

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 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. (THIS NOTE REQUIRED ON ALL PLANS.)
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- 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 ± .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.
- THE 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.
- 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.
- 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.
- 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.)
- ALL OVERHANGING TREE LIMBS THAT ARE LESS THAN 14' ABOVE THE STREET GRADE SHALL BE TRIMMED BACK.
- THE DEVELOPER IS RESPONSIBLE FOR PROVIDING ACCESS PAVING. SHOULD THE DEVELOPER AND/OR CONTRACTOR DECIDE TO INSTALL THE ACCESS PAVING PRIOR TO THE CITY COMMENCING ITS PAVING WORK, THE DEVELOPER SHALL COORDINATE HIS INSTALLATION OF ACCESS PAVING ON CHESTNUT STREET WITH THE CITY INSPECTOR. FINAL COURSE OF PAVING IN ACCESS AREA TO BE PAID FOR BY DEVELOPER PRIOR TO THE CITY COMMENCING ITS PAVING OPERATION. DEVELOPER SHALL INSTALL TYPE F-1 FLEXIBLE DELINEATORS AT 20' INTERVALS ON OUTGOING TAPERS.
- 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 WHETHER A BARRICADE CAN BE RELOCATED.
- 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.
- STREET OPENING PERMIT FOR CONSTRUCTION AND/OR MODIFICATION OF TRAFFIC SIGNAL FACILITIES IS REQUIRED.
- ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.
- ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
- STREET IMPROVEMENT WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOP(S) SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AND THE NECESSARY TIMING ADJUSTMENTS ARE MADE TO MAINTAIN SIGNAL OPERATION.
- FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1-800-2272800, 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 SEWER ELEVATION PRIOR TO 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 "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.
- 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.
- DEVELOPER AND/OR CONTRACTOR TO GIVE RCFC 5-DAYS WRITTEN NOTICE PRIOR TO STARTING WORK ON STORM DRAIN (OR DOING ANY WORK WITHIN RCFC EASEMENTS). RCFC ENCROACHMENT PERMIT NO. 07-03725.
- BEFORE THE RIP-RAP AT THE OUTLET OF ANY DRAINAGE STRUCTURE IS ACCEPTED BY THE CITY, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
- 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.
- THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.

NOTICE TO CONTRACTOR:

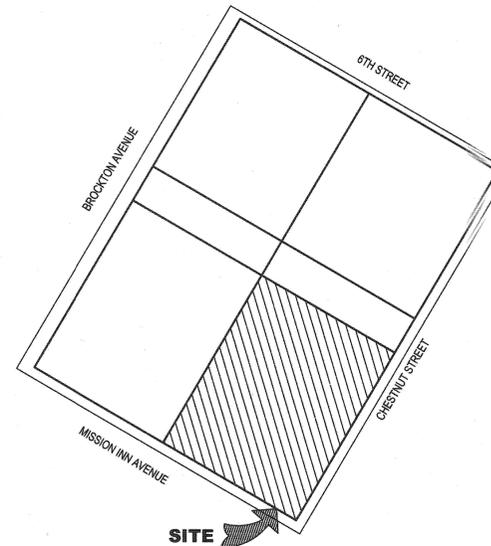
THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY - NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS PROVIDED BY THESE MEMBER AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY 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 OF THESE PLANS AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

CALL UNDERGROUND SERVICE ALERT (U.S.A.) 811 AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SEWER PLAN MISSION INN TOWNHOMES

