

IN THE CITY OF RIVERSIDE, CALIFORNIA

SEWER IMPROVEMENT PLAN

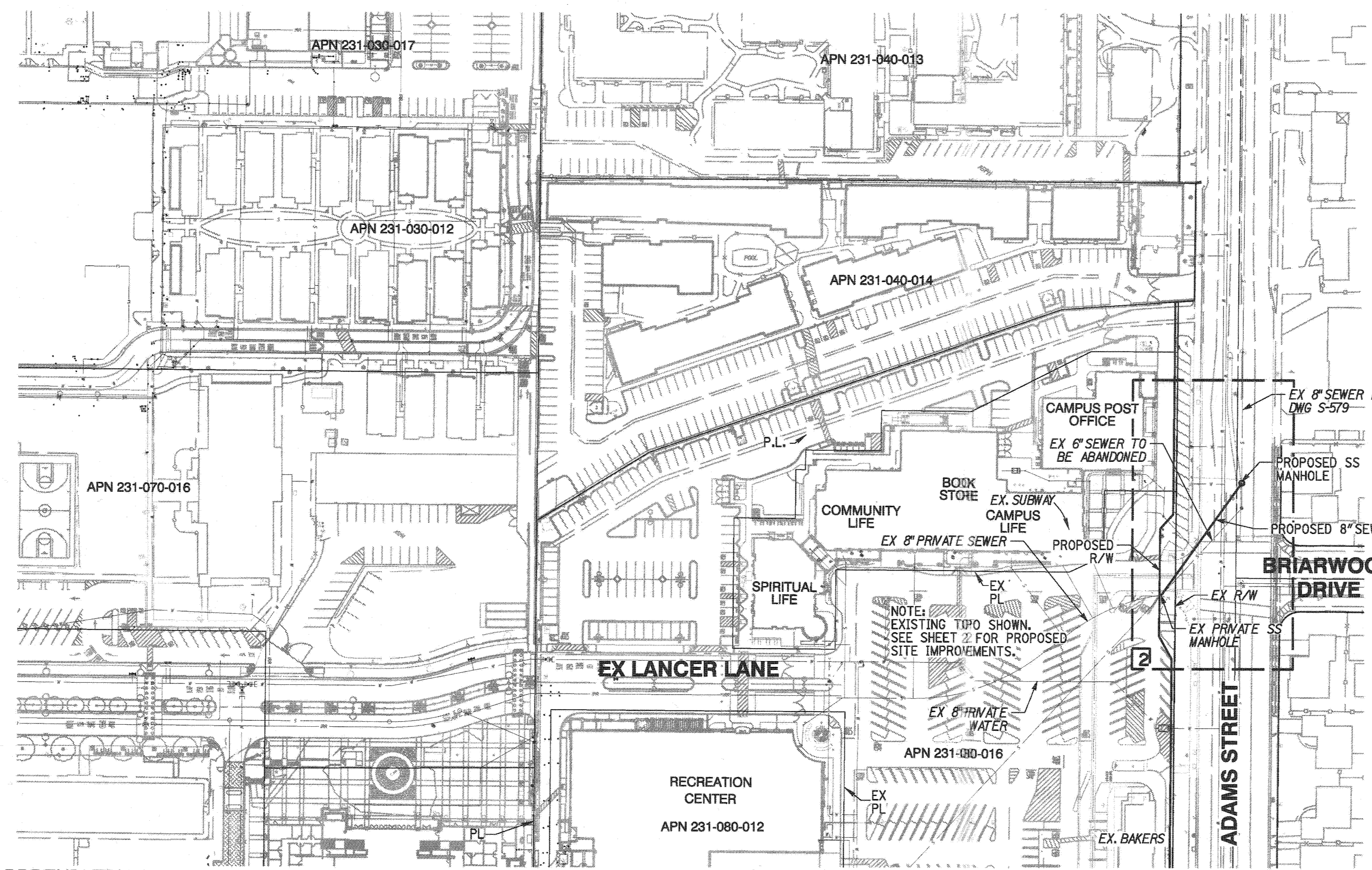
CALIFORNIA BAPTIST UNIVERSITY-ADAMS STREET WIDENING

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.
- 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.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES, THE NFPA 24 STANDARDS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 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 BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 811, 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.
- CONTRACTOR IS TO VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
- 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.
- 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.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
- PIPES JOINTS FOR VITRIFIED CLAY PIPE SHALL BE TYPE "C" 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.
- THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR PERFORMING A VIDEO INSPECTION OF ALL NEW SEWER AND STORM DRAIN 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.



