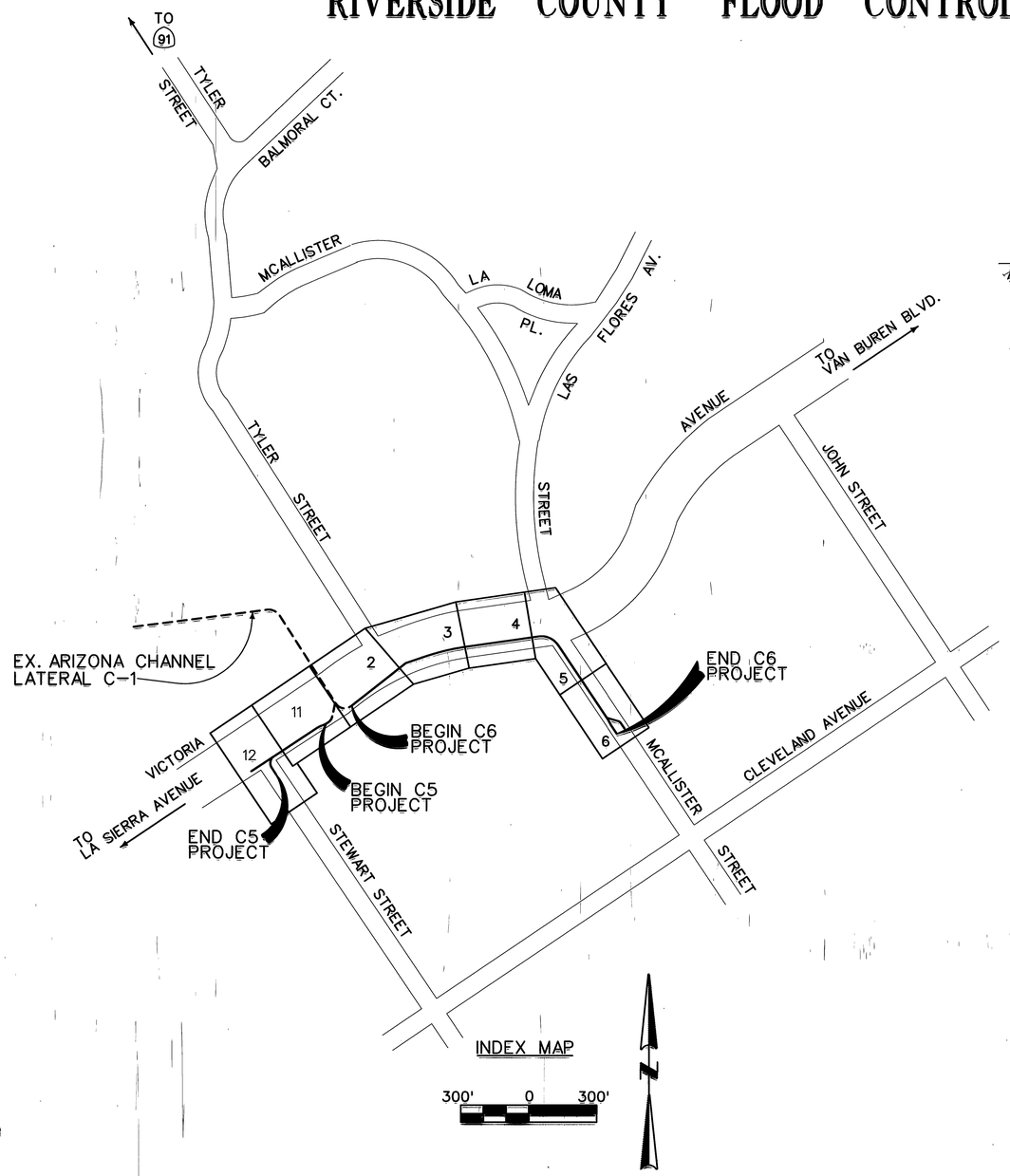
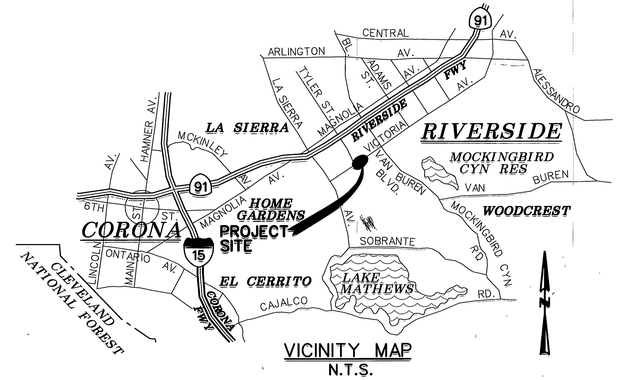
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT



INDEX MAP

300' 0 300'



VICINITY MAP
N.T.S.

GENERAL NOTES

1. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
2. ALL CHANNEL/ STORM DRAIN REFERENCES AND CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
3. TOPOGRAPHY BY DIGITAL PHOTOGRAMMETRIC METHODS. AERIAL PHOTOGRAPHS TAKEN AT AN ALTITUDE NOT TO EXCEED A FLYING HEIGHT TO CONTOUR INTERVAL RATIO OF 1800. PHOTOGRAPHY DATED 10/27/89.
4. STANDARD DRAWINGS CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STANDARD DRAWINGS AND CALTRANS/ CITY/ COUNTY STANDARD PLANS.
5. ELEVATIONS AND LOCATIONS OF UTILITIES WERE OBTAINED FROM AVAILABLE INFORMATION AND ARE SHOWN APPROXIMATELY ON THESE PLANS. 48 HOURS BEFORE EXCAVATION CALL UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ALL UTILITIES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.
6. THE CONTRACTOR IS REQUIRED TO CONTACT ALL UTILITY AGENCIES REGARDING TEMPORARY SUPPORT AND SHORING REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
7. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES, OR SIMILAR STRUCTURES TO BE ABANDONED, SHALL BE SEALED AT BOTH ENDS WITH 6" MINIMUM, CLASS "B" CONCRETE.
8. STREET RECONSTRUCTION SHALL BE 0.25' TYPE "B" ASPHALT CONCRETE OVER 6" CLASS 2 AGGREGATE BASE OR IN KIND, WHICHEVER IS GREATER.
9. ALL RECONSTRUCTION, RESURFACING AND PAVEMENT DELINEATION, CURBS, SIDEWALKS AND OTHER IMPROVEMENTS ARE TO BE RECONSTRUCTED IN KIND AT THE SAME LOCATIONS AND ELEVATIONS AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
10. ◐ INDICATES SOIL BORING LOCATION PER SOILS REPORT DATED NOVEMBER 30, 1990.

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REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DAVID P. ZAPPE No. 22035 Exp. 9-30-97 CIVIL STATE OF CALIFORNIA

AS BUILT
APPROVED BY: [signature]
DATE 5/26/99

D-721

DUPLICATE OF ORIGINAL - DO NOT REVISE

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT
APPROVED BY: [signature]
PUBLIC WORKS DIRECTOR
DATE: 11/18/96
11/7/96 [initials] 11/7/96

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK
RCFC BM 9-95
3/4" IRON PIPE, DOWN 0.35', AT INTERSECTION OF MCALLISTER STREET AND VICTORIA AVENUE.
859.164 EL.

REVISIONS

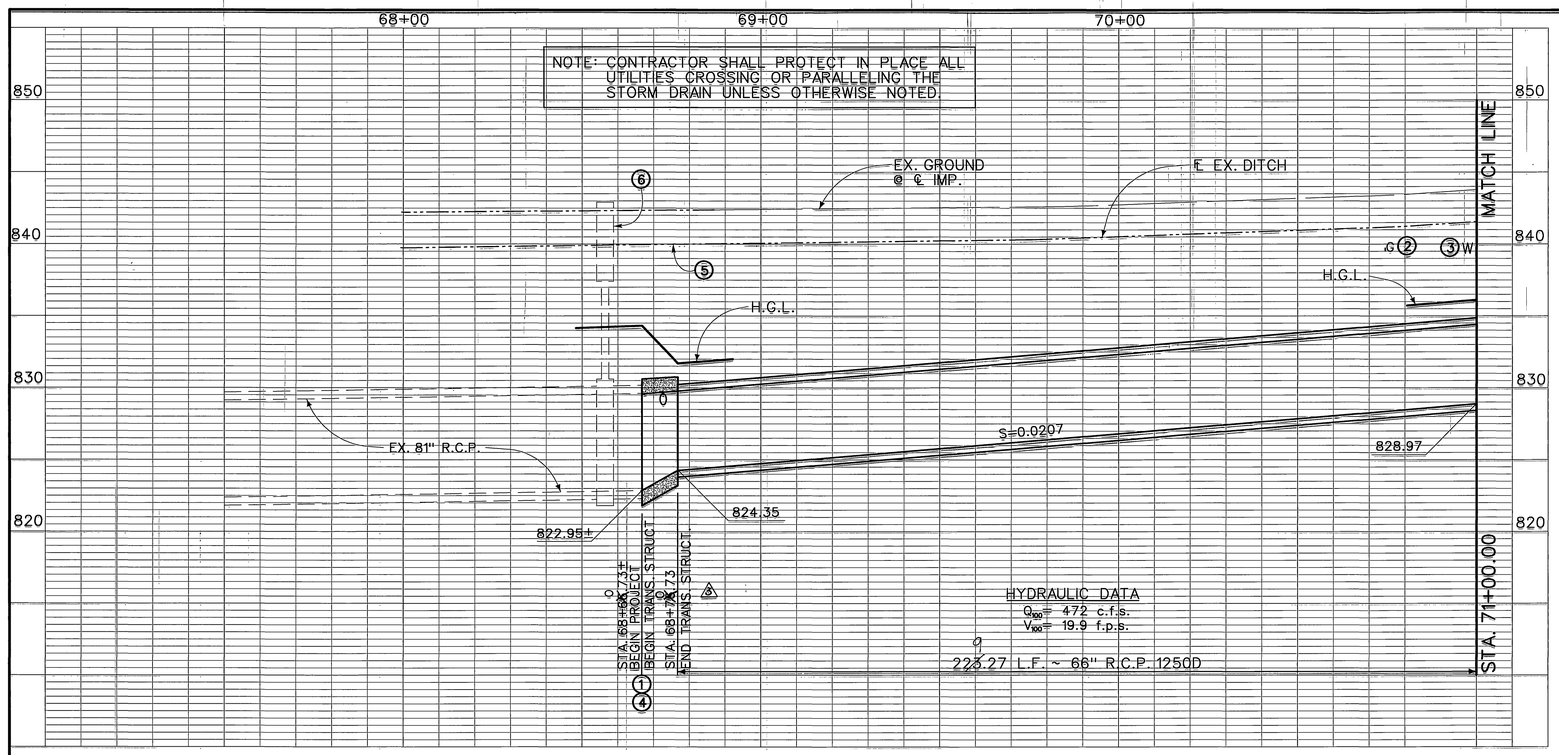
REF.	DESCRIPTION	APPR.	DATE
	AS BUILT		

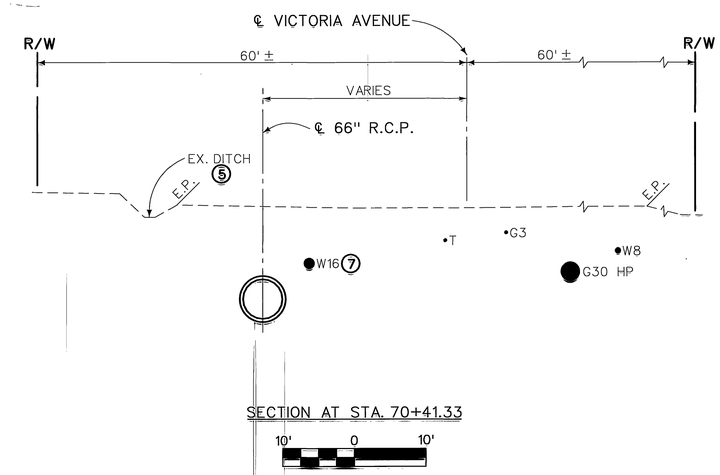
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: B.C./K.OIEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG
RECOMMENDED FOR APPROVAL BY: [signature] DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96
APPROVED BY: [signature] CHIEF ENGINEER R.E. NO. 22035 DATE: 11/8/96

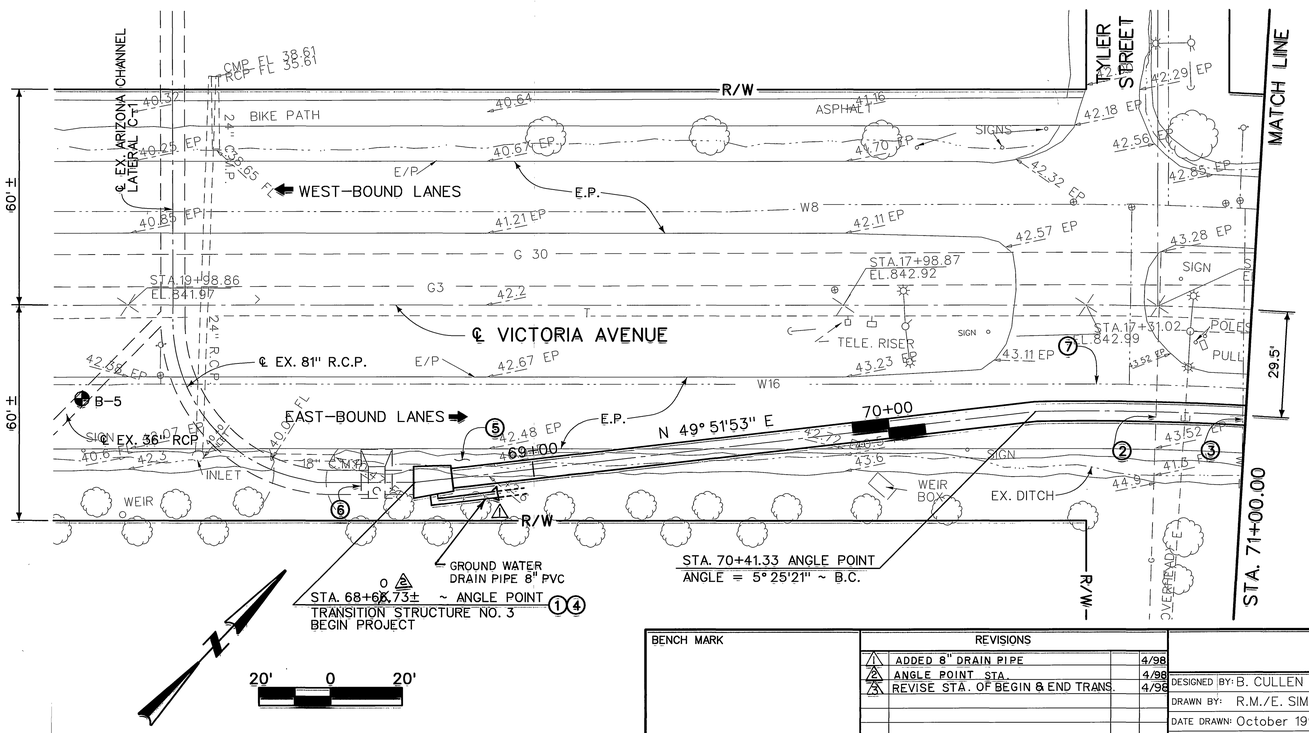
SOUTHWEST RIVERSIDE MDP LINE C-6 STAGE 1 AND LINE C-5
TITLE SHEET

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 1 OF 42

INDEXED 2-7-03 LFH







℄ 66" R.C.P. CURVE DATA

Δ = 35° 15'35"
R = 751.86'
T = 238.94'
L = 462.69'
B.C. STA. 70+41.33
P.R.C. STA. 75+04.02

NOTES:

1. CONSTRUCT TRANSITION STRUCTURE NO. 3 PER STD. TS303. A, B, C = N/A, D_1 = 81", D_2 = 66", ELEVATIONS R, S = N/A. JOIN EXISTING 81" R.C.P.
2. PROTECT IN PLACE EXISTING GAS LINE.
3. PROTECT IN PLACE EXISTING WATER SERVICE.
4. REMOVE EXISTING CONCRETE BULKHEAD.
5. RESTORE DITCH AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER.
6. PROTECT EXISTING DROP INLET.
7. PROTECT IN PLACE EXISTING 16" WATER LINE.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RANSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT
APPROVED BY: [illegible]
DATE 5/26/99

