RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE — INCORPORATED 1883

PUBLIC WORKS DEPARTMENT

CALIFORNIA - VAN BUREN STORM DRAIN

PROJECT LENGTH:

CONSTRUCTION LEGEND

(200) CONST. CURB & GUTTER PER STD. DWG. NO. 200, 6" CURB FACE.

(405) CONST. CATCH BASIN PER STD. DWG NO. 405.

(407) CONST. CATCH BASIN PER STD. DWG NO. 407.

(422) CONST. JUNCTION STRUCTURE PER STD. DWG. NO. 422.

(431) CONST. MANHOLE PER STD. DWG. NO. 431.

(432) CONST. MANHOLE PER STD. DWG. NO. 432.

(665) INSTALL TYPE "L" MARKER PER STD. DWG. NO. 665.

(606) INSTALL NO. 5 PULL BOX PER STD. DWG. NO. 606.

CONSTRUCTION NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1976 EDITION AND CITY OF RIVERSIDE STANDARD DRAWINGS.

PROJECT LOCATION PLAN

SCALE: 1" = 800'

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER	8" S	TELEPHONE CONDUIT	T
WATER LINE	6" W	ELECTRICAL CONDUIT	E
STORM DRAIN	24" D	STREET LIGHTING	SL
GAS LINE	3" G	TRAFFIC SIGNAL	SIG
IRRIGATION LINE	20" IRR	FIRE ALARM	F

EXISTING TOPOGRAPHY:

- BLOCK WALL
- BOARD FENCE
- WIRE FENCE
- CHAIN LINK FENCE
- TOP OF SLOPE
- TOE OF SLOPE
- DIRECTION OF FLOW
- SANITARY SEWER M.H.
- SANITARY SEWER CLEANOUT
- STORM DRAIN M.H.
- IRRIGATION WEIR
- WATER M.H.
- GAS M.H.
- ELECTRIC M.H.
- TELEPHONE M.H. OR VAULT
- WATER METER
- FIRE HYDRANT
- SPRINKLER HEAD
- VALVE
- AIR VALVE
- AIR VENT
- POLE & GUY ANCHOR
- ELECTRIC POLE
- TELEPHONE POLE
- JOINT USE POLE
- PULL BOX
- TRAFFIC SIGN
- PARKING METER
- FIRE ALARM BOX
- STREET NAME SIGN
- GAS METER
- MAIL BOX
- FAUCET
- TELEPHONE RISER
- WHEEL STOP
- A.C. BERM
- STEEL POST
- WOOD POST
- PEDESTRIAN PUSH BUTTON
- RAILROAD TRACKS
- RAILROAD SIGN
- RAILROAD SIGNAL
- STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
- STREET LIGHT (UPRIGHT)
- STREET LIGHT
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL ON MAST ARM
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL PRESSURE DETECTOR
- TRAFFIC SIGNAL LOOP DETECTOR
- CONCRETE
- ASPHALT
- EP (asphalt) (dirt) EP EDGE OF PAVEMENT
- BUILDING
- UNDERGROUND STRUCTURE
- OVERHANGING STRUCTURE
- CITRUS TREE
- OR DECIDUOUS TREE
- OR PALM TREE
- OR SHRUBBERY
- TREE STUMP
- EVERGREEN TREE

*AS BUILT 9-78 KPT

INDEXED R.I.R

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT			CALIFORNIA - VAN BUREN STORM DRAIN	ACCOUNT NO. 09-573-405
APPROVED BY		APPROVED BY	ANZA CHANNEL TO ACACIA STREET	D-315
PRINCIPAL ENGINEER	11/16	PUBLIC WORKS DIRECTOR		SHEET 1 OF 5
PARK DEPARTMENT		DATE 11-17-77	DESIGNED BY ____ DRAWN BY KPT CHECKED BY ____	FILE NO.
TRAFFIC DIVISION				
CHIEF P. W. ENGINEER	11-17			

