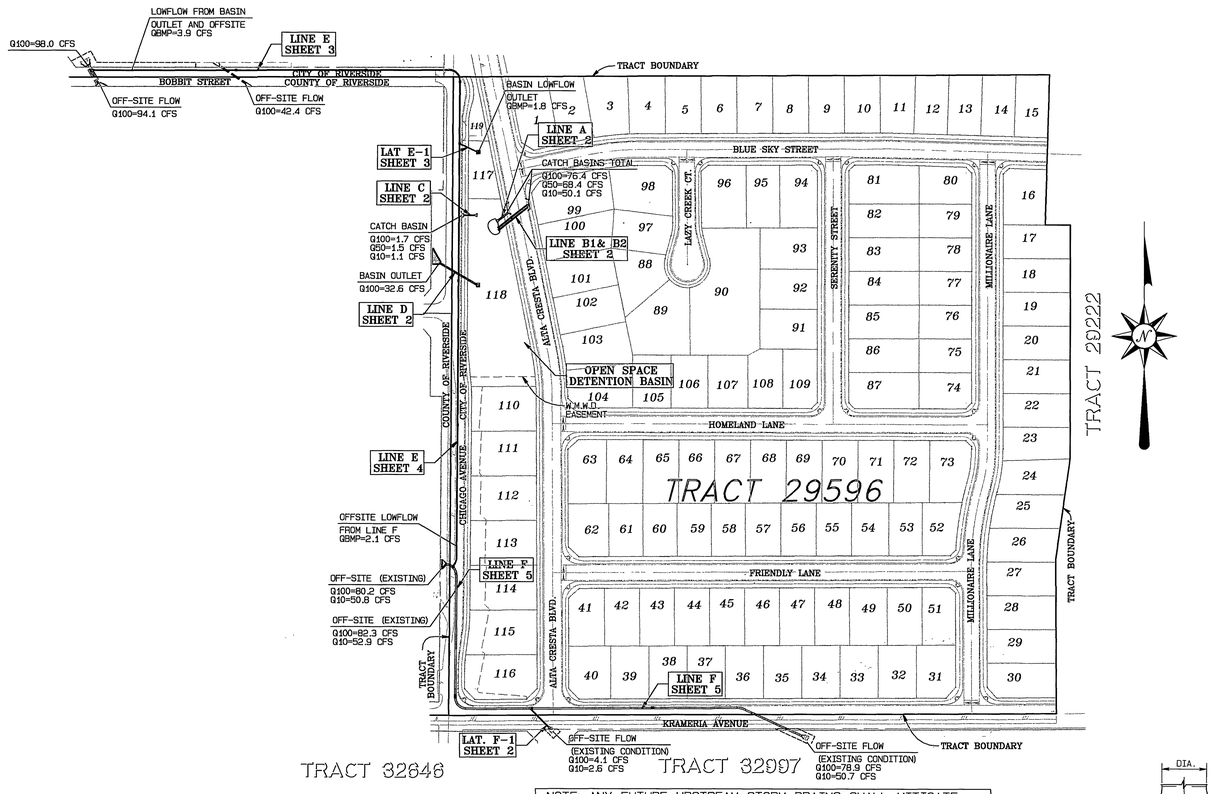
TRACT 29596 STORM DRAIN PLAN

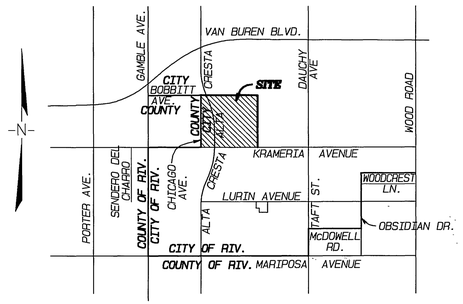


NOTE: ANY FUTURE UPSTREAM STORM DRAINS SHALL MITIGATE INCREASED FLOW RATE DUE TO PROPOSED DEVELOPEMENT BEFORE THEY ARE CONNECTED TO TRACT 29596 STORM DRAIN LINE F AND LAT F-1. THE MITIGATED FLOW RATE FROM FUTURE STORM DRAIN SHALL NOT BE GREATER THAN THAT OF EXISTING CONDITION.

INDEX MAP

ALL FLOWRATES (Q'S) ARE POST-DEVELOPMENT, U.N.O.

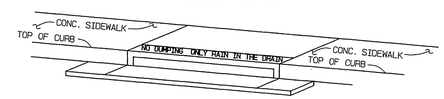
SCALE: 1" =150'



VICINITY MAP

NOT TO SCALE

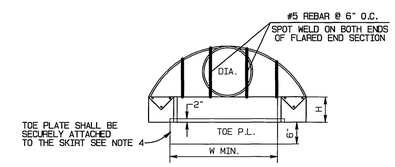
SECTION 30, T3S, R4W



CATCH BASIN STENCILING DETAIL

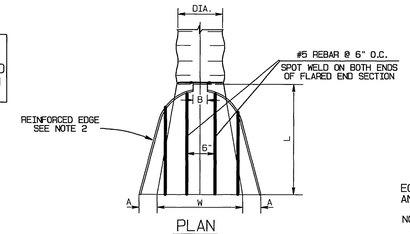
N.T.S.

- Ⓐ STENCILS TO HAVE 2" LETTERS AS FOLLOWS: "NO DUMPING ONLY RAIN IN THE DRAIN"
- Ⓑ PLACE BOTH STENCILS CENTERED WITHIN THE CATCH BASIN OPENING AND WITHIN THE TOP OF THE CURB.
- Ⓒ SPRAY BOTH STENCILS WITH WHITE PAINT.
- Ⓓ REMOVE STENCILS WHEN PAINT IS DRY



ELEVATION

NOT TO SCALE



PLAN

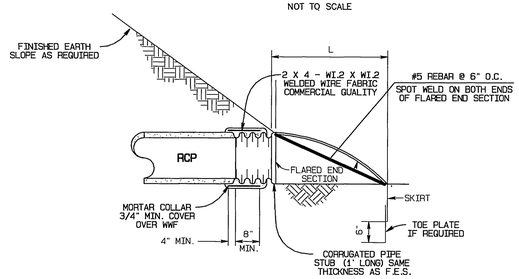
NOT TO SCALE

PIPE DIA.	END SECTION THICKNESS	DIMENSION-INCHES				
		A	B	H	L	W
		1"±	MAX.	1"±	1 1/2"±	2"±
18"ø	0.064"	8	10	6	31	36
24"ø	0.064"	10	13	6	41	48
30"ø	0.079"	12	16	8	51	60
36"ø	0.079"	14	19	9	60	72

EQUIVALENT PLASTIC F.E.S. TO MEET AASHTO M-294 AND ASTM D-1248 SPECIFICATIONS

NOTES

1. ALL 3-PIÈCE BODIES TO HAVE 0.109" THICK SIDES AND 0.138" THICK CENTER PANELS. WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY RIVETS OR BOLTS.
2. REINFORCED EDGES TO BE SUPPLEMENTED WITH STIFFER ANGLES FOR THE 60" THRU 84" ROUND, 77" X 52" AND 83" X 57" PIPE-ARCH SIZES. THE ANGLES WILL BE 2" X 2" X 1/4" FOR THE 60" THRU 72" ROUND, 77" X 52" AND 83" X 57" PIPE-ARCH SIZES AND 2" X 2 1/2"
3. ANGLES REINFORCEMENT SHALL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 77" X 52" AND 83" X 57" PIPE-ARCH SIZES.
4. TOE PLATE TO BE AVAILABLE AS AN ACCESSORY WHEN SPECIFIED.
5. END OF PIPE TO BE FINISHED WITH ANNULAR CORRUGATIONS TO CONFORM FLARED END SECTION SO THAT MINIMAL LEAKAGE RESULTS FROM THE CONNECTION. OTHER DESIGNS MAY BE USED WITH APPROVAL OF THE ENGINEER.
6. FOR 12" THRU 24" HELICAL END SECTION CONNECTION, A UNIVERSAL COUPLING BAND ATTACHED TO THE METAL END SECTION BY RIVETS, BOLTS OR ONE INCH LONG SHOP TACK WELDS SPACED AT SAME INTERVALS AS DIMPLES MAY BE USED IN PLACE OF THE 112" STUB SEE ST



TYPICAL CROSS SECTION

NOT TO SCALE

FLARED END SECTION ⑨
CONNECTION TO RCP

NOT TO SCALE

GENERAL NOTES

1. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RIVERSIDE DEPT. OF PUBLIC WORKS STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. 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.
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. THE CONTRACTOR SHALL CALL IN A LOCATIONS REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.). PHONE NO. 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
6. 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.
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. 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.
9. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
10. BEFORE THE RIP-RAP AT THE OUTLET OF ANY DRAINAGE STRUCTURE IS ACCEPTED BY THE CITY, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.

