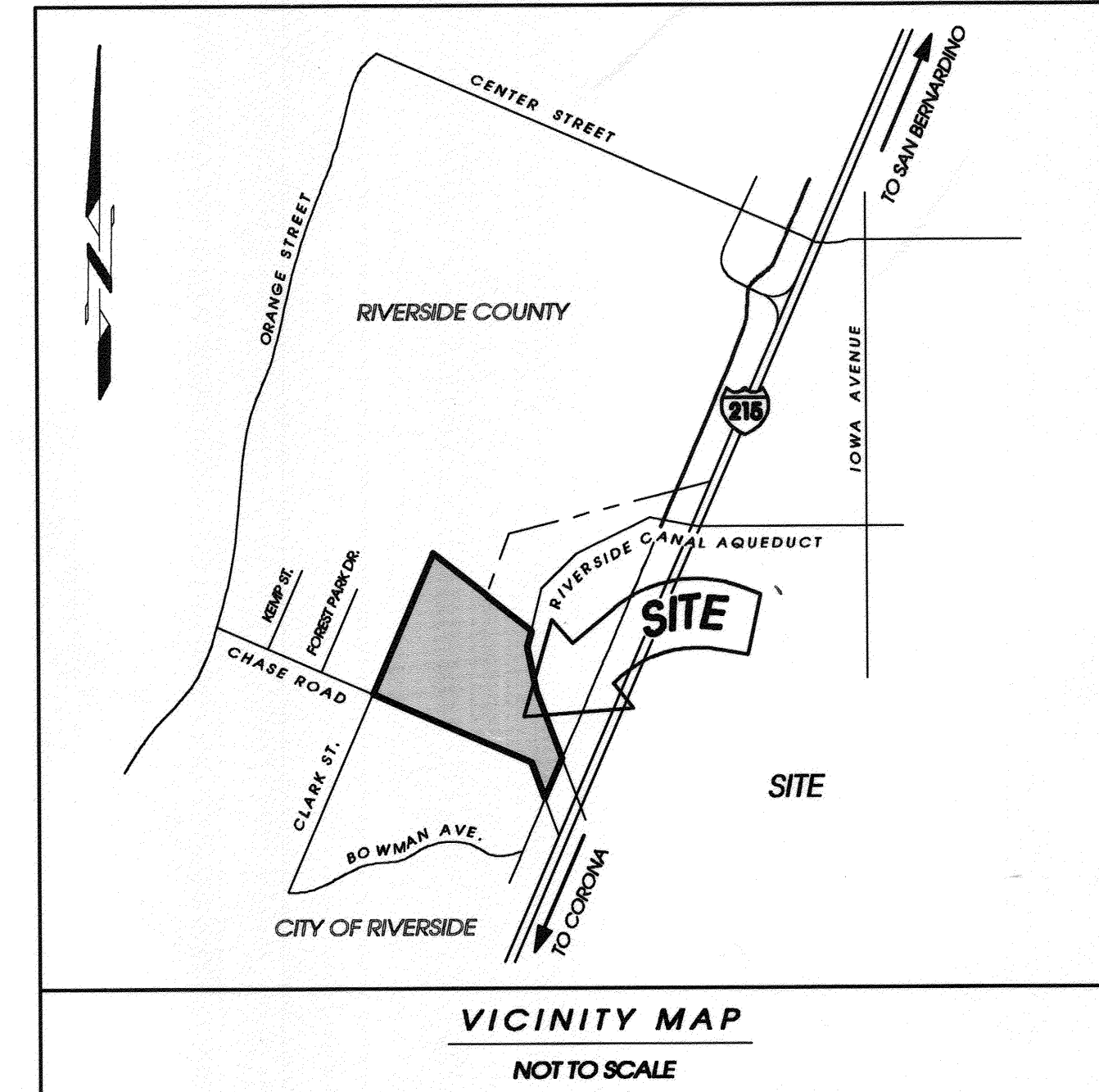
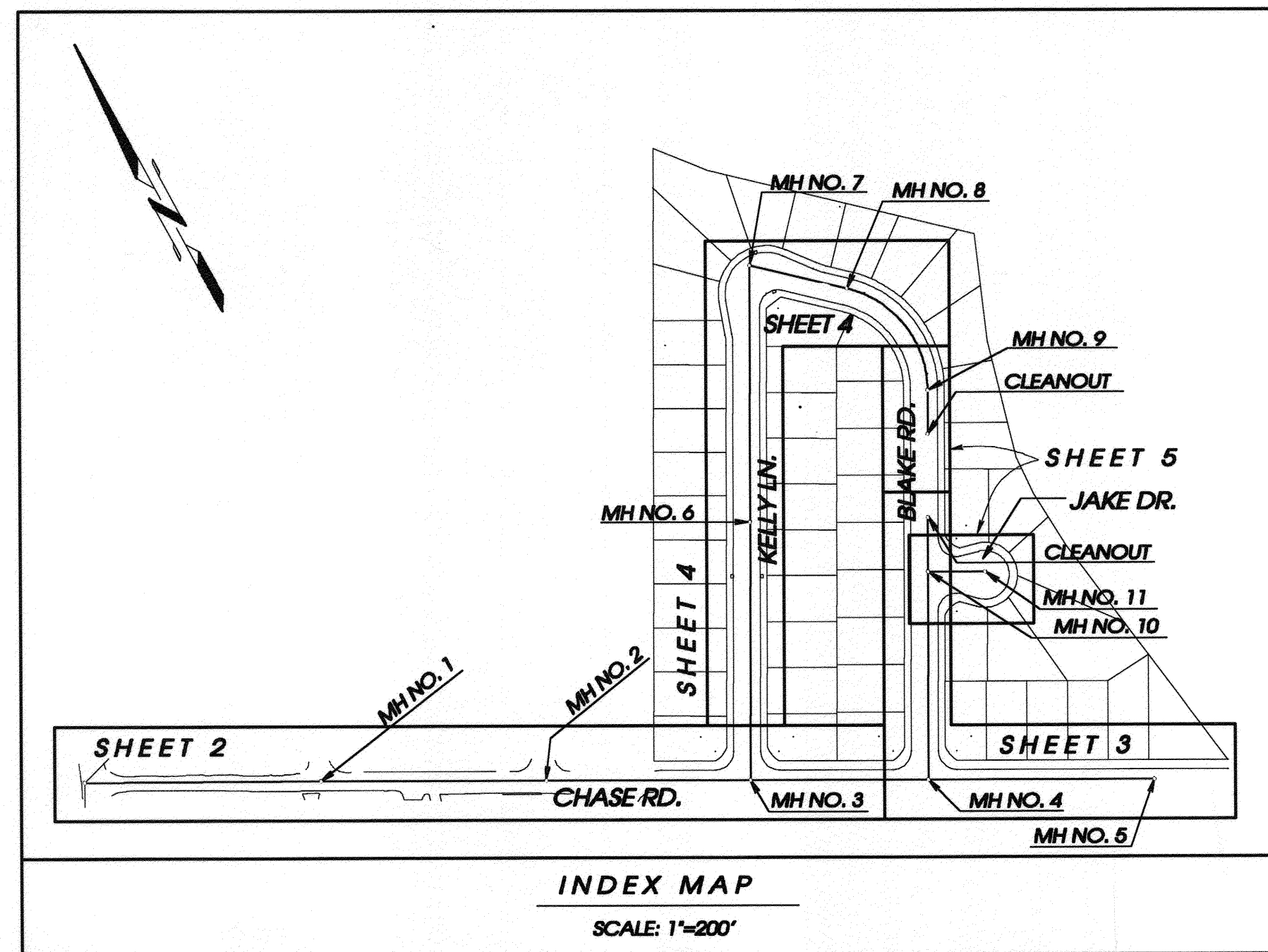


# SEWER IMPROVEMENT PLANS IN THE CITY OF RIVERSIDE FOR TRACT No. 29097

### GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA) PHONE No. 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION No. BY USA.
8. THE CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
9. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
10. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 4" ABOVE THE SEWER FLOW LINE AT POINT OF CONNECTION WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
11. A PLUG SHALL BE INSTALLED AND WILL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY.
12. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
13. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECT WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.



