Appendix K

Sewer Area Study



SEWER AREA STUDY

FOR THE PROJECT:

Tract No. 83166

Vincent Ave. Development 1024 W. Workman Avenue City of West Covina County of Los Angeles

PREPARE FOR:

MLC HOLDINGS, INC.

5 Peters Canyon Road Suite 310 Irvine, CA 92606 (310) 293-8463

PREPARED BY:

BLUE ENGINEERING AND CONSULTING, INC

12223 Highland Avenue #106-594 RANCHO CUCAMONGA, CA 91739 (909) 248-6557

PREPARED UNDER THE SUPERVISION OF:

ANGEL CESAR P.E., RCE 87222

July, 2020



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I. INTRODUCTION

The purpose of this study is to analyze the adequacy of the existing system to take the effluents generated for the proposed development of the 8.05-acre site. The development TR No. 83166 is for 119 residential units located at 1024 West Workman Avenue within the community of West Covina under the jurisdiction of the County of Los Angeles. The site is currently within R-1 zone. The development will be proposing to change the zone to single family/multifamily residential. Figure 1 shows the proposed site and Figure 2 shows the vicinity map.



Figure 1 - Proposed Site

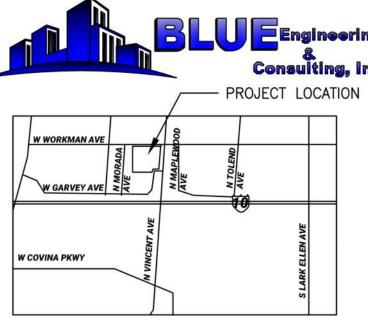


Figure 2 - Vicinity Map

To provide the development's sewer system, we propose to connect to the existing sewer system network on West Workman Avenue.

As part of this study, copies of the existing sewer plans in the area were obtained from the Los Angeles County Sanitation Districts (LACSD) online Underground Utilities viewer.

II. SITE DESCRIPTION

Site is approximately 8.05-acres in the County of Los Angeles. Project is located at 1024 West Workman Avenue, West Covina, CA 91790, (APN. 8457-029-906). The site is bound by West Workman Avenue to the north, North Vincent Avenue and West Garvey Avenue to the east, townhomes and apartments to the south, and single-family dwellings to the west. A preschool occupies the northern portion of the lot and the southern portion is vacant.

III. PROJECT DESCRIPTION

Tract number 83166 is a subdivision project for 119 units with a mixture of single-family dwellings and multifamily townhomes. The single-family units surround the north and west, and the multifamily units are at the center, east, and south. A 26' wide private drive will run north to south and a private loop will surround a shared open space. Each unit will be serviced by a lateral that will come off a public 8" sewer main that will be in the alley or private street. An access and maintenance easement will be provided that will blanket the entire alley or private street.

A copy of the Tentative Tract No. 83166 is included at the end of the report for reference.

IV. DESCRIPTION OF EXISTING SEWER SYSTEM

There is a 27" RCP trunk sewer that runs along Workman Avenue north of the project site and draining west at slopes of 0.505 and 0.496%. At approximately 700' east of Hartley Avenue, the line transitions to a 24" RCP draining west at a slope of 0.923% and continues east at a slope of 0.913% past Vincent Avenue. The line is was approved in 1954 and is maintained by Los Angeles County Sanitation Districts (LACSD).



There is an 8" VCP sewer on Vincent Avenue 24' east of the centerline. The line has a slope of 0.60% and starts at the connection at Workman Avenue, continues south for about 550', and ends at a manhole.

V. DESCRIPTION OF PROPOSED SEWER SYSTEM

The proposed public sewer system to service the proposed development will be an 8-inch Vitrified Clay Pipe sewer main that will be designed to public standards. The main will run along the proposed street going through the development and will connect to the existing 27" sewer on W Workman Avenue. The laterals will run along the onsite alleys and join the proposed main.

VI. METHODOLOGY USED AND LIST OF REFERENCES

The existing sewer pipes as described above were analyzed per Kutter's Formula as used in LA County Standard S-C4 for a maximum design depth at 3/4 full for pipes ≥ 15".

VII. SEWER PIPE CAPACITY ANALYSIS

The tributary sewer flow rates (Q) for the impacted reaches sewer lines are analyzed based on LA County standards as follows:

Q = ZA (csf)

A = Tributary Area (acres)

Z = Zoning Coefficient (See Estimated Average Daily Sewage Flow for Various Occupancies) (csf/acre)

Flow from proposed site is calculated at 0.001 CFS/UNIT for condominiums units.