D-721

BENCH MARK	REVISIONS			
	1	ADDED 8" DRAIN PIPE		4/98
	2	ANGLE POINT STA.		4/98
	3	REVISE STA. OF BEGIN & END TRANS.		4/98
	REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: B. CULLEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

RECOMMENDED FOR APPROVAL BY: Michael D. Ranson [redacted] DESIGN ENGINEER R.E. No. 35
DATE: 11/5/96

APPROVED BY: David Zaro [redacted] CHIEF ENGINEER R.E. NO. 22035
DATE: 11/6/96

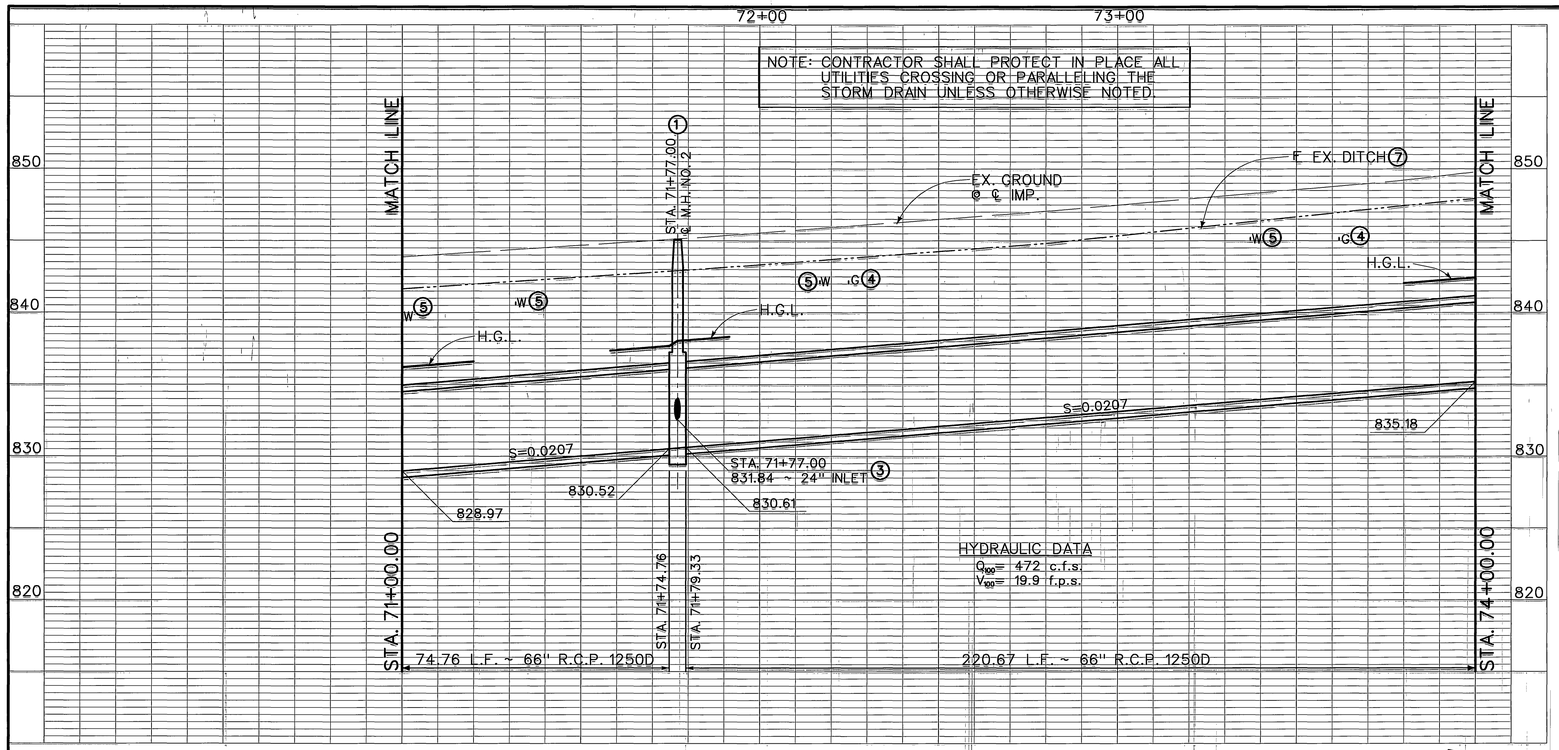
SOUTHWEST RIVERSIDE MDP LINE C-6

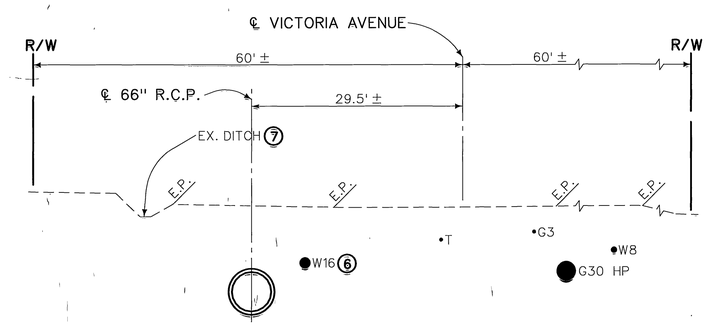
STAGE 1

STA. 68+66.73 TO STA. 71+00.00

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 2 OF 42

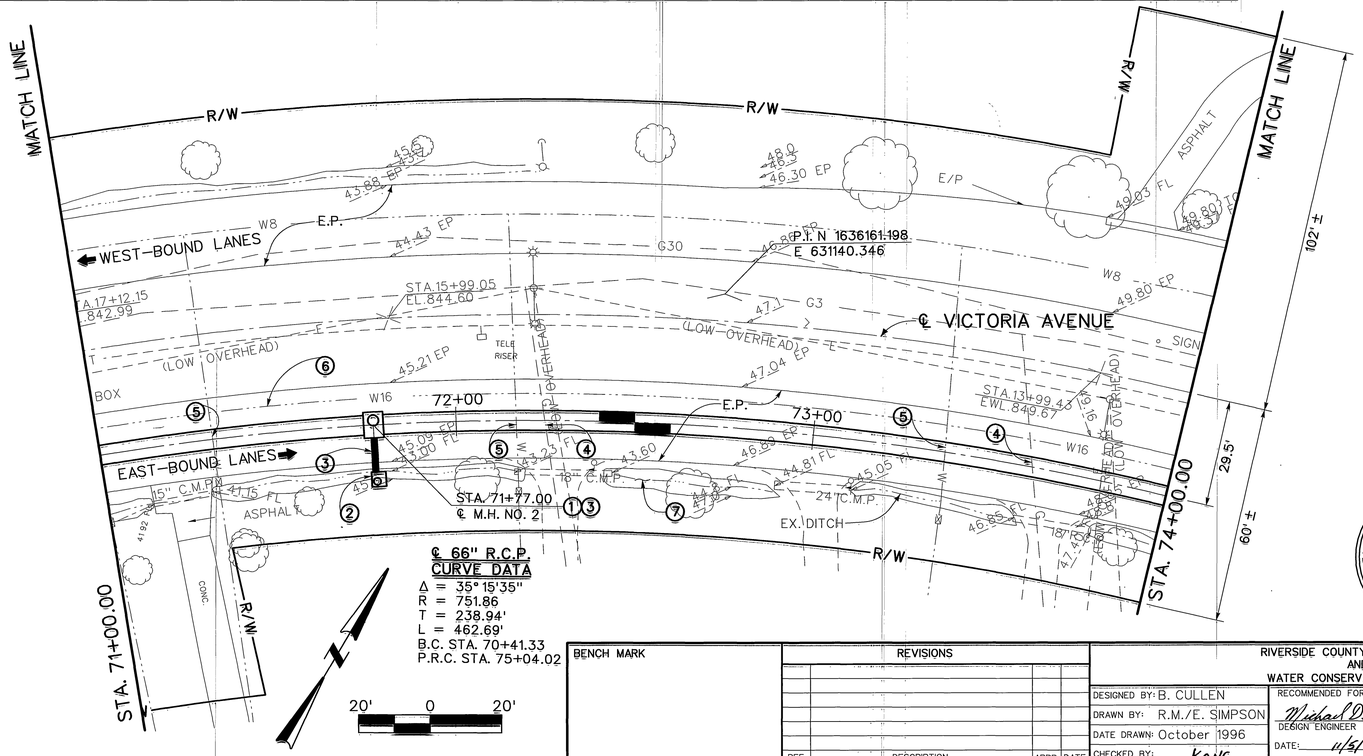
INDEXED 2-7-03 GH





SECTION AT STA. 72+50.00

10' 0 10'



℄ 66" R.C.P.
CURVE DATA

Δ = 35°15'35"
R = 751.86
T = 238.94'
L = 462.69'
B.C. STA. 70+41.33
P.R.C. STA. 75+04.02

NOTES:

1. CONSTRUCT MANHOLE NO. 2 PER STD. MH252. A = 90°
2. CONSTRUCT CONCRETE DROP INLET WITH 2 OPENINGS PER STD. CB110, H=14", V=5.0±. SET TOP OF INLET 6" BELOW ADJACENT EDGE OF PAVEMENT.
3. INSTALL 24" R.C.P. INLET PER DETAILS SHEET 10.
4. PROTECT IN PLACE EXISTING GAS LINE.
5. PROTECT IN PLACE EXISTING WATER SERVICE.
6. PROTECT IN PLACE EXISTING 16" WATER LINE.
7. RESTORE EXISTING DITCH AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER.

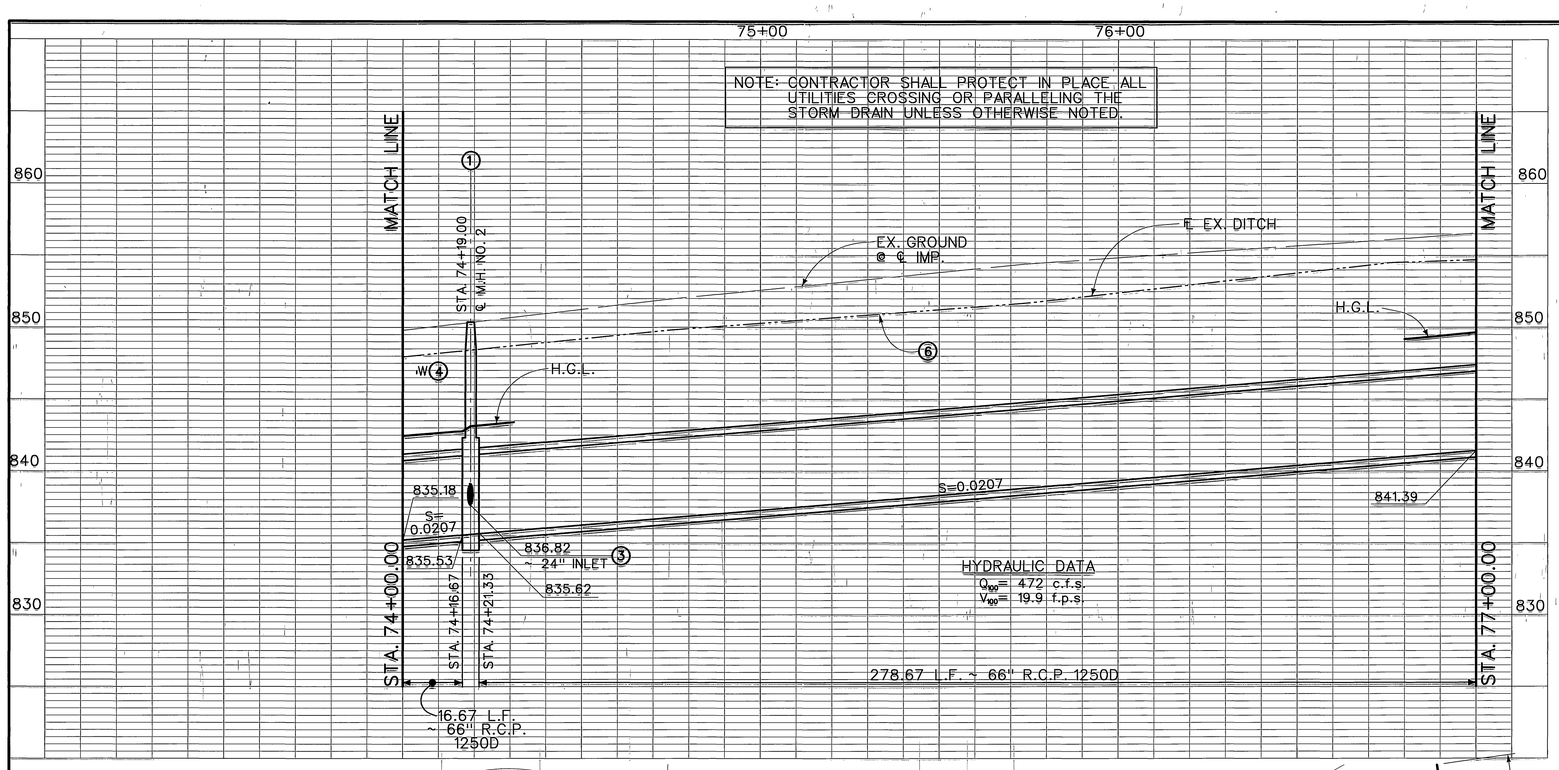
REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

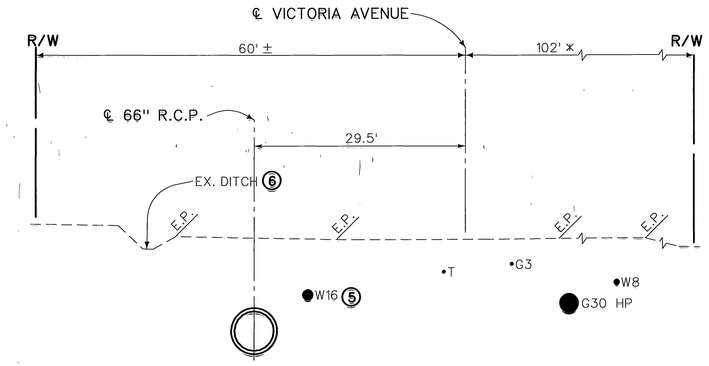
AS BUILT
APPROVED BY: [illegible]
DATE 5/26/99

D-721

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		SOUTHWEST RIVERSIDE MDP LINE C-6 STAGE 1 STA. 71+00.00 TO STA. 74+00.00	PROJECT NO. 1-0-0174
	REF.	DESCRIPTION	APPR.	DATE	DESIGNED BY: B. CULLEN	RECOMMENDED FOR APPROVAL BY: / APPROVED BY:		DRAWING NO. 1-564
					DRAWN BY: R.M./E. SIMPSON	Michael D. Rawson / David Zigler		SHEET NO. 3 OF 42
					DATE DRAWN: October 1996	DESIGN ENGINEER R.E. No. [redacted] / CHIEF ENGINEER R.E. NO. 22035		
					CHECKED BY: KONG	DATE: 11/5/96 [redacted] DATE: 11/6/96		

