CANYON SPRINGS ASSESSMENT DISTRICT
OFF-SITE IMPROVEMENTS
DAY STREET ON-RAMP TO WEST BOUND HIGHWAY 60 AND ~~CONCRETE V-DITCH~~

GENERAL NOTES:

1. 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 Public Agencies.
2. ALL WORK WITHIN THE STATE RIGHT OF WAY SHALL CONFORM TO THE LATEST STATE STANDARDS AND SPECIFICATIONS ~~Construction shall be in accordance with the State of California Department of Transportation, Standard Specifications and Standard Plans, 1988 Edition~~ OR AS DIRECTED BY THE STATES REPRESENTATIVE. STANDARDS OTHER THAN STATE STANDARDS MUST BE JUSTIFIED AND PRE-APPROVED.
3. ~~Trim edge of existing pavement where new pavement joins to a smooth, straight line. Construct match-up paving as shown on plan and overlay paving as directed in the field to produce a smooth section. Private Engineer estimates overlay to be 28 tons.~~
4. ~~Structural section within the State right of way is for estimating purposes only. The actual section will be designed by a Soil Engineer after native soil testing has been completed. A traffic index (TI) of 10 will be used in designing travelled way structural section, and a TI of 7 will be used for the shoulder structural section. The laboratory reports and the design calculations shall be furnished to the State's Representative for the review and approval prior to construction of the structural section.~~
5. Curb and gutter shall be staked with 3' offsets at 25' (7.62M) intervals.
6. Curb and gutter shall be staked with 3' offsets at 12.5' (3.81M) intervals and two rows of number 3 re-bar shall be placed in gutter where grade is less than 0.40%. Place 3/4" dowel pins at all expansion joints.
7. Quantities shown are for information only and the City of Riverside is not responsible for their accuracy.
8. All traffic signs shall be installed prior to opening the ramp to traffic.
9. 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.~~ STATE AND/OR CITY INSPECTORS.
10. ~~Final striping for traffic control and/or pavement marking to be the responsibility of the developer.~~
11. ~~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.~~
12. The contractor is required to obtain a permit from the State of California Department of Transportation prior to starting any work within Cal-Trans Right-of-Way.
13. Access control will be maintained at all times (work inside State right of way must be fenced off with no access to work area from freeway).
14. Any fence relocated to facilitate construction of this project inside State right of way shall be replaced with CL-6 fence to State Standards. ~~or block wall as per City of Riverside Standards.~~
15. No equipment or materials may be stored on the State right of way.
16. All disturbed areas in the State right of way must be treated for erosion control (hydroseeding or equivalent). TYPE 'D'. TWO APPLICATIONS.
17. The responsibility for maintaining erosion control will not be released until the seeding is well established. The contractor will be responsible for ~~the cost of Caltrans~~ cleaning any silted up drainage structures and channels resulting from, or caused by, the construction project.
18. No freeway ramps or freeway lanes may be closed or obstructed at any time, unless specifications allowed in the encroachment permit and/or as directed by the State's Representative.
19. Where survey monuments exist, such monuments shall be protected or shall be referenced and reset, pursuant to Business and Professions Code, Sections 8700 to 8805 (Land Surveyor's Act).
20. Any fence disturbed, relocated, or not presently providing the equivalent access control of a 6' (1.83M) chainlink fence, shall be replaced with a Type CL-6 fence at all designated areas of the State access control boundary and/or as directed by the State's Representative.
21. Any water valve cans within the construction zone shall be raised to final grade to the satisfaction of Eastern Municipal Water District.

(NOTES CONTINUED ON SHT. 7)

NOTIFICATIONS

NOTE: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES 48 HOURS PRIOR TO STARTING CONSTRUCTION OR EXCAVATION:

EASTERN MUNICIPAL WATER DISTRICT - ~~JIM WARE~~ RICHARD KELLINE (909) ~~(714)~~ 925-7676 EXT. ~~225~~ 4842

GENERAL TELEPHONE: 1-(800) 422-4133

SOUTHERN CALIFORNIA GAS COMPANY: (909) ~~(714)~~ 845-2617

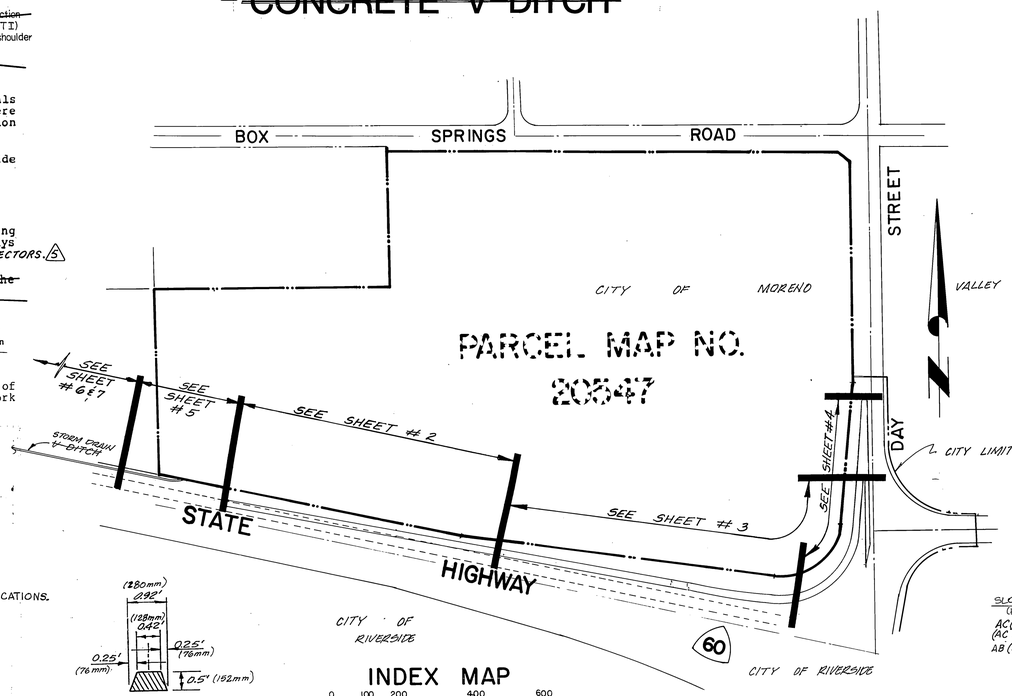
EDGEMONT COMMUNITY SERVICES DISTRICT: (909) ~~(714)~~ 653-5120

SO. CALIF. EDISON CO. (~~PERRIS~~ SAN JACINTO OFFICE): (909) 928-8234 ~~(714) 657-5154~~ (KIM KILLIEN)

UNDERGROUND SERVICE ALERT: 1-(800) 422-4133

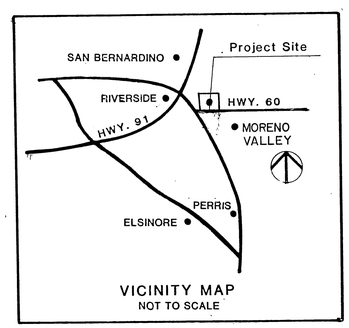
CALIFORNIA HIGHWAY PATROL (909) 637-8000

NOTE: DUAL UNITS ARE SHOWN FOR ALL DISTANCES AND LENGTHS ON THIS PLAN. METRIC UNITS ARE LISTED IN PARENTHESES.
EXAMPLE: (104.61M) = 104.61 METERS
(76 mm) = 76 MILLIMETERS
ALL CONSTRUCTION STAKING SHALL BE DONE USING ENGLISH UNITS.



INDEX MAP
0 100 200 400 600
(30.48M) (60.96M) (121.92M) (182.88M)
SCALE IN FEET

A.C. DIKE DETAIL
PER CALTRANS STD. PLANS, 1988 ~~1988~~, DETAIL N8-A.



VICINITY MAP
NOT TO SCALE

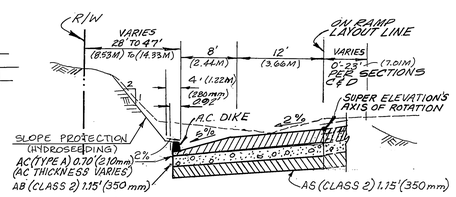
NOTES:
1. STRUCTURAL SECTIONS SHALL CONSIST OF AC TYPE "B", ~~CEMENT TREATED BASE~~ AND CLASS 2 AGGREGATE BASE AS PER 1995 ~~1988~~ STATE STANDARD SPECIFICATIONS.
2. ALL 2:1 SLOPES SHALL BE HYDROSEEDED PER CALTRANS STANDARD SPECIFICATIONS.