### PROFESSIONAL ENGINEER'S NOTICE TO CONTRACTOR:

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

### R/W CURVE DATA

LINE	BEARING	DISTANCE
L1	S19°06'09"W	21.13'
L2	S19°06'09"W	28.13'
L3	N37°34'10"W	49.29'
L4	N87°46'16"E	25.67'
L5	N76°52'08"W	25.82'
L6	S46°53'02"E	25.82'
L7	N47°34'11"W	10.24'
L8	N47°34'11"W	29.83'

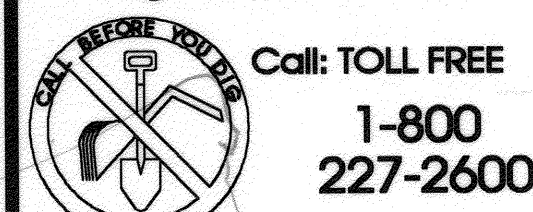
### R/W CURVE DATA

CURVE #	DELTA	RADIUS	LENGTH	TANGENT
C1	36°44'38"	41.80'	26.61'	13.78'
C2	37°01'00"	41.80'	26.82'	13.90'
C3	08°11'02"	90.00'	12.84'	6.44'
C4	24°42'02"	71.00'	30.61'	15.65'
C5	28°20'16"	71.00'	35.12'	17.92'
C6	08°11'06"	90.00'	12.86'	6.44'
C7	16°22'13"	180.00'	61.43'	25.89'
C8	23°36'06"	180.00'	74.18'	37.61'
C9	07°17'19"	120.00'	15.36'	7.54'
C10	63°08'00"	120.00'	132.24'	73.75'
C11	04°18'08"	120.00'	13.09'	6.65'
C12	47°41'48"	34.60'	29.92'	15.98'
C13	20°42'06"	48.00'	17.36'	8.77'
C14	41°46'41"	48.00'	35.00'	18.32'
C15	19°31'01"	48.00'	16.36'	8.26'
C16	47°41'48"	34.60'	29.92'	15.98'
C17	37°01'00"	41.80'	26.82'	13.90'
C18	36°44'38"	41.80'	26.61'	13.78'
C19	28°14'46"	71.00'	35.00'	17.86'
C20	38°42'20"	71.00'	47.96'	24.94'
C21	03°19'24"	71.00'	4.12'	2.05'
C22	10°26'46"	180.00'	32.76'	16.48'
C23	16°22'13"	180.00'	61.43'	25.89'
C24	09°54'56"	180.00'	31.16'	15.61'
C25	41°54'42"	48.00'	35.11'	18.38'
C26	44°17'56"	48.00'	37.11'	19.64'
C27	41°46'41"	48.00'	35.00'	18.32'

### CONSTRUCTION NOTES

- ① FURNISH AND INSTALL 8" VCP SEWER MAIN
- ② FURNISH AND INSTALL 4" VCP SEWER LATERAL WITH CLEAN OUT AT RIGHT OF WAY PER CITY OF RIV. STD. 562A.
- ③ FURNISH AND INSTALL 4" CLEANOUT PER CITY OF RIVERSIDE STD. NO. 560
- ④ FURNISH AND INSTALL MANHOLE PER CITY OF RIVERSIDE STD. NO. 500

### Underground Service Alert

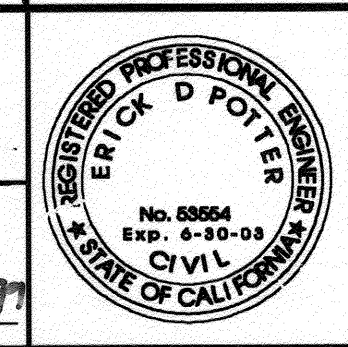


Call: TOLL FREE  
**1-800  
227-2600**

TWO WORKING DAYS BEFORE YOU DIG

<b>CITY OF RIVERSIDE WATER SYSTEM</b> APPROVED BY: <i>Richard J. Durbak</i> 8/23/99 DATE: 8/23/99	<b>CITY OF RIVERSIDE ELECTRIC DEPARTMENT</b> APPROVED BY: <i>Jim Mair</i> 8/23/99 DATE: 8/23/99
<b>PAC-BELL TELEPHONE</b> REVIEWED FOR CONFLICTS APPROVED BY: <i>David L. ...</i> 8/17/99 DATE: 8/17/99	<b>SO. CA. GAS COMPANY</b> REVIEWED FOR CONFLICTS APPROVED BY: <i>Alan Klein</i> 8/17/99 DATE: 8/17/99
<b>CHARTER CABLE</b> REVIEWED FOR CONFLICTS APPROVED BY: <i>Carl ...</i> 8-17-99 DATE: 8-17-99	

<b>EPIC ENGINEERS</b> CIVIL ENGINEERING 101 E. REDLANDS BOULEVARD SUITE 217 RIVERSIDE, CA 92507 TELE 909-792-5989 FAX 909-792-5989 EMAIL: EPIC@EPIC.COM	<b>CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT</b> APPROVED BY: <i>Emil D. Potter</i> DATE: 8-18-99
--	---



<b>CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT</b> APPROVED BY: <i>R. M. ...</i> DATE: 10-7-99	<b>SEWER IMPROVEMENT PLAN TRACT NO. 29097</b> ACCOUNT NO. S-1717 SHEET 1 of 5
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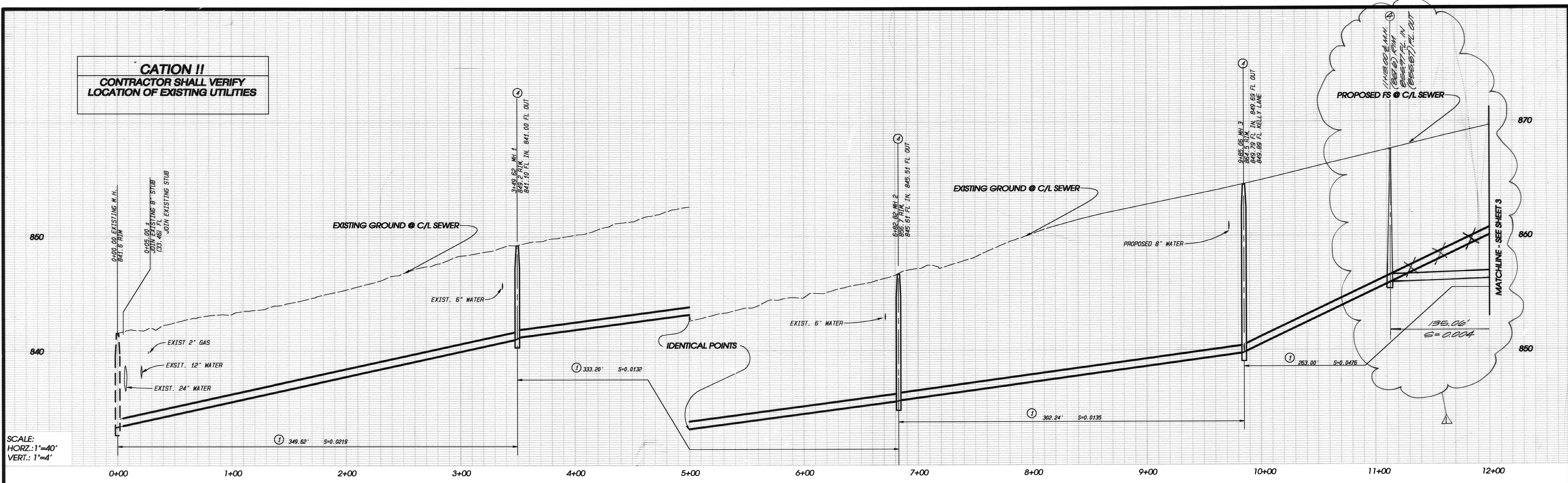
DESIGNED BY: <i>RW</i>	DRAWN BY: <i>ELC</i>	CHECKED BY: <i>EDP</i>	DESIGN ENGR.	CITY ENGR.
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HORIZONTAL SCALE: 1" = 40'	VERTICAL SCALE: 1" = 4'	INDEXED 10-28-99 4/1
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RIVER SIDE, CA 92507, 10/28/99



**CAUTION !!**  
**CONTRACTOR SHALL VERIFY**  
**LOCATION OF EXISTING UTILITIES**

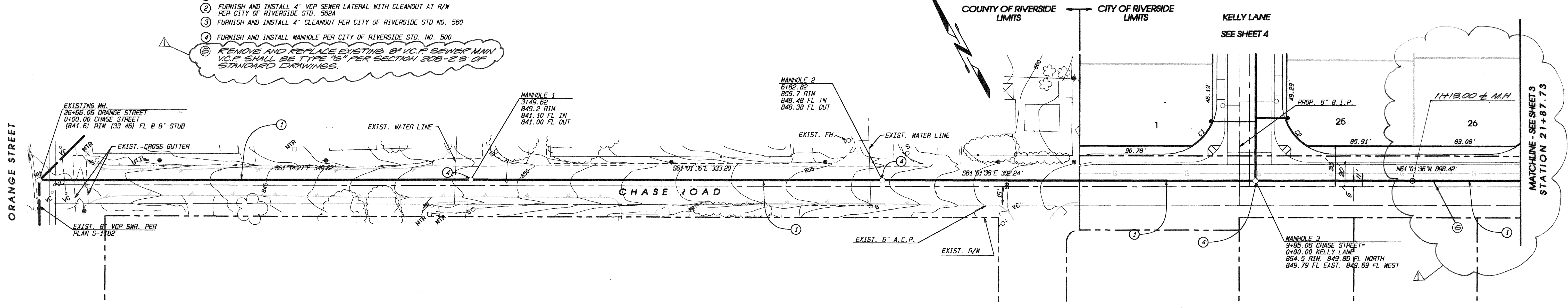


SCALE:  
 HORZ.: 1"=40'  
 VERT.: 1"=4'

NOTE:  
 ALL ASPHALT TO BE REPLACED PER  
 RIVERSIDE COUNTY REQUIREMENTS.