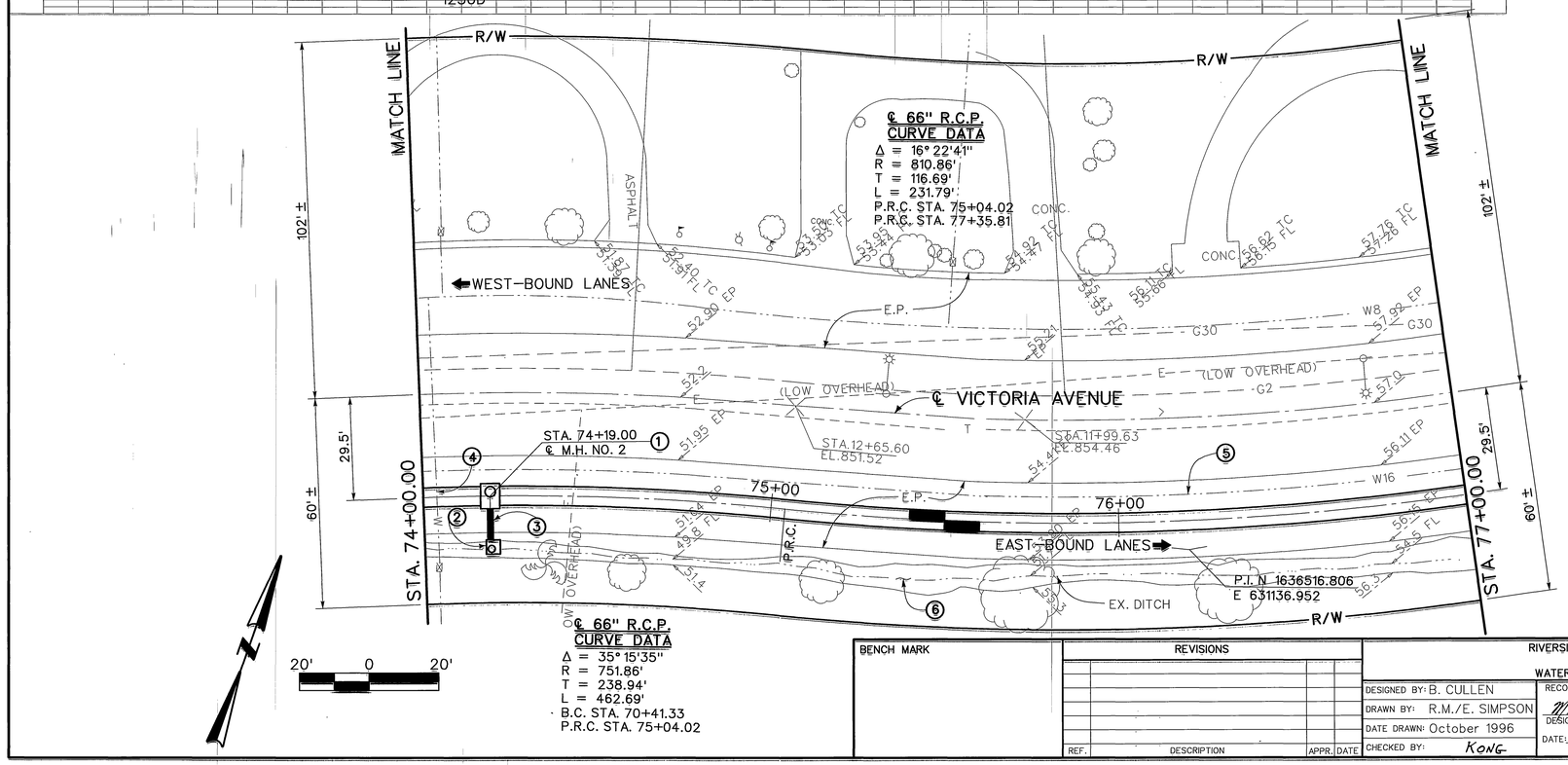
INDEXED 2-7-03 [illegible]





SECTION AT STA. 75+50.00

10' 0 10'



NOTES:

1. CONSTRUCT MANHOLE NO. 2 PER STD. MH252. A = 90°
2. CONSTRUCT CONCRETE DROP INLET WITH 2 OPENINGS PER STD. CB110, H=14", V=5.0± SET TOP OF INLET ELEVATION 6" BELOW ADJACENT EDGE OF PAVEMENT.
3. INSTALL 24" R.C.P. INLET PER DETAILS SHEET 10.
4. PROTECT IN PLACE EXISTING WATER SERVICE.
5. PROTECT IN PLACE EXISTING 16" WATER LINE.
6. RESTORE EXISTING DITCH AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RANSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT

APPROVED BY: [signature]

DATE 5/26/99

D-721

BENCH MARK	REVISIONS			
	REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: B. CULLEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

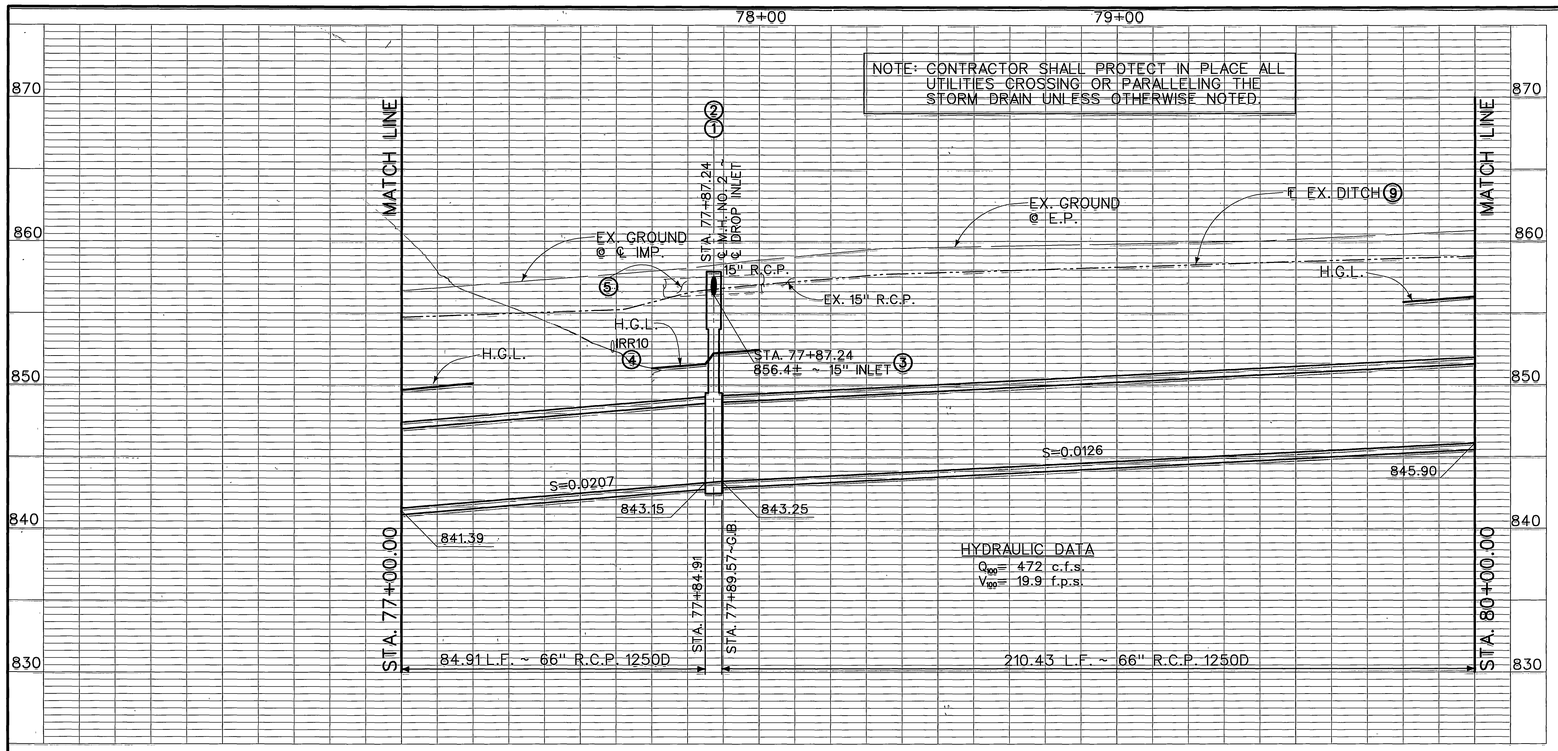
RECOMMENDED FOR APPROVAL BY: Michael D. Ranson
DESIGN ENGINEER R.E. No. 35332
DATE: 11/5/96

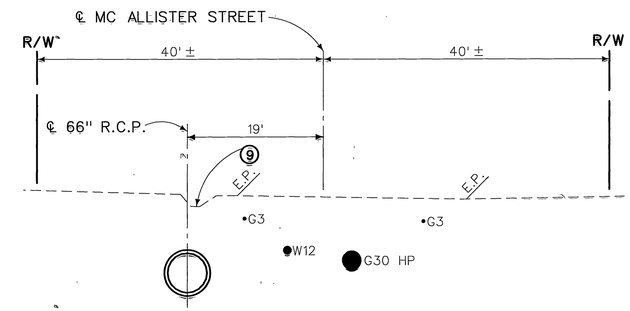
APPROVED BY: [signature]
CHIEF ENGINEER R.E. No. 22035
DATE: 11/6/1996

SOUTHWEST RIVERSIDE MDP
LINE C-6
STAGE 1
STA. 74+00.00 TO STA. 77+00.00

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 4 OF 42

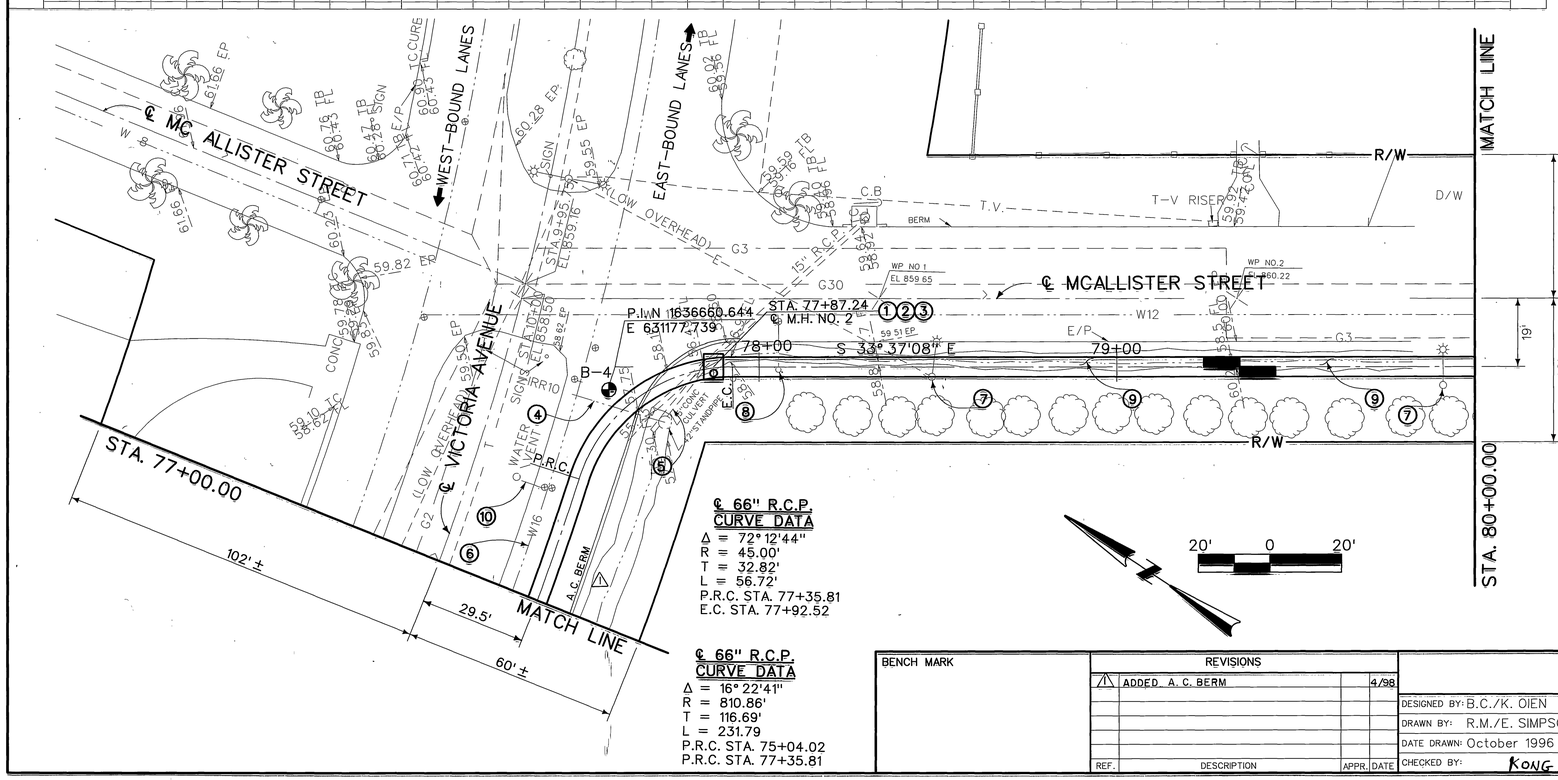
INDEXED 2-7-03 GH





SECTION AT STA. 79+50.00

10' 0 10'



NOTES:

1. CONSTRUCT MANHOLE NO. 2 PER STD. MH252.
2. CONSTRUCT CONCRETE DROP INLET OVER MANHOLE RISER PER DETAILS SHEET 9.
3. CONNECT EXISTING 15" R.C.P. TO CONCRETE DROP INLET.
4. EXISTING 10" IRRIGATION LINE AND STAND PIPE TO BE PROTECTED IN PLACE.
5. REMOVE INTERFERING PORTION OF EXISTING CULVERT.
6. PROTECT IN PLACE EXISTING 16" WATER LINE.
7. EXISTING STREET LIGHT TO BE RELOCATED BY OTHERS.
8. EXISTING FIRE HYDRANT TO BE RELOCATED BY OTHERS.
9. RESTORE EXISTING ROAD-SIDE DITCH AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER.
10. PROTECT IN PLACE EXISTING WATERLINE BLOW-OFF.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RANSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT
APPROVED BY: CL
DATE 5/26/99
D-721

℄ 66" R.C.P. CURVE DATA
Δ = 72° 12'44"
R = 45.00'
T = 32.82'
L = 56.72'
P.R.C. STA. 77+35.81
E.C. STA. 77+92.52

℄ 66" R.C.P. CURVE DATA
Δ = 16° 22'41"
R = 810.86'
T = 116.69'
L = 231.79
P.R.C. STA. 75+04.02
P.R.C. STA. 77+35.81

BENCH MARK	REVISIONS			
	1	ADDED A. C. BERM		4/98
	REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: B.C./K. OIEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

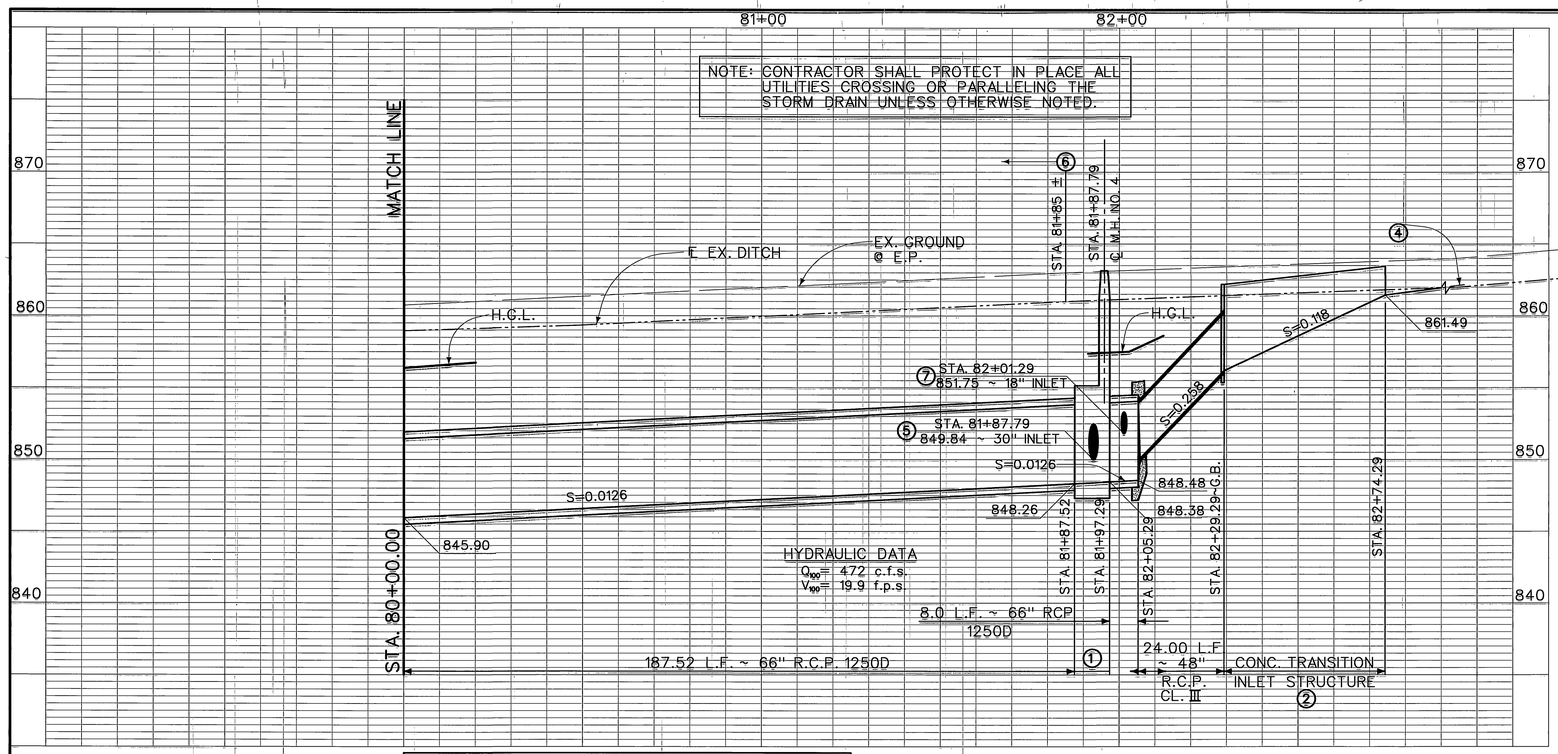
RECOMMENDED FOR APPROVAL BY: Michael D. Ranson
DESIGN ENGINEER R.C.E. No. 35[redacted]
DATE: 11/5/96