CONSTRUCTION NOTES & QUANTITY ESTIMATE

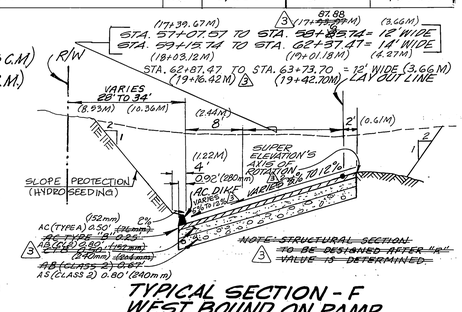
NO.	ITEM DESCRIPTION	UNIT	QUANT.	METRIC UNIT	METRIC QUANT.
1	REMOVE AND DISPOSE OF EXISTING A.C. PAVING & BASE AND A.C. DIKE	S.F.	16,100	S.M.	
2	REMOVE EXISTING CONCRETE HEAD WALL	EA.	1		
3	REMOVE EXISTING TREES AS REQUIRED FOR CONSTRUCTION OF ~~"V" DITCH~~ STORM DRAIN	EA.	13 ±		
4	~~CONSTRUCT 5" THICK CONCRETE "V" DITCH PER DETAIL, SHT. 5 & 7~~	~~C.Y.~~	~~393~~	~~C.M.~~	~~300.5~~
5	CONSTRUCT CONCRETE INLET STRUCTURE PER DETAILS ON SHT. 7	C.Y.	13	C.M	3.03
6	INSTALL 24" R.C.P. (1500-D) PER CALTRANS ~~1988~~ 1992 SPECIFICATIONS	L.F.	75	M.	22.86
7	INSTALL 18" C.M.P. (450mm) PER CALTRANS ~~1988~~ 1992 SPECIFICATIONS	L.F.	93	M.	28.35
8	CONSTRUCT 1'X4' REINFORCED CONCRETE BOX PER CALTRANS STD. DRAWING D80	L.F.	40	M	12.19
9	CONSTRUCT TYPE GO DRAINAGE INLET PER CALTRANS STD. D74	EA.	1		
10	CONSTRUCT TYPE GMP PIPE INLET PER CALTRANS STD. D75	EA.	1		
11	CONSTRUCT CURB OUTLET PER CITY OF RIVERSIDE STD. Nº 410	EA.	1		
12	CONSTRUCT CONCRETE ~~BLOCK~~ RETAINING WALL PER DETAIL ON SHEET 1	L.F.	92	M	28.04
13	CONSTRUCT TYPE I CURB & GUTTER (8" C.F.) PER ~~CITY OF RIVERSIDE STD. Nº 200~~ PLAN A8 (203mm) TYPE A2-200	L.F.	470	M	143.26
14	CONSTRUCT STRUCTURAL SECTION PER CALTRANS 1995 SPECIFICATIONS AND SECTION ON SHEET 1.	S.F.	66,170	S.M.	6,147.4
15	CONSTRUCT 0.50' (152mm) A.C. OVER 0.80' (240mm) AGGREGATE BASE OVER 0.80' (240mm) A.G.	S.F.	9,178	S.M.	852.66
16	CONSTRUCT VARIABLE THICKNESS A.C. OVERLAY	S.F.	11,994	S.M.	1,114.28
17	CONSTRUCT A.C. DIKE PER DETAIL ON SHT. 1	L.F.	2,197	M	669.65
18	SAW-CUT EXISTING PAVEMENT (CLEAN-CUT LINE)	L.F.	1,816	M	553.92
19	PLACE 3" A.C. (76mm) OVER COMPACTED NATIVE SOIL	S.F.	602	S.M.	55.93
20	SLOPE PROTECTION - HYDROSEEDING	S.Y.	5,800	S.M.	4,849.54

EARTHWORK QUANTITIES

RAW CUT: 8,130 C.Y. (6,216 C.M.)
RAW FILL: 600 C.Y. (459 C.M.)

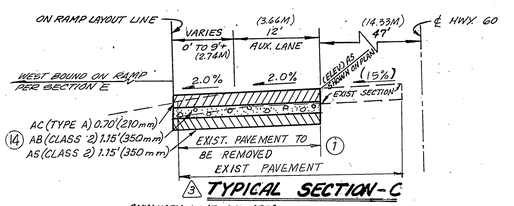


3 TYPICAL SECTION-E
WEST BOUND ON RAMP
STA. 51+21.30 TO STA. 57+07.57 (15+60.97M) (17+39.67M)



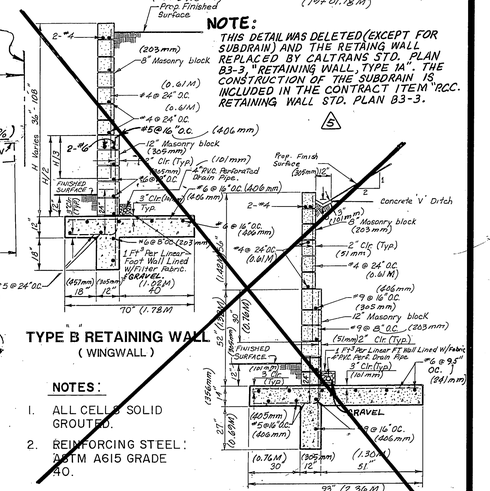
TYPICAL SECTION - F
WEST BOUND ON RAMP
STA. 57+07.57 TO STA. 62+37.47 (17+39.67M) (19+01.18M)

NOTE: THIS DETAIL WAS DELETED (EXCEPT FOR SUBDRAIN) AND THE RETAINING WALL REPLACED BY CALTRANS STD. PLAN B3-3, "RETAINING WALL, TYPE 1A". THE CONSTRUCTION OF THE SUBDRAIN IS INCLUDED IN THE CONTRACT ITEM "RCC. RETAINING WALL STD. PLAN B3-3.

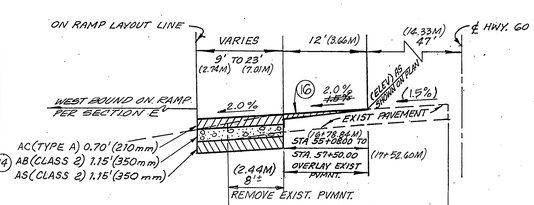


3 TYPICAL SECTION-C
AUXILARY LANE AND AREA TO ON RAMP LAYOUT LINE
STA 51+21.30 TO STA 55+08.00 - REMOVE EXISTING PAVEMENT & BASE (15+60.97M) (16+78.84M)

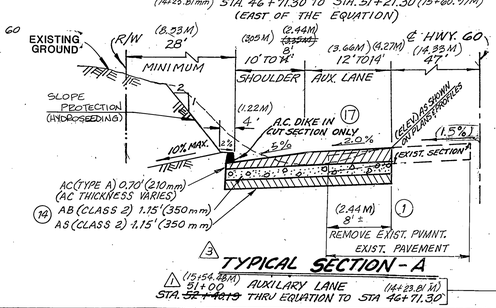
3 TYPICAL SECTION - B
AUXILARY LANE AND WEST BOUND ON RAMP STA. 46+71.30 TO STA. 51+21.30 (14+23.81M) (15+60.97M)
(EAST OF THE EQUATION)



~~RETAINING WALL DETAIL~~



3 TYPICAL SECTION-D
AUXILARY LANE AND AREA TO ONRAMP LAYOUT LINE
STA 55+08.00 TO STA. 57+06.96 (17+39.48M)
- CONSTRUCT A.C. OVERLAY (12±) (61mm±) PER CALTRANS SPECIFICATIONS



3 TYPICAL SECTION - A
STA. 51+00 (15+54.48M) TO STA. 52+98.91 (16+15.11M)
AUXILARY LANE (14+23.81M) THRU EQUATION TO STA 46+71.30

STA. 51+00 (15+54.48M) TO STA. 52+98.91 (16+15.11M)
(equ. 52+98.91 = 44+21.80) (13+47.76M)
STA. 44+21.80 (13+47.76M) TO STA. 46+71.30 (14+23.81M)

FOR PLAN REVISIONS 1 AND 2
3 AND 4

BENCH MARK: RIV. CO: B.M.
BRASS DISC MARKED M-64-69 IN THE CENTER OF A 8" x 16' HDWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

Greiner
Greiner, Inc.
5225 Canyon Crest Drive
Building 200, Suite 253
Riverside, California 92507-6323
(714) 788-7746
FAX: (714) 788-5002
PLANS PREPARED UNDER THE DIRECTION OF: DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

CITY OF MORENO VALLEY
PLANS REVIEWED BY: Barry D. McClellan
CITY OF MORENO VALLEY CITY ENGINEER R.C.E.# 29459
DATE: 7-18-91

MARK	REVISIONS	APPR.	DATE
1	REVISIONS PER CALTRANS REVIEW		
2	MISC. ENG'R REVISIONS		10/1/91
3	CALTRANS REVISIONS		10/15/91
4	ADDED METRIC UNITS		6/17/92
5	REVISED PLAN TO SHOW NEW R/W, EXIST. C.L., TRAVEL & NEW C.L.		7/20/92