4019 MISSION INN AVENUE
RIVERSIDE, CALIFORNIA



VICINITY MAP
NO SCALE

SEWER CONSTRUCTION SYMBOLS

- ▲ INSTALL 8" VCP SEWER MAIN. PIPE BEDDING CASE I AND TRENCH BACKFILL PER CITY STANDARD DRAWING 452 AND 453
- ▲ PROPOSED 4' DIAMETER SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 500
- ▲ CONNECT 4" SANITARY SEWER SERVICE LATERAL TO EXISTING 8" SEWER PIPE WITH NECESSARY PIPE FITTING. IF ONSITE LATERAL IS NOT READY, INSTALL TEMPORARY SEWER CAP AT PIPE END.
- ▲ PROPOSED SEWER LATERAL WITH PROPERTY LINE CLEANOUT PER CITY OF RIVERSIDE STANDARD DRAWING NO. 562
- ▲ PROPOSED SEWER CLEANOUT PER CITY OF RIVERSIDE STANDARD DRAWING NO. 560
- ▲ PROPOSED 4" BACKFLOW PREVENTER AT BUILDING CONNECTION
- ▲ CONNECT PROPOSED 8" VCP INTO EXISTING SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 503

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").

BENCHMARK:

POINT ID: Z-1-AUX
1988 ELEVATION: 854.404 (NAVD 88)
DATE LEVELED: 0
REFERENCE: LL42/98
ADJUSTMENT YEAR: 2009
3RD ORDER POINT

DESCRIPTION:

U.S. COAST AND GEODETIC BRASS DISK STAMPED "Z1 RESET 1962" IN A MONUMENT WELL IN THE BACK OF THE SIDEWALK AT THE NORTHEAST CORNER OF ORANGE STREET AND MISSION AVENUE. ADJUSTED AND ENTERED MAY 1997

REFERENCE	DWG
STREET	R-4468
GRADING	PW18-0658
BUILDING	18-4626

NOTE:

FOR ONSITE SEWER LATERAL CONNECTIONS SEE BUILDING AND SAFETY PERMIT #18-4626

OWNER

CITYMARK DEVELOPMENT
3818 PARK BLVD. SAN
DIEGO, CA 92103
CONTACT: RUSS HALEY
PHONE: (619) 231-1181

CIVIL ENGINEER

C&S COMPANIES
2355 NORTHSIDE DRIVE
SUITE 350
SAN DIEGO, CA 92108
CONTACT: KENNETH GETHERS
PHONE: (619) 296-9373

ARCHITECT

THE MCKINLEY ASSOCIATES, INC.
1818 FIRST AVENUE
SAN DIEGO, CA 92101
CONTACT: KIRK MCKINLEY
PHONE: (619) 238-1134

SOILS ENGINEER

NOVA SERVICES, INC.
4373 VIEWRIDGE AVE #B
SAN DIEGO, CA 92123
CONTACT: JESSE BEARFIELD
PHONE: (858) 292-7575

LANDSCAPE

MCCULLOUGH LANDSCAPE
ARCHITECTURE, INC.
703 16TH STREET SUITE 100
SAN DIEGO, CA 92101
CONTACT: DAVID MCCULLOUGH
PHONE: (619) 296-3150

SURVEYOR

GGI SURVEYING AND MAPPING
1251 POMONA ROAD SUITE 101
CORONA, CA 92820
CONTACT: MICHAEL NAVARRO
PHONE: (951) 340-0556

ABBREVIATIONS:

AVE	AVENUE	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	S	SANITARY SEWER
G	GAS	SD	STORM DRAIN
ID	IDENTIFICATION	STA	STATION
INV	INVERT	STD	STANDARD
LF	LINEAR FOOT	VCP	VITRIFIED CLAY PIPE
MH	MANHOLE	W	WATER

LEGEND

○ ⁵⁰⁰	EXISTING SEWER CLEANOUT	---	PROPERTY LINE
⊙	EXISTING SEWER MANHOLE	---	ROAD CENTERLINE
— S —	EXISTING SEWER LINE	⊙	PROPOSED SEWER MANHOLE
— W —	EXISTING WATER LINE	— S —	PROPOSED SEWER LINE
— SD —	EXISTING STORM DRAIN LINE	▨	PROPOSED TRENCH AND BACKFILL
— G —	EXISTING GAS LINE		
— E —	EXISTING ELECTRICAL LINE		

CITY OF RIVERSIDE
PUBLIC UTILITIES - WATER DEPARTMENT

APPROVED BY: *[Signature]* DATE: 6/18/19

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-422-4133

CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NUMBER: 1251248 EXPIRATION DATE: 08.31.2019