VICINITY MAP
N.T.S.



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 WORK 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 HERE ON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

OWNER/DEVELOPER

CALIFORNIA BAPTIST UNIVERSITY
8432 MAGNOLIA AVENUE
RIVERSIDE, CA 92504
ATTN: STEVE SMITH
(951) 343-4393

CIVIL ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
ATTN: KRISTIN M. WERKSMAN, RCE 69317
(951) 782-0707

GEOTECHNICAL ENGINEER

JOHN R. BYERLY, INC
2257 SOUTH ILLINOIS AVENUE
BLOOMINGTON, CA 92316
ATTN: JOHN R. BYERLY, GE
(909) 877-1324

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.) 811 AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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.

ABBREVIATIONS

CENTERLINE	CL
EDGE OF PAVEMENT ELEVATION	EP
EXISTING	EX
FINISHED FLOOR ELEVATION	FFE
FINISHED GRADE ELEVATION	FG
FLOW LINE ELEVATION	FL
FINISHED SURFACE ELEVATION	FS
GRADE BREAK	GB
HIGH POINT	HP
INVERT ELEVATION	IE
LOW POINT	LP
PLANTER	PA
PROTECT IN PLACE	PIP
PROPERTY LINE	PL
RIGHT-OF-WAY	R/W
SANITARY SEWER	SS

UTILITY LEGEND

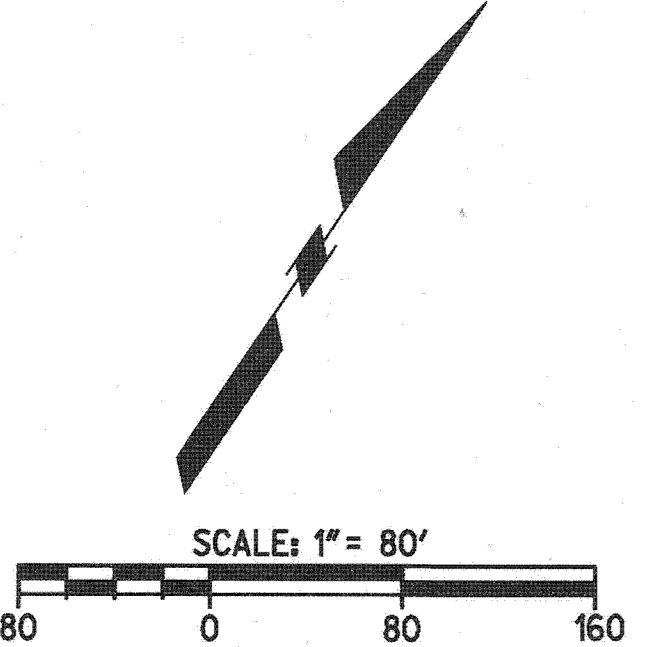
PROPOSED SEWER	---
PROPOSED SEWER MANHOLE	○
EXISTING SEWER LINE	---
EXISTING WATER LINE	---
EXISTING STORM DRAIN	---
EXISTING ELECTRIC	---
EXISTING TELEPHONE LINES	---

EXISTING TOPO LEGEND

EXISTING TREE	⊗
EXISTING SIGN	⊙
EXISTING STRIPING	---
EXISTING FIRE HYDRANT	⊕
EXISTING LIGHT	⊗
EXISTING CLEAN OUT	⊕
EXISTING SEWER MANHOLE	⊙
EXISTING SIDEWALK	---
EXISTING WATER VALVE	⊕

SEWER CONSTRUCTION NOTES AND QUANTITY ESTIMATES

- CONSTRUCT MANHOLE PER CITY RIV STD 500..... 1 EA
- INSTALL 8" VCP SEWER MAIN, PIPE BEDDING PER CITY RIV STD 452 (CASE 1)..... 136 LF
- ABANDON EXISTING CLEAN OUT PER 2012 GREENBOOK SECTION 306-5..... 1 EA
- RECONTOUR BOTTOM OF EXISTING MANHOLE FOR FLOW PER DETAIL ON SHEET 2..... 1 EA
- ABANDON EXISTING SEWER PIPE PER 2012 GREENBOOK SECTION 306-5..... 176 LF