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

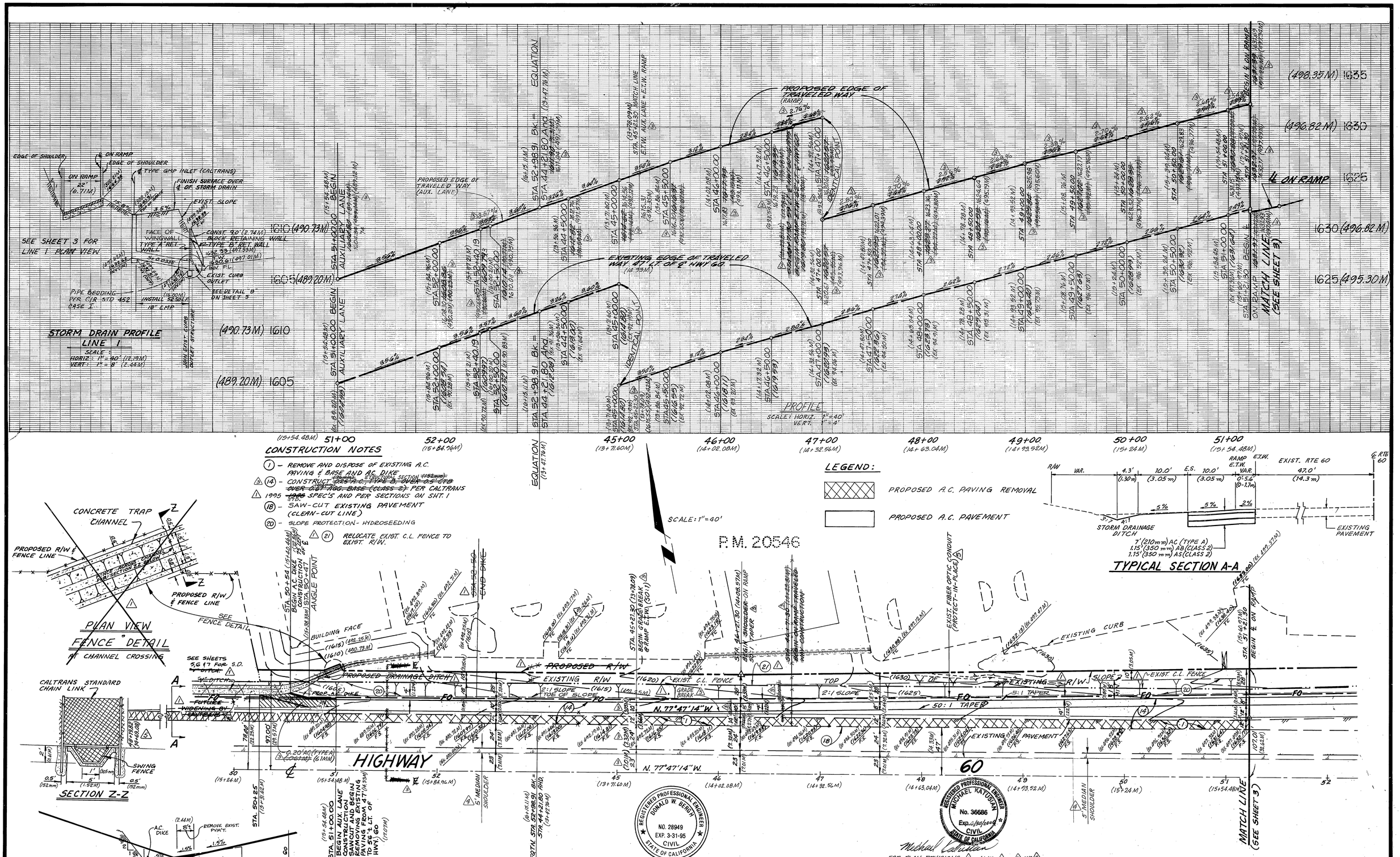
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	8/1/92	
TRAFFIC DIVISION	7/17/91	
CHIEF P. W. ENGINEER	8/7/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE

CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO WEST BOUND HWY. 60 AND ~~CONCRETE V-DITCH~~ STORM DRAIN
TITLE SHEET 1
HORIZ. SCALE: 1" = VERT. SCALE: 1" =

ACCOUNT NO. R-3218
SHEET 1 OF 7



SCALE: (12.19M) HORIZ.: 1"=40' VERT.: 1"=4' (1.22M)

DATE

BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-59 IN THE CENTER OF A 8" X 15' HDWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53' WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

PLANS REVIEWED BY: Barry D. McCallon
CITY OF MORENO VALLEY
CITY OF ENGINEER R.C.E. #29459
DATE: 7-18-91

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Riverside, California 92507-8323
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FAX: (714) 788-5002

PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh
DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE
4	REVISIONS PER CALTRANS REVIEW		
3	Revised plan to show exist. conditions	MK	10/6/92
2	CALTRANS REVISIONS	MK	10/29/92
1	ADDED METRIC UNITS	MK	6/16/92
1	REVISED PLAN TO SHOW NEW R/W, EXIST. C.L. FENCE, & CURB	MK	6/16/92

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	9/10/92	SP
TRAFFIC DIVISION	9-17-91	
CHIEF P. W. ENGINEER	8-27-91	R.A.G.

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE

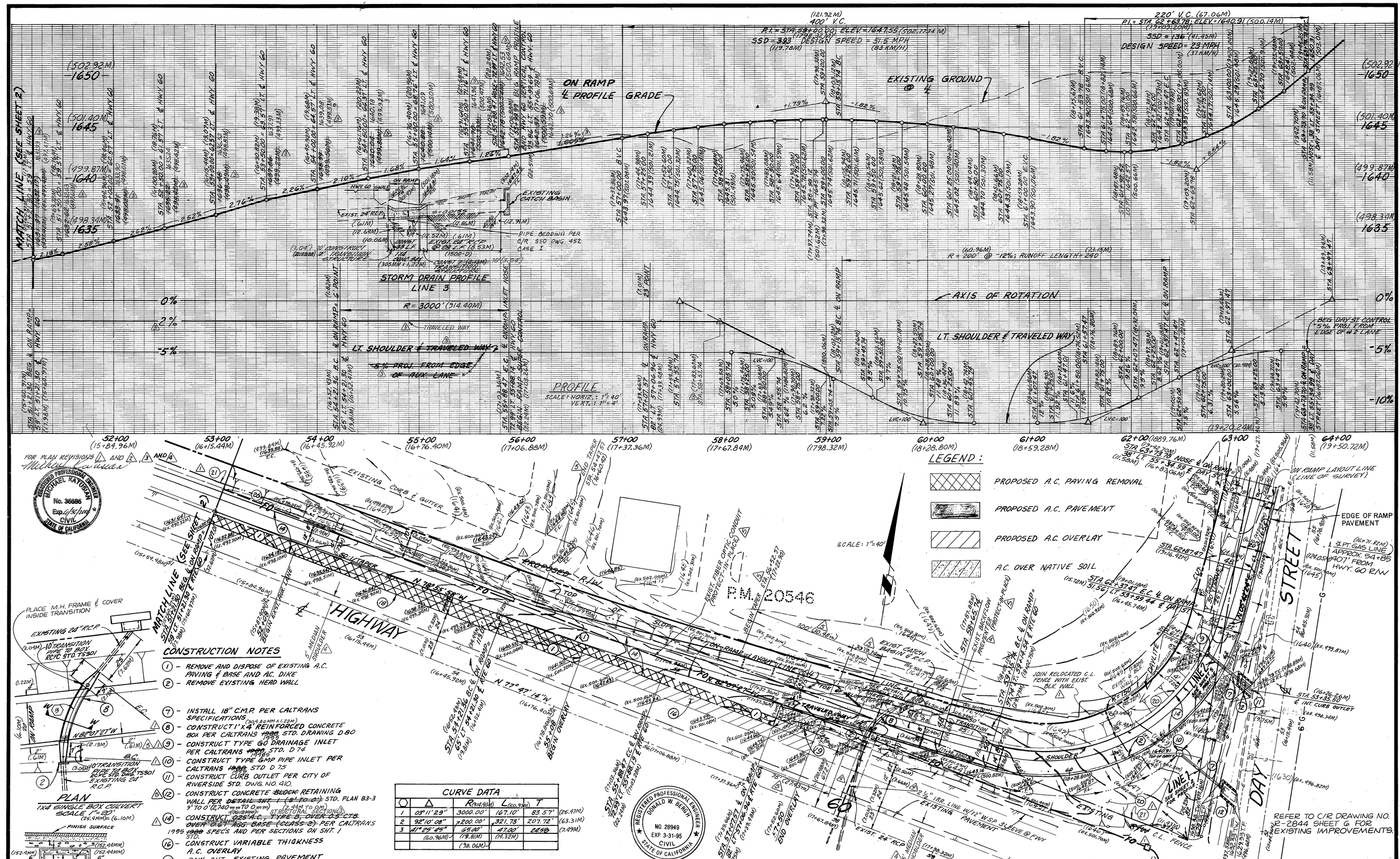
CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO WEST BOUND HWY. 60 AND ~~CONCRETE V-DITCH~~ STORM DRAIN
PLAN AND PROFILE

ACCOUNT NO. R-3218
SHEET 2 OF 7

W.O. FOR: F.B.

KARL

INDEXED 5-09-07



SCALE: HORIZ.: 1"=40' (12.19M) VERT.: 1"=4' (1.22M)
DATE

BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-69 IN THE CENTER OF A 9"x 15" HOWL IN THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

PLANS REVIEWED BY: CITY OF MORENO VALLEY CITY OF ENGINEER R.C.E. # 29459
DATE: 7-18-91

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PLANS PREPARED UNDER THE DIRECTION OF: DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE
5	REVISIONS PER CALTRANS REVIEW		
4	Revised plan to show exist. conditions		
3	CALTRANS REVISIONS		
2	ADDED METRIC UNITS		
1	REVISED PLAN TO SHOW NEW R/W, EXIST. C.L. FENCE & NEW S.B.		