C&S Engineers, Inc.
2355 Northside Drive
Suite 350
San Diego, California 92108
Phone: 619-296-9373
Fax: 619-296-5683
www.cscos.com

APPROVED BY: *[Signature]* DATE: 6/17/19
BRIAN C. SAULL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>[Signature]</i>	6/18/19	<i>[Signature]</i>
ENGINEERING MANAGER	<i>[Signature]</i>	6/18/19	
TRAFFIC DIVISION			

MARK REVISIONS APPR. DATE

DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____

DATE: June 23, 2019

Sewer Plan
Mission Inn Avenue
Townhomes

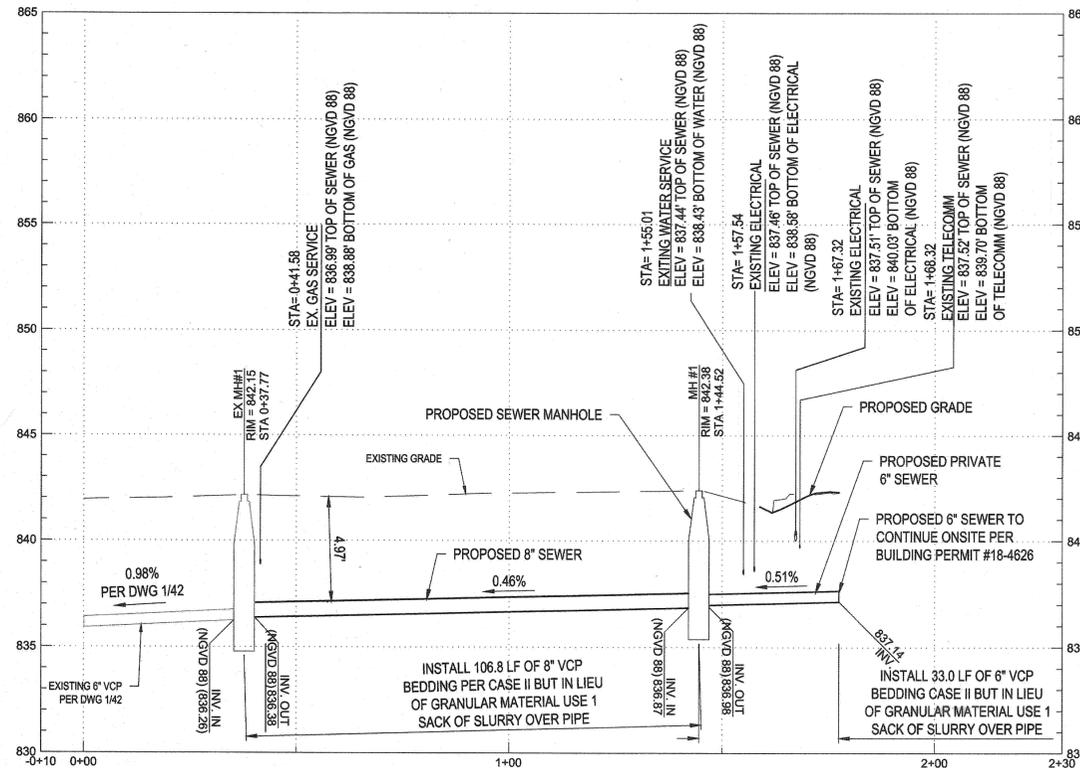
4019 Mission Inn Avenue

PW18 - 0765
S-2177
SHEET 1 OF 3

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: N/A

May 24, 2019 - 4:30pm
 F:\projects\133 - CityMark Development\133\001\001 - 4019 Mission Inn Avenue\Design\133\001\001 - Sewer_Plan(0-22) - (0).dwg

PROFILE VIEW: CHESTNUT ST. SEWER
SCALE: V: 1"= 4', H: 1"=20'



NOTE:

- CONTRACTOR TO FIELD VERIFY UTILITY CROSSING PRIOR TO CONSTRUCTION.
- ELEVATIONS SHOWN ARE ACCORDING TO NAD 88 TO CONVERT TO CITY OF RIVERSIDE AS-BUILT DRAWING SUBTRACT 2.25'

SEWER CONSTRUCTION SYMBOLS

- INSTALL 8" VCP SEWER MAIN, PIPE BEDDING CASE II AND TRENCH BACKFILL PER CITY STANDARD DRAWING 452 AND 453. FOR THE PIPE BEDDING CASE II IN LIEU OF GRANULAR MATERIAL USE 1 SACK OF SLURRY OVER PIPE.
- PROPOSED 4" DIAMETER SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 500
- PROPOSED SEWER LATERAL WITH PROPERTY LINE CLEANOUT PER CITY OF RIVERSIDE STANDARD DRAWING NO. 562
- PROPOSED SEWER CLEANOUT PER CITY OF RIVERSIDE STANDARD DRAWING NO. 560
- PROPOSED 4" BACKFLOW PREVENTER AT BUILDING CONNECTION
- CONNECT PROPOSED 8" VCP INTO EXISTING SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 503

Sewer Line Table (all piping is VCP material) - Offsite

Label ID	Pipe Diameter (inches)	Start Invert (feet)	End Invert (feet)	Length (feet)	Slope (%)	Bearing
(A)	6 (PRIVATE)	838.00	836.97	202.32	-0.51	S60°21'16"E
(B)	8 (PUBLIC)	836.87	836.38	106.8	-0.46	N29°38'37"E

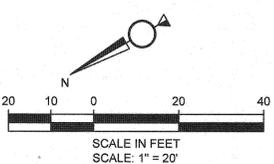
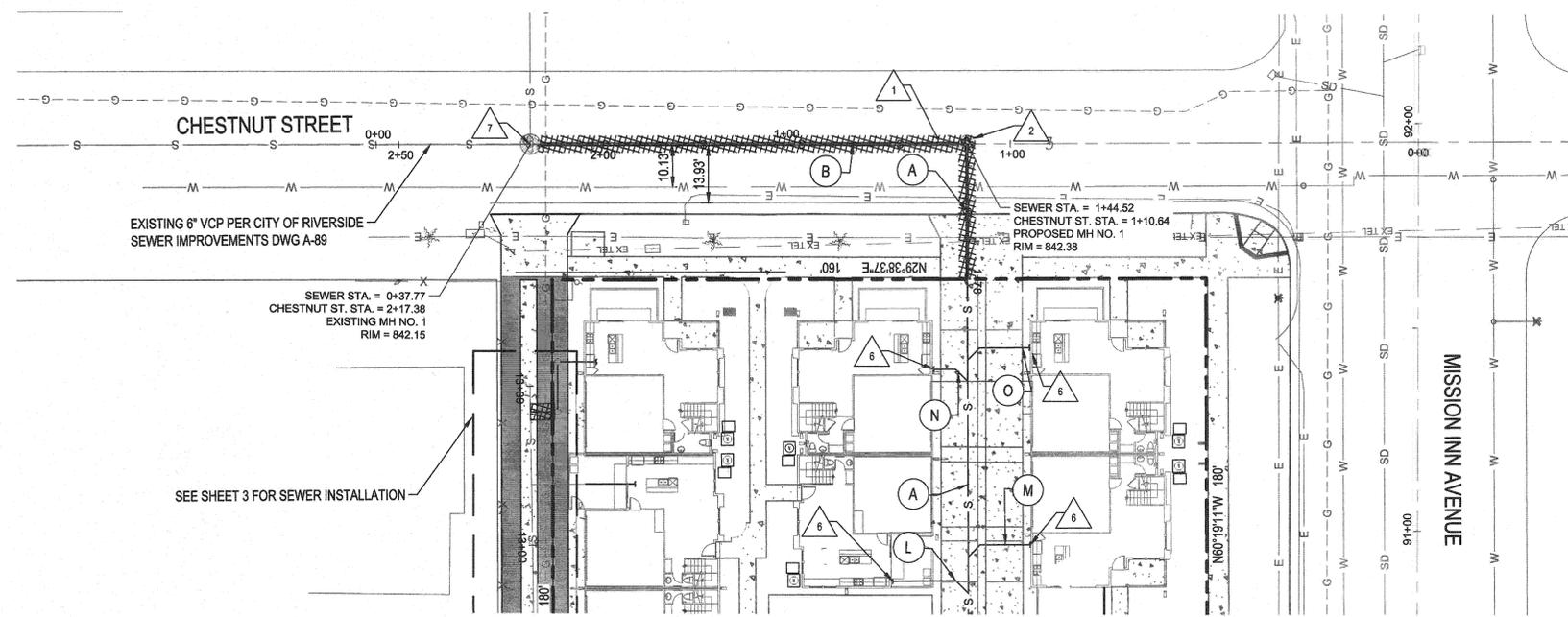
NOTE:
ELEVATIONS SHOWN ARE ACCORDING TO NAD 88 TO CONVERT TO CITY OF RIVERSIDE AS-BUILT DRAWING SUBTRACT 2.25'

