

RIVERSIDE



CALIFORNIA

PUBLIC WORKS DEPARTMENT

CANYON SPRINGS TRUNK SEWER

CONSTRUCTION NOTES:

1. CONSTRUCT SHALLOW MANHOLE PER DETAIL 9 ON SHEET 23 AS MANUFACTURED BY ASSOCIATED CONCRETE PRODUCTS, INC. (714) 957-7470, OR APPROVED EQUAL.
2. CONSTRUCT DEEP MANHOLE W/SAFETY LEDGE, PER DETAIL 2, ON SHEET 22, AS MANUFACTURED BY ASSOCIATED CONCRETE PRODUCTS, INC., OR APPROVED EQUAL.
200. CONSTRUCT MANHOLE PER STD. 500, 60" DIA. UNLESS OTHERWISE NOTED ON PLAN. INTERIOR SURFACES OF SHAFT AND CONE TO BE LINED WITH PVC "FLOCK" (OR EQUAL) MANHOLE BASE, FRAME & COVER TO BE COATED PER (2) OF COATING AND LINING SCHEDULE ON SHEET 22. MANHOLE CONE AND SHAFT SHALL BE PRECAST CONCRETE (NOT BRICK) AS MFD. BY INLAND CONCRETE ENTERPRISES OR APPROVED EQUAL.
3. CONSTRUCT MANHOLE PER DETAIL 6 ON SHEET 23.
4. PROTECT EXISTING POWER PILE FROM DAMAGE OR SLIPOUT. CALL CITY OF RIVERSIDE, PUBLIC UTILITIES, ELECTRIC - JOHN JOHNSON, (TELE 787-7486) 2 WORKING DAYS PRIOR TO BEGINNING CONST. AND THE GENERAL TELEPHONE CO. (TELE (714) 960-8425) LOCAL HUTTMAN 2 WORKING DAYS PRIOR TO BEGINNING CONST.
5. EXISTING FENCE TO BE REMOVED PRIOR TO CONSTRUCTION AND REINSTALLED IN ORIGINAL LOCATION AFTER CONSTRUCTION. TEMPORARY 6' CHAINLINK CONSTRUCTION FENCE TO BE INSTALLED IN LOCATION SHOWN PRIOR TO THE REMOVAL OF EXIST FENCE.
200. EXISTING CURB & GUTTER IS TO BE PROTECTED. DAMAGE TO EXIST FACILITIES CAUSED DURING CONST. SHALL BE REPLACED PER CALTRANS STD. NO. A, TYPE "A2-S" FOR CONFIGURATION AND CITY OF RIVERSIDE, STD. 220 FOR MATERIAL AS DIR. BY ENG. (T.C. & R. TO MEET EXIST).

CAUTION: BEDDINGS INDICATED ON THE PLANS FOR SHALLOW PIPE (LESS THAN 3' OF ACTUAL COVER) ARE BASED UPON THE EXISTING SURFACE PLOTTED FROM AERIAL TOPOGRAPHY. THE ACTUAL COVER AS DETERMINED BY CUT SHEETS * MAY VARY FROM DESIGN. FIELD REVISIONS SHALL BE MADE TO MEET EXIST FIELD CONDITIONS. THE BASIS OF SUCH FIELD REVISIONS SHALL BE AS FOLLOWS:

ACTUAL COVER AS DEFINED BY CUT SHEETS *	BEDDING CASE REQUIRED
< 1.5'	CASE IV OR REVISION OF GRADE TO OBTAIN ADEQUATE COVER. METHOD AS DETERMINED BY ENGINEER.
1.5' to 2.0'	CASE III
2.0' to 3.0'	CASE II
> 3.0'	CASE I

- (M) INDICATES BEDDING CASE AS SHOWN WITH A ONE BAG CEMENT SLURRY SAND BACK FILL TO SURFACE OR SUBGRADE.
NOTE: ALL LOCATIONS WHERE COVER IS LESS THAN 3' = (M)

LEGEND

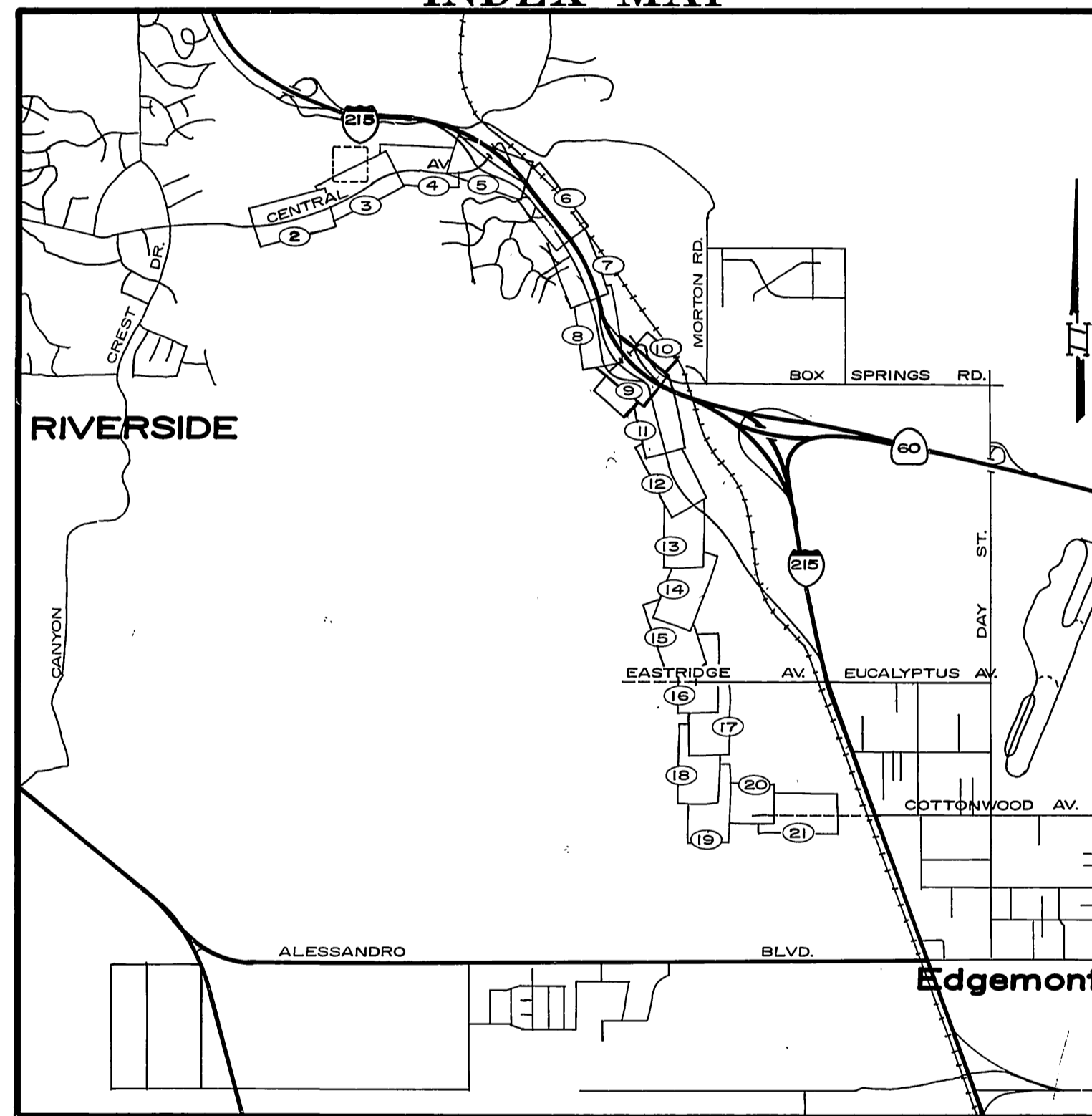
- ⊙ B# INDICATES APPROX LOCATION OF A GEOTECHNICAL BORING PERFORMED BY LEIGHTON AND ASSOC.
- ⊞ T# INDICATES APPROX LOCATION OF A GEOTECHNICAL TRENCHING PERFORMED BY LEIGHTON AND ASSOC.

REFER TO GEOTECHNICAL INVESTIGATION REPORT, DATED MAY 21, 1988, PREPARED BY LEIGHTON AND ASSOCIATES.

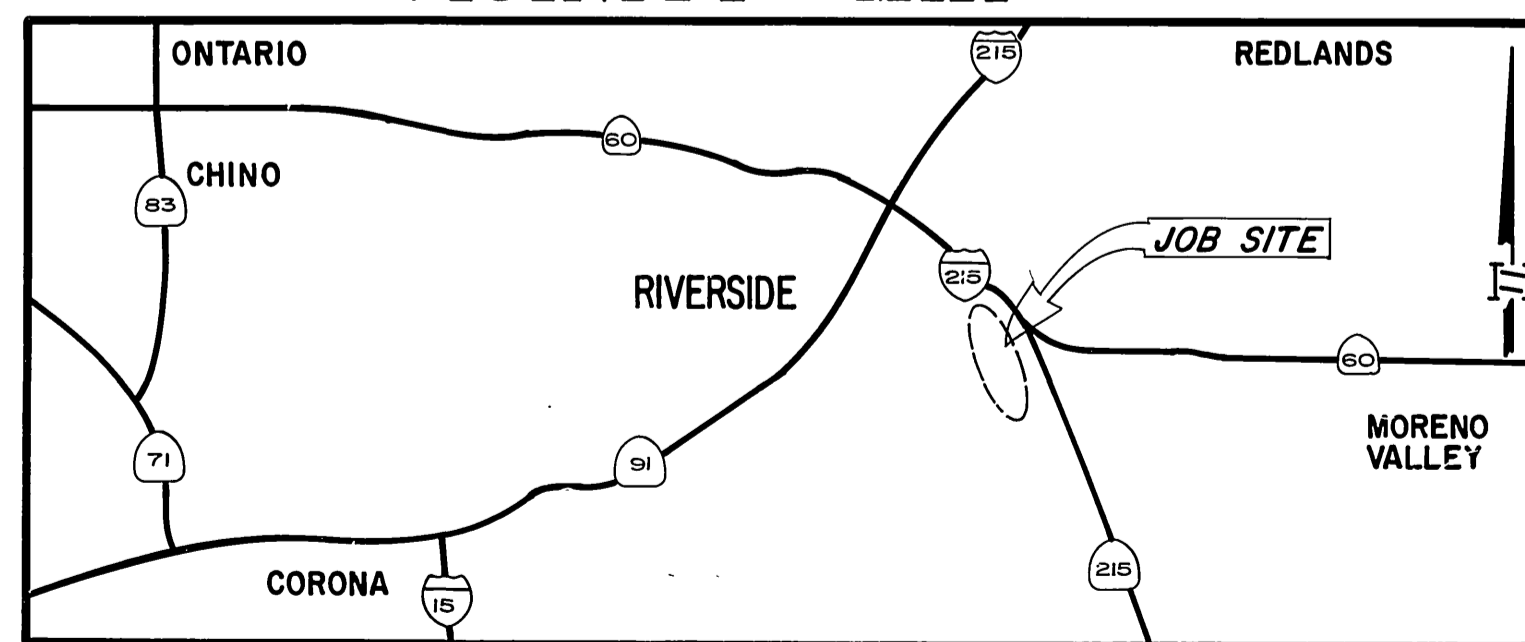
FOR ADDITIONAL GEOTECHNICAL INFORMATION, REFER TO "SHALLOW REFRACTION SEISMIC SURVEY PROPOSED SYCAMORE CANYON BUSINESS PARK SEWER EXTENSION", DATED JUNE 27, 1980 PREPARED BY PACIFIC SOILS ENGINEERING, INC. AND "SUBSURFACE INVESTIGATION CENTRAL AVENUE EXTENSION", DATED SEPTEMBER 23, 1971, PREPARED BY T. FUNNENKOTTER. ALL REPORTS ARE AVAILABLE AT THE CITY OF RIVERSIDE.

* WHERE THE OFFSET STAKE ELEV VARIES MORE THAN 0.2' FROM THE PIPE ELEV (AT THE GROUND SURFACE), THE SURVEY CREW WILL TAKE ELEV SHOTS TO DETERMINE THE ACTUAL CUT FROM THE GROUND SURFACE TO THE INVERT OF THE PIPE.

INDEX MAP

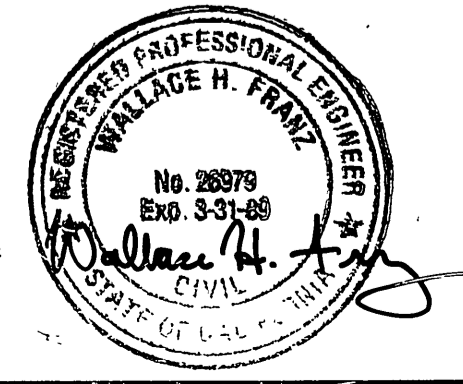


VICINITY MAP



GENERAL NOTES:

1. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. NEITHER THE CITY OR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN, OR NOT IN LOCATION SHOWN. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER OR NOT SHOWN.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
3. THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS AS SET FORTH IN SECTION 64630, TITLE 22 OF THE CALIFORNIA ADMINISTRATIVE CODE.
4. SEWER ELEVATIONS SHOWN ARE TO INVERT (FLOWLINE) OF CONDUIT.
5. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN.
6. ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISH GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL BE SET TWO (2) FEET ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON THE PLAN.
7. SEWER PIPE ZONE AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL DRAWINGS AND SPECIFICATIONS. BEDDING CLASS IS SHOWN ON CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" (U.S.A) AT 1-800-422-4133 FOR FIELD LOCATION OF UTILITIES.
9. TO PREVENT DAMAGE TO PORTABLE IRRIGATION LINES, THE CONTRACTOR SHALL REMOVE LINES FROM CONST. AREA AND DELIVER TO A SITE SPECIFIED BY THE OWNER. ANY DAMAGE TO EXIST IRRIGATION SYSTEM IS TO BE REPAIRED IN AN EXPEDITIOUS MANNER, BY THE CONTRACTOR, TO THE OWNER'S SATISFACTION. EXIST ROAD CROSSING CASINGS (FOR IRRIG. LINES) REMOVED DURING CONST. SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1985 EDITION, AND 1986 SUPPLEMENT, ALONG WITH CITY OF RIVERSIDE STANDARD DRAWINGS.
11. PIPE SLOPES AND LENGTHS SHOWN IN THE PROFILE ARE FROM MANHOLE TO MANHOLE ON ALL BUT THE 24" DIA AND 27" DIA PIPES. THE PIPE SLOPES AND LENGTHS FOR THE 24" DIA AND 27" DIA PIPES ARE FROM GRADE BREAK TO GRADE BREAK SHOWN.
12. ALL MANHOLE STEPS SHALL BE PLASTIC, REINFORCED WITH 1/2" DIA STEEL BAR. TREAD SHALL BE OF THE "NON-SKID" TYPE WITH SIDES RAISED TO PREVENT SLIPPING (AS MFG. BY M.A. INDUSTRIES, INC. OR APPROVED EQUAL).
13. ALL MANHOLES DEEPER THAN 12' TO THE SHELF SHALL BE EQUIPPED WITH A "SAFETY CLIMB" AS MFG. BY NORTH CONSUMER SAFETY PROD. OR APPROVED EQUAL.



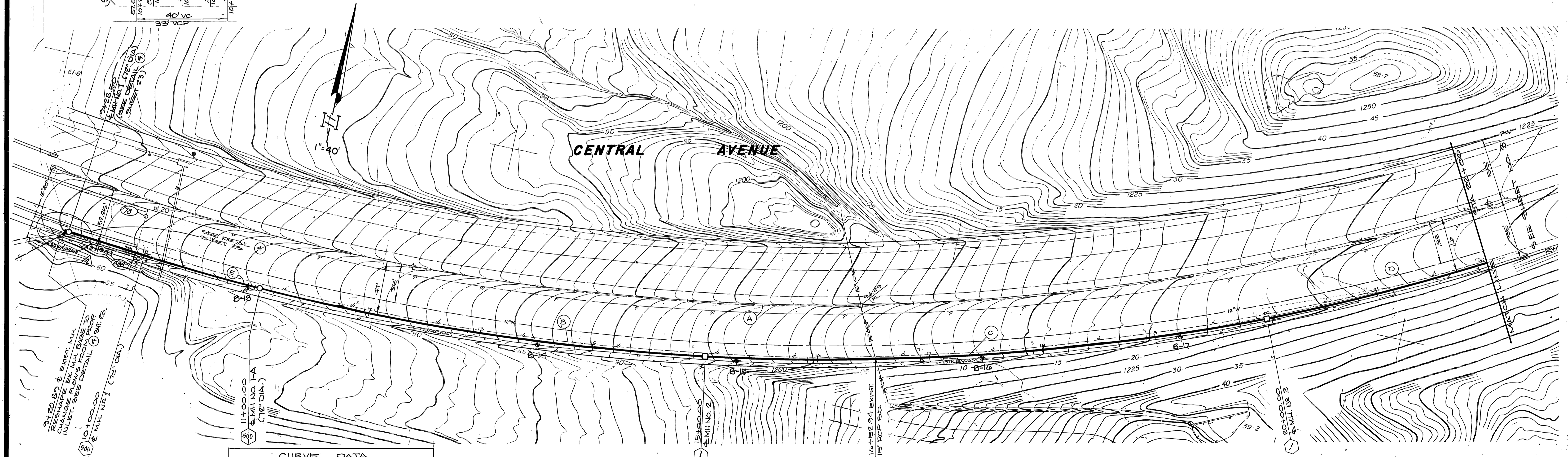
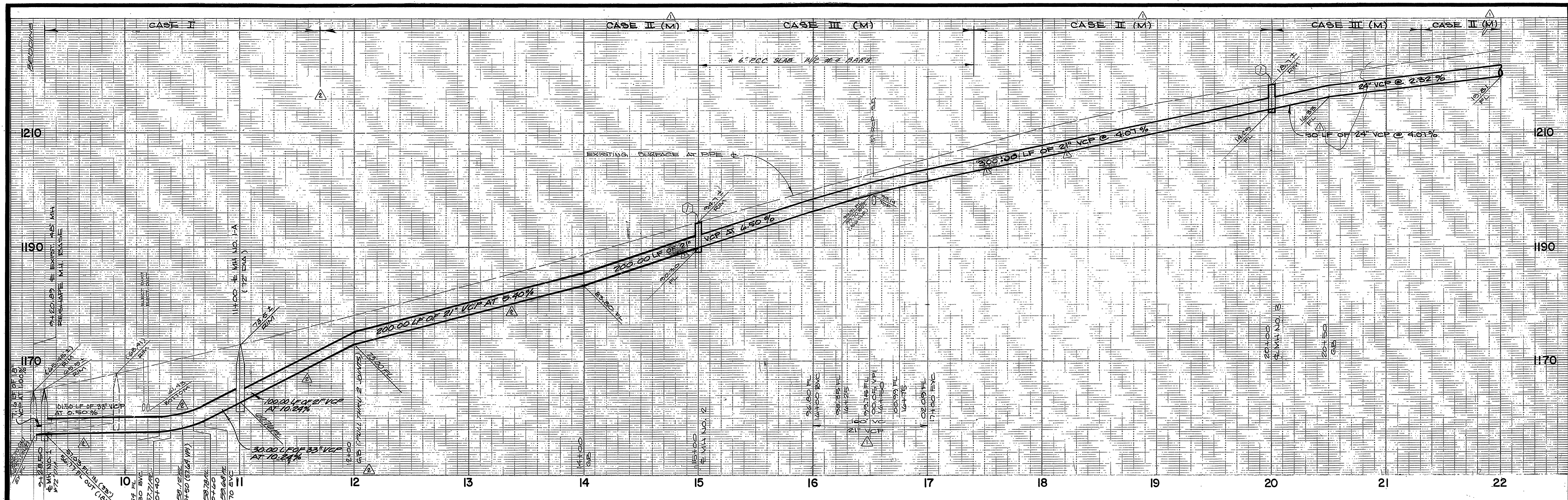
ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY *Wallace H. Frank* DATE 7/29/86
R.F. No. 26779
W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

MARK	REVISIONS	APPR. DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY *[Signature]* DATE 8-4-86
PRINCIPAL ENGINEER
PARK DEPARTMENT
TRAFFIC DIVISION
CHIEF SUB. WKS. ENGR.

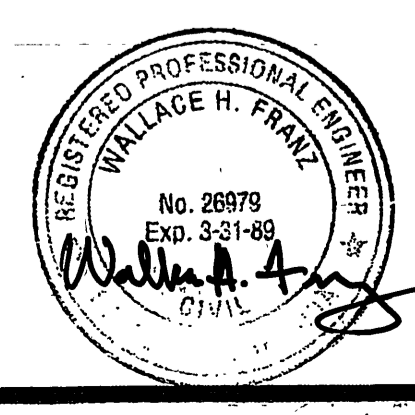
CANYON SPRINGS TRUNK SEWER
INDEX
DATE 8-4-86

ACCOUNT No. 32-577-563
DRAWING NUMBER
S-1424
SHEET 1 OF 24
W.O. 85-55



NOTE (BIKEWAY):
 ANY DAMAGE, OCCURRING TO EXISTING BIKEWAY AS A RESULT OF SEWER INSTALLATION CONSTRUCTION, SHALL BE REPAIRED / RECONSTRUCTED PER STD. DWG. III.

CURVE DATA				
	Δ	R	L	T
(A)	46°01'55"	200'	1809.73'	851.53'
(B)	11°11'46"	204'	400.00'	200.64'
(C)	18°55'42"	204'	500.00'	251.25'
(D)	11°01'00"	204'	397.16'	199.21'
(E)	4°48'01"	204'	171.50'	85.80'



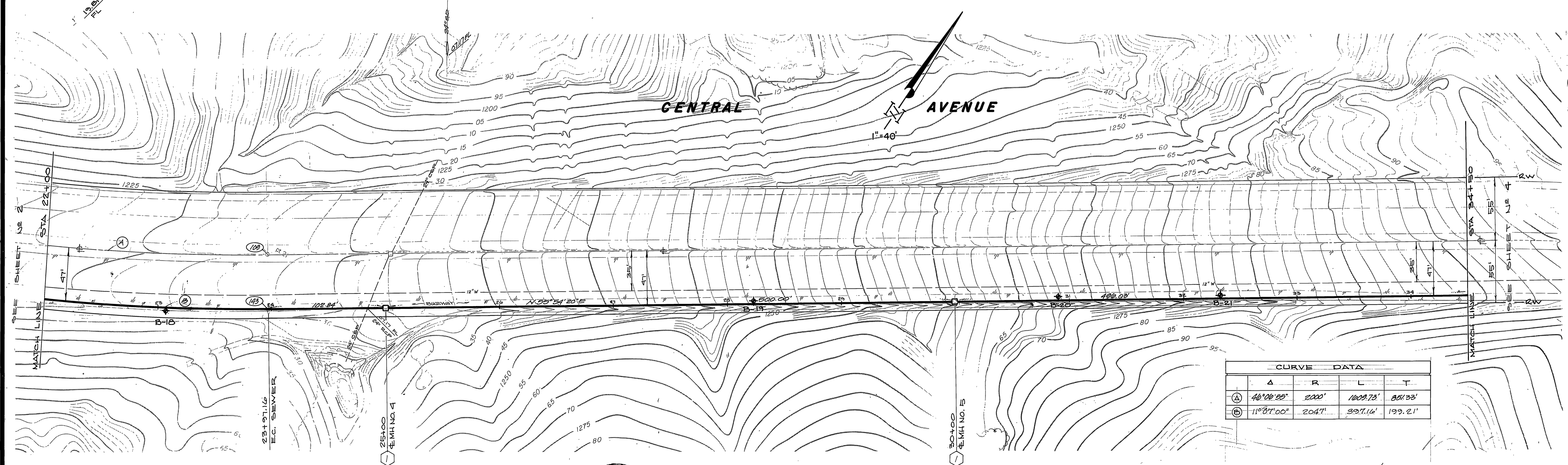
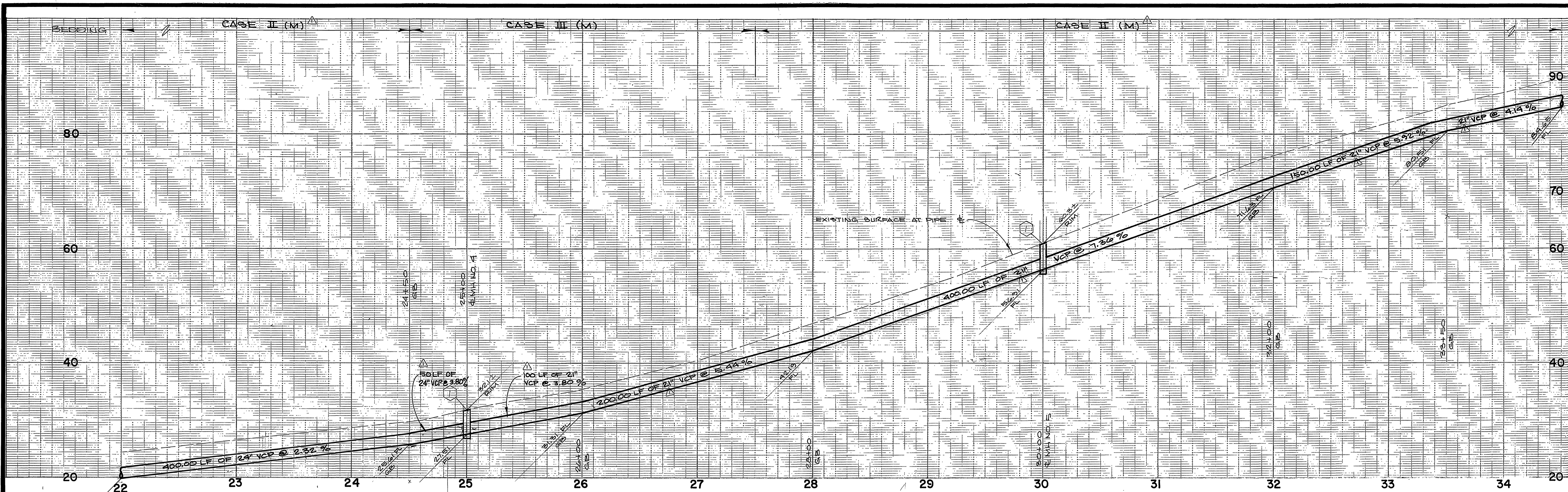
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *William A. Long* DATE 7/24/86
 R.E. No. 26978
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

DESIGNED BY *WJ* DRAWN BY *WJ* CHECKED BY *WJ*
 DATE 8-4-86

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY *William D. Dardun* DATE 8-4-86
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGR.