DESIGNED BY R.A DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

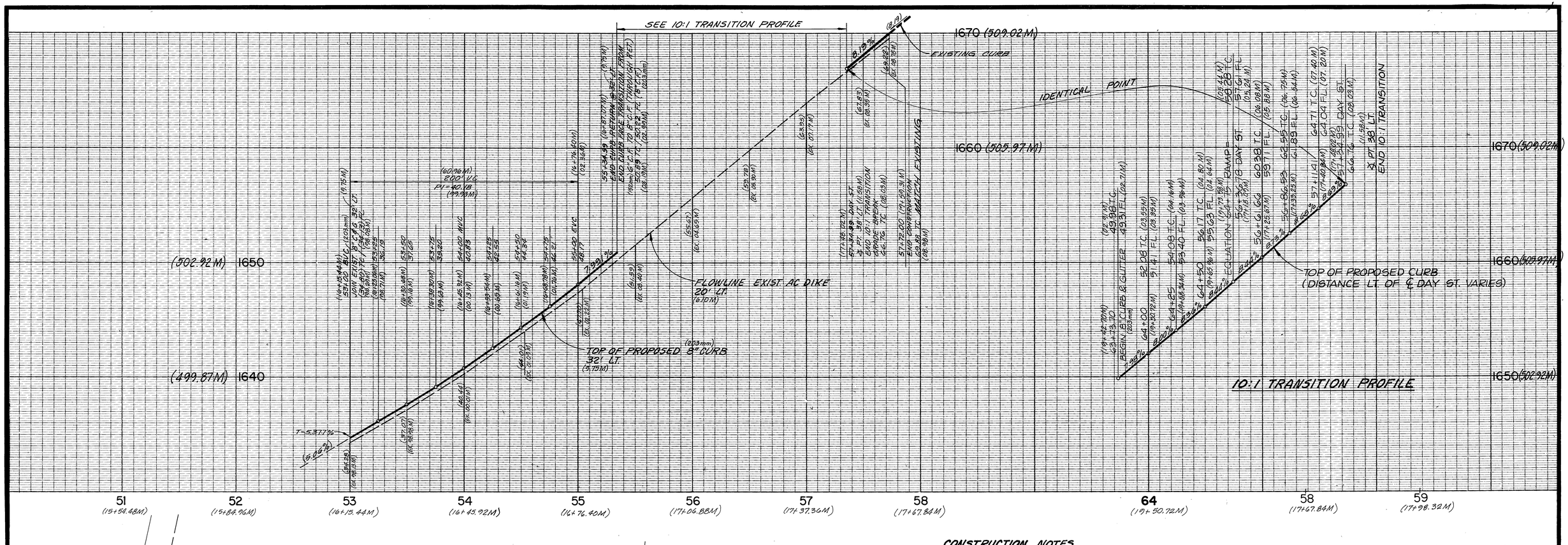
APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	7/18/91	
TRAFFIC DIVISION	7-17-91	
CHIEF P. W. ENGINEER	11-6-91	

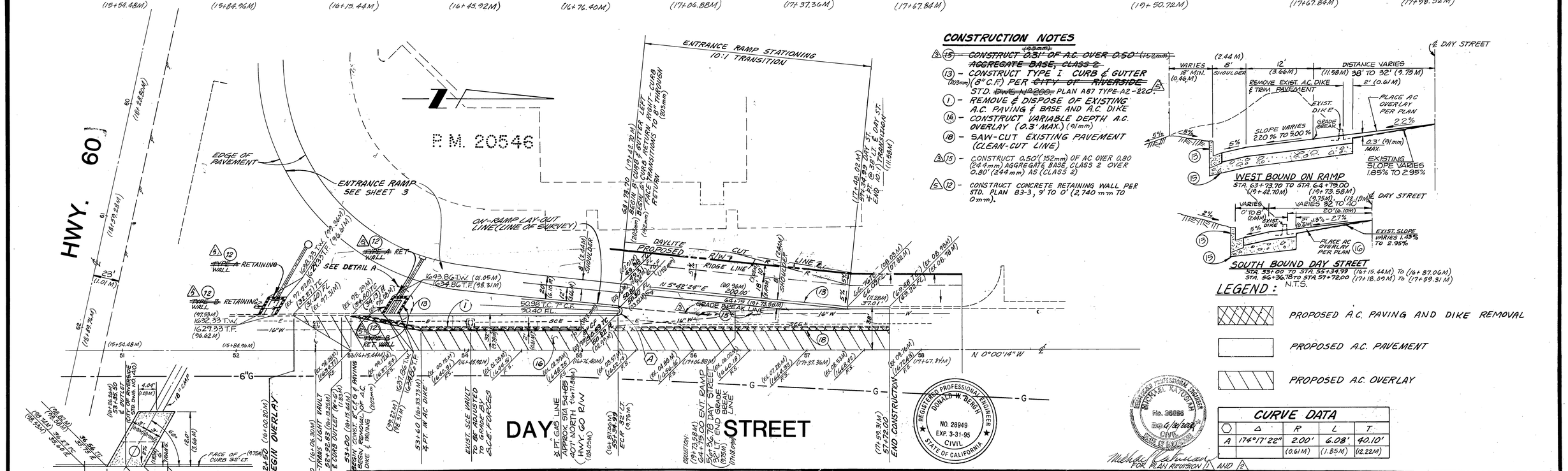
APPROVED BY
PUBLIC WORKS DIRECTOR
DATE

CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO ~~WEST BOUND~~ HWY. 60 AND ~~CONCRETE V-DITCH~~ STORM DRAIN
PLAN AND PROFILE

ACCOUNT NO. R-3218
SHEET 3 OF 7
W.O. FOR: F.B.

INDEXED





CONSTRUCTION NOTES

(15) ~~CONSTRUCT 0.31' OF A.C. OVER 0.50' (152mm) AGGREGATE BASE, CLASS 2~~

(13) - CONSTRUCT TYPE I CURB & GUTTER (203mm) (8" C.F.) PER ~~CITY OF RIVERSIDE~~ STD. ~~DWG No 200~~ PLAN A87 TYPE-A2-220

(1) - REMOVE & DISPOSE OF EXISTING A.C. PAVING & BASE AND A.C. DIKE

(16) - CONSTRUCT VARIABLE DEPTH A.C. OVERLAY (0.3' MAX.) (91mm)

(18) - SAW-CUT EXISTING PAVEMENT (CLEAN-CUT LINE)

(15) - CONSTRUCT 0.50' (152mm) OF AC OVER 0.80 (244mm) AGGREGATE BASE, CLASS 2 OVER 0.80' (244mm) AS (CLASS 2)

(12) - CONSTRUCT CONCRETE RETAINING WALL PER STD. PLAN B3-3, 9' TO 0' (2,740 mm TO 0mm).

LEGEND :

- PROPOSED A.C. PAVING AND DIKE REMOVAL
- PROPOSED A.C. PAVEMENT
- PROPOSED A.C. OVERLAY

REGISTERED PROFESSIONAL ENGINEER DONALD W. BERGH NO. 28949 EXP. 3-31-95 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MICHAEL KATOSIAN No. 36886 Exp. 6/30/93 CIVIL STATE OF CALIFORNIA

FOR PLAN REVISION 1 AND 2

CURVE DATA

	Δ	R	L	T
A	174°17'22"	2.00'	6.08'	40.10'
		(0.61M)	(1.85M)	(12.22M)

SCALE: (12.19M) HORIZ: 1"=40' VERT.: 1"=4' (1.22M)

DATE

BENCH MARK: RIV. CO. B.M. BRASS DISC MARKED M-54-69 IN THE CENTER OF A 8"x 15' HOWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53' WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

PLANS REVIEWED BY: Barry D. McCullen CITY OF MORENO VALLEY CITY ENGINEER R.C.E. #29459

DATE: 7-18-91

Greiner

Greiner, Inc.
5225 Canyon Crest Drive
Building 200, Suite 253
Riverside, California 92507-6323
(714) 788-1746
FAX: (714) 788-5002

PLANS PREPARED UNDER THE DIRECTION OF: DONALD W. BERGH

EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE
2	REVISIONS PER CALTRANS REVIEW		
1	ADDED METRIC UNITS	MM	6/16/93
	REVISED PLAN TO SHOW NEW R/W, ELIST. &, REMOVE A.C.	MM	6/16/93

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		9/19/91	
TRAFFIC DIVISION		9-19-91	
CHIEF P. W. ENGINEER		10-6-91	

APPROVED BY

PUBLIC WORKS DIRECTOR

DATE

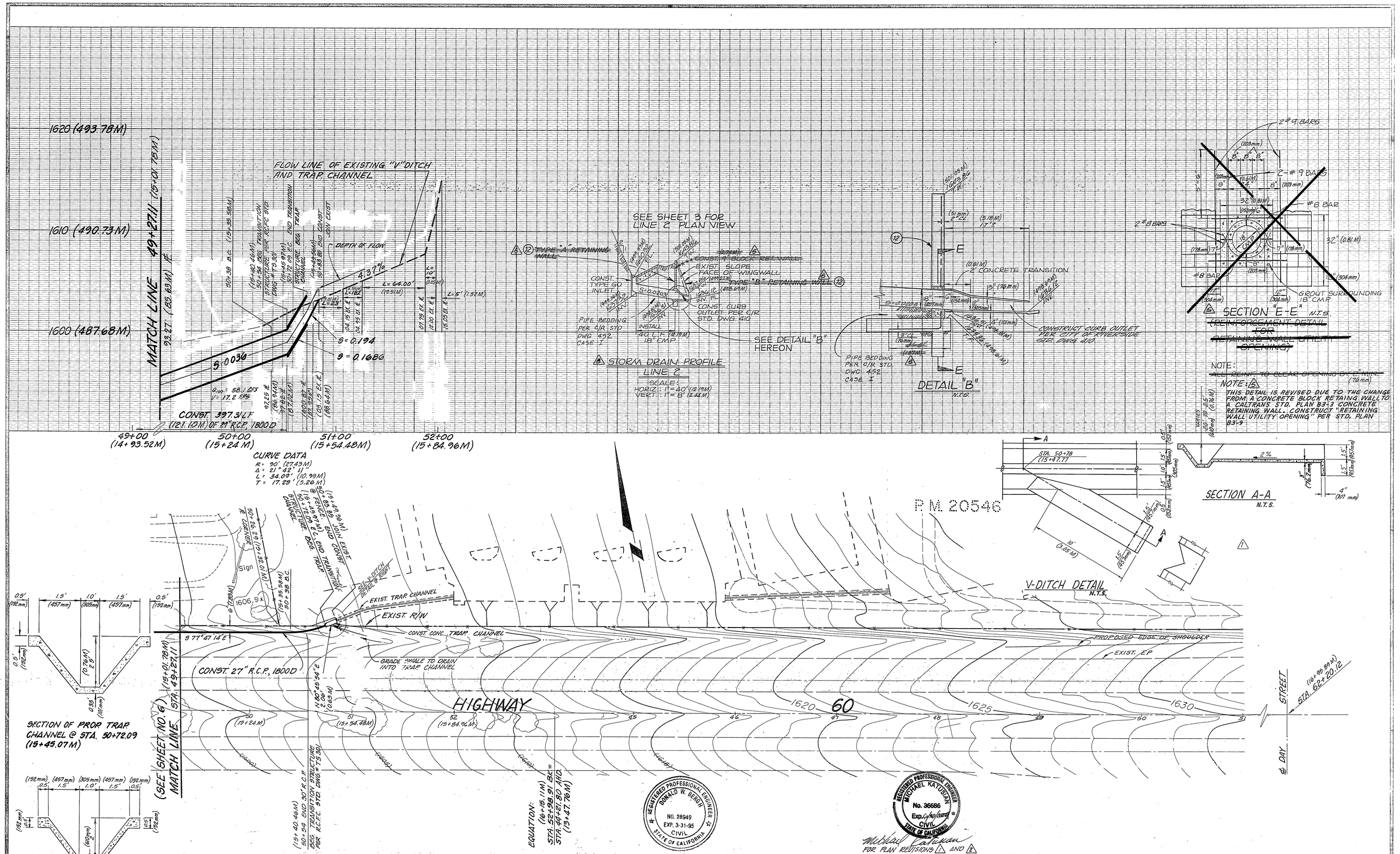
CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO
WEST BOUND HWY. 60
AND ~~CONCRETE V-DITCH~~ STORM DRAIN
PLAN AND PROFILE

