STORM DRAIN PLANS FOR:

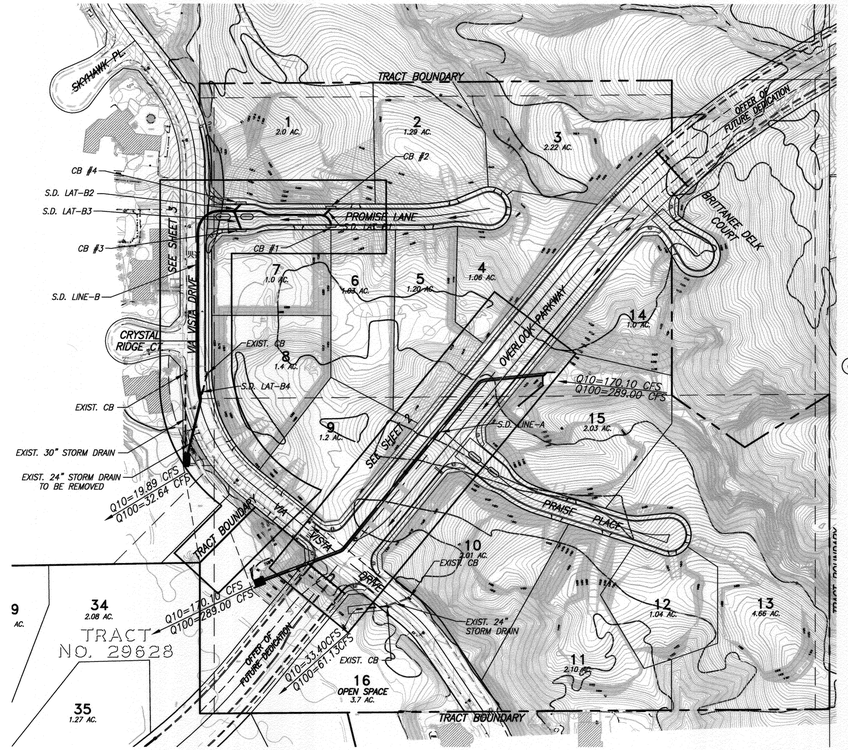
TRACT No. 32270

RIVERSIDE, CA.

CONSTRUCTION NOTES AND QUANTITY ESTIMATE

THE QUANTITIES SHOWN BELOW ARE FOR BONDING INFORMATION ONLY. THE CONTRACTOR IS TO CONSTRUCT PROJECT PER THESE PLANS AND SUBMIT CONSTRUCTION BID BASED ON THEIR OWN QUANTITY "TAKE-OFF".

1	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG 407	4	EA
2	INSTALL 60" R.C.P.-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452	769	LF
3	INSTALL 36" R.C.P.-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452	800	LF
4	INSTALL 24" R.C.P.-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452	326	LF
5	INSTALL TRASH RACK (INCLINED) AT INLET PER APWA STD DWG 361-0 SEE DETAIL ON HEREON	1	EA
6	INSTALL RIP-RAP PER DETAIL SHOWN HEREON	41	LF
7	INSTALL JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG NO. 421	1	EA
8	CONSTRUCT PIPE HEADWALL, ENDWALL AND WINGWALLS PER DETAIL SHOWN ON HEREON	3	EA
9	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424	4	EA
10	CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432	1	EA
11	CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430	2	EA
12	CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422	1	EA
14	CONSTRUCT JUNCTION STRUCTURE NO. 4 PER CITY OF RIVERSIDE STD. DWG. NO. 423	2	EA
15	INSTALL 12" R.C.P.-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452	17	LF

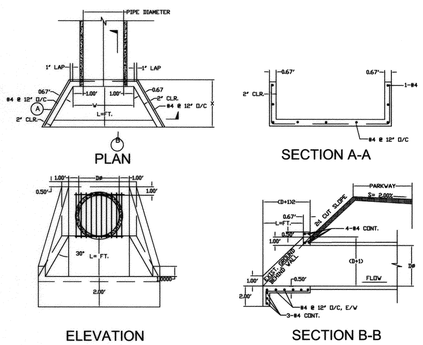


100 0 100 200 300

Scale 1" = 150'

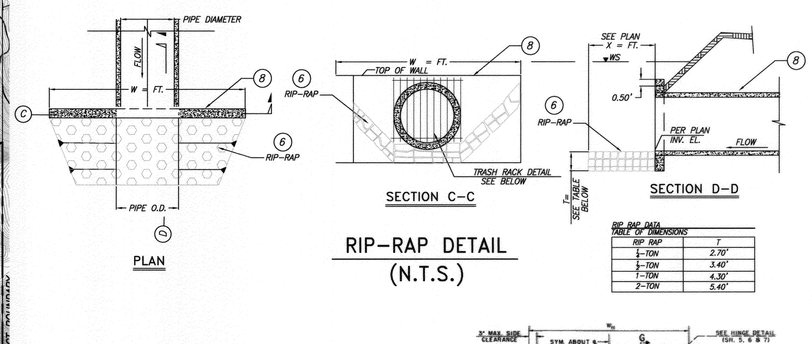
STORM DRAIN CONSTRUCTION GENERAL NOTES

1. 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.
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 ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
7. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE PROJECT.
8. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
9. 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.
10. BEFORE THE RIP- RAP AT THE OUTLET OF ANY DRAINAGE STRUCTURE IS ACCEPTED BY THE CITY, IT SHALL BE TESTED UNDER FLOW AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANT IN THE IMMEDIATE AREA.



