

IN THE CITY OF RIVERSIDE, CALIFORNIA  
**SEWER IMPROVEMENT PLANS**  
 MAGNOLIA AVENUE

**GENERAL NOTES**

- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-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.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 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.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 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.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.) 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 THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
- 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.
- CONTRACTOR IS TO VERIFY EXISTING SEWER LOCATION AND ELEVATION PRIOR TO START OF CONSTRUCTION.
- A PLUG IS TO 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.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.

**NOTICE TO CONTRACTOR**

THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY - NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS PROVIDED BY THESE MEMBER AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

CALL UNDERGROUND SERVICE ALERT (U.S.A.) 1-800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**ENGINEER'S NOTES**

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY OF DESIGN AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PRIVATE ENGINEER FOR CLARIFICATION. THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

PRIVATE ENGINEER WILL NOT BE PROVIDING INSPECTION SERVICES OR CONSTRUCTION REVIEW. THESE FUNCTIONS ARE THE RESPONSIBILITY OF THE CITY AND/OR THE GENERAL CONTRACTOR. ENGINEER ACCEPTS NO LIABILITY FOR SUCH FUNCTIONS OR WORK THEREOF.

**ABBREVIATIONS**

- TC - TOP OF CURB
- IE - INVERT ELEVATION
- R/W - RIGHT OF WAY
- MH - MANHOLE

**LEGEND**

- PROPOSED SEWER MAIN AND MH
- EXIST SEWER MAIN
- EXIST WATER MAIN

**WORK TO BE DONE**

THESE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT CITY OF RIVERSIDE STANDARDS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK").

**PRIVATE ENGINEER'S NOTE 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 CONTRACTOR'S AND SUBCONTRACTOR'S 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 CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