NOTICE TO CONTRACTOR

ACCORDING TO INFORMATION PROVIDED BY UNDERGROUND SERVICE ALERT (U.S.A.) DATED MARCH 3, 2004, THE FOLLOWING ORGANIZATIONS ARE U.S.A. MEMBERS WITHIN THE PROJECT AREA:

UTI FOR CHARTER COMMUNICATIONS
SBC / PACIFIC BELL
SOUTHERN CALIFORNIA GAS COMPANY
UTI FOR VERIZON - PERRIS
UTI FOR SC EDISON
WESTERN MUNICIPAL WATER DISTRICT
ADELPHIA - RIVERSIDE
UTI FOR CITY OF RIVERSIDE - ELECTRIC
CITY OF RIVERSIDE - TRAFFIC ENGINEERING
ATT OSP ENGINEERING
WILTEL COMMUNICATIONS

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 PROVIDED BY THESE MEMBER AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER 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.

CALL UNDERGROUND SERVICE ALERT (U.S.A.) 1-800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION.

THE QUANTITY ESTIMATE SHOWN HEREON IS FOR THE USE OF GOVERNING AGENCIES IN DETERMINING BOND AMOUNTS AND/OR FEES AND IS NOT TO BE USED FOR BID PURPOSES.

ROCK SLOPE PROTECTION FILTER BLANKET

FILTER BLANKET MATERIAL SHALL BE 12" THICK AND WELL GRADED WITHIN THE LIMITS SPECIFIED BELOW:

STONE SIZE (IN)	% SMALLER (BY WEIGHT)
12	100
8	75-100
6	60-80
4	40-60
1	5-25
3/8	0-10

FILTER FABRIC SHALL BE MIRAFI 700X OR EQUIVALENT

ROCK SLOPE PROTECTION: PER SECTION 19.6 OF STANDARD SPECIFICATIONS FOR FLOOD CONTROL AND DRAINAGE FACILITIES.

CONSTRUCTION NOTES / QUANTITIES

	CONSTRUCTION NOTES	QUANTITIES
1	CONSTRUCT 18" RCP (D-2000)	~~1885 LF~~ 1916 LF △3
2	CONSTRUCT 30" RCP (D-2000)	115 LF
3	CONSTRUCT 36" RCP (D-2000)	1026 LF
4	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405	49 LF (2- 21 LF, 1- 7 LF)
5	CONSTRUCT JUNCTION STRUCTURE B PER CITY OF RIVERSIDE STD. DWG. NO. 421	2 EA
6	CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430	2 EA
△3 △1 7	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424	△1 ~~42 EA~~ 5 EA
△2 8	TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452 CASE I	~~3176 LF~~ 3201 LF △3
9	CONSTRUCT METAL FLARED END SECTION PER DETAIL ON SHEET 1	6 EA
10	CONSTRUCT 48" DIA CMP OUTLET PER DETAIL ON SHEET 2	1 EA
10a	CONSTRUCT 48" DIA CMP OUTLET PER DETAIL ON SHEET 3	1 EA
11	CONSTRUCT 1/4 TON ROCK RIP-RAP DIM. PER PLAN	36.7 CY
12	CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. NO. 431	6 EA
13	CONSTRUCT 24" RCP (D-2000)	150 LF
14	CONSTRUCT CONCRETE HEADWALL PER CALTRANS STD DWG. D89	2 EA
15	CONSTRUCT MODIFIED MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432 & DETAIL PER SHEET 4	1 EA
△1 16	CONSTRUCT SECURITY GATE PER DETAIL ON SHEET 3.	△1 2 EA
△1 17	CONSTRUCT GUARDRAIL PER CALTRANS STD. A 77A	△1 70 LF
△2 18	CONSTRUCT CATCH BASIN U0.2 PER COUNTY TRANSPORTATION STD. 302	△1 1 EA
△2 19	CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432	1 EA

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 116 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

MS 3983 I.P. 040150

FILE: G:\2004\04-0008\04_0008.pro PLOT DATE: 4/25/2007

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

REVIEW BY:
WESTERN MUNICIPAL WATER DISTRICT
FOR NON-INTERFERENCE COMPLIANCE
SHEET 1 THROUGH 5
MECHANICAL ENGINEER M 26589
DATE: 5-8-07

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45702 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
ALAN D. FRENCH, P.E. DATE 5.3.07
RECOMMENDED: DATE 5-2-07

REGISTERED PROFESSIONAL ENGINEER HUA LIN McCAFFREY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070
PREPARED BY
R.C.E. NO. C49405 EXP. DATE 9-30-08
DATE 4.25.07
W.O. 04-0008 FOR: CENTEX HOMES F.B.

MARK	REVISIONS	CO. APPR.	CITY APPR.	DATE
△1	REVISED LINE D & LINE F	RR	RR	12/6/07
△2	ADD LAT. E-2 PLAN & PROFILE, SHEET 4	RR	RR	11/30/10
	"As built sheet 3"			

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

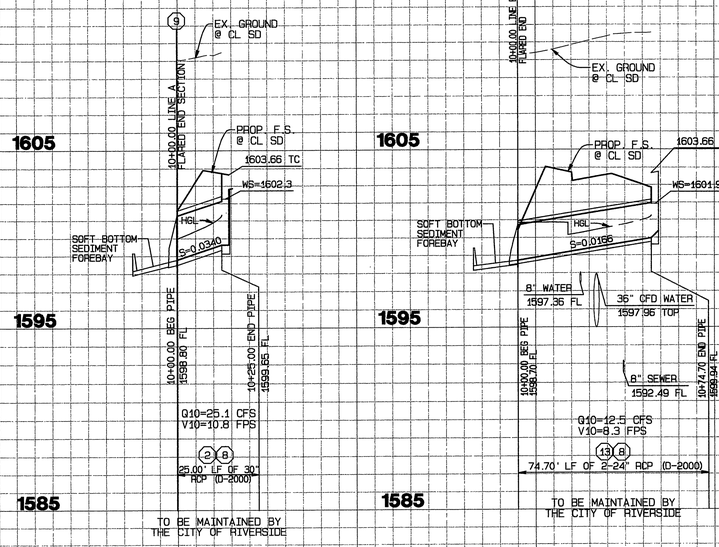
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
ENGINEERING MGR.		

APPROVED BY
CITY ENGINEER
DATE 6/21/07

STORM DRAIN PLAN & PROFILE
TRACT NO. 29596
TITLE SHEET
SCALE: AS SHEET

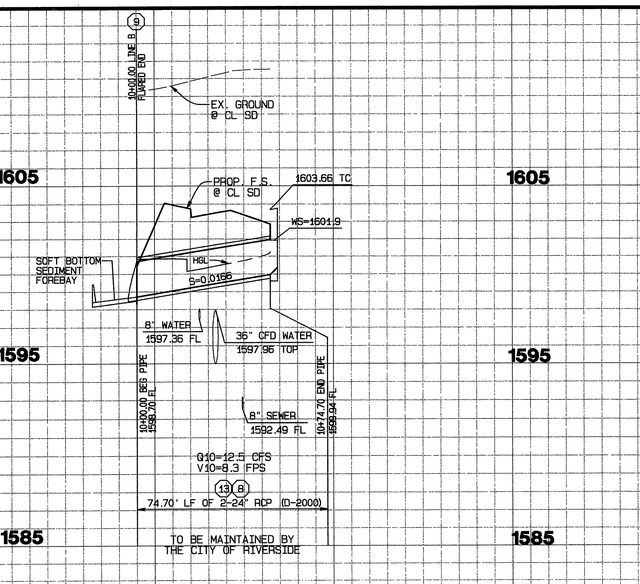
FILE NO. 2004-0008
DRAWING NUMBER
D-795
SHEET 1 OF 5
PW04-0525