Existing Flow at Trunk Sewer Connection							
Cumulative Flow	0.0390 cfs						
Percent 3/4 Full	15.60%						

Proposed Flow at Trunk Sewer							
Connection							
Cumulative	0.1034 cfs						
Flow							
Percent 3/4	41.36%						
Full							
Percent	165%						
increase							

VIII. PROPOSED MITIGATION IF NECESSARY

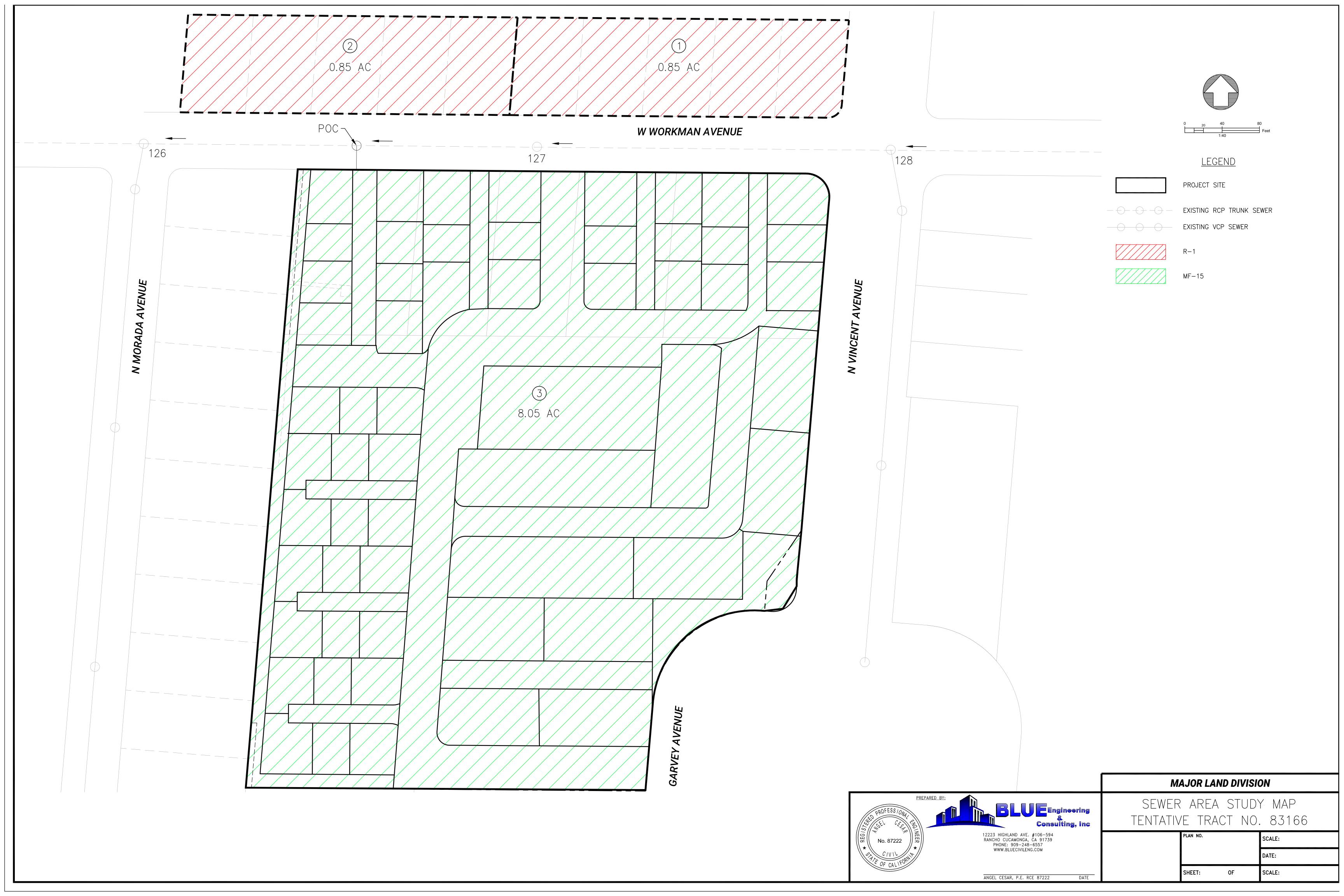
N/A

IX. CONCLUSION

Based on this Sewer Area Study, the existing sewer mainlines are adequate to serve the proposed project and no mitigation is required. Using the 3/4 flow analysis, the existing capacity to the trunk is at 15.60% and the proposed capacity will increase to 41.36%.



