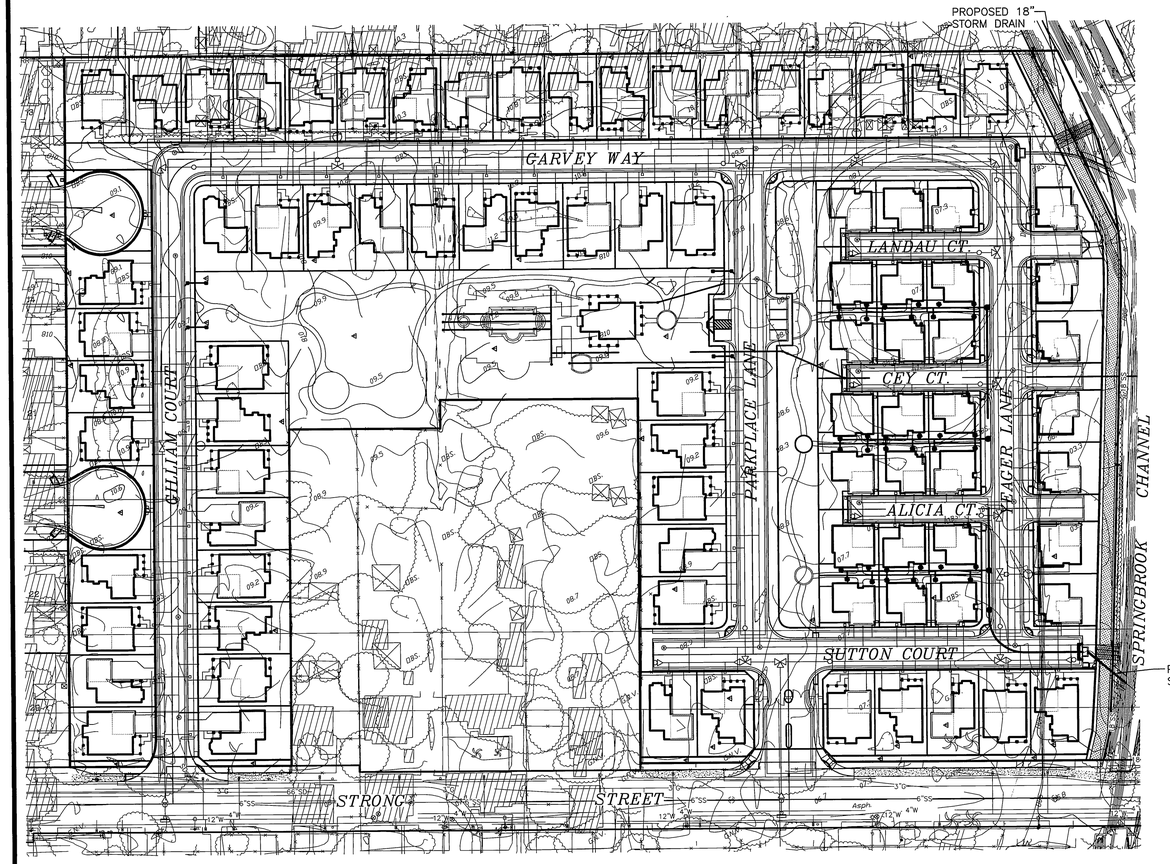
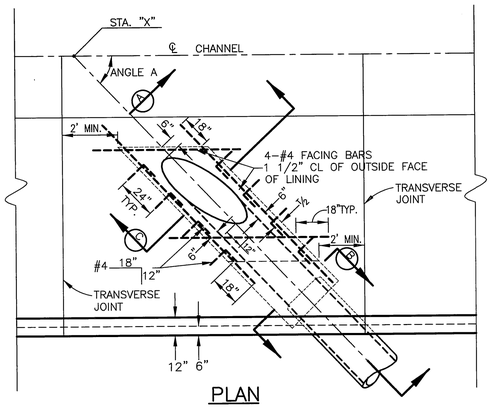
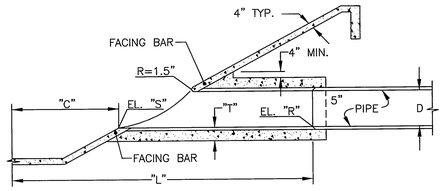
PRIVATE STORM DRAIN IMPROVEMENTS PLAN
CITY OF RIVERSIDE, CALIFORNIA

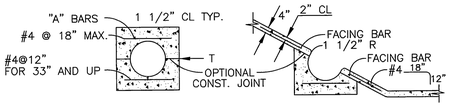




PLAN



SECTION A



SECTION B SECTION C

JUNCTION STRUCTURE NO.6* (4)

RIVERSIDE COUNTY FLOOD CONTROL STANDARD DRAWING NO. JS 231
N.T.S.

