IN THE CITY OF RIVERSIDE, CALIFORNIA

SEWER IMPROVEMENT PLANS

TRACT 32772-1

GENERAL NOTES

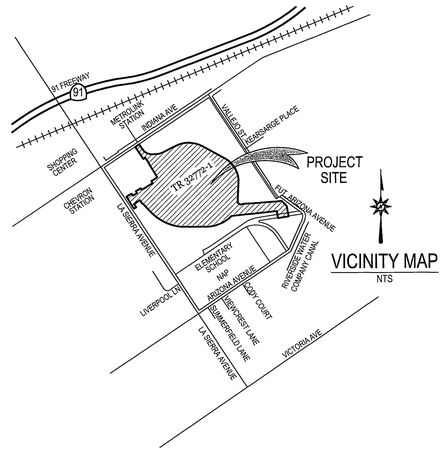
1. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
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 DEPT. OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
5. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
6. A PLUG SHALL BE INSTALLED AND WILL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY OF RIVERSIDE.
7. 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.
8. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
9. THE CONTRACTOR SHALL CALL IN A LOCATIONS 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.
10. 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.
11. NOTICE TO CONTRACTOR. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A 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 PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
15. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSING AND CONNECTIONS AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES AFFECTED. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE CONSTRUCTION BEGINS.
16. 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.
17. 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.

LEGEND

- PROPOSED 8" VCP SEWER MAIN
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER CLEAN-OUT
- EXISTING SEWER LINE
- EXISTING SEWER MANHOLE
- 4" BACKWATER VALVE
- SEWER LATERAL
- SHEET X — SHEET NUMBER
- TRACT BOUNDARY

INDEX MAP

SCALE 1"= 200'



CONSTRUCTION NOTES

		QNTY	UNITS
(1)	CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BEDDING CLASS I PER COR STD. DWG NO. 492	4,430	LF
(2)	CONSTRUCT 8" DRY VCP SEWER MAIN	2,225	LF
(3)	CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.	29	EA
(4)	CONSTRUCT 60" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.	1	EA
(5)	INSTALL TEMP. SEWER CLEAN-OUT PER CITY OF RIV. STD. DWG No. 560	4	EA
(6)	INSTALL TEMP. 8" END PLUG	16	EA
(7)	REMOVE 8" END PLUG AND JOIN	1	EA
(8)	CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A	2580	LF
(9)	INSTALL 4" BACKWATER VALVE	25	EA
(10)	INSTALL 48" DRY SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500. ALL RIMS TO BE PAVED OVER TO RESTRICT ACCESS.	5	EA

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW McLeod — APPROVED BY — 11/30/06 — DATE

WDID: 8 33C334294

Underground Service Alert
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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.

REGISTERED PROFESSIONAL ENGINEER — DAVID L. DRAKE — No. C 64193 Exp. 06-30-07 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/29/07

PLANS PREPARED BY:

P S O M A S

2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY -

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY: _____ CITY ENGINEER
DATE 12/18/06

BJZ

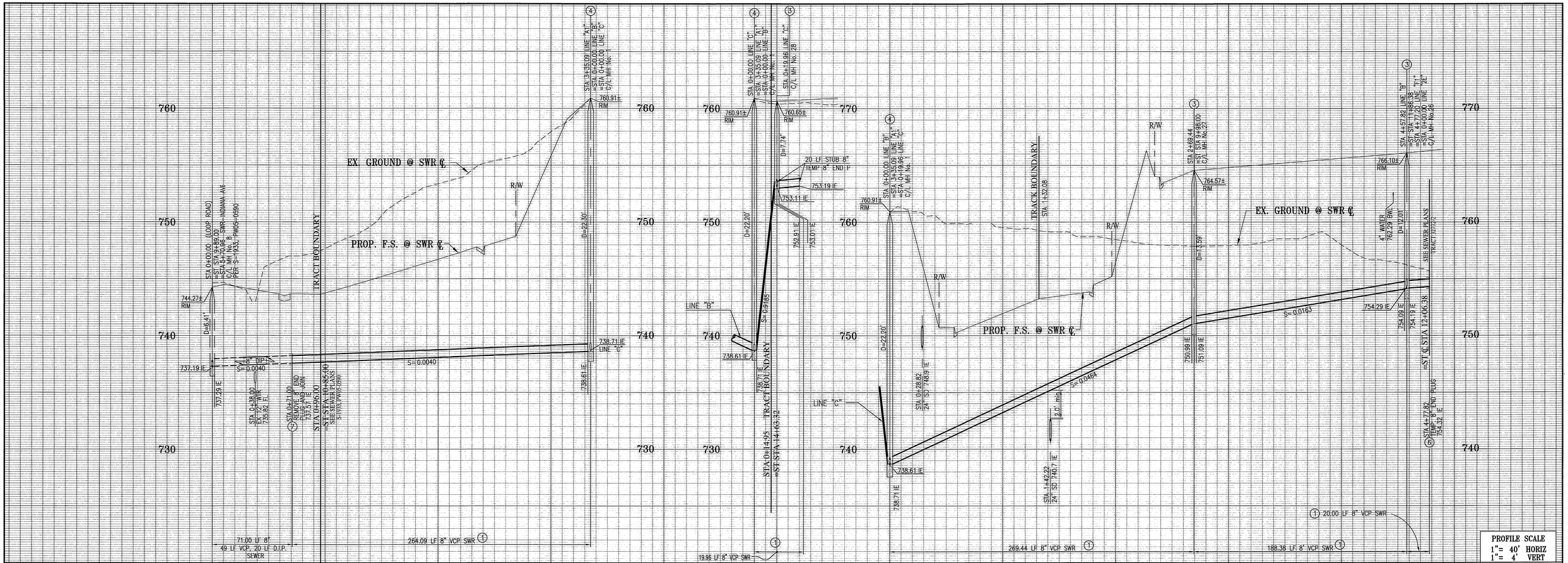
IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN

TITLE SHEET

FOR: GRIFFIN INDUSTRIES

PW06-0329
S-2002
SHEET 1 OF 10
FILE NO.: 1104-007

INDEXED 2-5-07 GH



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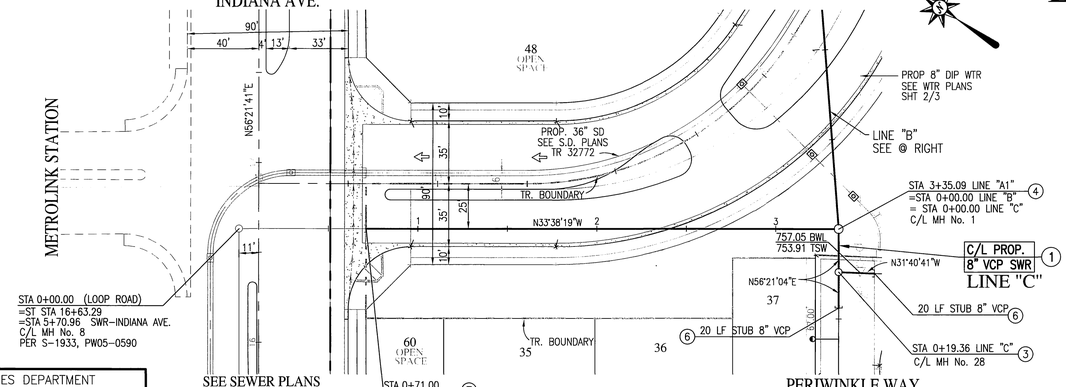

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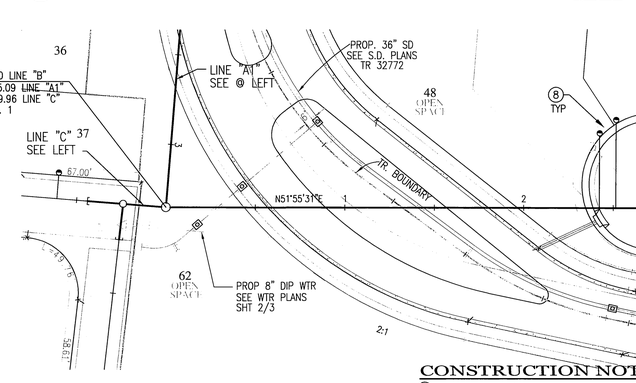

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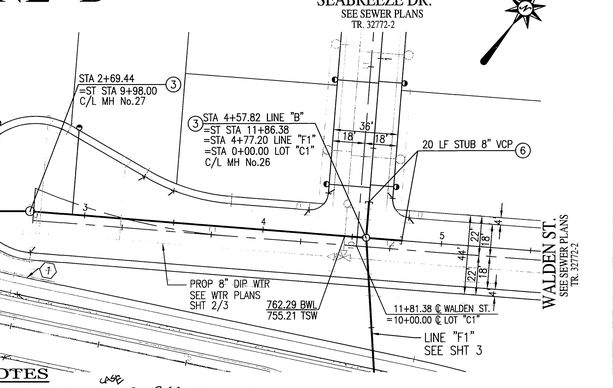

GRANDE VISTA PARKWAY

CONSTRUCTION NOTES

(1) CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BEDDING 1 PER LOR STD. DWG NO. 452
(3) CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(4) CONSTRUCT 60" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(6) INSTALL TEMP. 8" END PLUG
(7) REMOVE 8" END PLUG AND JOIN
(8) CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MCH 11/30/06
APPROVED BY DATE

Underground Service Alert
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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 CITY AND 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.