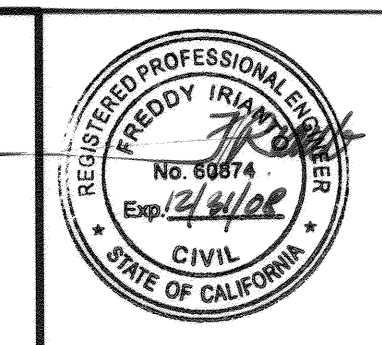
**CONSTRUCTION NOTES**

- 1 FURNISH AND INSTALL 8" VCP SEWER MAIN
  - 2 FURNISH AND INSTALL 4" VCP SEWER LATERAL WITH CLEANOUT AT R/W PER CITY OF RIVERSIDE STD. 562A
  - 3 FURNISH AND INSTALL 4" CLEANOUT PER CITY OF RIVERSIDE STD NO. 560
  - 4 FURNISH AND INSTALL MANHOLE PER CITY OF RIVERSIDE STD. NO. 500
- 5 REMOVE AND REPLACE EXISTING 8" V.C.P. SEWER MAIN. V.C.P. SHALL BE TYPE "B" PER SECTION 208-2.3 OF STANDARD DRAWINGS.



SCALE: 1"=40'

**Underground Service Alert**  
 Call: TOLL FREE  
 1-800  
 227-2600



**IWI CONSULTING ENGINEERS, INC.**  
 3544 UNIVERSITY AVE., RIVERSIDE, CA  
 951-881-5124 FAX: 951-881-5111

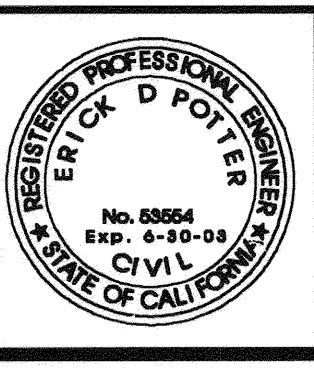
UNDER THE SUPERVISION OF:  
*Freddy Iriando*  
 FREDDY IRIANDO DATE  
 R.C.E. 00074 EXP 12/31/08

**CITY OF RIVERSIDE**  
 WATER SYSTEM  
 Richard J. Dinko 8/23/99

**CITY OF RIVERSIDE**  
 ELECTRIC DEPARTMENT  
 B. Dominick 8-20-99

**SO. CA. GAS COMPANY**  
 REVIEWED FOR CONFLICTS  
 Steve Kern 8/17/99

**CHARTER CABLE**  
 REVIEWED FOR CONFLICTS  
 G. Kelly 8-11-99



Prepared By: **EPIC ENGINEERS**  
 CIVIL ENGINEERING LAND SURVEYING  
 101 E. REDLANDS BL., "EWARD" SUITE 217 REDLANDS, CA 92373  
 TELE 909-782-9999 FAX 909-782-9999 EMAIL EPICRCE@AOL.COM

APPROVED BY: *Erik D. Potter* DATE: 8-16-99

MARK	REVISIONS	APPROVED DATE	APPROVED DATE
	1. I.W. IS RESPONSIBLE FOR DELTA 1 REVISION, REVISE PLAN & PROFILE 9/1/99		

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *R. McSwain* DATE: 10-7-99  
 PUBLIC WORKS DIRECTOR

**SEWER IMPROVEMENT PLAN**  
 TRACT NO. 29097  
 CHASE ROAD

ACCOUNT NO.  
 S-1717

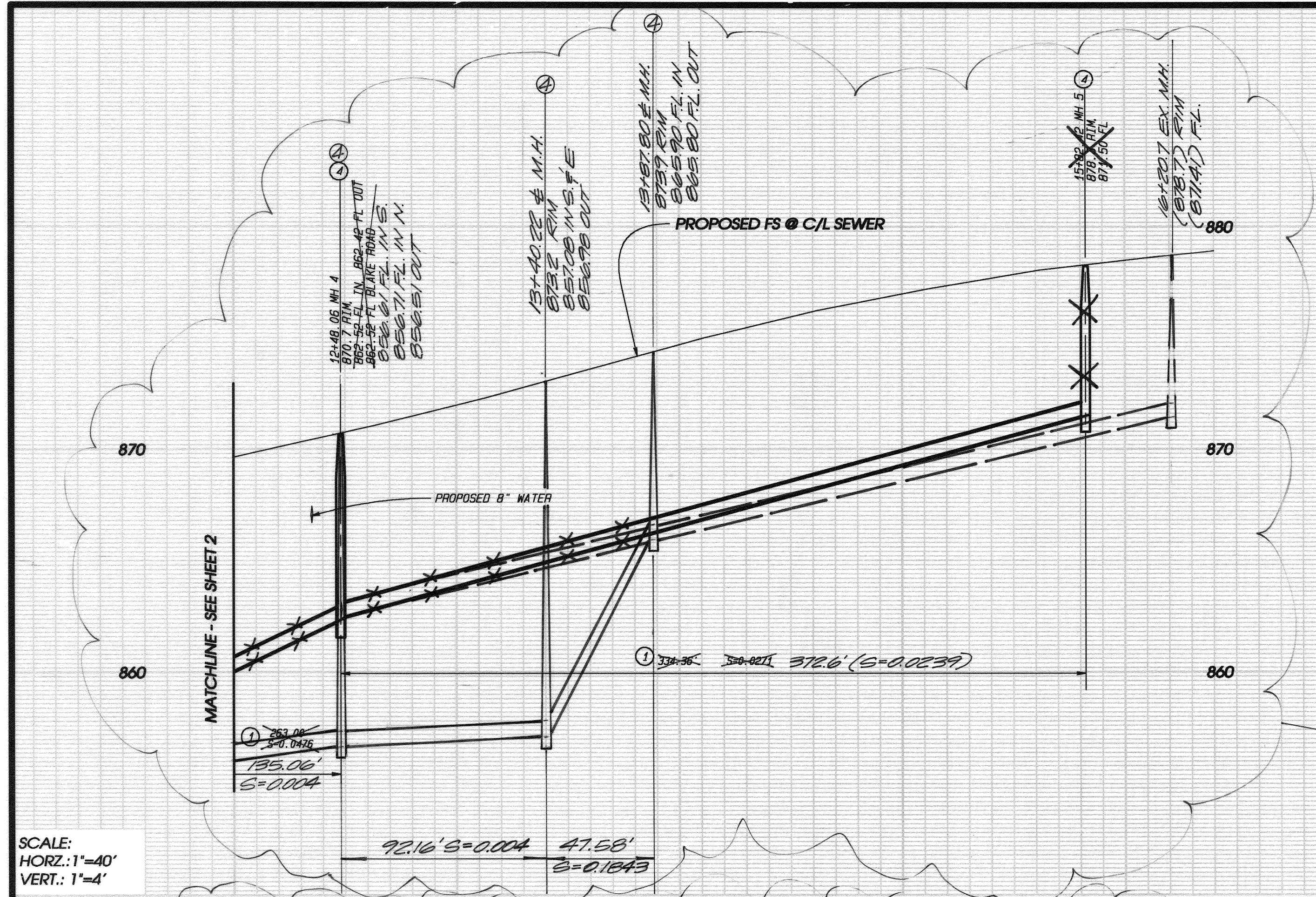
SHEET **2** OF **5**

HORIZONTAL SCALE: 1"=40' VERTICAL SCALE: 1"=4'