* STANDARD DETAILS SHOWN ARE FOR INFORMATION PURPOSES ONLY, CONTRACTOR SHALL REFER TO THE SPECIFIED OFFICAL STANDARD DETAIL TO VERIFY CRITICAL DIMENSION AND MATERIAL SPECIFICATIONS.

TABLE

FOR DIMENSIONS AND BAR SIZES

D (IN)	T (IN)	"A" BARS
18	9	NO LONGITUDINAL OR "A" BARS
21	9	
24	9	
27	9	
30	9	
33	7	#4 @ 6"
36	7	
39	7	
42	8	#5 @ 6"
45	8	
48	8	
51	9	
54	9	
57	10	
60	10	
63	10	
66	11	
69	11	
72	11	
78	12	
84	13	

NOTES:

1. VALUES FOR D,L,C,EL.S,R, ANGLE A AND STA."X" ARE TO BE SHOWN ON PROJECT DRAWINGS.

D=18"	D=15"
L=36.47'	L=17.43'
C=28.47'	C=9.43'
4A=51°11'25"	4A=56°53'47"
STA "X"=1+00.00	STA "X"=1+00.00
EL S=801.60	EL S=797.00
EL R=801.68	EL R=797.08

2. REINFORCING BARS SHALL BE PLACED 1.5" CLEAR FROM FACE OF CONCRETE.
3. CONCRETE SHALL BE CLASS "B".
4. PLACE #4-12"X18" BARS WITH SHORT LEG HORIZONTAL IN VERTICAL J.S. WALL ROTATE LONGER LEG INTO CENTER OF SLOPE PAVING.
5. REINFORCEMENT SHALL BE PROVIDED IN ALL PORTIONS OF THE JUNCTION STRUCTURE AS INDICATED ON DRAWINGS REGARDLESS OF BAR LENGTH MODIFICATION REQUIRED TO ACHIEVE PROPER CLEARANCES.

GENERAL NOTES

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-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.
2. 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.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISE DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY PRIVATE ENGINEER.
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 BY INQUIRY IDENTIFICATION NUMBER BY USA.
8. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.
9. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.

LEGEND

T.C.	TOP OF CURB
F.S.	FINISHED SURFACE
C.L.	CENTER LINE
R/W	RIGHT OF WAY
B.C.	BEGIN CURVE
E.C.	END CURVE
L.P.	LOW POINT

BENCHMARK

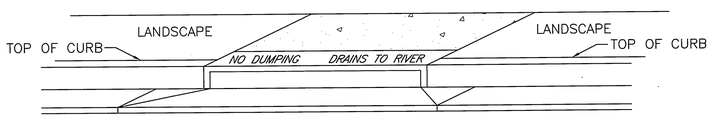
CITY OF RIVERSIDE BENCH MARK GPS-51: 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 51 1991 CADME" SET IN THE TOP OF A CATCH BASIN ALONG THE NORTHERLY CURB OF COLUMBIA AVENUE, 4 FEET EAST OF THE BCR OF THE NORTHEAST OF MAIN STREET AT COLUMBIA AVENUE. ELEV.=813.66

BASIS OF BEARINGS

THE BASIS OF BEARINGS WAS TAKEN FROM THE CENTERLINE OF STRONG STREET AS SHOWN ON THE ALAMO TRACT FILED IN BOOK 9, PAGE 5, RECORDS OF RIVERSIDE COUNTY.
SAID LINE BEARS N 60°57'00" W.