APPROVED BY:
PUBLIC UTILITIES DEPARTMENT
WATER DIVISION
Chris Jara 2/16/2018
FOR COMMENTS ONLY DATE

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

REGISTERED PROFESSIONAL ENGINEER
KRISTIN M. WERKSMAN
No. 69317
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
Kristin M. Werksman 2/14/18
KRISTIN M. WERKSMAN DATE
REGISTERED CIVIL ENGINEER NO. 69317

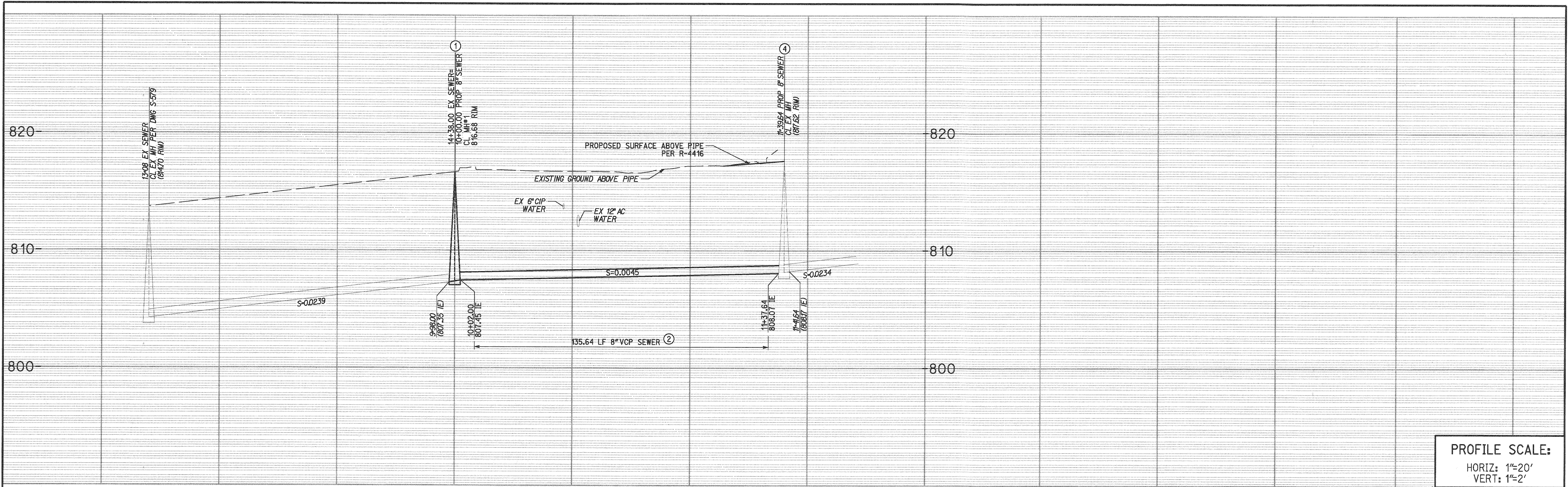
RICK ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707 (FAX) 951.782.0723
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18
BENCH MARK: CITY OF RIVERSIDE BENCHMARK GS-A2, ELEVATION: 797.89', BRASS DISK STAMPED "GS-A" IN A MONUMENT WELL AT THE INTERSECTION OF ADAMS STREET AND MAGNOLIA AVENUE, DATUM NGVD 29