REGISTERED PROFESSIONAL ENGINEER
DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/29/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787–8421 Fax (951) 682–3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4–07–07

SCALE: AS SHOWN
DATE: FEBRUARY 2006
BENCH MARK: E2–P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

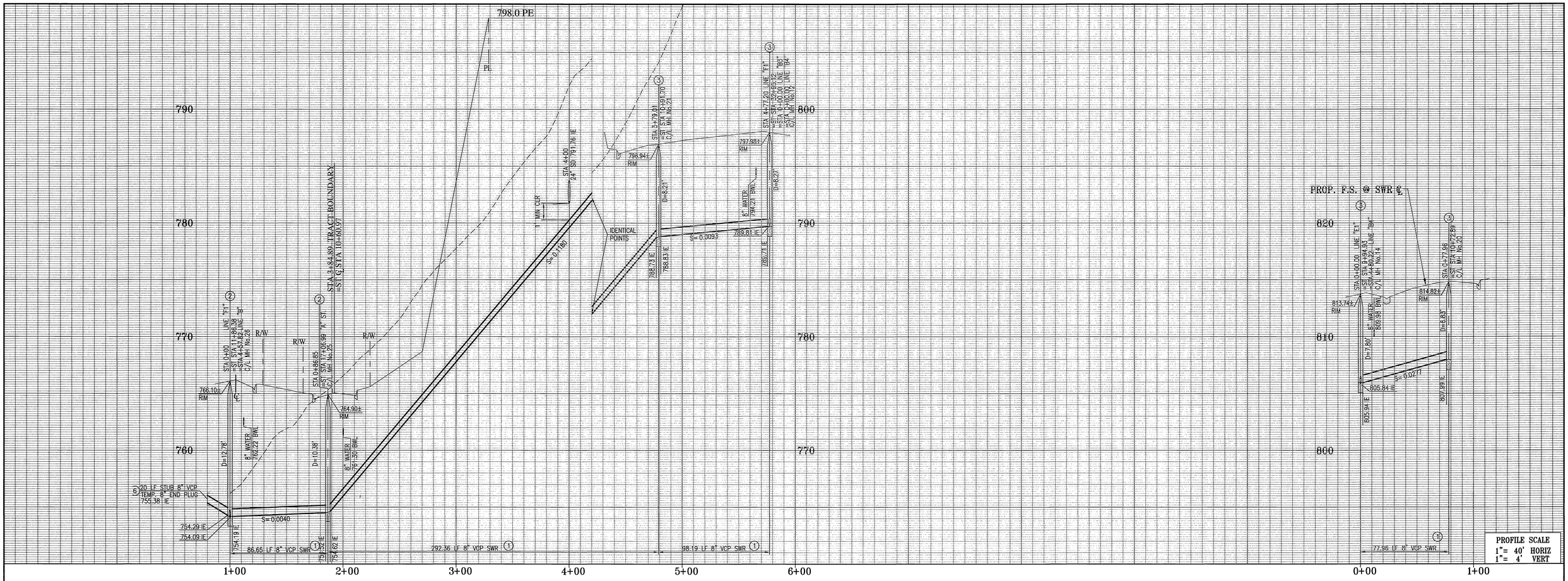
APPROVED BY:
CITY ENGINEER
DATE 12/15/06

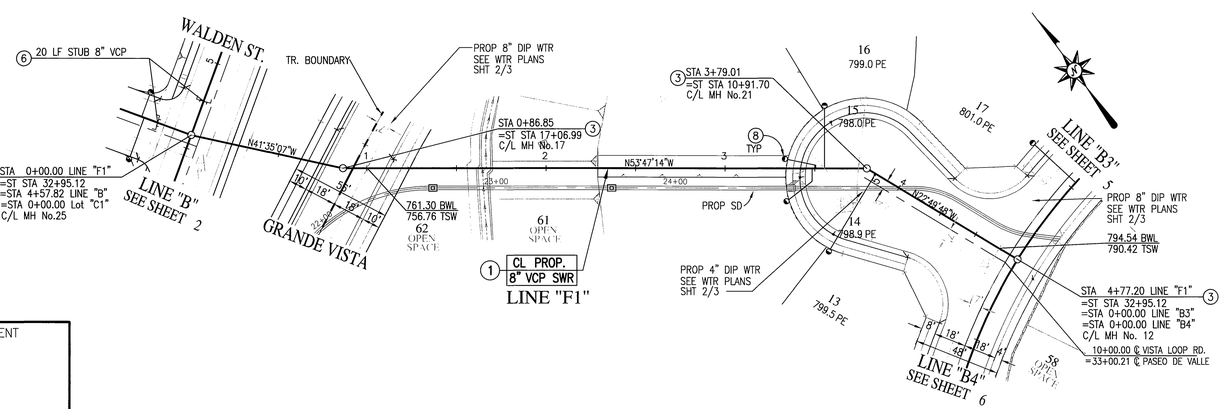
IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "A1" STA 0+71.00 TO STA 3+35.09
LINE "C" STA 0+00.00 TO STA 0+19.96
LINE "B" STA 0+00.00 TO STA 4+57.82

FOR: GRIFFIN INDUSTRIES

PW06–0329
S–2002
SHEET 2 OF 10
FILE NO.: 1104–007

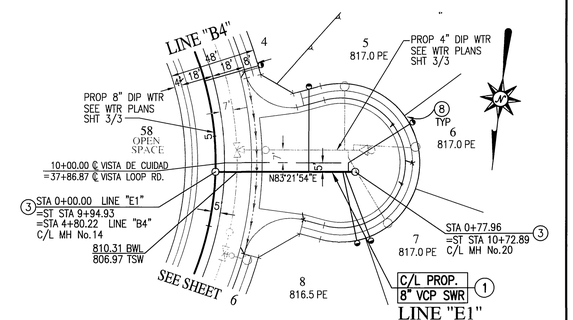
INDEXED 2-05-07 GH





LINE "F1"

PASEO DE VALLE



LINE "E1"

VISTA DE CUIDAD

CONSTRUCTION NOTES

(1) CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BEDDING CASE 1 PER COR STD. DWG. NO. 462
(3) CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(4) CONSTRUCT 60" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(6) INSTALL TEMP. 8" END PLUG
(8) CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MCLeod 11/30/06
APPROVED BY DATE

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER
DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/22/06

PLANS PREPARED BY:

PSOMAS

2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE. AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY:
CITY ENGINEER
DATE 12/18/06

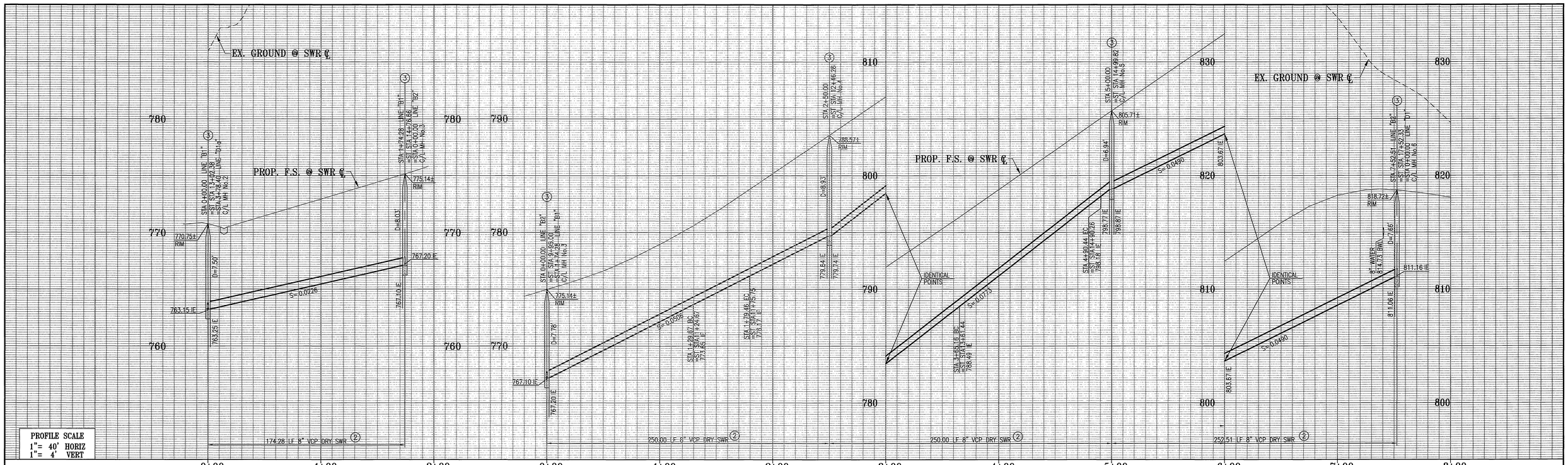
IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN

LINE "F1" STA 00+00.00 TO STA 4+77.20
LINE "E1" STA 00+00.00 TO STA 0+77.96

FOR: GRIFFIN INDUSTRIES

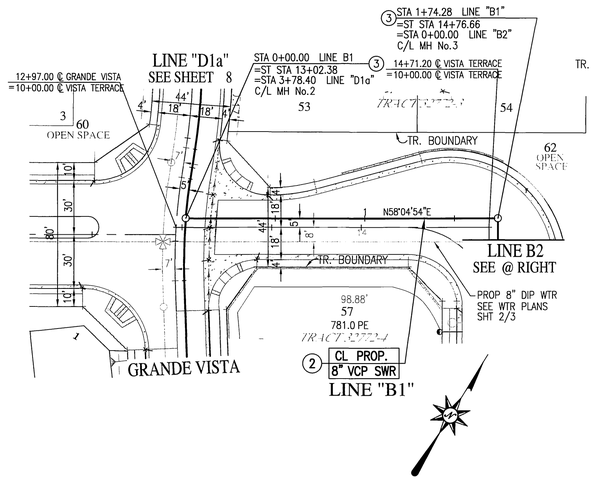
PW06-0329
S-2002
SHEET 3 OF 10
FILE NO.: 1104-007

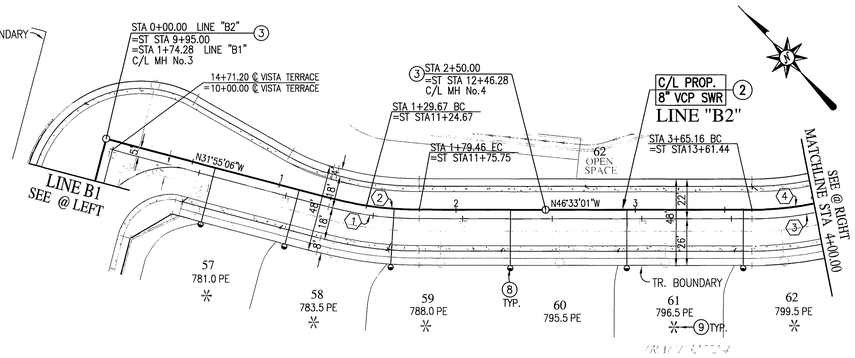
INDEXED 2-5-07 GH

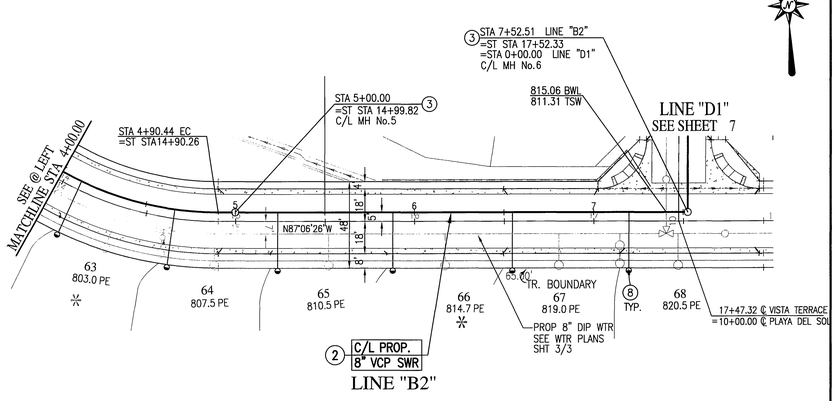


LINE "B1"

LINE "B2"







VISTA TERRACE

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
1	14°38'06"	200.00'	51.09'	25.68'
2	14°38'07"	195.00'	49.81'	25.04'
3	40°33'14"	182.00'	128.82'	67.24'
4	40°33'14"	177.00'	125.28'	65.39'

CONSTRUCTION NOTES

(2) CONSTRUCT 8" DRY VCP SEWER MAIN W/PIPE BEDDING CASE 3 PER COR. STD. DWG. NO. 452
(3) CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(8) CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A
(9) INSTALL 4" BACKWATER VALVE

40 20 0 40 80 120
SCALE 1"= 40'

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

APPROVED BY — DATE 11/30/06

WDID: 8 33C334294

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER — DAVID L. DRAKE — No. C 64193, Exp. 06-30-07 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE: 06-30-07 DATE: 11/28/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787–8421 Fax (951) 682–3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4–07–07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2–P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

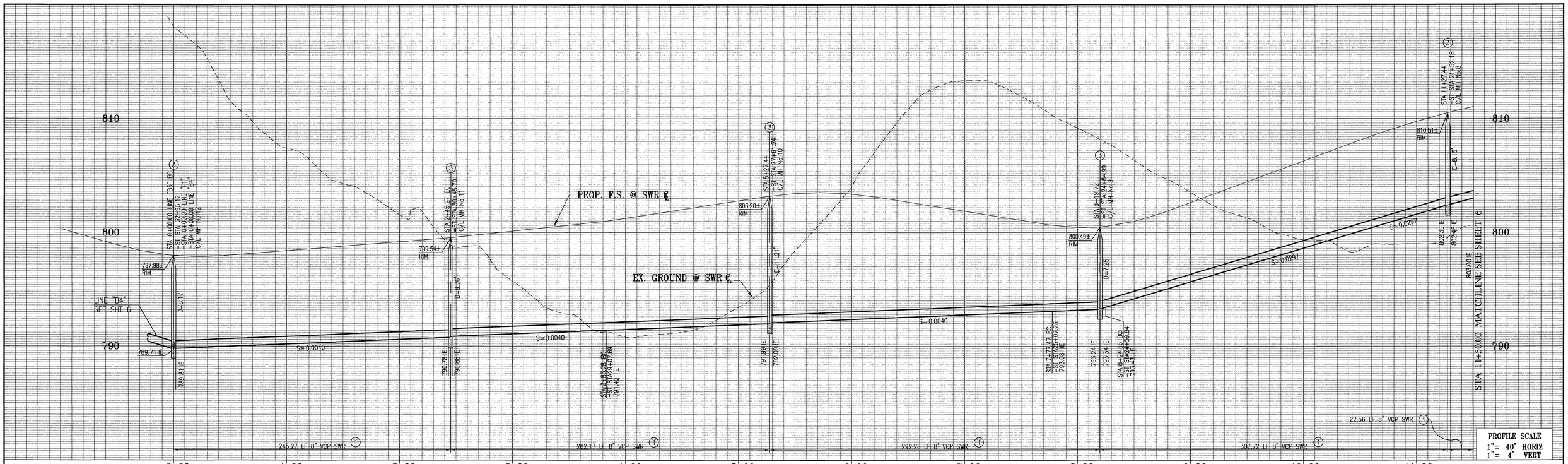
APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY:
CITY ENGINEER
DATE 11/18/06

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "B1" STA 00+00.00 TO STA 1+74.28
LINE "B2" STA 00+00.00 TO STA 7+52.51
FOR: GRIFFIN INDUSTRIES

PW06-0329
S–2002
SHEET 4 OF 10
FILE NO.: 1104–007

INDEXED 2-5-07



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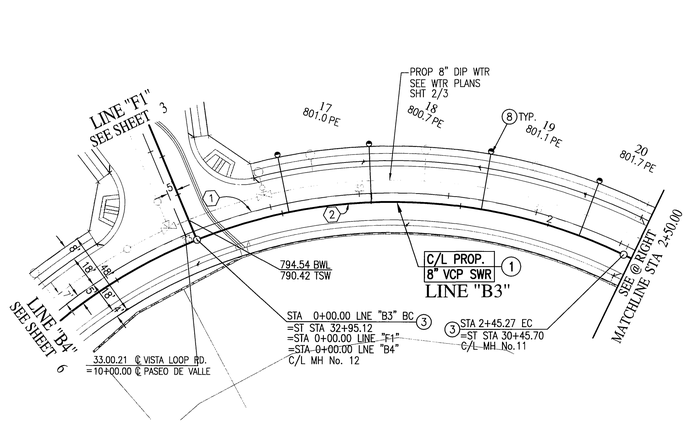

