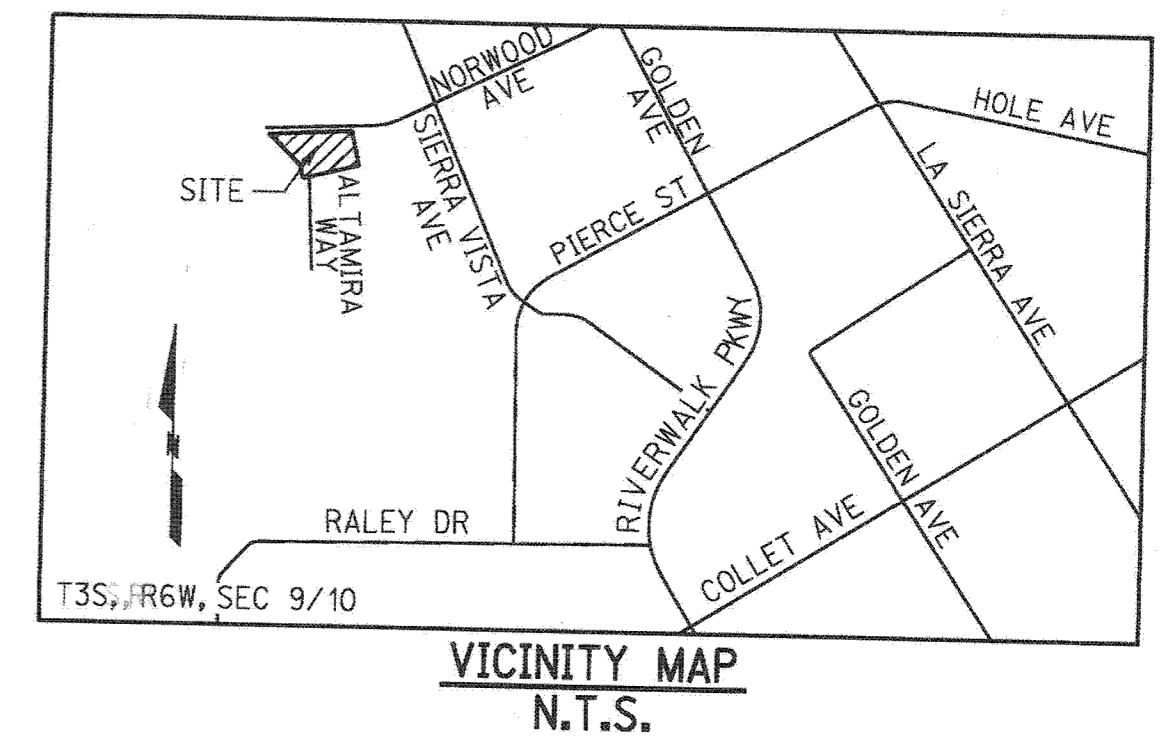


# IN THE CITY OF RIVERSIDE, CALIFORNIA

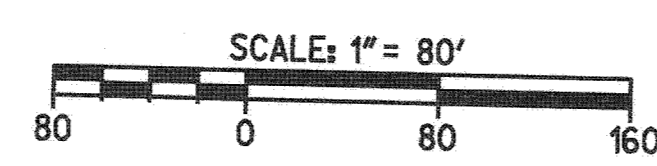
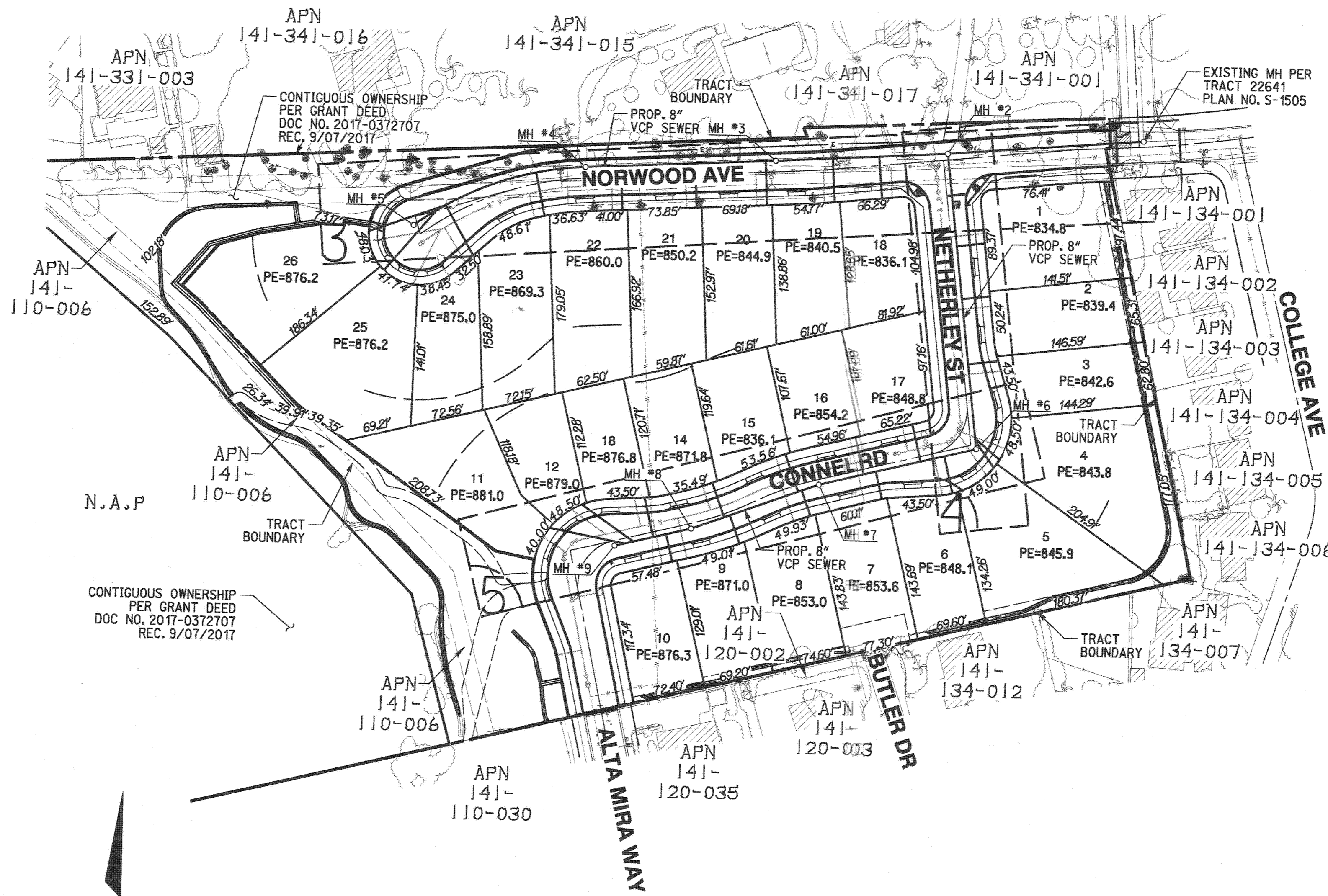
# SEWER IMPROVEMENT PLANS

## RIVERSIDE 26



### GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. WHEN A PORTION OF THE WORK IS TO BE DONE BY THE CITY, THE DEVELOPER AND/OR CONTRACTOR SHALL GIVE THE CITY 60-DAYS NOTICE SO THAT THE DEVELOPER'S WORK AND THE CITY'S WORK CAN BE PROPERLY COORDINATED. THE DEVELOPER SHALL PREPARE AND COMPACT THE SUBGRADE TO ELEVATIONS WITHIN  $\pm .1'$  OF THE DESIGN ELEVATIONS AND SHALL BE RESPONSIBLE FOR THE CONDITION OF THE SUBGRADE UNTIL ACCEPTED BY THE CITY. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR ANY BARRICADING DURING THIS TIME.
7. THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT 30 DAYS PRIOR TO BEGINNING CONSTRUCTION TO NEGOTIATE THE COST OF THE CITY'S PORTION OF THE WORK.
8. 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.
9. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
10. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
11. THE SUBDIVIDER SHALL ARRANGE FOR A SOIL TEST TO BE MADE BY A SOILS ENGINEER AFTER THE STREETS HAVE BEEN PREPARED TO ROUGH GRADE AND PRIOR TO CURB AND GUTTER CONSTRUCTION. DEPTH OF BASE MATERIAL AND A.C. PAVING SHALL BE DETERMINED BY THE CITY OF RIVERSIDE DESIGN STANDARDS AND TEST PROCEDURES. (FOR TRACTS ONLY - SEE CHECK LIST ITEM 25 FOR OTHER PLANS.)
12. THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE STREET DIVISION (351-6127) TO PICK UP ANY EXISTING STD. 180 BARRICADES THAT ARE BEING REMOVED. THE CITY'S INSPECTOR WILL MAKE THE FINAL DETERMINATION ON REV. (05/04/2011) WHETHER A BARRICADE CAN BE RELOCATED.
13. ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
14. STREET OPENING PERMIT FOR CONSTRUCTION AND/OR MODIFICATION OF TRAFFIC SIGNAL FACILITIES IS REQUIRED.
15. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 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.
16. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
17. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
18. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
19. 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.
20. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
21. PIPES JOINTS FOR VITRIFIED CLAY PIPE SHALL BE TYPE "G" AS SPECIFIED IN SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS. IF PLASTIC PIPE IS ALLOWED AS AN ALTERNATIVE, ALL PIPE JOINTS SHALL BE GASKETED. CEMENTED JOINTS SHALL NOT BE ALLOWED.
22. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR PERFORMING A VIDEO INSPECTION OF ALL NEW SEWER FACILITIES TO BE PUBLICLY OWNED AND MAINTAINED PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE VIDEO INSPECTION MUST BE PERFORMED IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR. A RECORDING OF THE VIDEO INSPECTION MUST BE SUBMITTED TO THE CITY FOR REVIEW AND ACCEPTANCE.
23. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
24. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.