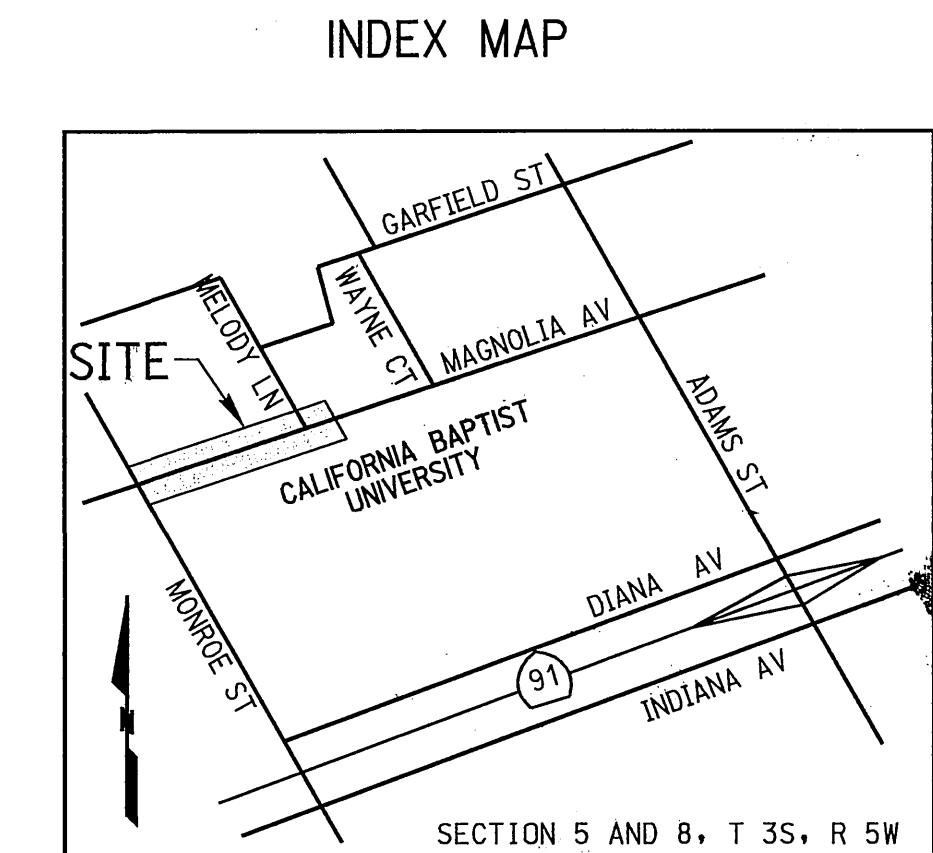
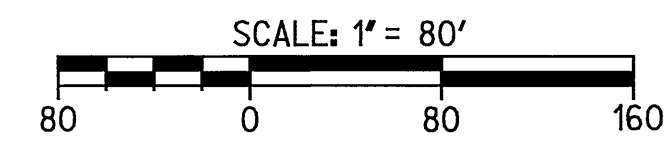
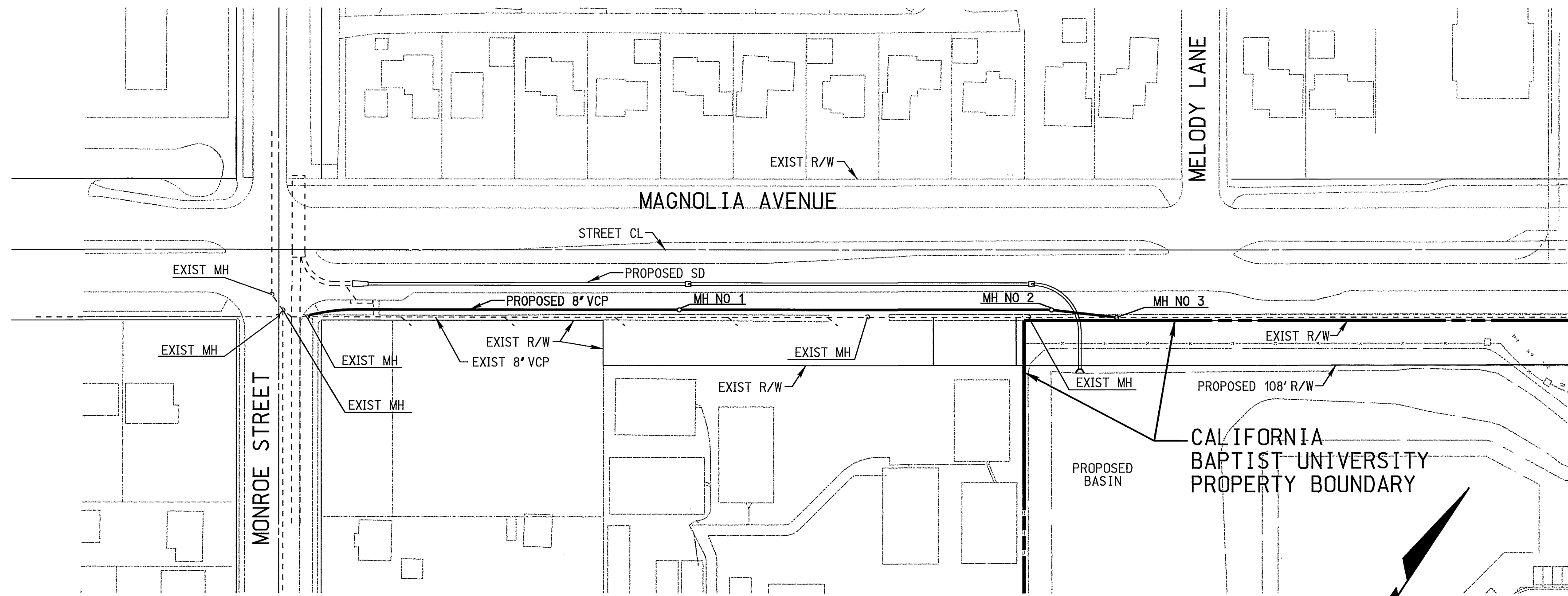
THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. 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.