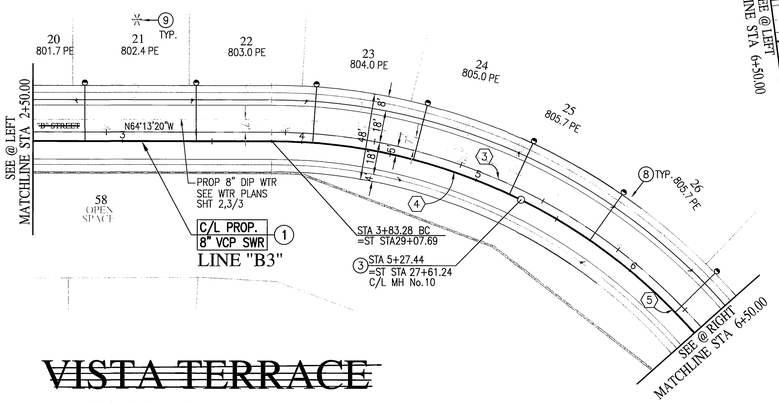

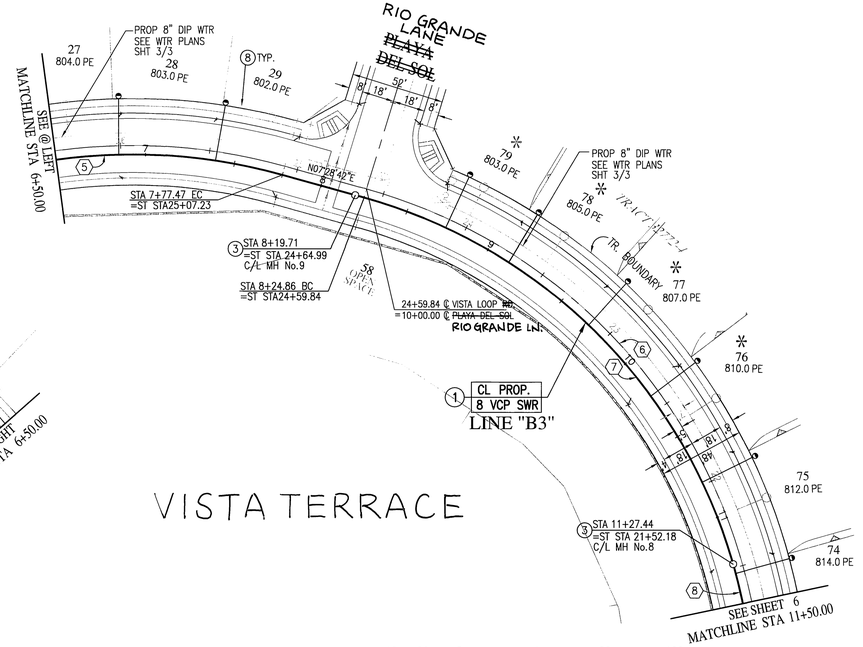

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
1	47°38'12"	300.00'	249.42'	132.43'
2	46°51'35"	295.00'	241.27'	127.84'
3	71°42'02"	320.00'	400.45'	231.22'
4	25°51'27"	315.00'	142.16'	72.31'
5	45°06'56"	315.00'	248.04'	130.85'
6	62°43'26"	302.00'	330.61'	184.07'
7	57°59'07"	297.00'	300.57'	164.58'
8	3°58'01"	297.00'	20.56'	10.29'

~~VISTA TERRACE~~
VISTA POINTE

VISTA TERRACE

CONSTRUCTION NOTES

1. CONSTRUCT 8" VCP SEWER MAIN. LI/ PIPE BEDDING CLASS I PER COR STD DWG. NO. 492
3. CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
8. CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A
9. INSTALL 4" BACKWATER VALVE

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW McGrath 11/30/06
APPROVED BY DATE

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PRIVATE ENGINEERING NOTE

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PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/27/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE. AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

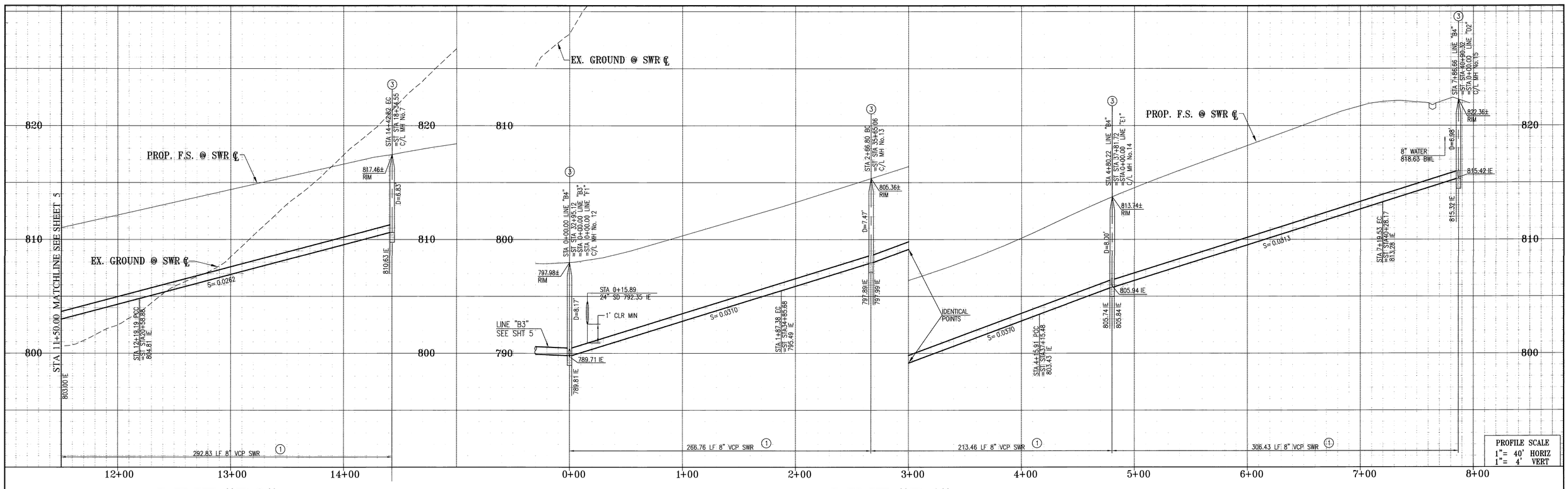
APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY:
CITY ENGINEER
DATE 12/15/06

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "B3"
STA 0+00.00 TO STA 11+50.00
FOR: GRIFFIN INDUSTRIES