ACCOUNT NO. R-3218

SHEET 4 OF 7

W.O. FOR: F.B.

INDEXED 5-29-92



SCALE: HORIZ: 1"=40' (12.19M) VERT.: 1"=4' (1.22M)

DATE

PLANS REVIEWED BY: Barry D. McCallum
CITY OF MORENO VALLEY
CITY OF ENGINEER R.C.E. #29459

DATE: 7-18-91

BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-69 IN THE CENTER OF A 8"X 15" HDWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

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PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh
DONALD W. BERGH

EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE
2	REVISIONS PER CALTRANS REVIEW		
1	ADDED METRIC UNITS		
	REVISED PLAN TO SHOW NEW R/W, EXIST. ℄, EDGE, S.B.		

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		9/19/91	
TRAFFIC DIVISION		9-17-91	
CHIEF P.W. ENGINEER		10-3-91	
		9/30/91	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 10/9/91

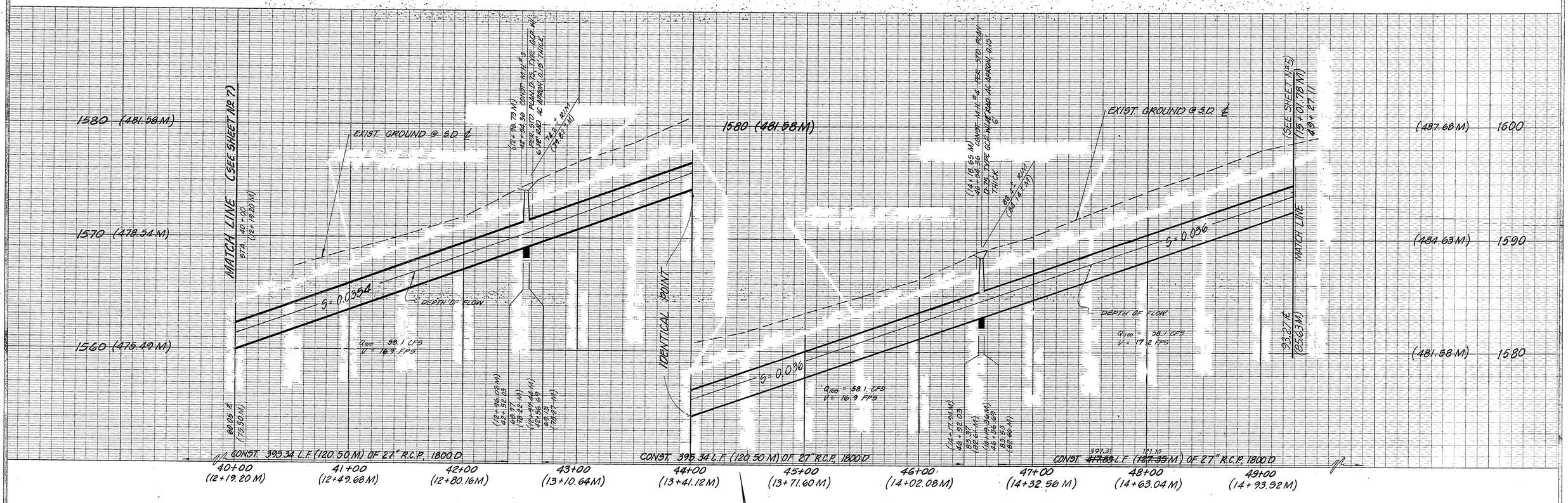
CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO
WEST BOUND HWY. 60
AND ~~CONCRETE V-DITCH~~ STORM DRAIN
PLAN AND PROFILE

ACCOUNT NO. R-3218

SHEET 5 OF 7

W.O. FOR: F.B.

INDEXED 5-09-02 HH



REGISTERED PROFESSIONAL ENGINEER DONALD W. BERGH NO. 28949 EXP. 3-31-95 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MICHAEL KATUSIAN No. 36686 Exp. 6/30/2000 CIVIL STATE OF CALIFORNIA

Michael Katusian
FOR PLAN REVISIONS 1 AND 2

SCALE: (12.19 M) HORIZ: 1" = 40' VERT.: 1" = 4' (1.22 M)	BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-69 IN THE CENTER OF A 8" X 15' HDWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241	Greiner	Greiner, Inc. 5225 Canyon Crest Drive Building 200, Suite 253 Riverside, California 92507-6323 (714) 788-7746 FAX: (714) 788-5002
DATE			
PLANS REVIEWED BY: Barry D. McClellan CITY OF MORENO VALLEY CITY OF ENGINEER R.C.E. # 29459		PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh DONALD W. BERGH	
DATE: 7-18-91		EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91	

MARK	REVISIONS	APPR.	DATE
2	ADDED METRIC UNITS	MK	6/4/96
1	REVISED PLAN TO SHOW NEW R/W, EXIST. ℄, FENCE & S.D.	MK	6/4/96

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	9/19/91	
TRAFFIC DIVISION	9-17-91	
CHIEF P.W. ENGINEER	10-8-91	RMG
	9/30/91	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 10/9/91

CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO
WEST BOUND HWY. 60
AND ~~CONCRETE V DITCH~~ STORM DRAIN 1
PLAN AND PROFILE