GENERAL UTILITY NOTES:

- FOR ONSITE SEWER LATERAL CONNECTIONS, SEE BUILDING AND SAFETY PERMIT #18-4626
- CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ENSURE NO CONFLICTS EXIST WITH PROPOSED IMPROVEMENTS. NOTIFY ENGINEER IMMEDIATELY IF UTILITIES ARE LOCATED DIFFERENTLY THAN SHOWN. THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY IN ORDER TO RELOCATE IF NEEDED IN CONFORMANCE WITH THEIR GUIDELINES.
- CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS INCLUDING ENCROACHMENT AND TRAFFIC CONTROL PERMITS TO COMPLETE THE WORK ALONG MISSION INN AVENUE.
- AT THE COMPLETION OF THE WATER AND/OR SEWER CONSTRUCTION AND PRIOR TO RECORDING THE FINAL PLOT, THE CONTRACTOR WILL FURNISH THE WATER SYSTEM INSPECTOR RECORD DRAWINGS OF THE PROJECT.
- BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE GAS COMPANY FOR THE CONSTRUCTION OF THE GAS LINE BETWEEN METER AND MAIN. BUILDING CONTRACTOR TO TRENCH AND BACKFILL GAS LINE AND GAS COMPANY TO INSPECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, PRIOR TO CONSTRUCTION, ALL EXISTING LOCATIONS AND INVERT ELEVATIONS OF SANITARY SEWERS, STORM DRAINAGE, AND WATER MAINS. IF ANY INVERT ELEVATION VARIES MORE THAN 0.005 FT. FROM RECORD ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT PROCEED UNTIL THE CONTRACTOR IS NOTIFIED BY THE ENGINEER.
- CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
- COORDINATE WITH BUILDING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
- ALL SEWERS TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING CLEANING OF ANY SILT OR DEBRIS ACCUMULATED IN STRUCTURES.
- ALL SURPLUS EXCAVATED MATERIAL FROM THE TRENCH SHALL BE DISPOSED OFF THE SITE BY CONTRACTOR.
- COORDINATE EXACT TRENCHING, ROUTING, AND POINT OF TERMINATION WITH ALL UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE HIS SCHEDULE WITH ALL UTILITY COMPANIES AFFECTED BY THIS WORK. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH COORDINATION WITH UTILITY COMPANIES.
- FOUNDATION FOR MANHOLE, CURB INLET, CATCH BASIN, UTILITY BOX, ETC. SHALL BE UNDERLAIN BY ENGINEERED FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- SEE SHEET BUILDING PLANS FOR ALL DRY UTILITY LOCATIONS INCLUDING GAS, ELECTRICAL, TELEPHONE, CABLE.
- CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED UTILITY LIDS TO MATCH FLUSH WITH PROPOSED FINAL SURFACE GRADES. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: MANHOLES, METER BOXES, VALVE BOXES, ELECTRICAL BOXES, TELEPHONE BOXES, CABLE BOXES, AND TRANSFORMER PADS.