SPECIAL NOTES:

1. UTILITY MAINS INSTALLED AT DEPTH MAY REQUIRE ANCHORING AT THE DISCRETION OF THE SOILS ENGINEER.
2. UTILITIES PLACED WILL REQUIRE 2 SQUARE FEET OF CRUSHED ROCK OR GRAVEL PER FOOT RUN, WRAPPED WITHIN GEOGRID MATERIAL SUCH AS TENSOR BX1100, OR APPROVED EQUAL, AT THE DISCRETION OF THE SOILS ENGINEER.

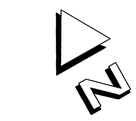


CATCH BASIN STENCILING

N.T.S.

NOTES:

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



INDEX MAP

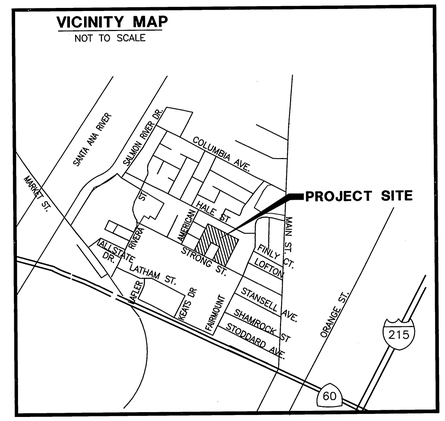
N.T.S.

CONSTRUCTION NOTES

No.	DESCRIPTION	QUANTITIES
1	CONSTRUCT 18" RCP STORM DRAIN (D-2000) PIPE BEDDING CASE 1 PER CITY OF RIVERSIDE STD. DWG. NO. 452	78.52 LF.
2	CONSTRUCT 15" RCP STORM DRAIN (D-2000) PIPE BEDDING CASE 1 PER CITY OF RIVERSIDE STD. DWG. NO. 452	44.42 LF.
3	CONSTRUCT CATCH BASIN TYPE 1, PER CITY OF RIVERSIDE STD. DWG. NO. 405.	2 EA.
4	SAWCUT, REMOVE & REPLACE EXISTING CONCRETE SLOPE, JOINING WITH 15" OR 18" RCP PER RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT JUNCTION STRUCTURE NO. 6 STANDARD DRAWING NO. JS 231 (SEE DETAIL THIS SHEET)	L.S.
5	CONSTRUCT CONCRETE SPILLWAY PER DETAILS ON SHEET 2. ROUGH FINISH ALL EXPOSED SURFACES.	

VICINITY MAP

NOT TO SCALE



RIVERSIDE CITY BUSINESS TAX CERTIFICATE # 75296 EXP. 6/10/06 | PW05-0544

Underground Service Alert
Call: TOLL FREE 1-800-227-2600 DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

Prepared Under The Supervision Of:
Vincent Kleppe
Date: 1/31/06
VINCENT G. KLEPPE
REGISTERED CIVIL ENGINEER NO. 55750
REGISTRATION EXPIRES: 12/31/06

REGISTERED PROFESSIONAL ENGINEER VINCENT G. KLEPPE No. 55750 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

THE PRIZM GROUP
310 N. COTA ST. SUITE I, CORONA, CA 92880
PHONE: (951) 737-4406 • FAX: (951) 737-4407 • tpg@the-prizm-group.com
• CYRAX 3-D LASER SCANNING
• GPS & ROBOTIC SURVEYING
• GEOMATIC ENGINEERING
• CIVIL ENGINEERING
• LAND PLANNING

Bench Mark: GPS-51
ELEV.=813.66
(SEE THIS SHEET)

Scale: N.T.S.
Date: 1-31-06

CEDAR PARK

REVISIONS:

REMARK	DESCRIPTION:	APR.:	DATE:

DESIGNED: VGK | DRAWN: BM | CHECKED: VGK

CITY OF RIVERSIDE WATER DEPT (ALL SHEETS) MW MM 2/7/06
APPROVED BY

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

Approved By:	BY:	Date:
PRINCIPAL ENG.	PH	2/17/06
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—

