# RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE — INCORPORATED 1883

## PUBLIC WORKS DEPARTMENT

# CENTRAL AVENUE EXTENSION

## CANYON CREST TO U.S. 395

PROJECT LENGTH - 6400'

TRAFFIC INDEX : 7.5

## SPECIAL CONSTRUCTION NOTES

(1) CONSTRUCT STRUCTURAL SECTION OF 0.4* ASPHALT CONCRETE OVER COMPACTED FILL OR COMPACTED NATIVE MATERIAL.
* SEE STRUCTURAL SECTION SCHEDULE BELOW△

(2) REMOVE ENTIRE TREE : CLASS I : OVER 6" TO 18" DIA.
CLASS II : OVER 18" TO 36" DIA.
CLASS III : OVER 36" DIA.

(200) CONSTRUCT CURB AND GUTTER PER STD. 200.

(201) CONSTRUCT 6" CURB AND GUTTER PER STD. 201, TYPE A-2.

(250) PLACE 6" ASPHALT CONCRETE BERM PER STD. 250.

(302) CONSTRUCT DRIVEWAY APPROACH PER STD. 302.

(350 A) CONSTRUCT SIDEWALK PER STD. 350A.

(5) LINE SWALE WITH 0.2' OF GUNITE CONCRETE TO PROTECT FLOWLINE. SEE DETAIL ON SHEET 4. LENGTH OF PROTECTION SHOWN AT EACH OCCURANCE.

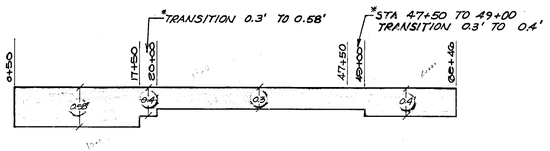
(6) GRADE 1' DEEP DITCH AND LINE WITH 0.2' OF GUNITE CONCRETE. SEE DETAIL ON SHEET 5. LENGTH SHOWN AT EACH OCCURANCE.

(7) PLACE ONE FOOT OR LARGER ROCK FOR SLOPE PROTECTION AT END OF PIPES OR DRAINAGE SWALES. AREA TO BE 3'X3' UNLESS NOTED OTHERWISE

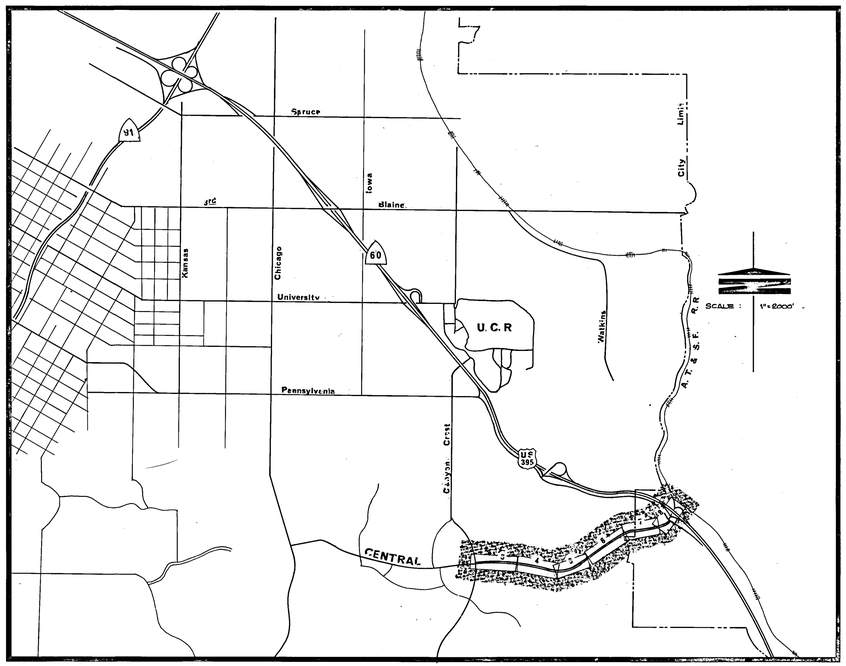
(8) LINE MEDIAN DITCH WITH 0.2' THICK ASPHALT CONCRETE. LINING TO BE 2' WIDE EXCEPT WHERE OTHERWISE NOTED.

+ GRID POINT

△ CONTROL LINE POINT




### STRUCTURAL SECTION SCHEDULE △




## GENERAL CONSTRUCTION NOTES

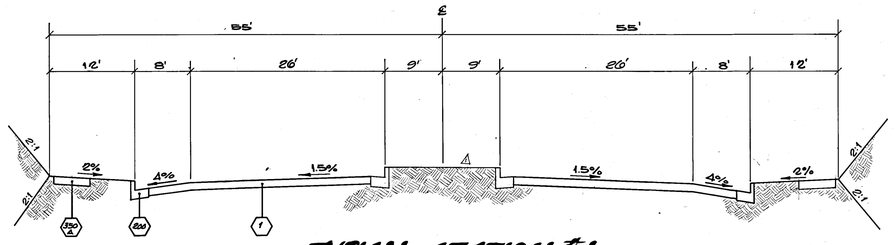
1. TRANSITION NEW CONSTRUCTION TO MEET EXISTING FACILITIES AS DIRECTED BY THE INSPECTOR.
2. EXISTING AND PROPOSED UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM AVAILABLE RECORDS. LOCATIONS AND DEPTHS ARE APPROXIMATE. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITY FACILITIES.
3. WHERE NEW CONSTRUCTION IS INDICATED:
   a) CLEAR AND GRUB.
   b) REMOVE TREES.
4. ALL C.M.P. SPECIFIED ON THE PLAN SHALL BE AT LEAST 14 GAUGE.
5. RELOCATE OR EXTEND FENCES, IN KIND, WHERE REQUIRED ON PLAN.
6. TRAFFIC SIGNS REMOVED DURING CONSTRUCTION SHALL BE SALVAGED BY THE CONTRACTOR AND RELOCATED AS DIRECTED BY THE INSPECTOR.
7. UNLESS OTHERWISE NOTED ON PLAN: ALL SLOPES TO BE 2:1. SLOPES LESS THAN 2' HIGH ARE NOT NECESSARILY SHOWN ON THE PLAN.
8. GRADE AS NECESSARY TO ALLOW FLOW TO AND FROM PROPOSED DRAINS AND DITCHES.
9. RIGHTS-OF-ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN ON PRIVATE PROPERTY.