PW06-0329
S-2002
SHEET 5 OF 10
FILE NO.: 1104-007

INDEXED 2-5-07 LH



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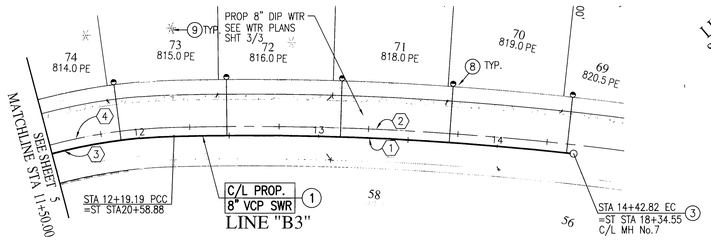
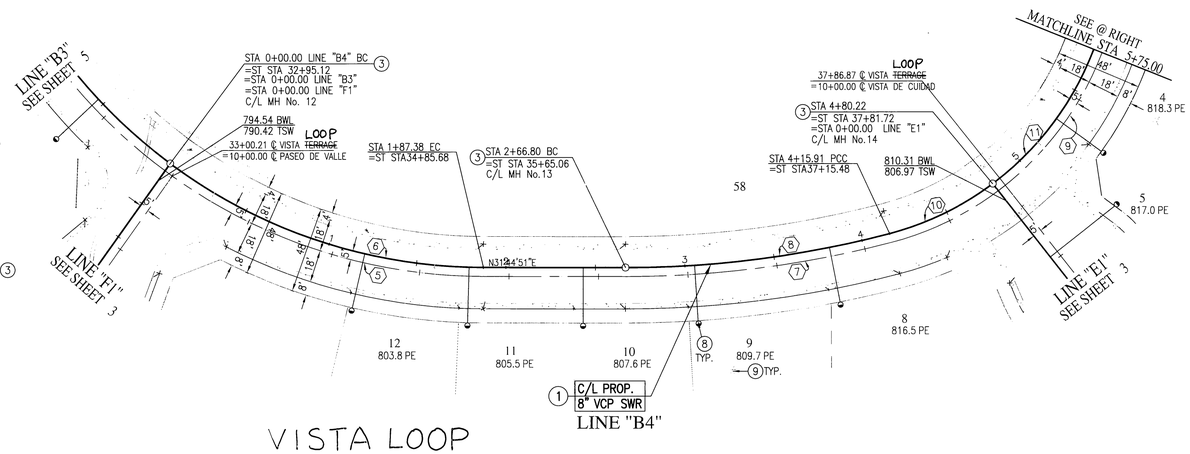
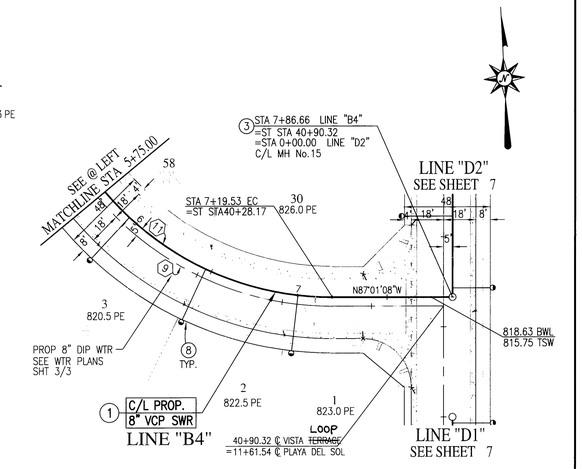


VISTA TERRACE

LINE "B4"



VISTA LOOP



VISTA LOOP

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
⟨1⟩	7°51'47"	1615.00'	221.64'	110.99'
⟨2⟩	7°56'02"	1620.00'	224.33'	112.34'
⟨3⟩	13°20'52"	297.00'	69.19'	34.75'
⟨4⟩	13°20'52"	302.00'	70.35'	35.34'
⟨5⟩	36°22'39"	300.00'	190.47'	98.57'
⟨6⟩	36°00'19"	295.00'	185.38'	95.87'
⟨7⟩	14°36'27"	590.00'	150.42'	75.62'
⟨8⟩	14°24'42"	585.00'	147.14'	73.96'
⟨9⟩	104°09'32"	172.00'	312.68'	220.78'
⟨10⟩	21°22'43"	167.00'	62.31'	31.52'
⟨11⟩	81°24'35"	167.00'	237.29'	143.67'

CONSTRUCTION NOTES

① CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BEDDING CLASS 2 PER LOR STD. DWG. NO. 452
③ CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
⑧ CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A
⑨ INSTALL 4" BACKWATER VALVE

~~VISTA TERRACE~~

SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MMed 11/30/06
APPROVED BY DATE

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.

REGISTERED PROFESSIONAL ENGINEER
DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/29/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787–8421 Fax (951) 682–3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4–07–07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2–P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE. AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

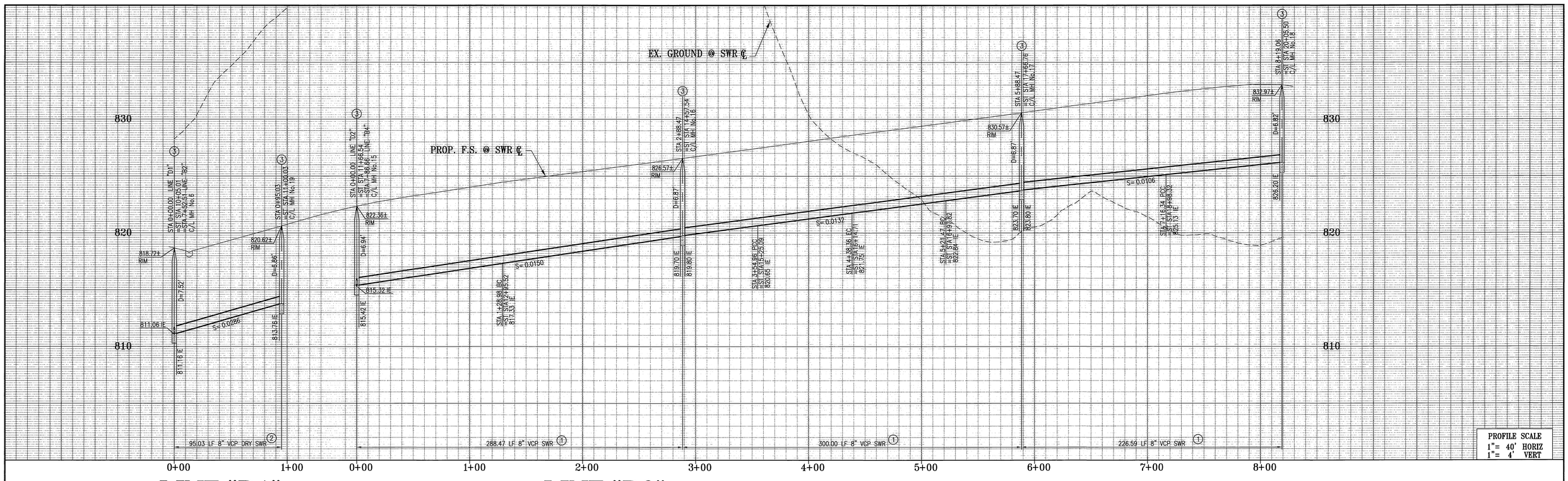
APPROVED BY:
CITY ENGINEER
DATE 12/18/06

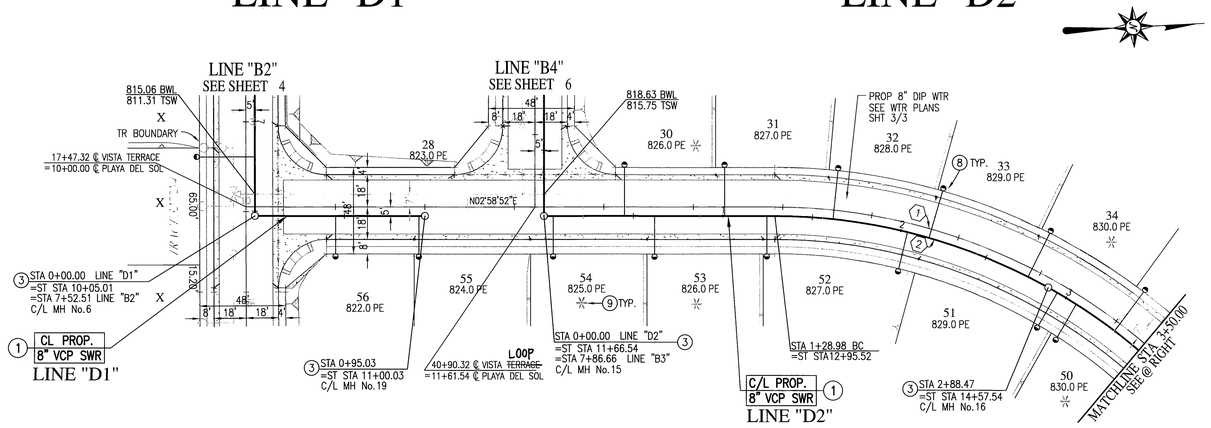
IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "B3" STA 11+50.00 TO STA 14+42.82
LINE "B4" STA 00+00.00 TO STA 7+86.66
FOR: GRIFFIN INDUSTRIES