### 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, THE CURRENT CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT WATER DIVISION STANDARDS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION ("GREEN BOOK").

### PRIVATE ENGINEER'S NOTE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN 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 HERE ON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

### ENGINEER'S NOTES

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.

### OWNER/DEVELOPER

FRONTIER ENTERPRISES  
8300 UTICHA AVENUE, SUITE 300  
RANCHO CUCAMONGA, CA 91730  
ATTN: JIM PREVITI  
(909) 354-8000

### CIVIL ENGINEER

RICK ENGINEERING COMPANY  
1770 IOWA AVENUE, SUITE 100  
RIVERSIDE, CA 92507  
ATTN: RICHARD CARL O'NEILL  
(951) 782-0707

### BASIS OF BEARING

THE CENTERLINE OF NORWOOD BETWEEN SIERRA VISTA AVE. AND GOLDEN AVE., BEING N63°27'00"E. PER MB 7 / 66, RIV COUNTY

### BENCHMARK

CITY OF RIVERSIDE BM DESIGNATION G1-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. LY CORNER OF A CATCH BASIN ALONG THE W. LY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

### SHEET INDEX

TITLE SHEET	1
DETAIL SHEET	2-5
PLAN AND PROFILE	3-5

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

CITY OF RIVERSIDE  
PUBLIC UTILITIES DEPARTMENT  
WATER DIVISION

APPROVED BY: *[Signature]* DATE: 10/19/2017

APPROVED BY: *[Signature]* DATE: 10/19/2017

CITY OF RIVERSIDE  
PUBLIC UTILITIES DEPARTMENT  
OVERHEAD & UNDERGROUND

APPROVED BY: *[Signature]* DATE: 10/19/17

PREPARED UNDER THE DIRECTION OF

RICHARD CARL O'NEILL  
REGISTERED CIVIL ENGINEER NO. 53285  
DATE: 10/16/17

**RICK ENGINEERING COMPANY**  
1770 IOWA AVENUE - SUITE 100  
RIVERSIDE, CA 92507  
951.782.0707  
(FAX) 951.782.0723

CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18

BENCH MARK:  
CITY OF RIVERSIDE BM DESIGNATION G1-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. LY CORNER OF A CATCH BASIN ALONG THE W. LY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