RR
As-Built
Date Recived Oct 28-2009
INDEXED 8-19-07 HH



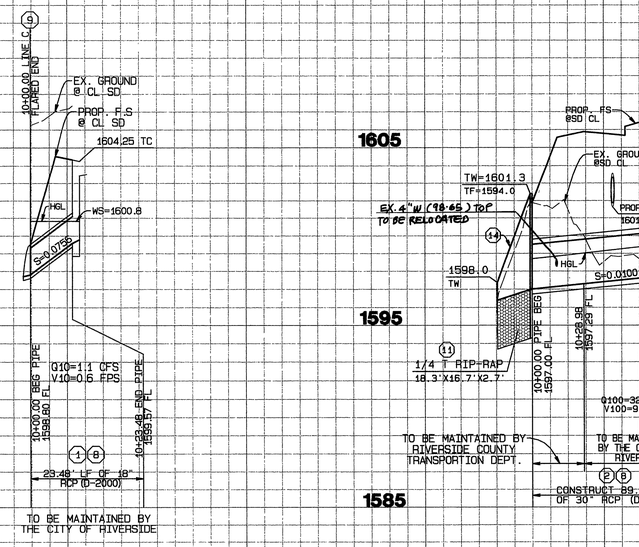
LINE A

PLAN VIEW SEE BELOW



LINE B1 & B2

PLAN VIEW SEE BELOW

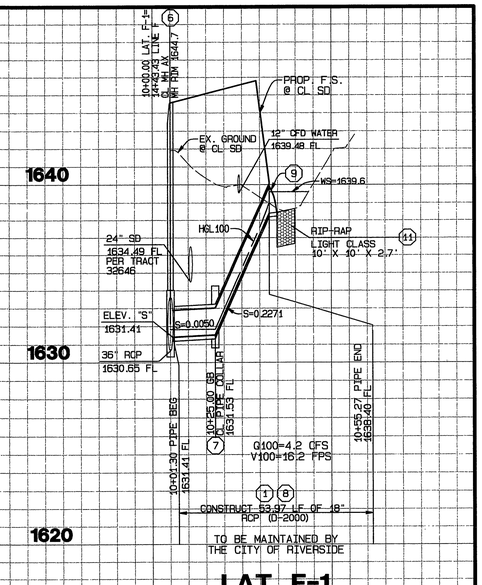


LINE C

PLAN VIEW SEE BELOW

LINE D

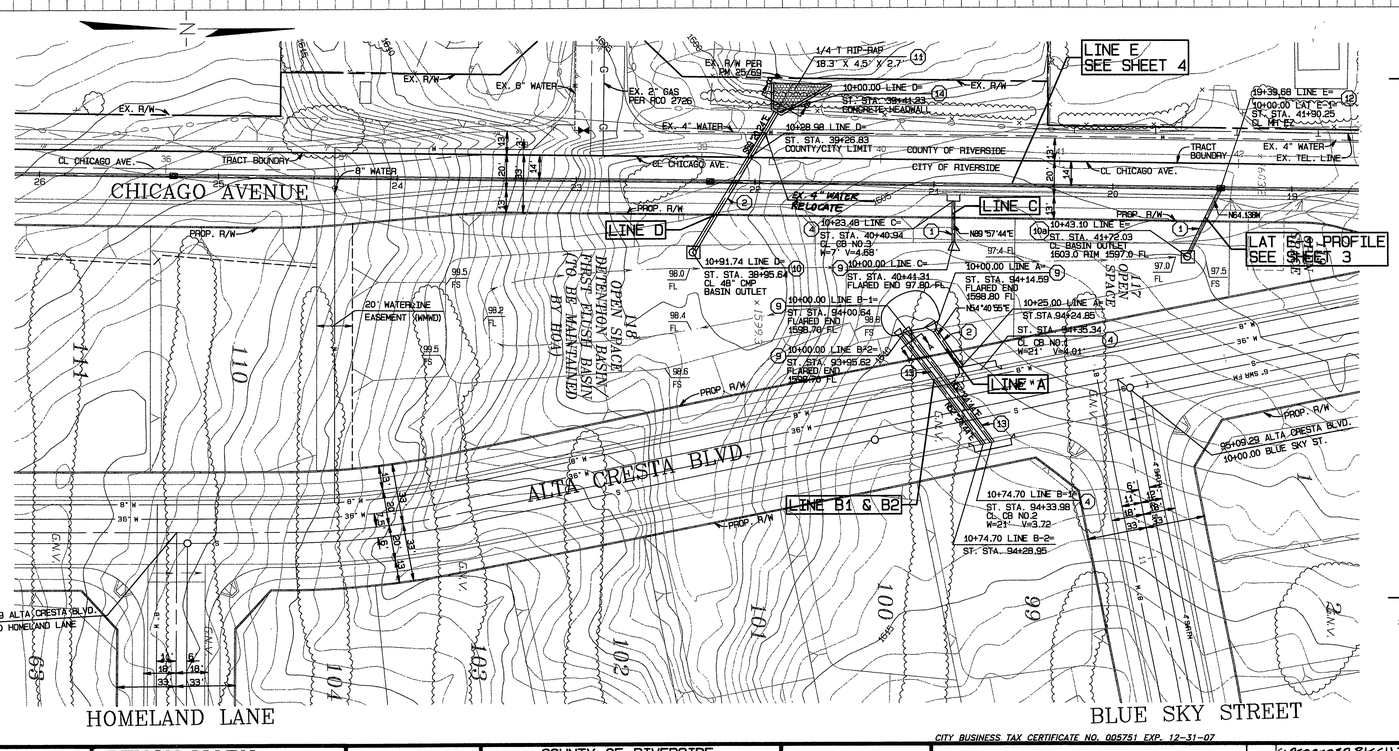
PLAN VIEW SEE BELOW

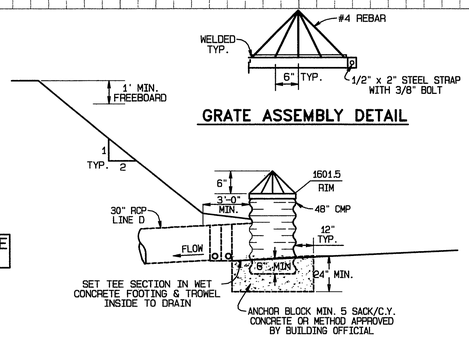


LAT. F-1

PLAN VIEW SEE SHEET 5

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





GRATE ASSEMBLY DETAIL

48" CMP BASIN OUTLET DETAIL (LINE D) (10)

NOT TO SCALE

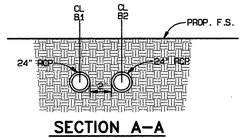
NOTE:

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

CONTRCTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

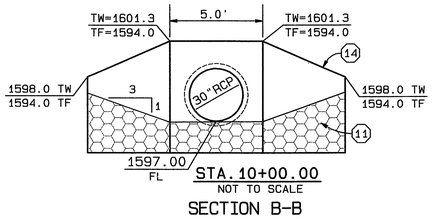
CONSTRUCTION NOTES

1. CONSTRUCT 18" RCP (D-2000)
2. CONSTRUCT 30" RCP (D-1500)
4. CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405
8. TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
9. CONSTRUCT METAL FLARED END SECTION PER DETAIL ON SHEET 1
10. CONSTRUCT 48" DIA CMP OUTLET PER DETAIL ON SHEET 2
10a. CONSTRUCT 48" DIA CMP OUTLET PER DETAIL ON SHEET 3
11. CONSTRUCT 1/4 TON ROCK RIP-RAP DIM. PER PLAN
13. CONSTRUCT 24" RCP (D-2000)
14. CONSTRUCT CONCRETE HEADWALL PER CALTRANS STD DWG. D89



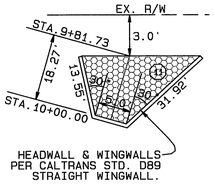
SECTION A-A

NOT TO SCALE



NOT TO SCALE

SECTION B-B



HEADWALL & WINGWALLS PER CALTRANS STD. D89 STRAIGHT WINGWALL.