Sewer Line Table (All piping is VCP material) - Onsite (Private)

Label ID	Pipe Diameter (inches)	Start Invert (ft)	End Invert (ft)	Length (ft)	Slope (%)
A	6	838.00	837.05	169.32	0.56
D	4	837.50	836.70	81.04	1.00
H	4	838.10	837.98	19.76	0.63
I	4	838.10	837.95	16.30	0.93
J	4	838.00	837.63	19.79	1.89
K	4	838.00	837.69	16.25	1.93
L	4	838.00	837.48	19.75	2.61
M	4	838.00	837.43	16.46	3.44
N	4	838.00	837.19	9.52	8.49
O	4	838.00	837.16	16.33	5.13



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CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NUMBER: 1251248 EXPIRATION DATE: 08.31.2019

C&S ENGINEERS, INC.
2355 Northside Drive Suite 350 San Diego, California 92108 Phone: 619-296-9373 Fax: 619-296-5063 www.cscos.com

APPROVED BY: *Brian C. Saull* DATE: 6/17/19
BRIAN C. SAULL

MARK	REVISIONS	APPR.	DATE
1	SEWER MAIN REVISION		4/30/19

DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: _____ BY: _____ DATE: _____
PRINCIPAL ENGINEER
ENGINEERING MANAGER
TRAFFIC DIVISION

DATE: June 27, 2019

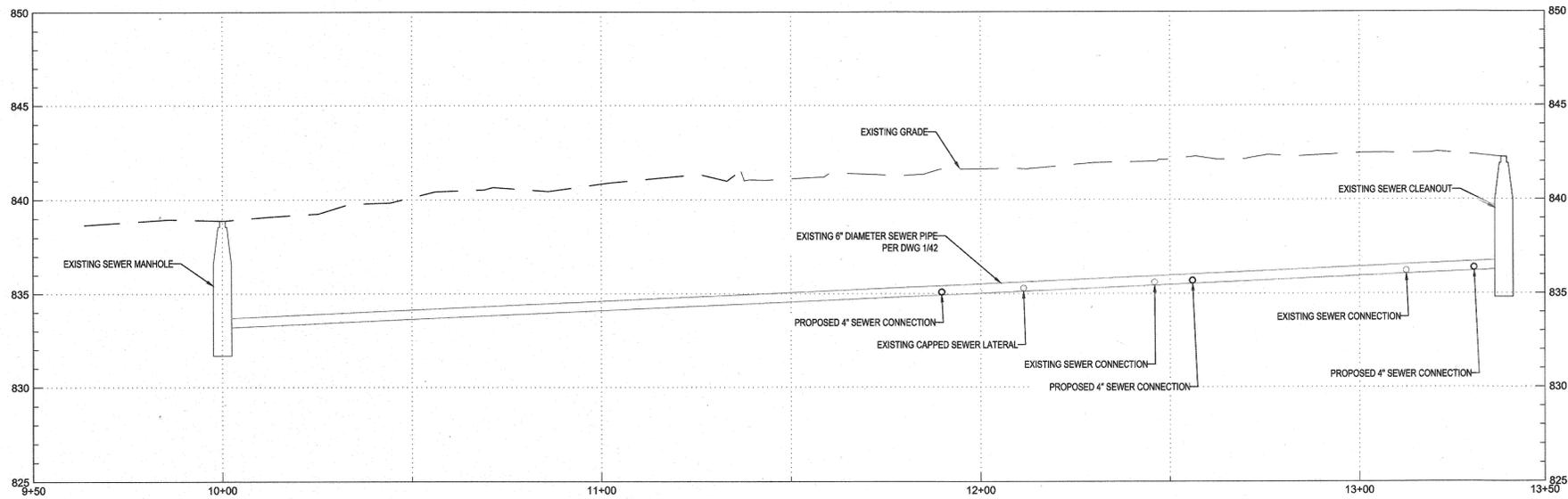
Sewer Plan
Mission Inn Avenue
Townhomes

4019 Mission Inn Avenue

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: N/A

PW18 - 0765
S-2177
SHEET 2 OF 3

PROFILE VIEW: ALLEY SEWER PROFILE
SCALE: V: 1"= 4', H: 1"=20'



