURB \_\_\_\_\_ TC
  - FINISHED SURFACE \_\_\_\_\_ FS
  - FLOWLINE \_\_\_\_\_ FL
  - HIGH POINT \_\_\_\_\_ HP
  - GRADE BREAK \_\_\_\_\_ GB
  - FINISHED GRADE \_\_\_\_\_ FG
  - POWER POLE \_\_\_\_\_ PP
- 
- CONCRETE [Pattern]
  - A. C. PAVEMENT [Pattern]

## SHEET INDEX:

- SHEET 1 . . . . . COVER SHEET/INDEX MAP
- SHEET 2 . . . . . STORM DRAIN PLAN AND PROFILE
- SHEET 3 . . . . . STORM DRAIN PLAN AND PROFILE
- SHEET 4 . . . . . STORM DRAIN PLAN AND PROFILE

## INDEX MAP



## QUANTITIES

NO.	ESTIMATED	UNIT	DESCRIPTION
1	1,126	LF	48" DIA. R.C.P. STORM DRAIN (1100-D)
2	61	LF	42" DIA. R.C.P. STORM DRAIN (1100-D)
3	57	LF	18" DIA. R.C.P. STORM DRAIN (2000-D)
4	13	LF	24" DIA. R.C.P. STORM DRAIN (1250-D)
5	1	EA	JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. NO. 421
6	2	EA	MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
7	X	X	<del>JUNCTION STRUCTURE "C" PER CITY OF RIVERSIDE STD. DWG. NO. 422</del>
8	X	X	<del>CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5')</del>
9	1	EA	CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5')
10	1	EA	CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=14', V=9.78')
11	1	EA	CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=28', V=10')
12	31	LF	15" DIA. R.C.P. STORM DRAIN (2000-D)
13	13	LF	30" DIA. R.C.P. STORM DRAIN (1250-D)
14	2	EA	TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. NO. 456
15	1	EA	MANHOLE 3m PER CITY OF RIVERSIDE STD. DWG. NO. 432

## CONSTRUCTION NOTES:

- CONSTRUCT 48" DIA. R.C.P. STORM DRAIN (1100-D)
- CONSTRUCT 42" DIA. R.C.P. STORM DRAIN (1100-D)
- CONSTRUCT 18" DIA. R.C.P. STORM DRAIN (1500-D)
- CONSTRUCT 24" DIA. R.C.P. STORM DRAIN (1250-D)
- CONSTRUCT JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. NO. 421
- CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
- ~~CONSTRUCT JUNCTION STRUCTURE "C" PER CITY OF RIVERSIDE STD. DWG. NO. 422~~
- ~~CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5')~~
- CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5')
- CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=14', V=9.78')
- CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=28', V=10')
- CONSTRUCT 15" DIA. R.C.P. STORM DRAIN (2000-D)
- CONSTRUCT 30" DIA. R.C.P. STORM DRAIN (1250-D)
- CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. NO. 456
- CONSTRUCT MANHOLE 3m PER CITY OF RIVERSIDE STD. DWG. NO. 432

## UTILITY INFORMATION

- CONTACT UTILITY COMPANIES BEFORE EXCAVATION
- SBC (951) 359-2273
  - SOUTHERN CALIF. GAS CO. (951) 335-7716
  - CITY OF RIVERSIDE
    - \*ELECTRIC (951) 826-5488
    - WATER (951) 826-5442
    - SEWER (951) 826-5341
  - \*CONTACT RIVERSIDE ELECTRIC CO. 60 DAYS IN ADVANCE OF CONSTRUCTION FOR RELOCATION OF EXISTING POWER POLE
  - WESTERN MUNICIPAL WATER DISTRICT (951) 789-5000

24111 (SHT. 1 COVER SHEET) 08-02-05

**DIGALERT**  
 DIAL BEFORE YOU DIG  
 TWO WORKING DAYS BEFORE YOU DIG  
 TOLL FREE 1-800-227-2600  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