21284

*AS BUILT 5-31-74 RJM

△ ADDED STRUCTURAL SECTION SCHEDULE PER CHANGE ORDER NO. 5. RJM 4 DEC 73

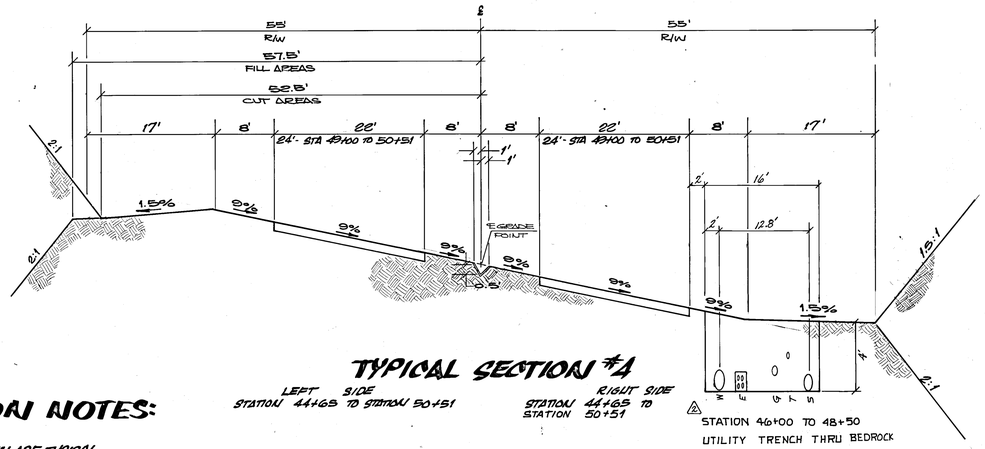
| CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT | | | | Central Avenue Extension | ACCOUNT No. 348 |
|---|---|---|---|---|---|
| APPROVED BY | BY | DATE | APPROVED BY | Canyon Crest to U.S. 395 | DRAWING NUMBER R-1442 |
| PRINCIPAL ENGINEER | | 7/10 | | | |
| PARK DEPARTMENT | — | — | DIRECTOR OF PUBLIC WORKS | | |
| TRAFFIC DIVISION | — | — | | | SHEET 1 OF 8 |
| CHIEF PUB. WKS. ENGR. | | 5.21 | DATE | DESIGNED BY BE DRAWN BY [illegible] CHECKED BY | |




## TYPICAL SECTION #1

LEFT SIDE
STATION 8+95 TO STATION 18+21

RIGHT SIDE
STATION 0+50 TO STATION 10+50




## TYPICAL SECTION #4

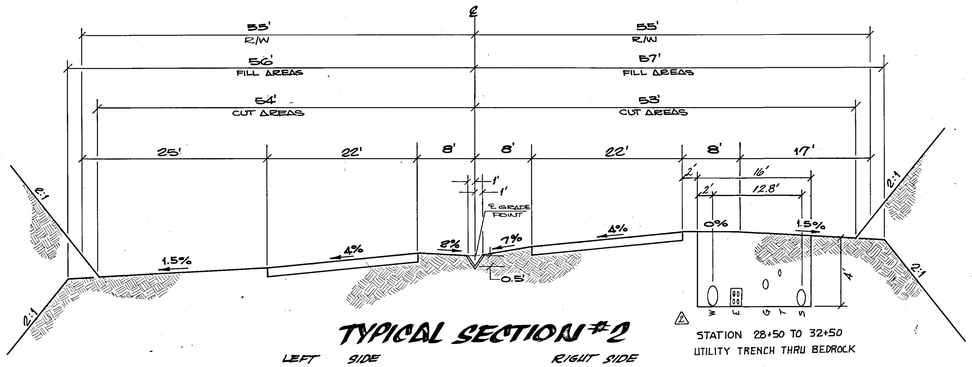
LEFT SIDE
STATION 44+65 TO STATION 50+51

RIGHT SIDE
STATION 44+65 TO STATION 50+51

STATION 46+00 TO 48+50
UTILITY TRENCH THRU BEDROCK

## TYPICAL SECTION NOTES:

1. THE CROSS SLOPES SHOWN ARE TYPICAL AND SHALL APPLY ONLY WHERE THE PROPOSED PAVEMENT GRADES ARE NOT SHOWN ON THE PLAN SHEET PROFILES.
2. STATIONS FOR THE AREAS OF ROADWAY GEOMETRIC TRANSITIONS ARE NOT LISTED.
3. ROUND TOP OF PROPOSED SLOPES A MINIMUM OF 3' AS DIRECTED.

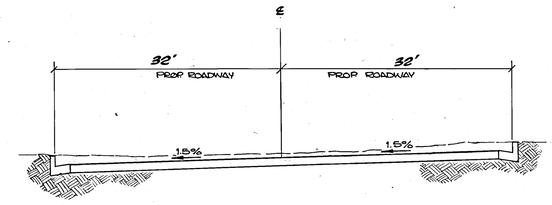



## TYPICAL SECTION #2

LEFT SIDE
STATION 18+60 TO STATION 33+65

RIGHT SIDE
STATION 17+54 TO STATION 33+65

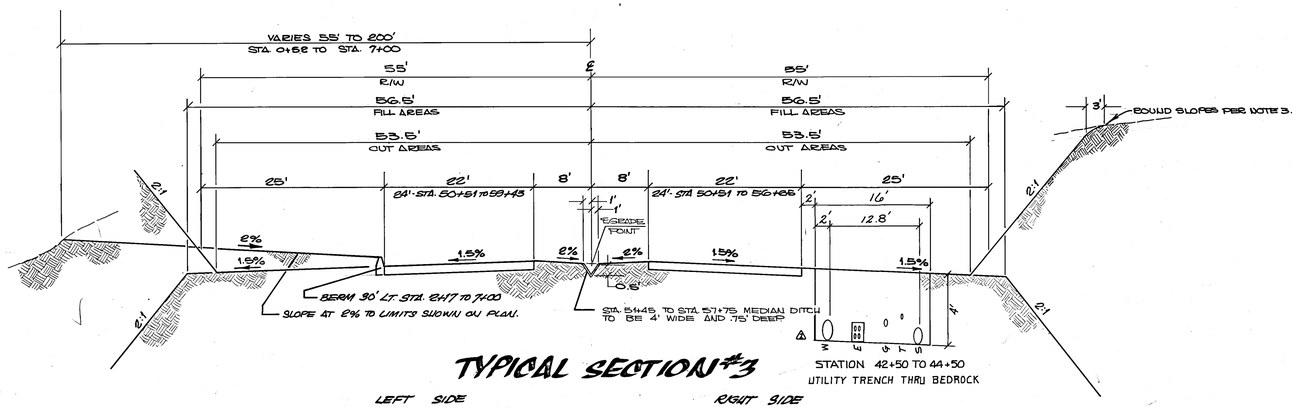
STATION 28+50 TO 32+50
UTILITY TRENCH THRU BEDROCK