DESIGNED BY: ROG	DRAWN BY: ROG	CHECKED BY: RCO
APPROVED BY: <i>[Signature]</i>	DATE: 10/31/17	CITY ENGINEER

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 10/31/17

APPROVED BY: *[Signature]* DATE: 10/31/17

SEWER IMPROVEMENT PLAN  
TRACT 32476  
RIVERSIDE 26  
TITLE SHEET

PW17-0312  
S-2149

SHEET 1 OF 5

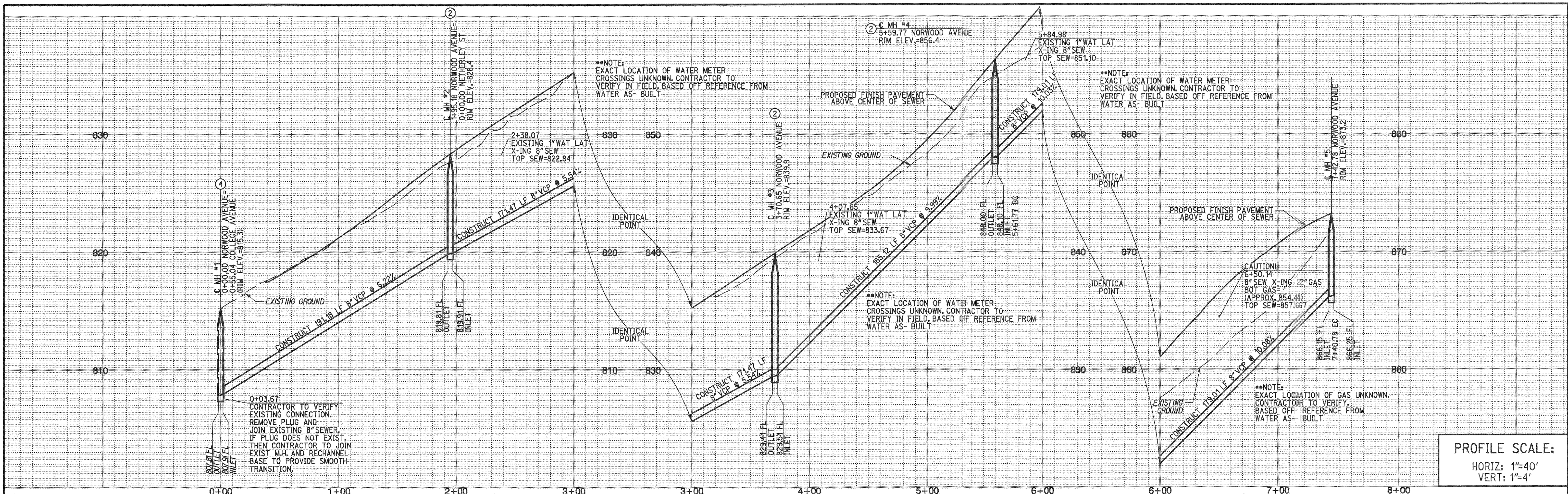
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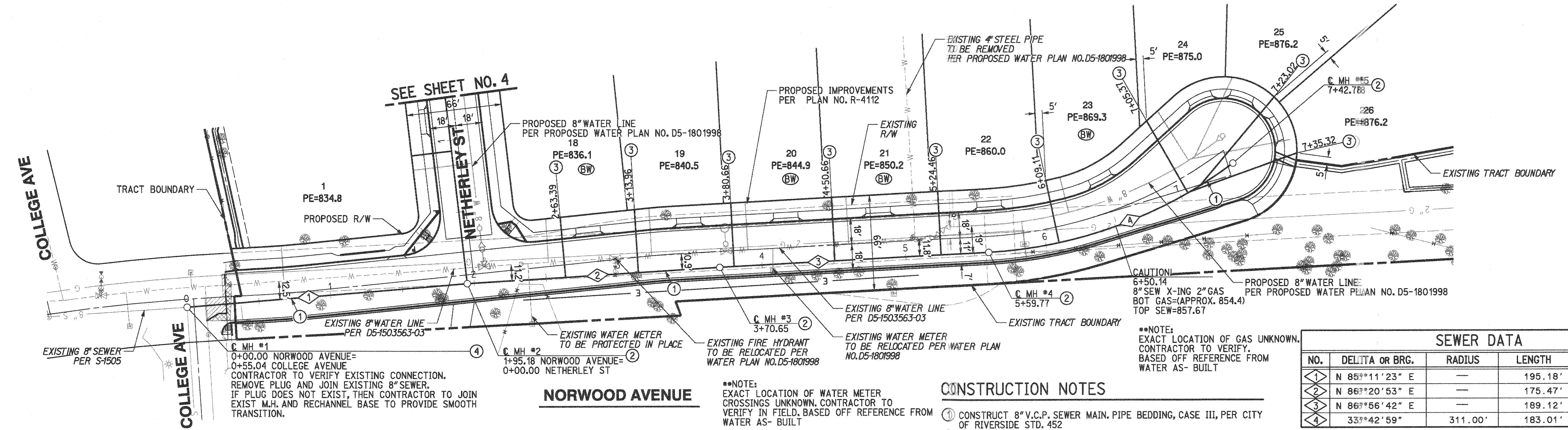






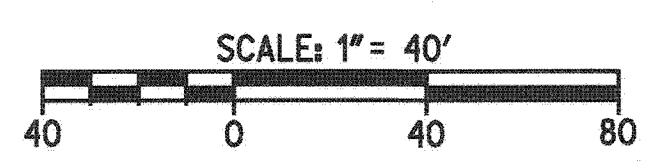


PROFILE SCALE:  
 HORIZ: 1"=40'  
 VERT: 1"=4'



SEWER DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	TANGENT
1	N 85°11'23" E	—	195.18'	—
2	N 86°20'53" E	—	175.47'	—
3	N 86°56'42" E	—	189.12'	—
4	33°42'59"	311.00'	183.01'	94.24'

- CONSTRUCTION NOTES**
- CONSTRUCT 8" V.C.P. SEWER MAIN, PIPE BEDDING, CASE III, PER CITY OF RIVERSIDE STD. 452
  - CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
  - CONSTRUCT LATERALS PER CITY OF RIVERSIDE STD. 562
  - REMOVE PLUG AND JOIN EXISTING 8" SEWER. IF PLUG DOES NOT EXIST, THEN CONTRACTOR TO JOIN EXIST M.H. AND RECHANNEL BASE TO PROVIDE SMOOTH TRANSITION.



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**811**  
 Know what's below.  
 Call before you dig.  
 Call at least 2 working days prior to excavating.

REGISTERED PROFESSIONAL ENGINEER  
 RICHARD CARL O'NEILL  
 No. 63285  
 Exp. 8-30-18  
 CIVIL  
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
 RICHARD CARL O'NEILL  
 REGISTERED CIVIL ENGINEER NO. 63285