BENCH MARK:  
 CITY OF RIVERSIDE B.M.  
 L1-A3  
 PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVENUE, 82 FEET WESTERLY OF BOX SPRINGS BLVD.  
 ELEVATION: 1534.311

REVIEWED BY:  
 WESTERN MUNICIPAL WATER DISTRICT  
 FOR NON-INTERFERENCE COMPLIANCE

SHEET 1 THROUGH 4

CIVIL ENGINEER *[Signature]* RCE 46212 DATE 8/4/05

ELECTRIC *[Signature]* DATE 8/5/05

REGISTERED PROFESSIONAL ENGINEER  
 ALLEN W. MARTIN  
 No. 38463  
 EXP. 3-31-07  
 CIVIL  
 STATE OF CALIFORNIA

**Southland Engineering**  
 2209 BUSINESS WAY, Ste. 100  
 RIVERSIDE, CA 92501  
 (951) 788-8488

PREPARED UNDER THE SUPERVISION OF  
*[Signature]* DATE 8/5/05  
 ALLEN W. MARTIN R.C.E. 38463 EXP. 3-31-07

APPROVED BY: *[Signature]* DATE 9/16/05

PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION

DESIGNED BY: JH DRAWN BY: AR CHECKED BY: AMM

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE 9/16/05

CITY ENGINEER

STREET SERVICES

**STORM DRAIN PLANS**  
 TITLE SHEET  
 SYCAMORE CANYON BOULEVARD  
 PM 24733  
 P04-0741 P04-0567

SCALE: AS NOTED

ACCOUNT NO. PW05-0463