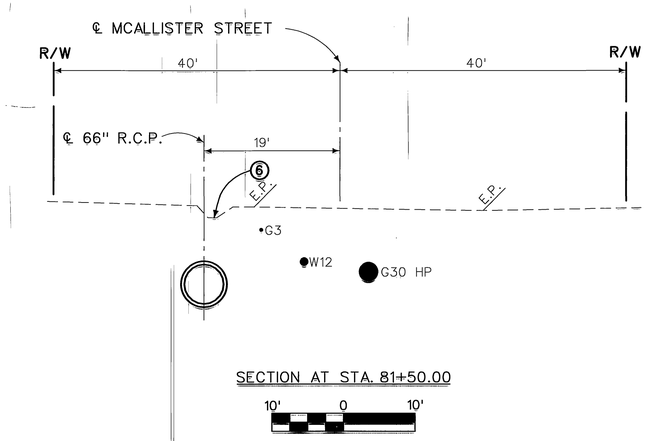
APPROVED BY: [redacted]
CHIEF ENGINEER R.C.E. NO. 22035
DATE: 11/6/96

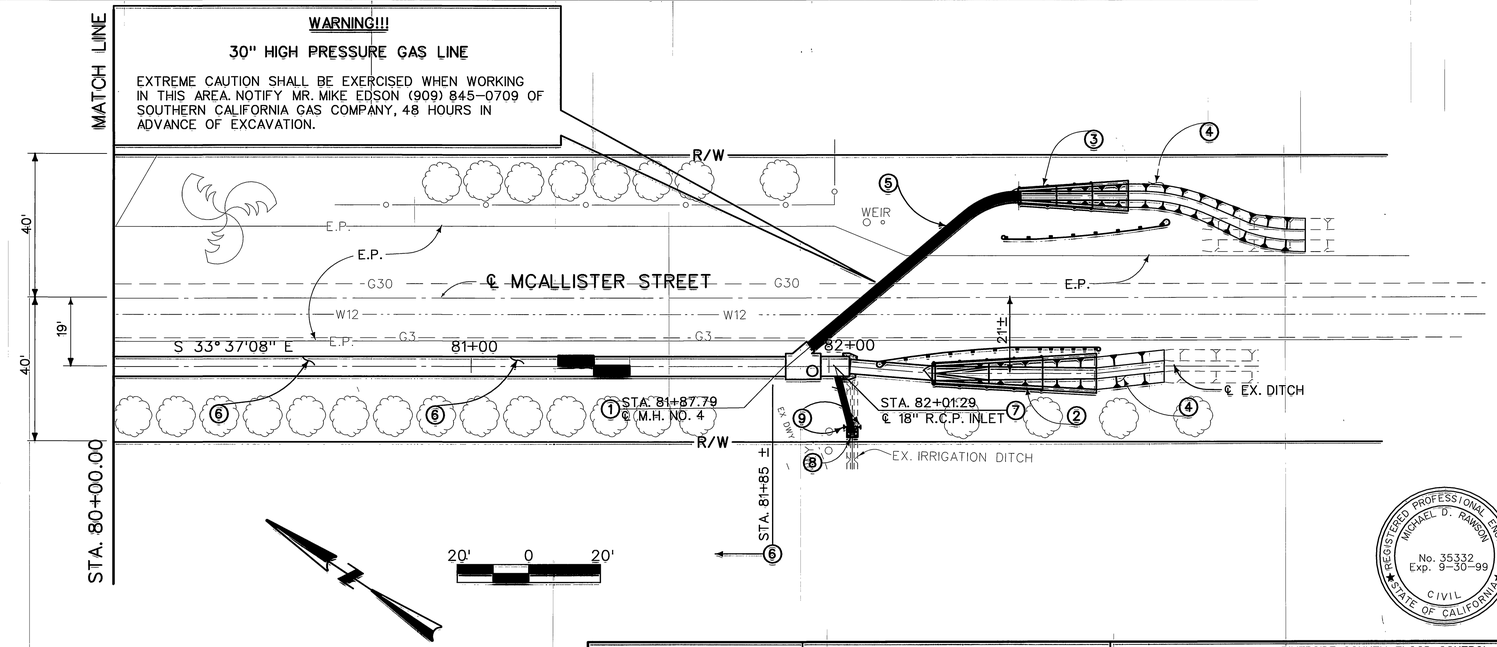
SOUTHWEST RIVERSIDE MDP
LINE C-6
STAGE 1
STA. 77+00.00 TO STA. 80+00.00

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 5 OF 42

INDEXED 2-7-03 LH







NOTES:

1. CONSTRUCT MANHOLE NO. 4 PER STD. MH254. A = 40°, B = 30", C = 8.9', D_1 & D_2 = 66", L = 10.6', EL. R = 849.94, EL. S = 849.84.
2. CONSTRUCT 48" INLET STRUCTURE PER DETAILS SHEET 7.
3. CONSTRUCT 30" INLET STRUCTURE PER DETAILS SHEET 8.
4. REGRADE EXISTING DRAINAGE DITCH TO DRAIN TO INLET.
5. INSTALL 30" R.C.P. INLET PER DETAILS SHEET 8.
6. RESTORE EXISTING ROADSIDE DITCH AFTER CONSTRUCTION AS DIRECTED BY ENGINEER.
7. INSTALL 18" R.C.P. INLET PER DETAILS SHEET 10.
8. PLACE 4" THICK CONCRETE APRON AROUND INLET TO 18" CONNECTOR PIPE AS DIRECTED BY ENGINEER.
9. INSTALL 2 TYPE K-2 OBJECT MARKER PER CALTRANS STD. A73A.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

D-721

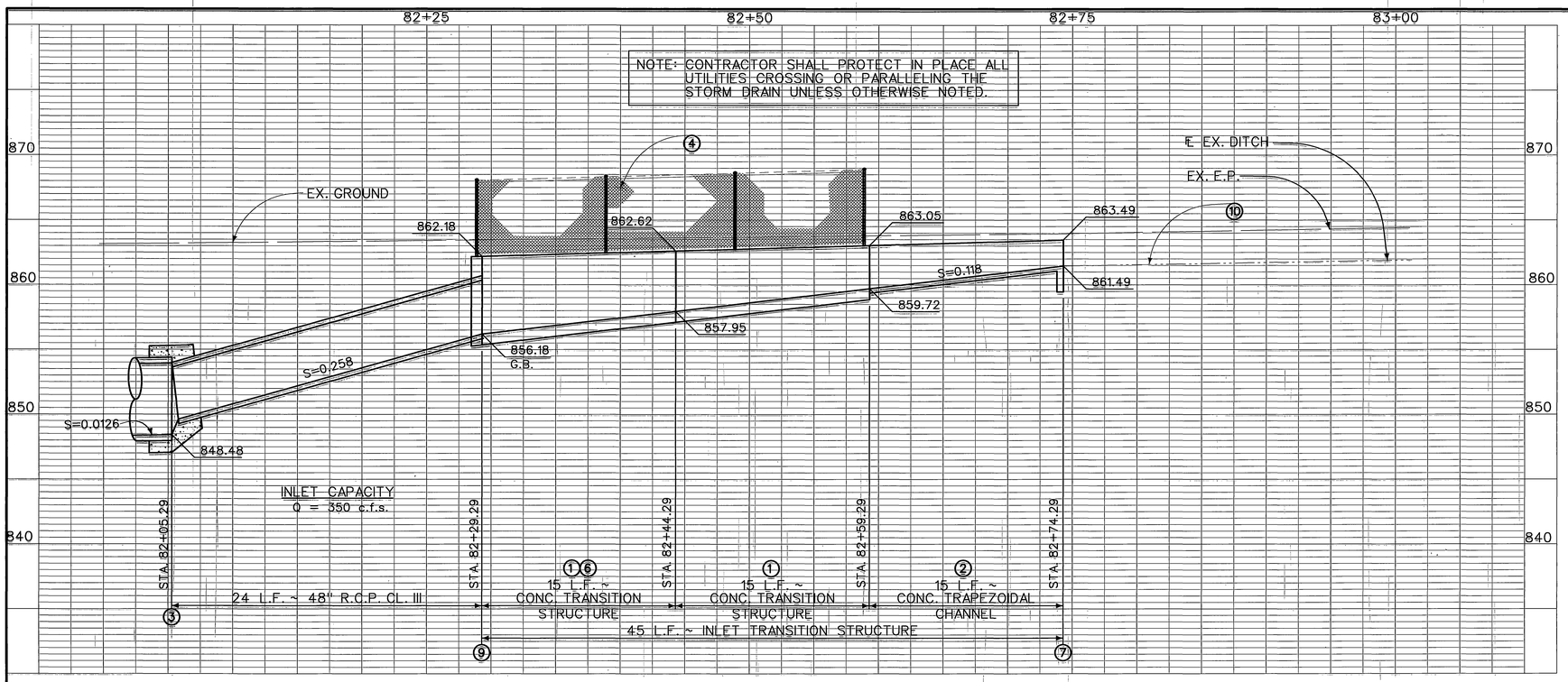
AS BUILT

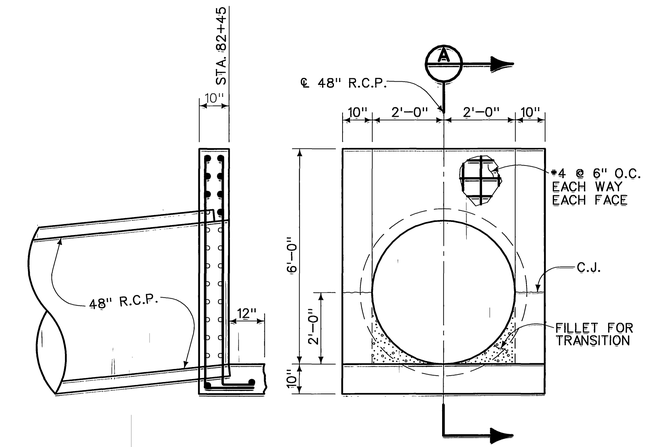
APPROVED BY: [illegible]

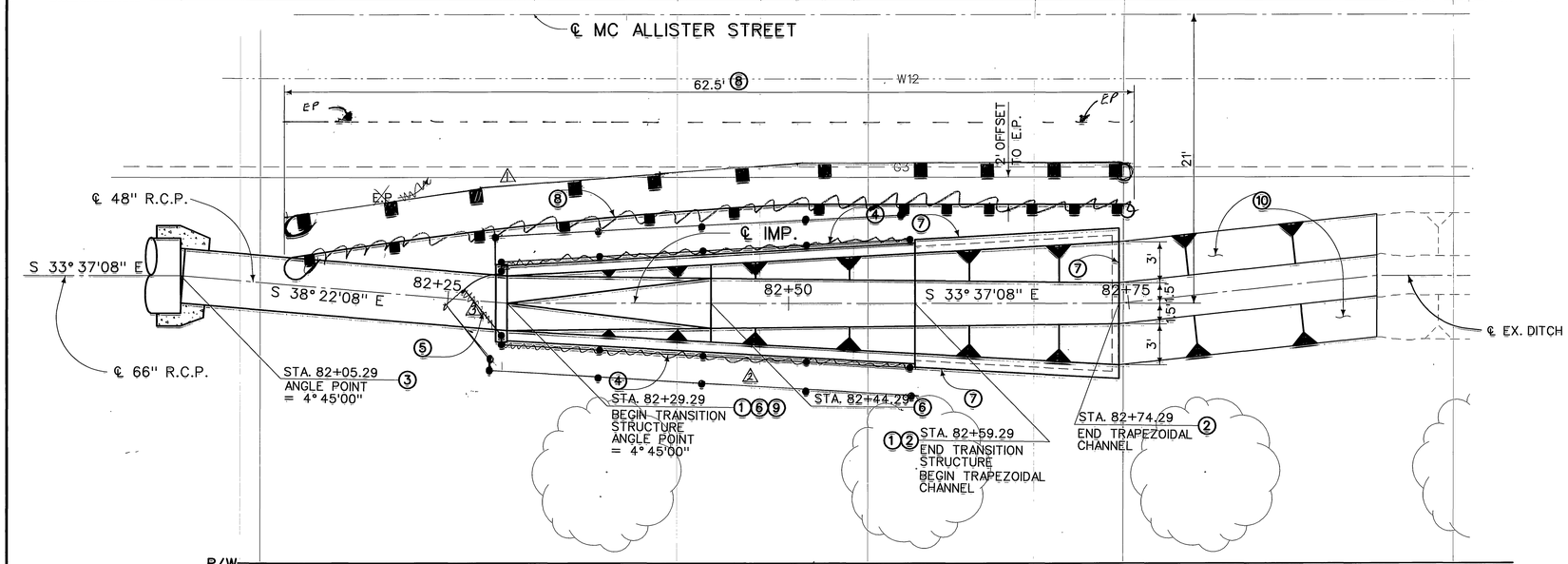
DATE 5/26/99

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		SOUTHWEST RIVERSIDE MDP LINE C-6 STAGE 1 STA. 80+00.00 TO STA. 82+90.00	PROJECT NO. 1-0-0174
					DESIGNED BY: B.C./K. OIEN	RECOMMENDED FOR APPROVAL BY:	APPROVED BY:	DRAWING NO. 1-564
					DRAWN BY: R.M./E. SIMPSON	DESIGN ENGINEER R.E. No. 35	CHIEF ENGINEER R.E. NO. 22035	
					DATE DRAWN: October 1996	DATE: 11/5/96	DATE: 11/6/96	SHEET NO. 6 OF 42
	REF.	DESCRIPTION	APPR.	DATE	CHECKED BY: KONG			

INDEXED 2-7-03 LFH







NOTES

1. CONSTRUCT INLET STRUCTURE PER STD. CH329, SEE SHEET 31, AND PER DETAILS THIS SHEET.
2. CONSTRUCT TRAPEZOIDAL CHANNEL PER STD. CH326. d VARIES, h VARIES, SIDE SLOPE VARIES.
3. CONSTRUCT CONCRETE COLLAR PER STD. M803.
4. △ INSTALL 6 FOOT CHAIN LINK FENCE PER STD. M801.
5. △ INSTALL 4 FOOT SINGLE GATE PER STD. M801.
6. TRANSITION INVERT FROM LEVEL AT STA. 82+44.29 TO MATCH 48" RCP AT STA. 82+29.29.
7. CONSTRUCT 2 FOOT CUT-OFF WALL PER STD. CH326.
8. △ INSTALL WOOD POST METAL BEAM GUARD RAILING, TYPE 8 FLARE, PER CALTRANS STANDARD LISTED ON SHEET 1.
9. CONSTRUCT HEADWALL PER DETAILS THIS SHEET.
10. GRADE EXISTING DITCH TO DRAIN TO INLET.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

D-721

AS BUILT

APPROVED BY: [illegible]

DATE 5/29/99

BENCH MARK	REVISIONS			
	△1 MOVED GUARD RAILING			
	△2 MOVED FENCE			
	△3 MOVED GATE			
	REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: B. CULLEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

RECOMMENDED FOR APPROVAL BY: Michael D. Rawson
DESIGN ENGINEER R.E. No. 35332
DATE: 11/5/96