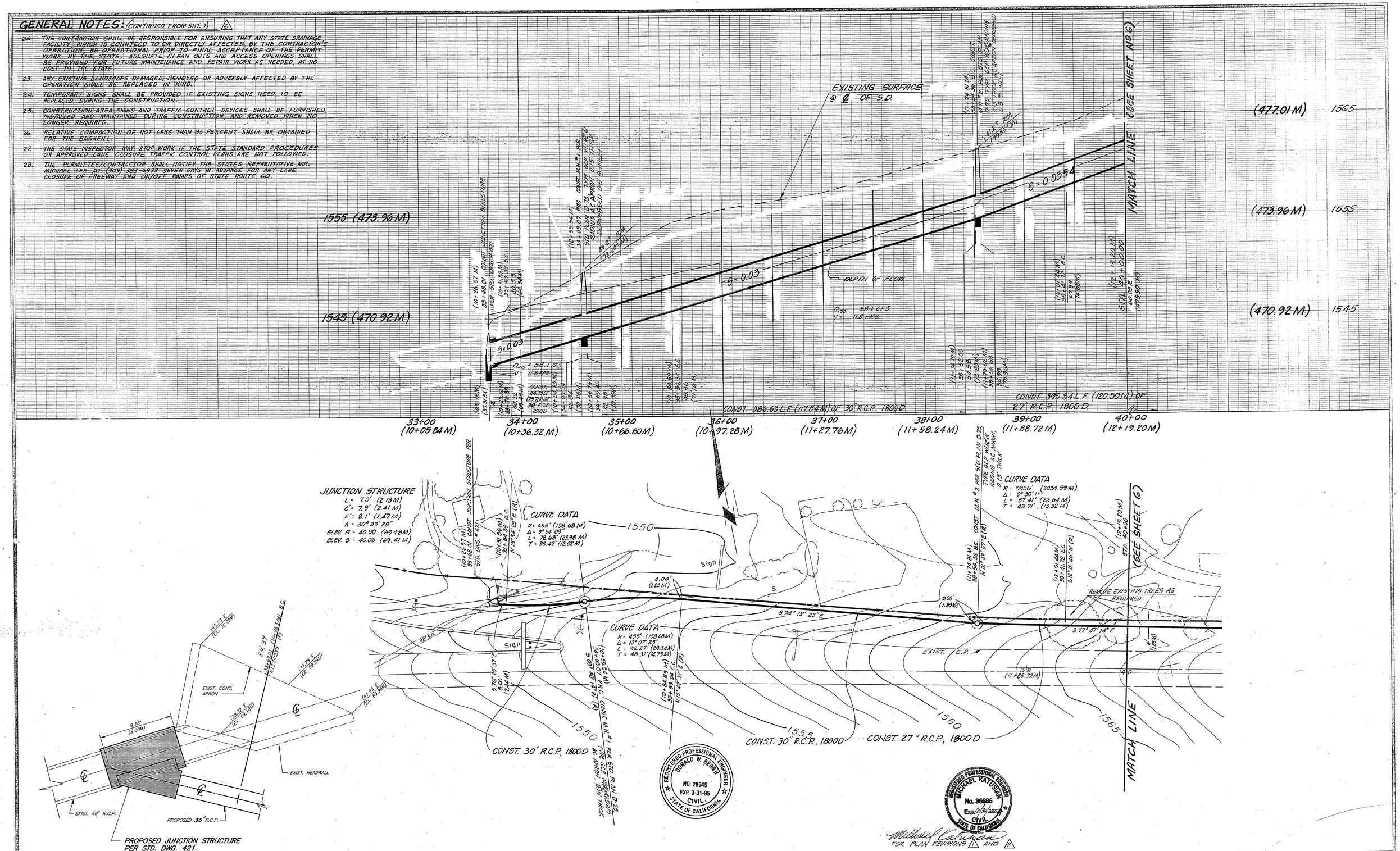
ACCOUNT NO. R-3218
SHEET 6 OF 7

W.O. FOR: F.B.

INDEXED 5-09-02

GENERAL NOTES: (CONTINUED FROM SHT. 1) 6

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY STATE DRAINAGE FACILITY WHICH IS CONNTECD TO OR DIRECTLY AFFECTED BY THE CONTRACTOR'S OPERATION, BE OPERATIONAL PRIOR TO FINAL ACCEPTANCE OF THE PERMIT WORK BY THE STATE. ADEQUATE CLEAN OUTS AND ACCESS OPENINGS SHALL BE PROVIDED FOR FUTURE MAINTENANCE AND REPAIR WORK AS NEEDED, AT NO COST TO THE STATE.
23. ANY EXISTING LANDSCAPE DAMAGED, REMOVED OR ADVERSLY AFFECTED BY THE OPERATION SHALL BE REPLACED IN KIND.
24. TEMPORARY SIGNS SHALL BE PROVIDED IF EXISTING SIGNS NEED TO BE REPLACED DURING THE CONSTRUCTION.
25. CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, INSTALLED AND MAINTAINED DURING CONSTRUCTION, AND REMOVED WHEN NO LONGER REQUIRED.
26. RELATIVE COMPACTION OF NOT LESS THAN 95 PERCENT SHALL BE OBTAINED FOR THE BACKFILL.
27. THE STATE INSPECTOR MAY STOP WORK IF THE STATE STANDARD PROCEDURES OR APPROVED LANE CLOSURE TRAFFIC CONTROL PLANS ARE NOT FOLLOWED.
28. THE PERMITTEE/CONTRACTOR SHALL NOTIFY THE STATES REPRENTATIVE MR. MICHAEL LEE AT (909) 383-6922 SEVEN DAYS IN ADVANCE FOR ANY LANE CLOSURE OF FREEWAY AND ON/OFF RAMPS OF STATE ROUTE 60.



JUNCTION STRUCTURE DETAIL
NO SCALE

REGISTERED PROFESSIONAL ENGINEER DONALD W. BERGH NO. 28949 EXP. 3-31-95 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MICHAEL KATOSIAN No. 36686 Exp. 6/30/92 CIVIL STATE OF CALIFORNIA

FOR PLAN REVISIONS 1 AND 2

SCALE: HORIZ: 1" = 40' (12.19 M) VERT.: 1" = 4' (1.22 M)
DATE

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PLANS REVIEWED BY: Barry D. McClellan
CITY OF MORENO VALLEY, CITY OF ENGINEER R.C.E. # 29459
DATE: 7-18-91

Greiner
Greiner, Inc.
5225 Canyon Crest Drive
Building 200, Suite 253
Riverside, California 92507-6323
(714) 788-7746
FAX: (714) 788-5002

PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh
DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE
2	REVISIONS PER CATRANS REVIEW		7/18/91
1	ADDED METRIC UNITS		6/14/91
1	REVISED PLAN TO SHOW MAP R/W, EXIST. E.P. AND ADDED 1 E.P.		6/14/91

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

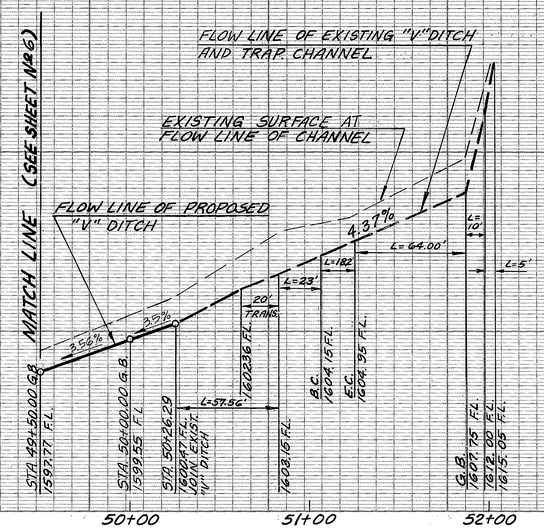
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY PRINCIPAL ENGINEER	7/18/91	APPROVED BY PUBLIC WORKS DIRECTOR	
TRAFFIC DIVISION	5-17-91	DATE	10/9/91
CHIEF P.W. ENGINEER	10-8-91		

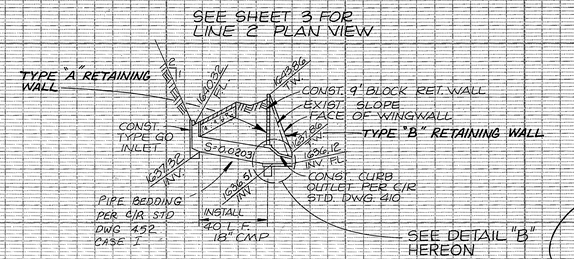
CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO WEST BOUND HWY. 60 AND ~~CONCRETE V-DITCH~~ STORM DRAIN 1
PLAN AND PROFILE

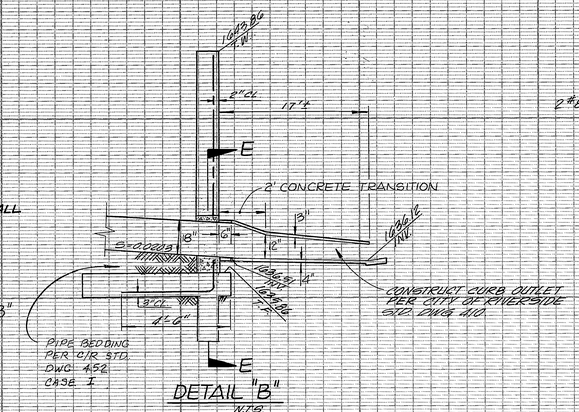
ACCOUNT NO. R-3218
SHEET 7 OF 7
W.O. FOR: F.B. FILE NO.

INDEXED 5-09-02 LH

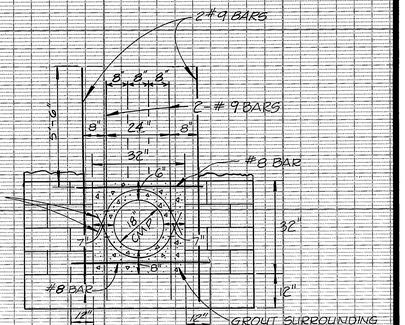


STORM DRAIN PROFILE
LINE 2
SCALE:
HORIZ.: 1" = 40'
VERT.: 1" = 8'





DETAIL "B"
N.T.S.

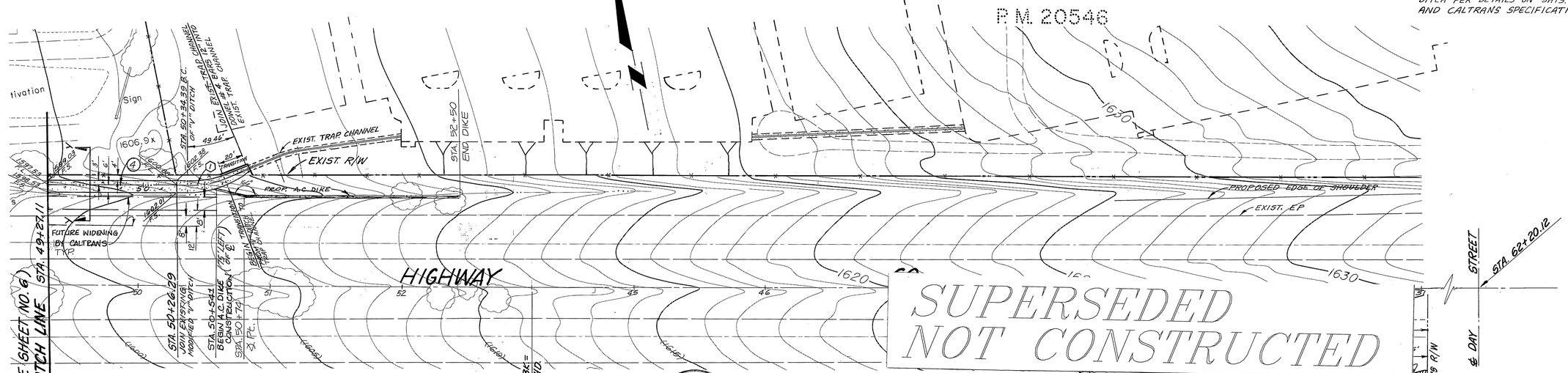


SECTION "E-E" N.T.S.
(REINFORCEMENT DETAIL FOR RETAINING WALL UTILITY OPENING)

NOTE:
ALL REINF. TO CLEAR OPENING BY 2" MIN.