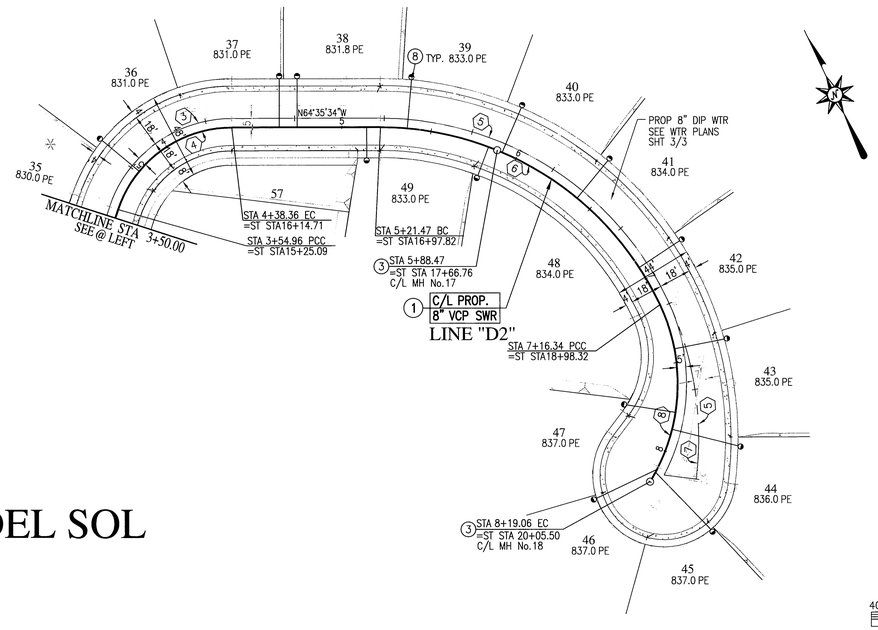
PW06–0329
S–2002
SHEET 6 OF 10
FILE NO.: 1104–007

RJZ

INDEXED 2-5-07 GH







PLAYA DEL SOL

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
⟨1⟩	41°06'11"	320.00'	229.56'	119.97'
⟨2⟩	41°06'16"	315.00'	225.98'	118.10'
⟨3⟩	71°19'23"	72.00'	89.63'	51.66'
⟨4⟩	71°19'34"	66.99'	83.40'	48.07'
⟨5⟩	97°16'12"	178.00'	302.19'	202.15'
⟨6⟩	64°32'16"	173.00'	194.87'	109.23'
⟨7⟩	53°17'19"	107.92'	100.37'	54.15'
⟨8⟩	57°11'05"	102.92'	102.72'	56.10'

CONSTRUCTION NOTES

① CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BEDDING CASE 1 PER LOR. STD. DWG. NO. 452
③ CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
⑧ CONSTRUCT 4" SEWER LATERAL W/CLEANOUT PER CITY RIV. STD. DWG. No. 562A
⑨ INSTALL 4" BACKWATER VALVE

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW McLeod 11/30/06
APPROVED BY DATE

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

PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER
DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/27/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE. AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY:
CITY ENGINEER
DATE 12/18/06

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN

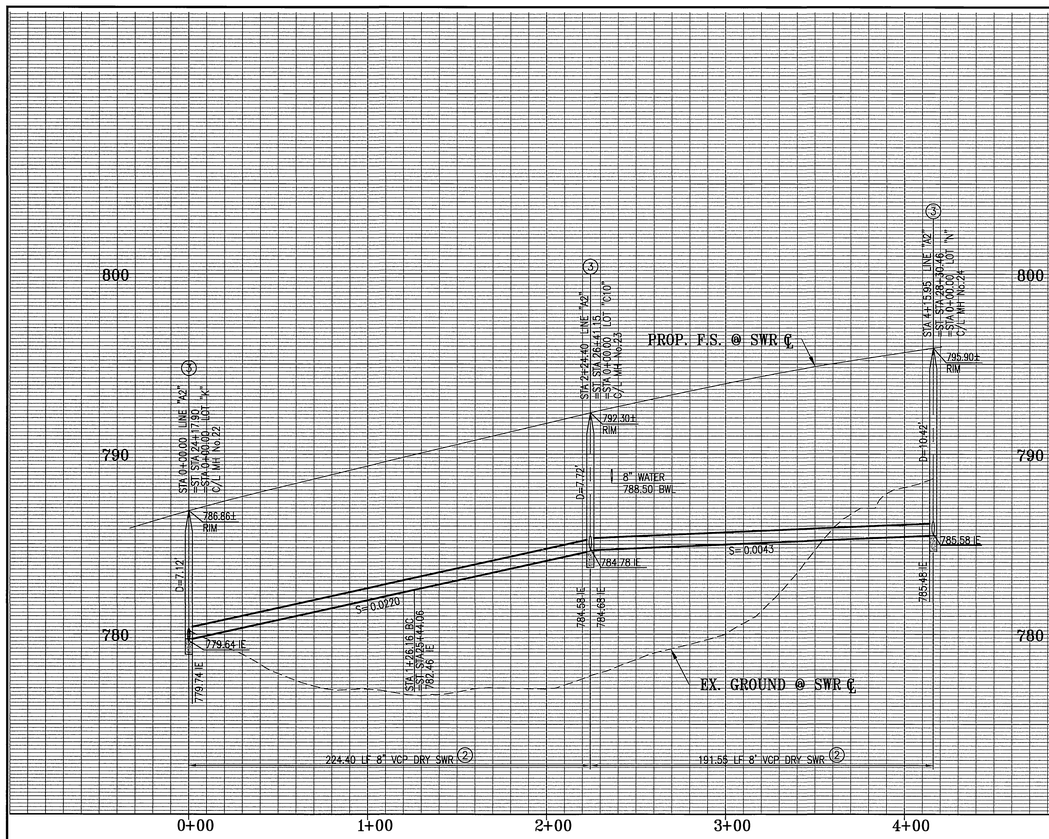
LINE "D1" STA 00+00.00 TO STA 0+95.03
LINE "D2" STA 00+00.00 TO STA 8+19.06

FOR: GRIFFIN INDUSTRIES

PW06-0329
S-2002
SHEET 7 OF 10
FILE NO.: 1104-007

BV2

INDEXED 2-5-07 GH



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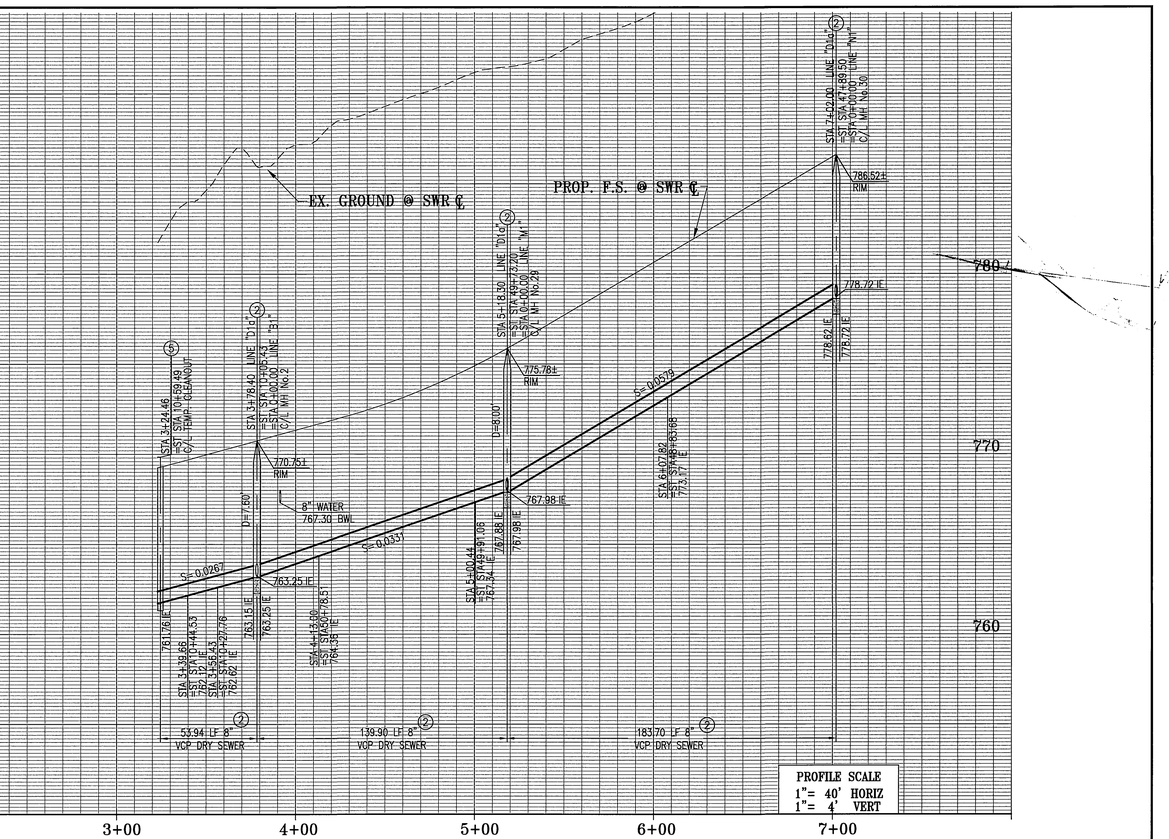