## TYPICAL SECTION* 5

LEFT SIDE
STATION 60+27 TO STATION 62+10

RIGHT SIDE
STATION 60+27 TO STATION 62+10




## TYPICAL SECTION #3

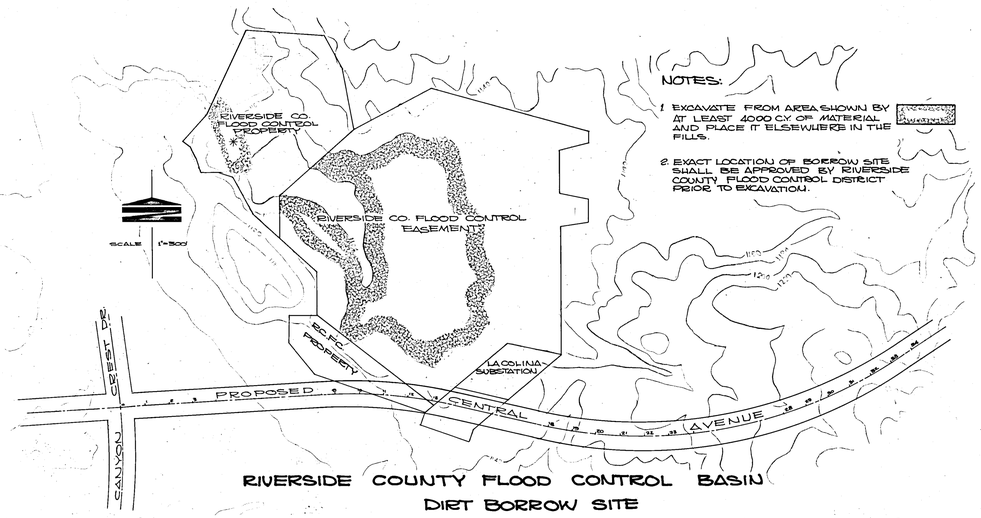
STATION 42+50 TO 44+50
UTILITY TRENCH THRU BEDROCK

LEFT SIDE

| | | |
|---|---|---|
| STATION | 2+17 | TO STATION 7+00 |
| STATION | 33+65 | TO STATION 44+64 |
| STATION | 50+51 | TO STATION 59+43 |

RIGHT SIDE

| | | |
|---|---|---|
| STATION | 2+17 | TO STATION 17+54 |
| STATION | 33+65 | TO STATION 44+65 |
| STATION | 50+51 | TO STATION 56+65 |




## RIVERSIDE COUNTY FLOOD CONTROL BASIN
## DIRT BORROW SITE

*AS BUILT 5-28-74 RJM

| MARK | REVISIONS | APPR. | DATE |
|---|---|---|---|
| 1 | ADDED CURB & GUTTER TO MEDIAN PER CHANGE ORDER NO. 1 | | 6 DAYS 7/24/85 |
| 2 | ADDED UTILITY TRENCH | | |

DESIGNED BY BE DRAWN BY [illegible] CHECKED BY [illegible]

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

| APPROVED BY | BY | DATE |
|---|---|---|
| PRINCIPAL ENGINEER | [illegible] | 9/20 |
| PARK DEPARTMENT | – | – |
| TRAFFIC DIVISION | [illegible] | 9/16 |
| CHIEF PUB. WKS. ENGR. | [illegible] | 9.21 |

APPROVED BY [illegible]
DIRECTOR OF PUBLIC WORKS
DATE 9-22-71

# Central Avenue Extension
Canyon Crest to U.S. 395

TYPICAL SECTION SCALES: HOR., 1"=10'; VERT., 1"=4'

ACCOUNT No. 548
DRAWING NUMBER R-1442
SHEET 2 OF 8

PROP. TC. 43' RT. OF CONST. ℄

PROP. GRADE 35' RT. OF CONST. ℄

PROP. CONST. ℄ GRADE

EXIST. SURFACE AT CONST. ℄

PROP. GRADE 35' LEFT OF CONST. ℄

PROP. TC. 43' LEFT OF CONST. ℄

IDENTICAL POINTS

℄ CROSS GUTTER

PROP. LT. MEDIAN TC.

PROP. RT. MEDIAN TC.

F.L. "X" GUTTER

NOTE: DO NOT USE H-B-D BENCH MARK FOR ON-SITE CONST.

FB. 868/1-30, 40-66
955/17-18, 23-24
B.M. CITY MON. 1-8-D
ELEV. 1120.7

0441 WEST EXIST. PAVEMENT

3.02%

2.91%

2.79%

2.68%

2.58%

0 1 2 3 4 5 6 7 8 9 10

## CONSTRUCTION NOTES

1. REMOVE EXIST. A.C. BERM BETWEEN STA. 3+87.34 AND 7+07.34.
2. CONST. CROSS GUTTER AND APRON PER STD. DWG. N° 220.
3. CONST. PROPERTY LINE SIDEWALK PER STD. DWG. N° 325.
4. CONST. ACCESS RAMP PER STD. DWG. N° 304.
5. CONST. CURB AND GUTTER PER STD. DWG. N° 200, 6" C.F.

CANYON CREST DRIVE

0400 CENTRALE
2400 CANYON CREST

N 86° 16' 20" E

N 83° 46' 20" E

MEET EXIST. PVMT.

CENTRAL AVENUE

Riverside Co. Flood Control

GRADE TO LIMITS SHOWN AT 2% FROM TOP OF PROPOSED BERM.

*15" R.C.P. EXTENDED AND STD. 4-05 4' OPENING CONSTRUCTED

*REMOVE EXIST. CATCH BASIN TO 24" BELOW EXIST. GRADE AND COMPACT PLUG PIPES WITH CONCRETE.

*MODIFIED #425 STRUCTURE REMOVED

3+50 CONST. MEDIAN INLET PER DETAIL ON SHEET 5.

3+50-34' LT. CONSTRUCT INLET PER "MEDIAN INLET DETAIL" ON SHEET 4. 5' LENGTH 4' OPENING IN 1000 BEGIN AND PAVE WITH 0.2' AC TO BOX WINDOW.

INSTALL 30' LF OF 15" RCP, 2000-D AT 5%

*MODIFY #425 STRUCTURE. WINDOW PLUGGED, RING & COVER ADJUSTED TO GR.

INSTALL 265 LF OF 15" RCP, 2000-D AT 2.80% BREAK INTO EXIST. CATCH BASIN.

*REMOVE EXIST. CURB & GUTTER THAT IS IN CONFLICT WITH PROP. CURB & GUTTER.

PAVE MEDIAN WITH 0.2' OF AC.

