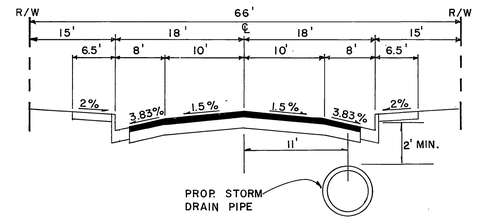
TRACT 22275

INDEX MAP

1"=300'

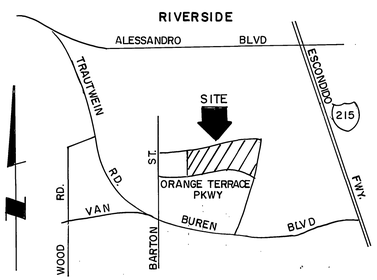


TYPICAL STREET SECTION

N.T.S.

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 the City of Riverside Dept. of Public Works, Standard drawings, Standard Drawing No. 10, 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. Notice to contractor. The existence and location of any underground utility pipes or structures shown on these plans were obtained by a search of the 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 and any other lines not of record or not shown on these plans.
5. 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.
6. The contractor shall call in a locations request to UNDERGROUND SERVICE ALERT (USA), Phone No. 1-800-422-4133, 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.
7. 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.
8. All embankment fill shall be compacted to minimum of 90% maximum dry density and shall be of an approved quality.
9. Any traffic control striping obliterated and/or badly worn during construction shall be restored by the contractor within five (5) days after notification from the City Inspector.
10. Before the Rip-Rap is accepted, as placed, at the outlet of any drainage structure, it shall be tested under flows as close as possible to design conditions with water obtained from fire hydrants in the immediate area.
11. All flagged elevations shall be staked in the field by the private engineer.
12. Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.
13. All C.I.P.P. shall have a minimum strength of 3000 psi.



VICINITY MAP

N.T.S.

CONSTRUCTION NOTES / QUANTITIES

1	CONSTRUCT M.H. "AX" PER CITY OF RIV. STD.NO. 430	2 EA.
2	CONSTRUCT M.H. "JM" PER CITY OF RIV. STD.NO.432	1 EA.
3	CONSTRUCT J.S. "B" PER CITY OF RIV. STD.NO.421	2 EA.
4	CONSTRUCT 1/4 TON RIP RAP PER PLAN & PROFILE (RIP-RAP TO BE GROUTED)	65 TONS
5	CONSTRUCT J.S. 4 PER CITY OF RIV. STD.NO.423	5 EA.
6	CONSTRUCT C.B. PER CITY OF RIV. STD.NO.405	9 EA.
7	CONSTRUCT 15" R.C.P. (D-2000)	148 L.F.
8	CONSTRUCT 18" R.C.P. (D-2000)	75 L.F.
9	CONSTRUCT 30" R.C.P. (D-1350) OR C.I.P.P. (fc' = 3000 psi)	131 L.F.
10	CONSTRUCT CONCRETE HEADWALL PER DETAIL SHOWN ON SHT. 3	2 EA.
11	CONSTRUCT 42" R.C.P. (D-1100) OR C.I.P.P. (fc'=3000psi)	1307 L.F.
12	CONSTRUCT 54" R.C.P. (D-1000) OR C.I.P.P. (fc'=3000psi)	432 L.F.
13	CONSTRUCT 24" R.C.P. (D-2000)	29 L.F.
14	PLACE 50' x 15' x 3' DEEP OF 1/4 TON RIP-RAP	120 TONS

REGISTERED PROFESSIONAL ENGINEER JOHN W. CANTY No. 17550 EXP. 12/31/91 CIVIL STATE OF CALIFORNIA

AS-BUILT PLAN

J.F. DAVIDSON ASSOC., INC

Underground Service Alert

CALL BEFORE YOU DIG

Call: TOLL FREE 1-800 422-4133

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 JOHN W. CANTY No. 17550 Exp. 6/30/89 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Canty

REGISTERED CIVIL ENGINEER NO. 17550

EXPIRATION DATE: 6-30-89 DATE: 6/10/88

APPROVED BY:

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082

73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS SHOWN

DATE: MAR 1988

BENCH MARK: V.B. 10-64 ELEV. 1700.670 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-64, 0.6 MI. E. ON VAN BUREN BLVD. FROM CL INT. OF VAN BUREN & WOOD RD., 295' N. OF VAN BUREN @ THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	APPR	DATE
1	AS-BUILT PLAN		7/11/90

DESIGNED BY N.M. DRAWN BY T.F.E. CHECKED BY N.M.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