SEWER CONSTRUCTION SYMBOLS

- CONNECT 4" SANITARY SEWER SERVICE LATERAL TO EXISTING 6" SEWER PIPE WITH NECESSARY PIPE FITTINGS. IF ONSITE LATERAL IS NOT READY, INSTALL TEMPORARY SEWER CAP AT PIPE END.
- PROPOSED SEWER CLEANOUT PER CITY OF RIVERSIDE STANDARD DRAWING NO.560
- PROPOSED 4" BACKFLOW PREVENTER AT BUILDING CONNECTION
- CONNECT PROPOSED 8" VCP INTO EXISTING SEWER MANHOLE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 503

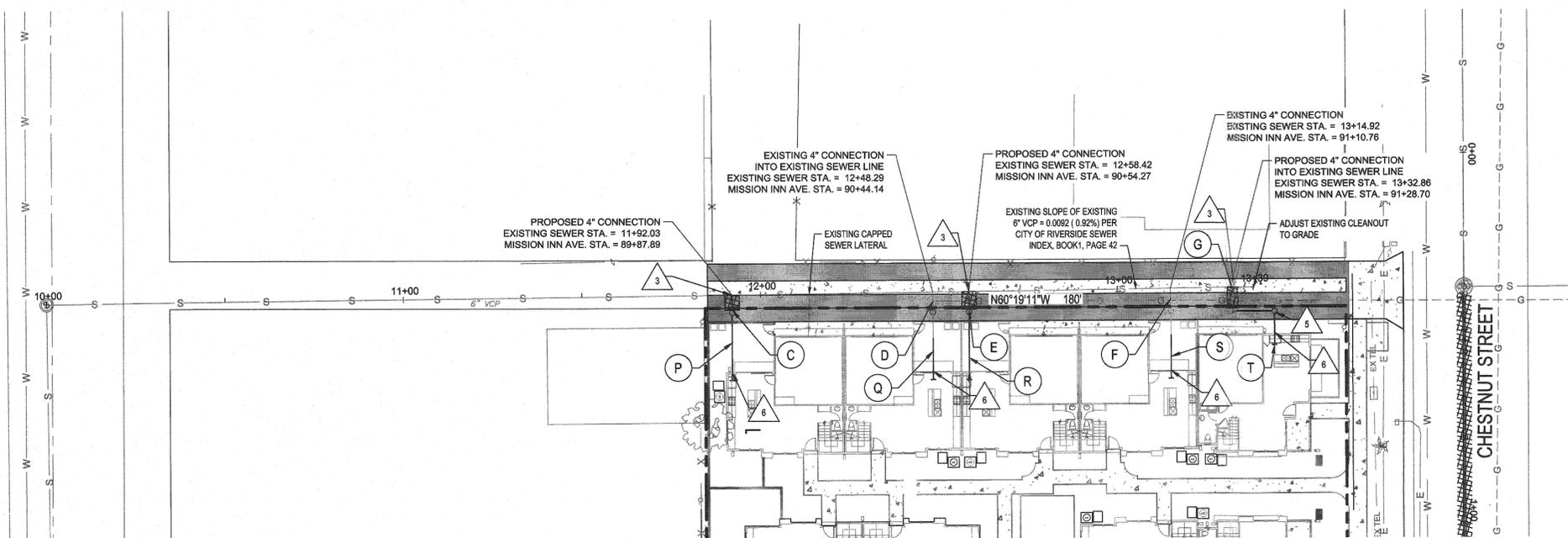
Sewer Line Table (all piping is VCP material) - Offsite						
Label ID	Pipe Diameter (inches)	Start Invert (feet)	End Invert (feet)	Length (feet)	Slope (%)	Bearing
B	80	836.87	836.28	104.9	-0.56	N29°38'37"E
C	44	835.27	834.76	4.97	-10.26	N29°38'37.22"E
D	44	835.79	835.38	5.64	-7.27	N29°38'37.22"E
E	44	835.86	835.47	5.76	-6.77	N29°38'37.22"E
F	44	836.31	836.00	6.41	-4.84	N29°38'37.22"E
G	44	836.58	836.25	6.64	-4.97	N29°00'00.00"E