PAVE WITH 0.2' AC

4 CLASS I TREES PREVIOUSLY REMOVED

LAYOUT AND LOCATION OF MEDIAN DESIGN SIDEWALK TO BE DETERMINED IN SITE APPROVAL BY CITY ENGINEER REQUIRED PRIOR TO CONSTRUCTION.

NOTE: DO NOT USE H-B-D BENCH MARK FOR ON-SITE CONST.

CURB RETURN DATA:
Δ = 90°00'00"
R = 35.00'
L = 54.98'
T = 35.00'

CURB RETURN DATA
Δ = 90°00'00"
R = 35.00'
L = 54.98'

| CURVE | DATA | | | |
|---|---|---|---|---|
| | R | Δ | L | T |
| (1) | 2000' | 16° 00' 00" | 558.76' | 281.08' |

CAUTION
PACIFIC TELEPHONE
CABLES UNDERGROUND
BEFORE EXCAVATING
CALL COLLECT:
7:30 A.M. to 5 P.M.
After Hours & Holidays
Orange County 714 631-0911 714 547-6606
Riverside County 714 684-0071 714 547-6606

AS BUILT 5-28-74 RJM

21289

346

Central Avenue Extension
Canyon Crest to U.S. 395

R-4442

3

8'

JOB 4404 DATE 5556 TO 3605

PROP T.C. 45' LEFT OF CONST.E.

PROP GRADE 35' LEFT OF CONST.E.

PROP LEFT MEDIAN T.C.

CONST.E.

3.325%

2.58%

PROP RIGHT MEDIAN T.C.

EXIST. SURFACE AT CONST.E.

PROP E.P. 30' RIGHT OF CONST.E.

RB. 868/1-36, 10-66
B.M. CITY MSM. H-8-F
ELEV. 1156.7

10 11 12 13 14 15 16 17 18 19 20 21 22

5 — 2:1 — 1.5' 1.5' — .75'

PROP SLOPE

LINE WITH 0.2' THICK GUNITE CONCRETE.

EXIST SURFACE GRADE AS NEEDED

5 SWALE PROTECTION DETAIL
NO SCALE

CONSTRUCT DIKE PER DETAIL BELOW.

R.O.F.C.

PUE

LA COLINA SUBSTATION

PROPOSED FIRE STATION

108 LF

*INSTALL 22 LF OF 15" RCP CDOO-D AT 2.0% DIRECT FLOW DOWN PAVED SWALE.

*13+70 ± 13+90 CONSTRUCT 4' CATCH BASIN PER STD 305, V=4.0'

CONSTRUCT 6" THICK PCC DRIVEWAY TO MEET EXIST. GATE.

ELEV. 1163±

FILL GULLY TO LIMITS SHOWN AND GRADE AT 19%±

19+00 CONSTRUCT MEDIAN INLET PER DETAIL ON SHEET 6

STA ROAD TO STA 19+00

STATION 10+00

1140 TOP OF DIKE ELEV.

11+80 END DIKE

END DIKE

STATION 22+00

CENTRAL AVENUE

S 77°56'20" E

6" A.C. PAVING

PAVE WITH 0.2' AC

CLASS I

CLASS I

CONSTRUCT DIKE OF IMPORTED OR NATIVE MATERIAL. 90% RELATIVE COMPACTION.

1140 TOP ELEV.

DIKE DETAIL
STA 9+35 TO STA. 11+80
NO SCALE

| CURVE DATA | | | | |
|---|---|---|---|---|
| | R | Δ | L | T |
| (1) | 2000' | 16° 00' 00" | 558.50' | 281.08' |
| (2) | 2000 | 46° 07' 40" | 1610.58' | 851.58' |

INSTALL 70 LF OF 15" RCP 2000-D AT 3.0% DIRECT FLOW DOWN PAVED SWALE.

8 140 LF

A ADDED MEDIAN "C" INLET & GUTTER

*AS BUILT 5-28-74 KJM

21286

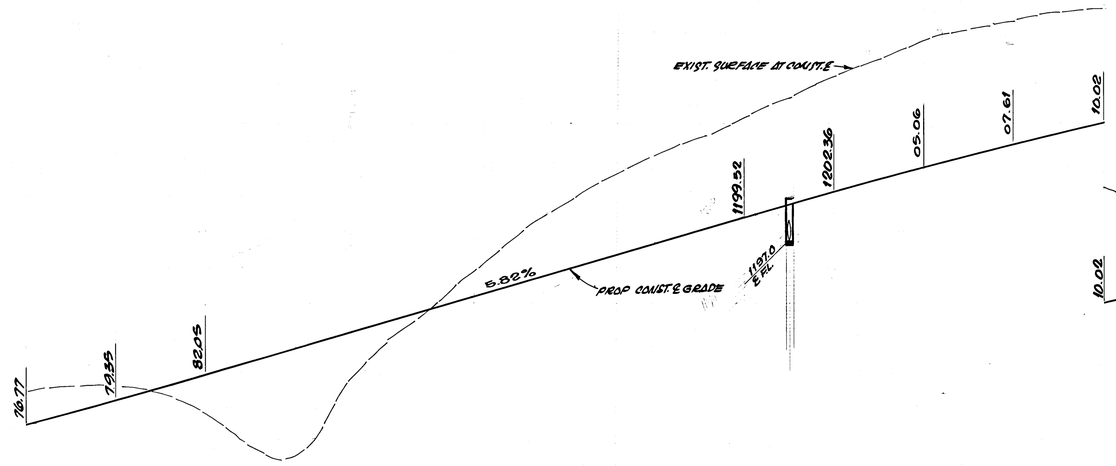
CITY OF RIVERSIDE
DEPARTMENT OF PUBLIC WORKS

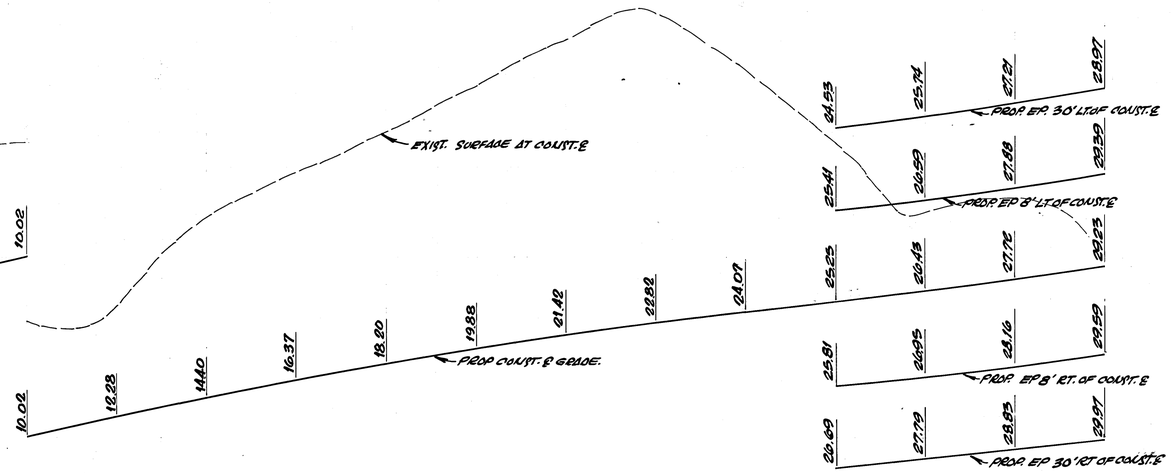
Central Avenue Extension
Canyon Crest to U.S. 395