APPROVED BY
CITY ENGINEER
DATE 2/21/06

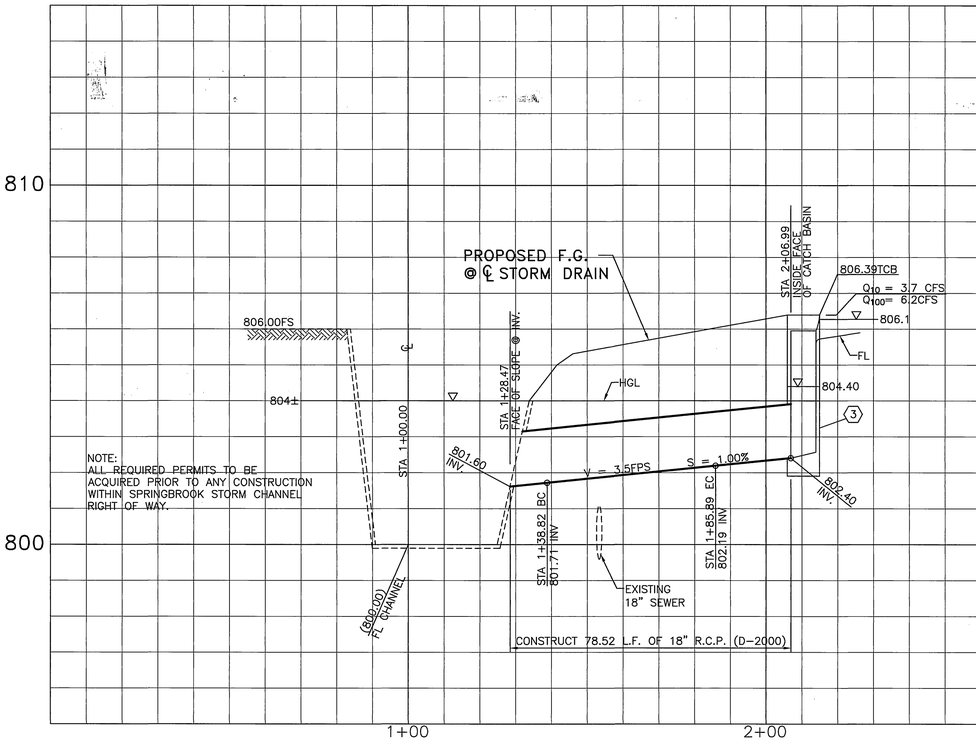
TRACT 32293
PRIVATE STORM DRAIN IMPROVEMENT PLANS-TITLE SHEET
CEDAR PARK

D-784
Sheet 1 OF 2 SHEETS
FILE NO. 04-015.1

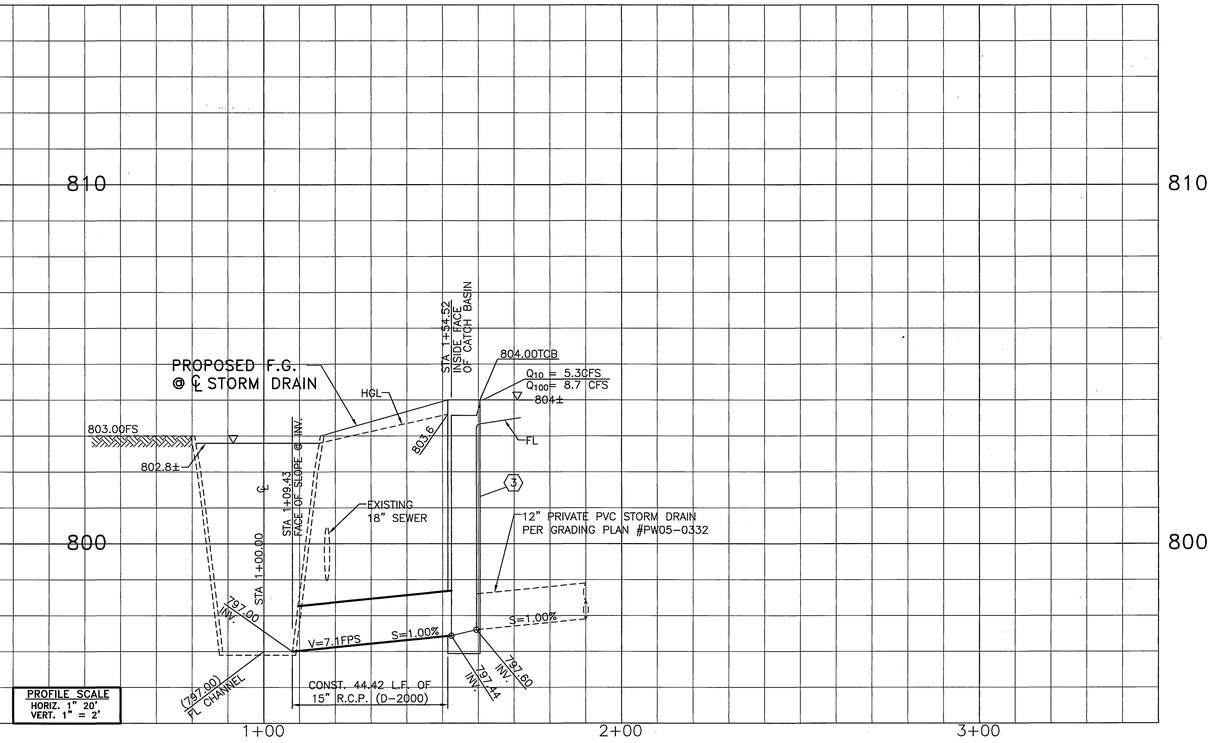
File name: P:\TPG\04\04-0151\SD\04-0151SD01.dwg