**CIVIL ENGINEER**

RICK ENGINEERING CO.  
 1223 UNIVERSITY AVENUE, SUITE 240  
 RIVERSIDE, CA 92507  
 ATTN: MARTEN L. ANDERSON, RCE  
 (909) 782-0707

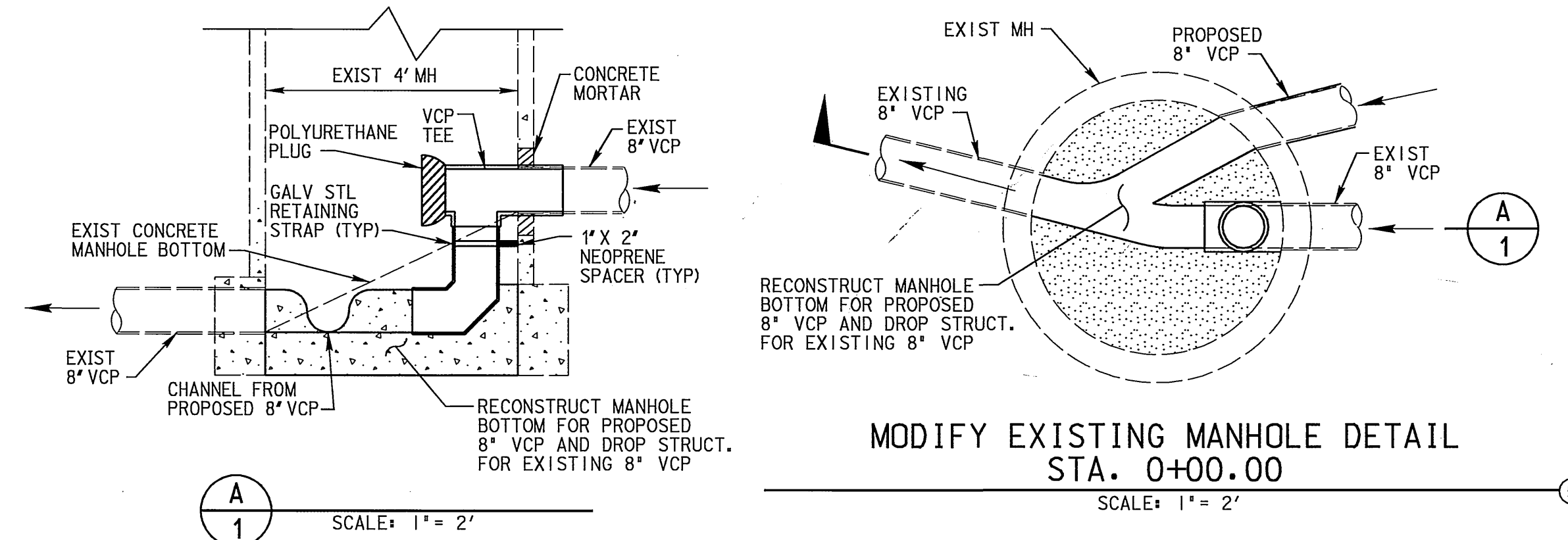
**GEOTECHNICAL ENGINEER**

JOHN R. BYERLY, INC.  
 2257 SOUTH LILAC AVE.  
 BLOOMINGTON, CA 92316-2907  
 ATTN: GLENN S. FRASER  
 (909) 783-1910



**VICINITY MAP**

N.T.S.