PLAN VIEW

GRAPHIC SCALE 1"=40'

40 20 0 40 80 120

MS 3983 I.P. 040150

FILE: G:\2004\04-0028\04_0028.prn PLOT DATE: 4/26/2007

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 116 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45762 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
ALAN D. FRENCH, P.E. — DATE 5-3-07
RECOMMENDED: — DATE 5-2-07

REGISTERED PROFESSIONAL ENGINEER HUA YIN McCAFFREY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070

PREPARED BY — DATE 4-25-07
R.C.E. NO. C49405 — EXP. DATE 9-30-08
W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	APPR.	DATE
	SUPERCEDED BY SH.2A	RVR	12/6/07

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
CITY ENGINEER		

DATE 5/21/07

STORM DRAIN PLAN & PROFILE

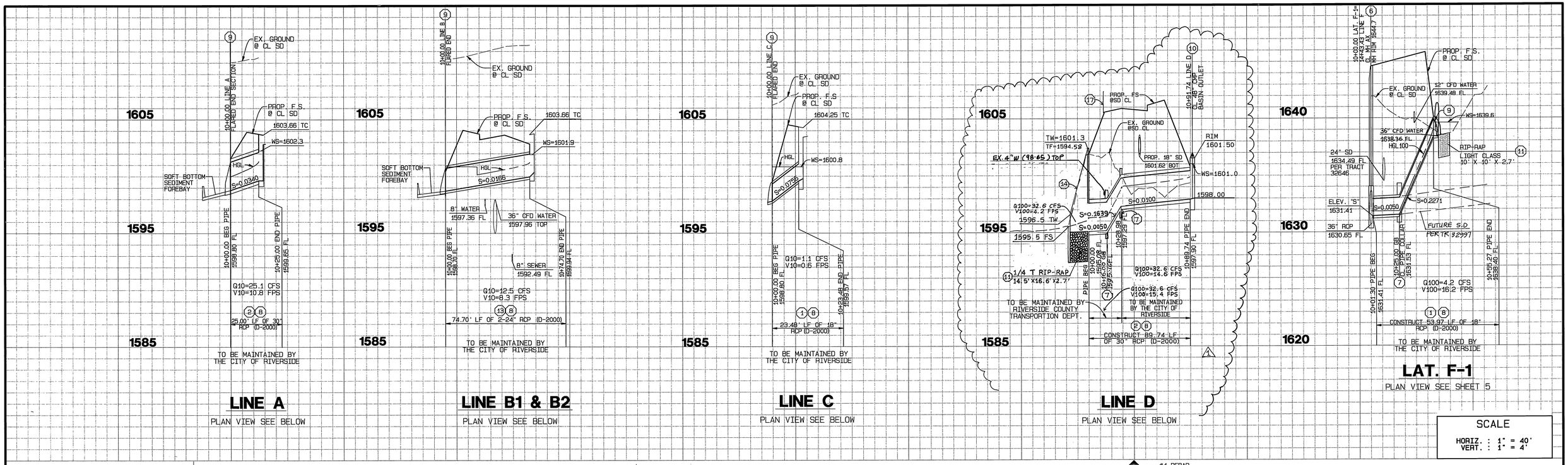
TRACT NO. 29596

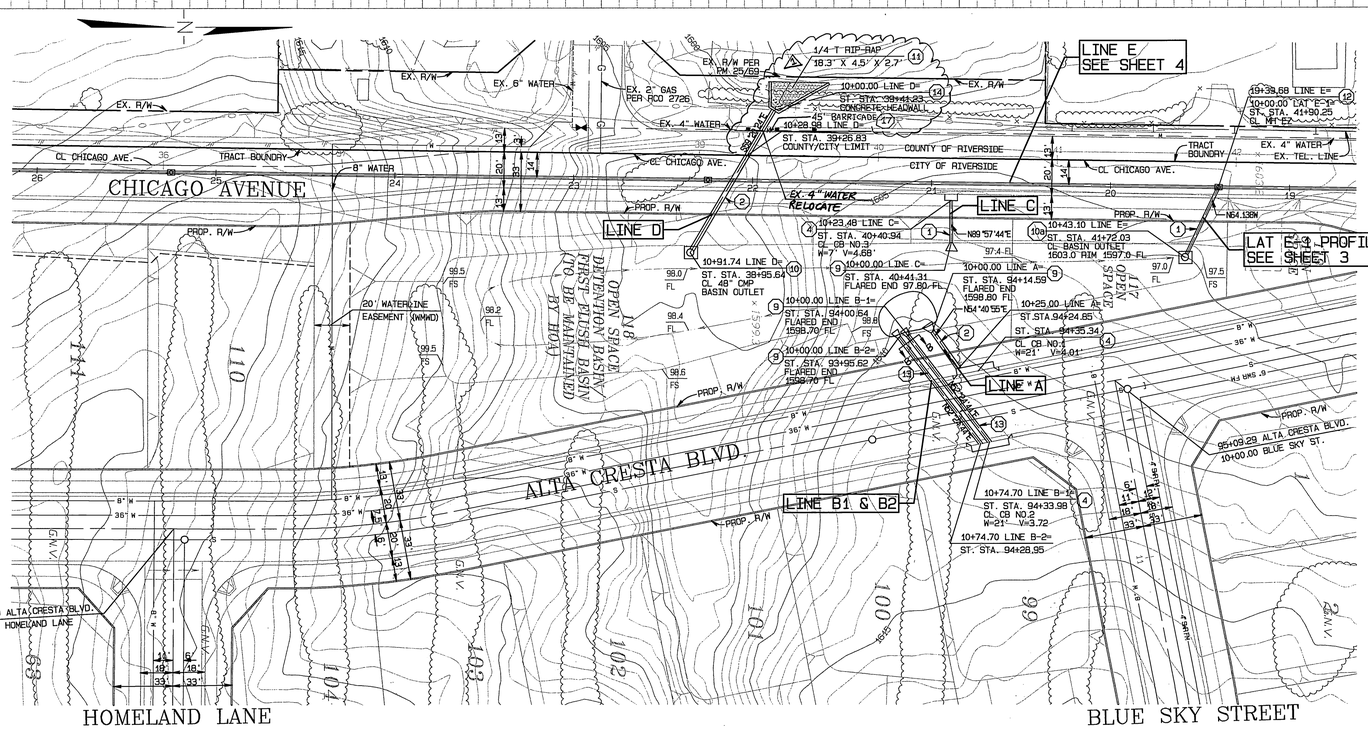
LINE A, B, C, D, AND LAT. F-1

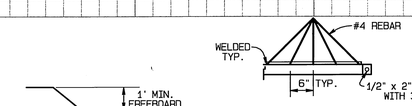
SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

FILE NO. 2004-0008
DRAWING NUMBER
D-795
SHEET 2 OF 5
PW04-0525

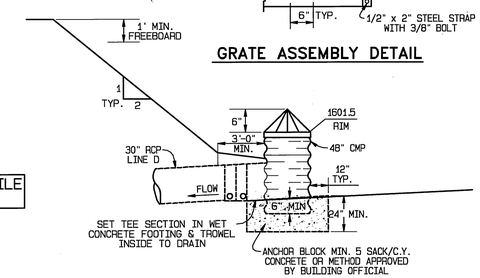
INDEXED 8-14-07 LH







GRATE ASSEMBLY DETAIL



48" CMP BASIN OUTLET DETAIL (LINE D) (10)

NOT TO SCALE

NOTE:

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

CONTRCTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

CONSTRUCTION NOTES

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2. CONSTRUCT 30" RCP (D-1500)
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8. TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
9. CONSTRUCT METAL FLARED END SECTION PER DETAIL ON SHEET 1
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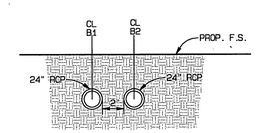
11. CONSTRUCT 1/4 TON ROCK RIP-RAP DIM. PER PLAN
13. CONSTRUCT 24" RCP (D-2000)
14. CONSTRUCT CONCRETE HEADWALL PER CALTRANS STD DWG. D89
16. CONSTRUCT SECURITY GATE PER DETAIL ON SHEET 3.
17. CONSTRUCT GUARDRAIL PER CALTRANS STD. A 77A

CONSTRUCTION NOTES CONTD.....

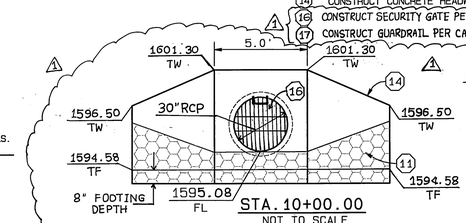
7. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424

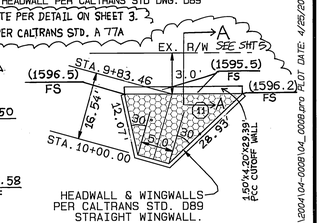
SECTION A-A
SEE SHEET 5



SECTION B-B

NOT TO SCALE





PLAN VIEW

GRAPHIC SCALE 1"=40'

40 20 0 40 80 120

MS 3983 I.P. 040150

FILE: G:\2004\04-0008\04_0008.pro PLOT DATE: 4/25/2007

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 116 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45702 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
Alan French 5-3-07
ALAN D. FRENCH, P.E. DATE
5-2-07
RECOMMENDED: DATE

REGISTERED PROFESSIONAL ENGINEER ALAN C/N McCAFFREY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070

PREPARED BY: L. M. McCaffrey DATE 4-25-07
R.C.E. NO. C49405 EXP. DATE 9-30-08

W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	CO. APPR.	CITY APPR.	DATE
1	REVISED LINE D, ADDED BARRICADE	AA	RR	11/07