CONSTRUCTION NOTES

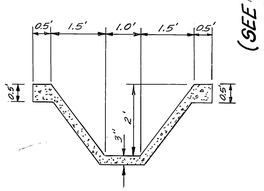
(4) CONSTRUCT 5" THICK CONCRETE "V" DITCH PER DETAILS ON SHTS. 5 & 7 AND CALTRANS SPECIFICATIONS.



TYPICAL "V" DITCH DETAIL
SECTION "Y-Y"
NOT TO SCALE

EQUATION:
STA. 52+58.91 BK = STA. 44+21.80 AHD.

CURVE DATA				
⬡	Δ	R	L	T
1	36°48'12"	77.00'	49.46'	25.62'



TYPICAL SECTION OF EXISTING TRAP CHANNEL

REGISTERED PROFESSIONAL ENGINEER DONALD W. BERGH NO. 28949 EXP. 3-31-95 CIVIL STATE OF CALIFORNIA

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

DATE

BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-69 IN THE CENTER OF A 8" X 15' HDWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241

PLANS REVIEWED BY: Barry D. McCallum
CITY OF MORENO VALLEY
CITY OF ENGINEER R.C.E. # 29459
DATE: 7-18-91

Greiner
Greiner, Inc.
5225 Canyon Crest Drive
Building 200, Suite 253
Riverside, California 92507-6323
(714) 788-7746
FAX: (714) 788-5002

PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh
DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	9/19/94	
TRAFFIC DIVISION	7-17-91	
CHIEF P. W. ENGINEER	10-3-91	
	9/30/94	

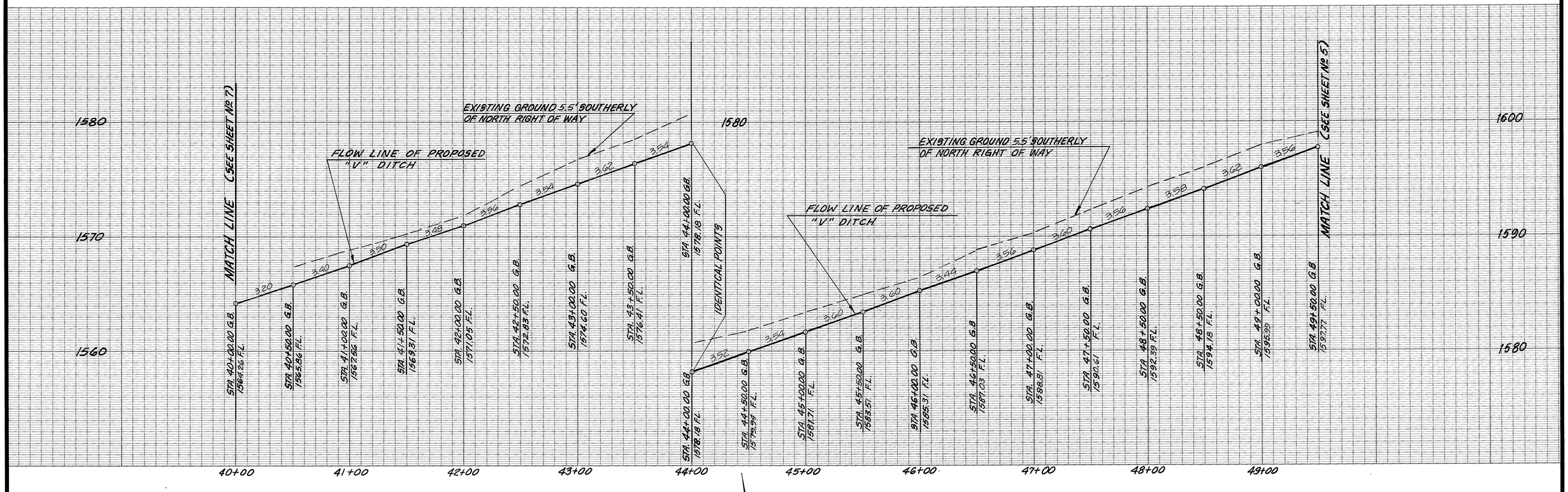
APPROVED BY
PUBLIC WORKS DIRECTOR
DATE

CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO
WEST BOUND HWY. 60
AND CONCRETE V-DITCH
PLAN AND PROFILE

W.O. FOR: F.B.

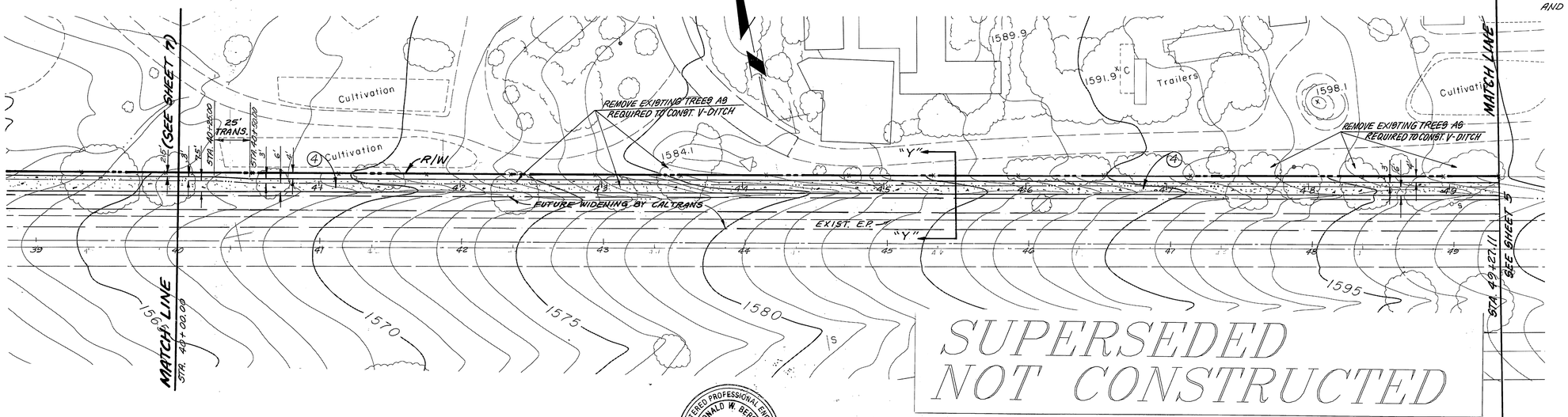
ACCOUNT NO. R-3218

SHEET 5 OF 7



CONSTRUCTION NOTES

(4) - CONSTRUCT 5" THICK CONCRETE "V" DITCH PER DETAILS ON SHTS 5 & 7 AND CALTRANS SPECIFICATIONS.



SUPERSEDED
NOT CONSTRUCTED

REGISTERED PROFESSIONAL ENGINEER
DONALD W. BERGH
NO. 28949
EXP. 3-31-95
CIVIL
STATE OF CALIFORNIA

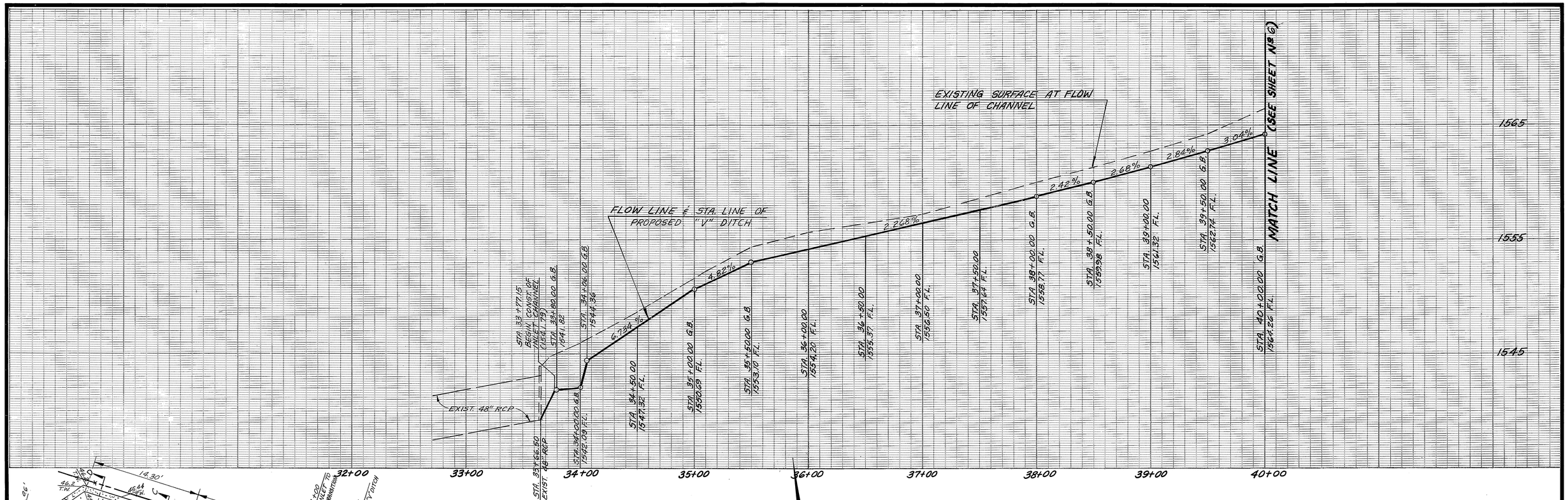
SCALE: HORIZ: 1"=40' VERT.: 1"=4' DATE	BENCH MARK: RIV. CO: B.M. BRASS DISC MARKED M-64-69 IN THE CENTER OF A 8"X 16' HOWL @ THE S.W. CORNER OF HWY. 60 & DAY ST. 53" WEST OF DAY ST. & 23' S.E. OF N.E. CORNER OF A C.S.D.H. R/W FENCE. ELEVATION = 1612.241	Greiner — Greiner, Inc. 5225 Canyon Crest Drive Building 200, Suite 253 Riverside, California 92507-6323 (714) 788-7746 FAX: (714) 788-5002	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
PLANS REVIEWED BY: Barry D. McClelle CITY OF MORENO VALLEY CITY OF ENGINEER R.C.E. #29459 DATE: 7-18-91		PLANS PREPARED UNDER THE DIRECTION OF: Donald W. Bergh DONALD W. BERGH EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91	APPROVED BY / DATE / BY: PRINCIPAL ENGINEER 9/19/91; TRAFFIC DIVISION 9-17-91; CHIEF P.W. ENGINEER 10-9-91 / 9/30/91
		MARK / REVISIONS / APPR. / DATE; DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.	APPROVED BY: PUBLIC WORKS DIRECTOR DATE 10/9/91