INDEXED 10-20-99

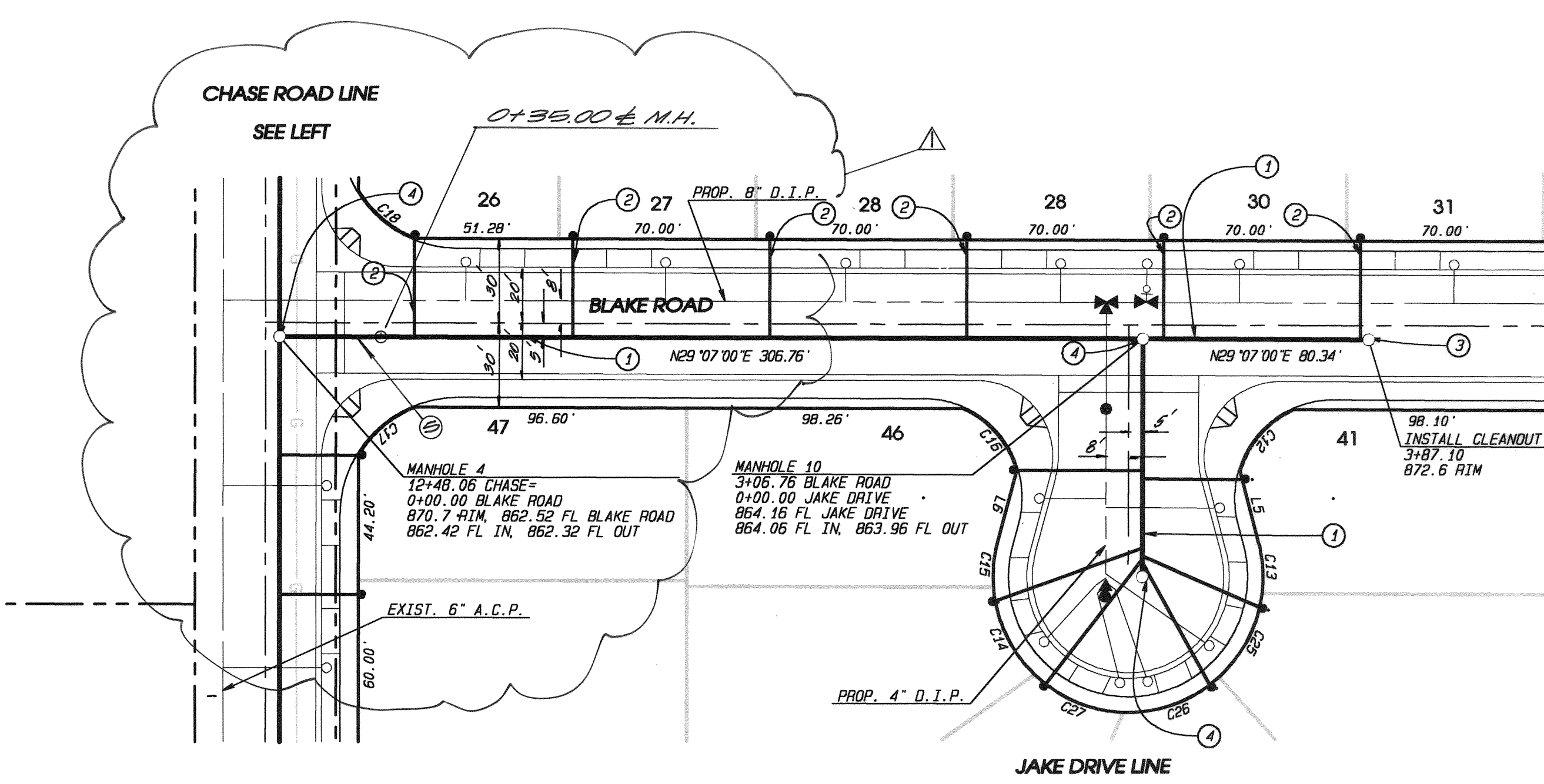
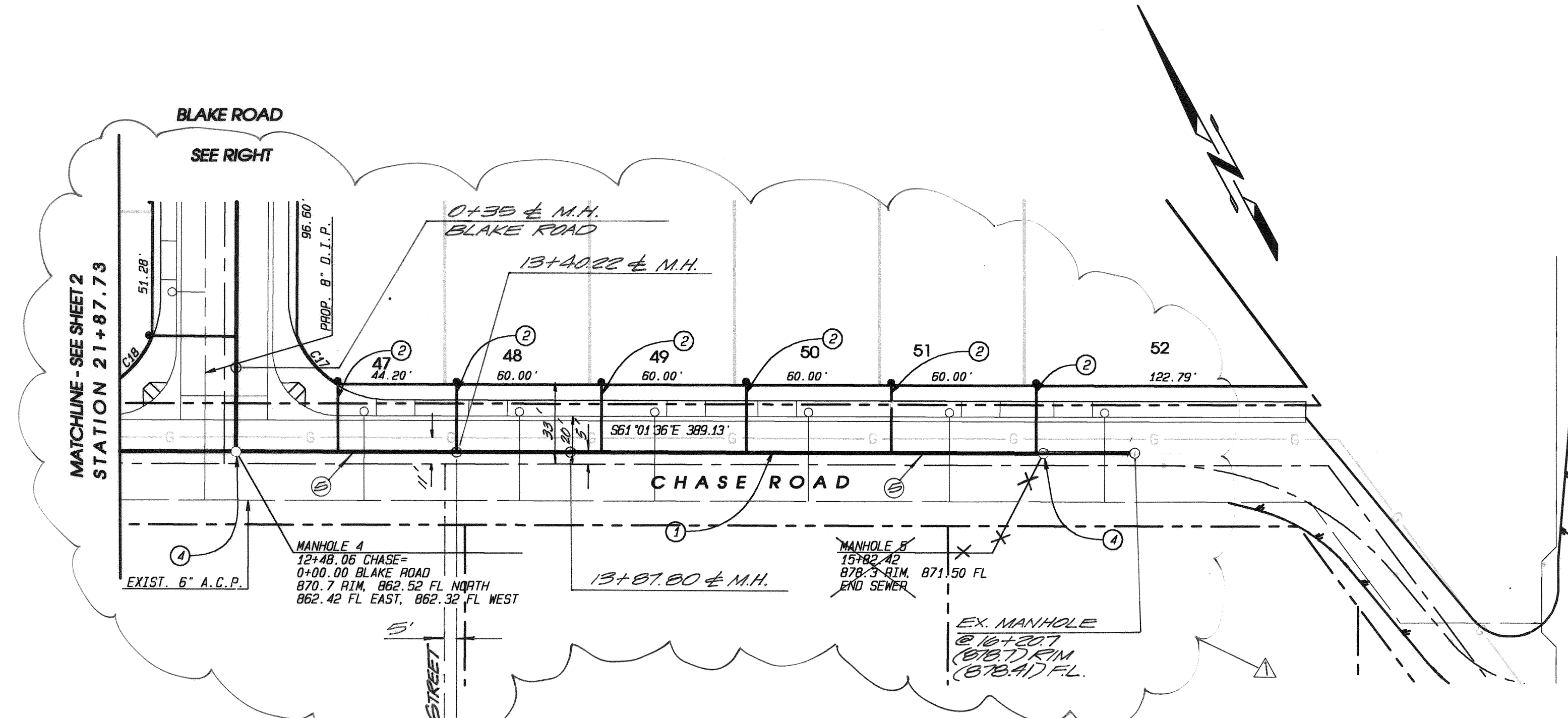
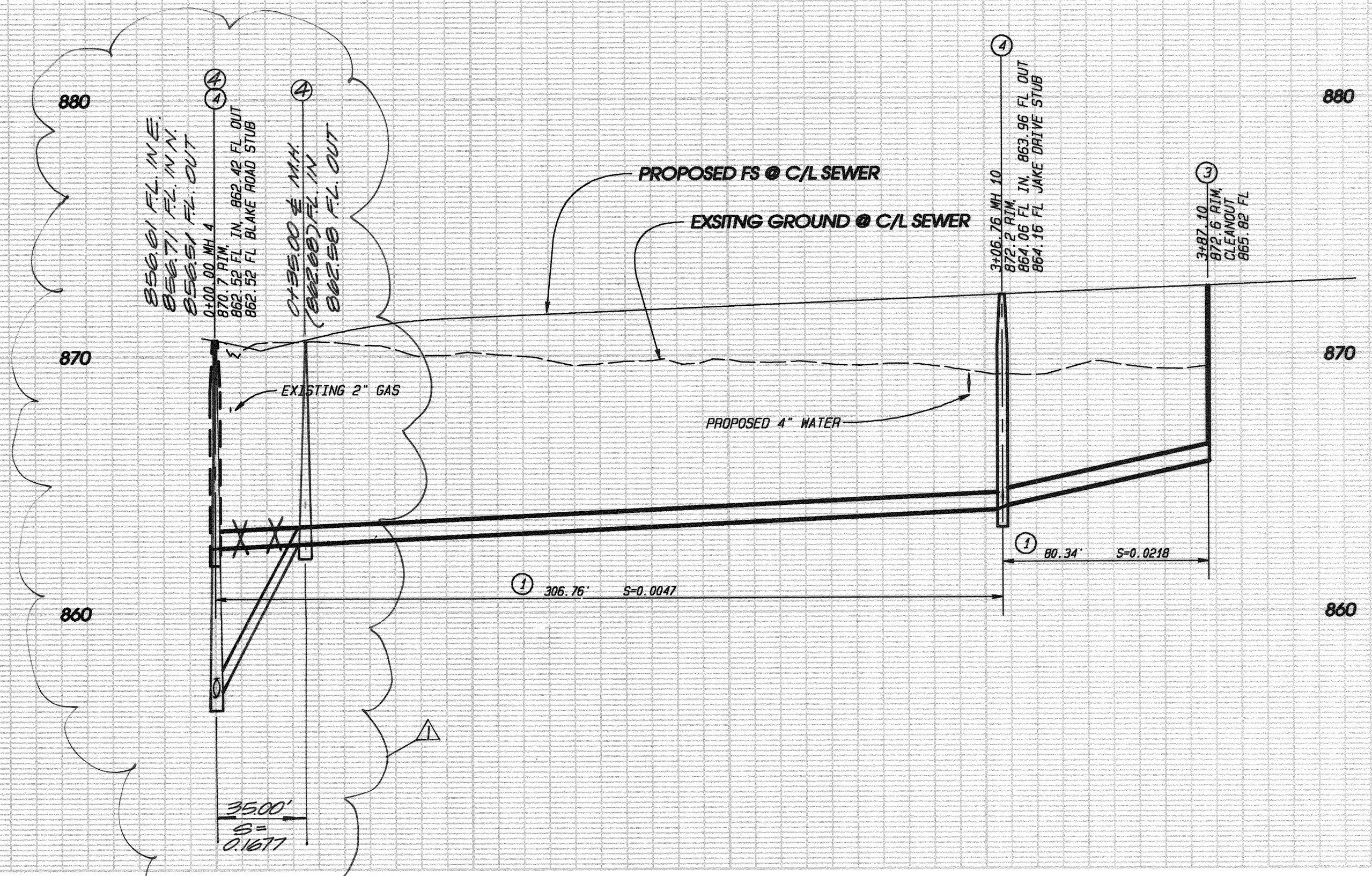
RIVER SIDE COUNTY PUBLIC WORKS DEPARTMENT