R-1442

348

4 8

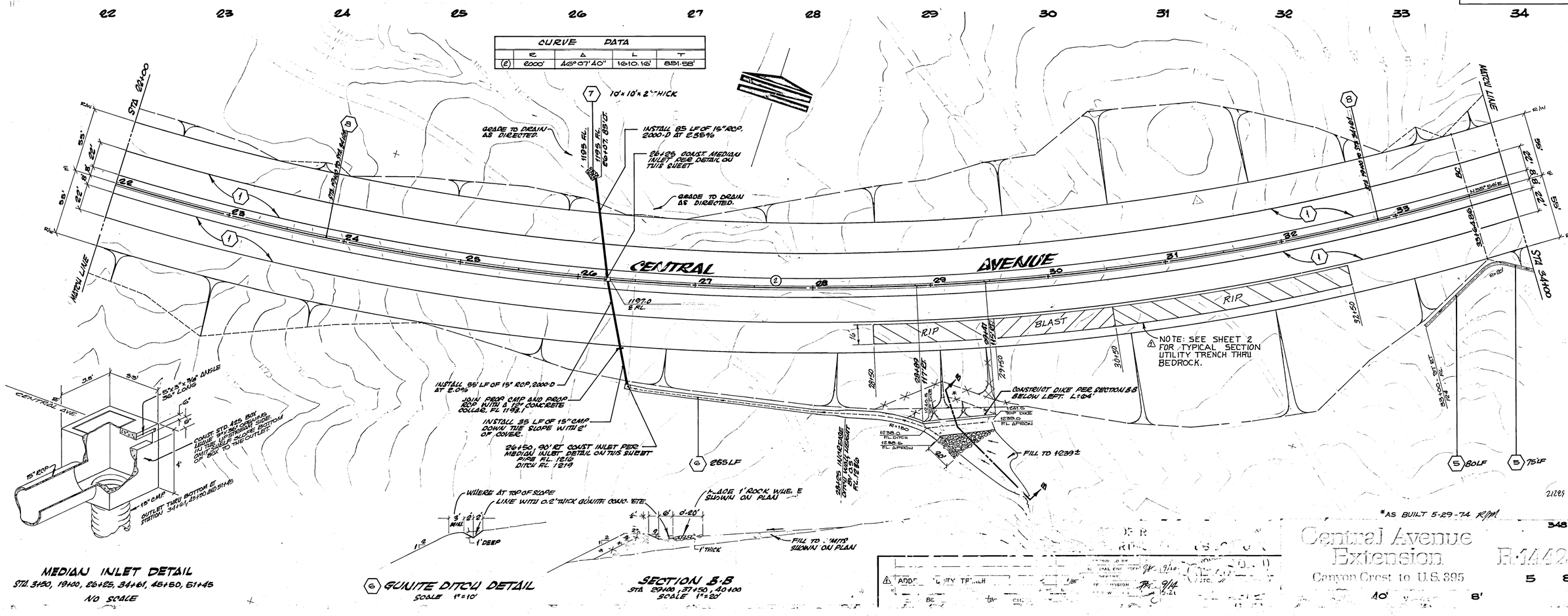



F.B. 868/1-36, 10-66
953/17-18, 22-24
B.M. CITY M.O.U. 149.8
ELEV. 1258.0

22 23 24 25 26 27 28 29 30 31 32 33 34

| CURVE DATA | | | | |
|---|---|---|---|---|
| | ℄ | Δ | L | T |
| (℄) | 6000' | 16°07'40" | 1610.16' | 851.58' |







MEDIAN INLET DETAIL
STA 3+50, 19+00, 26+25, 34+61, 46+50, 61+45
NO SCALE

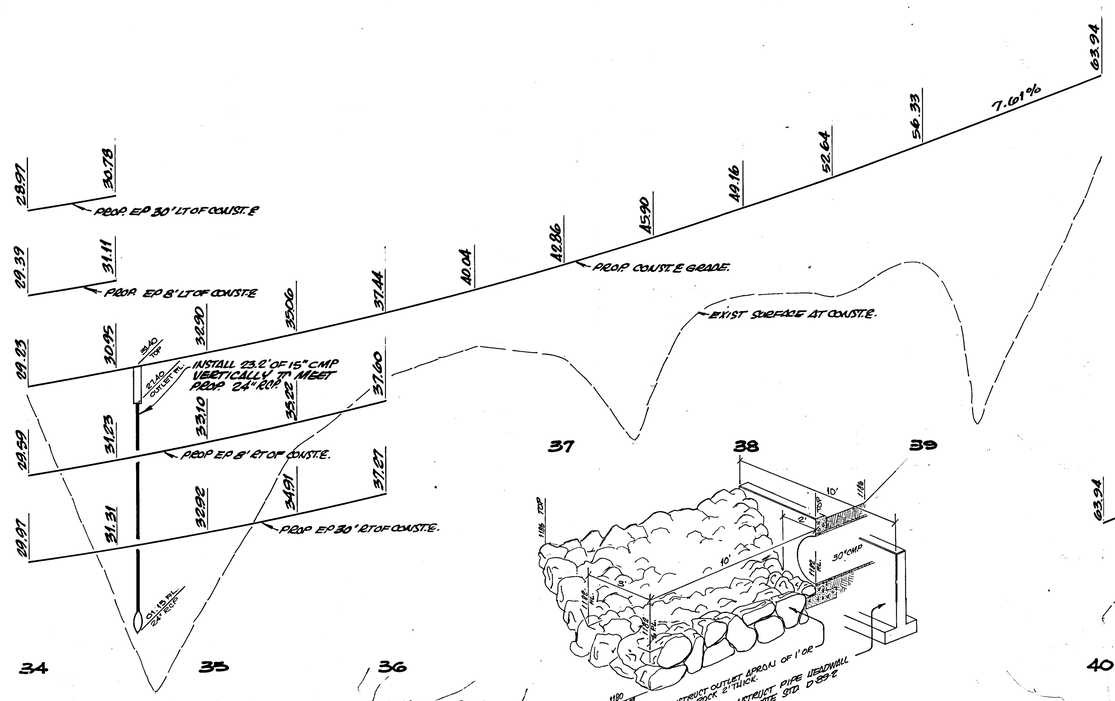



⑥ GUNITE DITCH DETAIL
SCALE 1"=10'

SECTION B-B
STA 24+00, 27+50, 40+00
SCALE 1"=20'

| ADD | BY | DATE |
|---|---|---|
| | | 9/10 |
| | | 9/14 |

Central Avenue Extension
Canyon Crest to U.S. 395
R-1442
5 8
40' 8'







CONSTRUCT OUTLET APRON OF 1' OR LARGER ROCK 8" THICK.