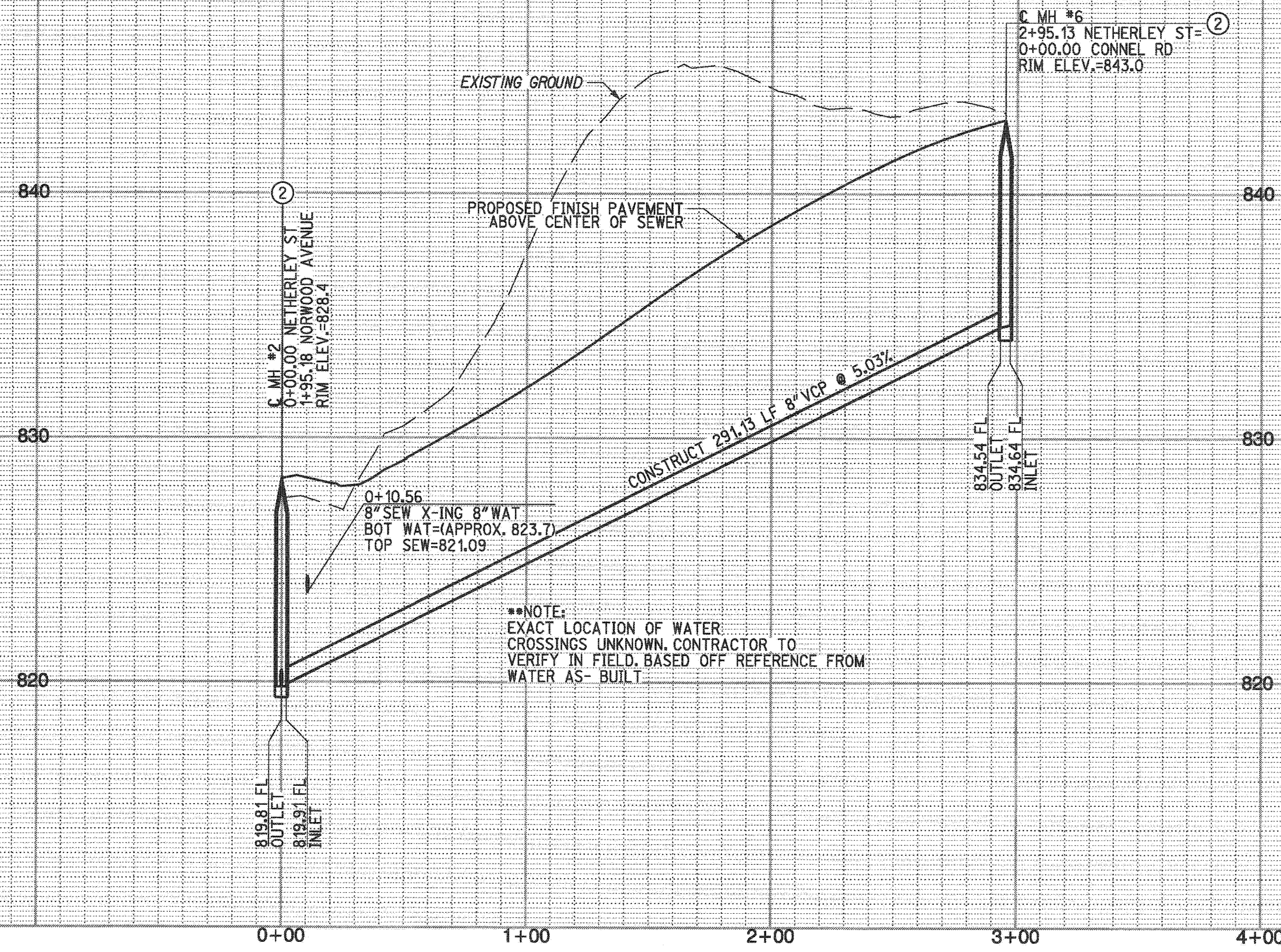
**RICK**  
 ENGINEERING COMPANY  
 1770 IOWA AVENUE - SUITE 100  
 RIVERSIDE, CA 92507  
 951.782.0707  
 (FAX) 951.782.0723  
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18  
 BENCH MARK:  
 CITY OF RIVERSIDE BM DESIGNATION 61-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE WLY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