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

APPROVED BY: Barry Bal
DIRECTOR OF PUBLIC WORKS

DATE 1/17/89

TR22275
STORM DRAIN PLANS

TITLE SHEET

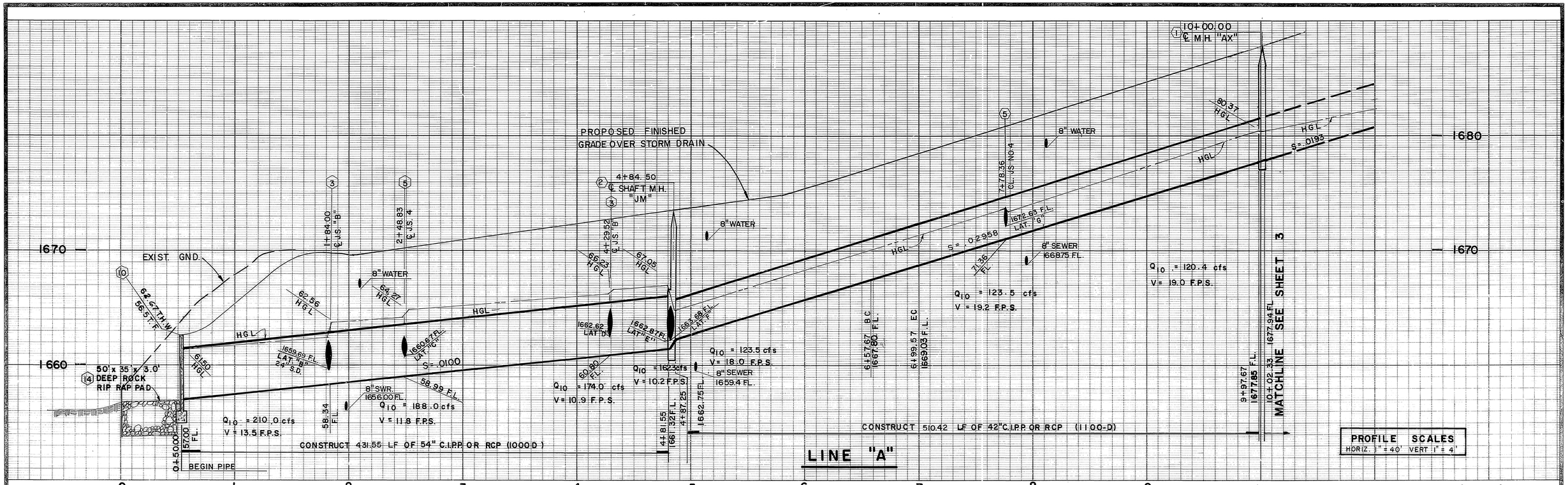
HORIZ. SCALE: 1" AS SHOWN VERT. SCALE: 1" = 4'

PROJECT NO. D-559

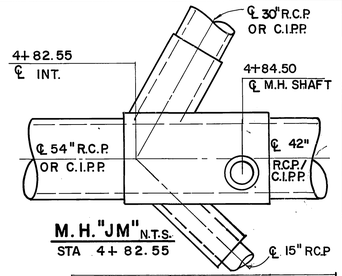
SHEET 1 OF 4

FILE NO.: 8710243 (M)