MARK BY	DATE	REVISIONS	APPR. DATE
ENGINEER			CITY
DESIGNED BY	MM	DRAWN BY	MM
CHECKED BY	KW		

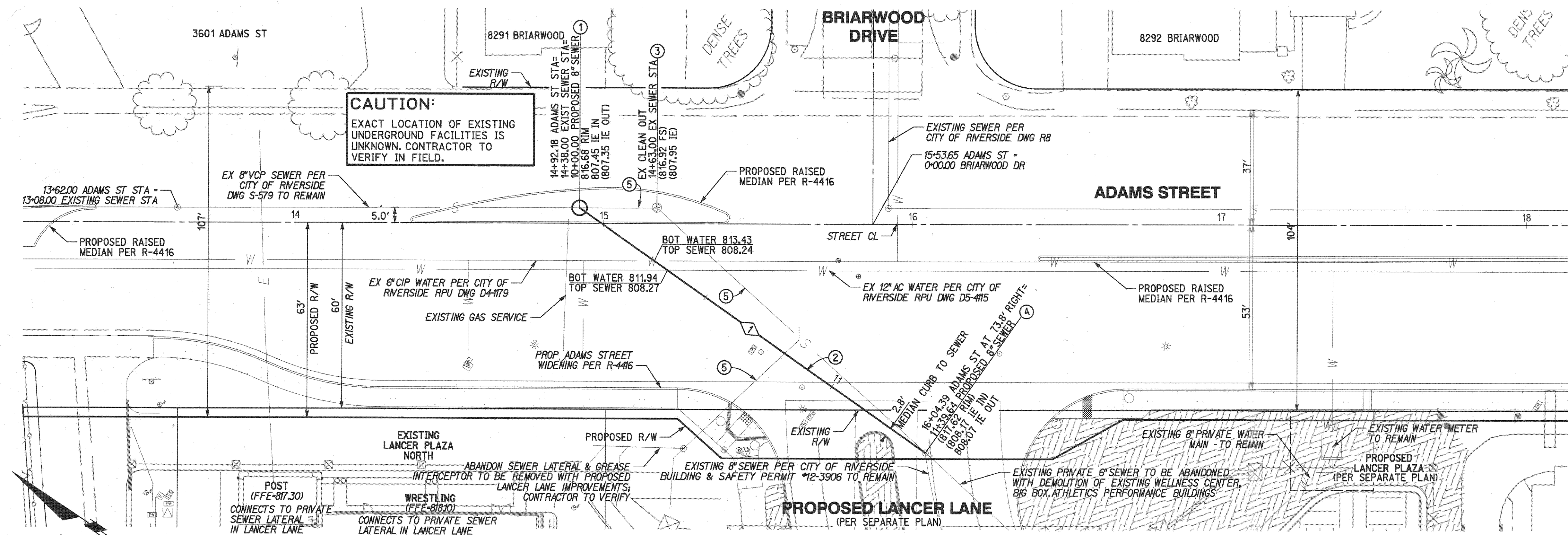
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature] DATE: 2/13/18
PRINCIPAL ENGINEER: [Signature] DATE: 2-13-18
TRAFFIC DIVISION: [Signature]