NOTE:
ELEVATIONS SHOWN ARE ACCORDING TO NAD 88 TO CONVERT TO CITY OF RIVERSIDE AS-BUILT DRAWING SUBTRACT 2.25'

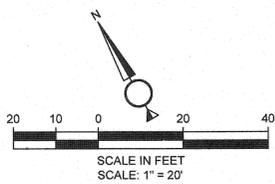
GENERAL UTILITY NOTES:

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- CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS INCLUDING ENCROACHMENT AND TRAFFIC CONTROL PERMITS TO COMPLETE THE WORK ALONG MISSION INN AVENUE.
- AT THE COMPLETION OF THE WATER AND/OR SEWER CONSTRUCTION AND PRIOR TO RECORDING THE FINAL PLOT, THE CONTRACTOR WILL FURNISH THE WATER SYSTEM INSPECTOR RECORD DRAWINGS OF THE PROJECT.
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- COORDINATE EXACT TRENCHING, ROUTING, AND POINT OF TERMINATION WITH ALL UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE HIS SCHEDULE WITH ALL UTILITY COMPANIES AFFECTED BY THIS WORK. NO ADDITIONAL COMPENSATION WILL BE MADE FOR SUCH COORDINATION WITH UTILITY COMPANIES.
- FOUNDATION FOR MANHOLE, CURB INLET, CATCH BASIN, UTILITY BOX, ETC. SHALL BE UNDERLAIN BY ENGINEERED FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- SEE SHEET BUILDING PLANS FOR ALL DRY UTILITY LOCATIONS INCLUDING GAS, ELECTRICAL, TELEPHONE, CABLE.
- CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED UTILITY LIDS TO MATCH FLUSH WITH PROPOSED FINAL SURFACE GRADES. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: MANHOLES, METER BOXES, VALVE BOXES, ELECTRICAL BOXES, TELEPHONE BOXES, CABLE BOXES, AND TRANSFORMER PADS.

Sewer Line Table (All piping is VCP material) - Onsite (Private)					
Label ID	Pipe Diameter (inches)	Start Invert (ft)	End Invert (ft)	Length (ft)	Slope (%)
P	4	838.00	835.27	16	17.06
Q	4	838.00	835.79	9.450	23.39
R	4	838.00	835.86	16	13.38
S	4	838.00	836.31	10.1	16.73
T	4	838.00	836.58	21.16	6.71



CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NUMBER: 1251248 EXPIRATION DATE: 08.31.2019



IMPORTANT NOTICE
Section 4119.4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-422-4133

C&S ENGINEERS, INC.
2355 Northside Drive Suite 350 San Diego, California 92108 Phone: 619-296-9373 Fax: 619-296-5063 www.cseos.com

APPROVED BY: *Brian C. Saull* DATE: 01/21/19
BRIAN C. SAULL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 1/22/19
PRINCIPAL ENGINEER
ENGINEERING MANAGER
TRAFFIC DIVISION

MARK REVISIONS APPR. DATE
DESIGNED BY: DRAWN BY: CHECKED BY:

Sewer Plan
Mission Inn Avenue
Townhomes
4019 Mission Inn Avenue

PW18 - 0765
S-2177
SHEET 3 OF 3

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: N/A

May 28, 2019 - 4:18pm P:\Projects\1025 - City of Riverside Development\1025\001\Draw\Plan\1025_001.dwg - Owner: PWS (5-22-19) dwg