MARK BY DATE REVISIONS  
 DESIGNED BY: RCG DRAWN BY: RCG CHECKED BY: RCG

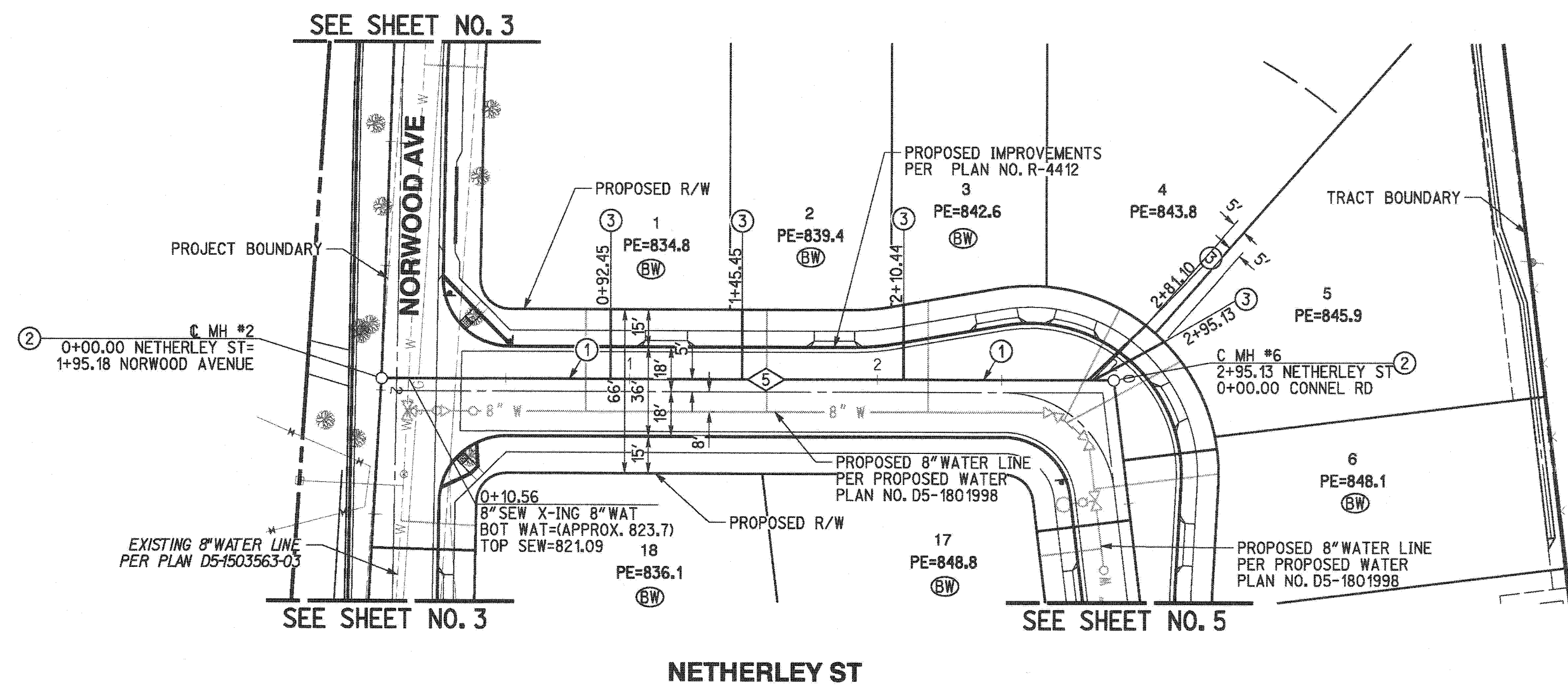
**CITY OF RIVERSIDE, CALIFORNIA**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature]  
 BY: T.S. DATE: 10/31/17  
 CITY ENGINEER

**SEWER IMPROVEMENT PLAN** PW17-0312  
 TRACT 32476  
 RIVERSIDE 26  
 NORWOOD AVE  
 PLAN AND PROFILE  
 S-2149  
 SHEET 3 OF 5  
 SCALE: HORIZ: 1"=40' VERT: 1"=4'  
 PLOT DATE: 16-OCT-2017 JUN 17973





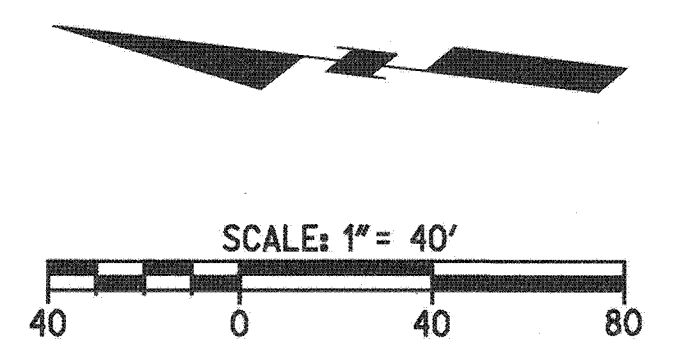
PROFILE SCALE:  
HORIZ: 1"=40'  
VERT: 1"=4'



CONSTRUCTION NOTES

- ① CONSTRUCT 8" V.C.P. SEWER MAIN. PIPE BEDDING, CASE III, PPER CITY OF RIVERSIDE STD. 452
- ② CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 5500
- ③ CONSTRUCT LATERALS PER CITY OF RIVERSIDE STD. 562

SEWER DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	TANGENT
⑤	N 6°48'14" W	—	295.13'	—



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REGISTERED PROFESSIONAL ENGINEER  
RICHARD CARL O'NEILL  
No. 63285  
Exp. 8-30-18  
CIVIL  
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
RICHARD CARL O'NEILL  
REGISTERED CIVIL ENGINEER NO. 63285  
DATE 10/27/17

**RICK**  
ENGINEERING COMPANY  
1770 IOWA AVENUE - SUITE 100  
RIVERSIDE, CA 92507  
951-782-0707  
FAX 951-782-0723  
rickengineering.com  
San Diego - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoenix - Tucson

CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18

BENCH MARK:  
CITY OF RIVERSIDE BM DESIGNATION G1-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE W'LY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

MARK	BY	DATE	REVISIONS	APPR. DATE	CITY
DESIGNED BY	ROG				
DRAWN BY	ROG				
CHECKED BY	ROG				

**CITY OF RIVERSIDE, CALIFORNIA**  
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	T.M.	10/27/17	[Signature]
CONST. CONTRACT ADMIN.			
SURVEY SERVICES			
SUPERVISOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			
DATE	10/27/17		