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

NOTE:  
ALL ASPHALT TO BE REPLACED PER  
RIVERSIDE COUNTY REQUIREMENTS.



**CONSTRUCTION NOTES**

- 1 FURNISH AND INSTALL 8" VCP SEWER MAIN
- 2 FURNISH AND INSTALL 4" VCP SEWER LATERAL WITH CLEANOUT AT R/W PER CITY OF RIVERSIDE STD. 562A
- 3 FURNISH AND INSTALL 4" CLEANOUT PER CITY OF RIVERSIDE STD NO. 560
- 4 FURNISH AND INSTALL MANHOLE PER CITY OF RIVERSIDE STD NO. 500
- 5 REMOVE AND REPLACE EXISTING 8" V.C.P. SEWER MAIN.

**Underground Service Alert**  
Call: TOLL FREE  
1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

**CITY OF RIVERSIDE WATER SYSTEM**  
APPROVED BY: [Signature] DATE: 8/23/99

**CITY OF RIVERSIDE ELECTRIC DEPARTMENT**  
APPROVED BY: [Signature] DATE: 8-20-99

**SO. CA. GAS COMPANY**  
REVIEWED FOR CONFLICTS: [Signature] DATE: 8/11/99

**CHARTER CABLE**  
REVIEWED FOR CONFLICTS: [Signature] DATE: 8-11-99

REGISTERED PROFESSIONAL ENGINEER  
ELECTRICAL  
Blick D. Potter  
No. 63654  
Exp. 6-30-03  
STATE OF CALIFORNIA

**EPIC ENGINEERS**  
CIVIL ENGINEERING  
101 E. REDLANDS BOULEVARD  
SUITE 217  
REDLANDS, CA 92373  
TELE 909-792-5699  
FAX 909-792-8699  
EMAIL EPICRCE@AOL.COM

APPROVED BY: [Signature] DATE: 8-10-99

REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
FREDDY IRIANTO  
No. 16104  
Exp. 12/31/03  
STATE OF CALIFORNIA

**IW CONSULTING ENGINEERS, INC.**  
3544 UNIVERSITY AVE. RIVERSIDE, CA  
92501-2929 FAX: 951-687-2999

UNDER THE SUPERVISION OF:  
[Signature]  
FREDDY IRIANTO DATE: 8/10/99

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**

APPROVED BY: [Signature] DATE: 8/10/99

PRINCIPAL ENGINEER  
TRAFFIC DIVISION  
P.W. ENGINEERING MANAGER

**SEWER IMPROVEMENT PLAN**  
TRACT NO. 29097  
CHASE ROAD, BLAKE ROAD  
AND JAKE DRIVE

HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'

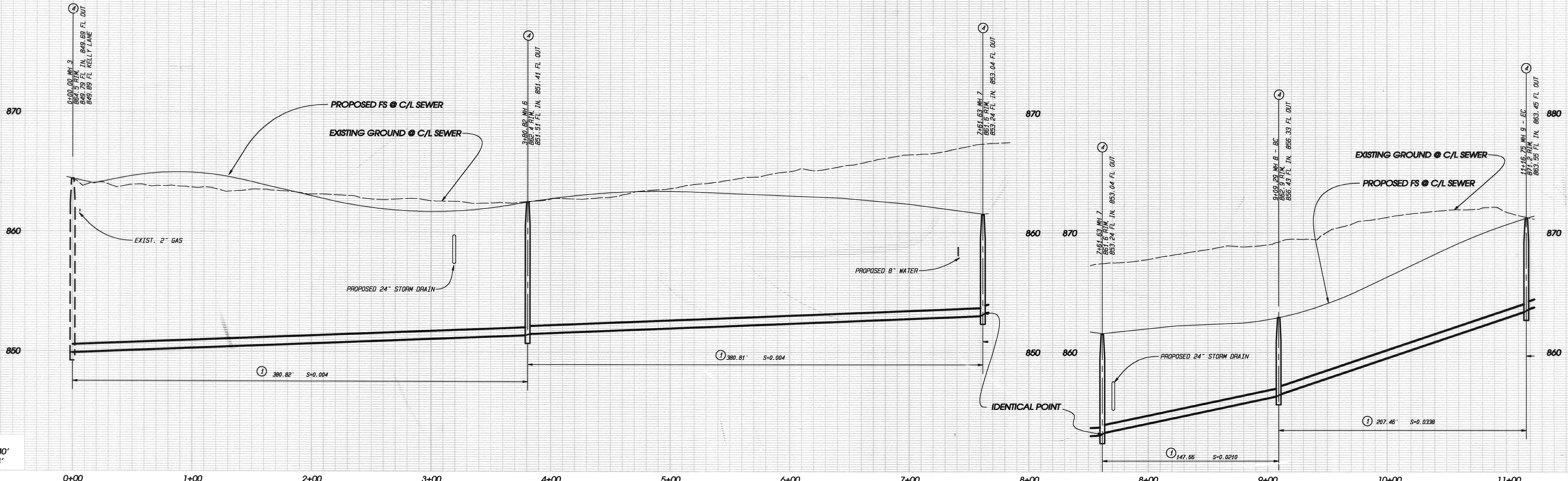
ACCOUNT NO. S-1717  
SHEET 3 OF 5  
EPIC WORK ORDER: 2201

SCALE: 1"=40'