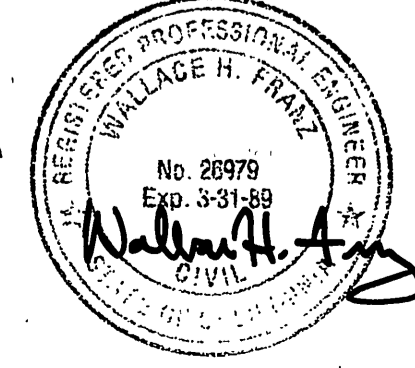
CANYON SPRINGS
 TRUNK SEWER
 CENTRAL AVENUE
 STA 10+00.00 TO STA 22+00.00
 SCALE: 1" = 40' horiz., 1" = 3' vert.

INDEXED BY *CB*
 ACCOUNT No. 32-577-5631
 DRAWING NUMBER
S-1424
 SHEET 12 OF 24
 W.O. 85-55



CURVE DATA				
	Δ	R	L	T
(A)	46°08'20"	2000'	1009.73'	851.33'
(B)	11°37'00"	2047'	397.16'	199.21'

NOTE (BIKEWAY):
 ANY DAMAGE OCCURRING TO EXISTING BIKEWAY AS A RESULT OF SEWER INSTALLATION CONSTRUCTION SHALL BE REPAIRED/RECONSTRUCTED PER STD. DWG. III.



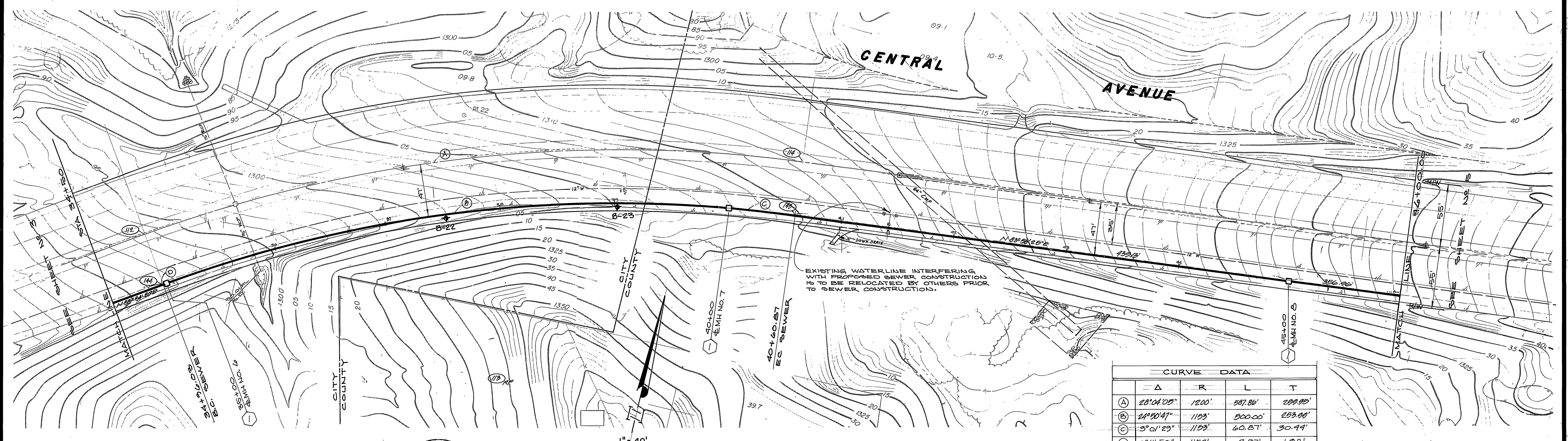
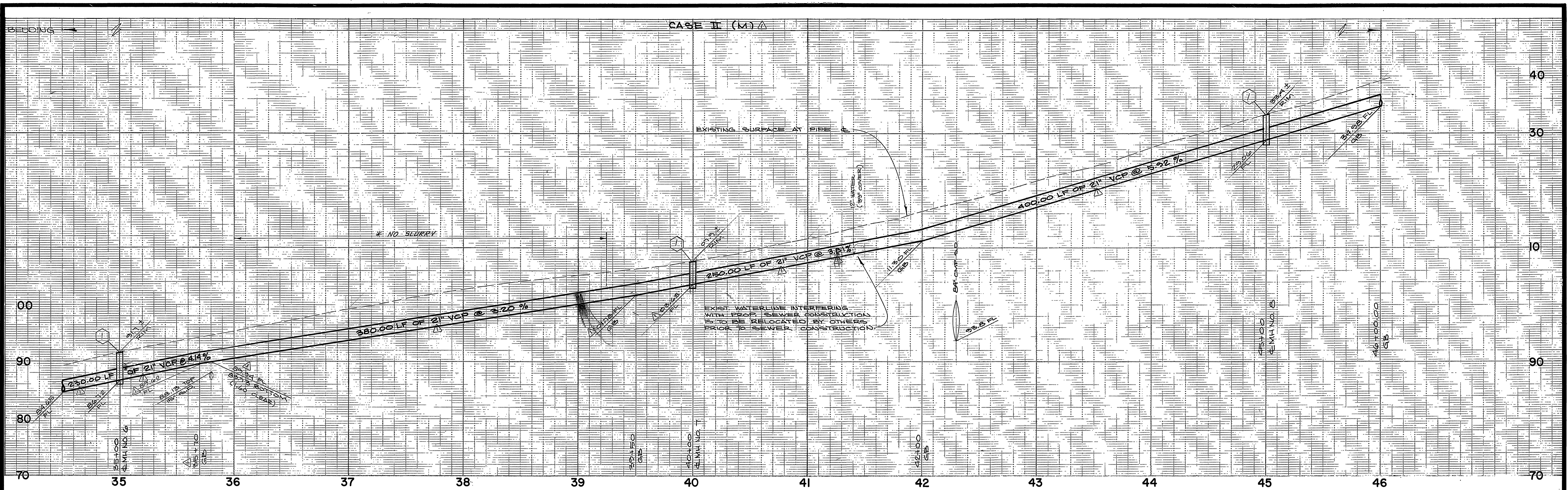
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *Wallace H. Franz* DATE 7/22/88
 R.E. No. 26979
 W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045

DESIGNED BY: *RP* DRAWN BY: *RP* CHECKED BY: *WF*

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William D. Anderson* DATE 8-4-86
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.

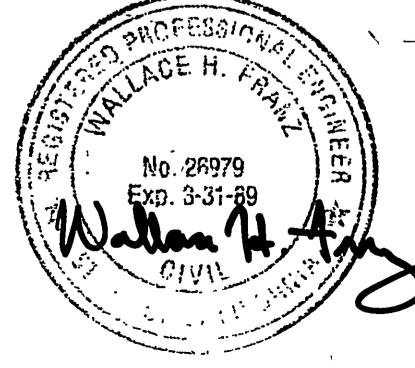
CANYON SPRINGS
 TRUNK SEWER
 CENTRAL AVENUE
 STA 22+00.00 TO STA 34+50.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 3 OF 24
 W.O. 85-55



CURVE DATA			
	Δ	R	T
(A)	28°04'00"	1200'	587.86'
(B)	24°50'47"	1103'	500.00'
(C)	3°01'29"	1153'	60.87'
(D)	0°11'50"	1153'	3.97'

NOTE (BIKEWAY):
 ANY DAMAGE, OCCURRING TO EXISTING BIKEWAY, AS A RESULT OF SEWER INSTALLATION CONSTRUCTION, SHALL BE REPAIRED/RECONSTRUCTED PER STD. DWG. III.



RIVERSIDE COUNTY ROAD DEPT.
 THIS SHEET WAS NOT AVAILABLE WHEN COUNTY SIGNED THE PLANS. JOHN BIRD OF THE COUNTY SAID THE ENCROACHMENT PERMIT WOULD SUFFICE. (L&L) 8 AUG 86
 APPROVED BY _____ DATE _____

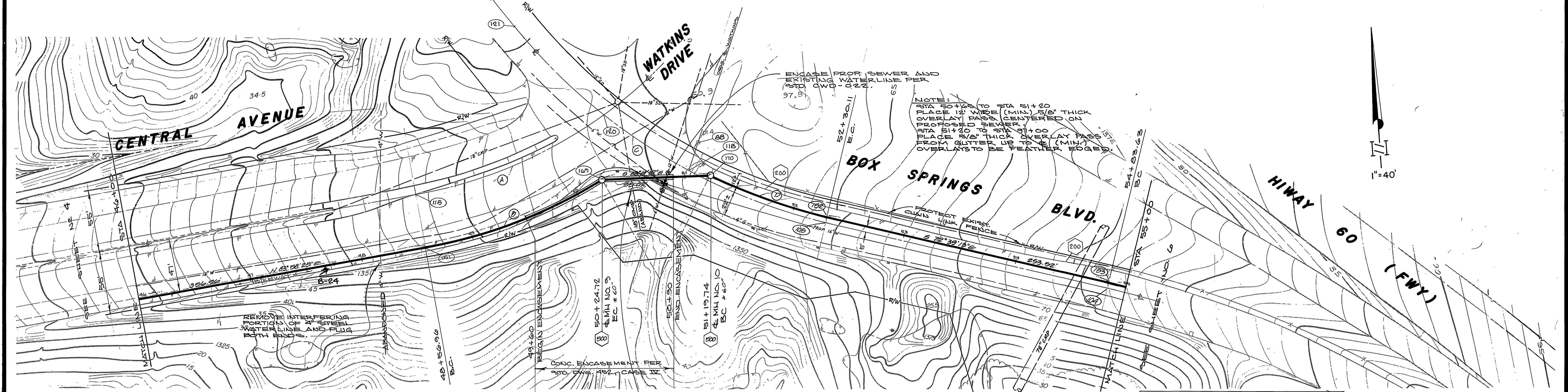
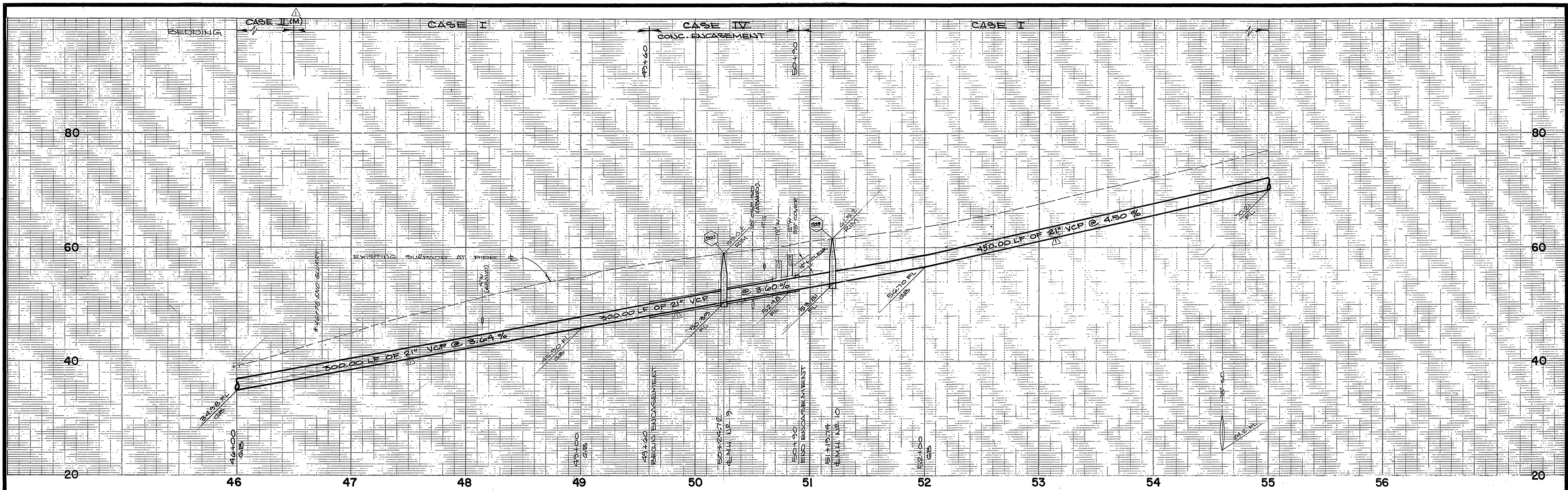
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *William H. Gray* DATE *7/21/86*
 R.E. No. *26979*
 W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045

DESIGNED BY _____ DRAWN BY *RP* CHECKED BY *WE*

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY _____ DATE *8-4-86*
 PRINCIPAL ENGINEER *William D. Gordon*
 TRAFFIC DIVISION
 CHIEF P. W. ENGR. *W.D.G.*
 DATE *8-4-86*

CANYON SPRINGS
 TRUNK SEWER
 CENTRAL AVENUE
 STA 34+50.00 to STA 46+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 4 OF 24
 WO. 85-55

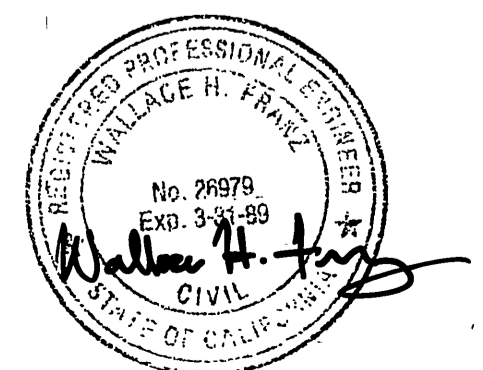


NOTE: STA 50+00 TO STA 51+20
 PLACE 12" WIDE (MIN.) 5/8" THICK
 OVERLAY PASS CENTERED ON
 PROPOSED SEWER
 STA 51+20 TO STA 51+00
 PLACE 5/8" THICK OVERLAY PASS
 FROM GUTTER UP TO 4" (MIN.)
 OVERLAYS TO BE FEATHER EDGES

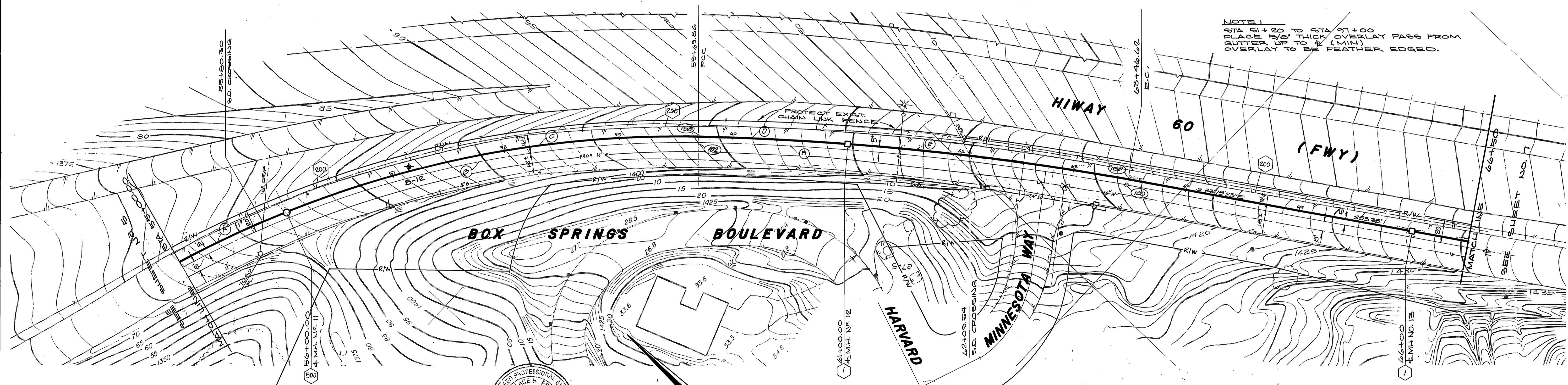
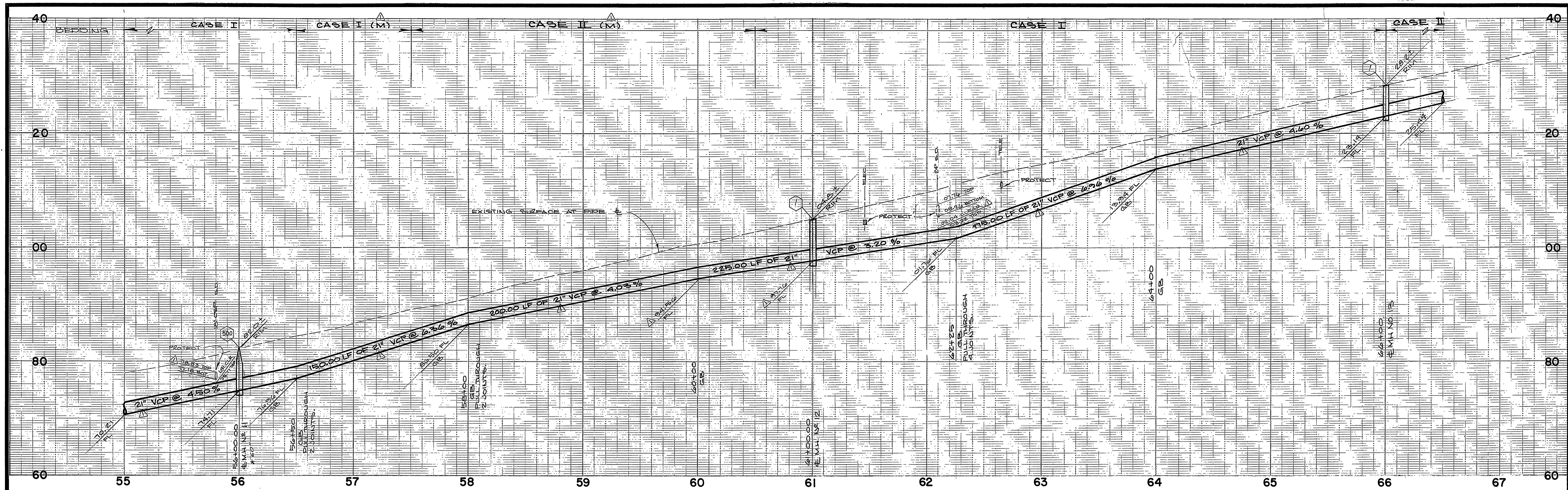
CURVE DATA				
	Δ	R	L	T
(A)	62°07'18"	480'	455.38'	252.91'
(B)	20°34'57"	407'	167.76'	81.80'
(C)	38°38'05"	300'	337.15'	175.27'
(D)	12°46'32"	405'	110.37'	55.42'

SEWER AND PLUG W/ CONCRETE
 EXIST. AROUND 18" COP STORM
 DRAIN SHOULD NOT INTERFERE WITH
 PROPOSED SEWER CONSTRUCTION.

NOTE (BIKEWAY):
 ANY DAMAGE OCCURRING TO EXISTING
 BIKEWAY, AS A RESULT OF SEWER
 INSTALLATION CONSTRUCTION, SHALL
 BE REPAIRED/RECONSTRUCTED
 PER STD. DWG. 111.



RIVERSIDE COUNTY ROAD DEPT. APPROVED BY <i>S.K. Stein</i> DATE <i>8/8/86</i>	ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA APPROVED BY <i>Wallace H. Franke</i> DATE <i>7/29/86</i> R.E. No. <i>26719</i> W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY <i>William D. Anderson</i> DATE <i>8-4-86</i> DIRECTOR OF PUBLIC WORKS	CANYON SPRINGS TRUNK SEWER CENTRAL AVE. / BOX SPRINGS BLVD. STA 46+00.00 to STA 55+00.00	INDEXED BY <i>CD</i> ACCOUNT No. 32-577-563 DRAWING NUMBER S-1424 SHEET 5 OF 24 W.O. 85-55
			SCALE: 1" = 40' horiz., 1" = 8' vert.	DESIGNED BY <i>RP</i> DRAWN BY <i>RP</i> CHECKED BY <i>WF</i>



CURVE DATA				
	Δ	R	L	T
(A)	7°22'08"	905'	116.37'	56.27'
(B)	30°47'00"	900'	483.94'	247.76'
(C)	23°24'57"	905'	360.86'	187.55'
(D)	2°58'32"	2500'	130.14'	65.08'
(E)	5°35'19"	2500'	246.02'	123.41'
(F)	8°36'50"	2501'	376.00'	188.36'



RIVERSIDE COUNTY ROAD DEPT.
 APPROVED BY *SK Jain* DATE 8/8/86

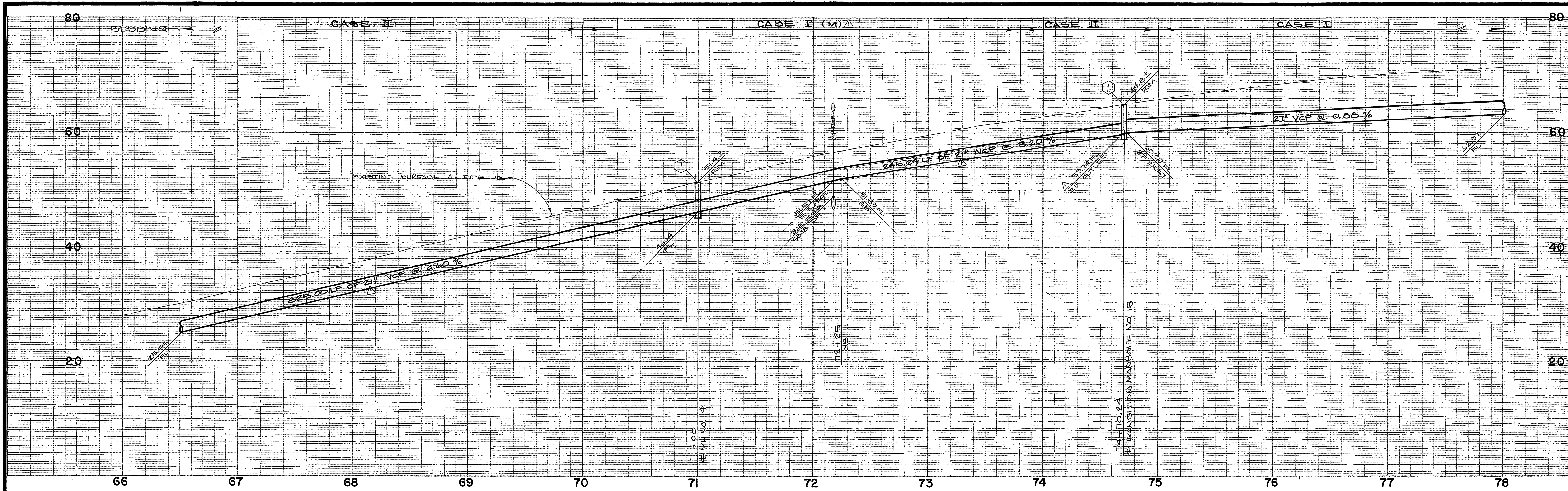
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *Wallace H. Webb* DATE 7/28/86
 R.E. No. 26979

REVISIONS
 1. REDUCE PIPE DIA. FROM 24" TO 21"
 2. REINFORCE GRADE 58+00 TO 62+25
 3. REVISIONS
 4. REVISIONS
 5. REVISIONS

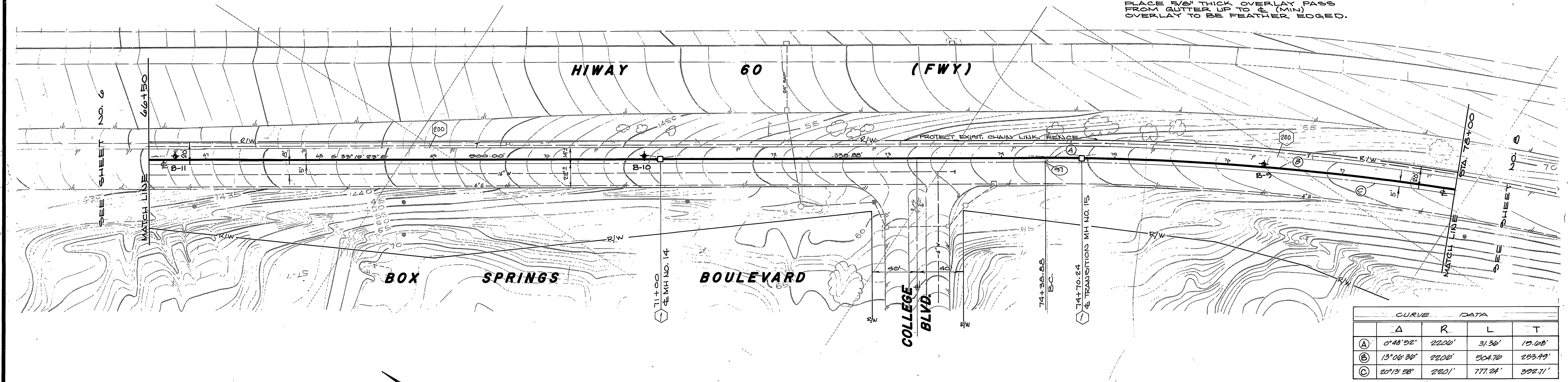
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY *William D. Anderson* DATE 8-4-86
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.

CANYON SPRINGS
 TRUNK SEWER
 BOX SPRINGS BOULEVARD
 STA 55+00.00 TO STA 66+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

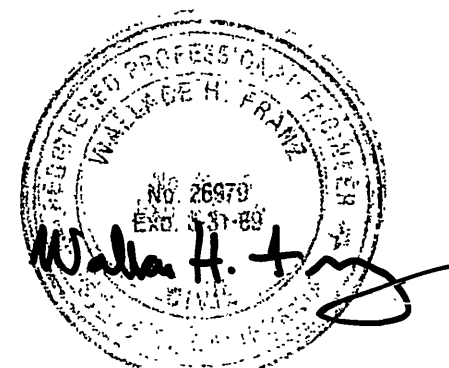
INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 6 OF 24
 WO. 85-55



NOTE:
 STA 51+20 TO STA 97+00
 PLACE 5/8" THICK OVERLAY PAV
 FROM GUTTER UP TO & (MIN)
 OVERLAY TO BE FEATHER EDGED.