WING-TYPE HEADWALL

(N.T.S.)



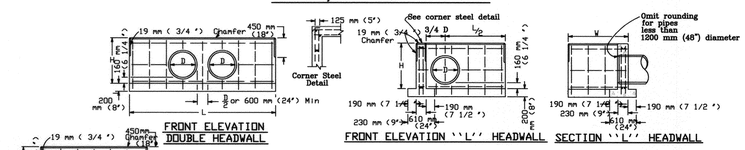
RIP-RAP DETAIL

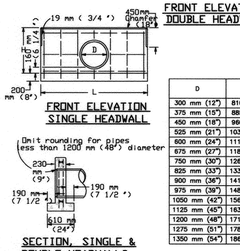
(N.T.S.)

RIP RAP DATA TABLE OF DIMENSIONS

RIP RAP	T
½-TON	2.70'
¾-TON	3.40'
1-TON	4.30'
2-TON	5.40'

INLET/OUTLET DETAIL





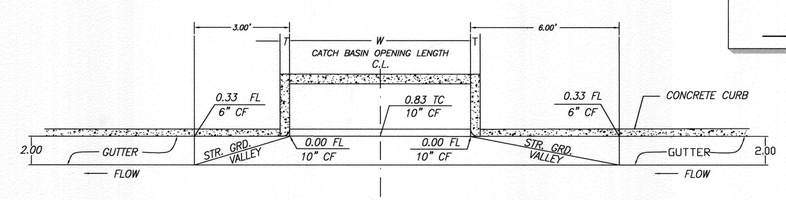
STRAIGHT HEADWALLS

D	H	SINGLE L	SINGLE STEEL	SINGLE CONC	DOUBLE L	DOUBLE STEEL	DOUBLE CONC
300 mm (12")	810 mm (32")	1500 mm (5.0')	16 kg (35 lb)	0.45 m³ (0.60 CY)	2500 mm (8.0')	24 kg (50 lb)	0.74 m³ (0.94 CY)
375 mm (15")	885 mm (35")	1800 mm (6.0')	18 kg (40 lb)	0.56 m³ (0.75 CY)	2950 mm (9.5')	28 kg (60 lb)	0.91 m³ (1.17 CY)
450 mm (18")	960 mm (38")	2100 mm (7.0')	22 kg (50 lb)	0.68 m³ (0.91 CY)	3250 mm (10.5')	34 kg (75 lb)	1.04 m³ (1.35 CY)
525 mm (21")	1035 mm (41")	2250 mm (7.5')	26 kg (60 lb)	0.76 m³ (1.02 CY)	3550 mm (11.5')	40 kg (90 lb)	1.18 m³ (1.52 CY)
600 mm (24")	1110 mm (44")	2550 mm (8.5')	34 kg (75 lb)	0.90 m³ (1.20 CY)	3850 mm (12.5')	46 kg (100 lb)	1.32 m³ (1.72 CY)
675 mm (27")	1185 mm (47")	2850 mm (9.5')	38 kg (85 lb)	1.04 m³ (1.39 CY)	4300 mm (14.0')	52 kg (115 lb)	1.53 m³ (2.00 CY)
750 mm (30")	1260 mm (50")	3000 mm (10.0')	40 kg (85 lb)	1.13 m³ (1.52 CY)	4600 mm (15.0')	54 kg (128 lb)	1.69 m³ (2.21 CY)
825 mm (33")	1335 mm (53")	3300 mm (11.0')	44 kg (100 lb)	1.29 m³ (1.73 CY)	4900 mm (16.0')	58 kg (130 lb)	1.86 m³ (2.42 CY)
900 mm (36")	1410 mm (56")	3600 mm (12.0')	46 kg (105 lb)	1.46 m³ (1.95 CY)	5200 mm (17.0')	66 kg (145 lb)	2.03 m³ (2.65 CY)
975 mm (39")	1485 mm (59")	3750 mm (12.5')	58 kg (130 lb)	1.57 m³ (2.09 CY)	5500 mm (18.0')	78 kg (170 lb)	2.21 m³ (2.88 CY)
1050 mm (42")	1560 mm (62")	4050 mm (13.5')	62 kg (140 lb)	1.75 m³ (2.34 CY)	5800 mm (19.0')	84 kg (185 lb)	2.39 m³ (3.13 CY)
1125 mm (45")	1635 mm (65")	4350 mm (14.5')	66 kg (155 lb)	1.94 m³ (2.60 CY)	6100 mm (20.0')	88 kg (195 lb)	2.58 m³ (3.38 CY)
1200 mm (48")	1710 mm (68")	4500 mm (15.0')	70 kg (160 lb)	2.06 m³ (2.75 CY)	6400 mm (21.0')	90 kg (200 lb)	2.78 m³ (3.64 CY)
1275 mm (51")	1785 mm (71")	4800 mm (16.0')	80 kg (180 lb)	2.26 m³ (3.03 CY)	6850 mm (22.5')	102 kg (225 lb)	3.06 m³ (4.02 CY)
1350 mm (54")	1860 mm (74")	5100 mm (17.0')	84 kg (190 lb)	2.47 m³ (3.31 CY)	7150 mm (23.5')	108 kg (240 lb)	3.27 m³ (4.30 CY)