APPROVED BY: [illegible]
CHIEF ENGINEER R.E. No. 22035
DATE: 11/6/96

SOUTHWEST RIVERSIDE MDP LINE C-6 STAGE 1

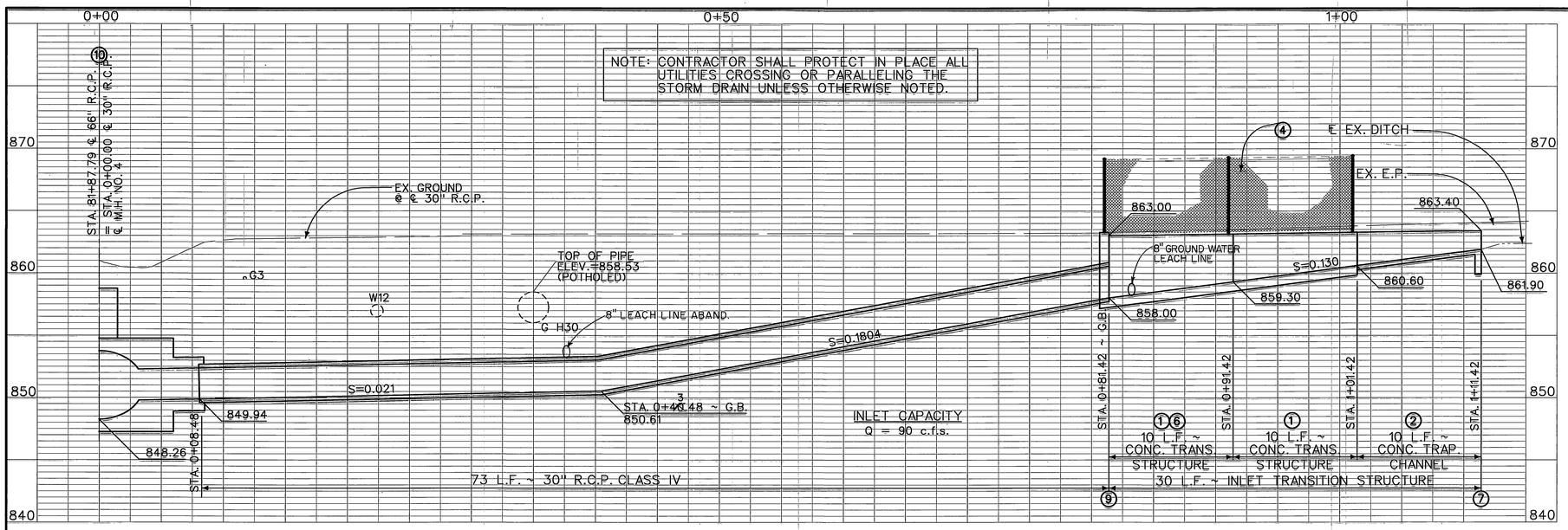
48" INLET STRUCTURE

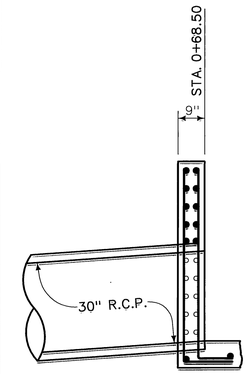
PROJECT NO. 1-0-0174

DRAWING NO. 1-564

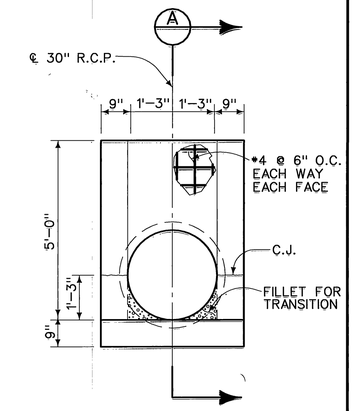
SHEET NO. 7 OF 42

INDEXED 2-7-03 LH





SECTION A



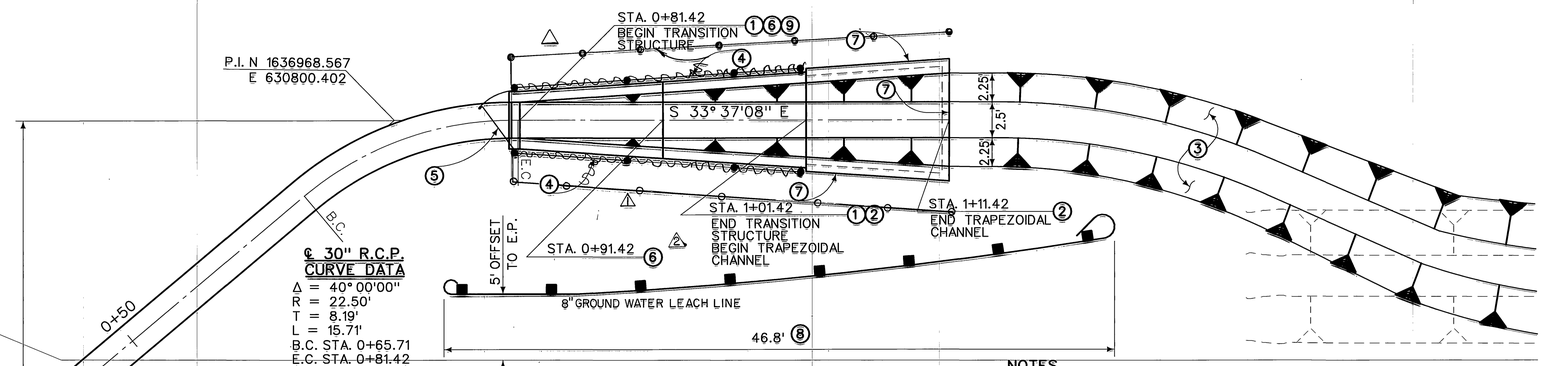
SECTION AT STA. 0+81.42

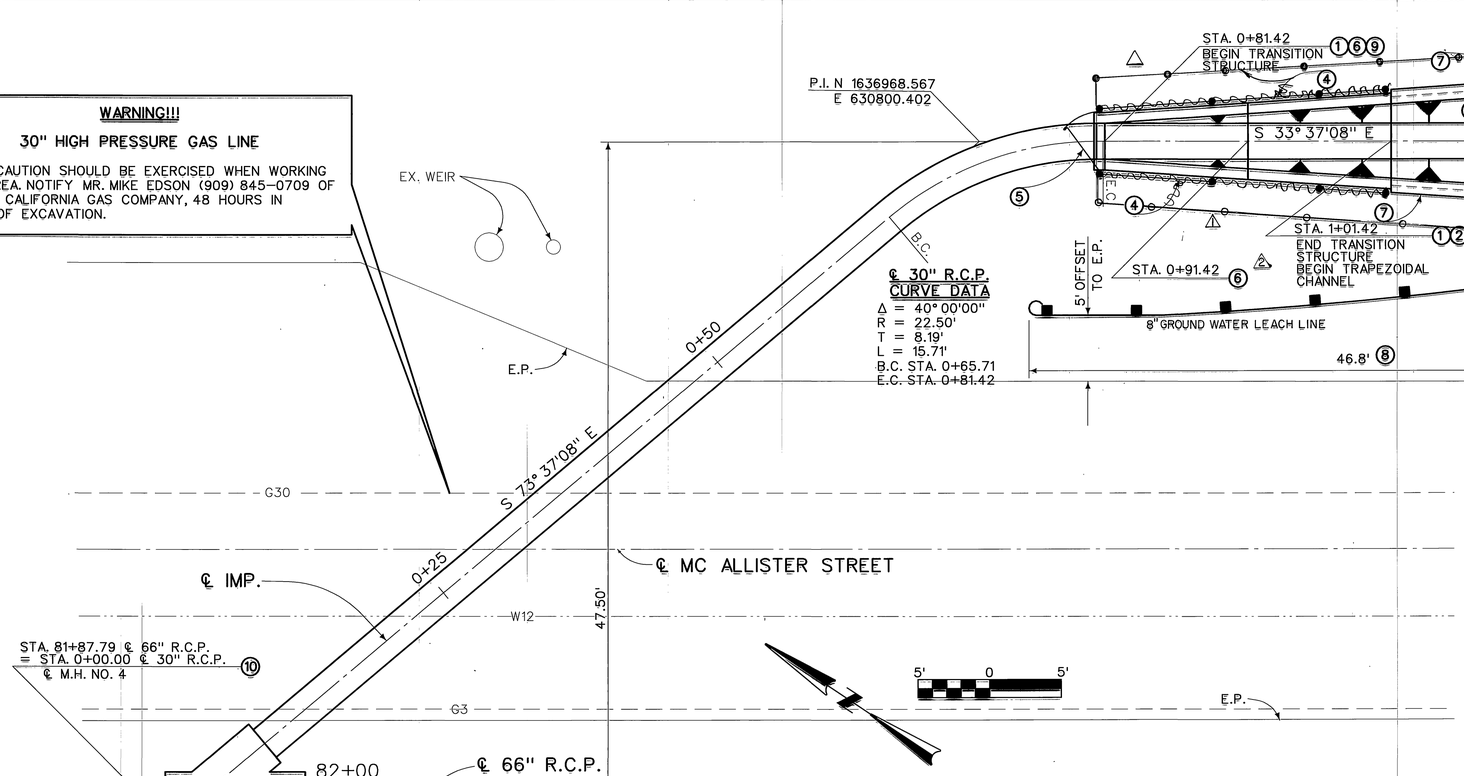
2' 0 2'

WARNING!!!

30" HIGH PRESSURE GAS LINE

EXTREME CAUTION SHOULD BE EXERCISED WHEN WORKING IN THIS AREA. NOTIFY MR. MIKE EDSON (909) 845-0709 OF SOUTHERN CALIFORNIA GAS COMPANY, 48 HOURS IN ADVANCE OF EXCAVATION.





℄ 30" R.C.P. CURVE DATA

Δ = 40° 00'00"
R = 22.50'
T = 8.19'
L = 15.71'
B.C. STA. 0+65.71
E.C. STA. 0+81.42

NOTES

1. CONSTRUCT INLET STRUCTURE PER STD. CH329 AND PER DETAILS THIS SHEET.
2. CONSTRUCT TRAPEZOIDAL CHANNEL PER STD. CH326. d VARIES, h VARIES, SIDE SLOPE VARIES.
3. GRADE EXISTING DITCH TO DRAIN TO INLET.
4. INSTALL 6 FOOT CHAIN LINK FENCE PER STD. M801.
5. INSTALL 4 FOOT SINGLE GATE PER STD. M801.
6. TRANSITION INVERT FROM LEVEL AT STA. 0+91.42 TO MATCH 30" R.C.P. AT STA. 0+81.42.
7. CONSTRUCT 2 FOOT CUT-OFF WALL PER STD. CH326.
8. INSTALL WOOD POST METAL BEAM GUARD RAILING, TYPE 8 FLARE, PER CALTRANS STANDARD LISTED ON SHEET 1
9. CONSTRUCT HEADWALL PER DETAILS THIS SHEET.
10. FOR M.H. NO. 4 DETAILS, SEE SHEET 6.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RANSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

D-721

AS BUILT

APPROVED BY: [illegible]

DATE 5/25/99

BENCH MARK	REVISIONS			
	1	MOVED FENCE		4/98
	2	ADDED LEACH LINE		4/98
	REF.	DESCRIPTION	APPR.	DATE

DESIGNED BY: B.C./K. OIEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: Michael D. Ranson DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96

APPROVED BY: [illegible] CHIEF ENGINEER R.E. NO. 22035 DATE: 11/6/96

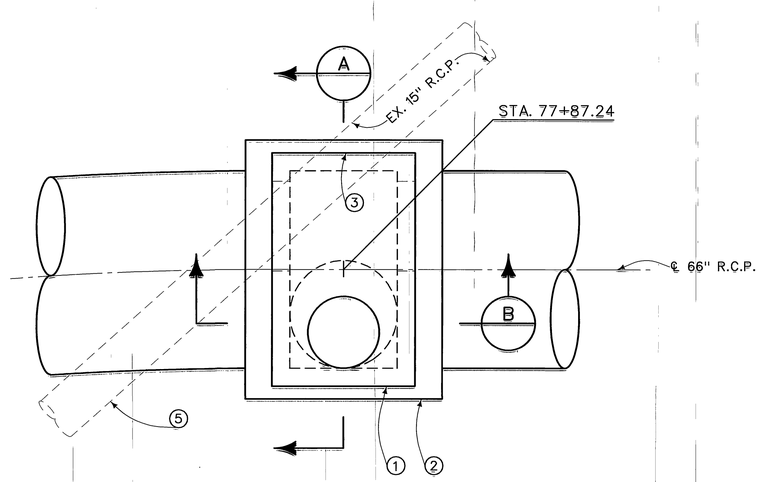
SOUTHWEST RIVERSIDE MDP LINE C-6

STAGE 1

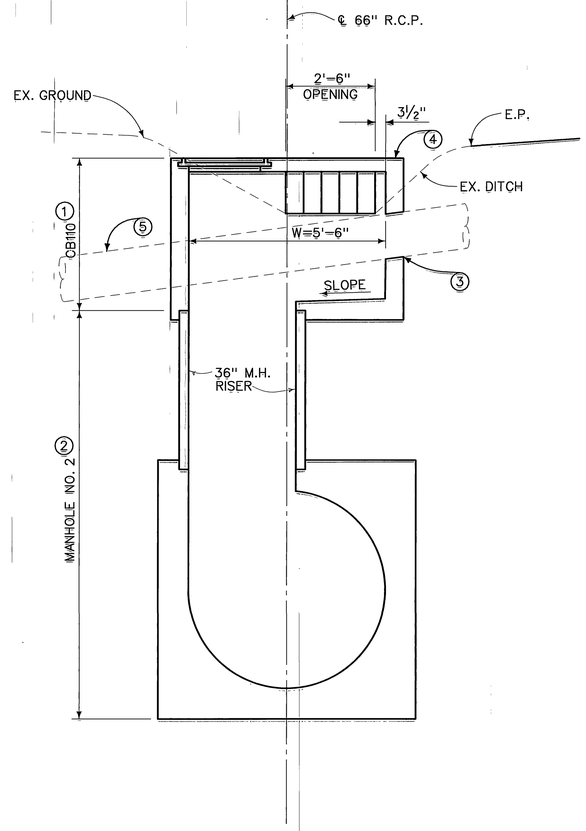
30" INLET STRUCTURE

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 8 OF 42

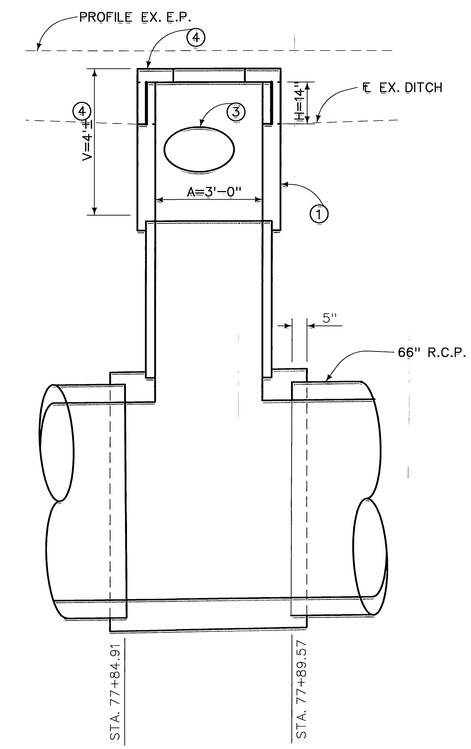
INDEXED 2-7-03 LH



CONCRETE DROP INLET
PLAN VIEW SHEET 5



SECTION A



SECTION B

2' 0 2'

NOTES:

1. CONSTRUCT CONCRETE DROP INLET WITH 2 OPENINGS PER STD. CB110. V=4'±, H=14"
2. SEE MANHOLE NO. 2 DETAILS SHEET 5.
3. CONNECT EXISTING 15" R.C.P. TO CONCRETE DROP INLET PER SPECIAL CONNECTIONS DETAIL STD. CB109.
4. SET TOP OF INLET ELEVATION 6"± BELOW ADJACENT EDGE OF PAYMENT ELEVATION.
5. REMOVE INTERFERING PORTION OF EXISTING 15" R.C.P.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

D-721
AS BUILT
APPROVED BY: CL
DATE 5/26/99

BENCH MARK	REVISIONS				
	REF.	DESCRIPTION	APPR.	DATE	

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: B. CULLEN
DRAWN BY: R.M./E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