CURVE		DATA		
Δ	R	L	T	
(A)	0°48'52"	2200'	31.36'	15.68'
(B)	13°00'30"	2200'	504.70'	253.49'
(C)	20°13'58"	2201'	777.24'	392.71'



1" = 40'

RIVERSIDE COUNTY ROAD DEPT.
 APPROVED BY *SK Jain* DATE 8/18/86

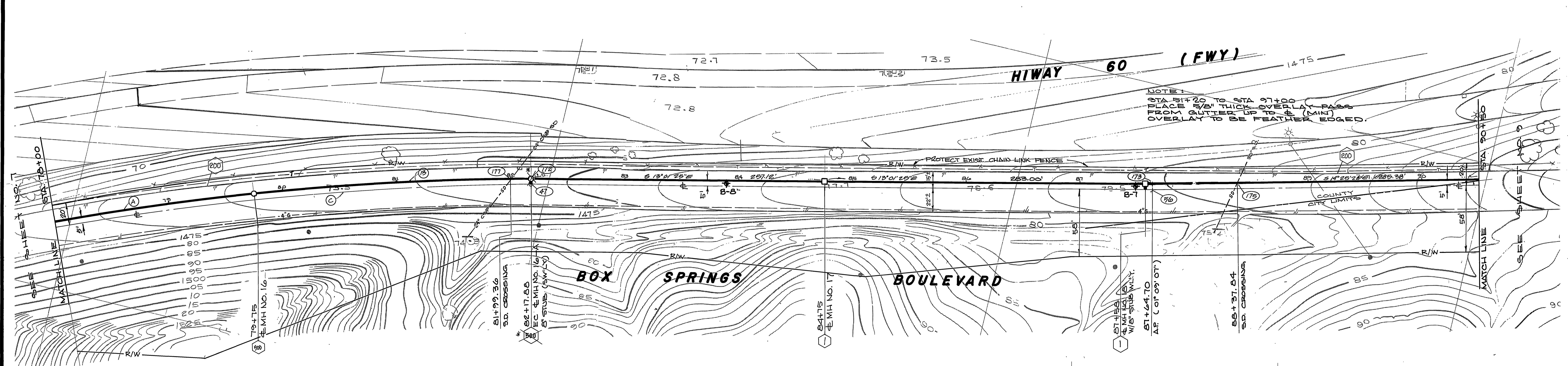
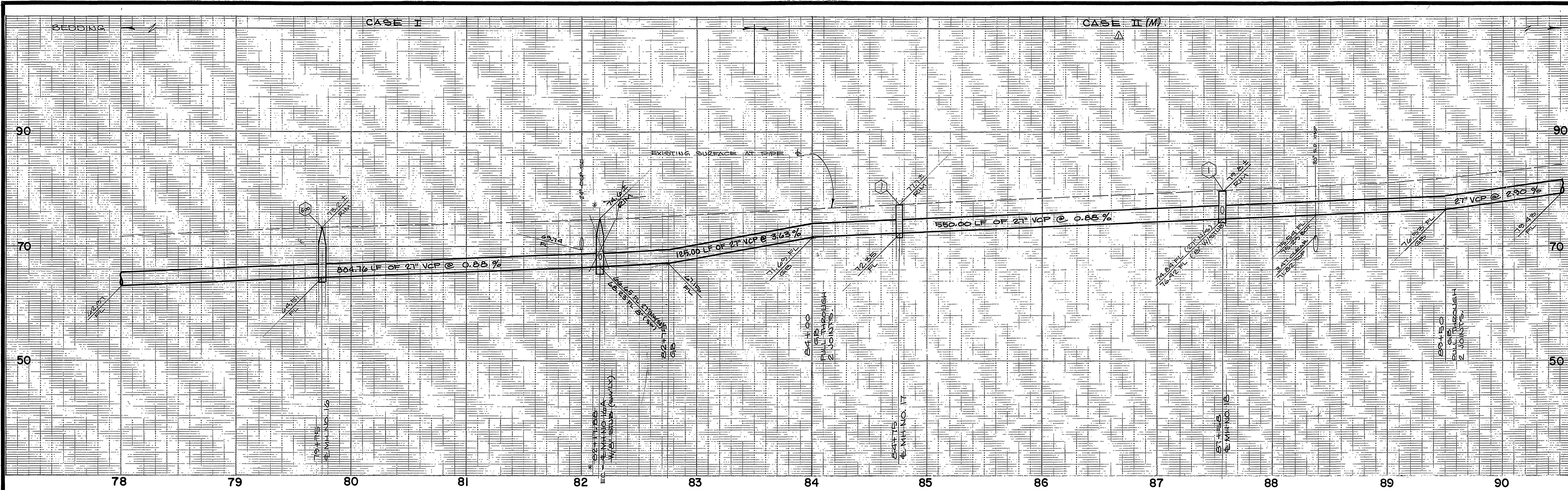
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *Walter H. Troy* DATE 7/29/86
 R.E. NO. 26771

W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045
 DESIGNED BY *WF* DRAWN BY *BP* CHECKED BY *WF*

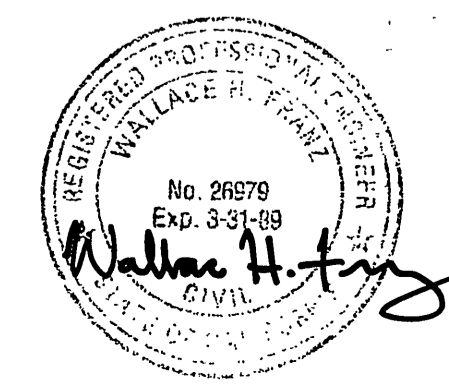
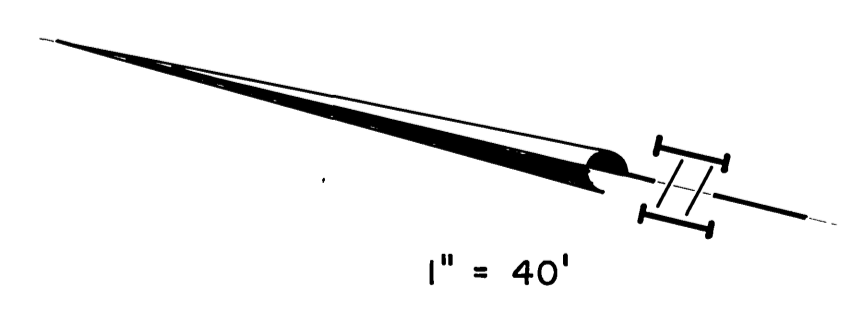
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY *William D. Ardner* DATE 8-4-86
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGR.

CANYON SPRINGS
 TRUNK SEWER
 BOX SPRINGS BOULEVARD
 STA 66+00.00 TO STA 78+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY *CD*
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 7 OF 24
 W.O. 85-55



CURVE DATA				
	Δ	R	L	T
(A)	13°08'36"	2200'	504.76'	253.49'
(B)	6°18'20"	2100'	242.82'	121.56'
(C)	20°15'58"	2201'	177.24'	392.71'



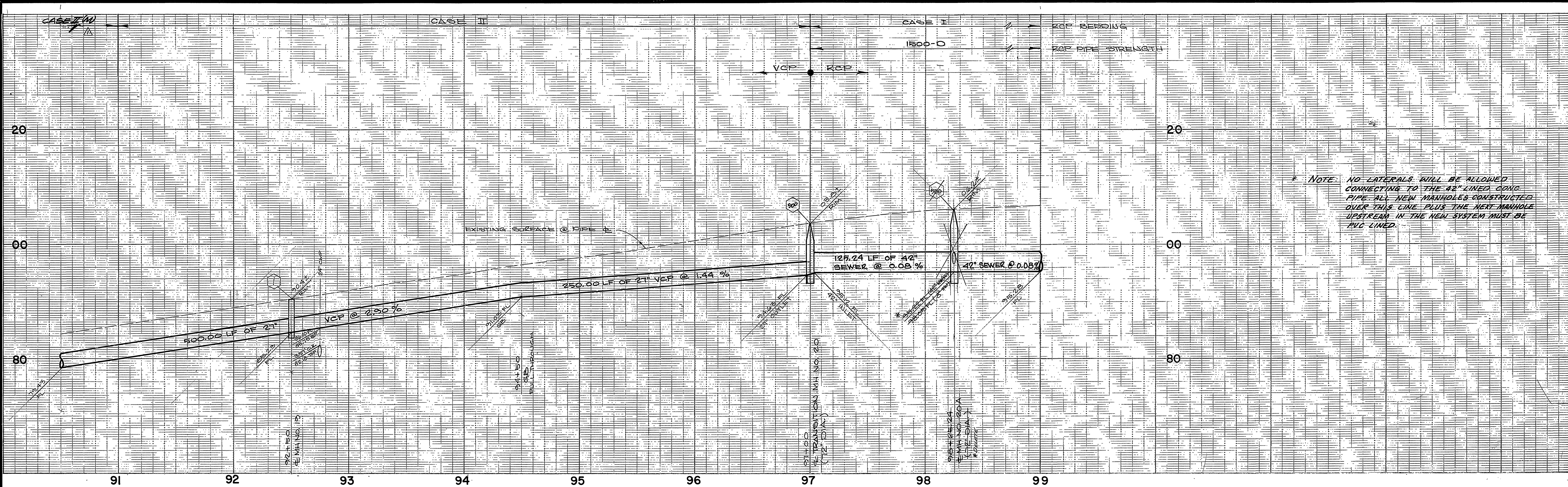
RIVERSIDE COUNTY ROAD DEPT.
 APPROVED BY *SJK* DATE 8/8/86

ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *W. H. Taylor* DATE 7/21/86
 R.E. No. 26579

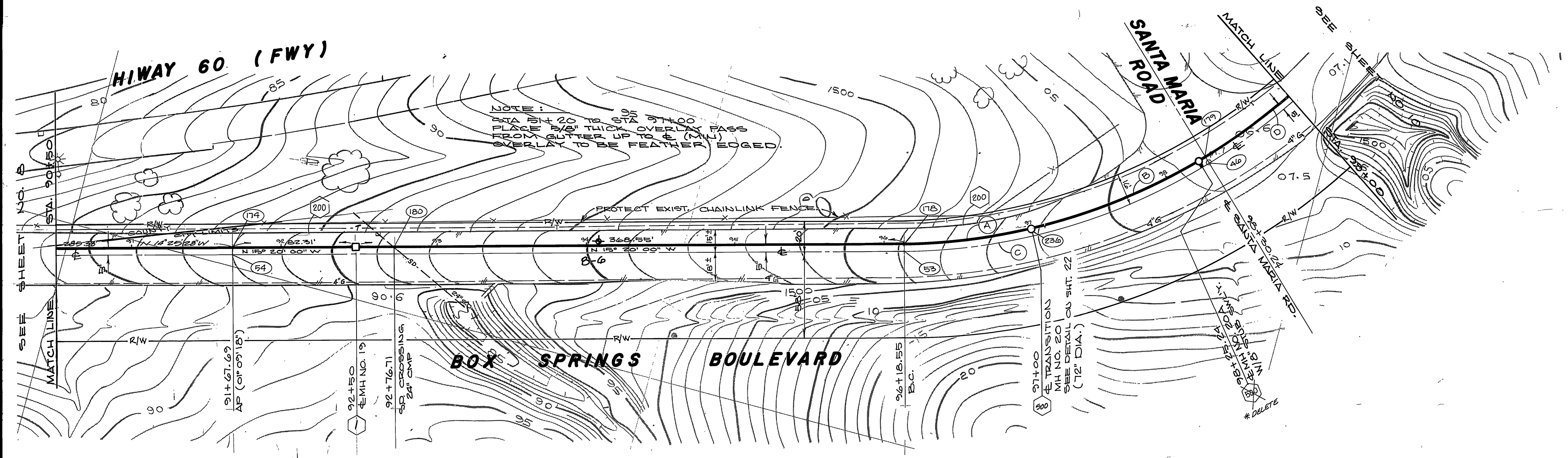
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY *William S. Gardner* DATE 8-1-86
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF & W. ENGR.

CANYON SPRINGS
 TRUNK SEWER
 BOX SPRINGS BOULEVARD
 STA 78+00.00 to STA 90+50.00

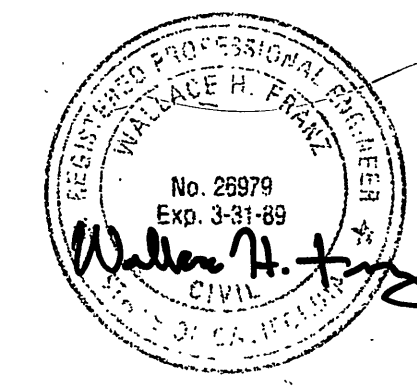
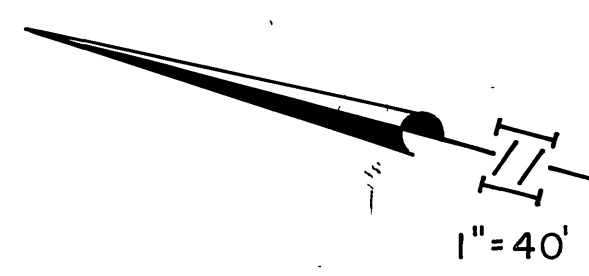
ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 8 OF 24
 W.O. 85-55
 SCALE: 1" = 40' horiz., 1" = 8' vert.



* NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE PVC LINED.



CURVE DATA				
	Δ	R	L	T
(A)	11°48'22"	305'	81.95'	40.87'
(B)	18°09'59"	300'	125.24'	63.15'
(C)	77°07'18"	400'	938.41'	318.87'
(D)	39°51'17"	395'	274.76'	143.20'



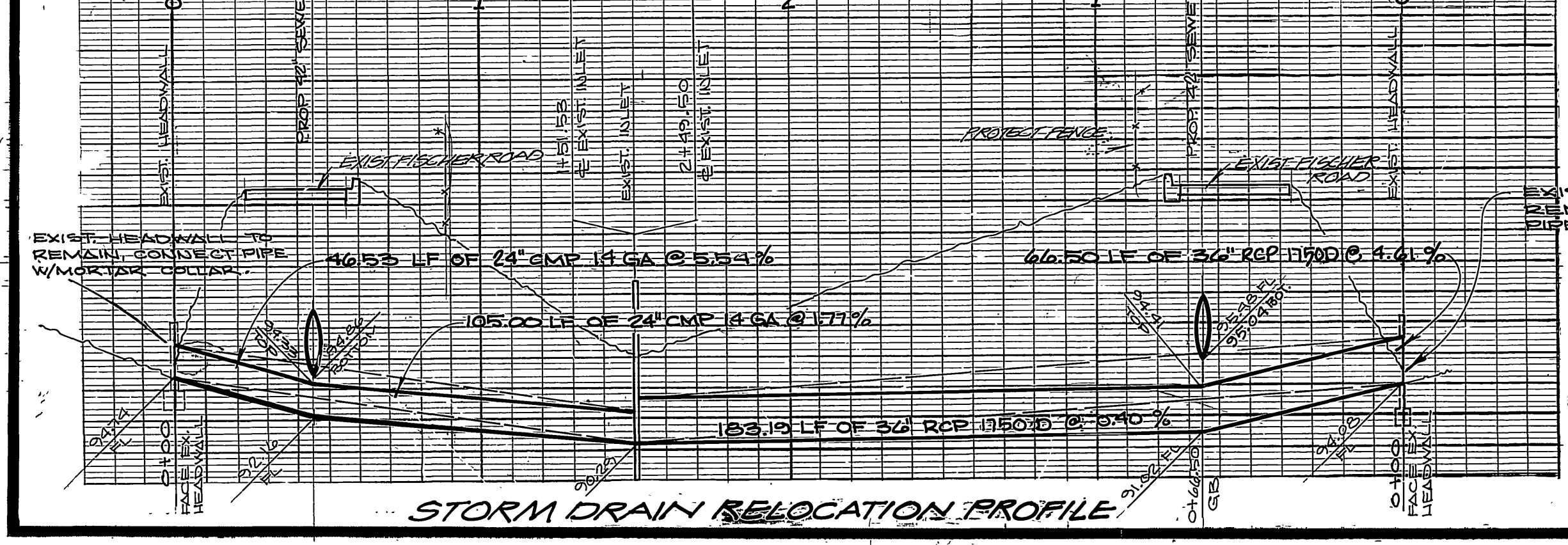
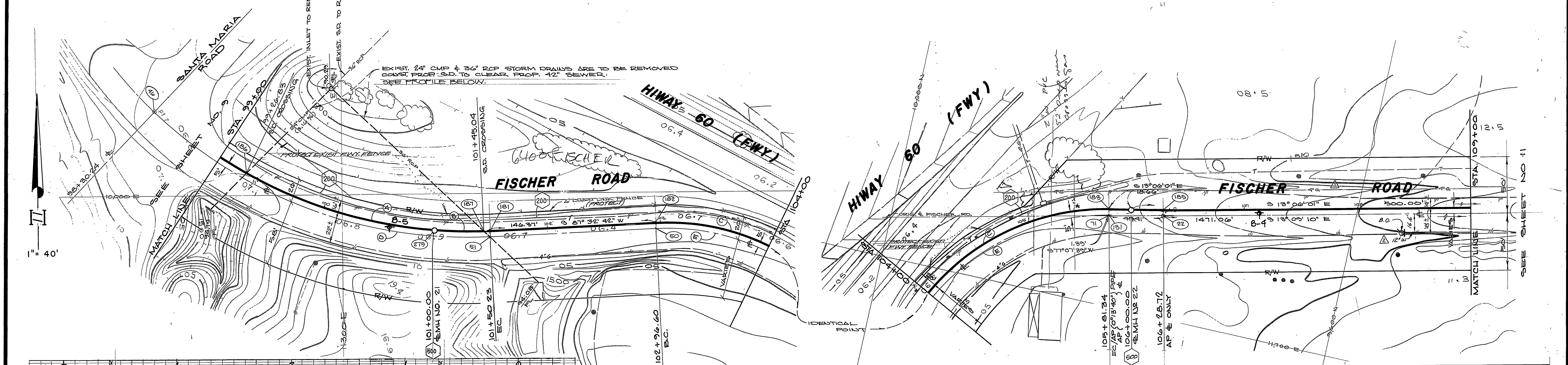
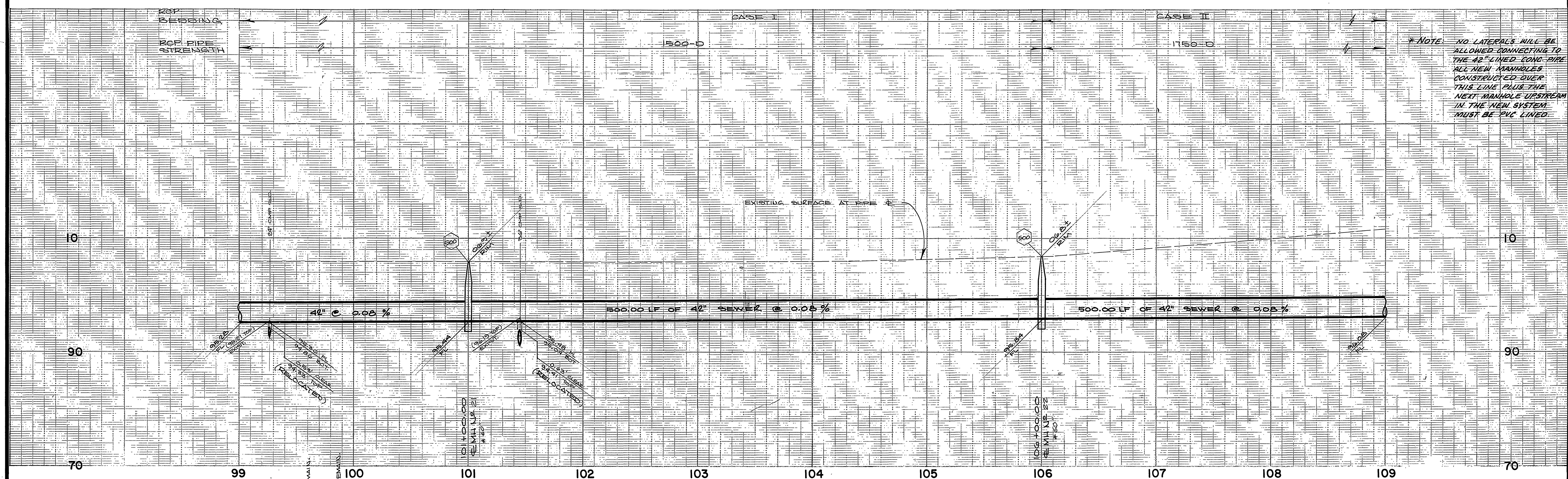
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY *William H. Webb* DATE 7/24/86
 R.E. No. 20099
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY *William B. Gardner* DATE 8-4-86
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.

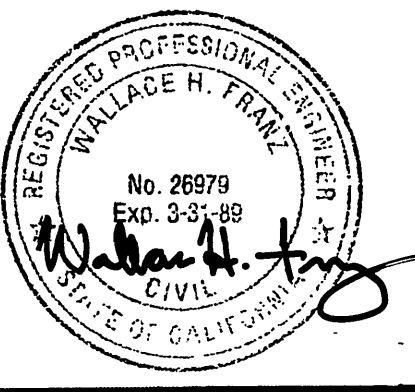
CANYON SPRINGS TRUNK SEWER
 BOX SPRINGS BOULEVARD
 STA 90+50.00 to STA 99+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY *CS*
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 9 OF 24
 W.O. 85-55

*NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE PVC LINED.



CURVE DATA				
	Δ	R	L	T
(A)	30°51'17"	325'	274.76'	143.20'
(B)	7°17'10"	325'	50.23'	25.15'
(C)	79°34'51"	205'	284.74'	170.75'
(D)	77°07'18"	400'	538.41'	318.87'
(E)	79°34'57"	200'	277.80'	166.58'



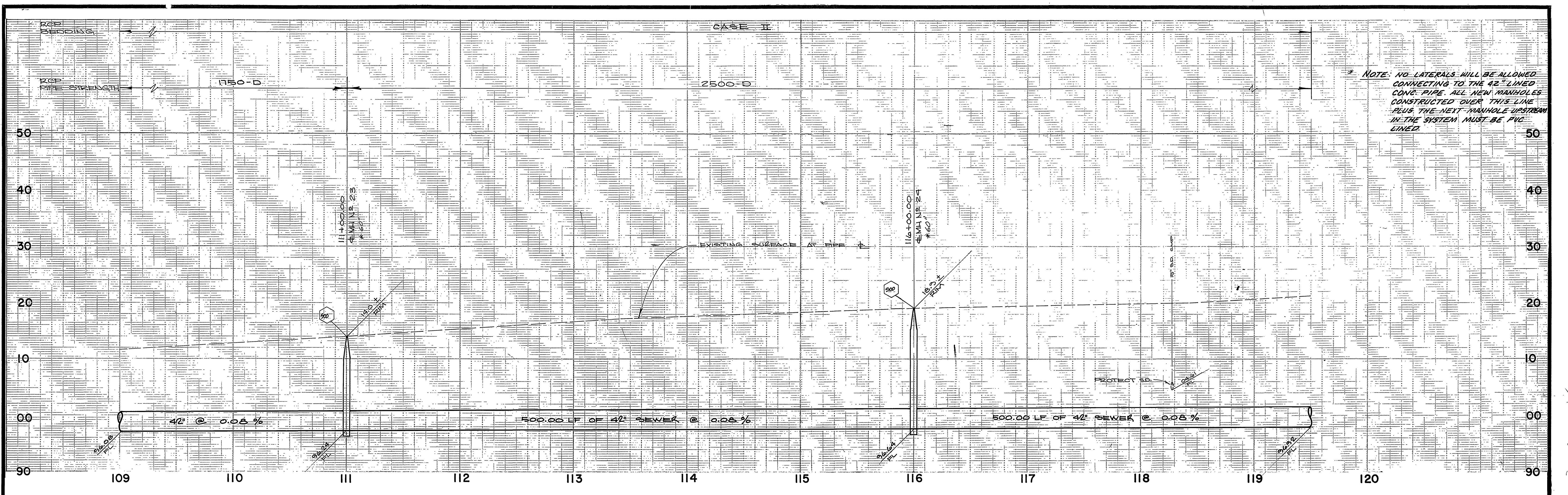
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *Wallace H. Frank* DATE: 7/1/86
 R.E. No. 28979
 W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045

DESIGNED BY: *RP*
 DRAWN BY: *RP*
 CHECKED BY: *WE*

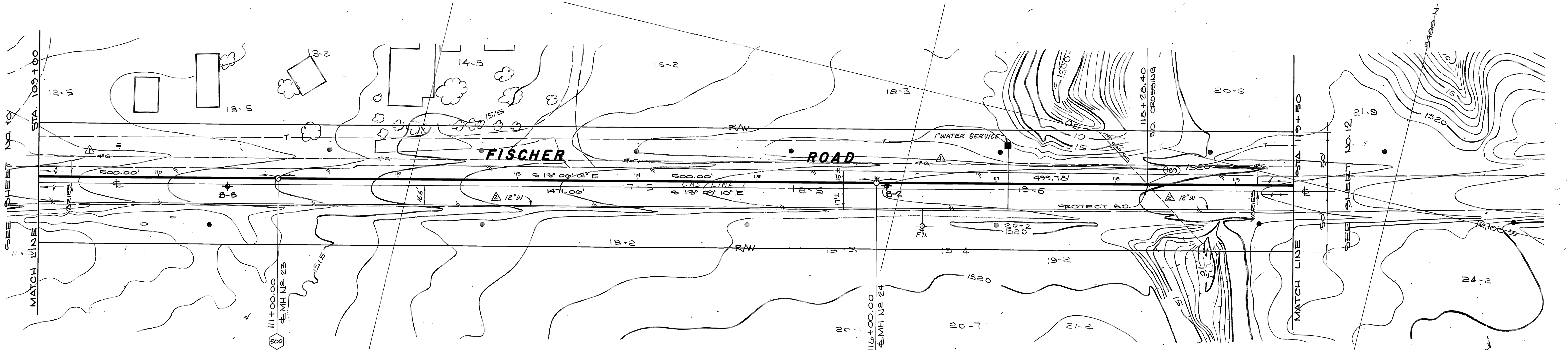
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William S. Hardin*
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGR.
 DATE: 8-4-86

CANYON SPRINGS
 TRUNK SEWER
 FISCHER ROAD
 STA 99+00.00 to STA 109+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

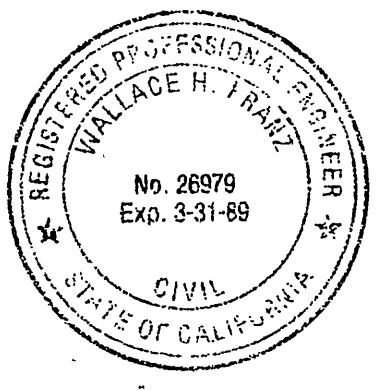
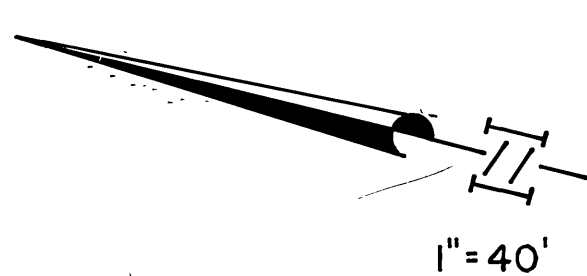
INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 10 OF 24
 W.O. 85-55



* NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE SYSTEM MUST BE PVC LINED.