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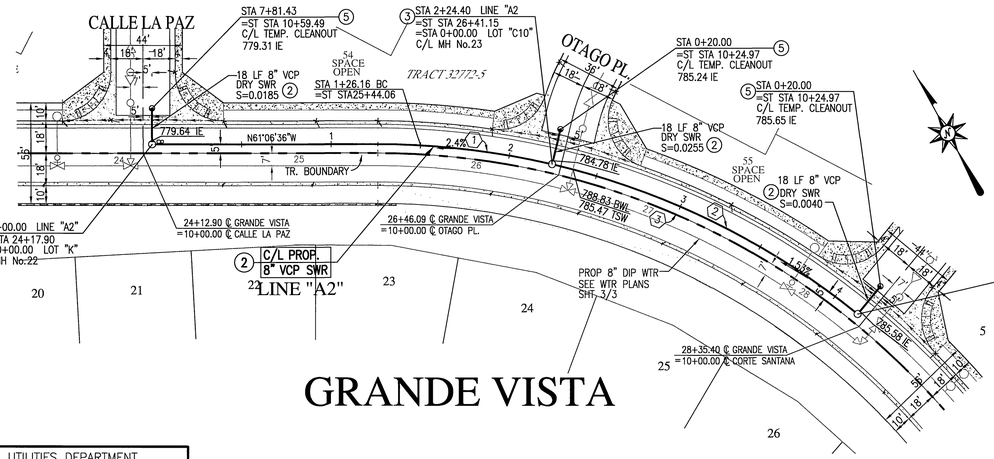
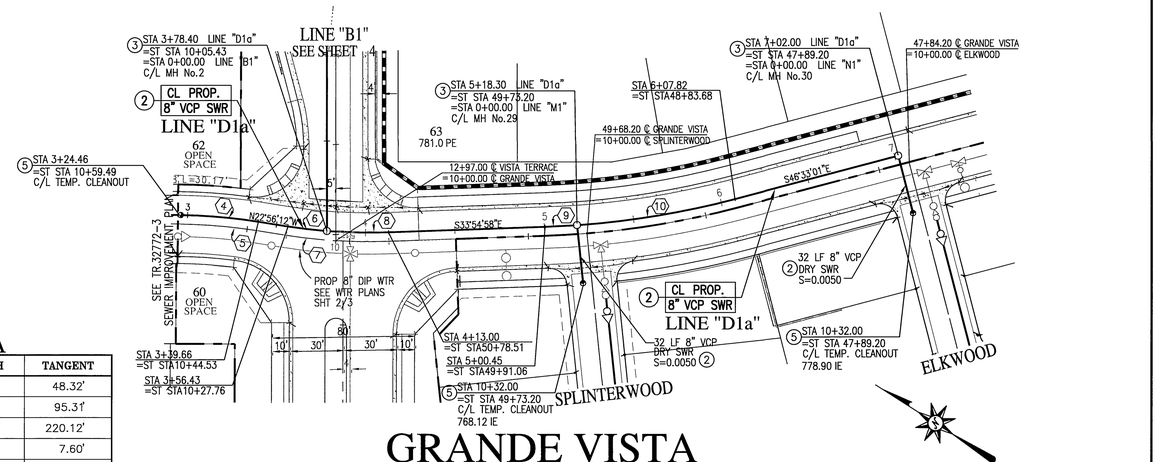


GRANDE VISTA



GRANDE VISTA

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
⟨1⟩	12°54'48"	427.00'	96.24'	48.32'
⟨2⟩	25°09'59"	427.00'	187.55'	95.31'
⟨3⟩	55°05'36"	422.00'	405.78'	220.12'
⟨4⟩	02°51'23"	305.00'	15.21'	7.60'
⟨5⟩	03°08'19"	300.00'	16.43'	8.22'
⟨6⟩	05°18'08"	300.00'	27.76'	13.89'
⟨7⟩	03°52'39"	295.00'	19.96'	9.99'
⟨8⟩	05°55'03"	300.00'	32.58'	16.30'
⟨9⟩	02°06'07"	295.00'	17.87'	8.93'
⟨10⟩	10°31'56"	487.00'	89.52'	44.89'

CONSTRUCTION NOTES

② CONSTRUCT 8" DRY VCP SEWER MAIN W/ PIPE BEDDING CLASE I PER CCR STD. DWG. NO. 452
③ CONSTRUCT 48" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
⑤ INSTALL TEMP. SEWER CLEAN-OUT PER CITY OF RIV. STD. DWG No. 560

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MCLeod 11/30/06
APPROVED BY DATE

Underground Service Alert
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227–2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER
DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/29/06

PLANS PREPARED BY:
PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

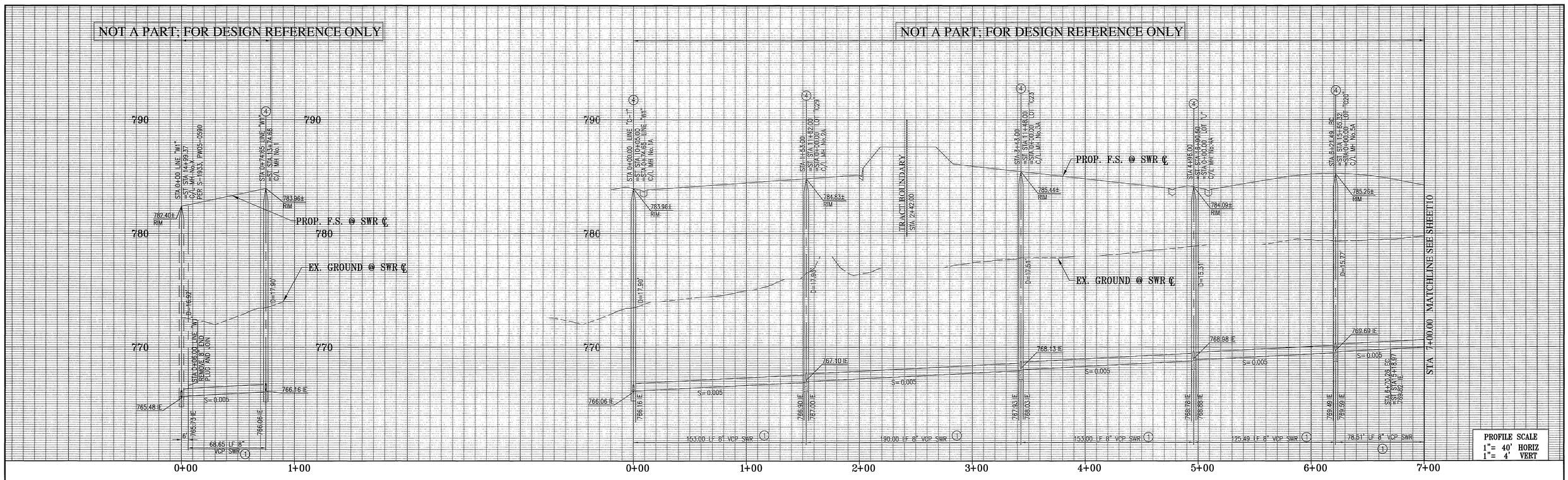
APPROVED BY:
CITY ENGINEER
DATE 12/18/06

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "A2" STA 00+00.00 TO STA 4+15.95
LINE "D1a" STA 3+24.46 TO STA 3+78.40
FOR: GRIFFIN INDUSTRIES

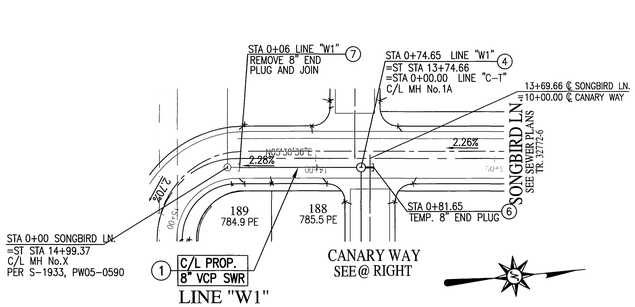
PW06-0329
S-2002
SHEET 8 OF 10
FILE NO.: 1104-007

RJZ

INDEXED 2-5-07 GH



LINE "W1"



SONGBIRD LN. TR 32772-6

CANARY WAY TR 32772-6

LORIKEET DR. TR 32772-F

LIGHTHOUSE LN.