EXISTING GROUND OVER STORM DRAIN

HGL

1250-D

1000-D

60 c/s

81 c/s

INSTALL 42" RCP

S=0.0264

INSTALL 36" RCP 1000-D S=0.004

2" DESIGN CLEARANCE

33" SEWER

0+63± REMOVE SEAL CONNECT TO EXIST. RCP

730.34 FL. VERIFY

CONST. CONC. COLLAR PER STD. DWG. M-803

3+52

WATER

6" COVER

TOP OF PIPE

16" WATER

4+50 MATCH LINE

36.86 F.L.

4.50 G.B.

35.09 F.L.

32.97 F.L. 42" RCP

33.47 F.L. 36" RCP

45

40

35

30

1

2

3

4

BENCH MARK F3-D ELEV. 758.32
P.K. N'LY. CURB RETURN AT VAN BUREN & CALIFORNIA. REF. C.R. PRECISE LEVEL NET. F.B. 1000/32

CURVE DATA				
NO.	R	Δ	L	T
①	22.5'	*32°22'	*12.71'	*6.58'
②	90'	17°16'28"	27.19'	13.70'
③	452'	5°23'31"	42.54'	21.28'

* EXACT CURVE DATA, B.C. & E.C. TO BE DETERMINED AFTER EXISTING STUB HAS BEEN EXPOSED.

A=30", B=30", C=7.0', D₁=36" D₂=42"
E=6.0', L=6.0', R=38.40, S=38.48,
30" STUB, 4' LONG, BEVELED UPPER END.

R/W

3+52

40'

ANZA CHANNEL

20' S.D. EASEMENT

RCFCD R/W

FUTURE E. R=1000'

VAN BUREN BLVD.

6"W ABAN'D

20"W

20"W Steel

8"G

8"SS

8"S

12"S

18"S

21"S

E.C. 2+11.24

B.C. 1+76.38

CURB & GUTTER NOT TO BE REPLACED

*B.C. 0+78±

E.C.

87.50

FUTURE B.C. 0+08.5

CONST. BRICK BULKHEAD

B.C. 4+00

CHALLEN AVE.

R=90'

16"W TERRA

E.C. 4+42.54

4+50 MATCH LINE

*AS BUILT 9-78 KPT

MARK	REVISIONS	APPR.	DATE

DESIGNED BY Hawk DRAWN BY KPT CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	
PRINCIPAL ENGINEER	
PARK DEPARTMENT	
TRAFFIC DIVISION	
CHIEF P. W. ENGINEER	

APPROVED BY
PUBLIC WORKS DIRECTOR

DATE 11-17-77

CALIFORNIA - VAN BUREN STORM DRAIN

ANZA CHANNEL TO 50' SOUTH OF CHALLEN

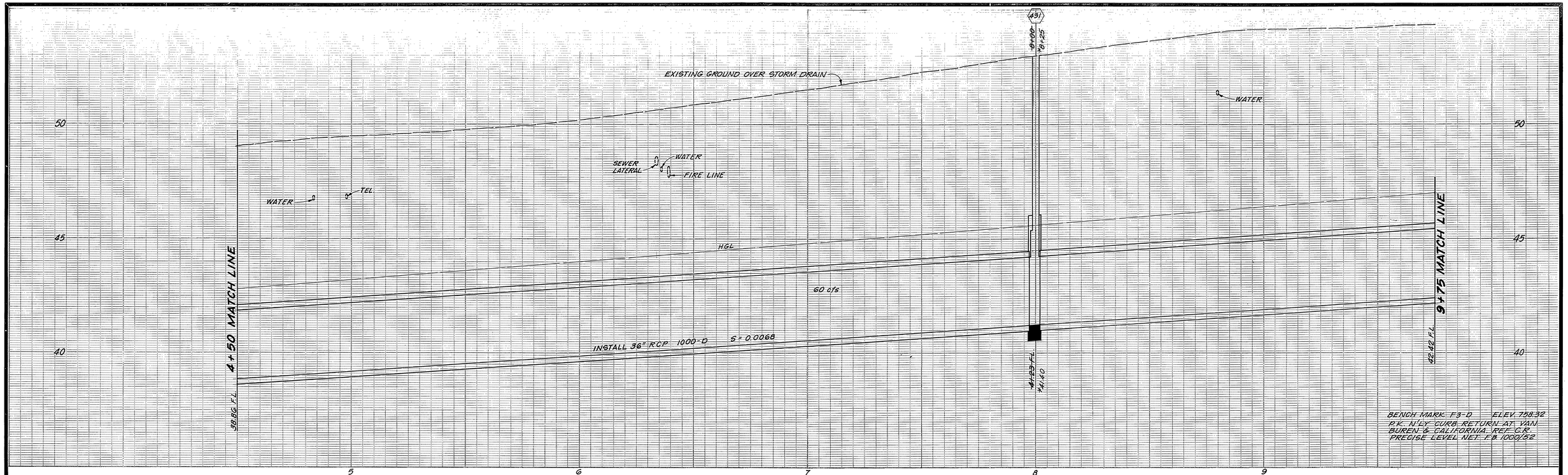
HORIZ. SCALE: 1" - 20' VERT. SCALE: 1" - 2'