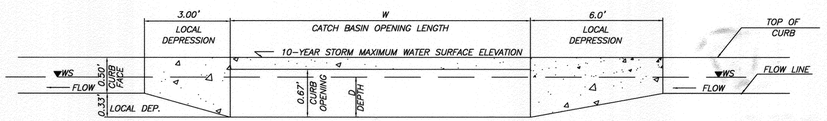
"L" HEADWALLS

CIRCULAR PIPE CULVERT HEADWALLS

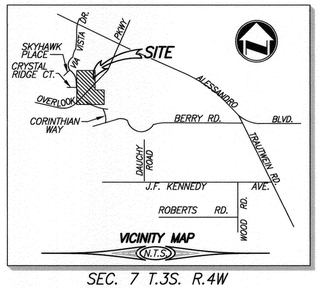
D	H	L/2	1000 mm (40") STEEL	1000 mm (40") CONC	1450 mm (58") STEEL	1450 mm (58") CONC	1900 mm (76") STEEL	1900 mm (76") CONC	2350 mm (94") STEEL	2350 mm (94") CONC	2800 mm (112") STEEL	2800 mm (112") CONC
			LENGTH OF W									
300 mm (12")	810 mm (32")	750 mm (30")	22 kg (50 lb)	0.59 m³ (0.79 CY)	26 kg (60 lb)	0.73 m³ (0.98 CY)	----	----	----	----	----	----
375 mm (15")	885 mm (35")	900 mm (36")	24 kg (55 lb)	0.68 m³ (0.91 CY)	28 kg (65 lb)	0.83 m³ (1.11 CY)	----	----	----	----	----	----
450 mm (18")	960 mm (38")	1050 mm (42")	28 kg (65 lb)	0.78 m³ (1.04 CY)	32 kg (75 lb)	0.94 m³ (1.25 CY)	----	----	----	----	----	----
525 mm (21")	1035 mm (41")	1125 mm (45")	32 kg (75 lb)	0.86 m³ (1.15 CY)	40 kg (90 lb)	1.02 m³ (1.36 CY)	----	----	----	----	----	----
600 mm (24")	1110 mm (44")	1275 mm (51")	38 kg (85 lb)	0.96 m³ (1.29 CY)	44 kg (100 lb)	1.13 m³ (1.51 CY)	48 kg (110lb)	1.30 m³ (1.74 CY)	----	----	----	----
675 mm (27")	1185 mm (47")	1425 mm (57")	40 kg (90 lb)	1.07 m³ (1.44 CY)	46 kg (105 lb)	1.25 m³ (1.67 CY)	50 kg (115 lb)	1.43 m³ (1.91 CY)	----	----	----	----
750 mm (30")	1260 mm (50")	1500 mm (60")	42 kg (95 lb)	1.16 m³ (1.55 CY)	48 kg (110 lb)	1.34 m³ (1.80 CY)	52 kg (120 lb)	1.53 m³ (2.05 CY)	60 kg (135 lb)	1.72 m³ (2.29 CY)	----	----
825 mm (33")	1335 mm (53")	1650 mm (66")	46 kg (105 lb)	1.28 m³ (1.71 CY)	52 kg (120 lb)	1.47 m³ (1.97 CY)	60 kg (135 lb)	1.67 m³ (2.23 CY)	66 kg (150 lb)	1.86 m³ (2.48 CY)	----	----
900 mm (36")	1410 mm (56")	1800 mm (72")	48 kg (110 lb)	1.40 m³ (1.88 CY)	54 kg (125 lb)	1.61 m³ (2.15 CY)	62 kg (140 lb)	1.81 m³ (2.41 CY)	68 kg (155 lb)	2.01 m³ (2.68 CY)	74 kg (170 lb)	2.21 m³ (2.95 CY)
975 mm (39")	1485 mm (59")	1875 mm (75")	----	----	66 kg (150 lb)	1.71 m³ (2.28 CY)	74 kg (170 lb)	1.92 m³ (2.56 CY)	80 kg (185 lb)	2.13 m³ (2.84 CY)	88 kg (200 lb)	2.33 m³ (3.12 CY)
1050 mm (42")	1560 mm (62")	2025 mm (81")	----	----	68 kg (155 lb)	1.85 m³ (2.42 CY)	76 kg (175 lb)	2.07 m³ (2.76 CY)	84 kg (190 lb)	2.28 m³ (3.05 CY)	92 kg (210 lb)	2.50 m³ (3.34 CY)
1125 mm (45")	1635 mm (65")	2175 mm (87")	----	----	----	----	78 kg (180 lb)	2.22 m³ (2.97 CY)	88 kg (200 lb)	2.45 m³ (3.27 CY)	94 kg (215 lb)	2.67 m³ (3.57 CY)
1200 mm (48")	1710 mm (68")	2250 mm (90")	----	----	----	----	84 kg (190 lb)	2.34 m³ (3.13 CY)	94 kg (216 lb)	2.57 m³ (3.44 CY)	100 kg (230 lb)	2.81 m³ (3.75 CY)
1275 mm (51")	1785 mm (71")	2400 mm (96")	----	----	----	----	----	----	98 kg (220 lb)	2.75 m³ (3.67 CY)	102 kg (235 lb)	2.98 m³ (3.99 CY)
1350 mm (54")	1860 mm (74")	2550 mm (102")	----	----	----	----	----	----	102 kg (235 lb)	2.92 m³ (3.91 CY)	110 kg (250 lb)	3.17 m³ (4.24 CY)



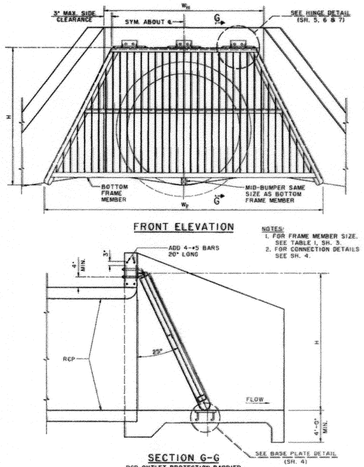
CATCH BASIN LOCAL DEPRESSION PLAN (FLOW-BY)



BASIN OPENING LONGITUDINAL SECTION (FLOW-BY)



SEC. 7 T.3S. R.4W



TRASH RACK (INCLINED) INLET

(N.T.S.)