△ SEWER CONNECTION NOTE (MH No 23)
 ALL EXPOSED CONCRETE SURFACES SHALL BE COATED WITH A POLYURETHANE COATING CONSISTING OF A TWO COMPONENT MIXED SUCH AS SANCON 100 AS MANUFACTURED BY SANCON ENGINEERING, SANTA ANA, CALIFORNIA OR CITY APPROVED EQUAL. THE COATING SHALL BE APPLIED PER THE MANUFACTURERS RECOMMENDATIONS WITH A MINIMUM THICKNESS OF 80 MILS. ALL JOINTS SHALL BE OVERLAPPED OVER THE EXISTING COATING(S) A MINIMUM DISTANCE OF FOUR (4) INCHES.



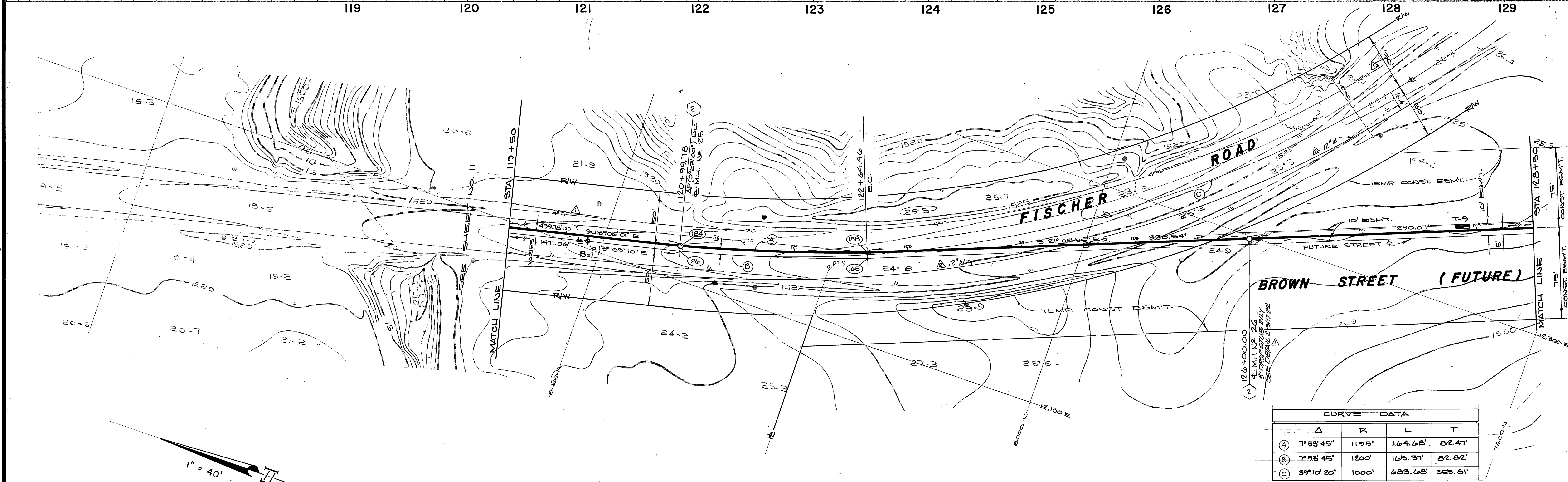
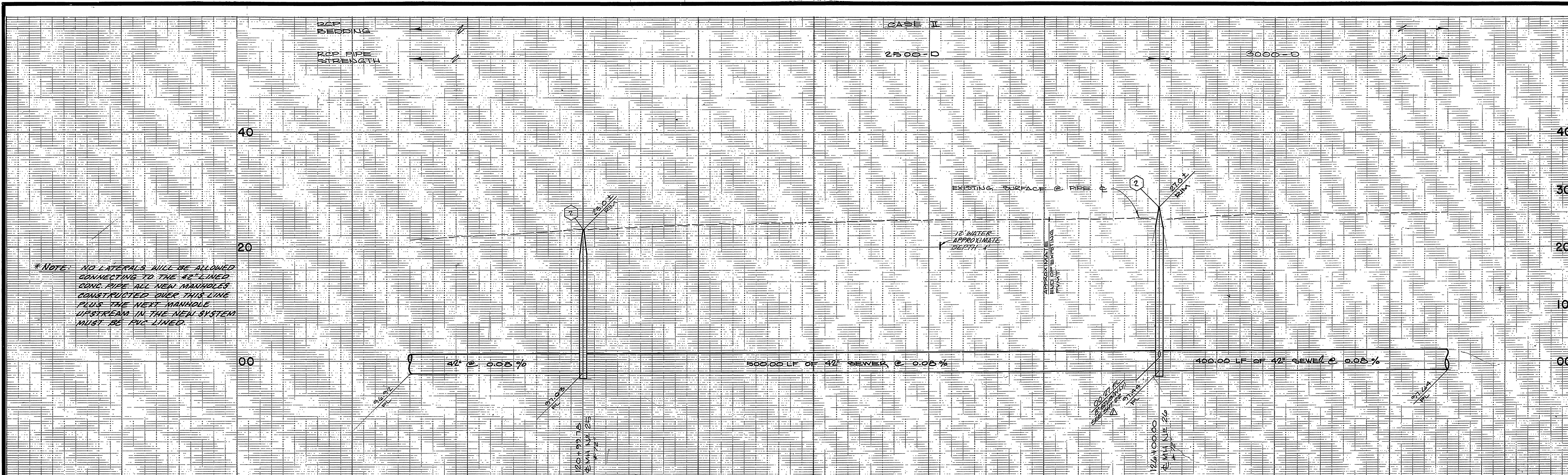
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *Wallace H. Frank* DATE: *7/21/86*
 R.E. No. *26379*

ADDED SEWER CONNECTION NOTE
 ADD 12" WATER LINE
 ADD 4" GAS LINE
 REVISIONS
 APPR. DATE
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William S. Gardner* DATE: *8/4/86*
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.

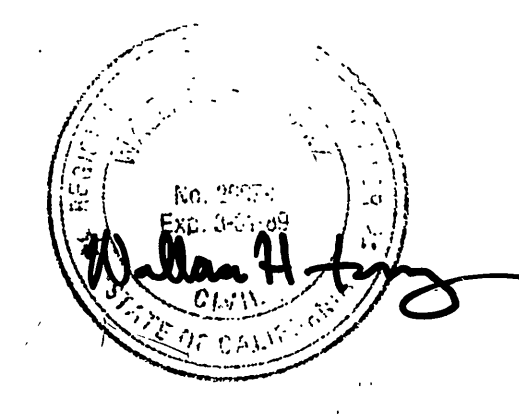
CANYON SPRINGS
 TRUNK SEWER
 FISCHER ROAD
 STA 109+00.00 to STA 119+50.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 11 OF 24
 W.O. 85-55

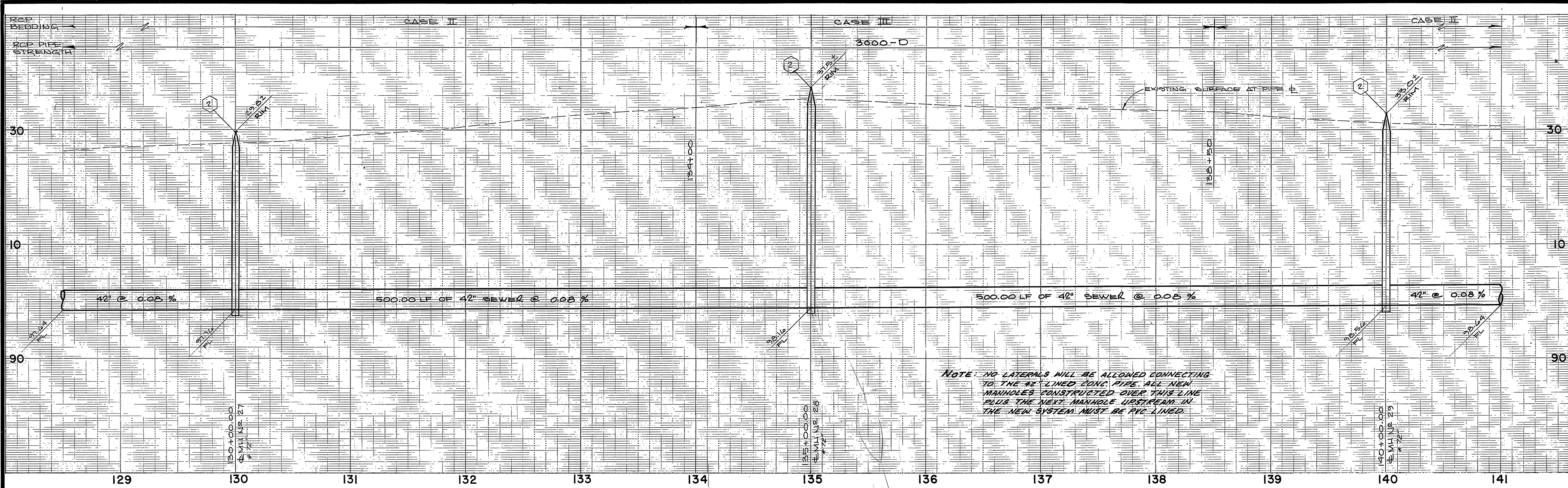


CURVE DATA			
Δ	R	L	T
(A) 7° 53' 45"	1195'	164.68'	82.47'
(B) 7° 53' 45"	1200'	165.37'	82.82'
(C) 39° 10' 20"	1000'	683.68'	355.81'

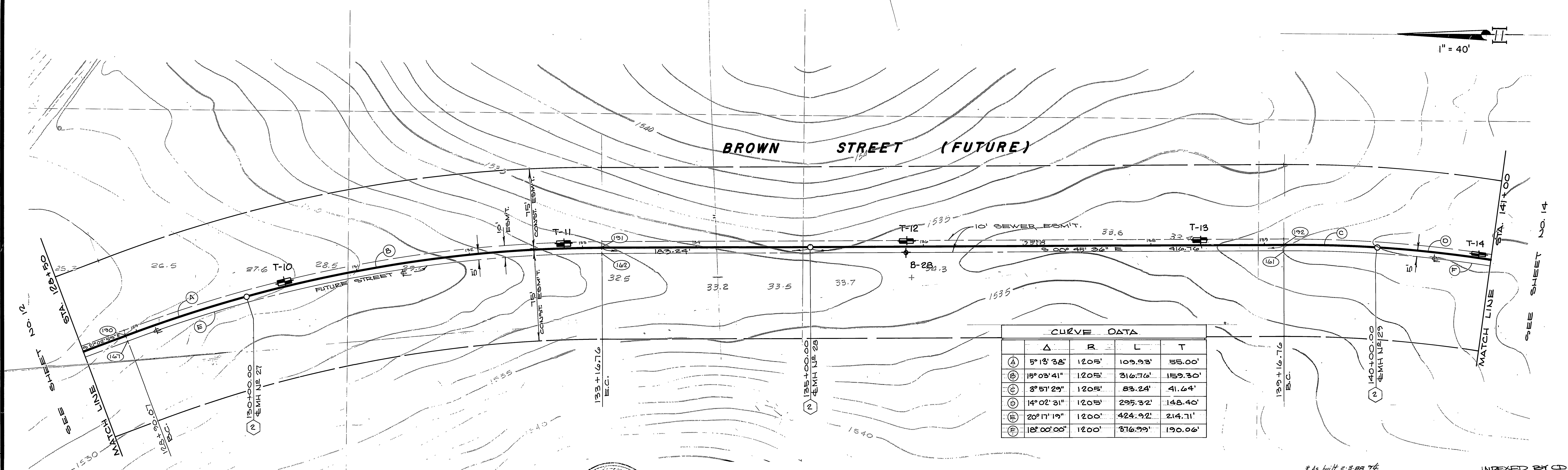
* As built 2.3.88 TE



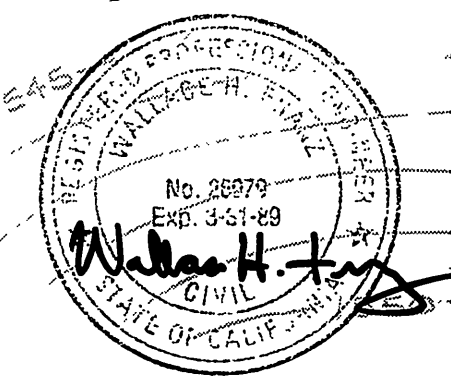
ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA APPROVED BY: <i>William H. Webb</i> DATE: 7/22/86 R.E. NO. 26979 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>William S. Dandrea</i> DATE: 8-4-86 PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF P. W. ENGR.	CANYON SPRINGS TRUNK SEWER FISCHER RD. / BROWN ST. (FUTURE) STA 119+50.00 TO STA 128+50.00 SCALE: 1" = 40' horiz., 1" = 8' vert.	INDEXED BY CD ACCOUNT No. 32-577-563 DRAWING NUMBER S-1424 SHEET 12 OF 24 W.O. 85-55
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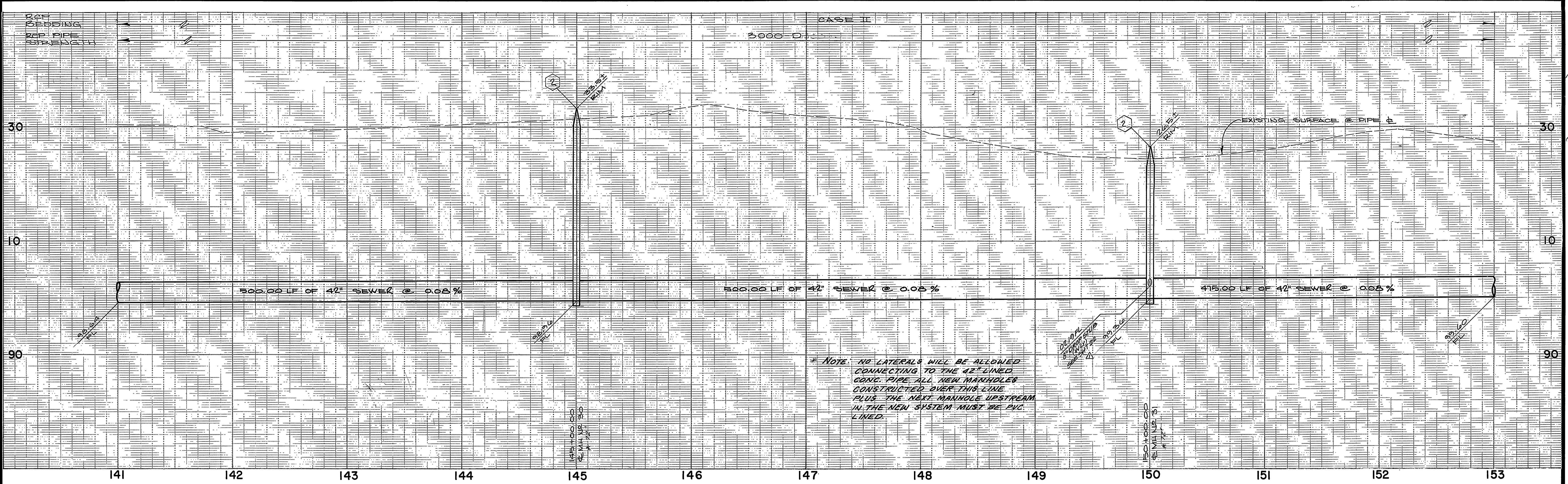
NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE PVC LINED.



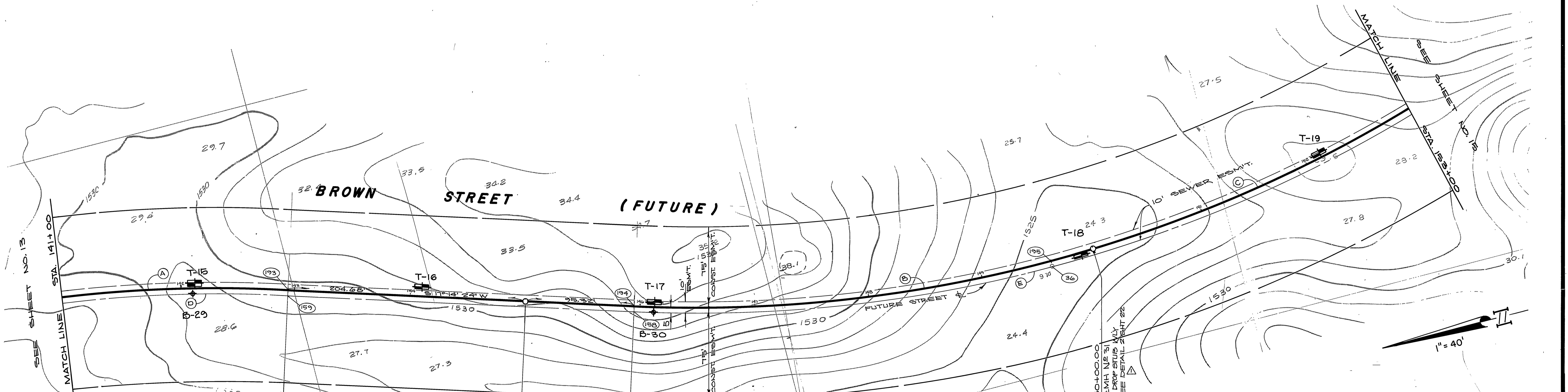
CURVE DATA				
	Δ	R	L	T
(A)	5° 13' 32"	1205'	109.93'	55.00'
(B)	15° 03' 41"	1205'	316.76'	159.30'
(C)	3° 57' 29"	1205'	83.24'	41.64'
(D)	14° 02' 31"	1205'	295.32'	148.40'
(E)	20° 17' 19"	1200'	424.92'	214.71'
(F)	18° 00' 00"	1200'	376.99'	190.06'



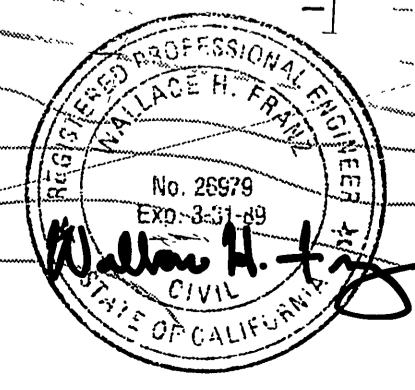
ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA APPROVED BY <i>William H. Webb</i> DATE <i>7/22/86</i> R.E. No. <i>26774</i>	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY <i>William H. Webb</i> DATE <i>7/22/86</i> TRAFFIC DIVISION CHIEF P. W. ENGR.	APPROVED BY <i>William H. Webb</i> DIRECTOR OF PUBLIC WORKS DATE <i>8-4-86</i>	INDEXED BY <i>CD</i> ACCOUNT No. 32-577-563 DRAWING NUMBER S-1424 SHEET 13 OF 24
			CANYON SPRINGS TRUNK SEWER BROWN STREET (FUTURE) STA 128+50.00 to STA 141+00.00 SCALE: 1" = 40' horiz., 1" = 8' vert.



*NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE PVC LINED.



CURVE DATA				
	Δ	R	L	T
(A)	14° 02' 31"	1205'	295.32'	148.40'
(B)	19° 24' 10"	1195'	404.68'	204.29'
(C)	22° 46' 28"	1195'	475.00'	240.68'
(D)	18° 00' 00"	1200'	376.99'	190.06'
(E)	56° 30' 54"	1200'	1183.65'	644.99'

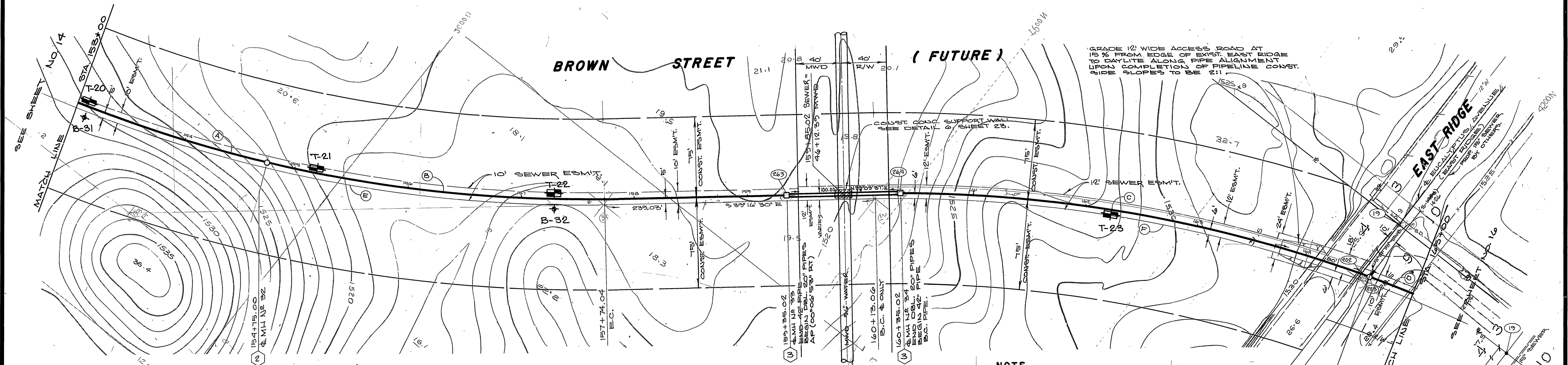
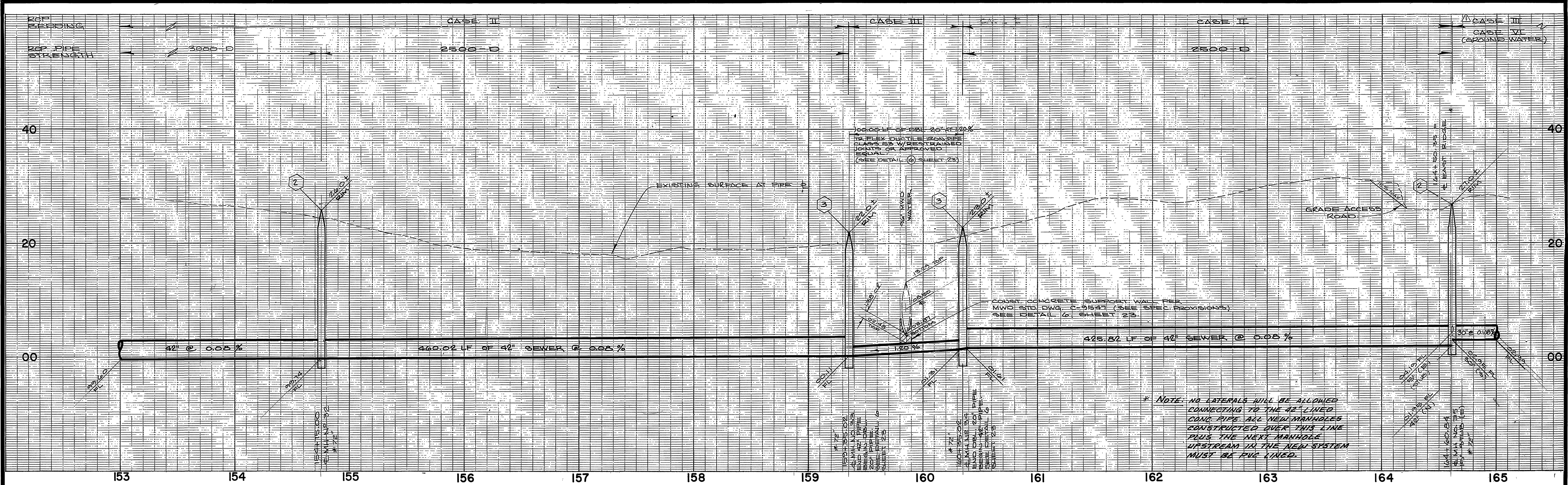


ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *William H. Frank* DATE: 7/21/86
 R.E. No. 28678
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William D. ...* DATE: 8-4-86
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.
 DESIGNED BY: *RP* DRAWN BY: *RP* CHECKED BY: *WE*

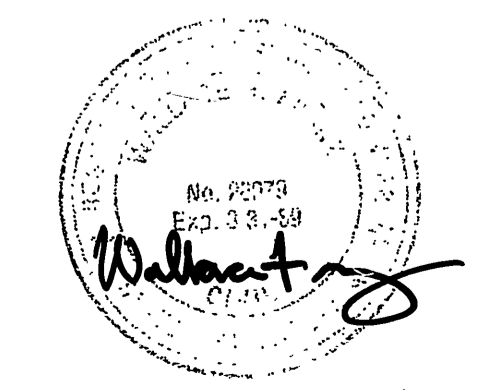
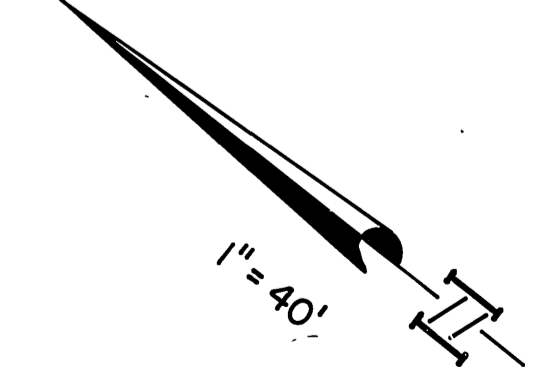
CANYON SPRINGS
 TRUNK SEWER
 BROWN STREET (FUTURE)
 STA 141+00.00 to STA 153+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY: *EXD*
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 14 OF 24
 W.O. 85-55