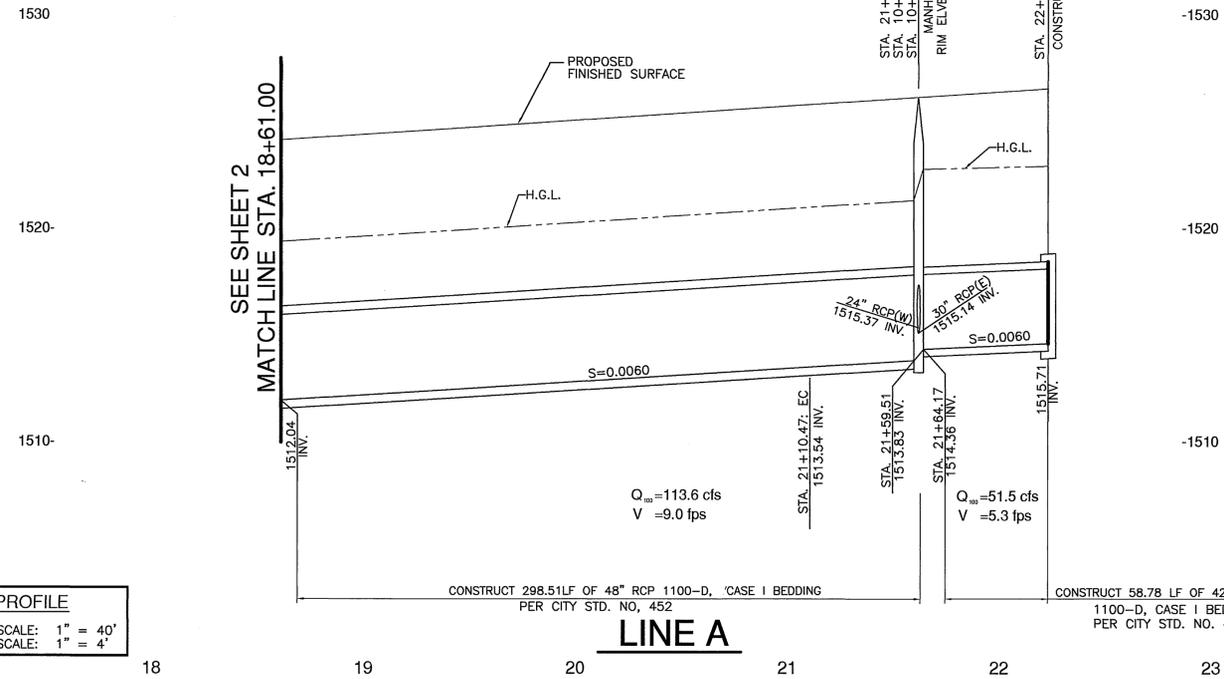
**D-783**

SHEET 1 OF 4

24111

INDEXED 9-26-05 fll



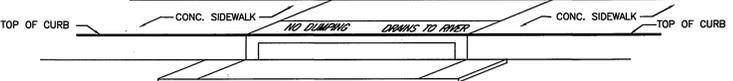


**PROFILE**  
 HORIZ. SCALE: 1" = 40'  
 VERT. SCALE: 1" = 4'

PIPE CURVE DATA

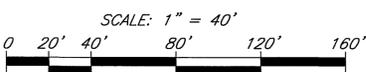
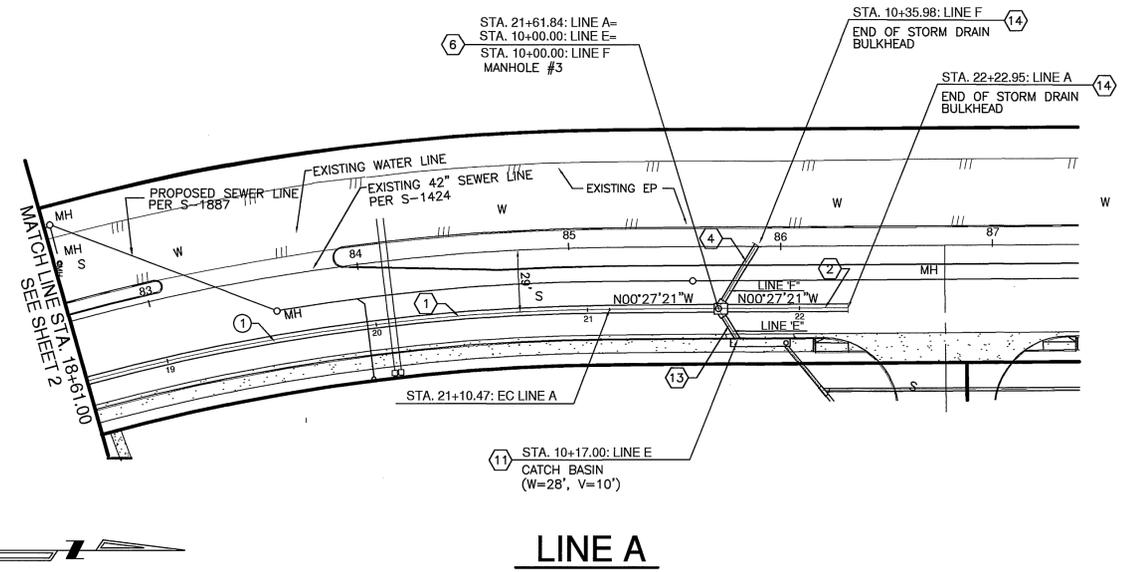
#	Δ	R	L	T
①	14°43'14"	971.00'	249.47'	125.43'

- CONSTRUCTION NOTES:**
- ①—CONSTRUCT 48" R.C.P. STORM DRAIN (1100-D)
  - ②—CONSTRUCT 42" DIA. R.C.P. STORM DRAIN (1100-D)
  - ④—CONSTRUCT 24" DIA. R.C.P. STORM DRAIN (1250-D)
  - ⑥—CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
  - ⑪—CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=28', V=10')
  - ⑬—CONSTRUCT 30" DIA. R.C.P. STORM DRAIN (1250-D)
  - ⑭—CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. NO. 456



**CATCH BASIN STENCILING DETAIL**  
 N.T.S.

- Ⓐ STENCILS TO HAVE 2" LETTERS AS FOLLOWS:  
NO DUMPING  
DRAINS TO RIVER
- Ⓑ PLACE BOTH STENCILS CENTERED WITHIN THE CATCHBASIN OPENING AND WITHIN THE TOP OF CURB.
- Ⓒ SPRAY BOTH STENCILS WITH WHITE PAINT.
- Ⓓ REMOVE STENCILS WHEN PAINT IS DRY.