WATER DEPARTMENT NOTE:

1. DEVELOPER TO GIVE THE CITY WATER DIVISION FIVE (5) WORKING DAYS WRITTEN NOTICE PRIOR TO START OF CONSTRUCTION AND TO ALLOW THE CITY TEN (10) WORKING DAYS FOR THE COMPLETION OF THE WORK.

INDEX

TITLE SHEET.....SHEET 1
STORM DRAIN PLANS.....SHEET 2-3

NOTES

1. No deduction made in quantities for thickness of pipe walls.
2. All reinforcing steel #13M (#4) bars. All vertical and horizontal tie bars 450 mm (18") maximum spacing.
3. Length of wall "W" may be varied to suit conditions encountered in the field, and straight line interpolation may be used to calculate quantities.
4. Quantities are for design purposes only.
5. Cable railing to be installed on top of headwall when shown on Project Plans. See Standard Plan B11-47 for cable railing details.

REGISTERED PROFESSIONAL ENGINEER CHARISSA J.K. LEACH NO. 53390 EXP. 6-30-09 CIVIL STATE OF CALIFORNIA

CITY OF RIVERSIDE WATER DEPT.
REVIEWED FOR CONFLICTS BY — DATE 6/16/08

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PIPE HEADWALLS

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

CITY OF RIVERSIDE BUSINESS TAX ACCT.#058833 EXP.1/1/09

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

PLANS PREPARED BY:
adkan ENGINEERS
Civil Engineering · Surveying · Planning
6820 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 Fax:(951) 688-0599
Under the Supervision of: Charissa Leach, R.C.E. 53390 Exp. 06.30.09 Date 6/8/08

BENCHMARK: F7 - K3
CITY OF RIVERSIDE REFERENCE LL47/7.
PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT ALONG THE SOUTHERLY CURB OF OVERLOOK PARKWAY 175 FEET EAST OF CHATEAU RIDGE DRIVE, TRANSFER FROM FT-C2 BY CITY SURVEY CREW 6/10/2002.
ELEVATION: 1426.960

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: RICK DRAWN BY: RICK CHECKED BY: C-

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		6/27/08	
CITY ENGINEER			
DATE 6/27/08			

STORM DRAIN PLAN
TRACT 32270
COVER SHEET

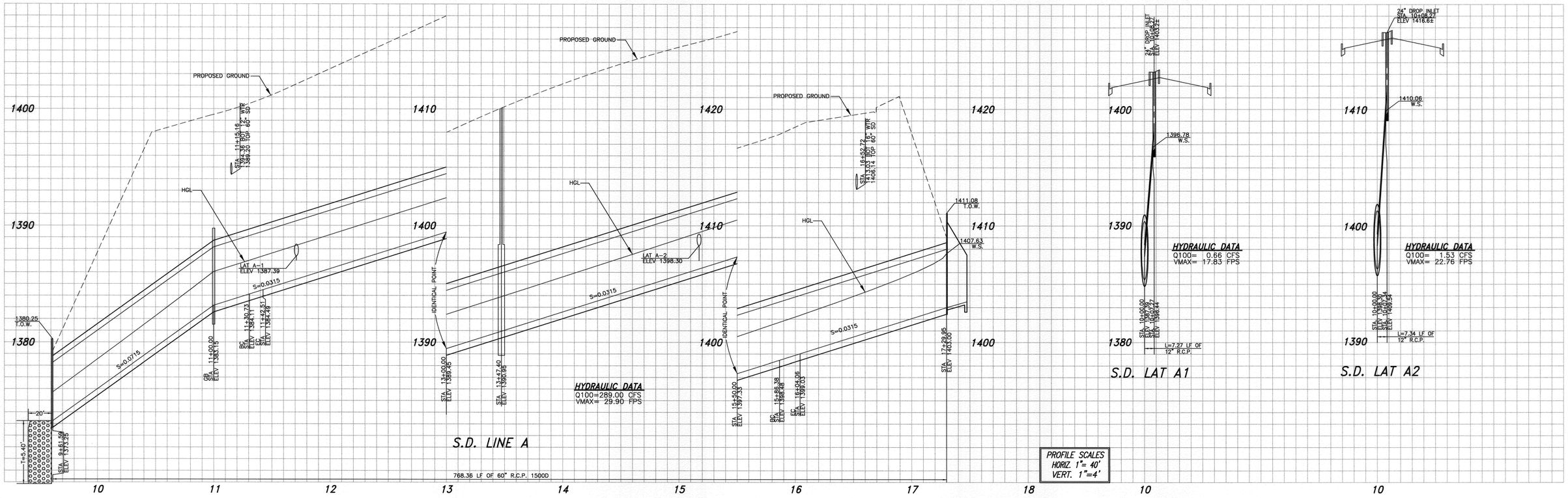
HORIZ. SCALE: VERT. SCALE:

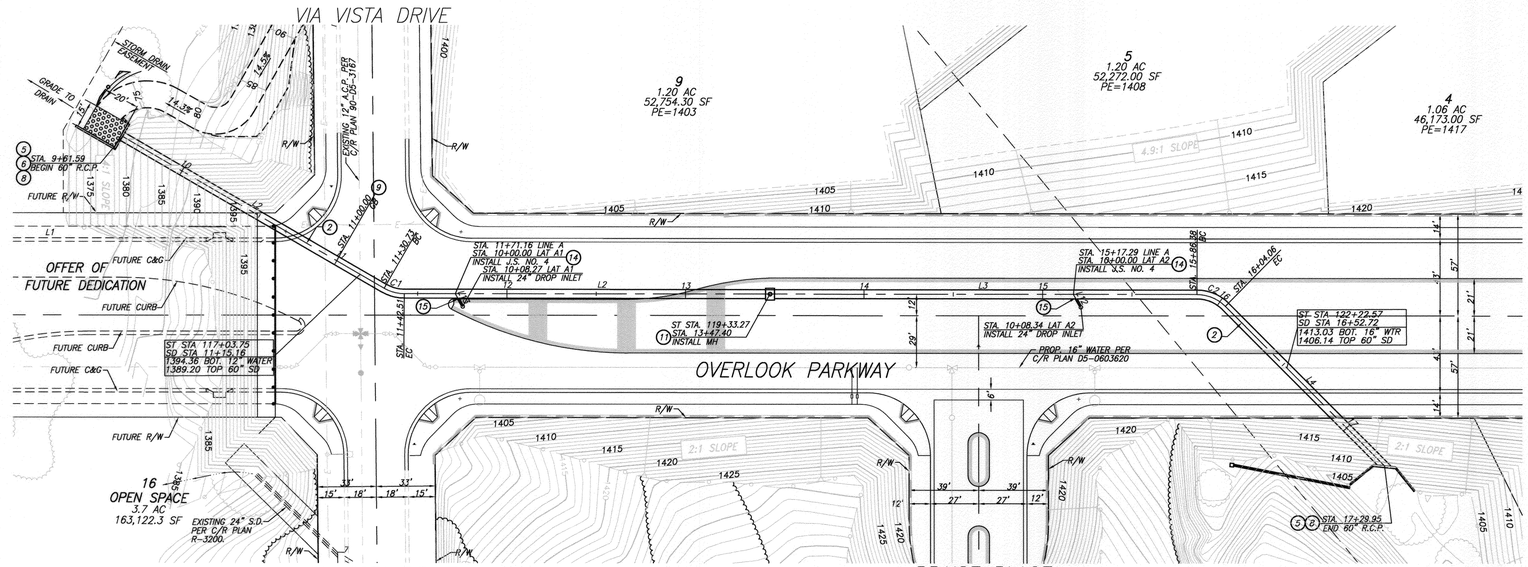
PW07-0021
ACCOUNT NO.
D-814
SHEET 1 OF 4
J.N. 6620

U:\Drawing\Bodewin\6620\dwg\Storm Drain\6620sd01.dwg

PLOT DATE: 6/5/2008 1:30 PM

INDEXED 9-08-08 KH





STORM DRAIN LINE-A

LINE TABLE		
LINE	LENGTH	BEARING
L1	169.14	N89°15'22"W
L2	204.89	N39°15'22"E
L3	238.98	N39°15'22"E
L4	125.89	N84°15'22"E
L12	7.34	N80°44'38"W
L13	7.27	N80°44'38"W

CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TAN.
C1	30°00'00"	22.50	11.78	6.03
C2	45°00'00"	22.50	17.67	9.32

CONSTRUCTION NOTES:

(2) INSTALL 60" R.C.P-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452

(5) INSTALL TRASH RACK (INCLINED) AT INLET PER APWA STD DWG 361-0 SEE DETAIL ON SHEET 1

(6) INSTALL RIP-RAP PER DETAIL SHOWN ON SHT. 1

(8) CONSTRUCT PIPE HEADWALL ENDWALL AND WINGWALLS PER DETAIL SHOWN ON SHEET 1

(9) CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424

(11) CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430

(14) CONSTRUCT JUNCTION STRUCTURE NO. 4 PER CITY OF RIVERSIDE STD. DWG. NO. 423

(15) INSTALL 12" R.C.P-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452

40 0 40 80 120

Scale 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
CHARLES J.A. LEACH
NO. 53390
EXP. 6-30-09
CIVIL
STATE OF CALIFORNIA

CITY OF RIVERSIDE BUSINESS TAX ACCT.#058833 EXP.1/1/09

CITY OF RIVERSIDE WATER DEPT.
REVIEWED FOR CONFLICTS BY 6/16/08 DATE

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

PLANS PREPARED BY:
adkan ENGINEERS
Civil Engineering · Surveying · Planning
6820 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 Fax:(951) 688-0599
Under the Supervision of: Charles Leach, R.C.E. 53390 Exp. 06.30.09 Date: 6/8/08