CONSTRUCT PIPE HEADWALL PER STATE STD D-89-2

**RIPRAP OUTLET STRUCTURE**

STATION 35+42 -150 LT.
NO SCALE

| CURVE DATA | | | | |
|---|---|---|---|---|
| | R | Δ | L | T |
| (8) | 1200' | 28° 04' 41" | 588.00' | 300.00' |

63.94
7.61%
67.75
71.31
74.87
78.37
81.88
85.28
88.57
91.75
94.65
97.61
00.26
02.57
71.64
75.20
78.80
81.84
84.93
87.90
90.76
93.46
96.00
98.36
00.51
71.48
75.04
78.44
81.68
84.75
87.67
90.42
93.01
95.44
97.70
99.80
71.64
75.18
78.50
81.64
84.60
87.44
90.08
92.56
94.88
97.04
99.09
71.91
74.85
78.17
81.31
84.19
86.80
89.14
91.42
93.54
95.22
97.16
PROP EP 30' LT OF CONST.E
PROP EP 8' LT OF CONST.E
PROP CONST.E GRADE
PROP EP 8' RT OF CONST.E.
PROP EP 30' RT OF CONST.E.
EXIST SURFACE AT CONST.E
97.70 CFS
96.30 OUTLET FL.
97.04
INSTALL 8.0' OF 15" CMP. VERTICALLY TO MEET PROP. 15" RCP.
96.46 OUTLET FL.

P.B. 868/1:30, 10:66 955/17-18, 22-24
B.M. CITY MON. H-9-C
ELEV. 1248.4

GRADE TO DRAIN AS DIRECTED.

35+42 150' LT. CONST. HEADWALL AND ROCK RIPRAP APRON PER DETAIL ABOVE

FILL TO 1187

* 34+80-25 LT. 15" PIPE CP

INSTALL 273 LF OF 24" RCP, 3000-D AT 11.7%

STA. 34+00

STA 46+00

CENTRAL AVENUE

N 55° 50' 00" E

34 35 36 37 38 39 40 41 42 43 44 45 46

55' 22' 8' 8' 22' 55'

R/W

* 70± CONSTRUCT DROP INLET PER DETAIL ON SHEET 5. INSTALL 23.2' OF 15" CMP FROM THE BOTTOM OF THE BOX TO THE 24" RCP.

MATCH LINE

34+29.- 10A' RT. CONST. PIPE HEADWALL PER STATE STD. D-89-2 H=3'8" L=8'6" PIPE FL. 1201.0 TOP OF HEADWALL 1210.67

17 CLASS I TREES

10'X10'X2" THICK

855 LF

FILL GULLY TO LIMITS SHOWN AND GRADE.

2%

RIP

42+65

44+00

42+50

NOTE: SEE SHEET 2 FOR TYPICAL SECTION UTILITY TRENCH THRU BEDROCK

46+50 CONSTRUCT DROP INLET PER DETAIL ON SHEET 5. INSTALL 9.2' OF 15" CMP FROM BOTTOM OF THE BOX TO THE 15" RCP.

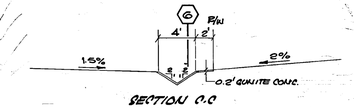
45+41 -110 LT. CONST. PIPE HEADWALL PER STATE STD. D-89-2, H=2'11" L=8.0' PIPE FL. 1207.42 TOP OF HEADWALL 1210.34

6'LONG X 4' WIDE X 2' THICK

GRADE TO DRAIN AS DIRECTED.