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/14/07
TRAFFIC DIVISION		11-15-07
ENGINEERING MANAGER		

APPROVED BY
CITY ENGINEER
DATE 5/1/07

STORM DRAIN PLAN & PROFILE

TRACT NO. 29596

LINE A, B, C, D, AND LAT. F-1

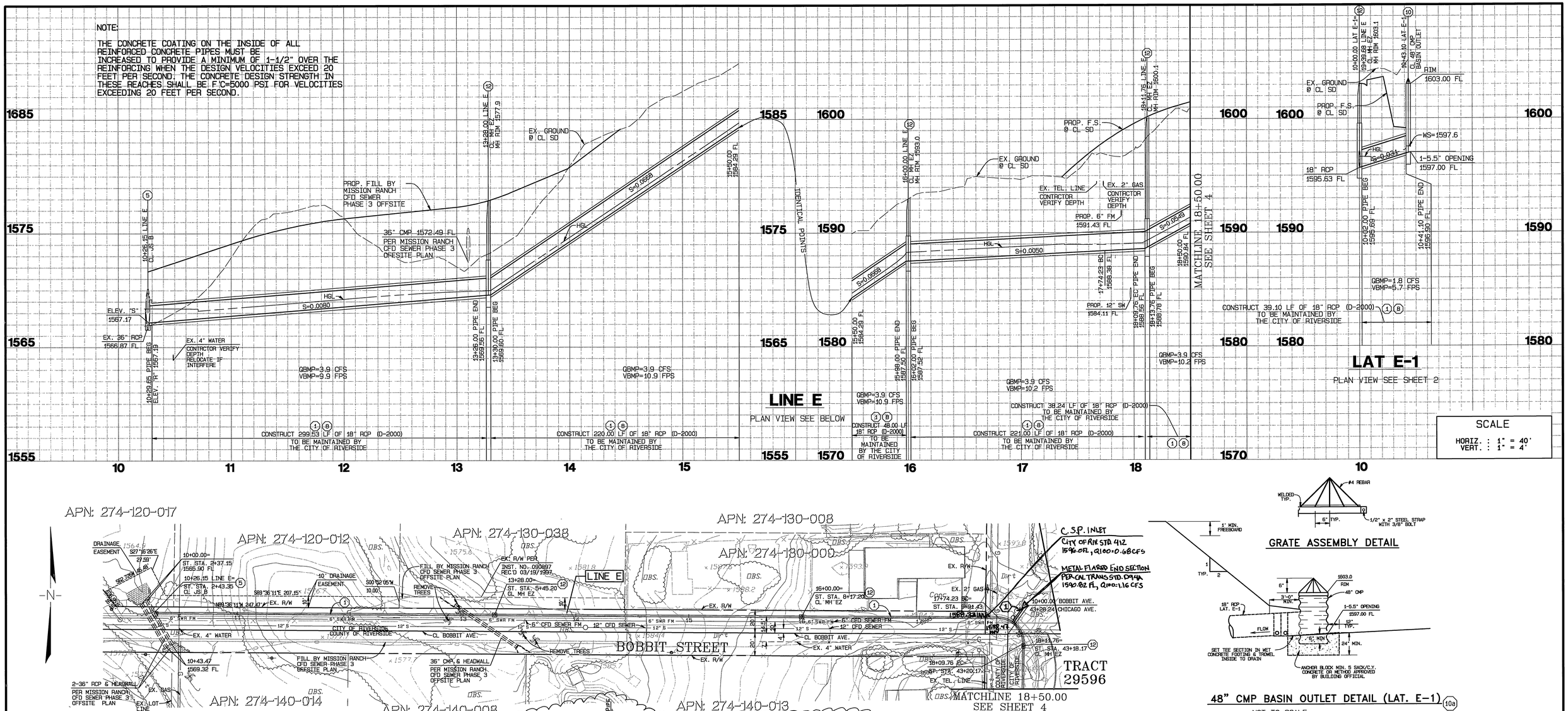
SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

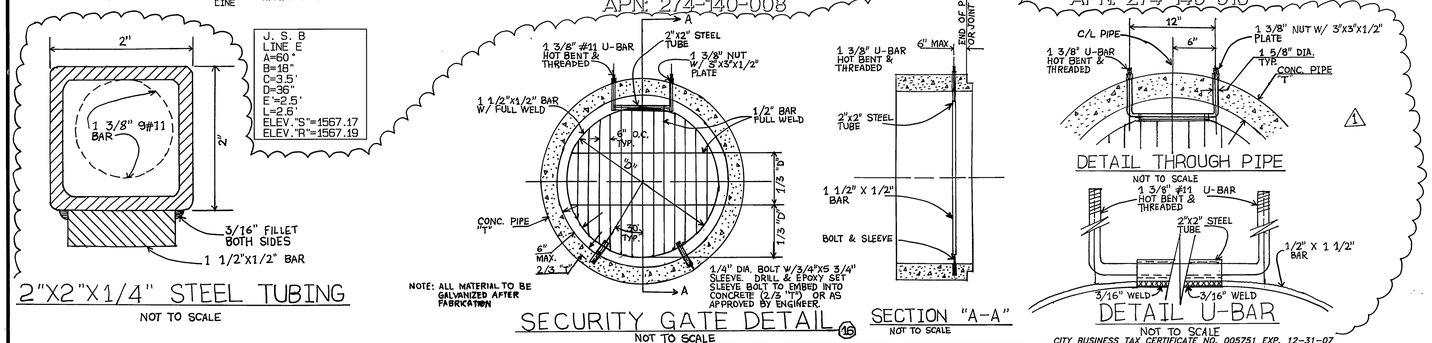
FILE NO. 2004-0008
DRAWING NUMBER
D-795
SHEET 2A OF 5
PW04-0525

INDEXED 8-14-07

NOTE:

THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND.





LINE E CURVE DATA

LINE	RADIUS	DELTA	LENGTH	TANGENT
C1	22.50'	90.465	35.53'	22.68'

CONSTRUCTION NOTES

1. CONSTRUCT 18" RCP (D-2000)
5. CONSTRUCT JUNCTION STRUCTURE B PER CITY OF RIVERSIDE STD. DWG. NO. 421
8. TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
10a. CONSTRUCT 48" DIA CMP OUTLET PER DETAIL ON SHEET 3
12. CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. NO. 431
1 16. CONSTRUCT SECURITY GATE PER DETAIL THIS SHEET

NOTE:

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

CONTRCTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

GRAPHIC SCALE 1"=40'

40 20 0 40 80 120

FILE: G:\2004\04-0008\04_0008.pro PLOT DATE: 4/25/2007

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 116 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45798 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:

ALAN D. FRENCH, P.E. DATE

RECOMMENDED: DATE

REGISTERED PROFESSIONAL ENGINEER NOA LYN McCAFFREY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070

PREPARED BY: DATE 4-25-07
R.C.E. NO. C49405 EXP. DATE 9-30-08
W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	CO. APPR.	CITY APPR.	DATE
A	ADDED SECURITY GATE DETAIL "AS-BUILT"	—	TJR	7/26/07

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/26/07
TRAFFIC DIVISION		
ENGINEERING MGR.		

APPROVED BY
CITY ENGINEER
DATE 6/26/07

STORM DRAIN PLAN & PROFILE

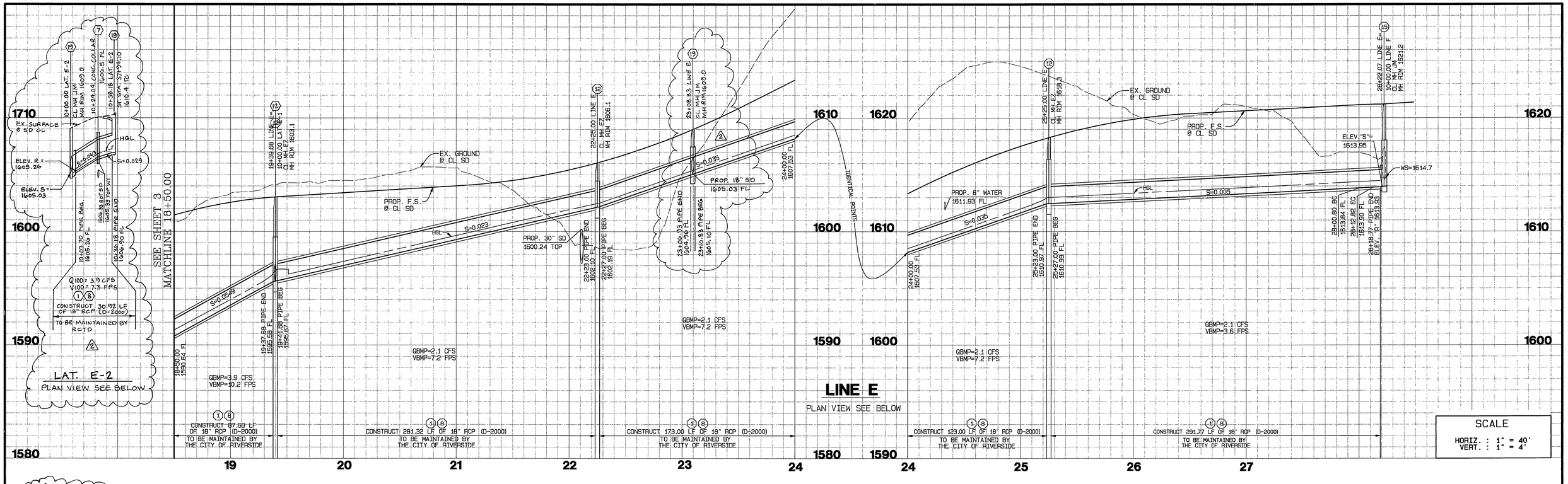
TRACT NO. 29596
LINE E
STA. FROM 10+22.97 TO 18+50.00