BENCHMARK: F7 - K3
CITY OF RIVERSIDE REFERENCE LL47/7.
PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT ALONG THE SOUTHERLY CURB OF OVERLOOK PARKWAY 175 FEET EAST OF CHATEAU RIDGE DRIVE. TRANSFER FROM F7-C2 BY CITY SURVEY CREW 6/10/2002.
ELEVATION: 1426.960

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: RICK DRAWN BY: RICK CHECKED BY: C-

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY	APPROVED BY
PRINCIPAL ENGINEER	6/27/08		
CITY ENGINEER			
DATE 6/27/08			

STORM DRAIN PLAN
TRACT 32270
OVERLOOK PARKWAY

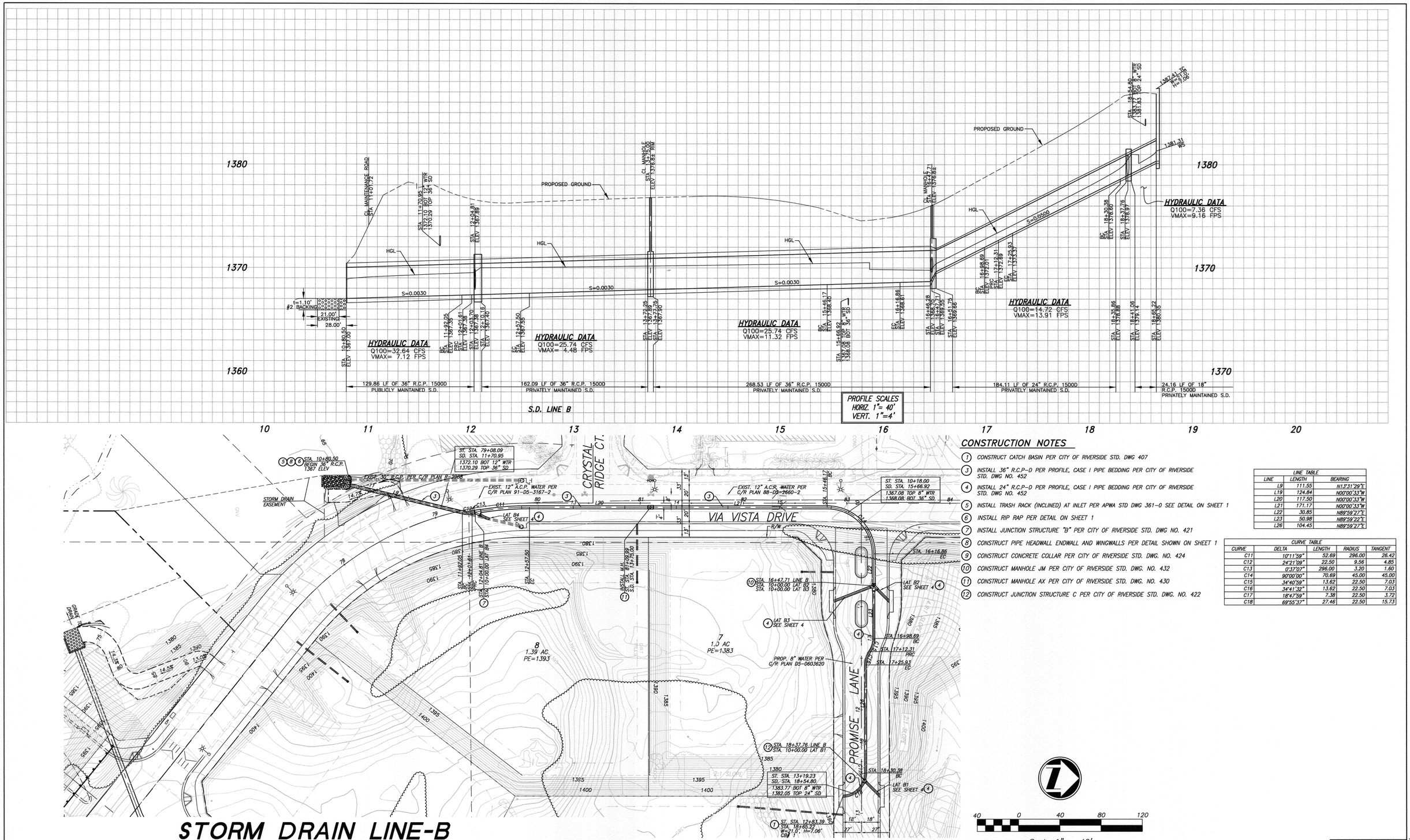
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 8'

PW07-0021
ACCOUNT NO.
D-814
SHEET 2 OF 4
J.N. 6620

U:\Drawing\Bodewin\6620\dwg\Storm Drain\6620sd02.dwg

PLOT DATE: 6/5/2008 1:32 PM

INDEXED 9-08-08 LH



STORM DRAIN LINE-B

CONSTRUCTION NOTES

1. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG 407
3. INSTALL 36" R.C.P-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452
4. INSTALL 24" R.C.P-D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452
5. INSTALL TRASH RACK (INCLINED) AT INLET PER APWA STD DWG 361-0 SEE DETAIL ON SHEET 1
6. INSTALL RIP RAP PER DETAIL ON SHEET 1
7. INSTALL JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG NO. 421
8. CONSTRUCT PIPE HEADWALL ENDWALL AND WINGWALLS PER DETAIL SHOWN ON SHEET 1
9. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424
10. CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432
11. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
12. CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422