INDEXED 4-14-89 HH

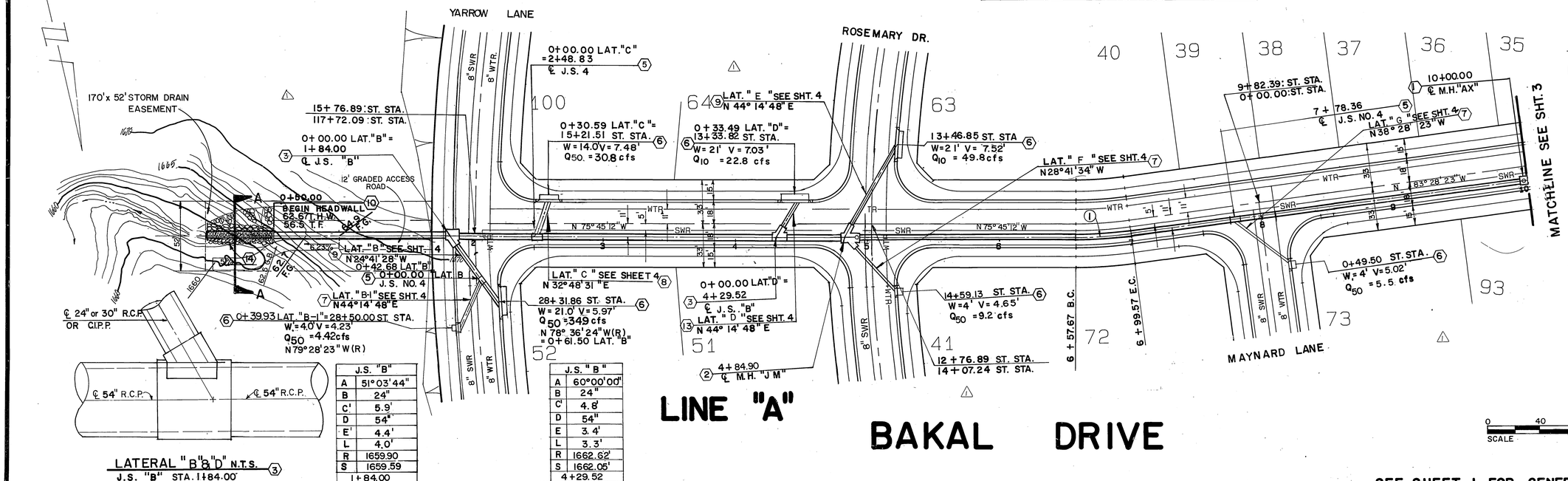


STORM DRAIN CURVE DATA				
NO.	Δ	R	L	T
1	07°43' 11"	311.00'	41.90'	20.98'



M.H. "JM" N.T.S.
STA 4+82.55

	LEFT	RIGHT
A	60° 00' 00"	47° 03' 38"
B	30"	15"
C'	5.5'	6.1'
D1	42"	42"
D2	54"	54"
E'	4.7	5.2'
L'	5.7'	6.2'
R	1662.87	1662.95
S	1662.57	1663.68
M.H. "JM"		



LATERAL "B", "B-1", "D" N.T.S.
J.S. "B" STA. 1+84.00
STA. 4+29.52

J.S. "B"	
A	51° 03' 44"
B	24"
C'	5.9'
D	54"
E'	4.4'
L	4.0'
R	1659.90
S	1659.59
1+84.00	

J.S. "B"	
A	60° 00' 00"
B	24"
C'	4.8'
D	54"
E	3.4'
L	3.3'
R	1662.62'
S	1662.05'
4+29.52	

SEE SHEET 1 FOR GENERAL & CONSTRUCTION NOTES

Underground Service Alert
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REGISTERED PROFESSIONAL ENGINEER JOHN W. CANTY No. 17550 Exp. 6/30/89 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Canty
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE: 6-30-89 DATE: 6/10/88
APPROVED BY:

SCALE: AS SHOWN
DATE: MAR 1988

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0644, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK: V.B. 10-64 ELEV. 1700.670 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-64, U.S.G.H.E. ON VAN BUREN BLVD. FROM CL INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	APPR.	DATE
1	AS-BUILT PLAN		1/17/89

DESIGNED BY N.M. DRAWN BY T.F.E. CHECKED BY N.M.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