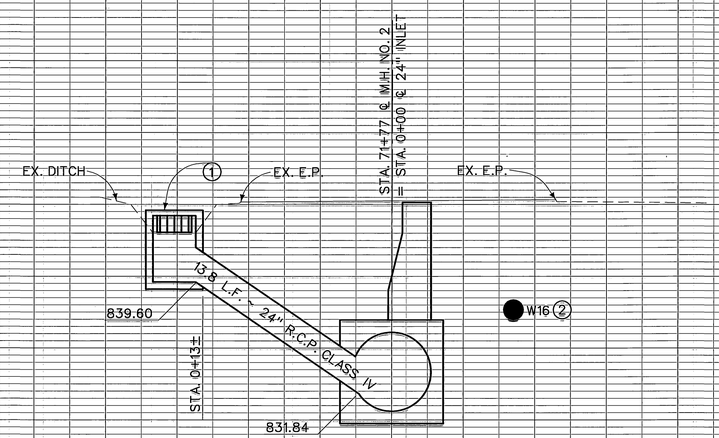
RECOMMENDED FOR APPROVAL BY: Michael D. Rawson
DESIGN ENGINEER R.E. No. 35
DATE: 11/5/96

APPROVED BY: Gerald Yoque
ENGINEER R.E. NO. 22035
DATE: 11/6/96

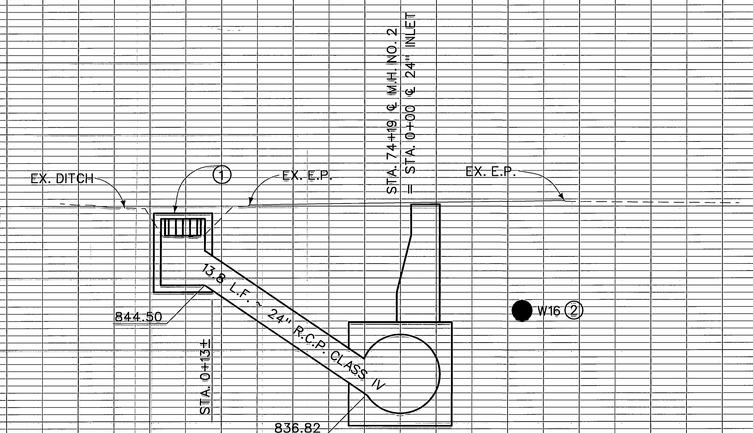
SOUTHWEST RIVERSIDE MDP
LINE C-6
STAGE 1
MOD. DROP INLET & M.H. NO. 2 DETAILS

PROJECT NO. 1-0-0174
DRAWING NO. 1-564
SHEET NO. 9 OF 42

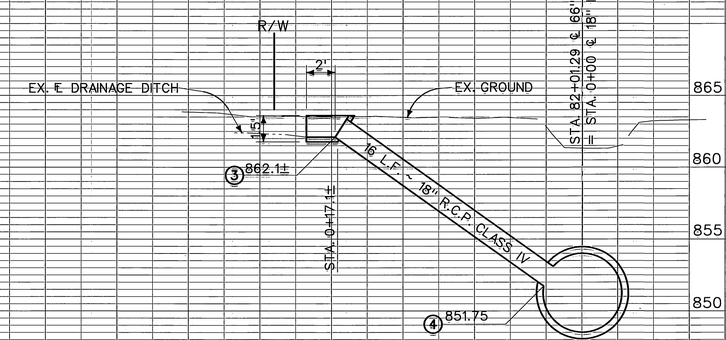
INDEXED 2-7-03 LH



STA. 71+77
PLAN VIEW SHEET #3



STA. 74+19
PLAN VIEW SHEET #4



STA. 82+01.29
PLAN VIEW SHEET #6

NOTES:

1. CONSTRUCT CONCRETE DROP INLET WITH 2 OPENINGS PER STD. CB110, H=14", V=5.0±. SET TOP OF INLET 6" BELOW ADJACENT EDGE OF PAVEMENT.
2. PROTECT IN PLACE EXISTING 16" WATERLINE.
3. CONSTRUCT 4" THICK CONCRETE APRON AROUND 18" R.C.P. INLET AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT JUNCTION STRUCTURE NO. 4 PER STD. JS229.

5' 0 5'

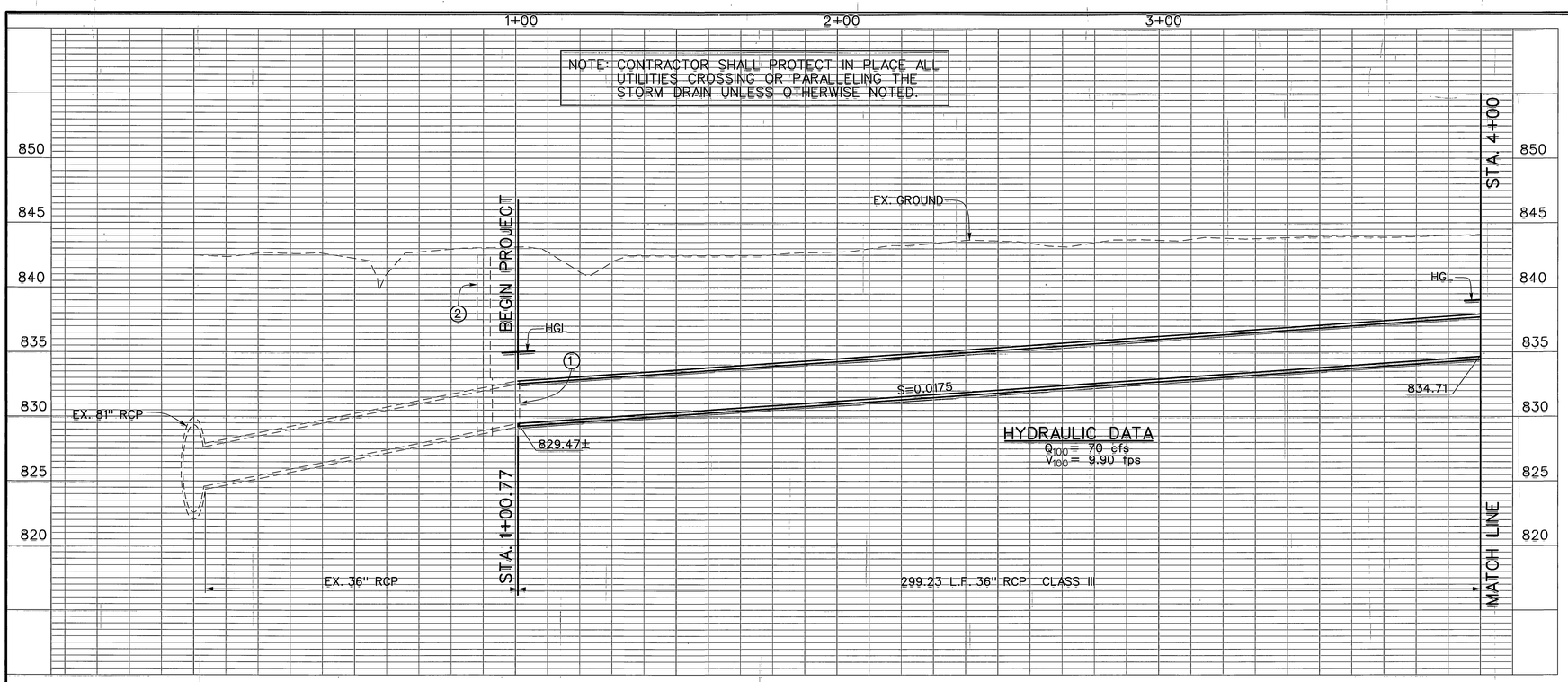
REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

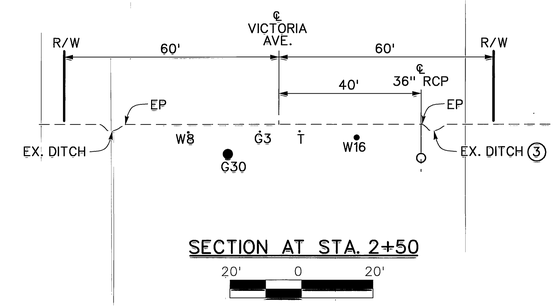
AS BUILT
APPROVED BY: [signature]
DATE 5/26/99

D-721

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		SOUTHWEST RIVERSIDE MDP LINE C-6 STAGE 1 CONNECTOR PIPE PROFILES	PROJECT NO. 1-0-0174
					DESIGNED BY: B. CULLEN	RECOMMENDED FOR APPROVAL BY: / APPROVED BY:		DRAWING NO. 1-564
					DRAWN BY: R.M./E. SIMPSON	DESIGN ENGINEER R.E. No. 35 / F ENGINEER R.E. NO. 22035		SHEET NO. 10 OF 42
					DATE DRAWN: October 1996	DATE: 11/5/96 / 11/6/96		
	REF.	DESCRIPTION	APPR.	DATE	CHECKED BY: KONG			

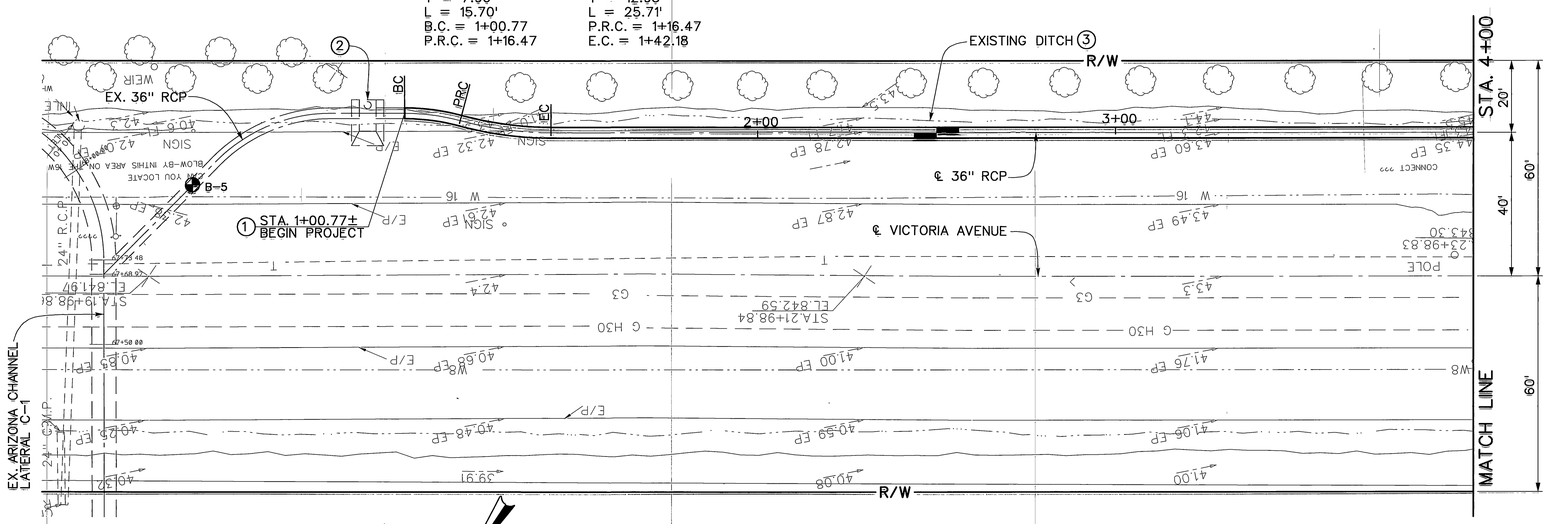
INDEXED 2-7-03 LH





℄ 36" RCP
CURVE DATA
Δ = 14° 59'33"
R = 60.00'
T = 7.90'
L = 15.70'
B.C. = 1+00.77
P.R.C. = 1+16.47

℄ 36" RCP
CURVE DATA
Δ = 14° 59'35"
R = 98.26'
T = 12.93'
L = 25.71'
P.R.C. = 1+16.47
E.C. = 1+42.18



NOTES

1. REMOVE AND SALVAGE EXISTING CONCRETE BULKHEAD. TO BE USED AT STA. 1+00.65 AS SHOWN ON SHEET 13
2. PROTECT EXISTING DROP INLET
3. RESTORE ROADSIDE DITCH AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT
APPROVED BY: D-72.1
DATE 5/29/99

BENCH MARK	REVISIONS				
	REF.	DESCRIPTION	APPR.	DATE	

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: K. OIEN
DRAWN BY: E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

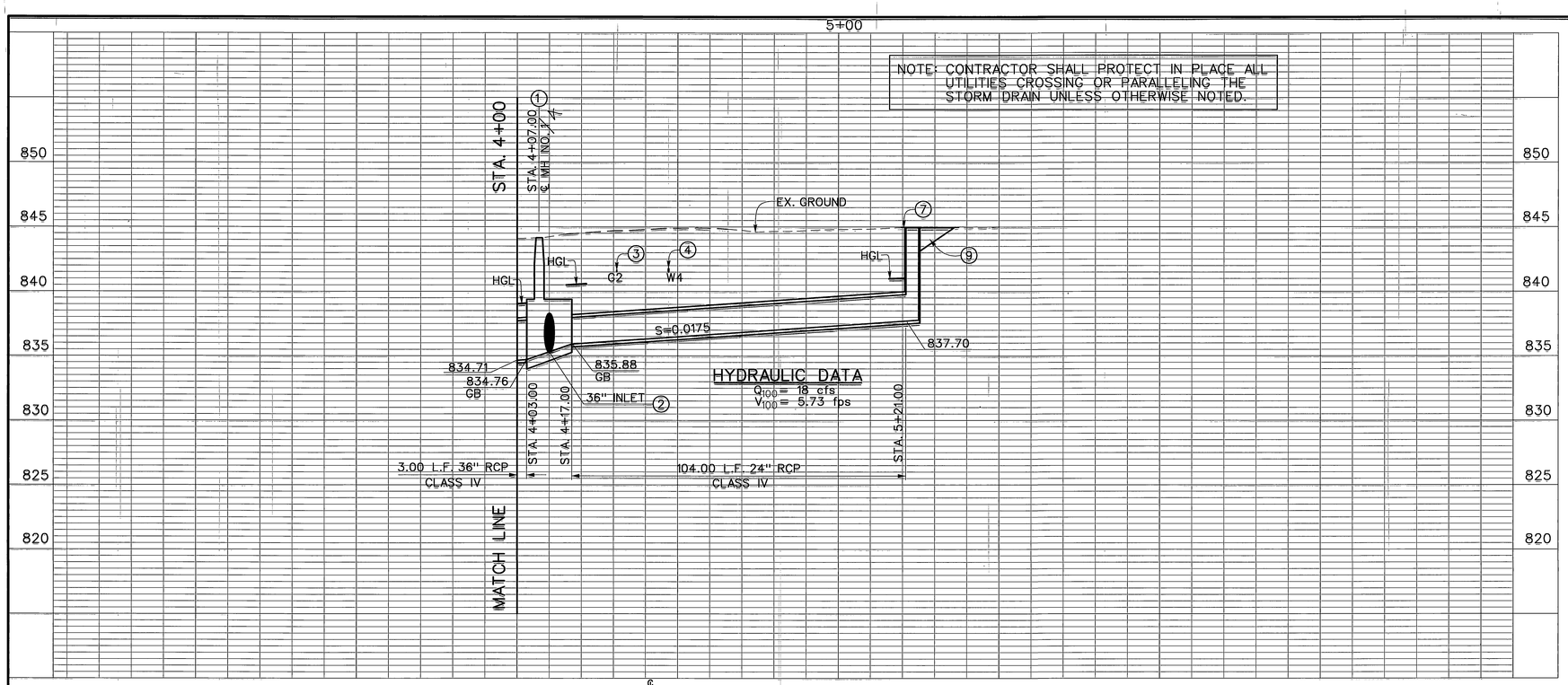
RECOMMENDED FOR APPROVAL BY: Michael D. Rawson — DESIGN ENGINEER R.E. No. 35
APPROVED BY: David Zapien — CHIEF ENGINEER R.E. No. 22035
DATE: 11/5/96 11/6/96