LINE TABLE

LINE	LENGTH	BEARING
L9	111.55	N13°31'29"E
L19	124.84	N00°00'33"W
L20	117.50	N00°00'33"W
L21	171.17	N00°00'33"W
L22	30.85	N89°59'27"E
L23	50.98	N89°59'27"E
L26	104.45	N89°59'27"E

CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS	TANGENT
C11	10°11'59"	52.69	296.00	26.42
C12	24°21'09"	22.50	9.56	4.85
C13	0°37'07"	296.00	3.20	1.60
C14	90°00'00"	70.69	45.00	45.00
C15	34°40'59"	13.62	22.50	7.03
C16	34°41'32"	13.62	22.50	7.03
C17	18°47'59"	7.38	22.50	3.72
C18	69°55'37"	27.46	22.50	15.73

REGISTERED PROFESSIONAL ENGINEER CHARESSA J.A. LEACH NO. 53390 EXP. 6-30-09 CIVIL STATE OF CALIFORNIA

CITY OF RIVERSIDE WATER DEPT.
REVIEWED FOR CONFLICTS BY — DATE 6/16/08

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

CITY OF RIVERSIDE BUSINESS TAX ACCT.#058833 EXP.1/1/09

PLANS PREPARED BY:
adkan ENGINEERS
Civil Engineering · Surveying · Planning
6820 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 · Fax(951) 688-0599
Under the Supervision of: Charlesse Leach, R.C.E. 53390 Exp. 06.30.09 Date 6/18/08

BENCHMARK: F7 - K3
CITY OF RIVERSIDE REFERENCE LL47/7.
PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT ALONG THE SOUTHERLY CURB OF OVERLOOK PARKWAY 175 FEET EAST OF CHATEAU RIDGE DRIVE, TRANSFER FROM F7-C2 BY CITY SURVEY CREW 6/10/2002.
ELEVATION: 1426.960

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: RICK DRAWN BY: RICK CHECKED BY: C-

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	6/27/08	

APPROVED BY: [signature]
CITY ENGINEER
DATE 6/27/08

STORM DRAIN PLAN
TRACT 32270
PROMISE LANE

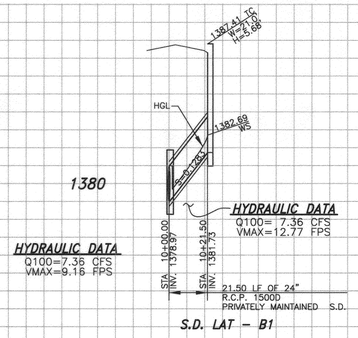
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PW07-0021
ACCOUNT NO.
D-814
SHEET 3 OF 4
J.N. 6620

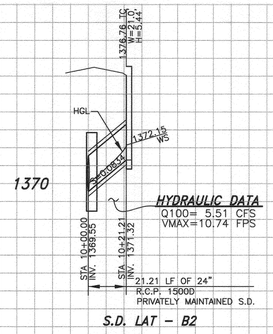
U:\Drawing\Bodewin\6620\dwg\Storm Drain\6620sd03ALT.dwg

PLOT DATE: 6/5/2008 1:32 PM

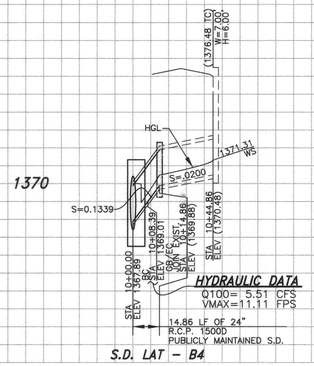
INDEXED 9-08-08 4H



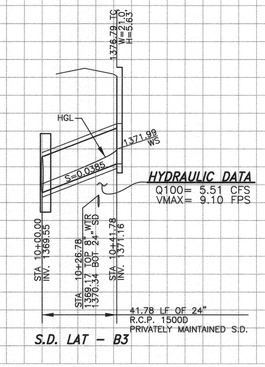
S.D. LAT – B1



S.D. LAT – B2

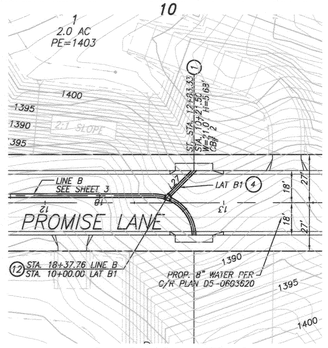


S.D. LAT – B4

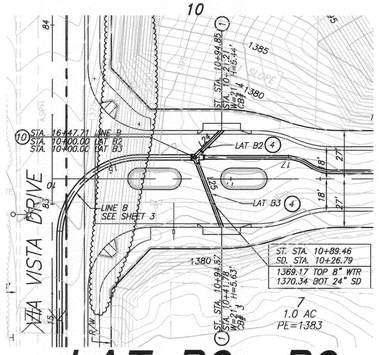


S.D. LAT – B3

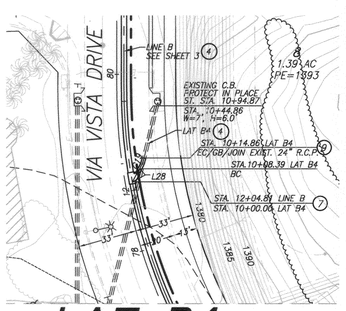
PROFILE SCALES
HORIZ. 1"= 40'
VERT. 1"=4'