SEWER IMPROVEMENT PLAN
CALIFORNIA BAPTIST UNIVERSITY
ADAMS STREET WIDENING
TITLE SHEET

PW17-0835
S-2162
SHEET 1 OF 2
SCALE HORIZ: 1"=80' VERT: NONE
FILE NO.
PLOT DATE: 14-FEB-2018 UN 15620CZ

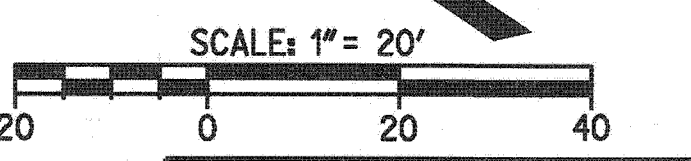
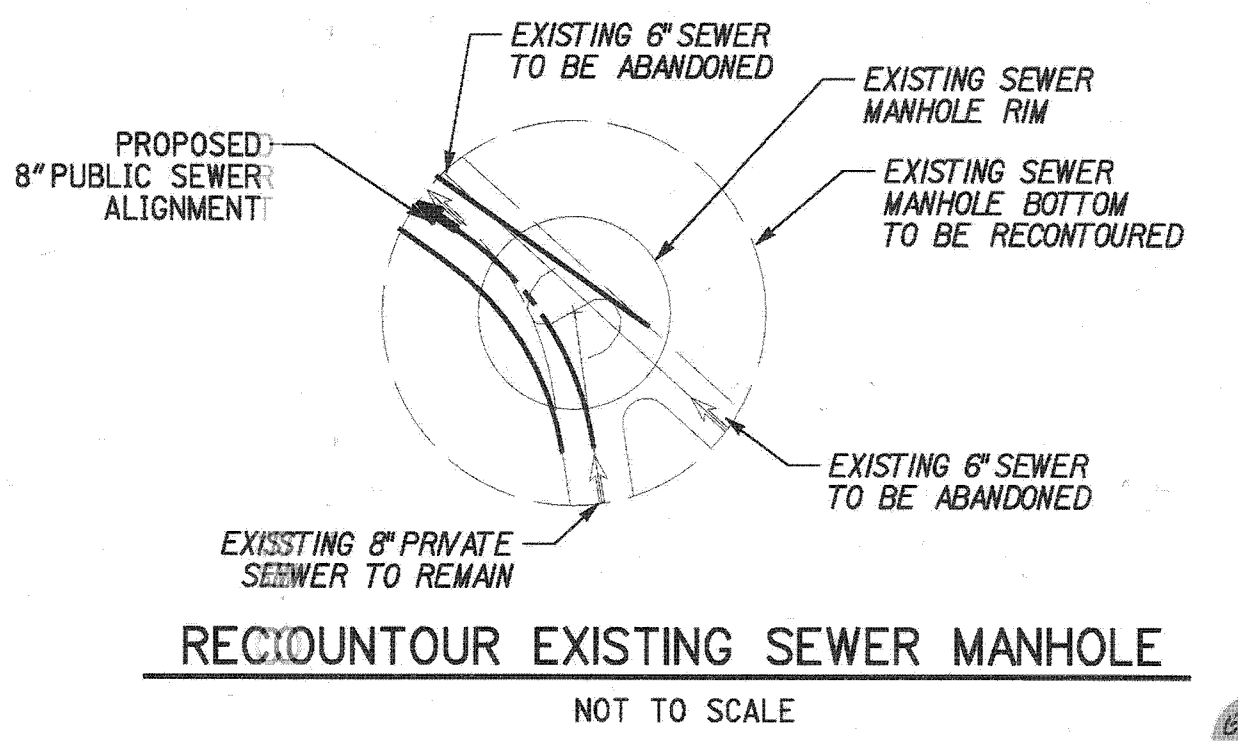


PROFILE SCALE:
 HORIZ: 1"=20'
 VERT: 1"=2'



SEWER LINE DATA				
No.	DELTA OR BEARING	RADIUS	LENGTH	REMARKS
1	N01°28'50"E		135.64'	8" VCP SEWER

- SEWER CONSTRUCTION NOTES**
- CONSTRUCT MANHOLE PER CITY RIV STD 500
 - INSTALL 8" VCP SEWER MAIN, PIPE BEDDING PER CITY RIV STD 452 (CASE 1)
 - ABANDON EXISTING SEWER CLEAN OUT PER 2012 GREENBOOK SECTION 306-5
 - RE-CONTOUR BOTTOM OF EXISTING MANHOLE FOR FLOW PER DETAIL BELOW
 - ABANDON EXISTING SEWER PIPE PER 2012 GREENBOOK SECTION 306-5



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

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

REGISTERED PROFESSIONAL ENGINEER
 KRISTIN M. WERKSMAN
 No. 69317
 Exp. 6-30-18
 CIVIL
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
 KRISTIN M. WERKSMAN
 REGISTERED CIVIL ENGINEER NO. 69317
 DATE 2/14/18

RICK
 ENGINEERING COMPANY
 1770 IOWA AVENUE - SUITE 100
 RIVERSIDE, CA 92507
 951.762.0737
 (FAX) 951.762.0723
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 1/31/18
 BENCH MARK: CITY OF RIVERSIDE BENCHMARK 05-A2, ELEVATION=797.89'. BRASS DISK STAMPED "65-A" IN A MONUMENT WELL AT THE INTERSECTION OF ADAMS STREET AND MAGNOLIA AVENUE. DATUM NGVD 29

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 DATE: 3/13/18

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 CITY ENGINEER
 DATE: 3/13/18

SEWER IMPROVEMENT PLAN
 CALIFORNIA BAPTIST UNIVERSITY
 ADAMS STREET WIDENING
 SEWER IMPROVEMENT PLAN
 SCALE: HORIZ: 1"=20' VERT: 1"=2'

PW17-0835
 S-2162
 SHEET 2 OF 2
 FILE NO.