46+55 -65' RT. CONST. PIPE HEAD WALL PER STATE STD. D-89-2, H=7'0" L=8'0" PIPE FL. 1288.42 TOP OF HEADWALL 1292.34

*AS BUILT 5-29-74




SECTION C-C
NO SCALE

⚠ ADDED UTILITY TRENCH GRID

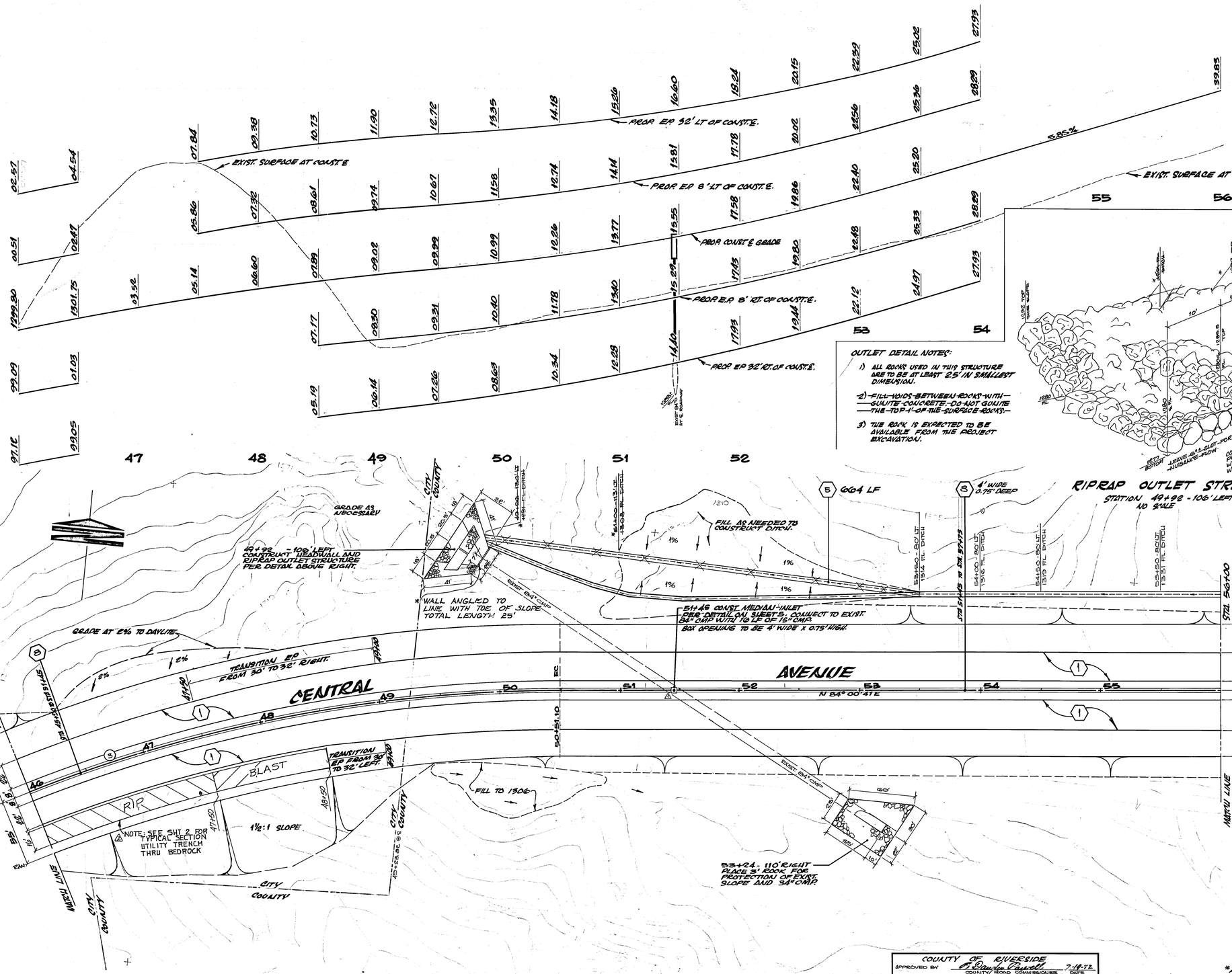
REVISIONS

BE DRAWN BY CH

Central Avenue Extension R-1442
Canyon Crest to U.S. 395
2/1/84
6 8
40' 8'

548

F.B. 868/1-36, 40-66
955/17-18, 22-24
B.M. CITY MON. H-9-E
ELEV. 1312.5







## RIPRAP OUTLET STRUCTURE

STATION 49+92 - 106' LEFT
NO SCALE

| CURVE DATA | | | | |
|---|---|---|---|---|
| | R | Δ | L | T |
| (1) | 1200' | 28°04'41" | 588.08' | 300.06' |

△ ADDED MEDIAN INLET AT STA 51+46 by GHL 8-26-71
△ ADDED [illegible] BENCH by GHL 7-26-71
to 12-8-85

COUNTY OF RIVERSIDE
APPROVED BY E. Claude Cavell 7-14-72
COUNTY ROAD COMMISSIONER DATE

*AS BUILT 5-29-74 R/M

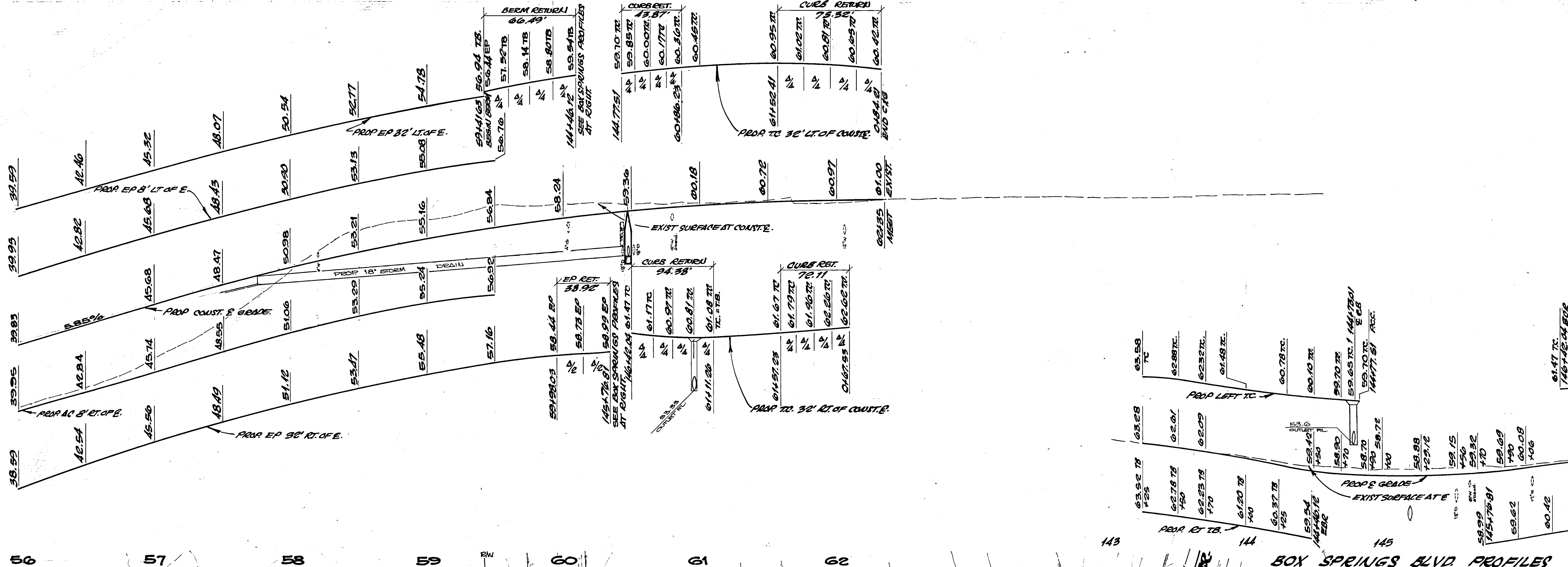
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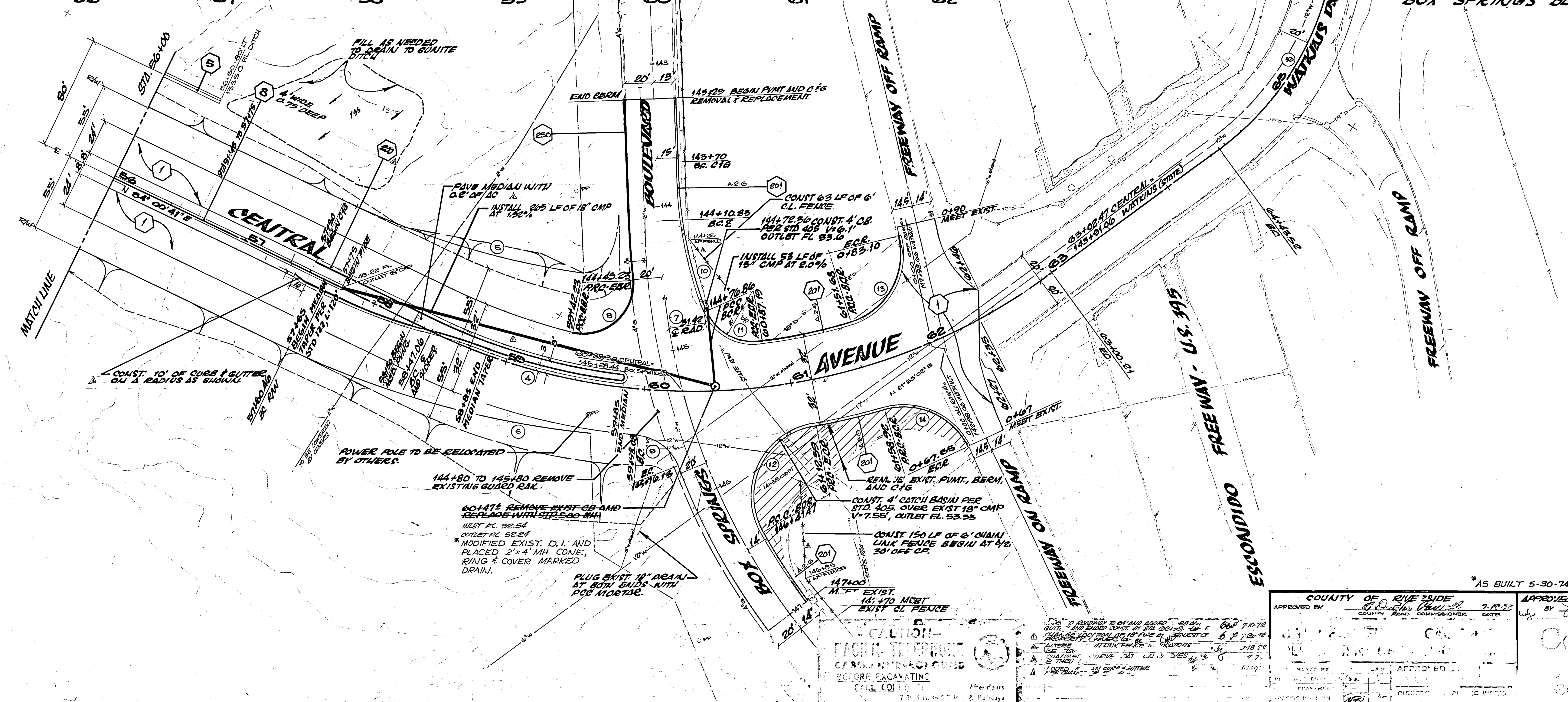
Central Avenue Extension 21289 R-1442
Canyon Crest to U.S. 395