CITY TAX CERTIFICATE NO. 027049 EXP. 1-25-06

**DIGALERT**  
 DIAL BEFORE YOU DIG  
 TWO WORKING DAYS BEFORE YOU DIG  
 TOLL FREE 1-800-227-2600  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

BENCH MARK:  
 CITY OF RIVERSIDE B.M.  
 L1-A3  
 PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVENUE, 82 FEET WESTERLY OF BOX SPRINGS BLVD.  
 ELEVATION: 1534.311



**Southland Engineering**  
 2200 BUSINESS WAY, Ste. 100  
 RIVERSIDE, CA 92501  
 (951) 788-8488  
 PREPARED UNDER THE SUPERVISION OF  
 ALLEN W. MARTIN, R.C.E. 38463  
 DATE: 8/5/05  
 EXP. 3-31-07

MARK	REVISIONS	APPR.	DATE

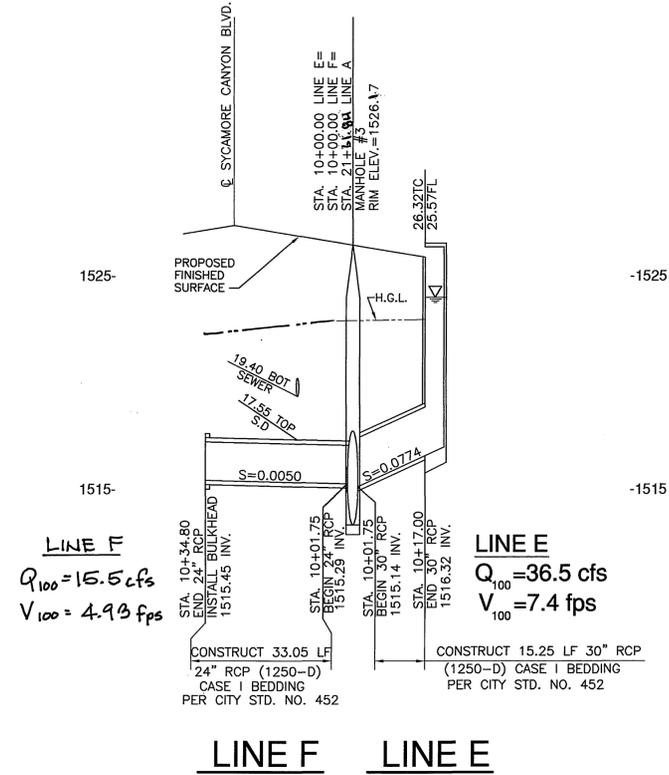
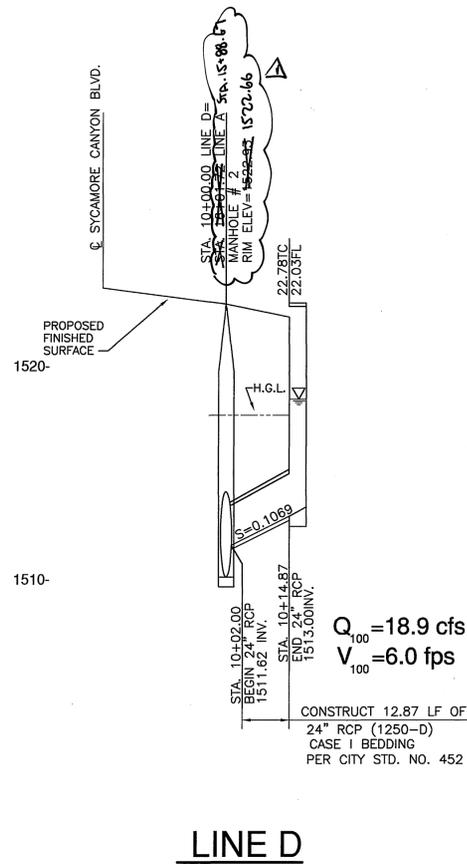
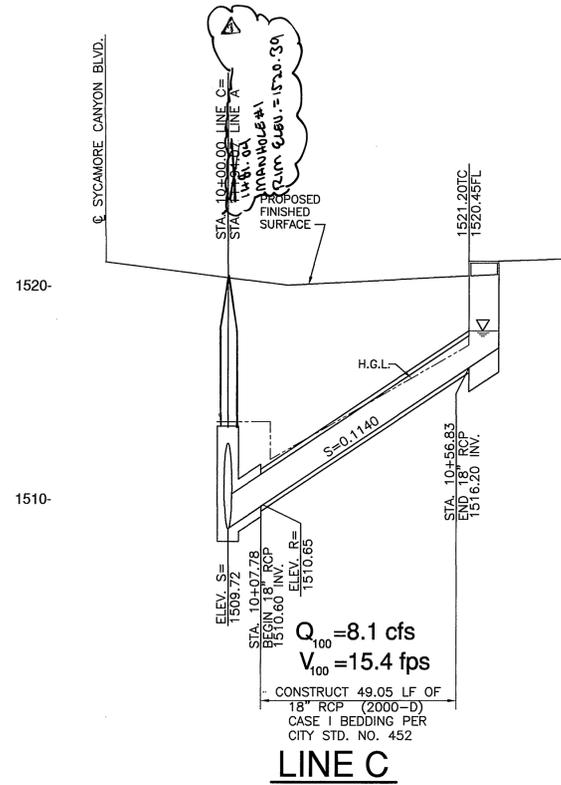
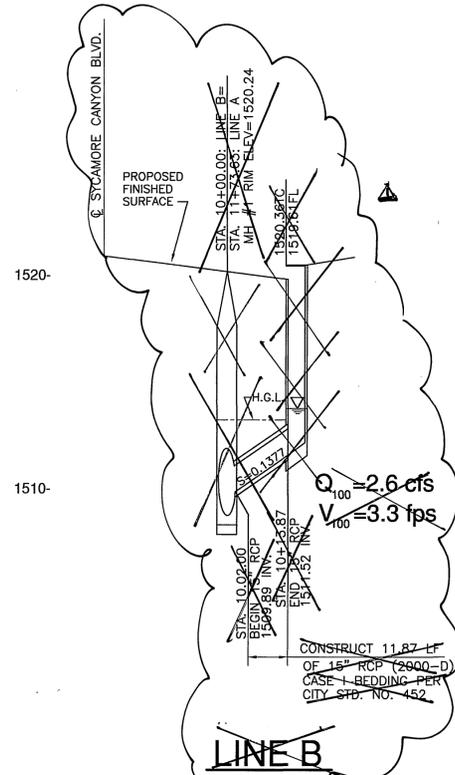
**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature] DATE: 9/6/05  
 PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CITY ENGINEER

**STORM DRAIN PLANS**  
 PM 24733  
 SYCAMORE CANYON BOULEVARD  
 LINE A  
 FROM STA. 18+61.00 TO STA. 22+22.95  
 P04-0567 P04-0741  
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PW05-0463  
 ACCOUNT NO.  
**D-783**  
 SHEET **3** OF **4**  
 24111