**CONSTRUCTION NOTES AND QUANTITIES**

- INSTALL 8" VCP SEWER MAIN, PIPE BEDDING PER CITY OF RIV STD 452 (CASE 1) ..... 760 LF
- INSTALL BRICK AND MORTAR PLUG IN UPSTREAM END OF MH ..... 1 EA
- INSTALL SEWER MANHOLE PER CITY OF RIV STD 500 ..... 2 EA
- INSTALL MODIFIED DROP MANHOLE PER CITY OF RIV STD 503 (SEE DETAIL ON SHEET 2) ..... 1 EA
- MODIFY EXISTING MANHOLE TO BE A MODIFIED DROP MANHOLE PER CITY OF RIV STD 503 (SEE DETAIL THIS SHEET) ..... 1 EA
- CONSTRUCT CONCRETE ENCASEMENT PER CITY OF RIVERSIDE P. U. D. STD. C.W.D.-023 AND -024 ..... 9 LF

**CITY OF RIVERSIDE**  
 PUBLIC UTILITIES DEPARTMENT  
 ELECTRIC OVERHEAD AND UNDERGROUND  
 FOR NON-INTERFERENCE COMPLIANCE  
 APPROVED BY: [Signature] DATE: 12/29/02

**CITY OF RIVERSIDE (SHEETS 1 AND 2)**  
 PUBLIC UTILITIES DEPARTMENT  
 WATER DIVISION  
 FOR NON-INTERFERENCE COMPLIANCE  
 APPROVED BY: [Signature] DATE: 12/26/02

\*AS-BUILT PER PLANS 9-27-05 L/H

**DIG ALERT**  
 CALL BEFORE YOU DIG!  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT  
 Call at least 2 working days prior to excavating.

REGISTERED PROFESSIONAL ENGINEER  
 ROBERT A. STOCKTON  
 No. C033591  
 Exp. 6-30-06  
 CIVIL  
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
 ROBERT A. STOCKTON  
 REGISTERED CIVIL ENGINEER NO. 33591  
 EXPIRATION DATE 6-30-06

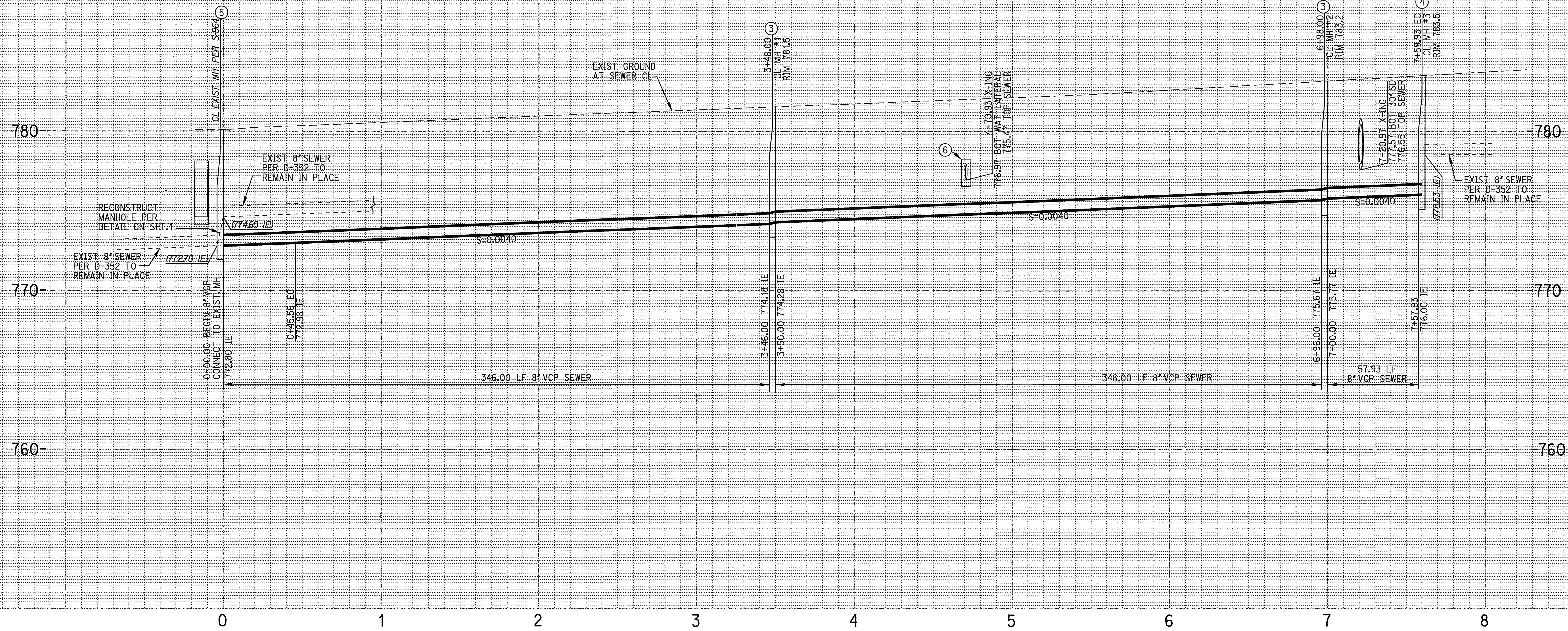
**RICK ENGINEERING COMPANY**  
 San Diego Riverside Orange Phoenix Tucson  
 1223 University Ave., Ste. 240 • Riverside, CA 92507-3418 • (909) 782-0707 • FAX (909) 782-0723 • www.rickeng.com  
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/20/03