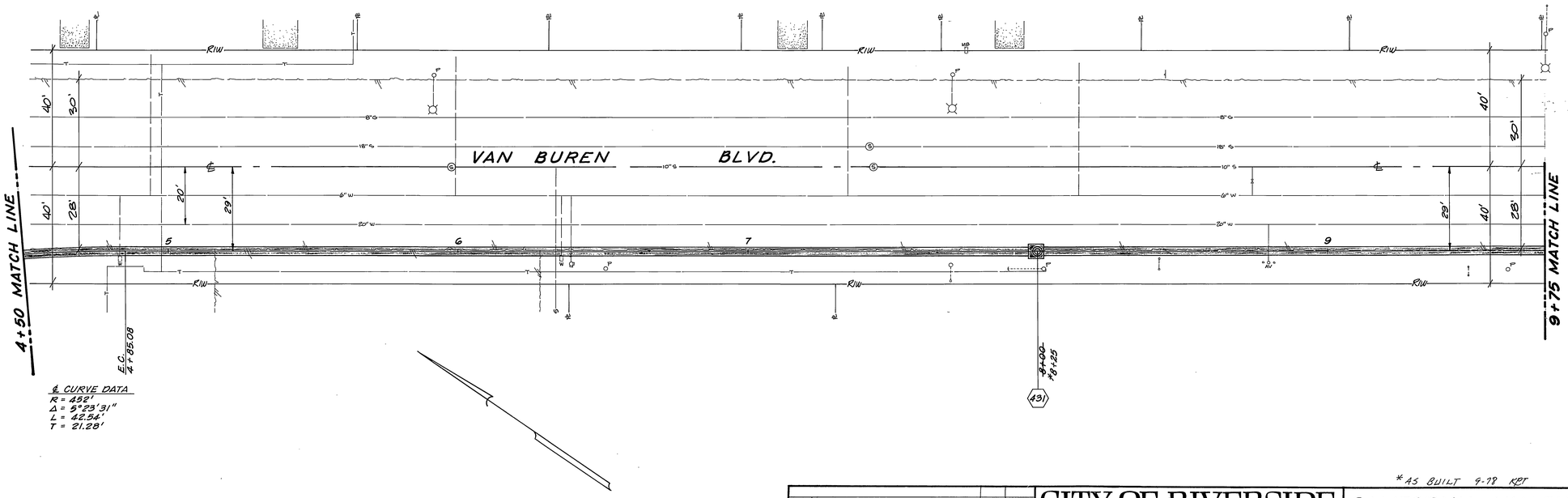
ACCOUNT NO. 09-573-405

D-315

SHEET 2 OF 5

FILE NO.





℄ CURVE DATA
R = 452'
Δ = 5°23'31"
L = 42.54'
T = 21.28'

* AS BUILT 9-78 KPT

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER		11/16
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER		11-17