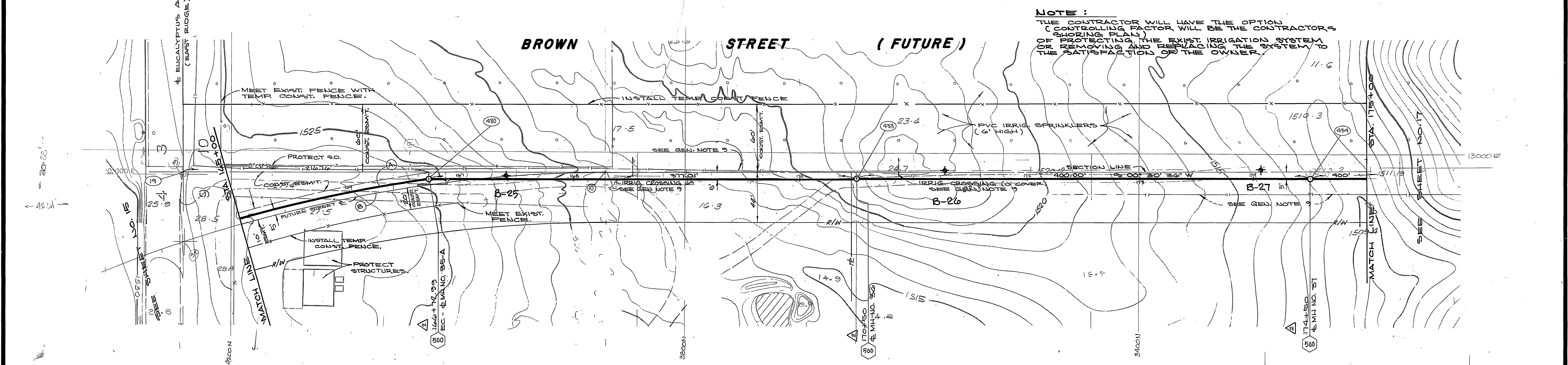
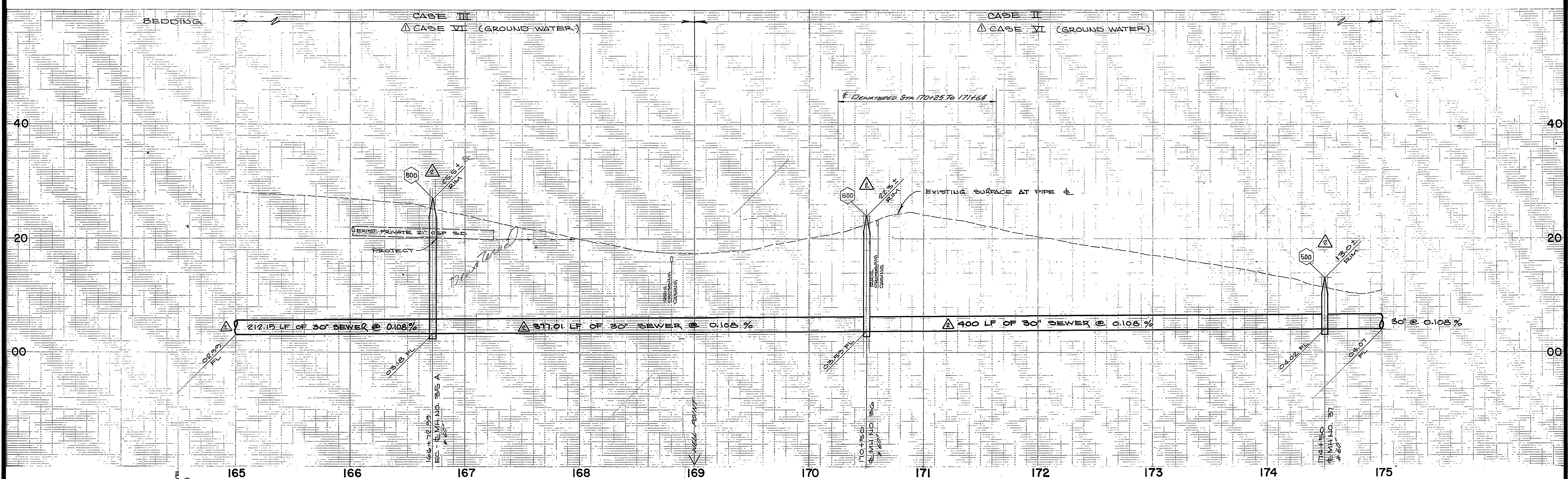


CURVE DATA

Δ	R	L	T
(A) 22° 46' 28"	1195'	415.00'	240.68'
(B) 14° 20' 16"	1195'	299.04'	150.31'
(C) 20° 14' 49"	1205'	425.82'	215.15'
(D) 10° 05' 15"	1205'	212.15'	106.35'
(E) 56° 30' 54"	1200'	1183.65'	644.99'
(F) 28° 49' 54"	1200'	811.89'	422.18'

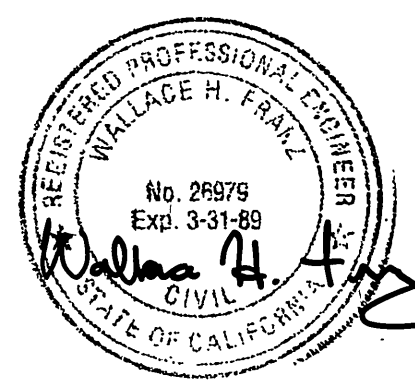
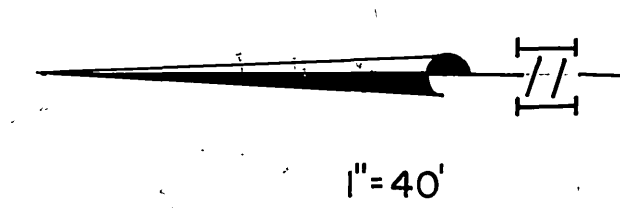


ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA APPROVED BY: <i>Albert A. Webb</i> DATE: 7/16/06 R.E. No. 26919 W.O. 85-55 FOR CITY OF RIVERSIDE E.B. 1045		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>William D. Gordon</i> DATE: 8-1-06 PARK DEPARTMENT TRAFFIC DIVISION CHIEF P. W. ENGR. DATE: 8-1-06		CANYON SPRINGS TRUNK SEWER BROWN STREET (FUTURE) STA 153+00.00 TO STA 165+00.00 SCALE: 1" = 40' horiz., 1" = 8' vert. INDEXED BY: <i>W.D.G.</i> ACCOUNT No. 32-577-5638 DRAWING NUMBER: S-1424 SHEET: 15 OF 24 W.O. 85-55	
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NOTE:
 THE CONTRACTOR WILL HAVE THE OPTION
 (CONTROLLING FACTOR WILL BE THE CONTRACTORS
 SHORING PLAN)
 OF PROTECTING THE EXIST IRRIGATION SYSTEM
 OR REMOVING AND REPLACING THE SYSTEM TO
 THE SATISFACTION OF THE OWNER.

CURVE DATA				
	Δ	R	L	T
⊙	10°05'15"	12.05'	212.15'	106.35'
⊙	38°45'54"	1200'	811.69'	422.12'

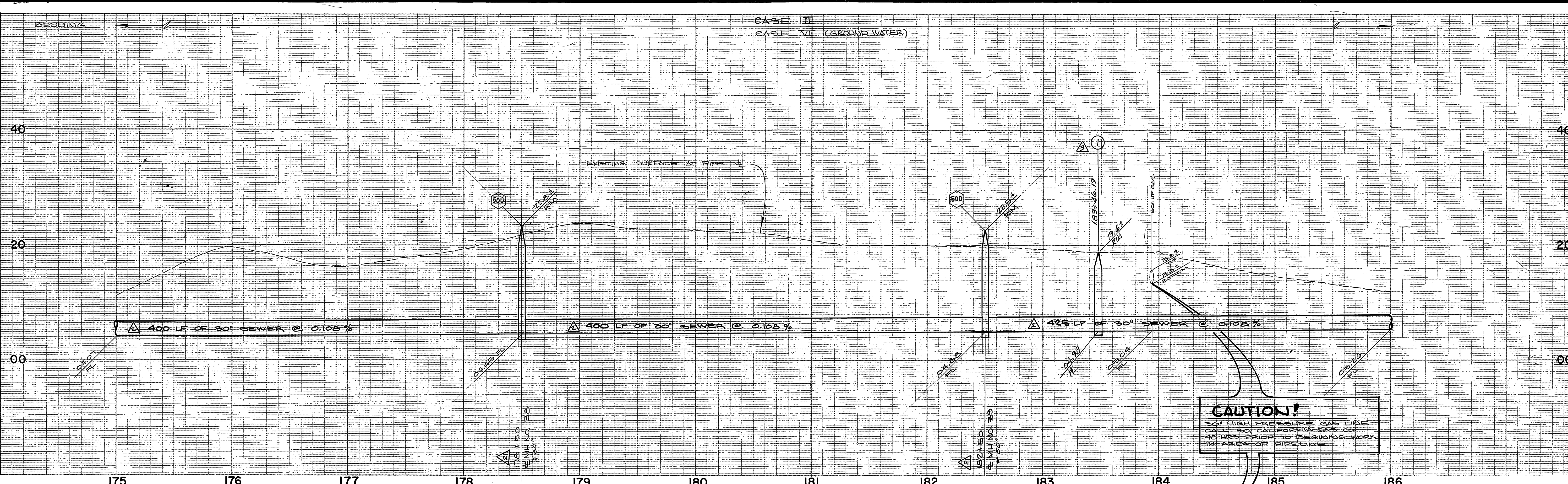


ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *Wallace H. Fraze* DATE: *7-29-86*
 R.E. No. *20492*
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 10.45

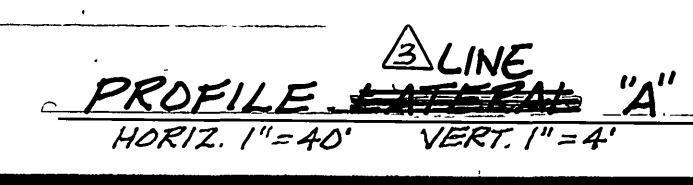
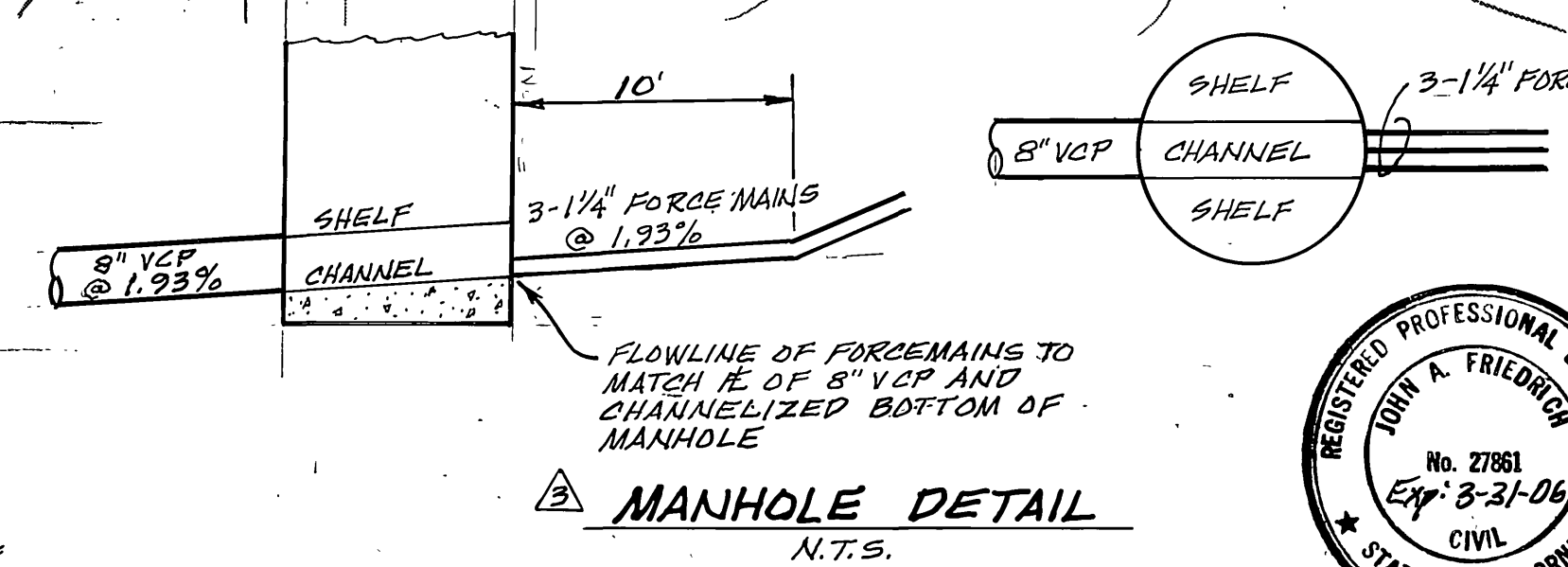
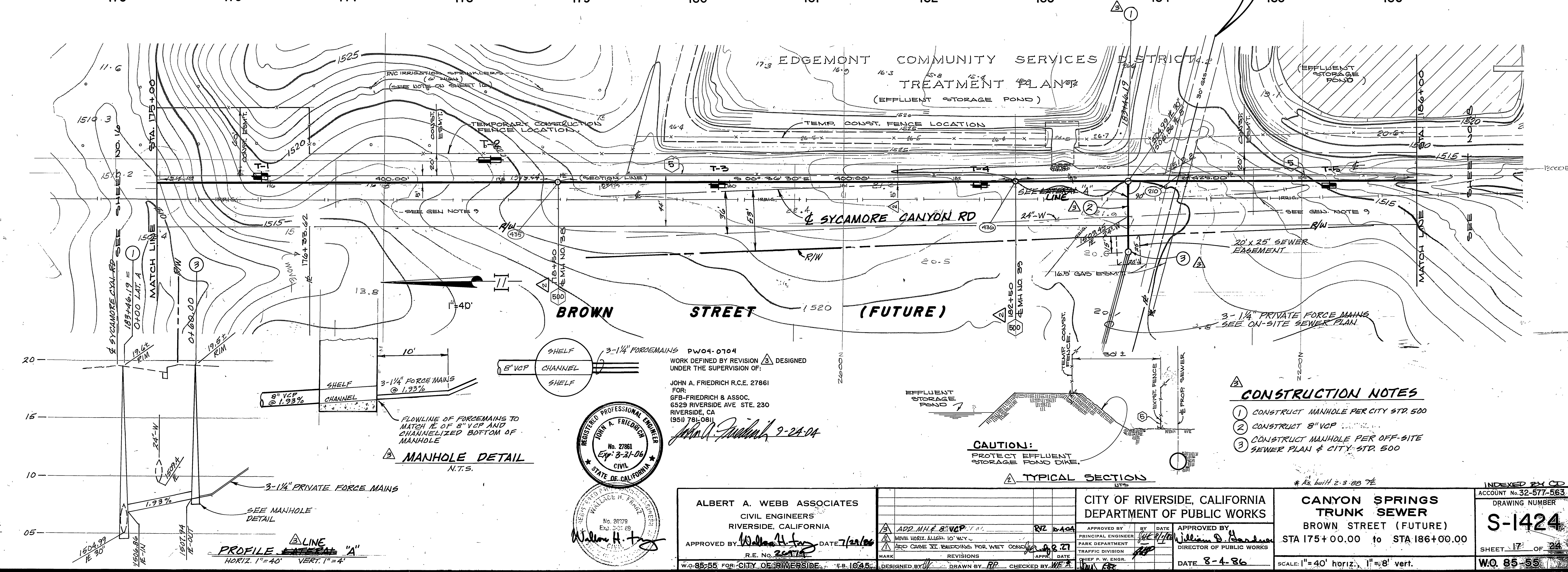
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William B. Gordon* DATE: *8-4-86*
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.
 DESIGNED BY: *RP* DRAWN BY: *RP* CHECKED BY: *WE*

CANYON SPRINGS
 TRUNK SEWER
 BROWN STREET (FUTURE)
 STA. 165+00.00 to STA 175+00.00
 SCALE: 1" = 40' Horiz., 1" = 8' Vert.

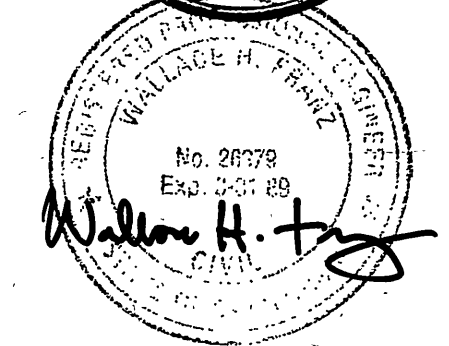
ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 16 OF 24
 W.O. 85-55



CAUTION!
 30" HIGH PRESSURE GAS LINE
 CALL 909 CALIFORNIA GAS CO.
 48 HRS PRIOR TO BEGINNING WORK
 IN AREA OF PIPELINE.



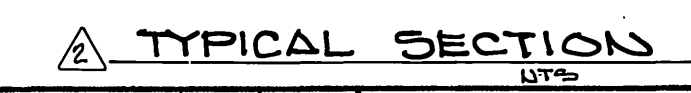
WORK DEFINED BY REVISION DESIGNED UNDER THE SUPERVISION OF:
 JOHN A. FRIEDRICH R.C.E. 27861
 FOR:
 GFB-FRIEDRICH & ASSOC.
 6529 RIVERSIDE AVE STE. 230
 RIVERSIDE, CA (951) 781-0811
John A. Friedrich 9-24-04



CONSTRUCTION NOTES

- 1 CONSTRUCT MANHOLE PER CITY STD. 500
- 2 CONSTRUCT 8" VCP
- 3 CONSTRUCT MANHOLE PER OFF-SITE SEWER PLAN & CITY STD. 500

CAUTION:
 PROTECT EFFLUENT STORAGE POND DIKE.



ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *William H. Fry* DATE 7/20/05
 R.E. NO. 26778
 W.O. 85-55 FOR CITY OF RIVERSIDE 5.B. 10.45

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William D. Gardner* DATE 8-4-06
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGR.
 DATE 8-4-06

CANYON SPRINGS
 TRUNK SEWER
 BROWN STREET (FUTURE)
 STA 175+00.00 to STA 186+00.00
 SCALE: 1"=40' horiz., 1"=8' vert.

INDEXED BY CD
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 17 OF 24
 W.O. 85-55

BEDDING

CASE II
CASE VI (GROUND WATER)

40

20

00

40

20

00

186

187

188

189

190

191

EDGEMONT COMMUNITY SERVICES DISTRICT
TREATMENT PLANT

BROWN

STREET

(FUTURE)

CURVE DATA				
	Δ	R	L	T
(A)	15° 23' 36"	805'	188.18'	94.52'
(B)	53° 59' 18"	800'	753.82'	407.52'

1" = 40'



ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA

APPROVED BY: *Wallace H. Franz* DATE: 7/28/86
R.E. No. 28979
W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045

DESIGNED BY: *RP* DRAWN BY: *RP* CHECKED BY: *WF*

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

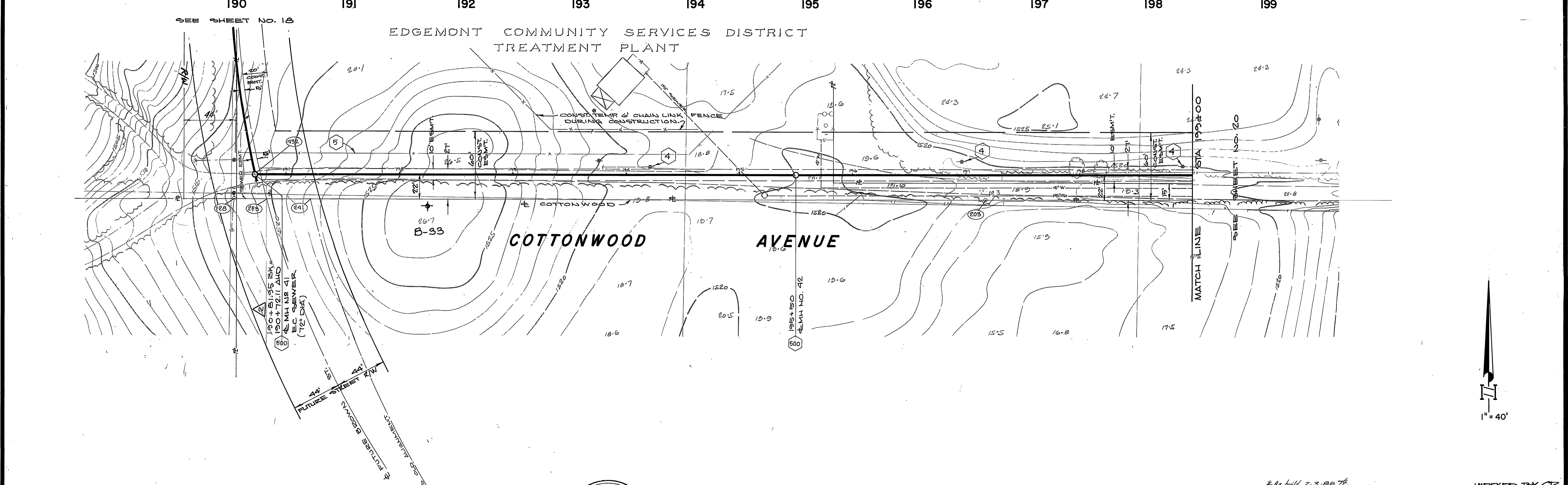
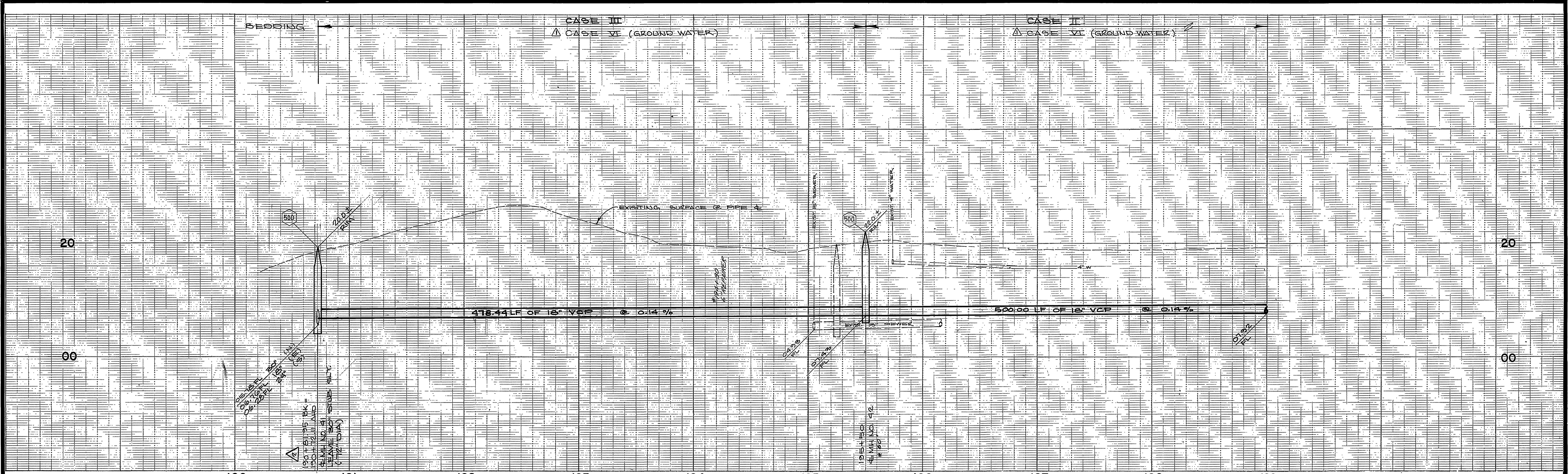
APPROVED BY: *William D. Gardner* DATE: 8-4-86
PRINCIPAL ENGINEER
TRAFFIC DIVISION
CHIEF P. W. ENGR.
DIRECTOR OF PUBLIC WORKS

CANYON SPRINGS
TRUNK SEWER
BROWN STREET (FUTURE)
STA 186+00.00 to STA 190+82.38

SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY CD
ACCOUNT No. 32-577-563
DRAWING NUMBER
S-1424
SHEET 18 OF 24
W.O. 85-55

*As built 2-3-88 T.E.