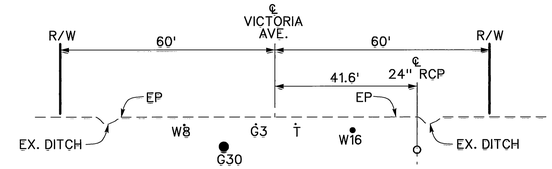
SOUTHWEST RIVERSIDE MDP LINE C-5

STA. 1+00.77 TO STA. 4+00

PROJECT NO. 1-0-0173
DRAWING NO. 1-564
SHEET NO. 11 OF 42

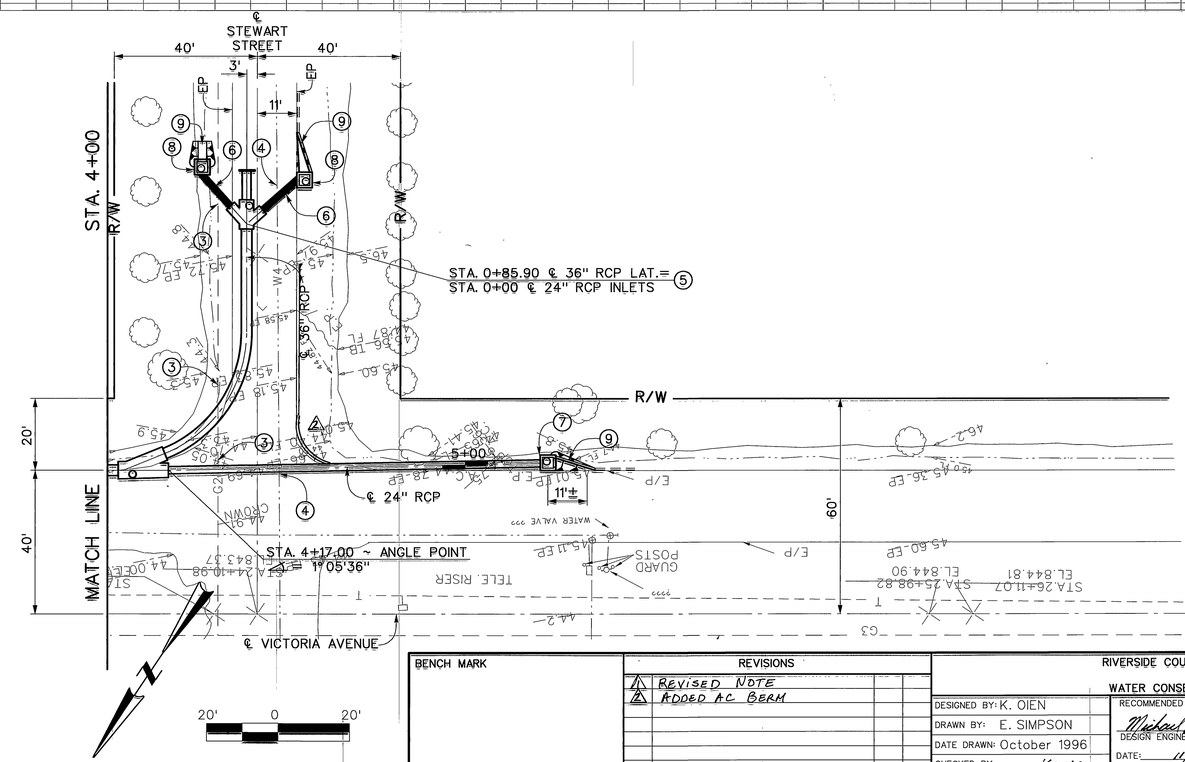
INDEXED 2-7-03 LH





SECTION AT STA. 5+00

20' 0 20'



NOTES

1. CONSTRUCT MANHOLE NO. ~~1~~ 4 PER STD. MH251 ~~1~~ 4 AND DETAILS ON SHEET 13. L=14.00', D_2=36", D_1=24".
2. INSTALL 36" RCP INLET PER DETAILS ON SHEET 13.
3. PROTECT IN PLACE EXISTING 2" GAS LINE.
4. PROTECT IN PLACE EXISTING 4" WATER LINE.
5. CONSTRUCT MANHOLE NO. 1 PER STD. MH251 AND DETAILS ON SHEET 13.
6. INSTALL 24" RCP INLET PER DETAILS ON SHEET 13.
7. CONSTRUCT CONCRETE DROP INLET PER STD. CB110 H=18", V=7.3'±. SET TOP OF INLET TO MATCH TOP OF EXISTING AC BERM.
8. CONSTRUCT CONCRETE DROP INLET PER STD. CB110 AND DETAILS ON SHEET 13.
9. CONSTRUCT 2" THICK AC APRON AROUND THE DROP INLET AS DIRECTED BY THE ENGINEER.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT

APPROVED BY: [signature]

DATE 3/22/99

D-721

BENCH MARK	REVISIONS			
	1 REVISED NOTE			
	2 ADDED AC BERM			
	REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: K. OIEN
DRAWN BY: E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

RECOMMENDED FOR APPROVAL BY: [signature] DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96

APPROVED BY: [signature] CHIEF ENGINEER R.E. No. 22035 DATE: 11/6/96

SOUTHWEST RIVERSIDE MDP LINE C-5

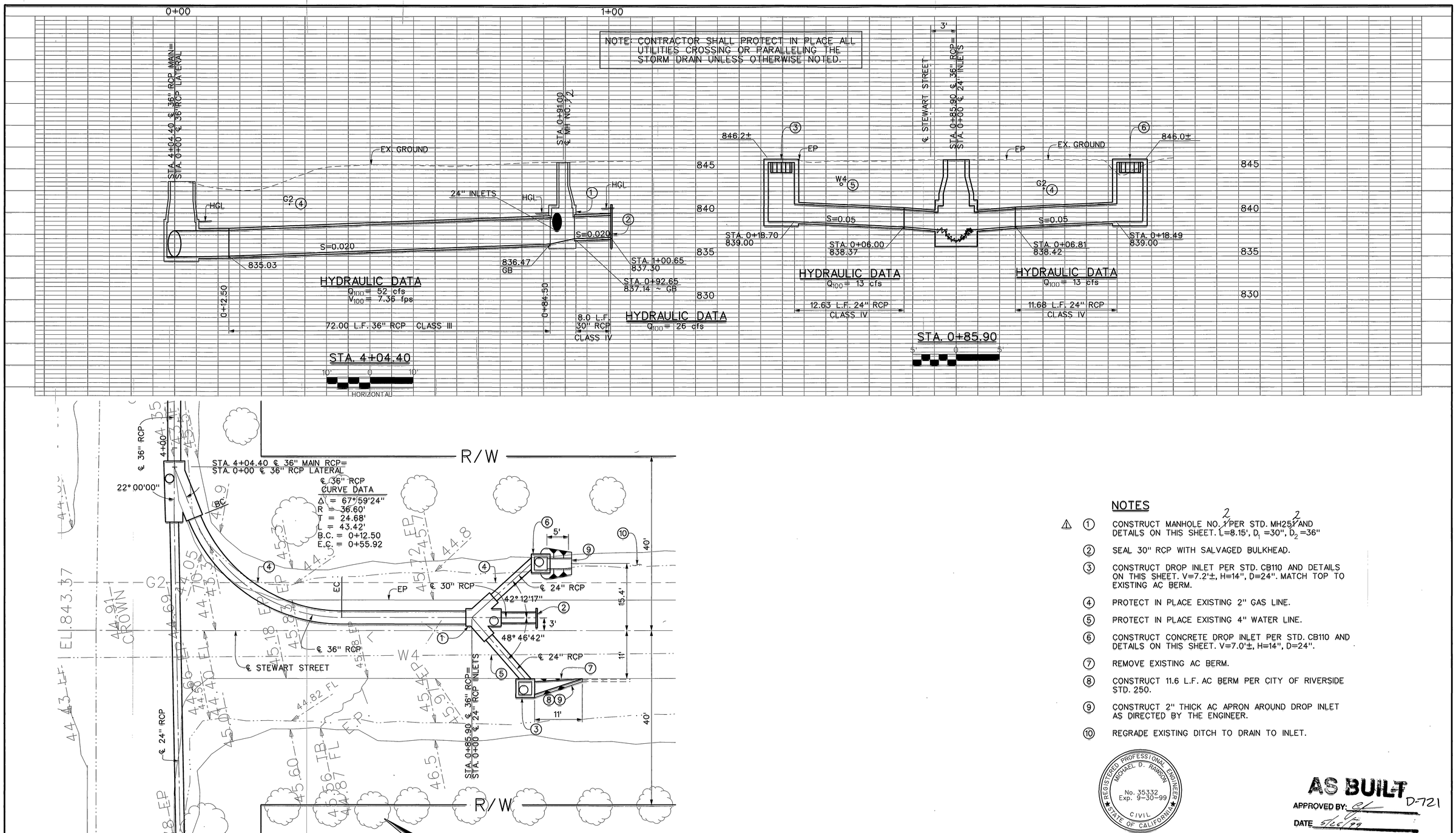
STA 4+00 TO STA 5+21.00

PROJECT NO. 1-0-0173

DRAWING NO. 1-564

SHEET NO. 12 OF 42

INDEXED 2-7-03 [illegible]



NOTES

1. CONSTRUCT MANHOLE NO. ~~1~~ 2 PER STD. MH252 ~~1~~ 2 AND DETAILS ON THIS SHEET. L=8.15', D_1 =30", D_2 =36"
2. SEAL 30" RCP WITH SALVAGED BULKHEAD.
3. CONSTRUCT DROP INLET PER STD. CB110 AND DETAILS ON THIS SHEET. V=7.2'±, H=14", D=24". MATCH TOP TO EXISTING AC BERM.
4. PROTECT IN PLACE EXISTING 2" GAS LINE.
5. PROTECT IN PLACE EXISTING 4" WATER LINE.
6. CONSTRUCT CONCRETE DROP INLET PER STD. CB110 AND DETAILS ON THIS SHEET. V=7.0'±, H=14", D=24".
7. REMOVE EXISTING AC BERM.
8. CONSTRUCT 11.6 L.F. AC BERM PER CITY OF RIVERSIDE STD. 250.
9. CONSTRUCT 2" THICK AC APRON AROUND DROP INLET AS DIRECTED BY THE ENGINEER.
10. REGRADE EXISTING DITCH TO DRAIN TO INLET.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT D-721
APPROVED BY: [illegible]
DATE 5/26/99

BENCH MARK

REVISIONS			
1	REVISED NOTE		
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: K. OIEN
DRAWN BY: E. SIMPSON
DATE DRAWN: October 1996
CHECKED BY: KONG

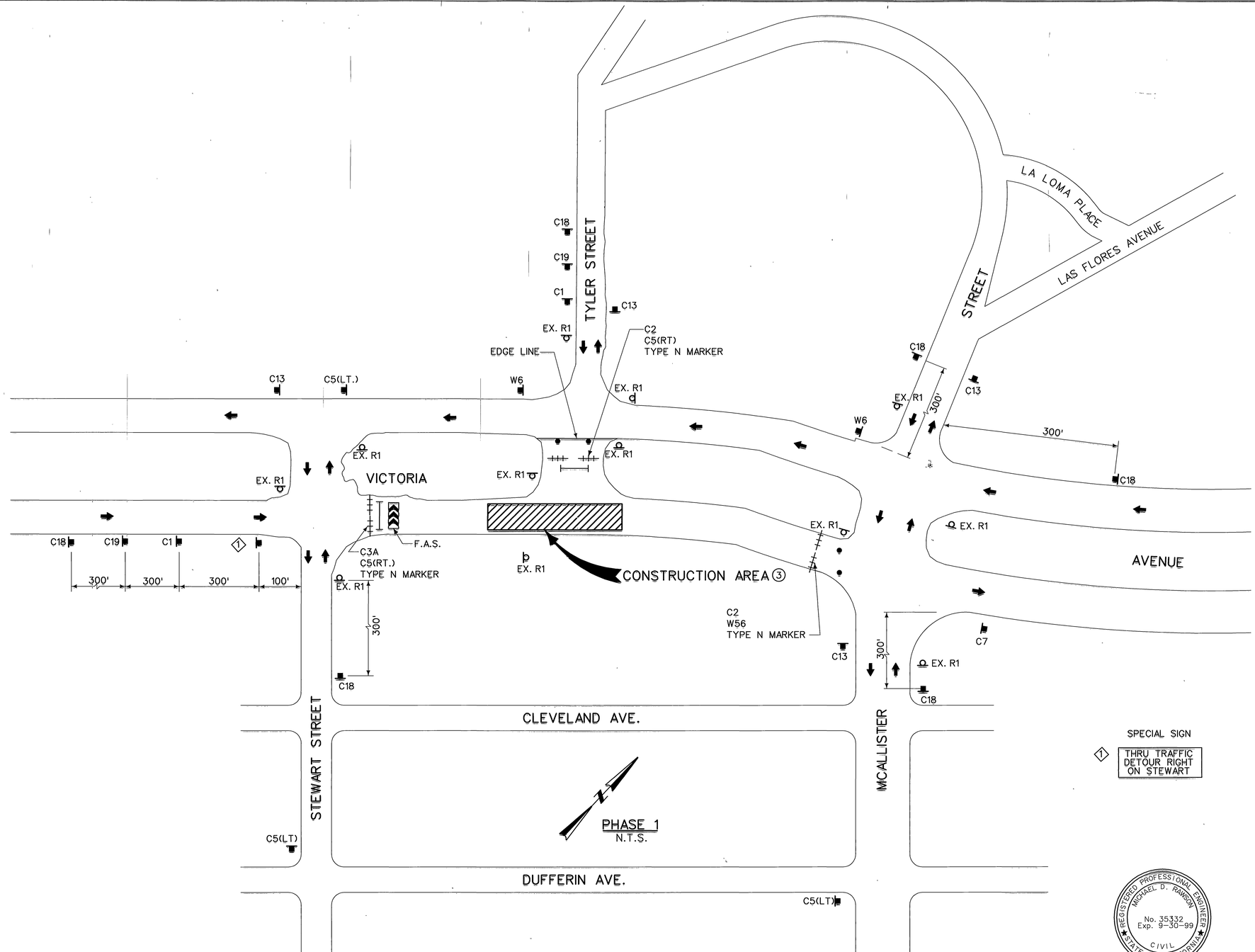
RECOMMENDED FOR APPROVAL BY: Michael D. Rawson, DESIGN ENGINEER R.E. No. 35332, DATE: 11/5/96
APPROVED BY: [illegible], CHIEF ENGINEER R.E. No. 22035, DATE: 11/6/96

SOUTHWEST RIVERSIDE MDP LINE C-5

CONNECTOR PIPE PROFILES

PROJECT NO. 1-0-0173
DRAWING NO. 1-564
SHEET NO. 13 OF 42

INDEXED 2-7-03 [illegible]



LEGEND:

- SIGN
- EXISTING SIGN
- CONE OR PORTABLE DELINEATOR
- DIRECTION OF TRAFFIC
- BARRICADE TYPE III
- TYPE K TEMPORARY RAILING

DETOUR AHEAD	C1	ROAD CLOSED AHEAD	C19
ROAD CLOSED	C2	25 MPH	W6
ROAD CLOSED TO THRU TRAFFIC	C3A		
DETOUR	C5		
END DETOUR	C7		W56
END CONSTRUCTION	C13	DO NOT ENTER	R11
ROAD CONSTRUCTION AHEAD	C18		
			TYPE N MARKER
	F.A.S. (FLASHING ARROW SIGN)		

GENERAL NOTES:

1. THESE ARE MINIMUM SIGNING REQUIREMENTS. ADDITIONAL SIGNS MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL TRAFFIC CONTROL MEASURES, CONSTRUCTION SIGNS, DELINEATORS, ETC., AND THEIR USE DURING CONSTRUCTION, SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MANUAL OF TRAFFIC CONTROLS (LATEST EDITION) AND LOCAL REGULATIONS.

③ THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL PRIVATE PROPERTIES AT ALL TIMES.

4. FLASHING YELLOW BEACONS, TYPE B, SHALL BE USED ON ALL C18 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. AFTER WORKING HOURS THE TRENCH SHALL BE EITHER BACKFILLED OR PLACE TYPE K TEMPORARY RAILING AT BOTH SIDES OF THE TRENCH AND INSTALL 6' TEMPORARY CHAIN LINK FENCE AROUND THE ENTIRE CONSTRUCTION AREA.
6. TYPE K TEMPORARY RAILING MAY BE SUBSTITUTED WITH DIRT MOUND (MINIMUM 4' HIGH AND 2' WIDE ON TOP).
7. SPECIAL CONSTRUCTION SIGN SHALL BE MANUFACTURED USING MINIMUM SIX INCH UPPER CASE LETTERS WITH BLACK BORDERS ON AN ORANGE REFLECTIVE BACKGROUND.