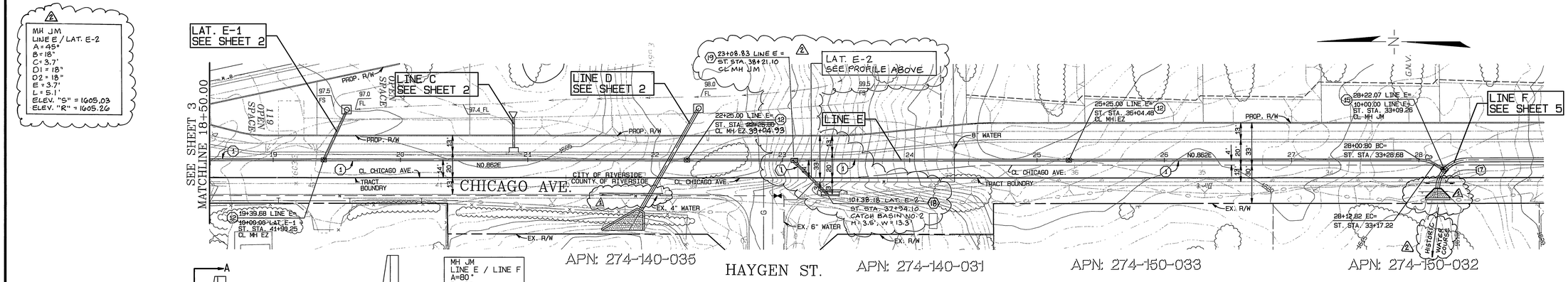
SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

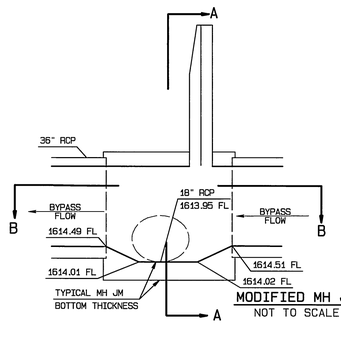
FILE NO. 2004-0008
DRAWING NUMBER
D-795
SHEET 3 OF 5
PW04-0525

TJR

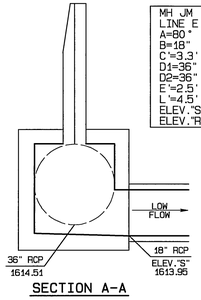
INDEXED 8-14-07 LH





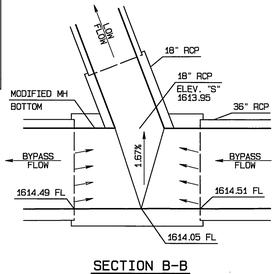


MODIFIED MH JM
NOT TO SCALE



SECTION A-A

ALL CONCRETE REINFORCEMENT PER CITY OF RIVERSIDE STANDARD NO. 432



SECTION B-B
MODIFIED MH JM BOTTOM

LINE E CURVE DATA

LINE	RADIUS	DELTA	LENGTH	TANGENT
C2	22.50'	30.626	12.03'	6.16'

CONSTRUCTION NOTES

(1) CONSTRUCT 18" RCP (D-2000)
(8) TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
(12) CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. NO. 431
(15) CONSTRUCT MODIFIED MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432 & DETAIL HEREON
(A) (17) CONSTRUCT GUARDRAIL PER CALTRANS STD. A77A
(7) CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424
(A) (18) CONSTRUCT CATCH BASIN NO. 2 PER COUNTY TRANSPORTATION STD. 302
(19) CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432

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

NOTE:
CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

CONTRCTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

MS 3983 I.P. 040150

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1·800 227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK
CITY OF RIVERSIDE BENCH MARK VB-12-2
A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 115 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.
ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45782 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY: Alan French 5-3-07
ALAN D. FRENCH, P.E. DATE
RECOMMENDED: 5-2-07
DATE

REGISTERED PROFESSIONAL ENGINEER JOHN T.N. McCLAFFERTY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070
PREPARED BY R.C.E. NO. C49405 DATE 4-25-07 EXP. DATE 9-30-08
W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	CO. APPR.	CITY APPR.	DATE
A	ADDED GUARDRAIL		RVZ	11/2/07
A	ADD LAT. E-2 PLAN & PROFILE, SHEET 4		RVZ	11/3/10

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY / BY / DATE / APPROVED BY
PRINCIPAL ENGINEER
TRAFFIC DIVISION
ENGINEERING MGR.
CITY ENGINEER
DATE 6/4/07

STORM DRAIN PLAN & PROFILE
TRACT NO. 29596
LINE E
STA. FROM 18+50.00 TO 28+18.77
SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

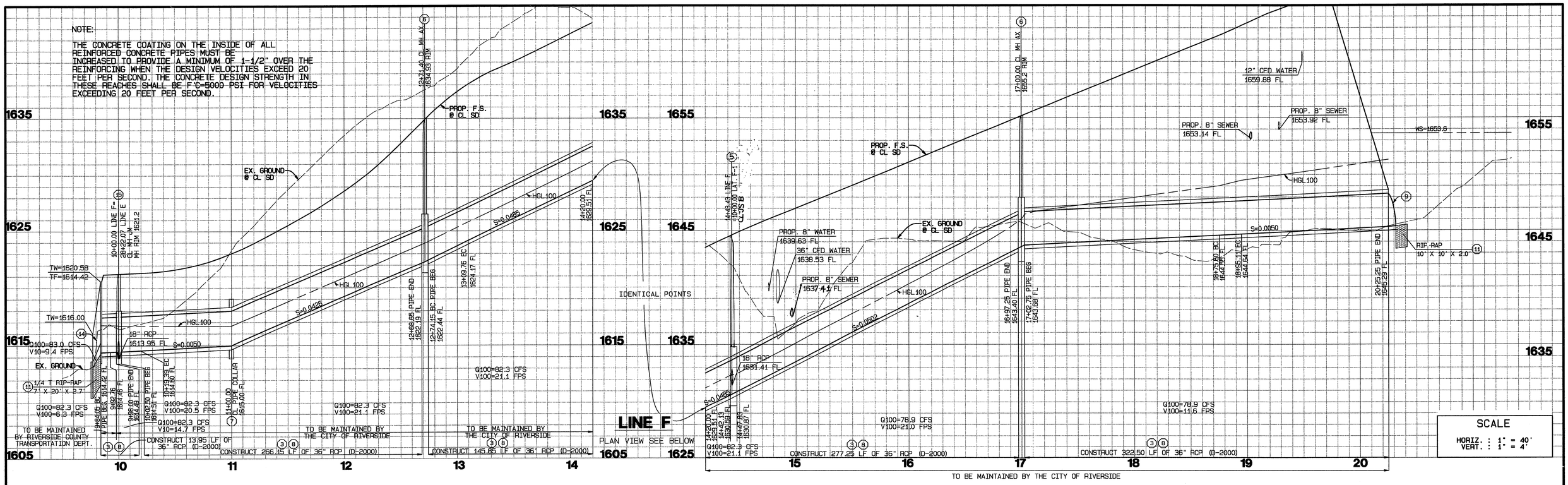
FILE NO. 2004-0008
DRAWING NUMBER **D-795**
SHEET 4 OF 5
PW04-0525