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature] DATE: 2/5/03

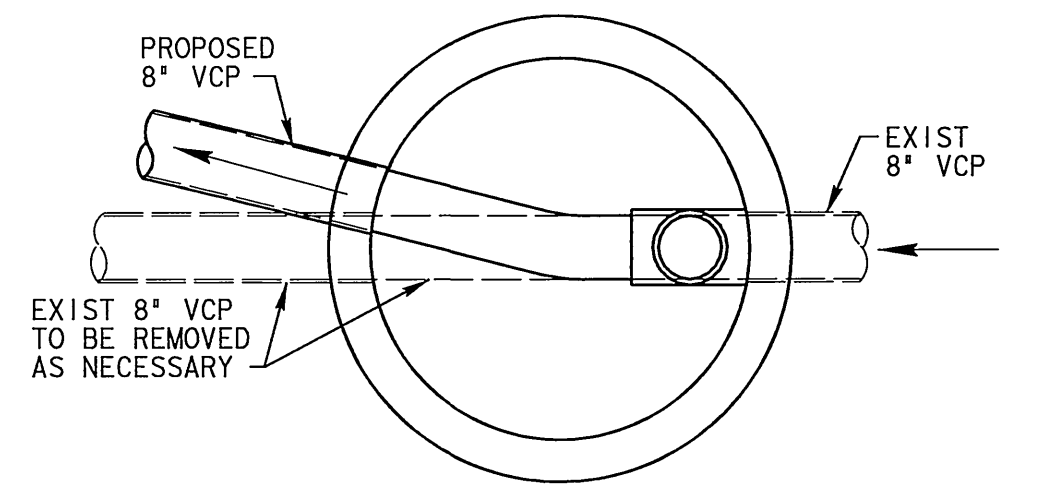
**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature] DATE: 2/5/03