24111 (ent. 4 storm drain plan) 08-02-04

INDEXED 9-26-05 LHM



**PROFILE**  
 HORIZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" = 4'

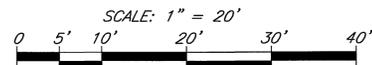
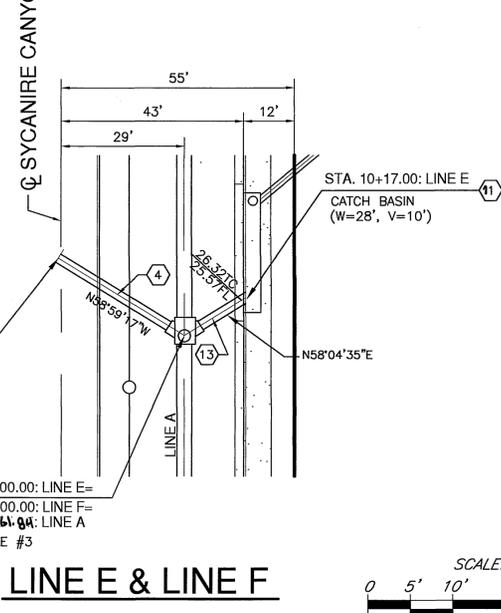
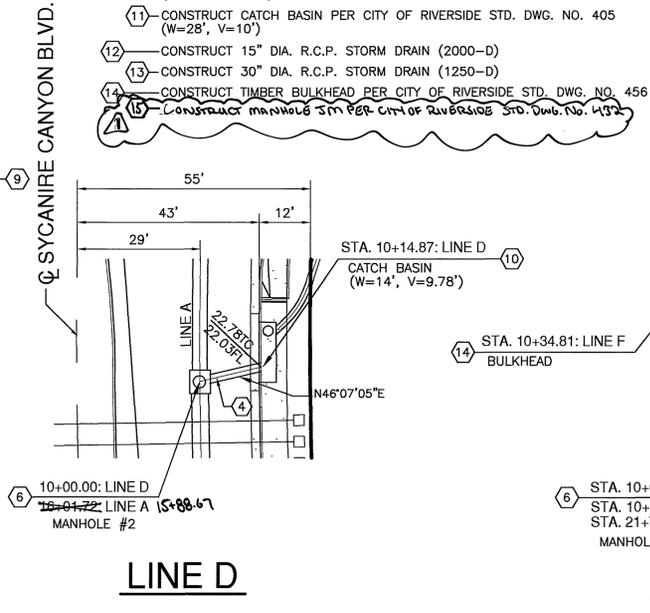
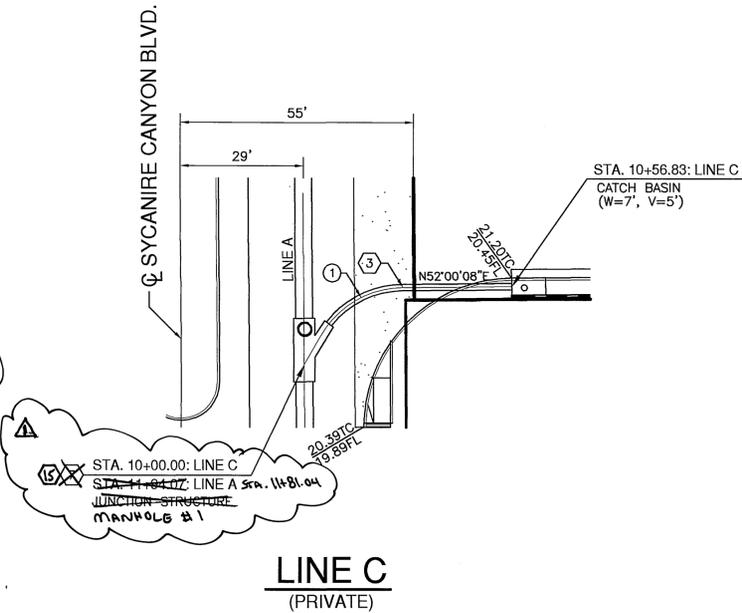
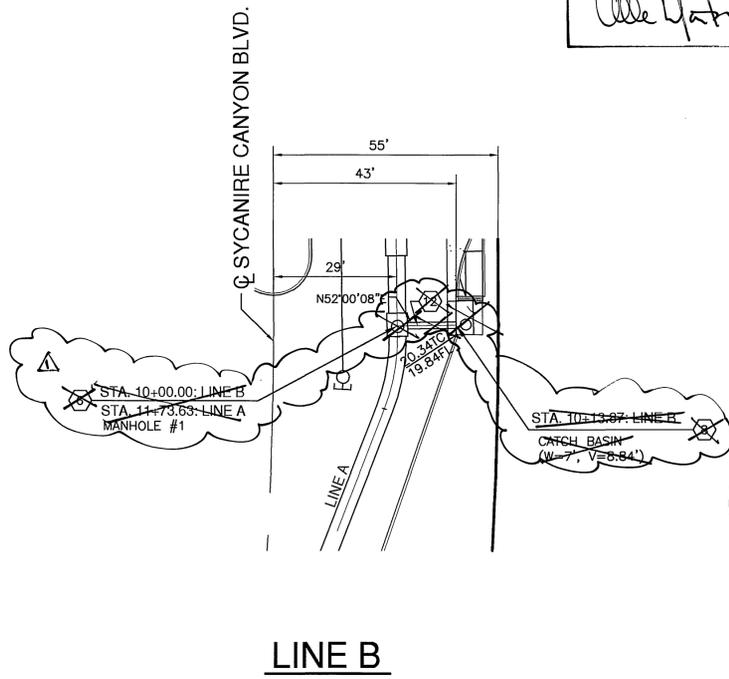
ALL REVISIONS MARKED AS  $\Delta$   
 PREPARED UNDER THE DIRECT  
 SUPERVISION OF ALLEN W. MARTIN  
 RCE 38463, Exp. 3-31-07