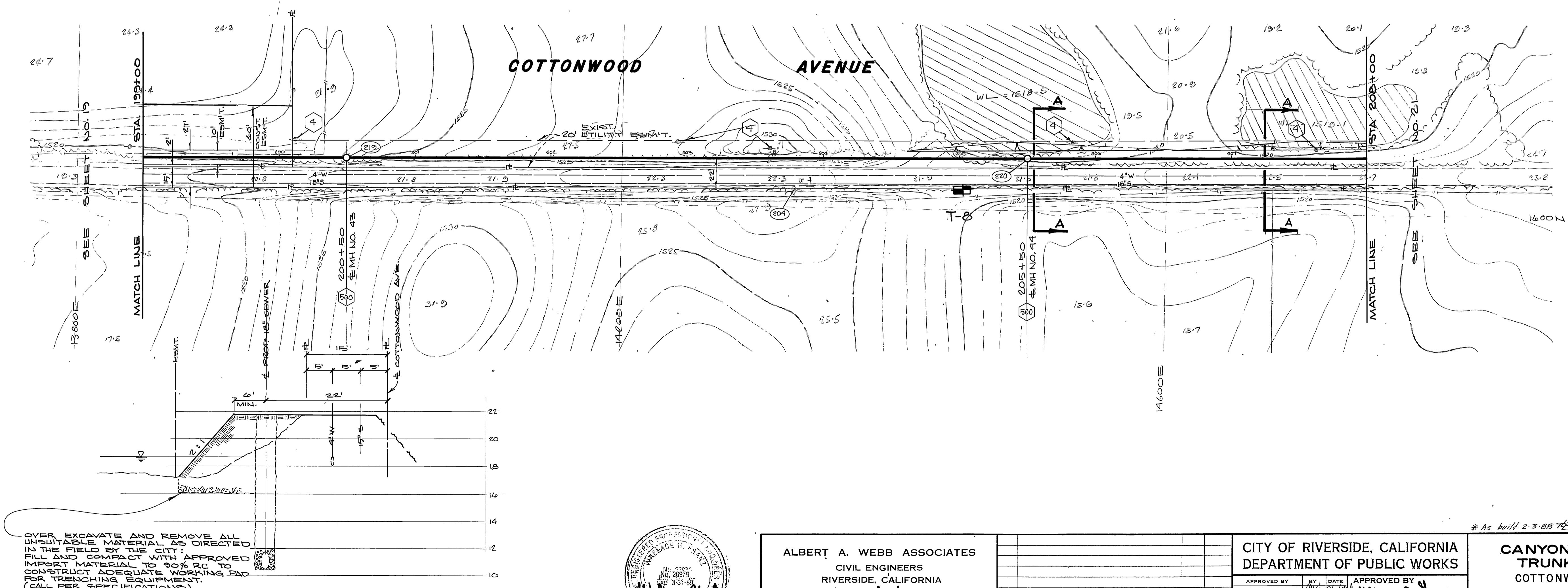
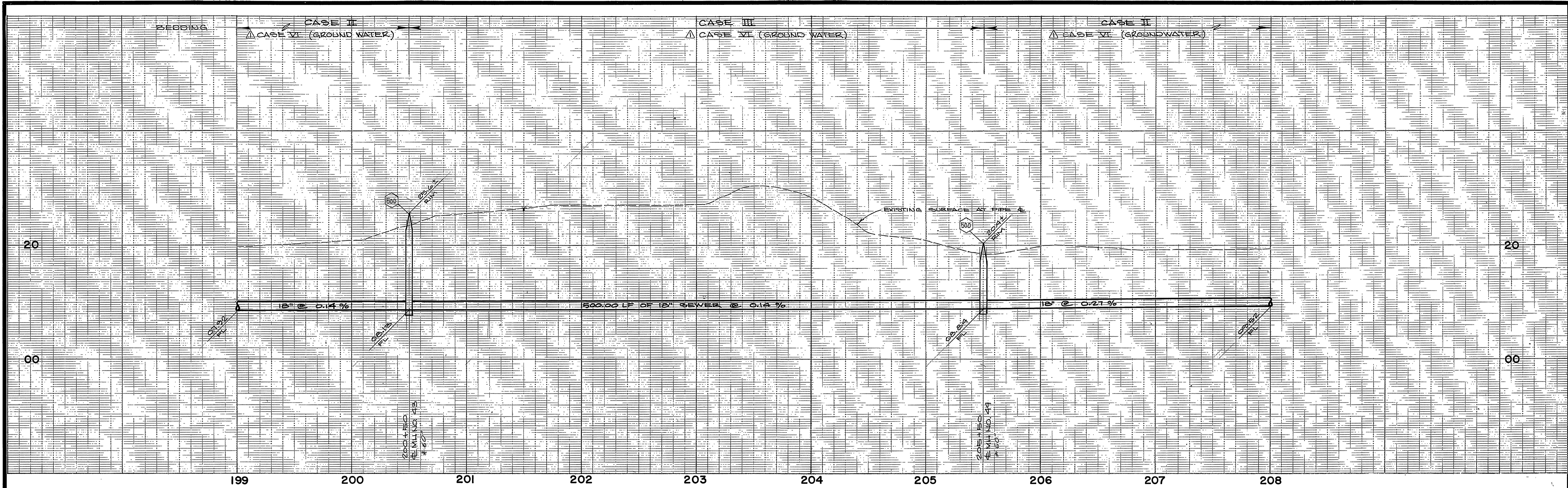
ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *William H. Franz* DATE: 7/2/86
 R.E. No. 26979
 W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

DESIGNED BY: <i>W</i>	DRAWN BY: <i>RP</i>	CHECKED BY: <i>WF</i>
REVISIONS 1. MOVE HORIZ. ALIGN. 10' WLY. 2. ADD CASE VI BEDDING FOR WET CONDITIONS 8-27 3.		

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William H. Franz* DATE: 8-4-86
 TRAFFIC DIVISION
 CHIEF TR. W. ENGR.
 DATE: 8-4-86

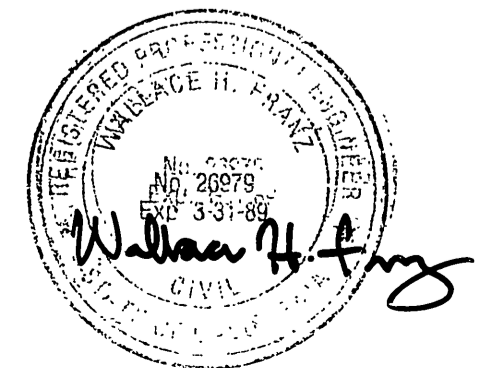
CANYON SPRINGS TRUNK SEWER
 COTTONWOOD AVENUE
 STA 190+82.38 to STA 199+00.00
 SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY *CD*
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET 19 OF 24
 W.O. 85-55



OVER EXCAVATE AND REMOVE ALL UNSUITABLE MATERIAL AS DIRECTED IN THE FIELD BY THE CITY; FILL AND COMPACT WITH APPROVED IMPORT MATERIAL TO 90% RC TO CONSTRUCT ADEQUATE WORKING PAD FOR TRENCHING EQUIPMENT. (CALL PER SPECIFICATIONS)

SECTION A-A
13-T-5



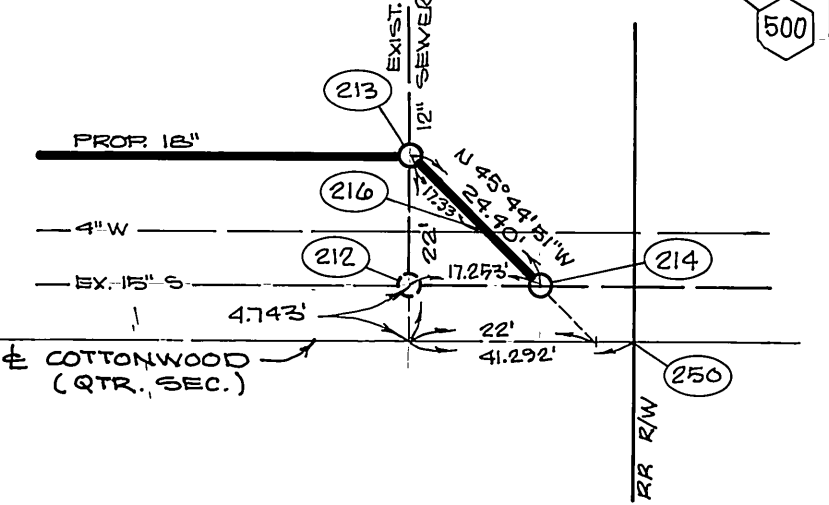
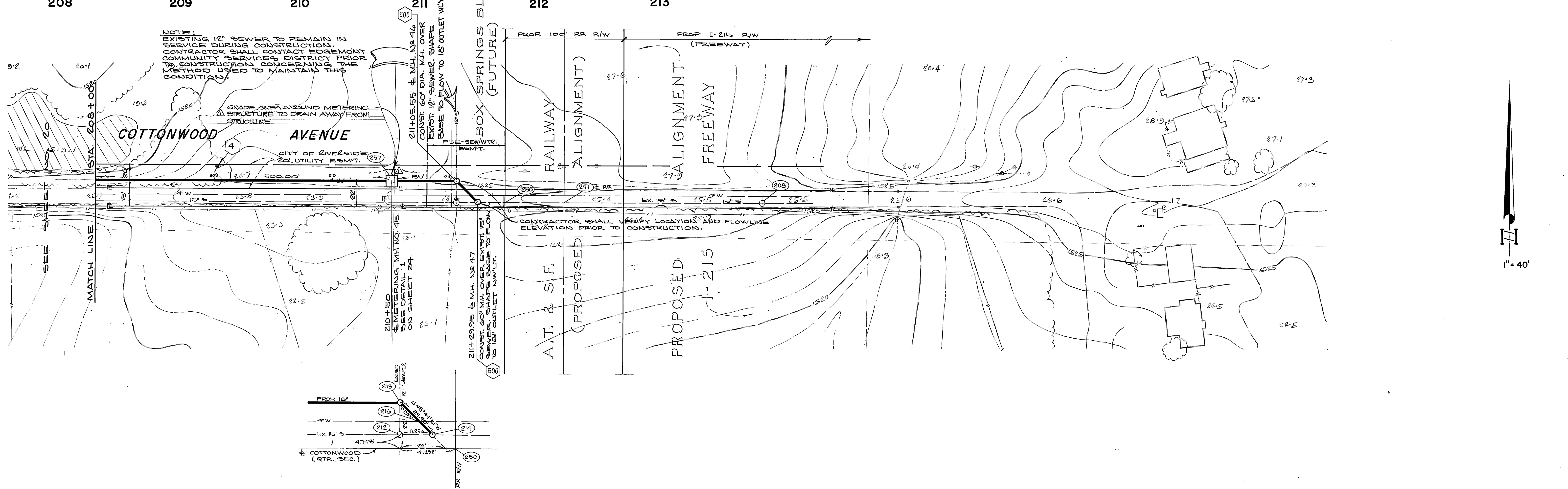
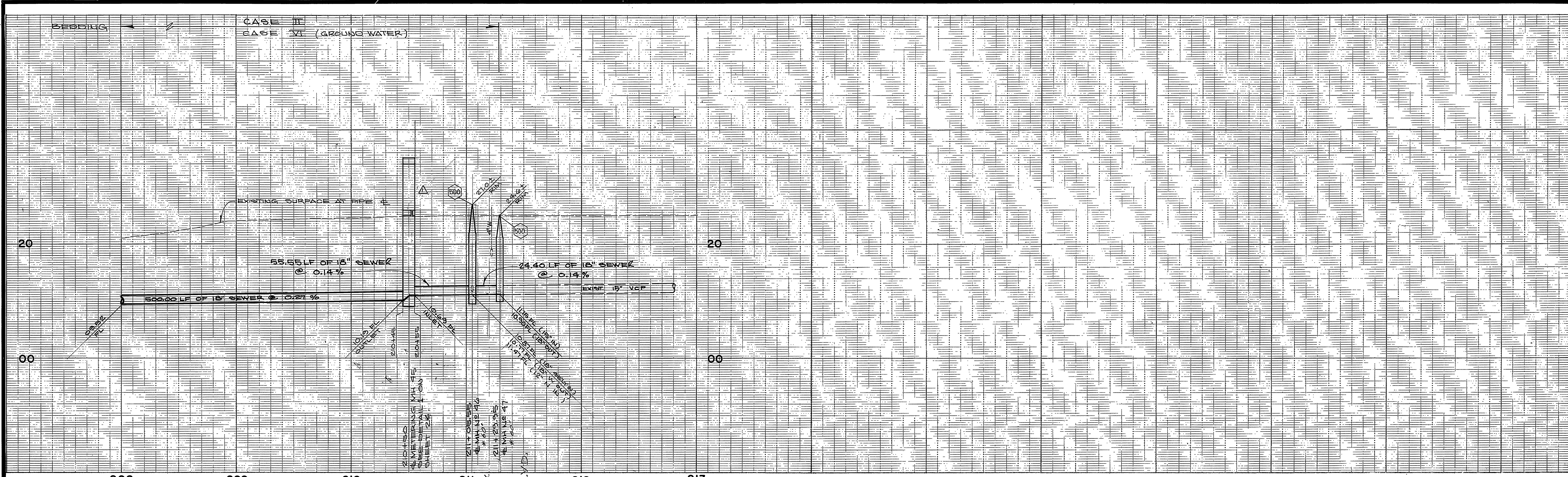
ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY: *Wallace H. Fry* DATE: 7/29/86
R.E. No. 26974

DESIGNED BY: *WJ* DRAWN BY: *RP* CHECKED BY: *WJ*
W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *William D. Hardin* DATE: 8-4-86
PRINCIPAL ENGINEER
TRAFFIC DIVISION
DIRECTOR OF PUBLIC WORKS

CANYON SPRINGS
TRUNK SEWER
COTTONWOOD AVENUE
STA 199+00.00 to STA 208+00.00
SCALE: 1" = 40' horiz., 1" = 8' vert.

INDEXED BY CD
ACCOUNT No. 32-577-563
DRAWING NUMBER
S-1424
SHEET 20 OF 24
W.O. 85-55



MANHOLE LOCATION DETAIL



ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 RIVERSIDE, CALIFORNIA
 APPROVED BY: *William H. Webb* DATE: *7/26/86*
 R.E. No. *26979*
 W.O. 85-55 FOR: CITY OF RIVERSIDE F.S. 1045

DESIGNED BY	DRAWN BY	CHECKED BY
<i>W</i>	<i>RP</i>	<i>W</i>

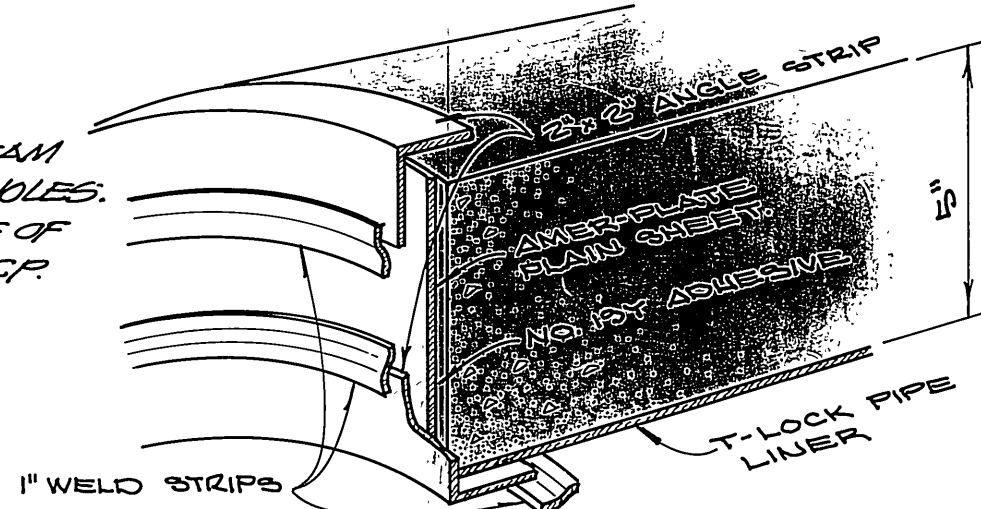
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *William D. Hardin* DATE: *8-27*
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P. W. ENGR.
 DATE: *8-4-86*

CANYON SPRINGS
 TRUNK SEWER
 COTTONWOOD AVENUE
 STA 208+00.00 to STA 211+29.95
 SCALE: 1" = 40' horiz., 1" = 8' vert.

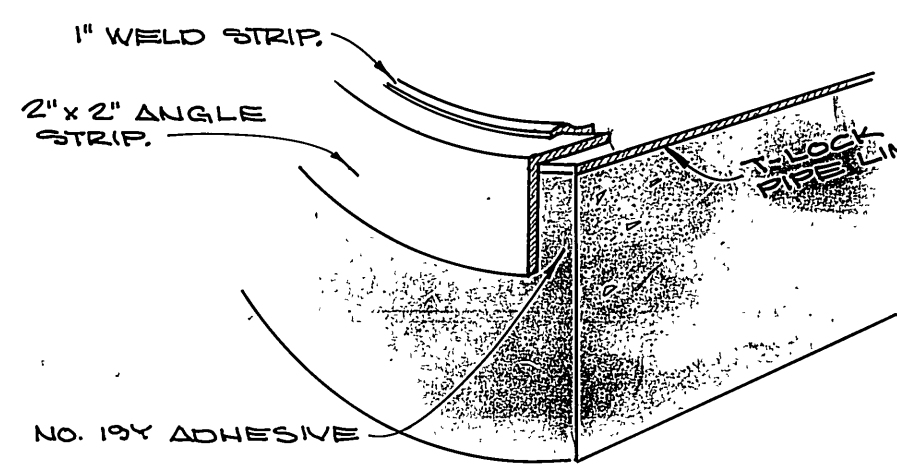
INDEXED BY
 ACCOUNT No. 32-577-563
 DRAWING NUMBER
S-1424
 SHEET *21* OF *24*
 W.O. 85-55

NOTE:

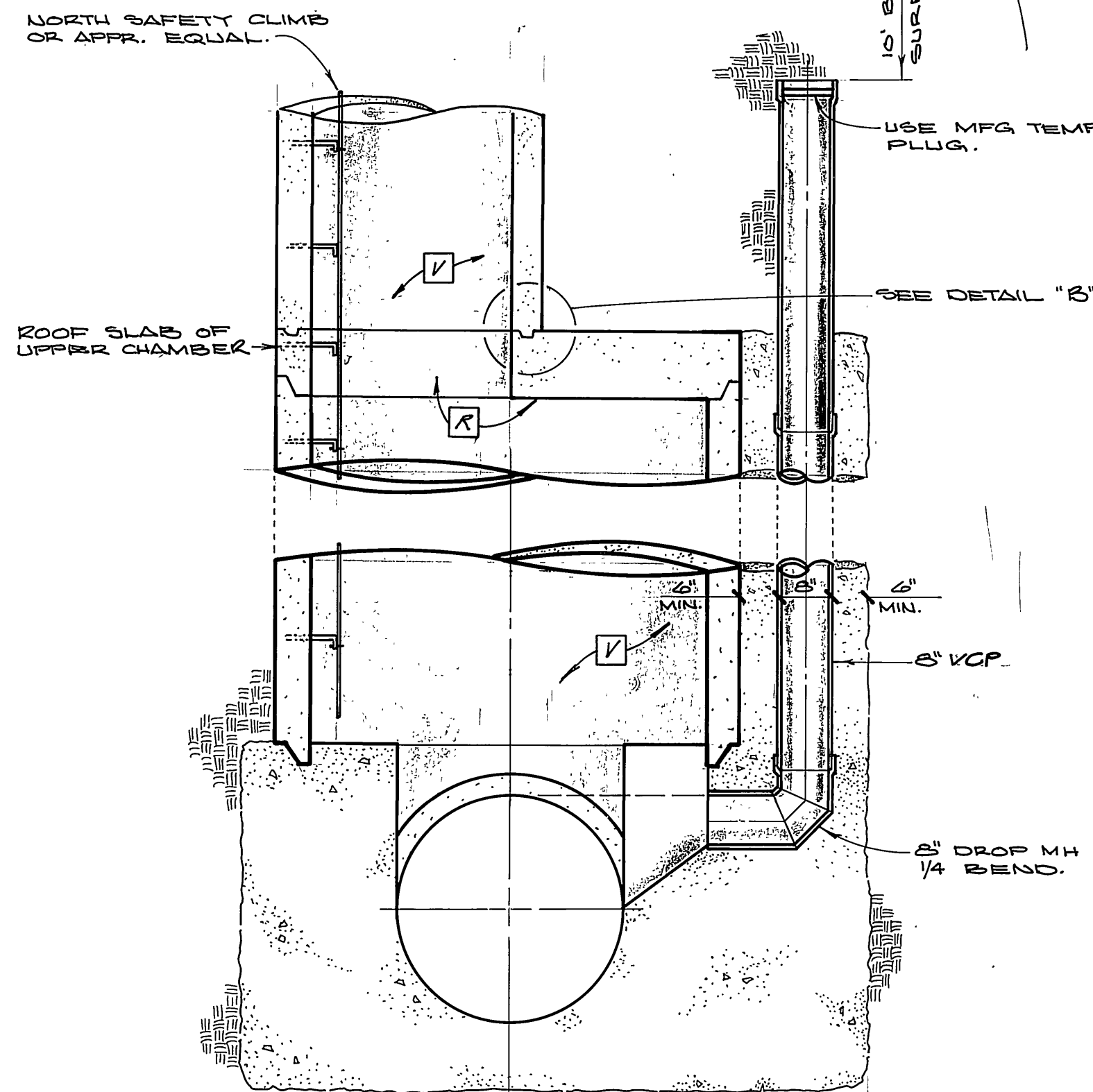
CONTRACTOR SHALL INSTALL TURNBACKS OF VINYL LINING AT UPSTREAM AND DOWNSTREAM ENDS OF 42" RCP AT ALL MANHOLES. TURNBACK MATERIAL SHALL BE OF SAME TYPE USED TO LINE RCP.



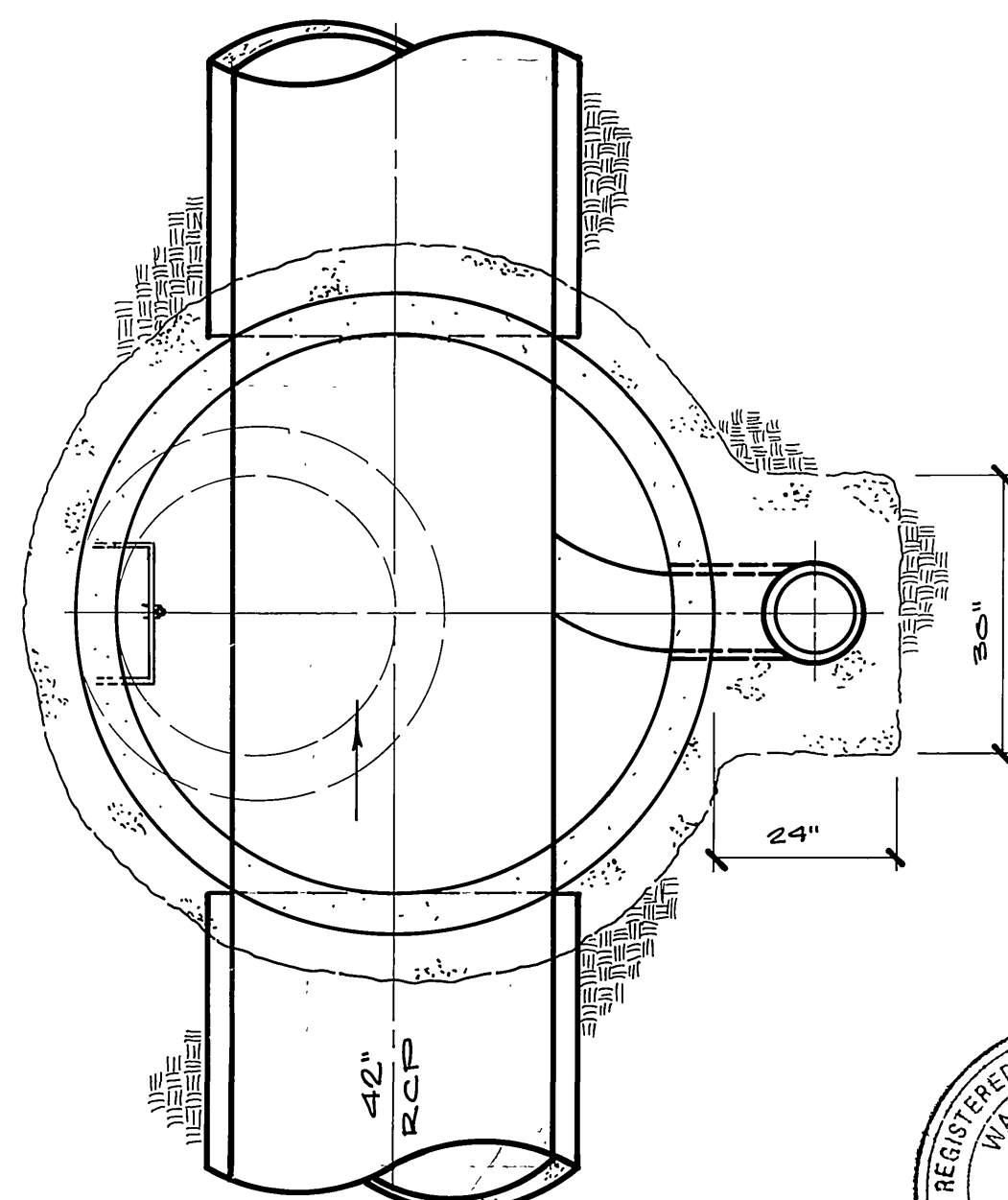
FIELD INSTALLED TURN BACK AT MANHOLE ON UPPER HALF OF 42" RCP.



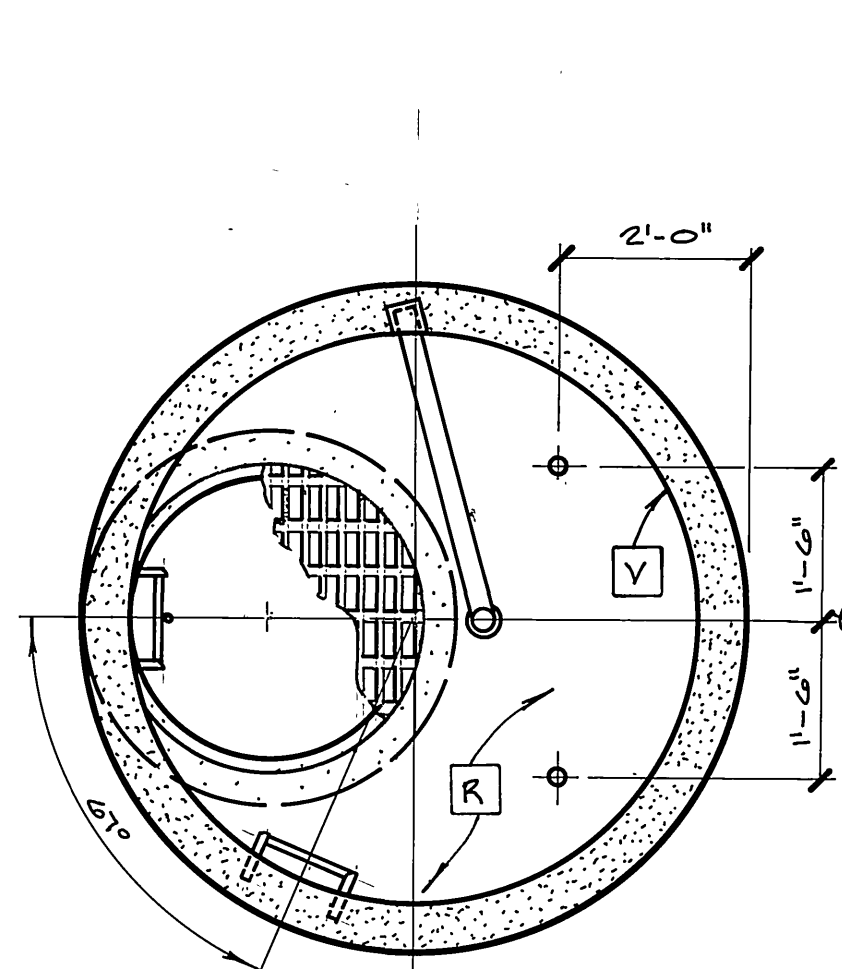
FIELD INSTALLED TURN BACK AT MANHOLE ON LOWER HALF OF 42" RCP.