PW07-0926

INDEXED 10-20-99 GFK

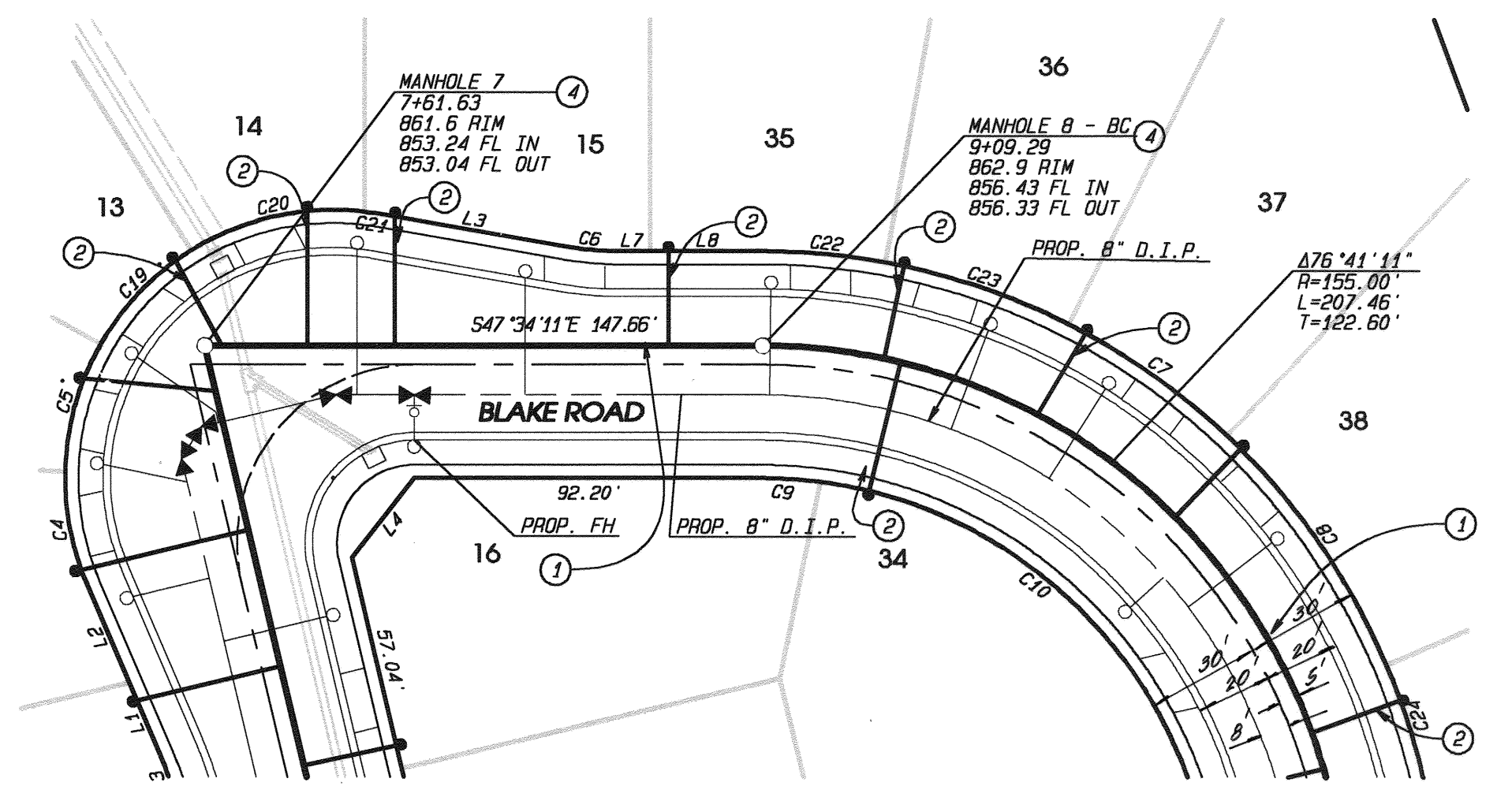
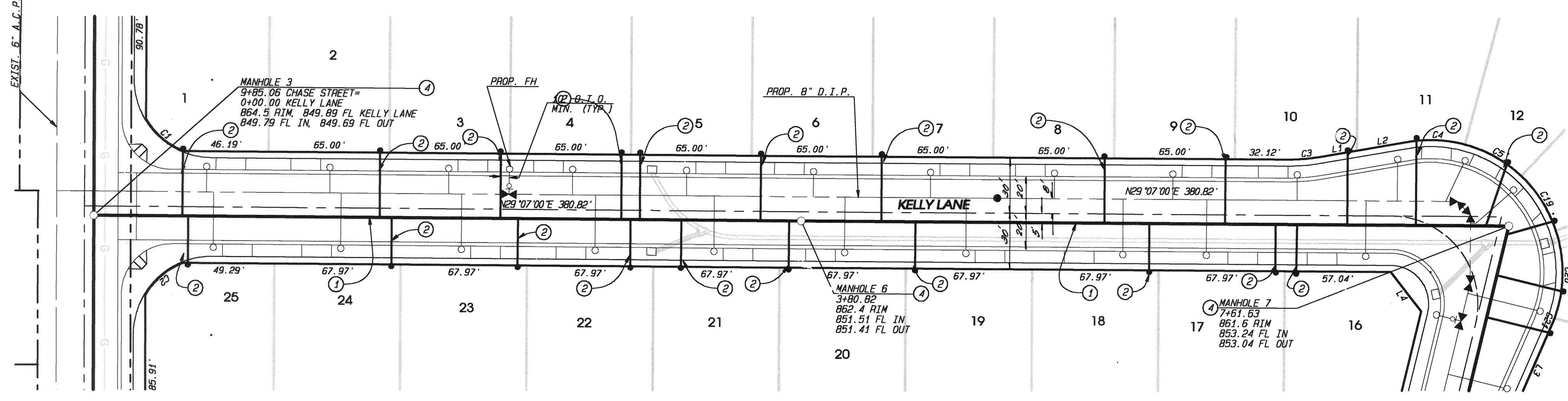




SCALE:  
 HORZ.: 1"=40'  
 VERT.: 1"=4'

NOTE:  
 ALL ASPHALT TO BE REPLACED PER  
 RIVERSIDE COUNTY REQUIREMENTS.

CHASE STREET LINE  
 SEE SHEET 2



**CONSTRUCTION NOTES**

- 1 FURNISH AND INSTALL 8" VCP SEWER MAIN
- 2 FURNISH AND INSTALL 4" VCP SEWER LATERAL WITH CLEANOUT AT R/W PER CITY OF RIVERSIDE STD. 562A
- 3 FURNISH AND INSTALL 4" CLEANOUT PER CITY OF RIVERSIDE STD NO. 560
- 4 FURNISH AND INSTALL MANHOLE PER CITY OF RIVERSIDE STD. NO. 500

**Underground Service Alert**  
 Call: TOLL FREE  
**1-800-227-2600**  
 TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE  
 WATER SYSTEM  
 Richard J. Duda 6/23/99  
 APPROVED BY DATE

CITY OF RIVERSIDE  
 ELECTRIC DEPARTMENT  
 [Signature] 8-20-99  
 APPROVED BY DATE

SO. CA. GAS COMPANY  
 REVIEWED FOR CONFLICTS  
 [Signature] 8/16/99  
 APPROVED BY DATE

CHARTER CABLE  
 REVIEWED FOR CONFLICTS  
 [Signature] 8-17-99  
 APPROVED BY DATE

Prepared By: **EPIC ENGINEERS**  
 CIVIL ENGINEERING  
 101 E. REDLANDS BOULEVARD  
 SUITE 217  
 REDLANDS, CA 92378  
 TELE 909-792-5999  
 FAX 909-792-8999  
 EMAIL EPICRCE@AOL.COM  
 APPROVED BY: [Signature] DATE: 8-18-99  
 Block D. Potter RCE No. 63654