**SEWER IMPROVEMENT PLANS**  
 CU-027-667  
 MAGNOLIA AVENUE  
 TITLE SHEET

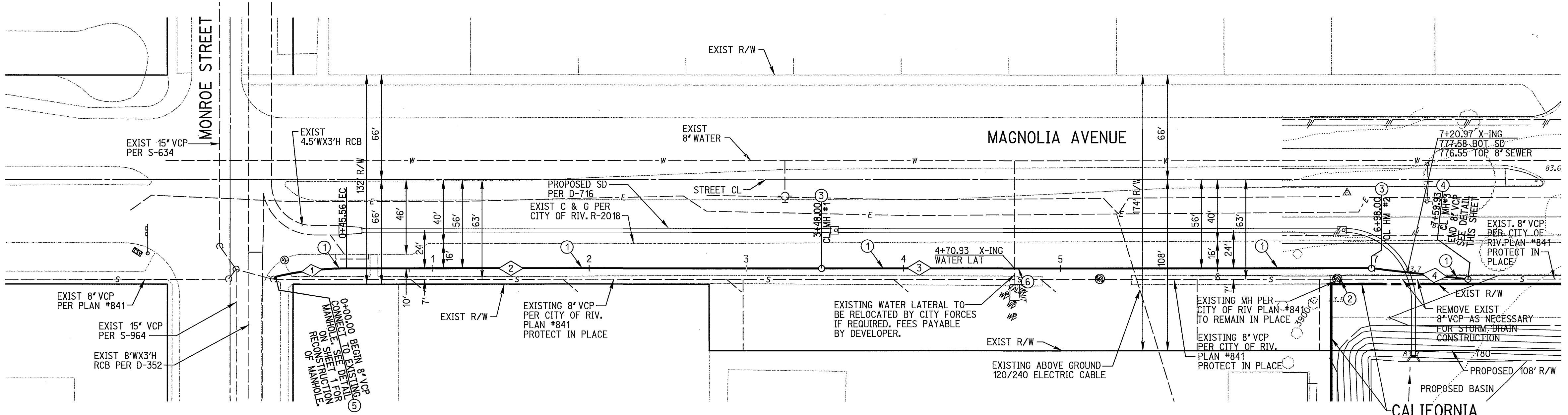
PROJECT NO. S-1780  
 SHEET 1 OF 2  
 FILE NO.



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



MODIFIED DROP MANHOLE DETAIL  
 AT STA. 7+59.93  
 SCALE: 1"= 2'



SEWER DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
1	13° 31' 26"	193.00'	45.56'	
2	N 56° 23' 16" E		302.44'	
3	N 56° 23' 16" E		350.00'	
4	N 62° 52' 49" E		61.93'	

- CONSTRUCTION NOTES**
- INSTALL 8" VCP SEWER MAIN, PIPE BEDDING PER CITY OF RIV STD 452 (CASE 1).
  - INSTALL BRICK AND MORTAR PLUG IN UPSTREAM END OF MANHOLE.
  - INSTALL SEWER MANHOLE PER CITY OF RIV STD 500.
  - INSTALL MODIFIED DROP MANHOLE PER CITY OF RIV STD 503 (SEE DETAIL ON THIS SHEET).
  - MODIFY EXISTING MANHOLE TO BE A MODIFIED DROP MANHOLE PER CITY OF RIV STD 503 (SEE DETAIL ON SHEET 1).
  - CONSTRUCT CONCRETE ENCASEMENT PER CITY OF RIVERSIDE P. U. D. STD. C. W. D. -023 AND -024.

**CAUTION:**  
 EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

**DIG ALERT**

CALL BEFORE YOU DIG!

1-800-227-2600  
 UNDERGROUND SERVICE ALERT  
 Call at least 2 working days prior to excavating.

REGISTERED PROFESSIONAL ENGINEER  
 ROBERT A. STOCKTON  
 No. C03359  
 Exp. 6-30-06  
 CIVIL  
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
 ROBERT A. STOCKTON  
 REGISTERED CIVIL ENGINEER NO. 33591  
 EXPIRATION DATE 6-30-06

**RICK ENGINEERING COMPANY**

San Diego Riverside Orange Phoenix Tucson  
 1223 University Ave., Ste. 240 • Riverside, CA 92507-3418 • (909)783-0707 • FAX (909)783-0723 • www.rickeng.com  
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/20/03

BENCH MARK:  
 CITY OF RIVERSIDE BENCHMARK G5-A2, ELEVATION=797.89'. BRASS DISK STAMPED "G5-A" IN A MONUMENT WELL AT THE INTERSECTION OF ADAMS STREET AND MAGNOLIA AVENUE.

DESIGNED BY SS DRAWN BY SS CHECKED BY MLA

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY  
 DATE 2/5/03

**SEWER IMPROVEMENT PLANS**  
 CU-027-667  
 MAGNOLIA AVENUE  
 0+00.00 TO 7+59.93

PROJECT NO.  
 S-1780  
 SHEET 2 OF 2  
 FILE NO.