APPROVED BY _____ PUBLIC WORKS DIRECTOR

DATE 11-17-77

MARK	REVISIONS	APPR.	DATE

DESIGNED BY Vans DRAWN BY KPT CHECKED BY _____

CALIFORNIA - VAN BUREN STORM DRAIN

50' SOUTH OF CHALLEN TO 450' NORTH OF CALIFORNIA

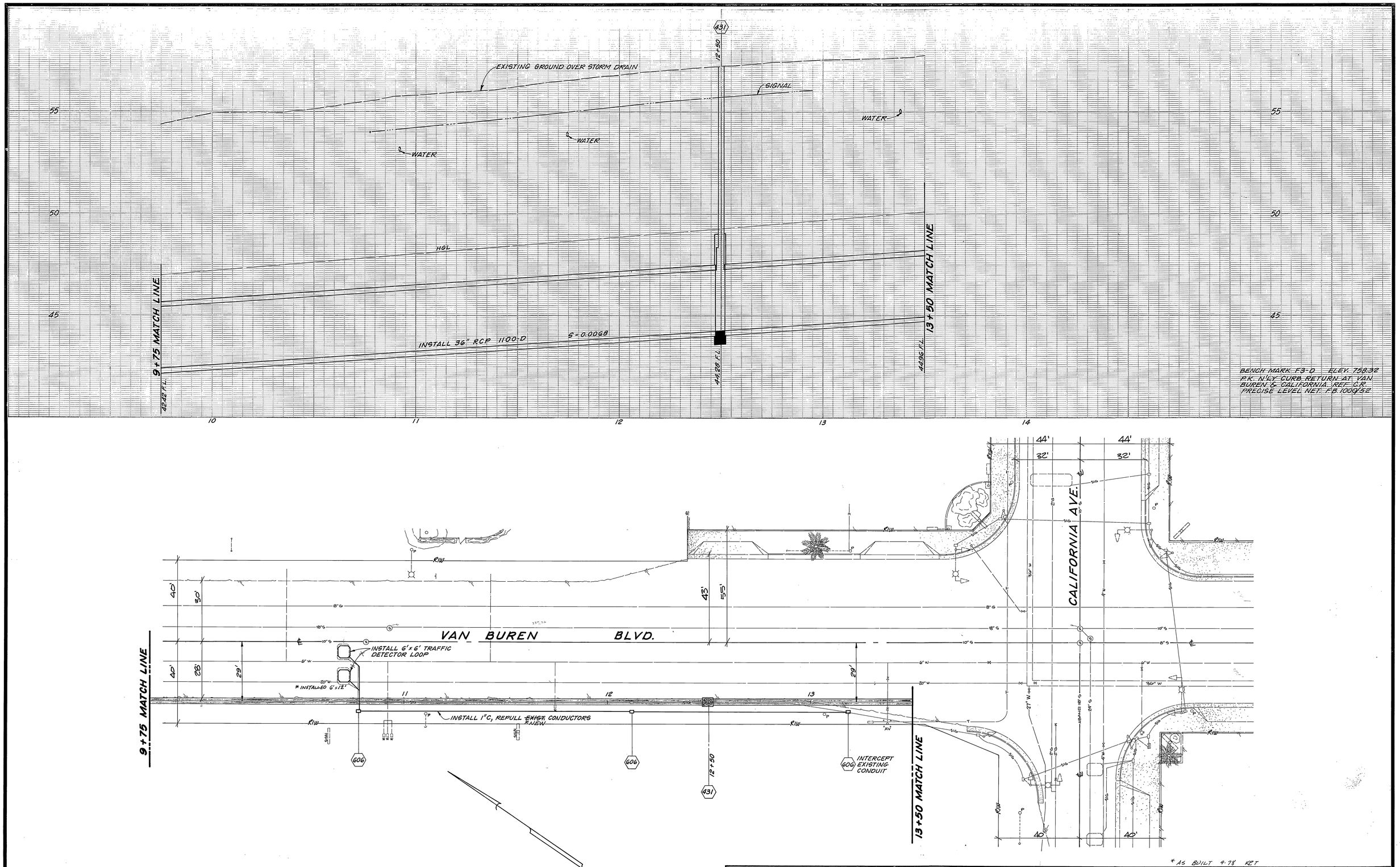
HORIZ. SCALE: 1" - 20' VERT. SCALE: 1" - 2'

ACCOUNT NO. 09-573-405

D-315

SHEET 3 OF 5

FILE NO.



* AS BUILT 9-78 KPT

MARK	REVISIONS	APPR.	DATE

DESIGNED BY [signature] DRAWN BY KPT CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER	[signature]	11/16
PARK DEPARTMENT		
TRAFFIC DIVISION	[signature]	10/31/77
CHIEF P. W. ENGINEER	[signature]	11/17

APPROVED BY [signature]
PUBLIC WORKS DIRECTOR
DATE 11-17-77

CALIFORNIA - VAN BUREN STORM DRAIN

450' NORTH OF CALIFORNIA TO CALIFORNIA

HORIZ. SCALE: 1" - 20' VERT. SCALE: 1" - 2'

ACCOUNT NO. 09-573-405

D-315

SHEET 4 OF 5

FILE NO.

APPROXIMATE GROUND PROFILE OVER STORM DRAIN

EXISTING GROUND @ ℄ CALIFORNIA AVENUE

TEL.

2" GAS

SIGNAL

27" WATER

HGL

800-D

1100-D

INSTALL 36" RCP S=0.0065

S=0.0068

S=0.022

24" SEWER

(454) CASE E

13+50 MATCH LINE

44.96 F.L.

45.50 F.L.

47.50 F.L.

48.64 F.L.

(422) 16+75 MEET EXIST. BEGIN A.C. OVERLAY

17+37.87 ℄ ACACIA STREET

17+65 MEET EXIST.