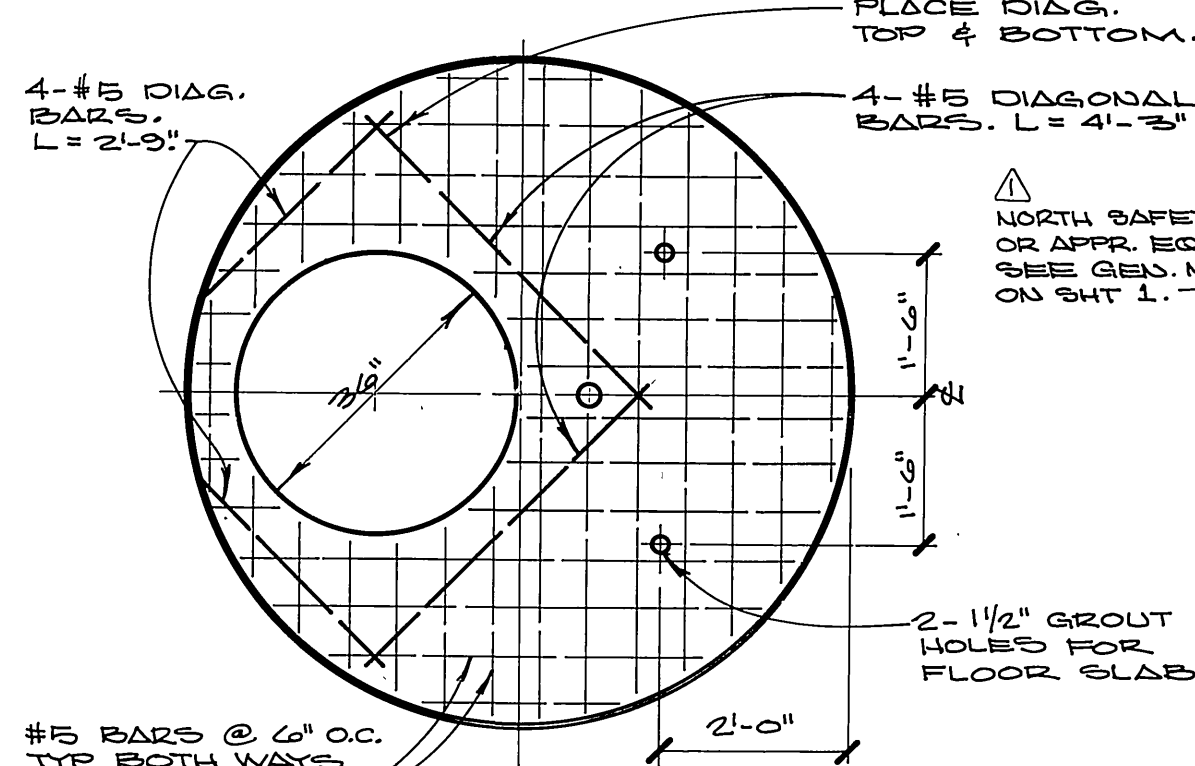
VERTICAL DROP STUB DETAIL
STA 126+00 & STA 150+00



VERTICAL DROP STUB DETAIL
STA 126+00 & STA 150+00

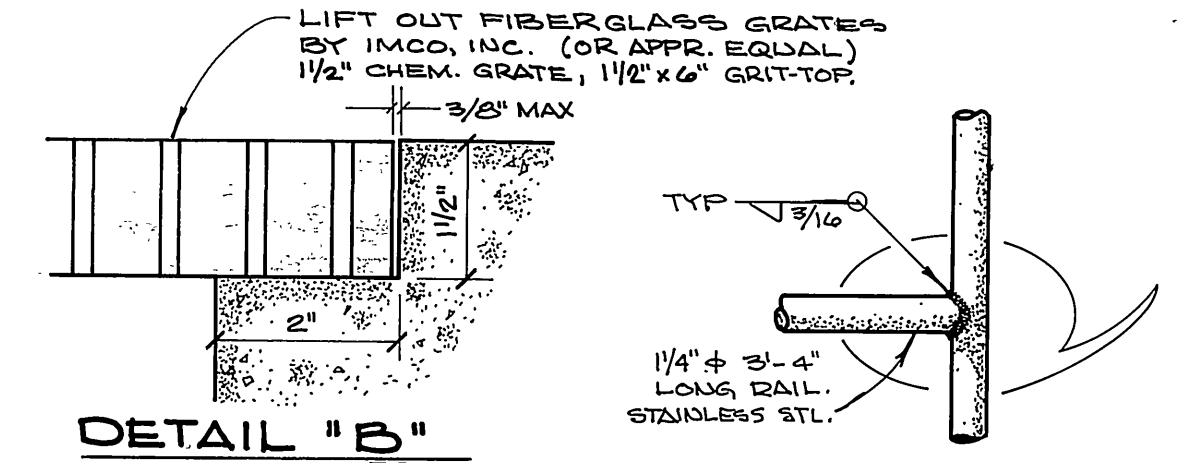


SECTION "A-A"

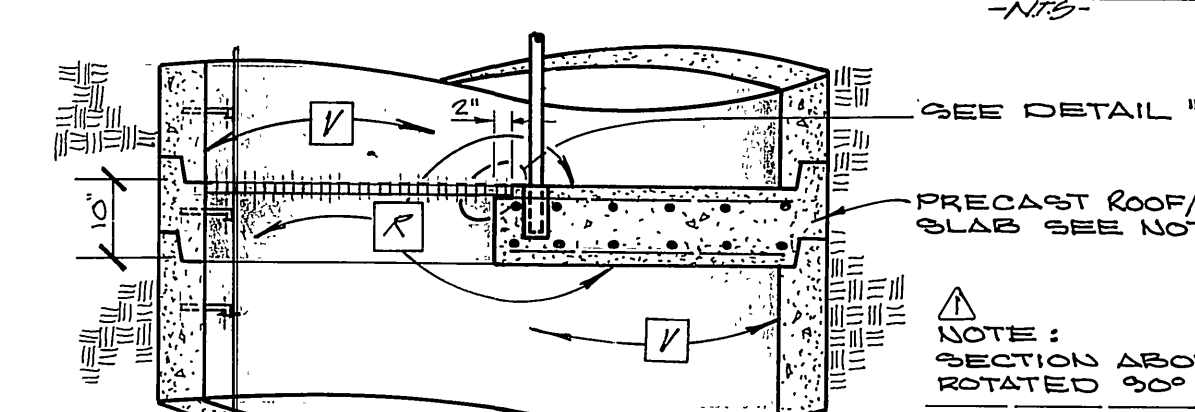


SECTION "B-B"

REINFORCEMENT DETAILS FOR FLOOR & ROOF SLABS

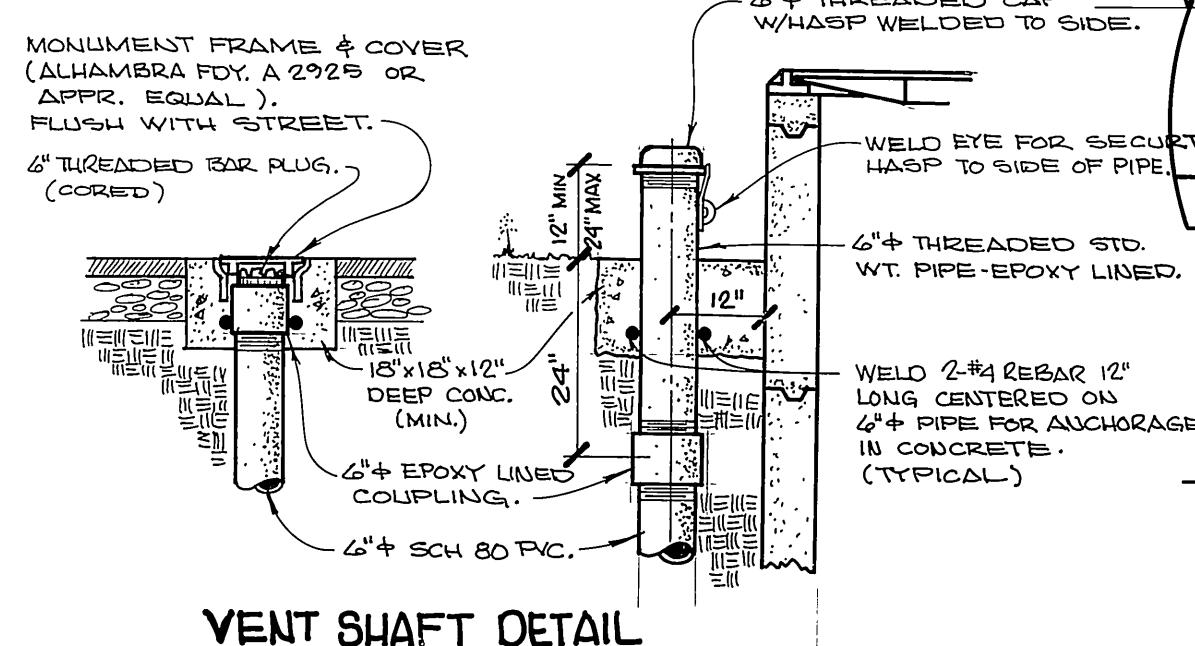


DETAIL "A"

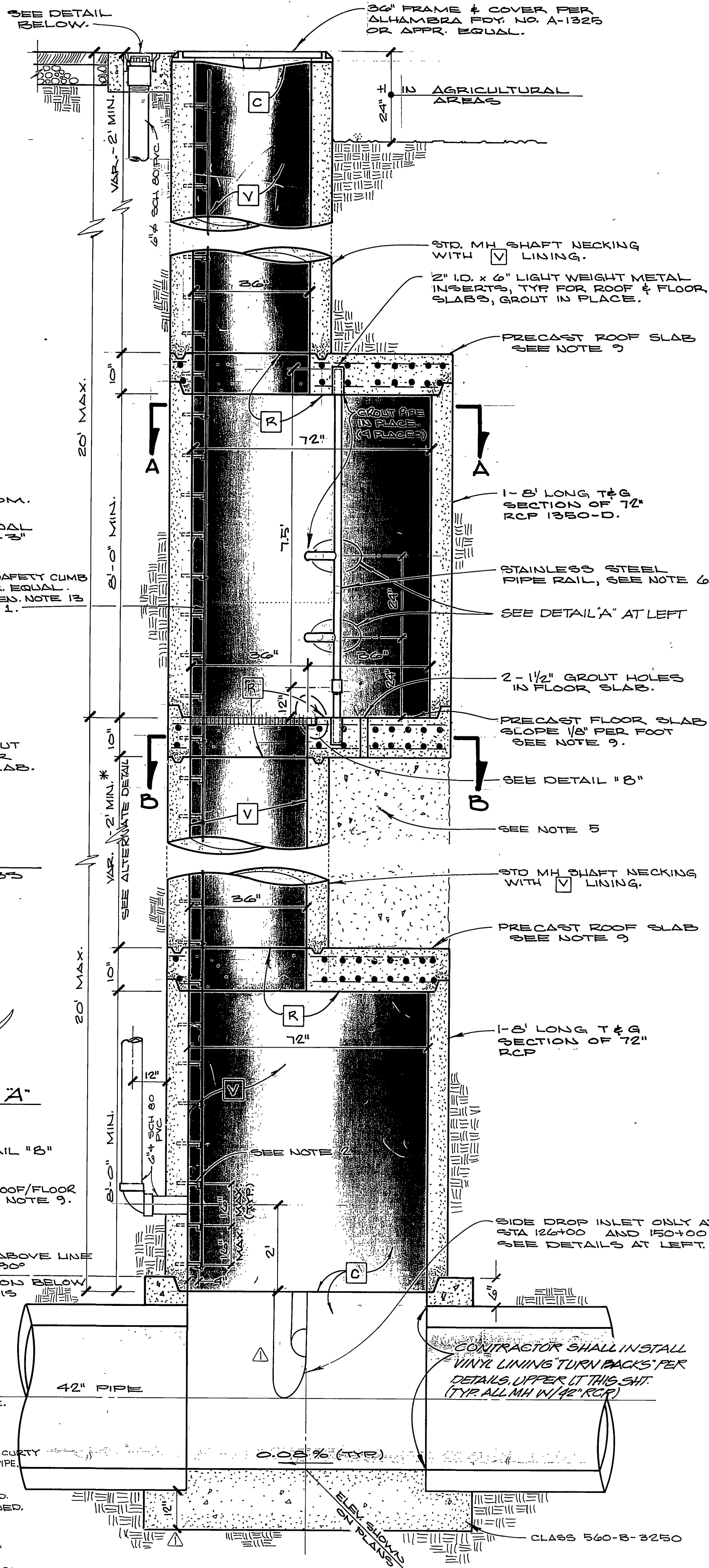


DETAIL "B"

*ALTERNATE CONSTRUCTION FOR MANHOLES 20' TO 24' TO SHELF.



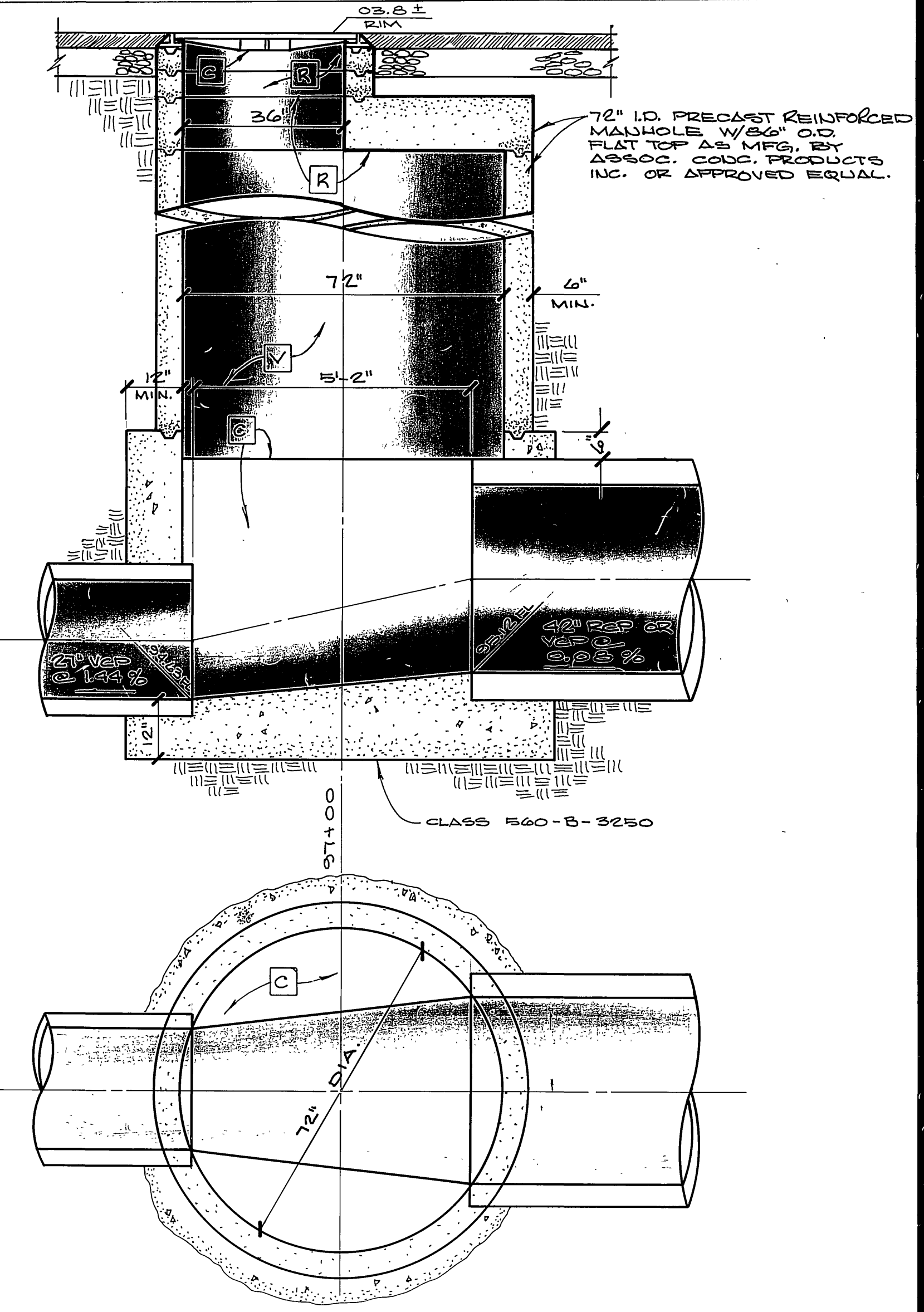
VENT SHAFT DETAIL



TYPICAL DEEP MANHOLE (OVER 24' TO SHELF) WITH SAFETY LEDGE

DEEP MANHOLE GENERAL NOTES

1. MANHOLE SHAFT SAFETY LEDGE WILL BE NOTED ON THE PROJECT DRAWINGS WHEN REQUIRED. GENERALLY IT IS TO BE CONSTRUCTED IN DEEP MANHOLE SHAFTS 24 FT. OR GREATER IN DEPTH.
2. PROVIDE INDIVIDUAL RUNG LADDER CONFORMING TO OSHA REQUIREMENTS. STEPS SHALL BE PLASTIC, REINFORCED WITH 1/2" STEEL BAR. TREAD SHALL BE NON-SKID WITH SIDES RAISED TO PREVENT SLIPPING.
3. CONCRETE SHALL BE CLASS 560-C-3250 OR GREATER.
4. REINFORCEMENT SHALL BE PER ASTM A615, GRADE 40 REINFORCING STEEL SHALL TERMINATE 2" CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
5. GROUT HOLES, PIPE, AND FITTINGS SHALL BE PROVIDED IN THE FLOOR SLAB. PRESSURE GROUTING SHALL BE USED TO FILL VOIDS AND TO SECURE UNIFORM BEARING. THE GROUT SHALL BE NEAT CEMENT GROUT AND GROUTING PRESSURES SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
6. PIPE RAIL SHALL BE FABRICATED OF 1 1/4" STANDARD STAINLESS STEEL PIPE COMPOSED OF TWO SECTIONS 75' & 15' IN LENGTH JOINED BY A STAINLESS STEEL COUPLING. THE COUPLING SHALL BE THREADED A MINIMUM OF 2' ON EACH PIPE LENGTH.
7. ROOF AND FLOOR SLABS SHALL BE PRECAST AND KEYS FOR REINFORCED CONCRETE PIPE SECTIONS AS SHOWN. ALL JOINTS SHALL BE FILLED WITH 1-2 MORTAR AND NEATLY POINTED OR WIRED ON THE INSIDE.
8. 72" RCP SHALL BE PROVIDED WITH TWO CIRCULAR CAGES OF REINFORCEMENT.
9. ALL INTERIOR SURFACES OF ROOF AND FLOOR SLABS TO BE COATED PER COATING AND LINING SCHEDULE, SYSTEM R.

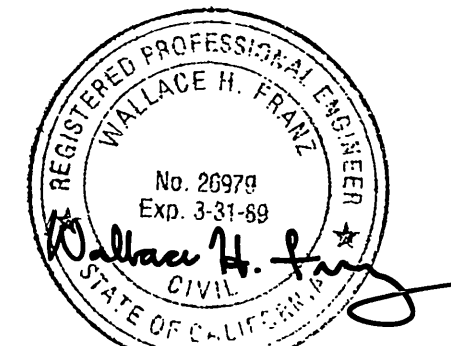


TRANSITION MANHOLE DETAIL
STA. 97+00

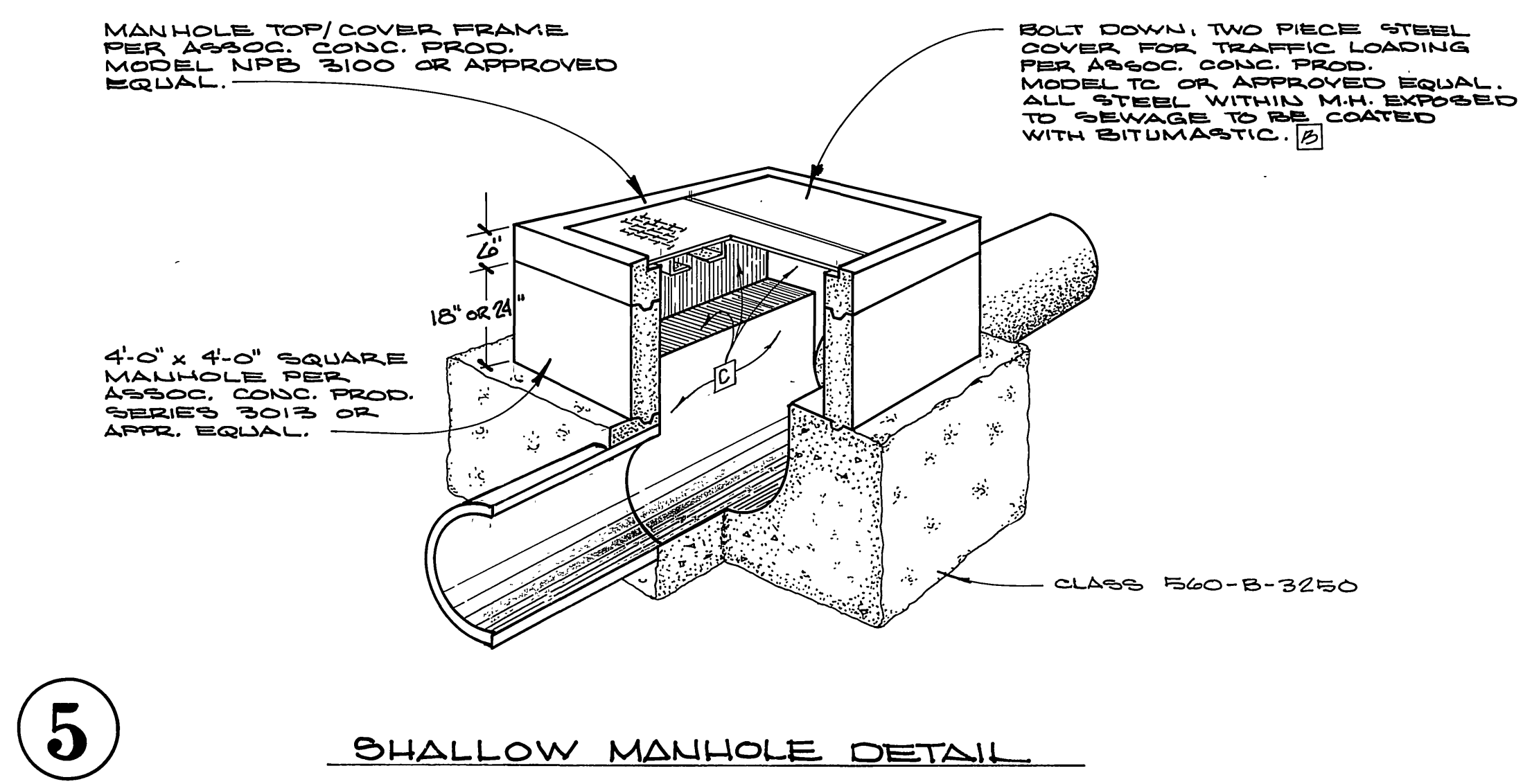
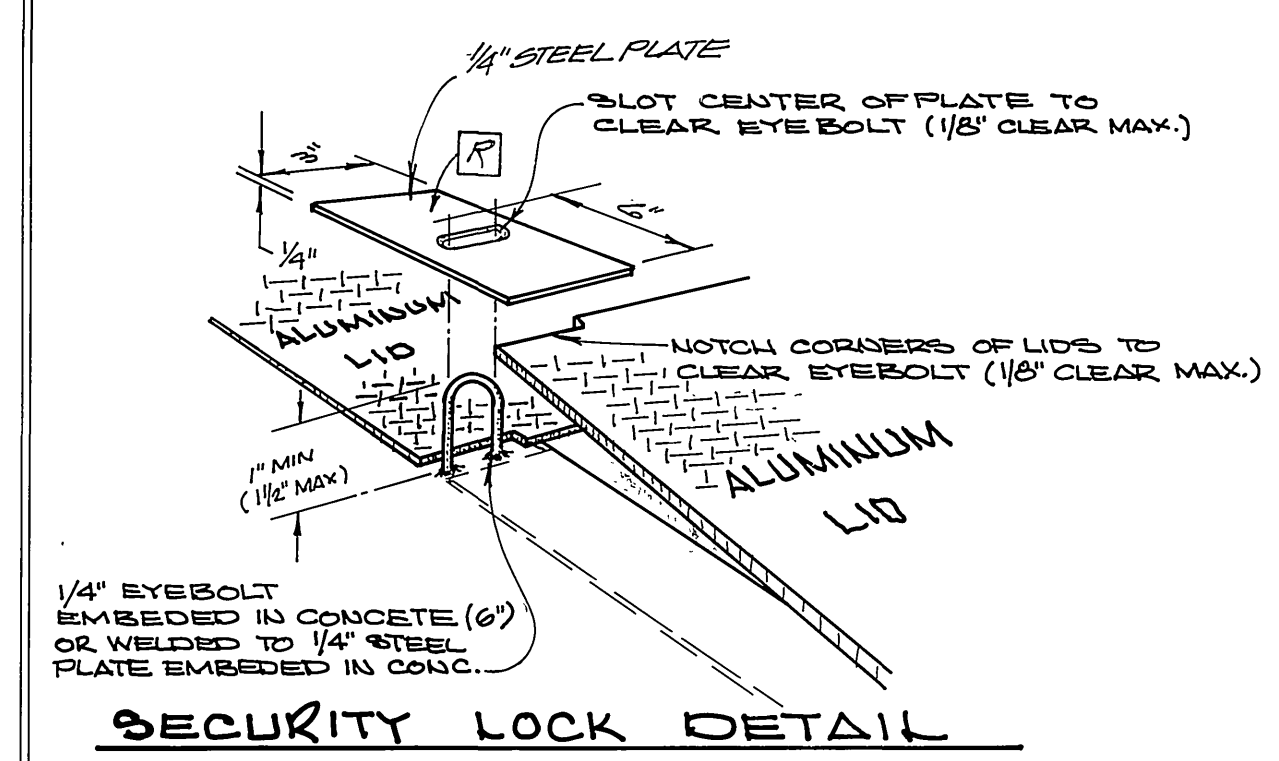
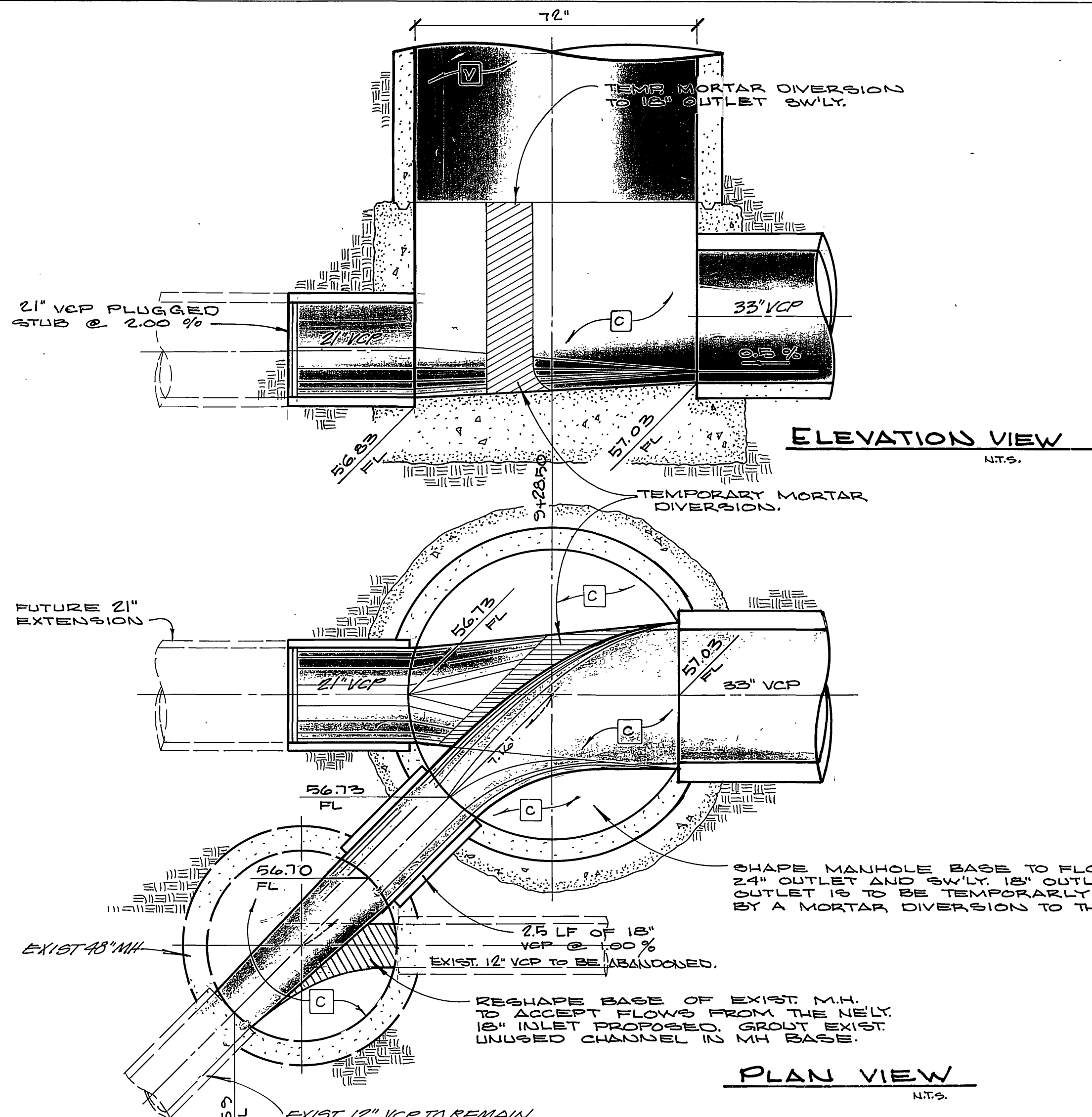
3