*Allen W. Martin* 9/20/05

PIPE CURVE DATA

#	$\Delta$	L	R	T
1	60°00'00"	22.50'	23.56'	12.99'

- CONSTRUCTION NOTES:
- CONSTRUCT 18" DIA. R.C.P. STORM DRAIN (2000-D)
  - CONSTRUCT 24" DIA. R.C.P. STORM DRAIN (1250-D)
  - CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
  - CONSTRUCT JUNCTION STRUCTURE PER CITY OF RIVERSIDE STD. DWG. NO. 422
  - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5.84')
  - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=7', V=5')
  - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=14', V=9.78')
  - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=28', V=10')
  - CONSTRUCT 15" DIA. R.C.P. STORM DRAIN (2000-D)
  - CONSTRUCT 30" DIA. R.C.P. STORM DRAIN (1250-D)
  - CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. NO. 456
  - CONSTRUCT MANHOLE SM PER CITY OF RIVERSIDE STD. DWG. NO. 432



24111 (sht 10 storm drain plan) 08-02-05

**DIGALERT**  
 DIAL BEFORE YOU DIG  
 TWO WORKING DAYS BEFORE YOU DIG  
 TOLL FREE 1-800-227-2600  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

BENCH MARK:  
 CITY OF RIVERSIDE B.M.  
 L1-A3  
 PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVENUE, 82 FEET WESTERLY OF BOX SPRINGS BLVD.  
 ELEVATION: 1534.311



**Southland Engineering**  
 2200 BUSINESS WAY, Ste. 100  
 RIVERSIDE, CA 92501  
 (951) 788-8488

PREPARED UNDER THE SUPERVISION OF  
*Allen W. Martin* 8/5/05  
 ALLEN W. MARTIN R.C.E. 38463 EXP. 3-31-07

MARK	REVISIONS	APPR.	DATE
$\Delta$	OMIT LINE "B", CATCH BASIN, RIZ P-20-05		
$\Delta$	ADD MANHOLE AX		
$\Delta$	ADD MANHOLE SM		

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *Allen W. Martin* 9/16/05  
 PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 STREET SERVICES

**STORM DRAIN PLANS**  
 PM 24733  
 LINES B, C, D, E AND F  
 SYCAMORE CANYON BOULEVARD

P04-0567 P04-0741  
 HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

PW05-0463  
 ACCOUNT NO.  
**D-783**  
 SHEET **4** OF **4**  
 W.O. 24111

INDEXED 9-26-05 left