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

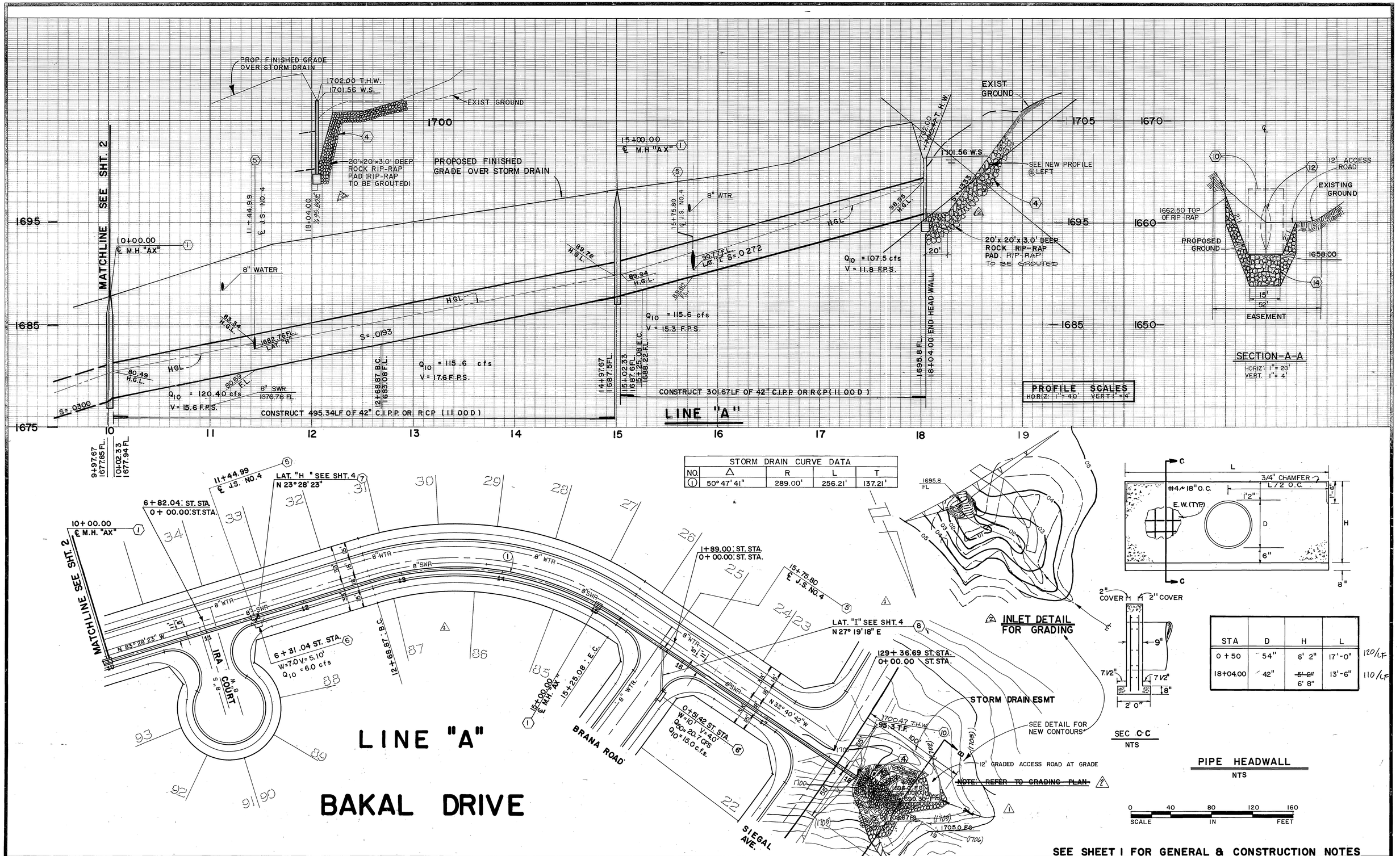
APPROVED BY Dave Bel
DIRECTOR OF PUBLIC WORKS
DATE 1/17/89

TR22275
STORM DRAIN PLANS
LINE "A"
BAKAL DRIVE

HORIZ. SCALE: 1" AS SHOWN VERT. SCALE: 1" = 4'

PROJECT NO. D-559
SHEET 2 OF 4
FILE NO.: 8710243 (M)

INDEXED 4-14-89



STORM DRAIN CURVE DATA				
NO.	Δ	R	L	T
1	50° 47' 41"	289.00'	256.21'	137.21'

STA	D	H	L	
0 + 50	54"	6' 2"	17'-0"	120/LF
18+04.00	42"	~~5' 2"~~ 6' 8"	13'-6"	110/LF

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REGISTERED PROFESSIONAL ENGINEER JOHN W. CARTER No. 17550 Exp. 6/30/89 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Carter
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE: 6-30-89 DATE: 6/10/88
APPROVED BY:

SCALE: AS SHOWN
DATE: MAR 1988

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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BENCH MARK: V.B. #0-84 ELEV. 1700.670 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-84, 0.8 MI. E. ON VAN BUREN BLVD. FROM CL. INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15"x18" BOULDER.

MARK	REVISIONS	APPR.	DATE
3	AS-BUILT PLAN		
2	REVISED ENTRANCE TO PIPE AS SHOWN	WW	1-17-89
1	REVISED ENTRANCE TO PIPE AS SHOWN	WW	1-5-89

DESIGNED BY N. M. DRAWN BY T.F.E. CHECKED BY N. M.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.	WW	1-17
	WW	1/17/89