18+20 MEET EXIST.

55.40

55.39

55.33

55.33

A.C. OVERLAY

55.60

GAS EL. 52.98

2" GAS EL. 52.60

WATER

INSTALL 4' STUB 27" RCP CLOSE WITH BRICK BULKHEAD

50.02 F.L.

49.32 F.L.

0+59.81 MEET EXIST.

55.80

EXIST. GROUND @ ℄ ACACIA ST.

E.P.

0+00 ℄ CALIF. AVE.

55.39

0+12 G.B.

GRADE

1%

1%

OVERLAY CRUSS GUTTER

SW. CURB RETURN L = 54.96'

(407)

5'

EXIST. T.C. ACACIA ST.

E.C.R. 0+54.97

55.62 T.C.

55.68 T.C.

5.4Δ

55.62 T.C.

A/2

55.56 T.C.

Δ/4

55.55 T.C.

B.C.R. 17+90.85

MEET EXIST. 18+10.35

0.9%

EXIST. T.C.-CALIFORNIA AVE.

0.71%

4" WATER

HGL

49.72 F.L.

49.88 F.L.

S=0.005

INSTALL 29 L.F. 24" RCP, 1000-D

24" SEWER

SE CURB RETURN L = 55.76'

(405)

6.9'

55.68 T.C.

B.C.R.

55.45 T.C.

℄ C.B.

55.28 T.C.

5.4Δ

55.62 T.C.

A/2

55.76 T.C.

Δ/4

55.90 T.C.

E.C.R. 0+59.81

FUTURE T.C. CALIFORNIA AVE.

0.76%

EXIST. T.C. ACACIA ST.

1%

4" WATER

HGL

48.90 F.L.

49.23 F.L.

S=0.01

INSTALL 29 L.F. 15" RCP, 1000-D.

24" SEWER

BENCH MARK F3-D ELEV. 758.32
P.K. NAIL CURB RETURN AT VAN BUREN & CALIFORNIA REF. C.F. PRECISE LEVEL NGT F.B. 1000/52

CURB RETURN
R = 35'
Δ = 91°17'38"
L = 55.76'
T = 35.80'

CURB RETURN
R = 35'
Δ = 89°58'30"
L = 54.96'
T = 34.98'

VAN BUREN BLVD.

50' 44'

CALIFORNIA AVE. 205.5'

ACACIA ST.

33' 33'

18' 18'

REMOVE PAVEMENT & INSTALL 4" A.C. OVER COMPACTED NATIVE SOIL.

E.C.R. 0+59.81

E.C.R. 0+54.97

INTERCEPT EXISTING CONDUIT

(606)

(665)

(409)

(200)

(407) L = 14' V = 5.7'

B.C.R. 17+90.85

FUTURE CURB & GUTTER

5:1

A.C. OVERLAY

0+00 ACACIA ST.

ADJ. MH TO GRADE

43 cfs

25 cfs

16+80

16+75

INSTALL 4' STUB 27" RCP. CLOSE WITH BRICK BULKHEAD

ABAN'D MH

54.53'

(422) AN = 60°, AS = 45°, B = 15"
CN = 3.50', CS = 4.20', D = 36"
E = 3.85', L = 5.00'

(432) A = 49°, B = 24", C = 3.70'
D1 = 27", D2 = 36", E = 3.50'
L = 5.00'

FUTURE ℄ CALIFORNIA AVE.

17+65

ABAN'D 18" RCP

ABAN'D 18" S

24" S

10" S

4" W

27" W

36" W

2" G

18" S

℄ CURVE DATA
R = 75'
Δ = 90°01'30"
L = 117.78'
T = 74.97'

E.C. 14+71.87

B.C. 13+54.09

13+50 MATCH LINE

55' 40'

*AS BUILT 9-78 KPT

MARK	REVISIONS	APPR.	DATE

DESIGNED BY Jaw DRAWN BY KPT CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY PRINCIPAL ENGINEER		11/6
PARK DEPARTMENT		11/6
TRAFFIC DIVISION	RLJ	10/31/77
CHIEF P. W. ENGINEER		11-7

APPROVED BY (PUBLIC WORKS DIRECTOR)

DATE 11-17-77

CALIFORNIA-VAN BUREN STORM DRAIN

VAN BUREN TO ACACIA

HORIZ. SCALE: 1" - 20' VERT. SCALE: 1" - 2'

ACCOUNT NO. 09-573-405

D-315

SHEET 5 OF 5

FILE NO.