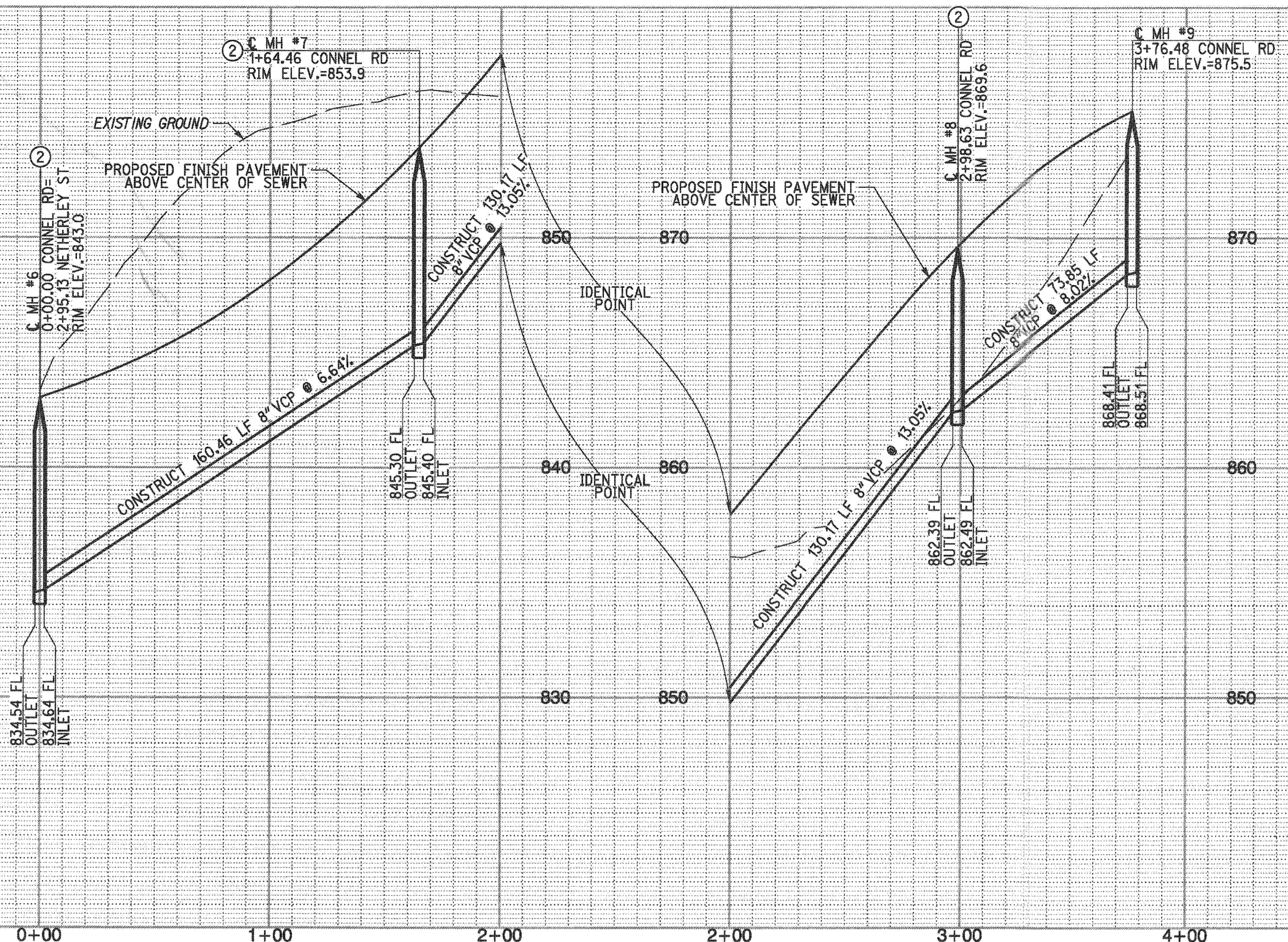
SEWER IMPROVEMENT PLAN  
TRACT 32476  
RIVERSIDE 26  
NETHERLEY ST  
PLAN AND PROFILE

PW17-0312  
S-2149  
SHEET 4 OF 5  
FILE NO.