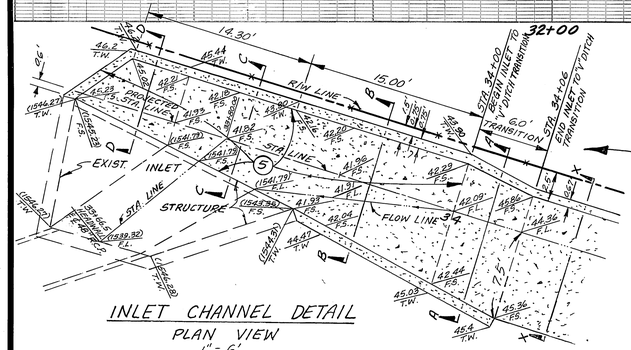
CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO
WEST BOUND HWY. 60
AND CONCRETE V-DITCH
PLAN AND PROFILE

W.O. | FOR: | F.B.

ACCOUNT NO. R-3218

SHEET 6 OF 7

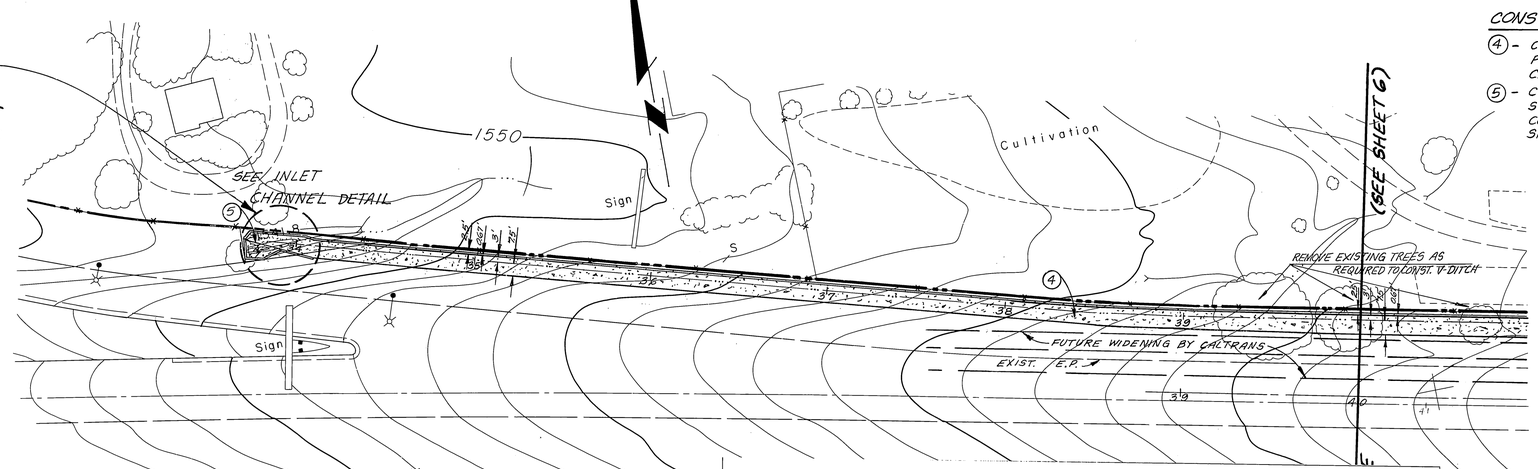




INLET CHANNEL DETAIL

PLAN VIEW

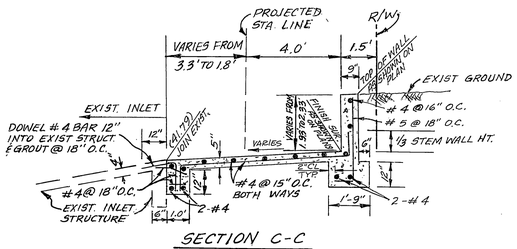
1" = 6'



CONSTRUCTION NOTES

4 - CONSTRUCT 5" THICK CONCRETE "V" DITCH PER DETAILS ON SHTS. 5 & 7 AND CALTRANS SPECIFICATIONS.

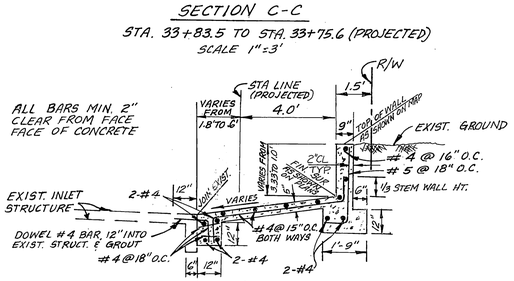
5 - CONSTRUCT CONCRETE INLET STRUCTURE PER DETAILS HEREON. CONCRETE MIX PER CALTRANS SPECIFICATIONS.



SECTION C-C

STA. 33+83.5 TO STA. 33+75.6 (PROJECTED)

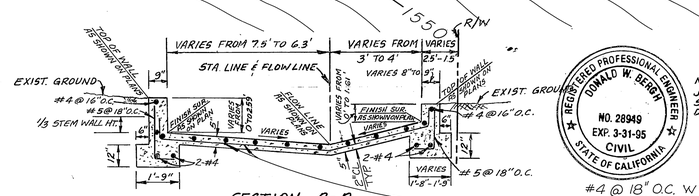
SCALE 1" = 3'



SECTION D-D

STA 33+75.6 (PROJECTED) TO STA 33+67.45 (PROJECTED)

SCALE 1" = 3'



SECTION A-A

STA. 34+06 TO STA. 34+00

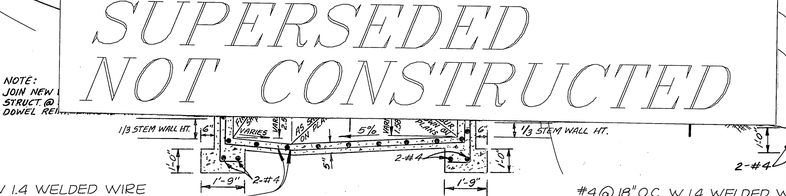
SCALE 1" = 3'

#4 @ 18" O.C. W 1.4 WELDED WIRE MESH TREATED WITH CURING COMPOUND @ 6" O.C.

NOTE: JOIN NEW STRUCT. @ DOWEL REI...

REGISTERED PROFESSIONAL ENGINEER DONALD W. BERGH NO. 28949 EXP. 3-31-95 CIVIL STATE OF CALIFORNIA

SUPERSEDED NOT CONSTRUCTED

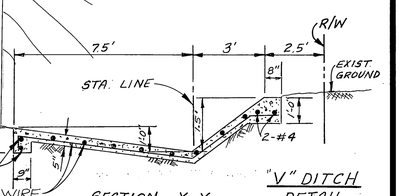


SECTION B-B

STA 34+00 TO STA. 33+83.5

SCALE 1" = 3'

#4 @ 18" O.C. W 1.4 WELDED WIRE MESH TREATED WITH CURING COMPOUND @ 6" O.C.



SECTION X-X

STA. 34+06 TO STA. 40+25

SCALE 1" = 3'

"V" DITCH DETAIL

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

DATE

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PLANS REVIEWED BY: Barry D. McClellan
CITY OF MORENO VALLEY CITY OF ENGINEER R.C.E. # 29459
DATE: 7-18-91

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PLANS PREPARED UNDER THE DIRECTION OF: DONALD W. BERGH
EXPIRATION DATE: 3-31-95 R.C.E. NO. 28949 DATE 7-18-91

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.A. DRAWN BY L.S. CHECKED BY S.R.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY PRINCIPAL ENGINEER	7/19/91	
TRAFFIC DIVISION	7-17-91	
CHIEF P. W. ENGINEER	10/8/91	

APPROVED BY PUBLIC WORKS DIRECTOR
DATE 10/9/91

CITY OF RIVERSIDE
CANYON SPRINGS PLAZA
DAY STREET ON-RAMP TO WEST BOUND HWY. 60 AND CONCRETE V-DITCH
PLAN AND PROFILE

W.O. FOR: F.B.

ACCOUNT NO. R-3218

SHEET 7 OF 7

FILE NO.