BZ

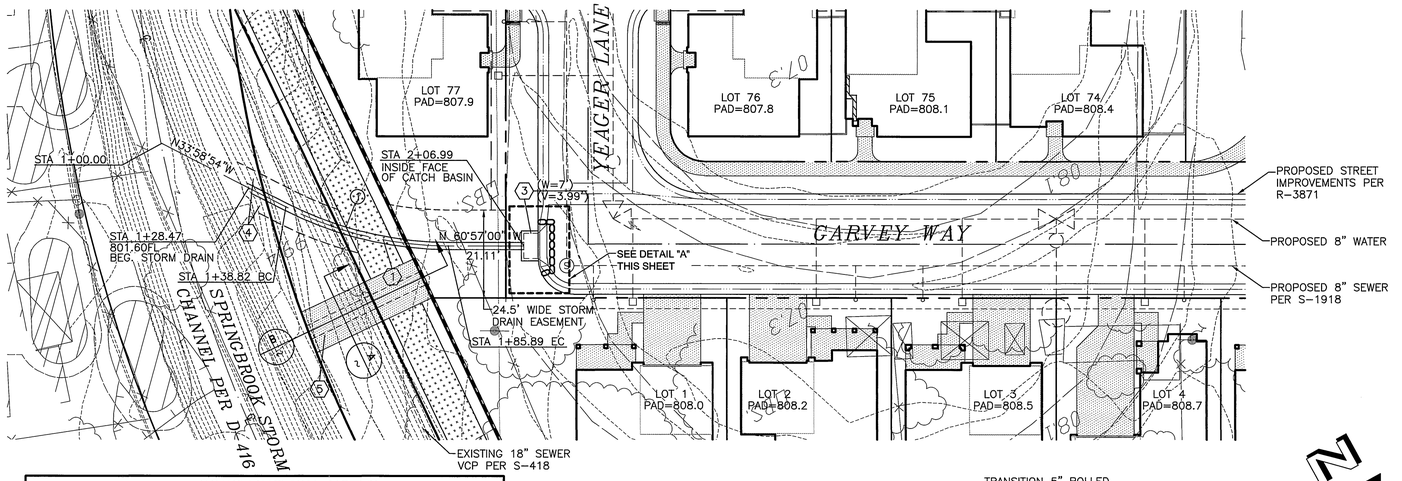
INDEXED 2-23-06 GH

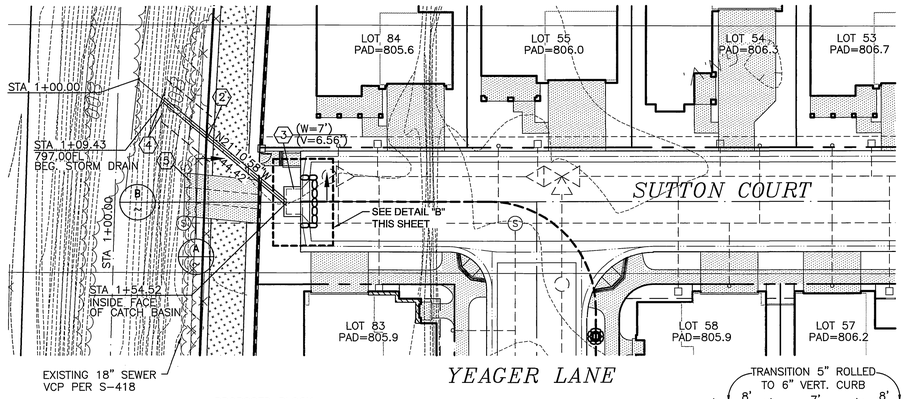


NOTE:
ALL REQUIRED PERMITS TO BE ACQUIRED PRIOR TO ANY CONSTRUCTION WITHIN SPRINGBROOK STORM CHANNEL RIGHT OF WAY.



PROFILE SCALE
HORIZ. 1" 20'
VERT. 1" = 2'





CONSTRUCTION NOTES

No.	DESCRIPTION
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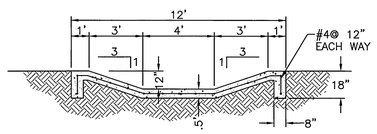
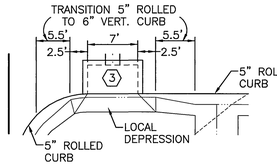
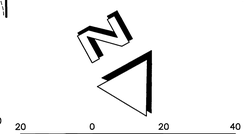


A SECONDARY OVERFLOW SPILLWAY
N.T.S.

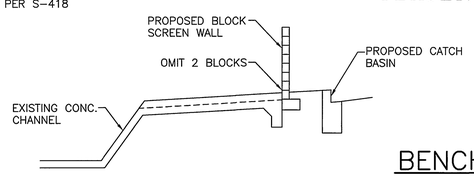


DETAIL "A"
N.T.S.

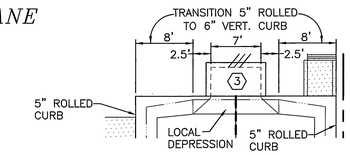


CURVE TABLE

NUMBER	DELTA ANGLE	RADIUS	ARC LENGTH
1	26°58'06"	100.00'	47.07'



B SECONDARY OVERFLOW SPILLWAY
N.T.S.



DETAIL "B"
N.T.S.

BENCHMARK

CITY OF RIVERSIDE BENCH MARK GPS-51: 2 1/2" BRASS DISK STAMPED "CITY OF RIVERSIDE GPS STATION 51 1991 CADME" SET IN THE TOP OF A CATCH BASIN ALONG THE NORTHERLY CURB OF COLUMBIA AVENUE, 4 FEET EAST OF THE BCR OF THE NORTHEAST OF MAIN STREET AT COLUMBIA AVENUE. ELEV.=813.66

RIVERSIDE CITY BUSINESS TAX CERTIFICATE # 75296 EXP. 6/10/06

PW 05-0544