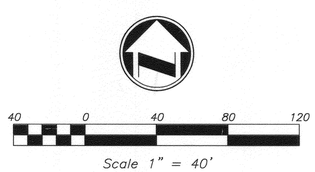
LAT B1



LAT B2 B3

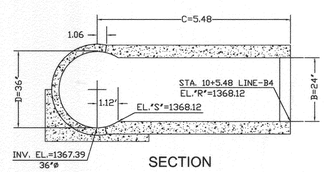


LAT B4

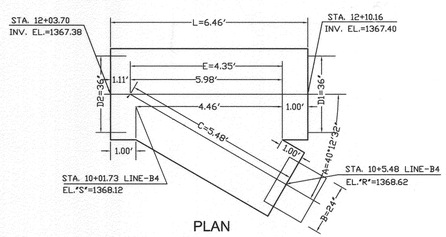


CONSTRUCTION NOTES

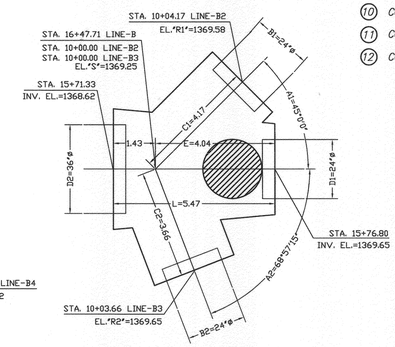
1. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG 407
3. INSTALL 36" R.C.P–D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452
4. INSTALL 24" R.C.P–D PER PROFILE, CASE I PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG NO. 452
5. INSTALL TRASH RACK (INCLINED) AT INLET PER APWA STD DWG 361–0 SEE DETAIL ON SHEET 1
6. INSTALL RIP RAP PER DETAIL ON SHEET 1
7. INSTALL JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG NO. 421
8. CONSTRUCT PIPE HEADWALL ENDWALL AND WINGWALLS PER DETAIL SHOWN ON SHEET 1
9. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424
10. CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432
11. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
12. CONSTRUCT JUNCTION STRUCTURE C PER CITY OF RIVERSIDE STD. DWG. NO. 422

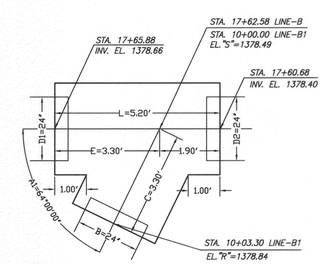


SECTION



PLAN





LINE TABLE		
LINE	LENGTH	BEARING
L24	21.21	N44°59'27"E
L25	41.79	N21°02'48"W
L27	21.50	N44°59'27"E
L28	8.39	N30°00'00"E

CURVE TABLE				
CURVE	DELTA	LENGTH	RADIUS	TANGENT
C19	16°28'31"	6.47	22.50	3.26

⑦ JUNCTION STRUCURE B: 36"x 36"x24"
(N.T.S.)

JUNCTION STRUCTURE STA 12+04.81 LINE B								
A	B	C	D_1	D_2	E	L	EL. "R"	EL. "S"
40°12'32"	24"	5.48'	36"	36"	4.35'	4.46'	1368.62	1368.12

⑩ MANHOLE NOS. 4– 36"x24"x24"x24"
(N.T.S.)

JUNCTION STRUCTURE STA 15+72.76 LINE B												
A_1	A_2	B_1	B_2	C_1	C_2	D_1	D_2	E	L	EL. "R_1"	EL. "R_2"	EL. "S"
45°	68°57'15"	24"	24"	4.17'	3.66'	24"	36"	4.04'	5.47'	1369.58	1369.65	1369.25

⑫ JUNCTION STRUCURE C: 24"x 24"
(N.T.S.)

JUNCTION STRUCTURE STA 17+62.58 LINE B								
A	B	C	D_1	D_2	E	L	EL. "R"	EL. "S"
64°	24"	3.30'	24"	24"	3.30'	5.20'	1378.84	1378.49

REGISTERED PROFESSIONAL ENGINEER
CHARISSA J.A. LEACH
NO. 53390
EXP. 6-30-09
CIVIL
STATE OF CALIFORNIA

CITY OF RIVERSIDE WATER DEPT.
REVIEWED FOR CONFLICTS BY — DATE 2/6/08

CITY OF RIVERSIDE BUSINESS TAX ACCT.#058833 EXP.1/1/08

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

PLANS PREPARED BY:
adkan ENGINEERS
Civil Engineering · Surveying · Planning
6820 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 Fax:(951) 688-0599
Under the Supervision of: Charissa Leach, R.C.E. 53390 Exp. 06.30.09 Date: 2/6/08

BENCHMARK: F7 – K3
CITY OF RIVERSIDE REFERENCE LL47/7.
PK NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT ALONG THE SOUTHERLY CURB OF OVERLOOK PARKWAY 175 FEET EAST OF CHATEAU RIDGE DRIVE, TRANSFER FROM F7–C2 BY CITY SURVEY CREW 6/10/2002.
ELEVATION: 1426.960

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: RICK DRAWN BY: RICK CHECKED BY: C–

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE
PRINCIPAL ENGINEER		2/14/08
CITY ENGINEER		2/13/08

STORM DRAIN PLAN
TRACT 32270
PROMISE LANE

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

PW07–0021
ACCOUNT NO.
D–814
SHEET 4 OF 4
J.N. 6620

U:\Drawing\Bodewin\6620\dwg\Storm Drain\6620sd04.dwg

PLOT DATE: 2/13/2008 1:53 PM

INDEXED 9-08-08 LH