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MCed 11/30/06
APPROVED BY DATE

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
1	39°08'28"	122.00'	83.34'	43.37'
2	21°05'48"	127.00'	46.76'	23.65'

CONSTRUCTION NOTES

1. CONSTRUCT 8" VCP SEWER MAIN. W/ PIPE BOORING CASE I PER COR STD. DWG. NO. 452
4. CONSTRUCT 60" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
6. INSTALL TEMP. 8" END PLUG
7. REMOVE 8" END PLUG AND JOIN

NOT A PART
FOR DESIGN REFERENCE ONLY

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

Underground Service Alert
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227–2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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DAVID L. DRAKE
No. C 64193
Exp. 06-30-07
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

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EXPIRATION DATE: 06-30-07 DATE: 11/29/06

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PSOMAS
2010 Iowa Avenue Suite 101 Riverside, CA 92507
(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

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DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY:
CITY ENGINEER
DATE 12/18/06

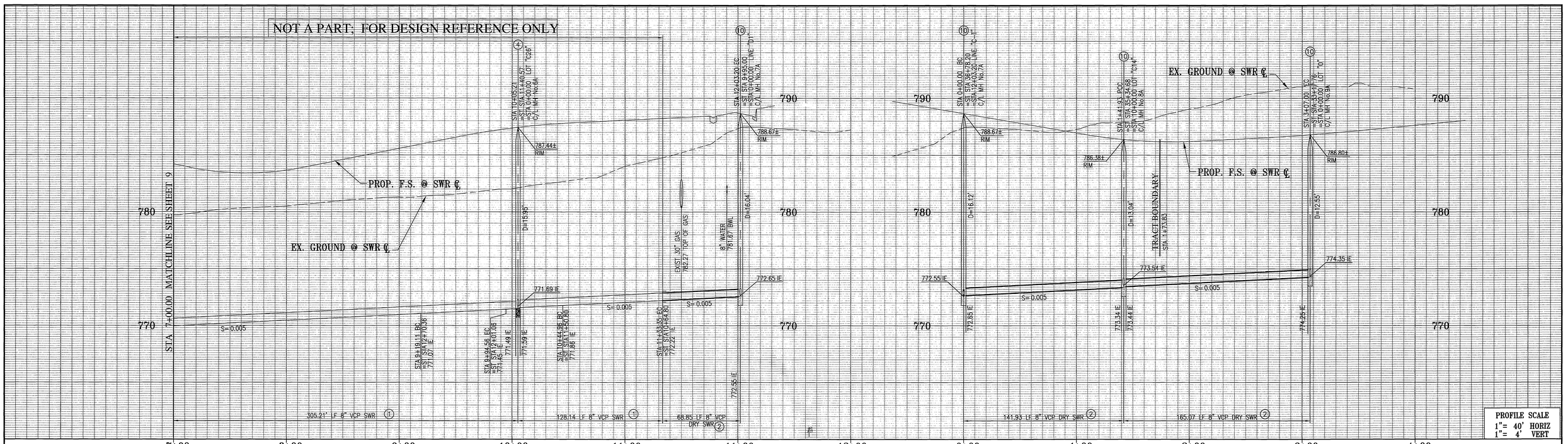
RJZ

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "W1" STA 00+06.00 TO STA 0+81.65
LINE "C-T" STA 00+00.00 TO STA 7+00.00
FOR: GRIFFIN INDUSTRIES

PW06-0329
S-2002
SHEET 9 OF 10
FILE NO.: 1104-007

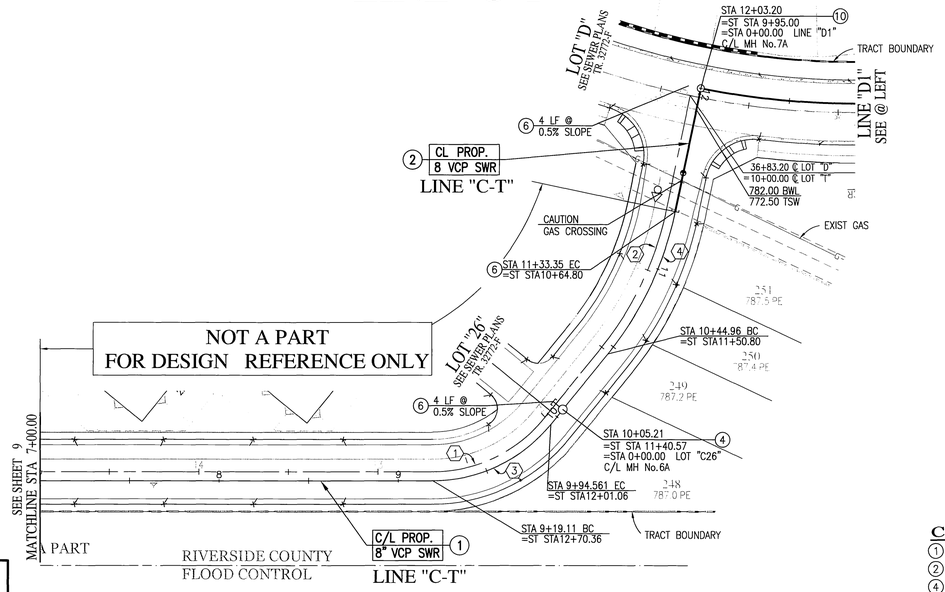
INDEXED 2-5-07 GH

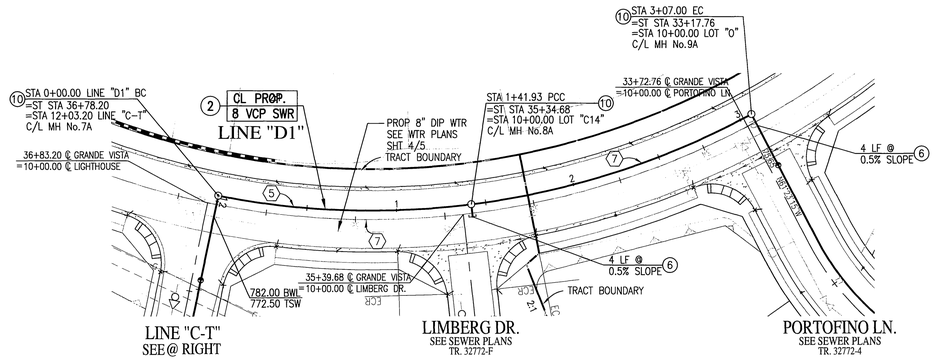
NOT A PART; FOR DESIGN REFERENCE ONLY



LINE "C-T"

LINE "D1"





GRANDE VISTA

CONSTRUCTION NOTES

(1) CONSTRUCT 8" VCP SEWER MAIN W/PIPE BEDDING CASE I PER COR STD DWG NO 452
(2) CONSTRUCT 8" DRY VCP SEWER MAIN
(4) CONSTRUCT 60" SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500.
(6) INSTALL TEMP. 8" END PLUG
(10) INSTALL 48" DRY SEWER MANHOLE PER CITY OF RIV. STD. DWG No. 500. ALL RIMS TO BE PAVED OVER TO RESTRICT ACCESS.

CURVE DATA

No.	DELTA	RADIUS	LENGTH	TANGENT
(1)	50°51'32"	80.00'	71.01'	38.04'
(2)	27°37'02"	180.00'	86.76'	44.24'
(3)	50°51'32"	85.00'	75.45'	40.41'
(4)	27°22'14"	185.00'	88.38'	45.05'
(5)	17°45'32"	445.00'	137.93'	69.52'
(6)	20°44'17"	445.00'	161.07'	81.42'
(7)	74°14'42"	450.00'	583.12'	340.61'

40 20 0 40 80 120
SCALE 1"= 40'

WDID: 8 33C334294

PUBLIC UTILITIES DEPARTMENT
WATER DIVISION

MW MCLeod 11/30/06
APPROVED BY DATE

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REGISTERED PROFESSIONAL ENGINEER — DAVID L. DRAKE — No. C 64193 Exp. 06-30-07 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. C 64193
EXPIRATION DATE:06-30-07 DATE: 11/29/06

PLANS PREPARED BY:
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(951) 787-8421 Fax (951) 682-3379
CITY OF RIVERSIDE TAX CERT NO: 69372 EXP: 4-07-07

SCALE: AS SHOWN
DATE: FEBRUARY 2006

BENCH MARK: E2-P2 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILLMORE STREET. ELEV=738.410

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DD DRAWN BY CA CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		

APPROVED BY: CITY ENGINEER
DATE 12/04/06

RR

IN THE CITY OF RIVERSIDE, CALIFORNIA
TRACT 32772-1
SEWER IMPROVEMENT PLAN
LINE "C-T" STA 7+00.00 TO STA 12+03.20
LINE "D1" STA 00+00.00 TO STA 3+07.00
FOR: GRIFFIN INDUSTRIES

PW06-0329
S-2002
SHEET 10 OF 10
FILE NO.: 1104-007

INDEXED 2-5-07 GH