MARK	REVISIONS	APPROVED DATE	APPROVED DATE

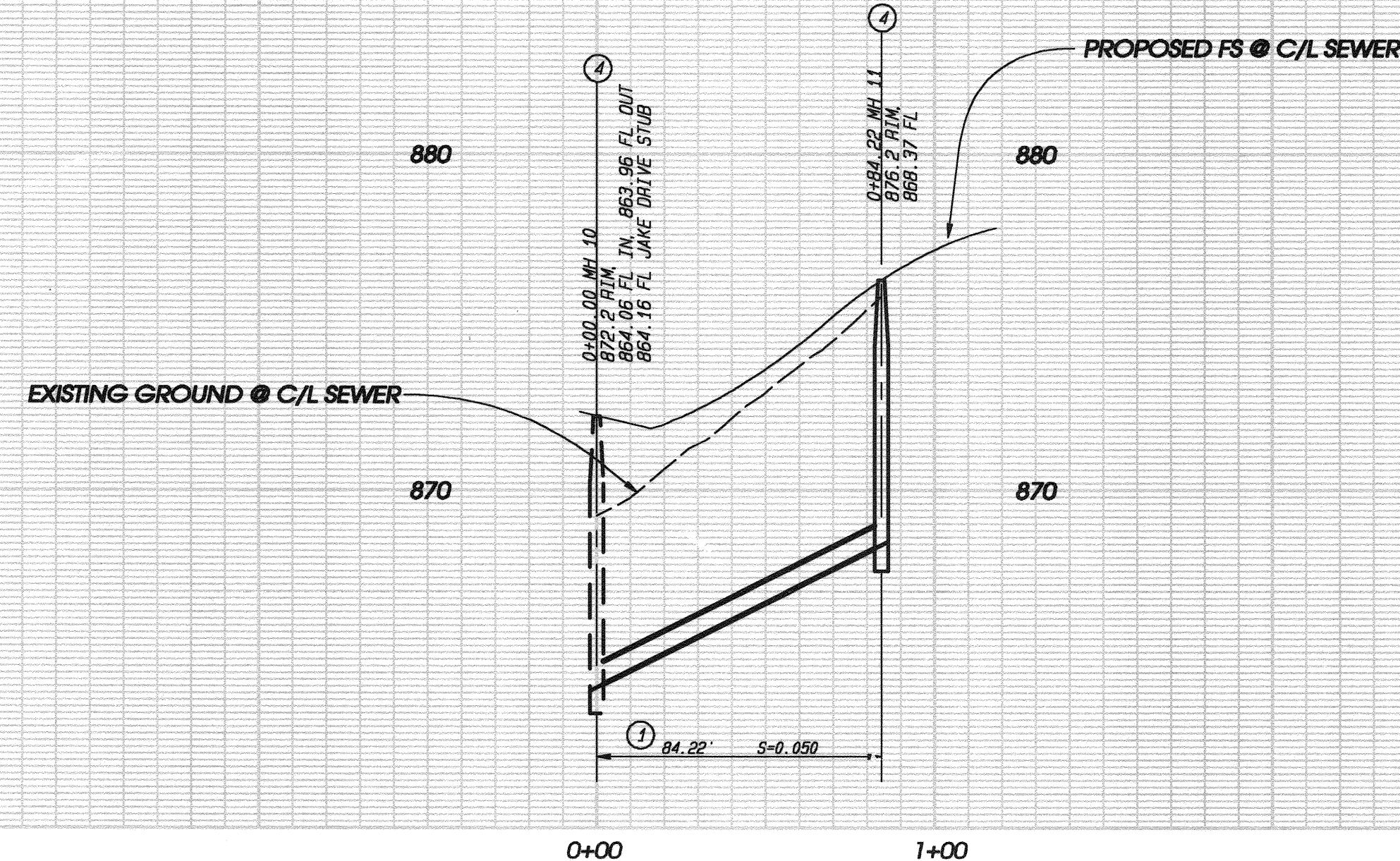
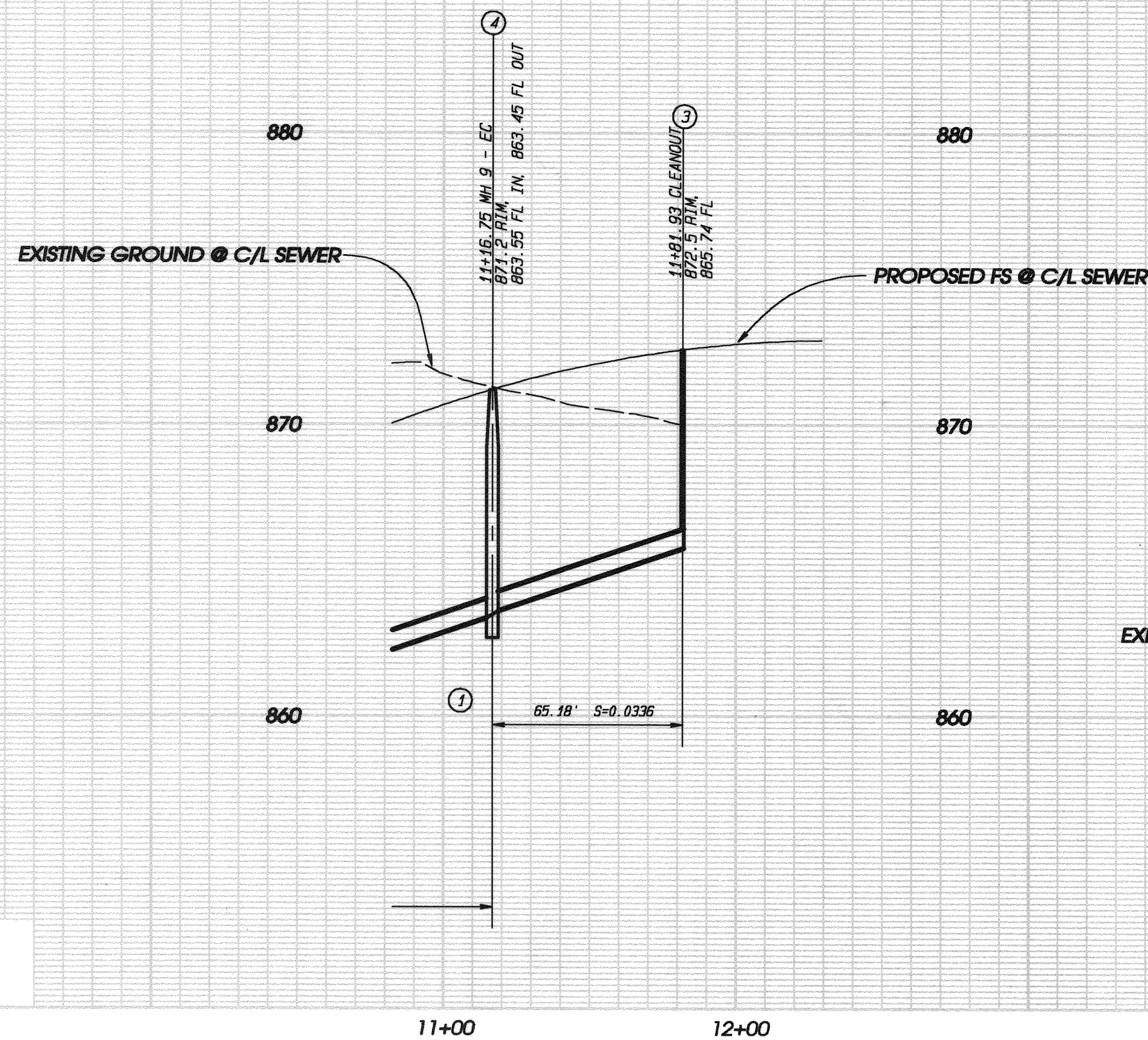
**CITY OF RIVERSIDE  
 PUBLIC WORKS DEPARTMENT**  
 APPROVED BY DATE BY  
 PRINCIPAL ENGINEER 10/4/99 [Signature]  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 P.W. ENGINEERING MANAGER  
 APPROVED BY DATE BY  
 PUBLIC WORKS DIRECTOR  
 [Signature] 10-7-99

**SEWER IMPROVEMENT PLAN**  
 TRACT NO. 29097  
 KELLY LANE  
 AND  
 BLAKE ROAD  
 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'