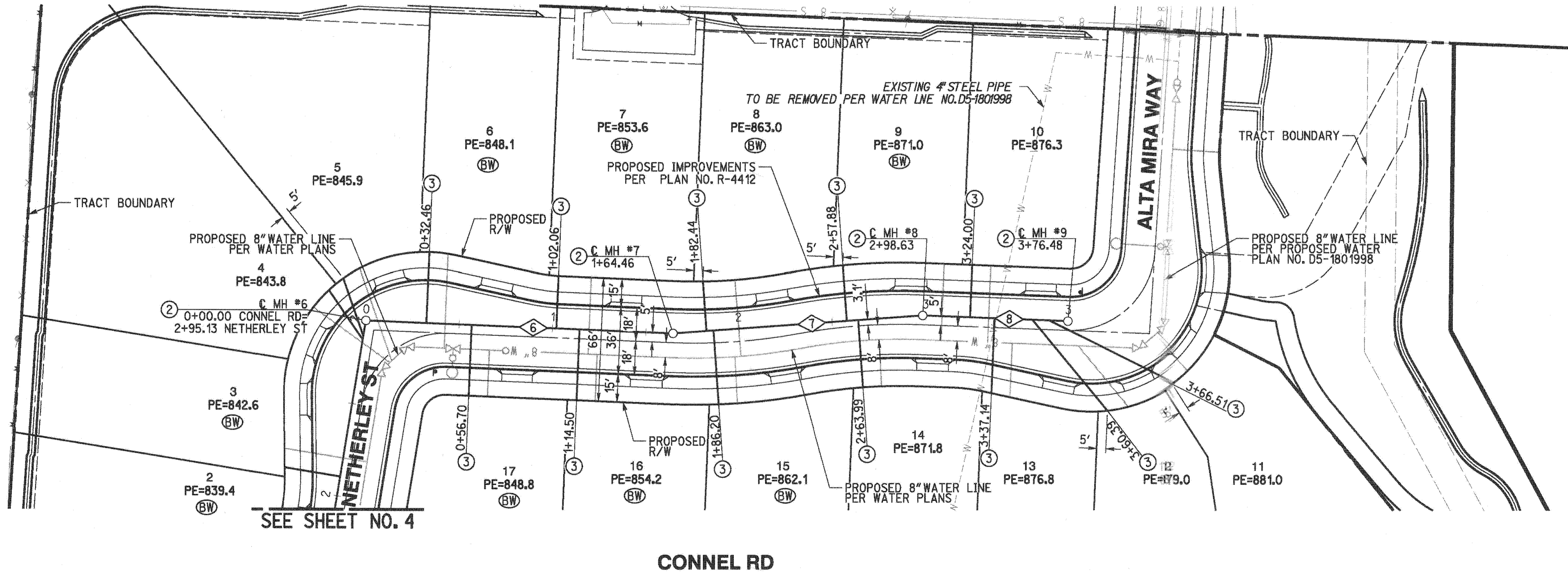
SCALE  
HORIZ: 1"=40' VERT: 1"=4'

PLOT DATE: 16-OCT-2017 JUN 17973



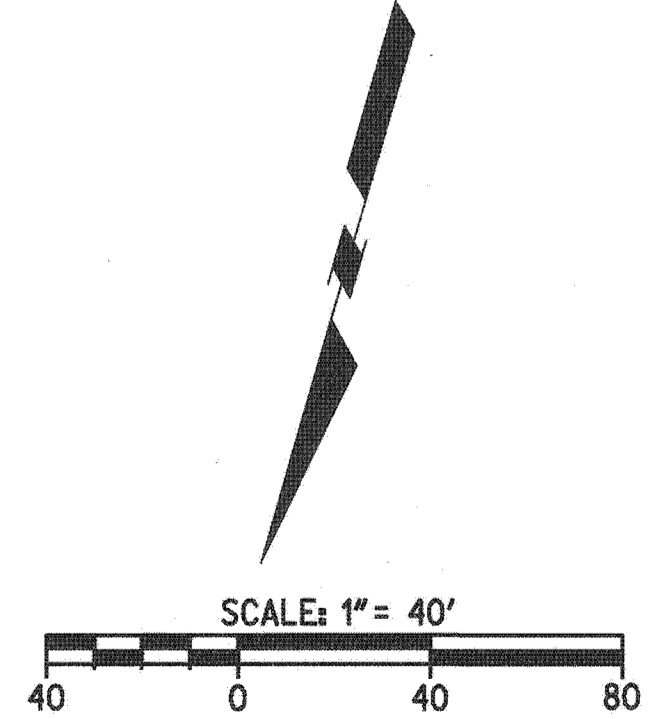


PROFILE SCALE:  
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- 1 CONSTRUCT 8" V.C.P. SEWER MAIN PIPE BEDDING, CASE III, PER CITY OF RIVERSIDE STD. 452
  - 2 CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. 500
  - 3 CONSTRUCT LATERALS PER CITY OF RIVERSIDE STD. 562

SEWER DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	TANGENT
6	N 76°15'15" E	—	164.46'	—
7	N 69°50'06" E	—	134.16'	—
8	N 76°15'15" E	—	77.85'	—



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 RICHARD CARL O'NEILL  
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 DATE 10/31/17

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 RIVERSIDE, CA 92507  
 951-782-0707  
 (FAX) 951-782-0723  
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18

MARK	BY	DATE	REVISIONS

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE	APPROVED BY
	T.H.	10/31/17	
CONSTR. CONTRACT ADMIN.			
SURVEY SERVICES			
TRAFFIC DIVISION			
PARKS DEPARTMENT			

**SEWER IMPROVEMENT PLAN**  
 TRACT 32476  
 RIVERSIDE 26  
 CONNELL RD  
 PLAN AND PROFILE

PW17-0312  
 S-2149  
 SHEET 5 OF 5  
 FILE NO.