SPECIAL SIGN

① THRU TRAFFIC DETOUR RIGHT ON STEWART

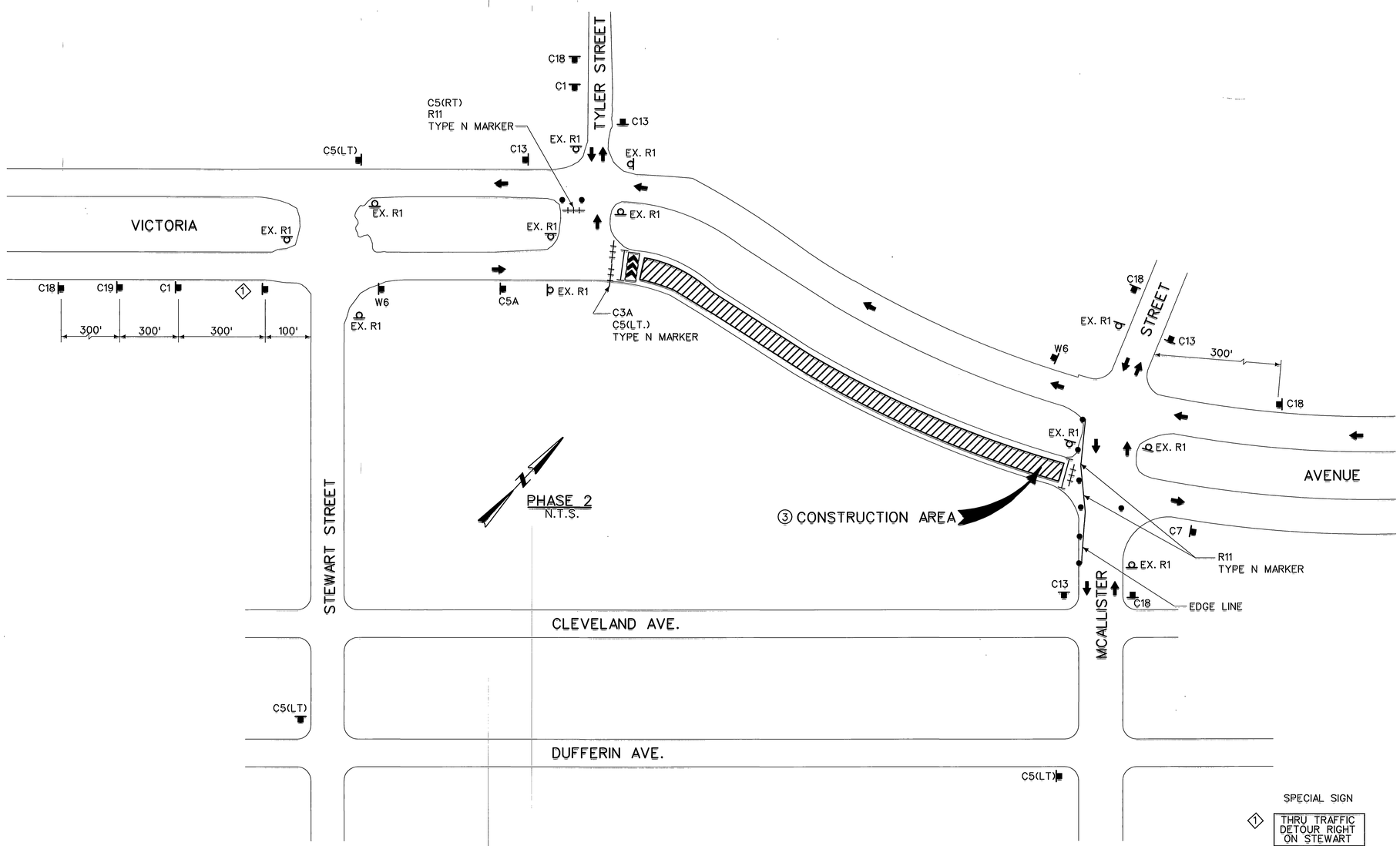
REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RAWSON No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

AS BUILT
APPROVED BY: [illegible]
DATE 5/22/99

D-721

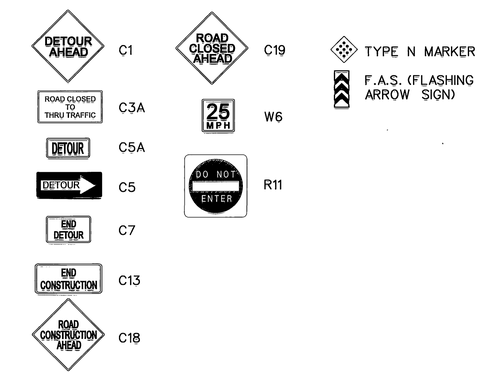
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT	BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	SOUTHWEST RIVERSIDE MDP LINE C-6	PROJECT NO. 1-0-0174
APPROVED BY: [illegible] PUBLIC WORKS DIRECTOR DATE: 11/18/96		REF. / DESCRIPTION / APPR. / DATE	DESIGNED BY: K. OIEN; DRAWN BY: R.M./E. SIMPSON; DATE DRAWN: October 1996; CHECKED BY: KONG	TRAFFIC CONTROL PLAN PHASE 1	DRAWING NO. 1-564
			RECOMMENDED FOR APPROVAL BY: Michael D. Rawson DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96; APPROVED BY: [illegible] CHIEF ENGINEER REG. NO. 22035 DATE: 11/6/96		SHEET NO. 14 OF 42

INDEXED 2-7-03 [illegible]



LEGEND:

- SIGN
- EXISTING SIGN
- CONE OR PORTABLE DELINEATOR
- DIRECTION OF TRAFFIC
- BARRICADE TYPE III
- TYPE K TEMPORARY RAILING



SPECIAL SIGN

⑦ THRU TRAFFIC DETOUR RIGHT ON STEWART

GENERAL NOTES:

1. THESE ARE MINIMUM SIGNING REQUIREMENTS. ADDITIONAL SIGNS MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL TRAFFIC CONTROL MEASURES, CONSTRUCTION SIGNS, DELINEATORS, ETC., AND THEIR USE DURING CONSTRUCTION, SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MANUAL OF TRAFFIC CONTROLS (LATEST EDITION) AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL PRIVATE PROPERTIES AT ALL TIMES.
4. FLASHING YELLOW BEACONS, TYPE B, SHALL BE USED ON ALL C18 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. AFTER WORKING HOURS THE TRENCH SHALL BE EITHER BACKFILLED OR PLACE TYPE K TEMPORARY RAILING AT BOTH SIDES OF THE TRENCH AND INSTALL 6' TEMPORARY CHAIN LINK FENCE AROUND THE ENTIRE CONSTRUCTION AREA.
6. TYPE K TEMPORARY RAILING MAY BE SUBSTITUTED WITH DIRT MOUND (MINIMUM 4' HIGH AND 2' WIDE ON TOP).
7. SPECIAL CONSTRUCTION SIGN SHALL BE MANUFACTURED USING MINIMUM SIX INCH UPPER CASE LETTERS WITH BLACK BORDERS ON AN ORANGE REFLECTIVE BACKGROUND.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. RAWSON
No. 35332
Exp. 9-30-99
CIVIL
STATE OF CALIFORNIA

D-721

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT	BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	SOUTHWEST RIVERSIDE MDP LINE C-6	PROJECT NO. 1-0-0174
APPROVED BY: PUBLIC WORKS DIRECTOR DATE: 11/18/96		REF. / DESCRIPTION / APPR. / DATE	DESIGNED BY: K. OIEN; DRAWN BY: R.M./E. SIMPSON; DATE DRAWN: October 1996; CHECKED BY: KONG	TRAFFIC CONTROL PLAN PHASE 2	DRAWING NO. 1-564
			RECOMMENDED FOR APPROVAL BY: DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96	APPROVED BY: CHIEF ENGINEER R.E. No. 22035 DATE: 11/6/96	SHEET NO. 15 OF 42

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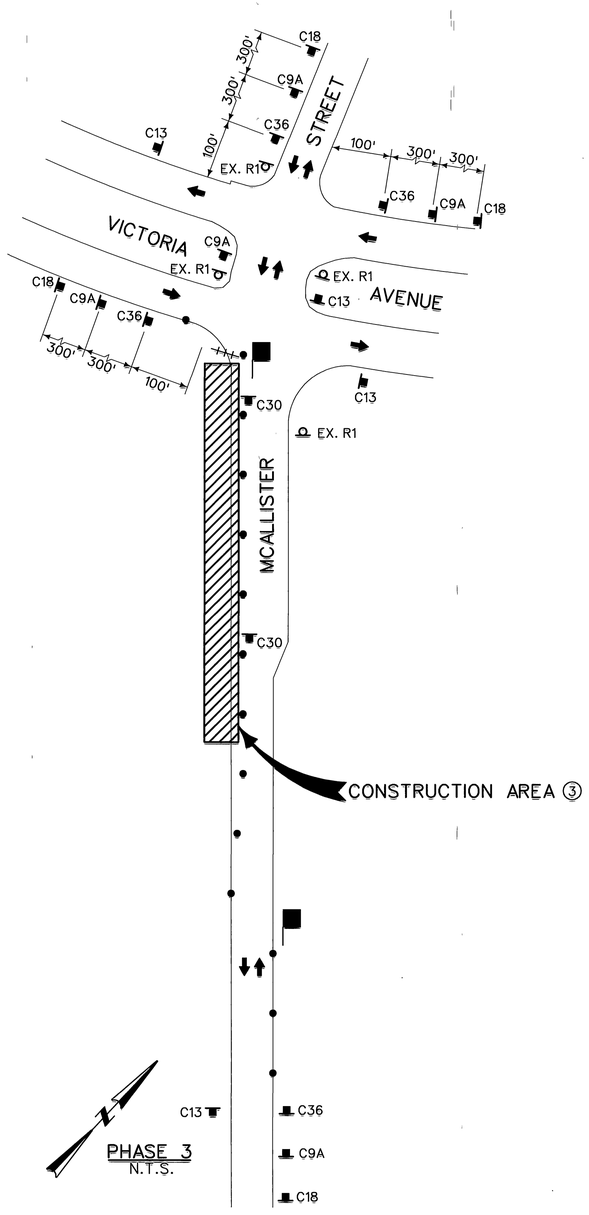

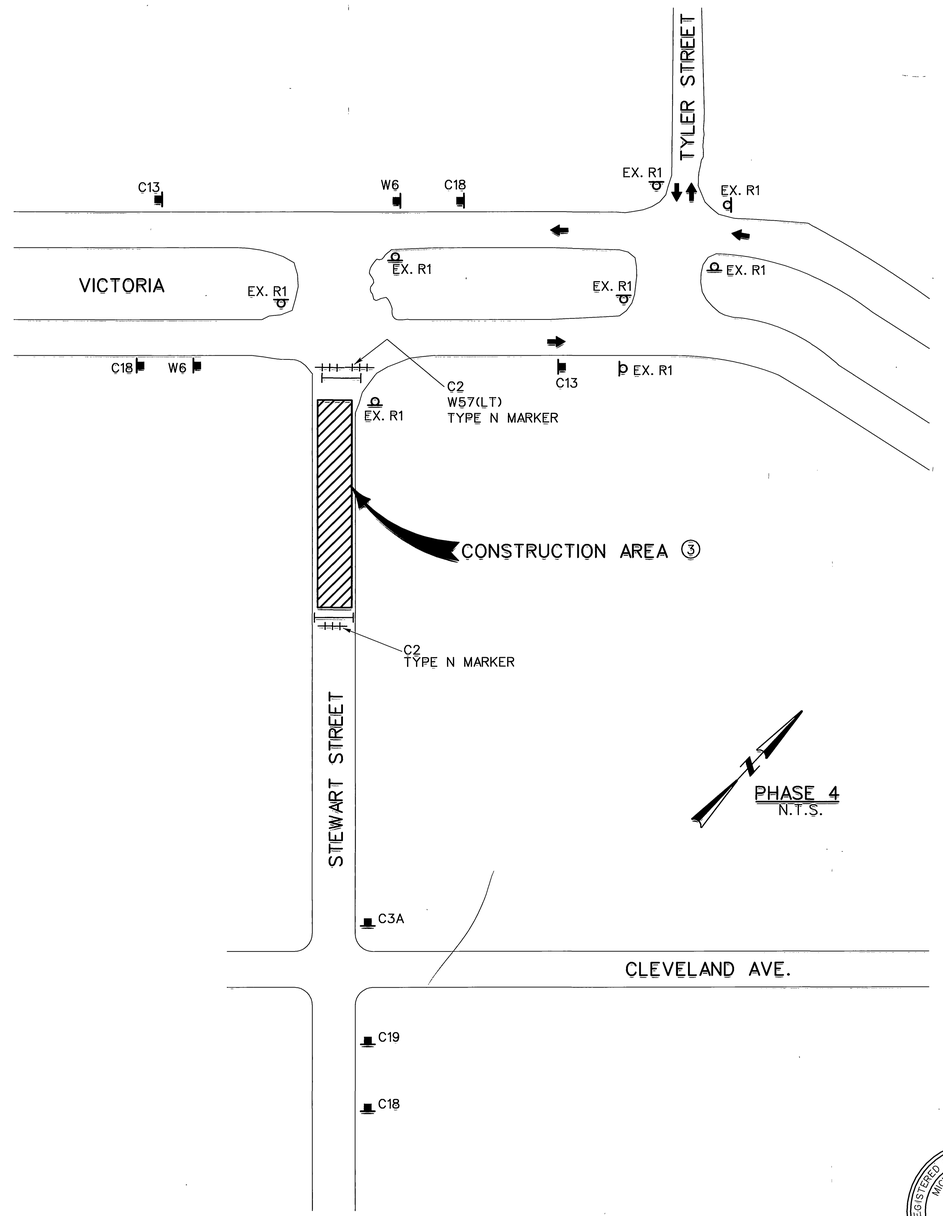

LEGEND:

- FLAGGER
- SIGN
- EXISTING SIGN
- CONE OR PORTABLE DELINEATOR
- DIRECTION OF TRAFFIC
- BARRICADE TYPE III
- TYPE K TEMPORARY RAILING

DETOUR AHEAD	C1	LANE CLOSED	C30
ROAD CLOSED	C2	PREPARE TO STOP	C36
ROAD CLOSED TO THRU TRAFFIC	C3A	25 MPH	W6
DETOUR	C5		W57
	C9A	DO NOT ENTER	R11
END CONSTRUCTION	C13		
ROAD CONSTRUCTION AHEAD	C18		
ROAD CLOSED AHEAD	C19		

TYPE N MARKER

F.A.S. (FLASHING ARROW SIGN)

GENERAL NOTES:

1. THESE ARE MINIMUM SIGNING REQUIREMENTS. ADDITIONAL SIGNS MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL TRAFFIC CONTROL MEASURES, CONSTRUCTION SIGNS, DELINEATORS, ETC., AND THEIR USE DURING CONSTRUCTION, SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MANUAL OF TRAFFIC CONTROLS (LATEST EDITION) AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL PRIVATE PROPERTIES AT ALL TIMES.
4. FLASHING YELLOW BEACONS, TYPE B, SHALL BE USED ON ALL C18 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. AFTER WORKING HOURS THE TRENCH SHALL BE EITHER BACKFILLED OR PLACE TYPE K TEMPORARY RAILING AT BOTH SIDES OF THE TRENCH AND INSTALL 6' TEMPORARY CHAIN LINK FENCE AROUND THE ENTIRE CONSTRUCTION AREA.
6. TYPE K TEMPORARY RAILING MAY BE SUBSTITUTED WITH DIRT MOUND (MINIMUM 4' HIGH AND 2' WIDE ON TOP).

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. RANSOM No. 35332 Exp. 9-30-99 CIVIL STATE OF CALIFORNIA

D-721

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT APPROVED BY: Barry Beck PUBLIC WORKS DIRECTOR DATE: 11/18/96	BENCH MARK	REVISIONS REF. / DESCRIPTION / APPR. / DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DESIGNED BY: B.C./K. OIEN DRAWN BY: R.M./E. SIMPSON DATE DRAWN: October 1996 CHECKED BY: KONG	RECOMMENDED FOR APPROVAL BY: Michael D. Ransom DESIGN ENGINEER R.E. No. 35332 DATE: 11/5/96 APPROVED BY: David Zyn CHIEF ENGINEER R.E. No. 22035 DATE: 11/6/96	SOUTHWEST RIVERSIDE MDP LINE C-5 AND C-6 TRAFFIC CONTROL PLAN PHASES 3 AND 4	PROJECT NO. 1-0-0174 DRAWING NO. 1-564 SHEET NO. 16 OF 42

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