Underground Service Alert
Call: TOLL FREE
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TWO WORKING DAYS BEFORE YOU DIG
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

Prepared Under The Supervision Of:
Vincent Kleppe
Date: 1/31/06
VINCENT G. KLEPPE
REGISTERED CIVIL ENGINEER NO. 55750
REGISTRATION EXPIRES: 12/31/06

REG. NO. 55750 REGISTERED PROFESSIONAL ENGINEER VINCENT G. KLEPPE No. 55750 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

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PHONE: (951) 737-4406 • FAX: (951) 737-4407 • tpg@the-prizm-group.com

Bench Mark:
GPS-51
ELEV.=813.66
(SEE THIS SHEET)

Scale:
1" = 20'

Date:
1-31-06

REVISIONS:

REMARK	DESCRIPTION:	APR.:	DATE:

DESIGNED: VGK | DRAWN: BM | CHECKED: VGK

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

Approved By:	BY:	Date:
PRINCIPAL ENG.	PH	2/17/06
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—

APPROVED BY
CITY ENGINEER
DATE 2/22/06

TRACT 32293
PRIVATE STORM DRAIN IMPROVEMENT PLANS GARVEY WAY & SUTTON COURT

D-784
Sheet 2 OF 2 SHEETS
FILE NO. 04-015.1

File name: P:\TPG\04\04-0151\SD\04-0151SD01.dwg

RVZ

INDEXED 2-23-06 GH