ACCOUNT NO.  
**S-1717**  
 SHEET **4** OF **5**  
 EPIC WORK ORDER: 2207

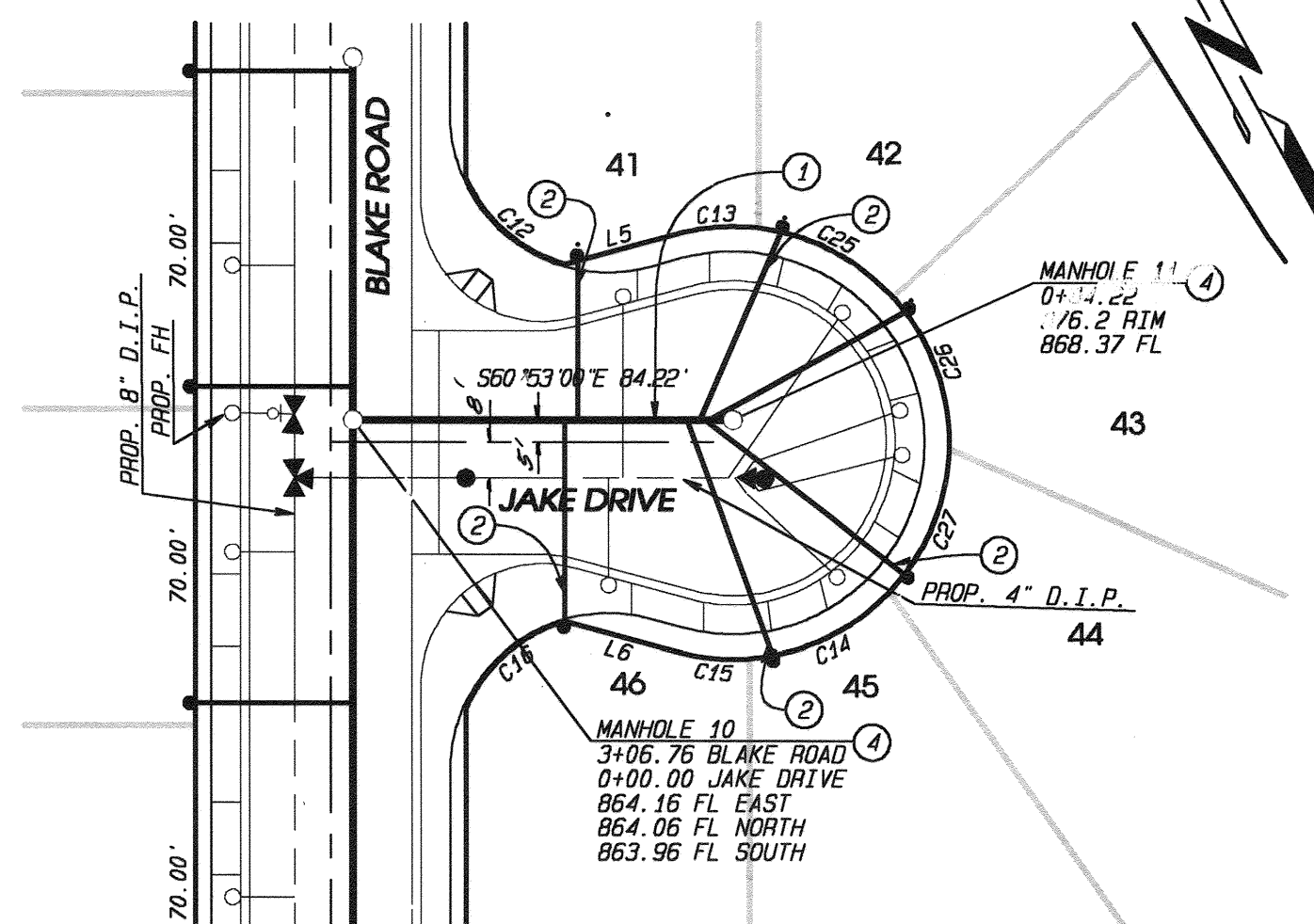
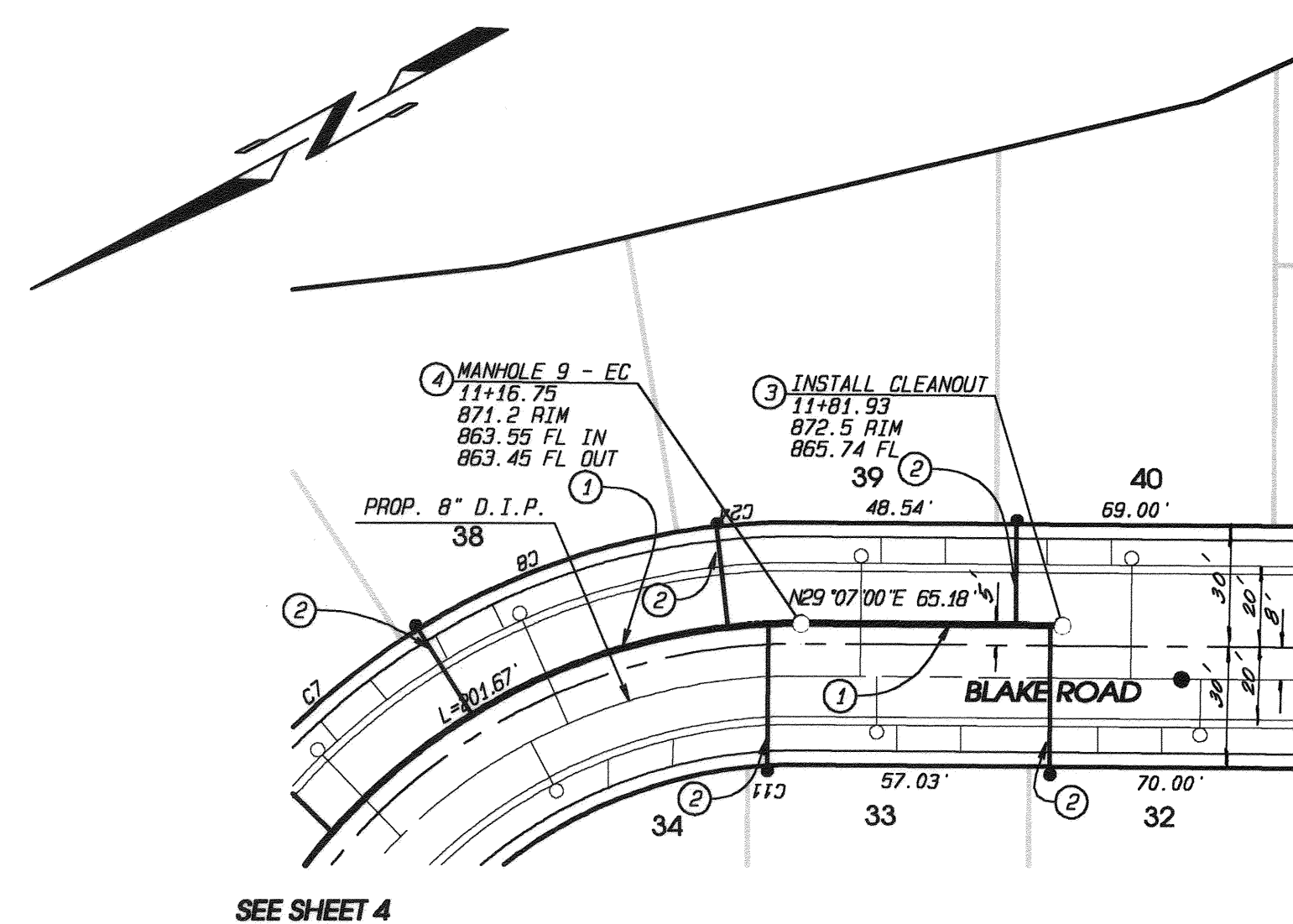
INDEXED 10-20-99 461





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

NOTE:  
ALL ASPHALT TO BE REPLACED PER  
RIVERSIDE COUNTY REQUIREMENTS.



**CONSTRUCTION NOTES**

- ① FURNISH AND INSTALL 8" VCP SEWER MAIN
- ② FURNISH AND INSTALL 4" VCP SEWER LATERAL WITH CLEANOUT AT R/W PER CITY OF RIVERSIDE STD. 562A
- ③ FURNISH AND INSTALL 4" CLEANOUT PER CITY OF RIVERSIDE STD NO. 560
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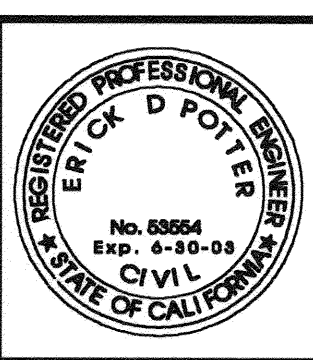
SCALE: 1"=40'

**Underground Service Alert**  
Call: TOLL FREE  
1-800  
227-2600  
TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE WATER SYSTEM  
APPROVED BY: *Richard D. Doherty* 8/23/99  
PAC-BELL TELEPHONE REVIEWED FOR CONFLICTS  
APPROVED BY: *David Nunn* 8/18/99

CITY OF RIVERSIDE ELECTRIC DEPARTMENT  
APPROVED BY: *Sumner* 8-20-99  
SO. CA. GAS COMPANY REVIEWED FOR CONFLICTS  
APPROVED BY: *Paul Conroy* 8/18/99

CHARTER CABLE REVIEWED FOR CONFLICTS  
APPROVED BY: *Gary* 8/18/99



Prepared By: **EPIC ENGINEERS**  
CIVIL ENGINEERING PLANNING  
101 E. REDLANDS BOULEVARD SUITE 217 REDLANDS, CA 92373  
LAND SURVEYING CONSTRUCTION MANAGEMENT  
TELE 909-792-8999 FAX 909-792-8999 EMAIL EPORCE@AOL.COM  
CITY OF RIVERSIDE BUSINESS LICENSE # 0274801 EXPIRES 8/18/00  
APPROVED BY: *Eric D. Potter* RCE No. 63554 DATE:

MARK	REVISIONS	APPROVED	DATE	APPROVED	DATE

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**  
APPROVED BY: *R. M. Smith* DATE: 10-7-99  
PRINCIPAL ENGINEER  
TRAFFIC DIVISION  
P.W. ENGINEERING MANAGER

**SEWER IMPROVEMENT PLAN**  
TRACT NO. 29097  
BLAKE ROAD AND JAKE DRIVE  
HORIZONTAL SCALE: 1"=40' VERTICAL SCALE: 1"=4'

ACCOUNT NO. S-1717  
SHEET 5 OF 5  
EPIC WORK ORDER: 2201

INDEXED 10-20-99 4H

pw07-0926