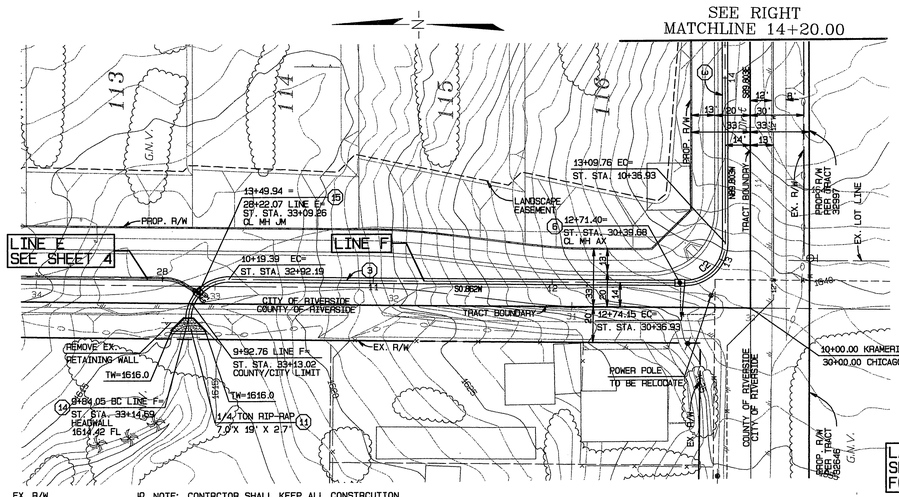
INDEXED 8-14-07

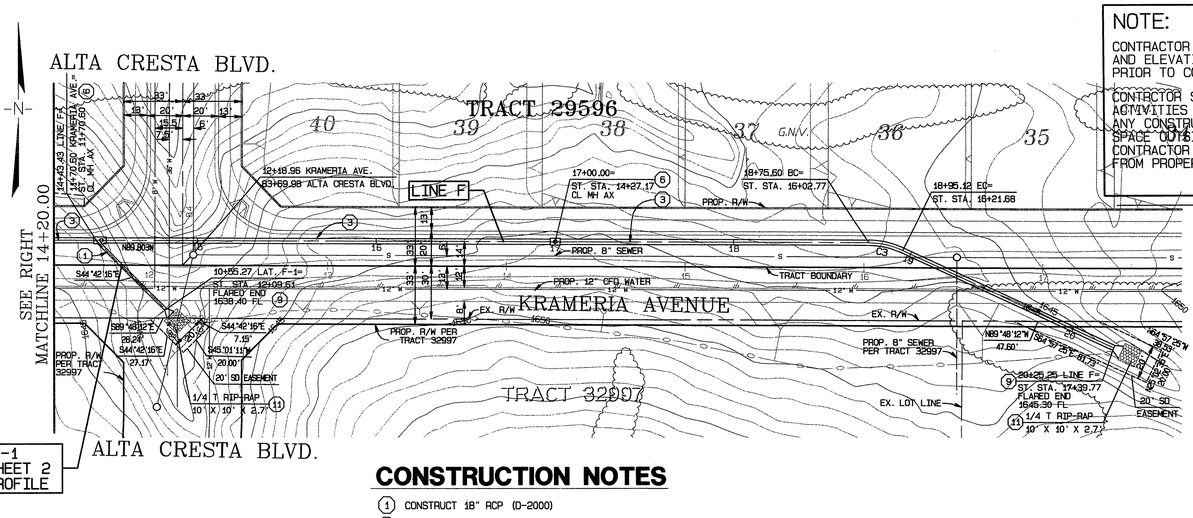
FILE: G:\2004\04-0008\04_0008.dwg PLOT DATE: 4/25/2007

NOTE:

THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND.



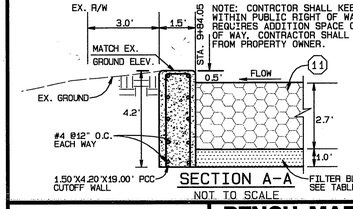




NOTE:

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

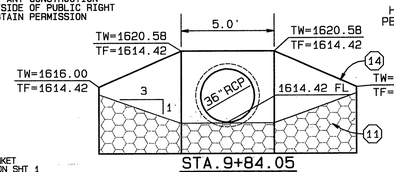
CONTRACTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.



SECTION A-A

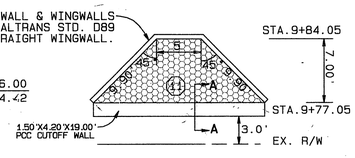
NOT TO SCALE

NOTE: CONTRCTOR SHALL KEEP ALL CONSTRCUTION WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY. CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.



STA.9+84.05

NOT TO SCALE



PLAN VIEW

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

CONSTRUCTION NOTES

1. CONSTRUCT 18" RCP (D-2000)
3. CONSTRUCT 36" RCP (D-1500)
5. CONSTRUCT JUNCTION STRUCTURE B PER CITY OF RIVERSIDE STD. DWG. NO. 421
6. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
8. TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
9. CONSTRUCT METAL FLARED END SECTION PER DETAIL ON SHEET 1
11. CONSTRUCT 1/4 TON ROCK RIP-RAP DIM. PER PLAN
14. CONSTRUCT CONCRETE HEADWALL PER CALTRANS STD DWG. D89
15. CONSTRUCT MODIFIED MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432 & DETAIL PER SHEET 4

LINE F CURVE DATA

LINE	RADIUS	DELTA	LENGTH	TANGENT
C1	22.50'	90.000	35.34'	22.50'
C2	22.50'	90.666	35.60'	22.76'
C3	45.00'	24.846	19.51'	9.91'

GRAPHIC SCALE 1"=40'

40 20 0 40 80 120

MS 3983 I.P. 040150

FILE: G:\2004\04-0008\04_0008.pro PLOT DATE: 4/25/2007

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 115 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45702 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
ALAN D. FRENCH, P.E. — DATE 5-3-07
RECOMMENDED: — DATE 5-2-07

REGISTERED PROFESSIONAL ENGINEER JULIA LIN McCRAFFET NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE, CA. 92506
(951) 686-1070
PREPARED BY — DATE 4-25-07
R.C.E. NO. C49405 EXP. DATE 9-30-08
W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	APPR.	DATE
	SUPERCEDED BY SH. 5A	BIZ	12/4/07

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
TRAFFIC DIVISION		
ENGINEERING MGR.		