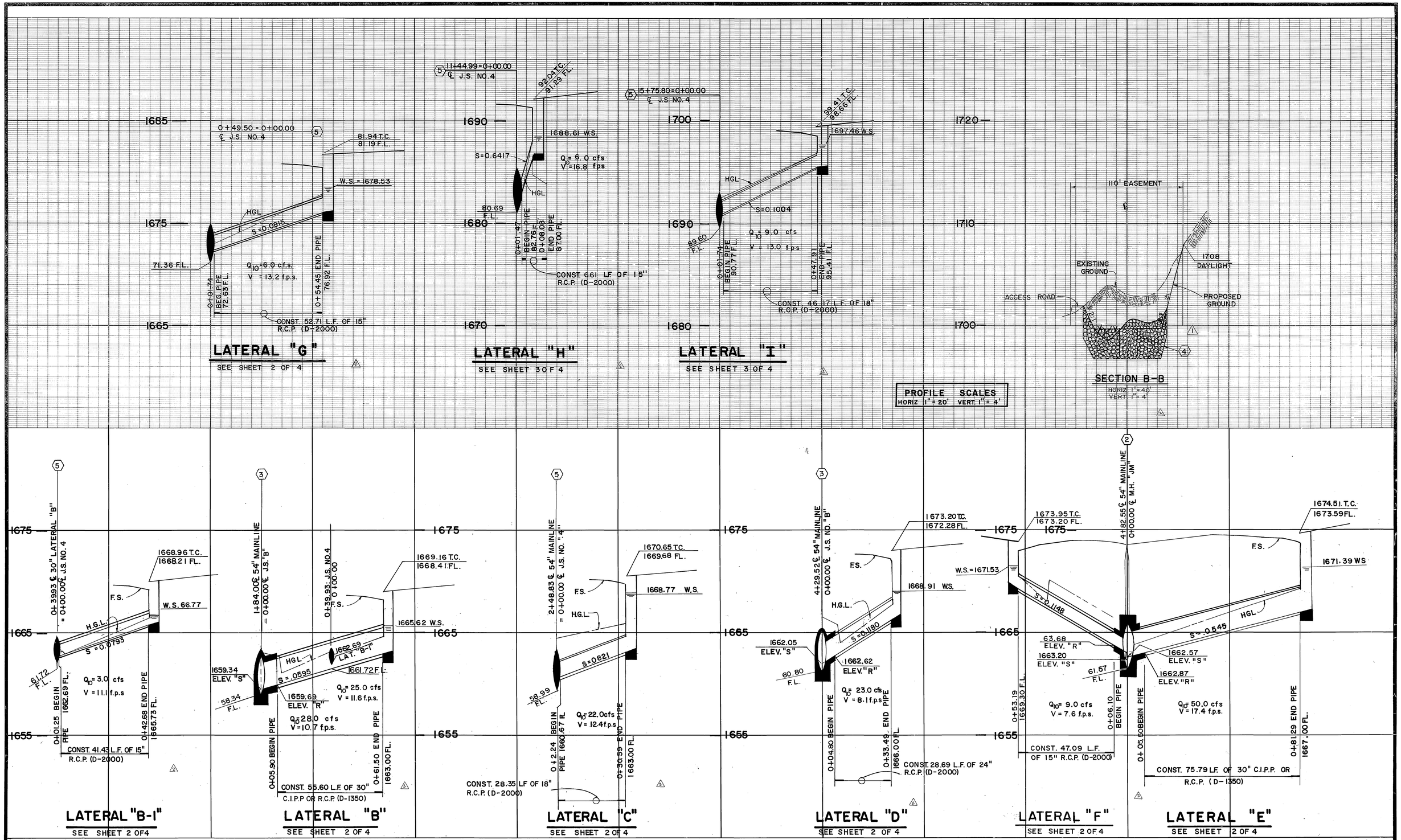
APPROVED BY: Barry Foster
DIRECTOR OF PUBLIC WORKS
DATE 1/17/89

TR22275
STORM DRAIN PLANS
LINE "A"
BAKAL DRIVE

HORIZ. SCALE: 1" AS SHOWN VERT. SCALE: 1" AS SHOWN

PROJECT NO. D-559
SHEET 3 OF 4
FILE NO.: 8710243 (M)

INDEXED 4-14-89



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PREPARED UNDER THE DIRECTION OF: John W. Canty
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE: 6-30-89 DATE: 6/10/88
APPROVED BY:

J.F. Davidson Associates, Inc.
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MARK	REVISIONS	APPR.	DATE
2	AS-BUILT PLAN		7/19/89
1	REVISED SECTION B-B; SEE SHEET 3		1/4/89

DESIGNED BY N.M. DRAWN BY T.F.E. CHECKED BY N.M.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		1-17

APPROVED BY: Danny Bell
DIRECTOR OF PUBLIC WORKS
DATE 1/17/89

TR22275
STORM DRAIN PLANS
LATERALS

HORIZ. SCALE: 1" AS SHOWN VERT. SCALE: 1" AS SHOWN

PROJECT NO. D-559
SHEET 4 OF 4
FILE NO.: 8710243 (M)

INDEXED 4-14-89