*As built 2-3-88 76 INDEXED BY C.D.

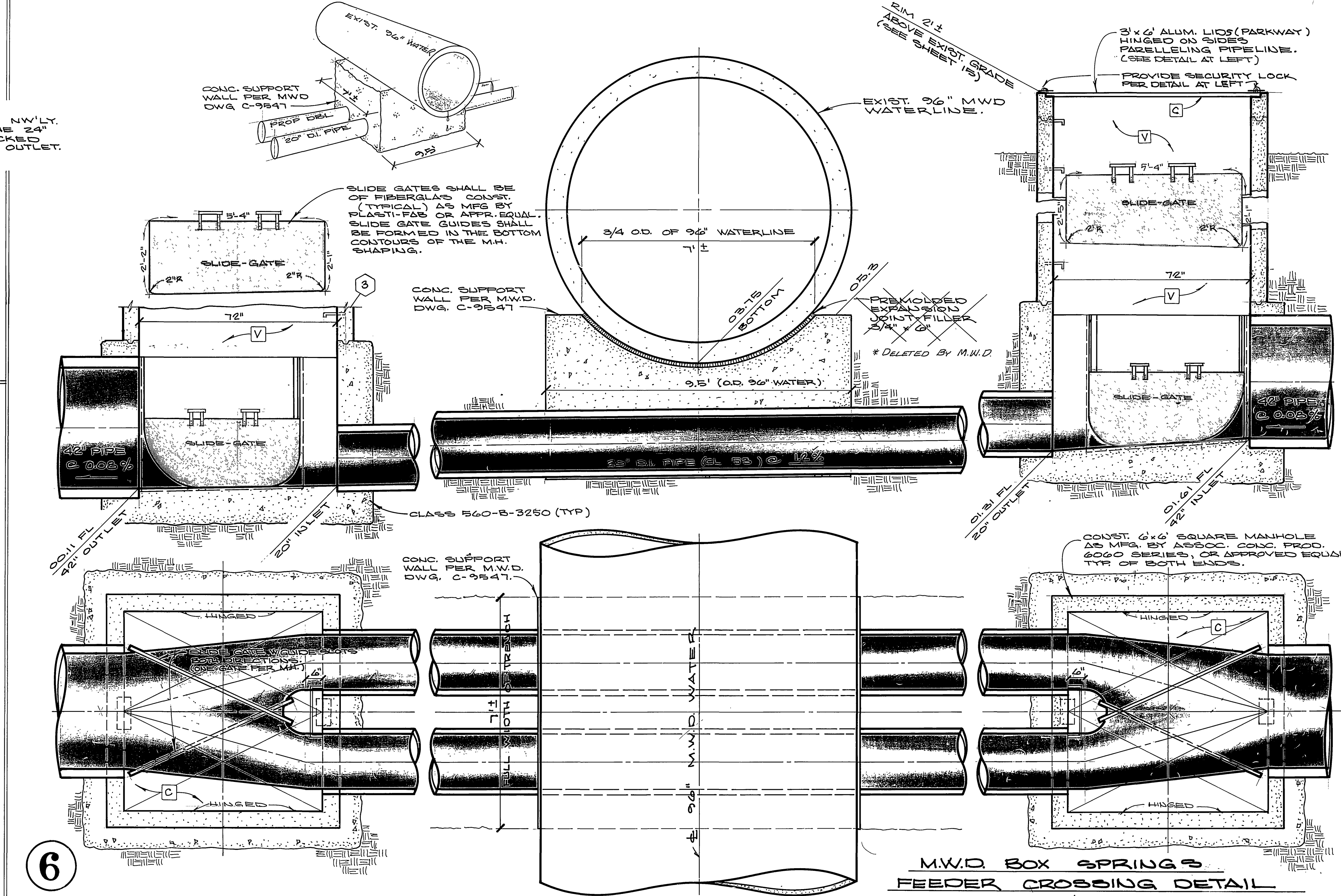
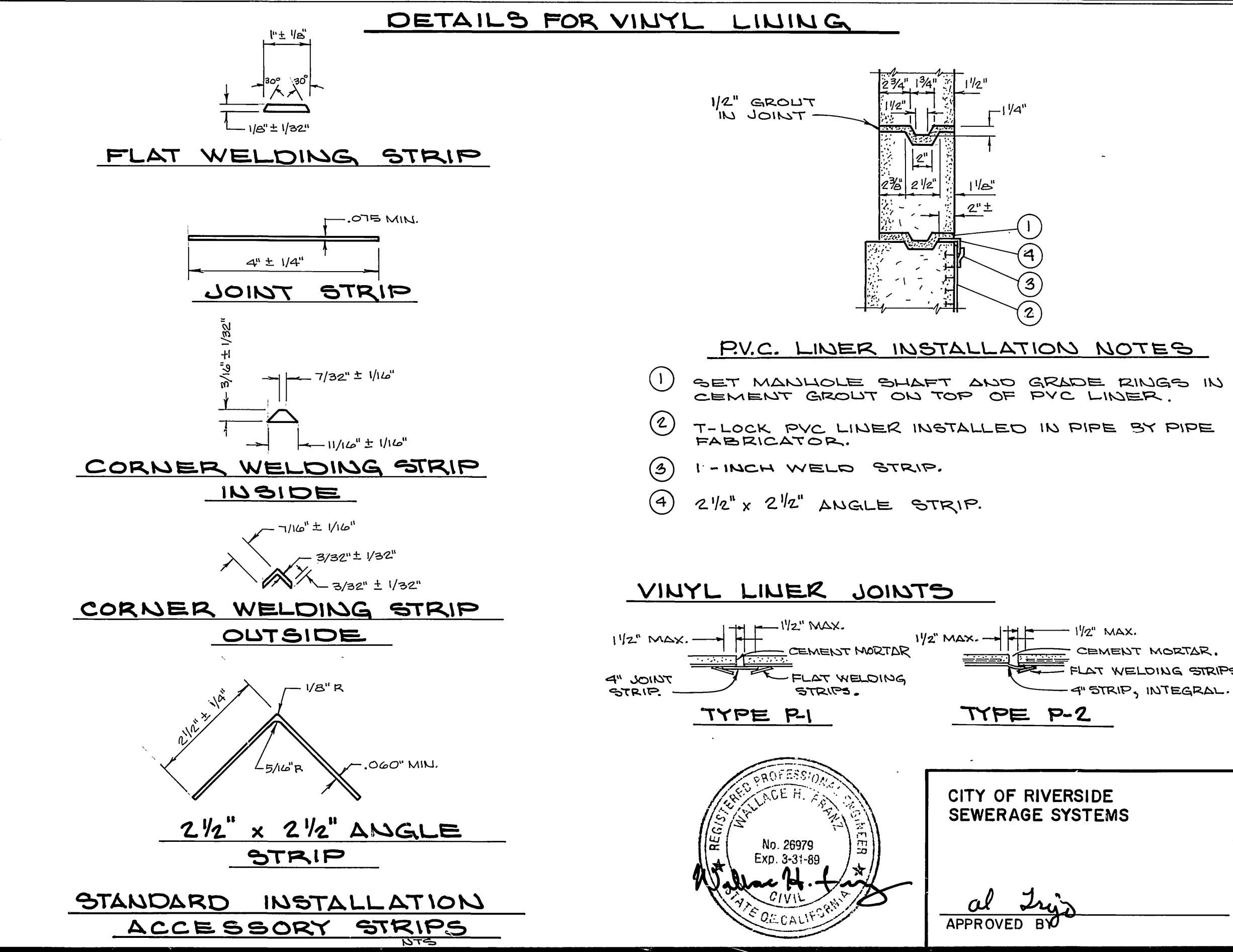
2



CITY OF RIVERSIDE SEWERAGE SYSTEMS	ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA	APPROVED BY: <i>William H. Webb</i> DATE: 7/29/86 R.E. No. 20919	CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	CANYON SPRINGS TRUNK SEWER	ACCOUNT No. 32-577-563
					DRAWING NUMBER S-1424
APPROVED BY: <i>al Ligo</i>	DATE: 7-31-86	DESIGNED BY: <i>RP</i>	DRAWN BY: <i>RP</i>	CHECKED BY: <i>WF</i>	SCALE: N.T.S.
W.O. 85-55 FOR: CITY OF RIVERSIDE F.B. 1045			DATE: 8-4-86		



4 DIVERSION MANHOLE DETAIL
STA 10+00 TO 10+22



6 M.W.D. BOX SPRINGS FEEDER CROSSING DETAIL



CITY OF RIVERSIDE SEWERAGE SYSTEMS

APPROVED BY *al Lopez*

DATE 7-31-86

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA

APPROVED BY *Wallace R. Frank* DATE 7/31/86

R.E. No. 26979

W.O. 85-55 FOR CITY OF RIVERSIDE F.B. 1045

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY *Wallace R. Frank* DATE 7/31/86

PRINCIPAL ENGINEER

TRAFFIC DIVISION

CHIEF PUB. WKS. ENGR.

DATE 8-4-86

CANYON SPRINGS TRUNK SEWER
DETAILS

SCALE: N.T.S.

INDEXED BY *CD*

ACCOUNT No. 32-577-563

DRAWING NUMBER **S-1424**

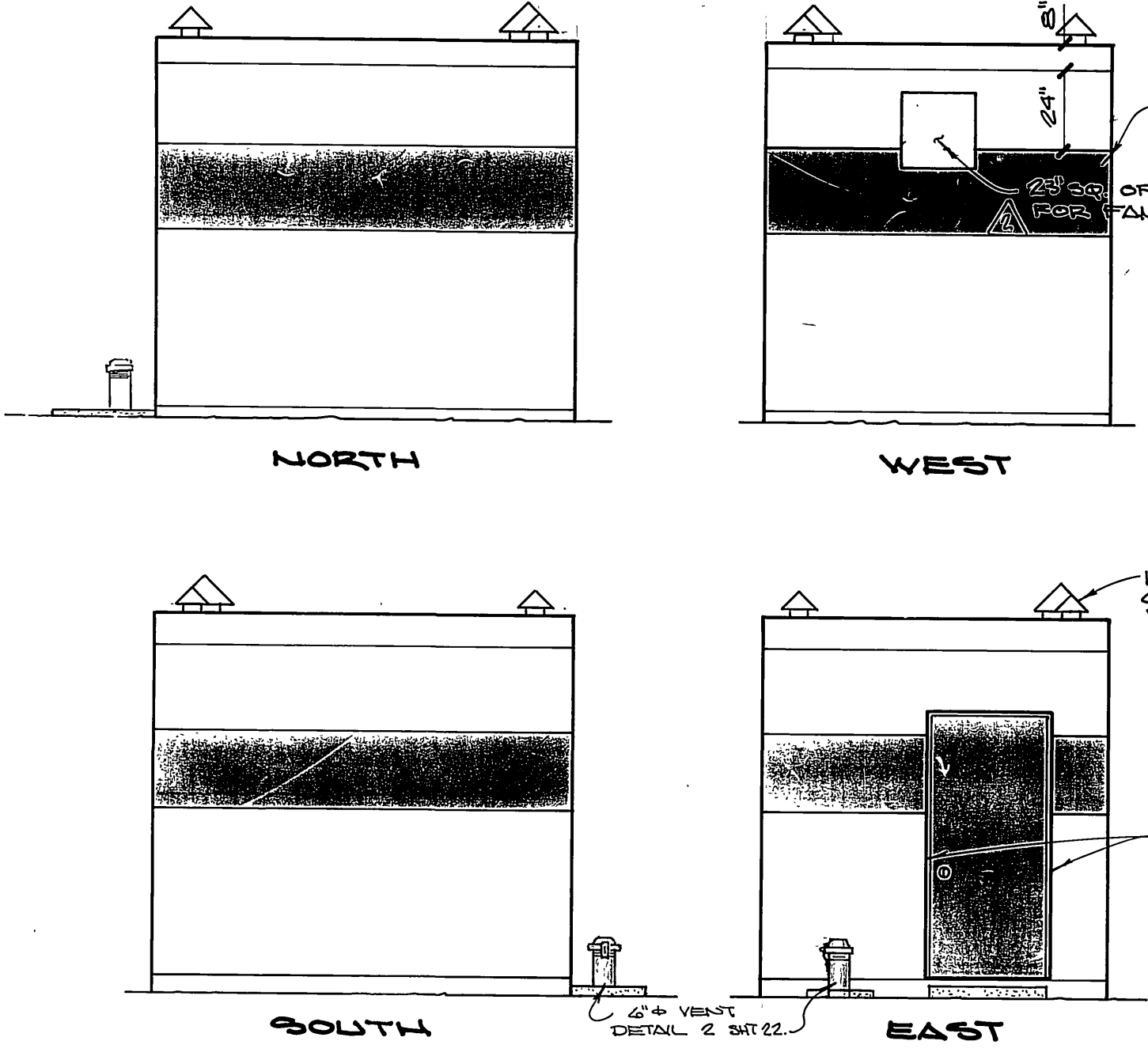
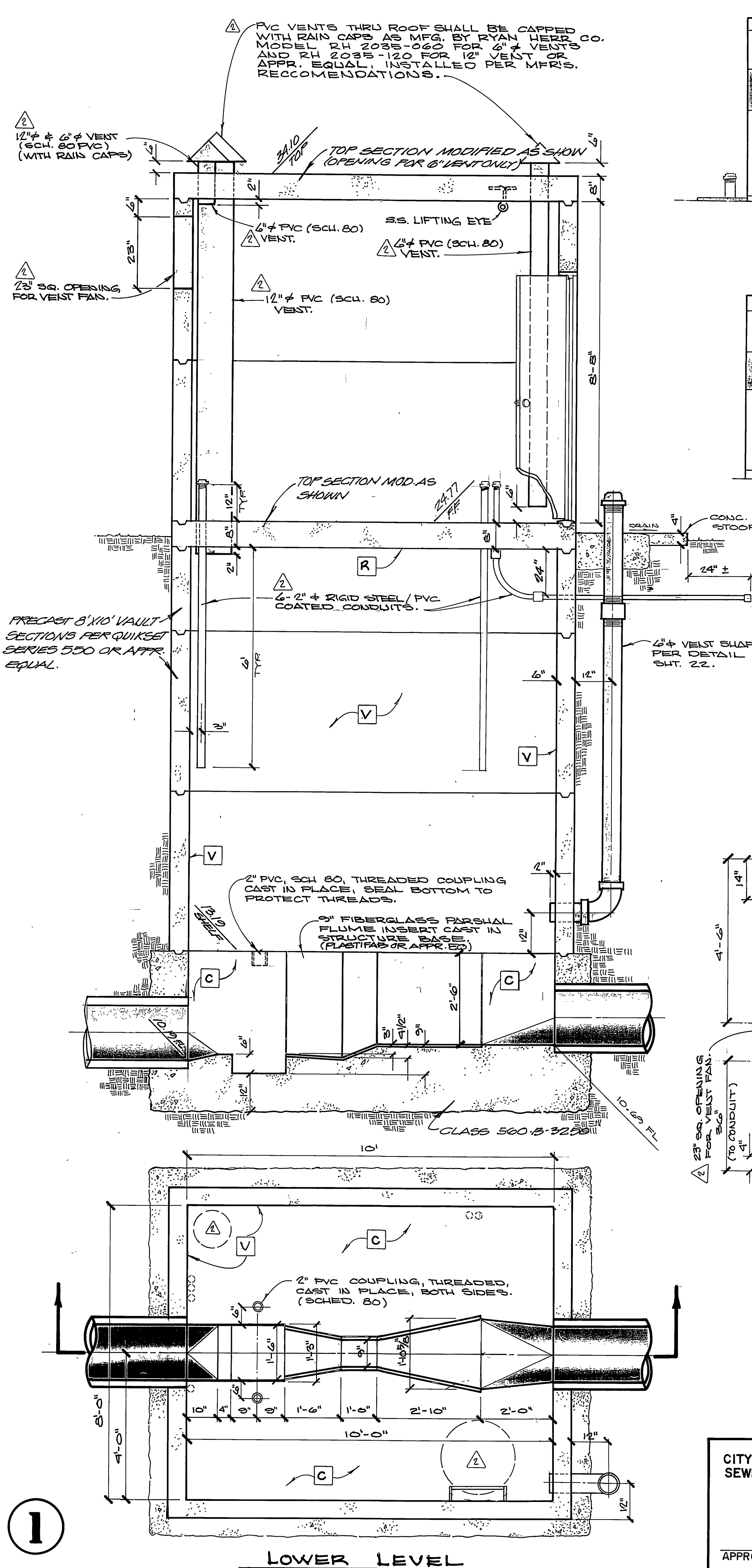
SHEET 23 OF 24

W.O. 85-55

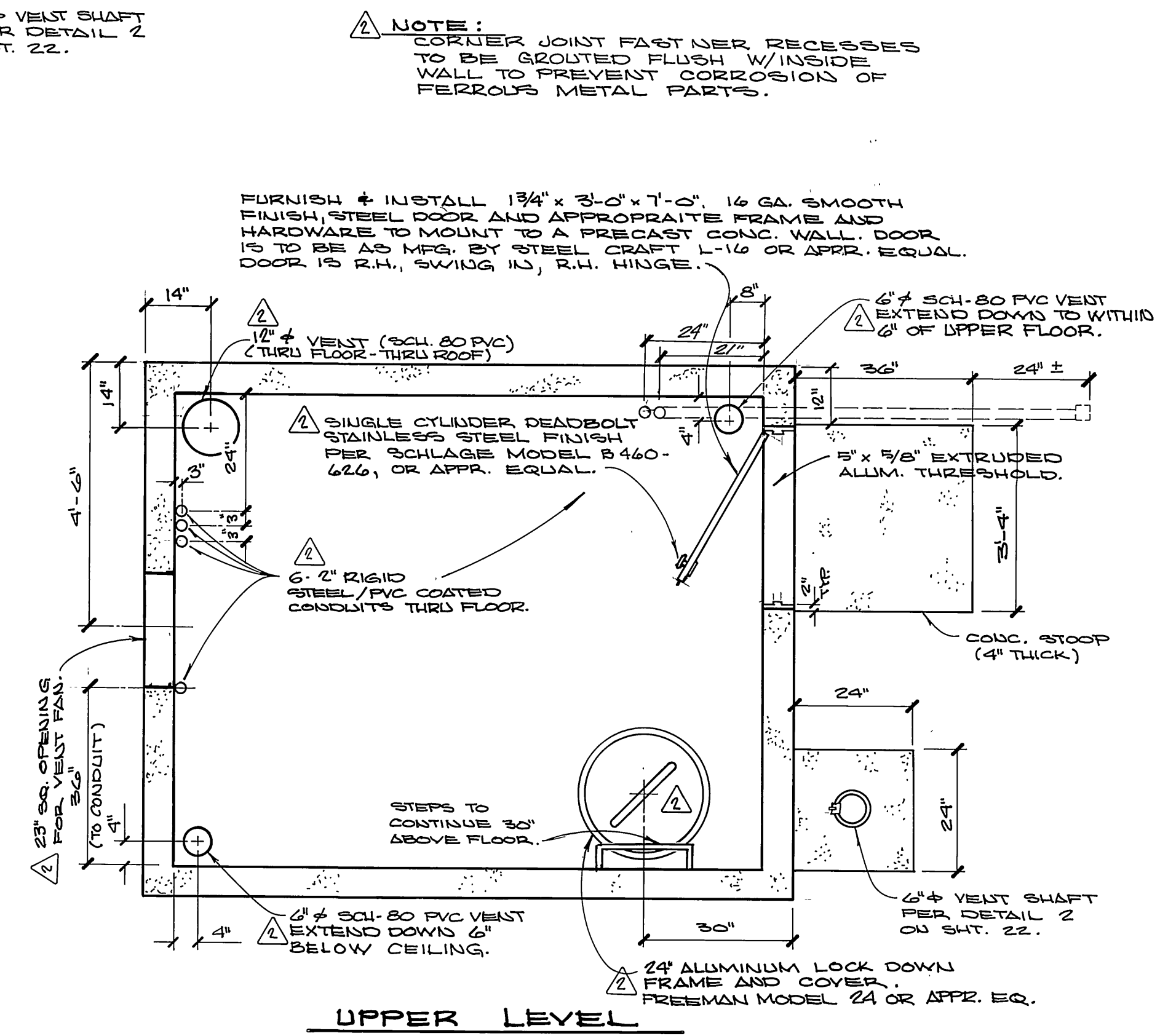
NOTE: ALL JOINTS TO BE WATER PROOFED

COATING AND LINING SCHEDULE

- C ALL EXPOSED INTERIOR SURFACES OF MANHOLE BASE AND FRAME ALSO COVER TO BE COATED WITH KOPPERS 300-N, COAL TAR EPOXY PER MANUFACTURER'S RECOMMENDATIONS, OR APPROVED EQUAL.
- R ALL EXPOSED INTERIOR SURFACES OF MANHOLE FLOOR OR ROOF SLABS TO BE COATED WITH KOPPERS RAMULC FLOOR ENAMEL PER MANUFACTURER'S RECOMMENDATIONS, (COLOR NO. 383 LIGHT TAN) OR APPROVED EQUAL.
- V ALL EXPOSED INTERIOR SURFACES OF MANHOLE SHAFT TO BE LINED WITH "IT-LOCK AMER PLATE" (WHITE) AS MANUFACTURED BY AMERON PROTECTIVE COATING DIVISION OR APPROVED EQUAL.
- B BITUMASTIC NO. 50.



ELEVATIONS
SCALE 1" = 4'



UPPER LEVEL



1

CITY OF RIVERSIDE SEWERAGE SYSTEMS APPROVED BY <i>[Signature]</i> DATE 8-28-86	ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS RIVERSIDE, CALIFORNIA APPROVED BY <i>[Signature]</i> DATE 8/26/86 R.E. No. 22917	CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT APPROVED BY <i>[Signature]</i> DATE 8/27/86 PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF PUB. WKS. ENGR.	CANYON SPRINGS TRUNK SEWER DETAILS S-1424 SHEET 24 OF 24 W.O. 85-55

*As built 2.3.88 TE

SCALE: N.T.S.