APPROVED BY
CITY ENGINEER
DATE 6/4/07

STORM DRAIN PLAN & PROFILE

TRACT NO. 29596

LINE F

STA. FROM 9+84.05 TO 20+25.25

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

FILE NO. 2004-0008

DRAWING NUMBER **D-795**

SHEET 5 OF 5

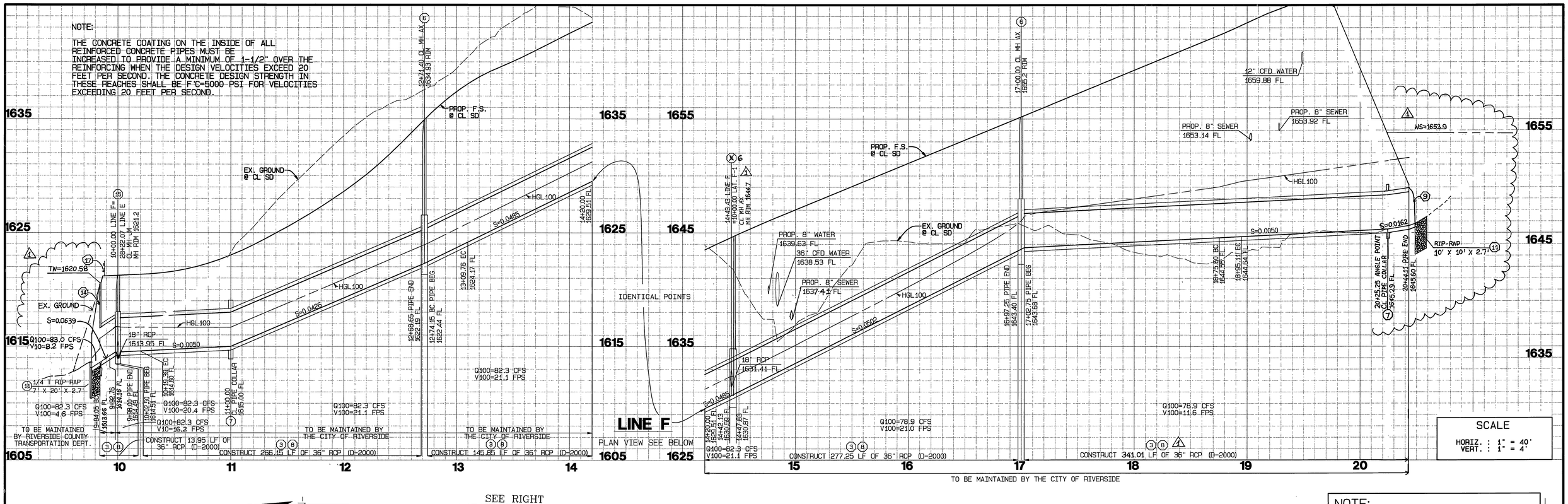
PW04-0525

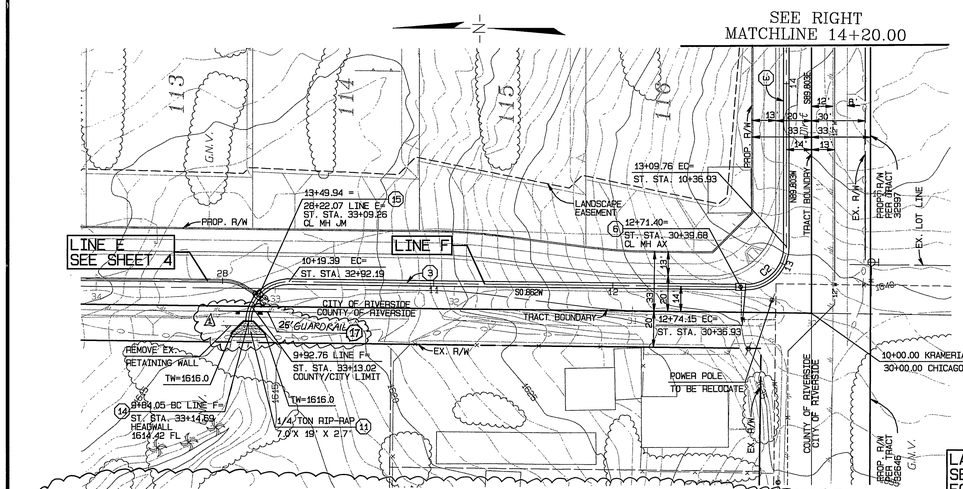
BIZ

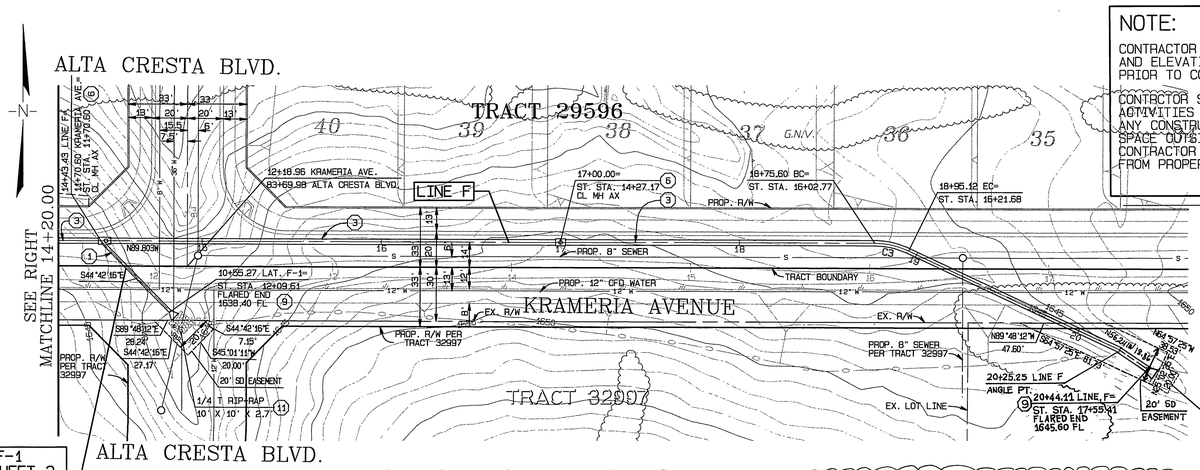
INDEXED 8-14-07 LH

NOTE:

THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND.



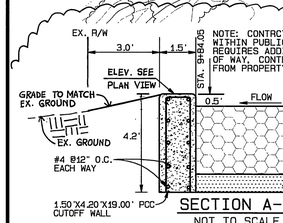




NOTE:

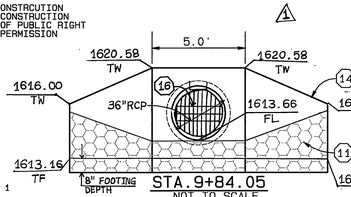
CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION

CONTRACTOR SHALL KEEP ALL CONSTRCUTION ACTIVITIES WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

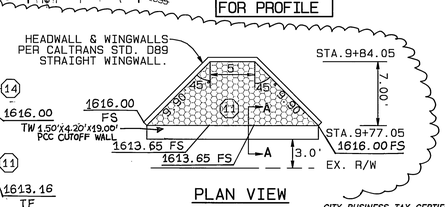


NOTE: CONTRCTOR SHALL KEEP ALL CONSTRCUTION WITHIN PUBLIC RIGHT OF WAY. ANY CONSTRUCTION REQUIRES ADDITION SPACE OUTSIDE OF PUBLIC RIGHT OF WAY, CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER.

SECTION A-A
NOT TO SCALE



STA.9+84.05
NOT TO SCALE



PLAN VIEW

CONSTRUCTION NOTES

1. CONSTRUCT 18" RCP (D-2000)
3. CONSTRUCT 36" RCP (D-1500)
5. CONSTRUCT JUNCTION STRUCTURE B PER CITY OF RIVERSIDE STD. DWG. NO. 421
6. CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. DWG. NO. 430
8. TRENCH BACKFILL PER CITY OF RIV. STD. 453 & PIPE BEDDING PER CITY STD. 452
9. CONSTRUCT METAL FLARED END SECTION PER DETAIL ON SHEET 1
11. CONSTRUCT 1/4 TON ROCK RIP-RAP DIM. PER PLAN
14. CONSTRUCT CONCRETE HEADWALL PER CALTRANS STD DWG. D89
15. CONSTRUCT MODIFIED MANHOLE JM PER CITY OF RIVERSIDE STD. DWG. NO. 432 & DETAIL PER SHEET 4
7. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424
16. CONSTRUCT SECURITY GATE PER DETAIL ON SHEET 3.
17. CONSTRUCT GUARDRAIL PER CALTRANS STD. A 77A

LINE F CURVE DATA

LINE	RADIUS	DELTA	LENGTH	TANGENT
C1	22.50'	90.000	35.34'	22.50'
C2	22.50'	90.666	35.60'	22.76'
C3	45.00'	24.846	19.51'	9.91'

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

CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-07

MS 3983 I.P. 040150

FILE: G:\2004\04-0008\04_0008.pro PLOT DATE: 4/25/2007

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1·800
227·2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

CITY OF RIVERSIDE BENCH MARK VB-12-2

A BRASS DISK MARKED "VB-12" SET IN A 1 X 3 X 7 FOOT GRANITE BOULDER, 2 FEET EAST OF A MARKER POST, 115 FEET NORTH OF VAN BUREN BLVD., 92 FEET EAST OF CHICAGO AVENUE, AT THE SOUTHEAST CORNER OF VAN BUREN BLVD. AND CHICAGO AVENUE IN THE WOODCREST AREA.

ELEVATION: 1582.814 DATE:1971

REGISTERED PROFESSIONAL ENGINEER ALAN D. FRENCH NO. 45792 EXP. 12-31-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
ALAN D. FRENCH, P.E. 5-3-07 DATE
RECOMMENDED: 5-2-07 DATE

REGISTERED PROFESSIONAL ENGINEER HUA LIN McCAFFREY NO. C49405 EXP. 9-30-08 CIVIL STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
CIVIL ENGINEERS
3788 McCRAY ST.
RIVERSIDE CA. 92506
(951) 686-1070
PREPARED BY R.C.E. NO. C49405 DATE 4-25-07 EXP. DATE 9-30-08
W.O. 04-0008 FOR: CENTEX HOMES

MARK	REVISIONS	CO. APPR.	CITY APPR.	DATE
1	REVISED LINE F, ADDED GUARDRAIL			6/4/07

DESIGNED BY: S. L. CHECKED BY: L. M.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/4/07
TRAFFIC DIVISION		6-15-07
ENGINEERING MGR.		

APPROVED BY
CITY ENGINEER
DATE 6/4/07

STORM DRAIN PLAN & PROFILE

TRACT NO. 29596
LINE F
STA. FROM 9+84.05 TO 20+25.25

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

FILE NO. 2004-0008
DRAWING NUMBER
D-795
SHEET 5A OF 5
PW04-0525

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