7 8

40' 8'

F.B. 868/1-36, 40-66
953/17-18, 22-24
BM. CITY MON. H-9-H
ELEV. 1311.6




| | R | Δ | L | T |
|---|---|---|---|---|
| (4) | 420' | 62° 07' 39" | 455.42' | 253.00' |
| (5) | 505' | 20° 09' 39" | 177.70' | 89.78' |
| (6) | 615' | 21° 38' 47" | 231.81' | 117.30' |
| (7) | 500' | 38° 37' 33" | 337.07' | 175.22' |
| (8) | 35' | 108° 57' 55" | 66.56' | 49.04' |
| (9) | 35' | 63° 39' 14" | 38.88' | 21.72' |
| (10) | 280' | 21° 30' 57" | 105.12' | 53.19' |
| (11) | 35' | 71° 38' 43" | 43.77' | 25.26' |
| (12) | 50' | 108° 12' 43" | 94.43' | 69.09 |
| (13) | 50' | 86° 41' 06" | 75.65' | 47.19' |
| (14) | 50' | 82° 30' 38" | 72.04' | 43.86' |
| | | | | |
| (16) | 200' | 62° 05' 13" | 216.72' | 120.38' |

*AS BUILT 5-30-74

CAUTION — PACIFIC TELEPHONE CABLE UNDERGROUND — BEFORE EXCAVATING CALL COLLECT
7:30 a.m. to 5 P.M. | After Hours & Holidays
Orange County 714-633-0211 | 714-547-6606
Riverside County 714-684-4071 | 714-547-6606

COUNTY OF RIVERSIDE
APPROVED BY — COUNTY ROAD COMMISSIONER 7-18-72 DATE

APPROVED FOR CONST. WITHIN STATE R/W BY — DIRECTOR OF PUBLIC WORKS 4-20-72 DATE

348

Central Avenue Extension
Canyon Crest to U.S. 395

21289 R-14425

8 8

HORIZ. SCALE: 1" = 40' VERT. SC. 1" = 8'

# BOX SPRINGS BLVD. PROFILES

| CURVE DATA | | | | |
|---|---|---|---|---|
| | R | Δ | L | T |
| (4) | 460' | 62° 07' 59" | 455.42' | 253.00' |
| (5) | 505' | 20° 09' 29" | 177.70' | 89.78' |
| (6) | 615' | 21° 39' 47" | 231.81' | 117.30' |
| (7) | 600' | 38° 37' 55" | 337.07' | 175.22' |
| (8) | 35' | 108° 50' 25" | 66.49' | 48.92' |
| (9) | 35' | 63° 48' 27" | 38.97' | 21.75' |
| (10) | 280' | 22° 38' 10" | 110.63' | 56.05' |
| (11) | 35' | 71° 49' 17" | 43.87' | 25.35' |
| (12) | 50' | 108° 08' 58" | 94.38' | 69.01 |
| (13) | 50' | 86° 10' 39" | 75.32' | 46.88' |
| (14) | 50 | 82° 37' 48" | 72.11' | 43.95' |
| | | | | |
| (16) | 200' | 62° 06' 13" | 216.72' | 120.58' |

-CAUTION-
PACIFIC TELEPHONE
CABLES UNDERGROUND
BEFORE EXCAVATING
CALL COLLECT:
7:30 A.M. to 5 P.M. — After Hours & Holidays
Orange County ____ 714-633-0811 ____ 714-547-6606
Riverside County ____ 714-684-0071 ____ 714-547-6606

| MARK | REVISIONS | APPR. | DATE |
|---|---|---|---|
| | ADJUSTED RESPONSE TO 68' AND ADDED CURB AND GUTTER | | 9-10-72 |

DESIGNED BY BE DRAWN BY ____ CHECKED BY ____

COUNTY OF RIVERSIDE
APPROVED BY ____ COUNTY ROAD COMMISSIONER DATE ____

APPROVED FOR CONST. WITHIN STATE R/W
BY ____ DIRECTOR OF PUBLIC WORKS DATE ____

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

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

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE ____

# Central Avenue Extension
Canyon Crest to U.S. 395

PROJECT NO. 540
R-1442
SHEET 8 OF 8
FILE NO.

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 8'