a. SEWER AREA MAP





b. SEWER CAPACITY CALCULATIONS

ZONING AND FLOW CALCULATIONS								
AREA NO.	ZONING	AREA/UNITS	COEFF.*	FLOW IN CFS				
1	R-1	0.85	0.004	0.0034				
2	R-1	0.85	0.004	0.0034				
3	R-1	8.05	0.004	0.0322				
3	MF-15	8.05	0.012	0.0966				

Pre Development
For Post Development

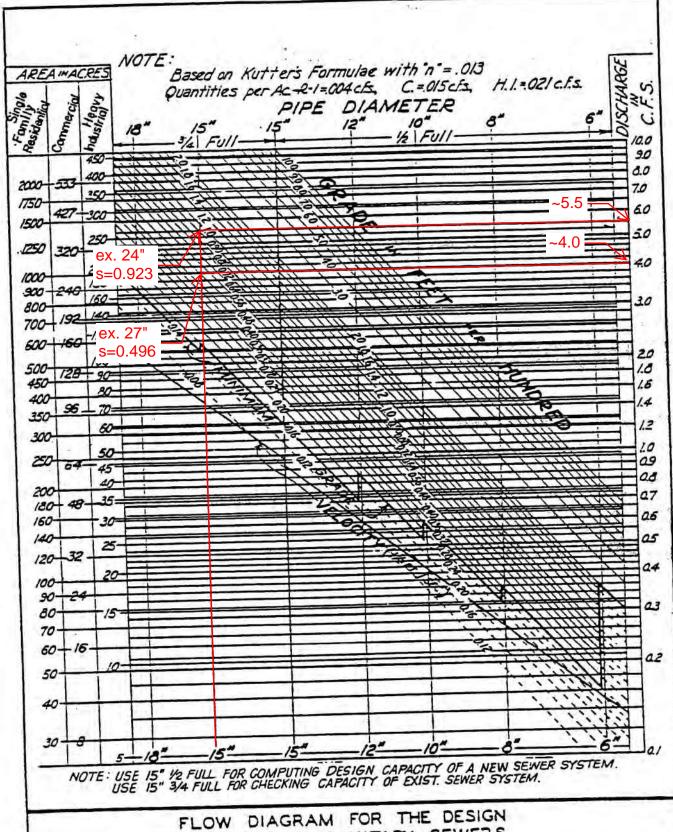
^{*}Coefficients obtained from LA County " Estimated Average Daily Sewage Flow": https://dpw.lacounty.gov/ldd/lddservices/sewerAreaStudy/sewerAreaStudy.shtml

TOTAL SEWAGE FLOW TO SEWER REACHES							
SEWER REACH	TRIBUTARY AREAS	TOTAL FLOW IN CFS					
MH 128 TO MH 127	1	0.0034					
MH 127 TO MH 126	2 and 3	0.0356					
MH 127 TO MH 126	2 and 3	0.1000					

Pre Development Post Development

	Segment		Pipe		*Cap	*Capacity (**Cumulative	PC or CI		%Full	
Street Name					1/2 Full	3/4 Full	Flow	Calculated	Construction	Comment	Cummulative Flow	Jurisdiction
	M.H. #	M.H. #	Size (in)	Slope (%)	(<15")	(>15")	(cfs)	Flow (cfs)	Plan #		/ Capacity	
W Workman Ave	128	127	24	0.923	N/A	5.5	0.0034	0.0034	22-P-4		1.87%	LA County
W Workman Ave	127	126	27	0.496	N/A	4.0	0.0356	0.0390	22-P-4	Under Capacity	15.60%	LA County
W Workman Ave	127	126	27	0.496	N/A	4.0	0.1000	0.1034	22-P-4	Under Capacity	41.36%	LA County

Pre Development Post Development



OF CIRCULAR SANITARY SEWERS

COUNTY ENGINEER

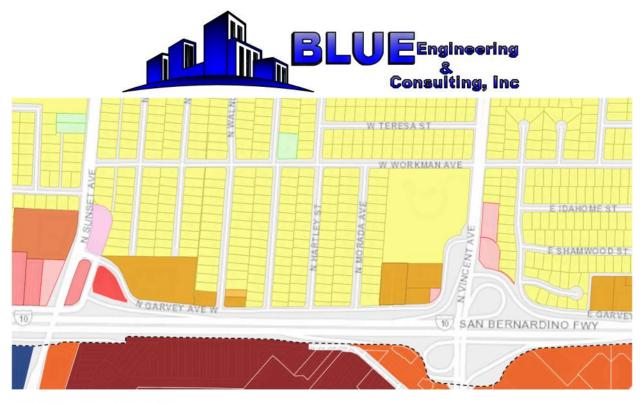
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

SEPUTY "

COUNTY ENGINEER STANDARD DATE: 3 /80

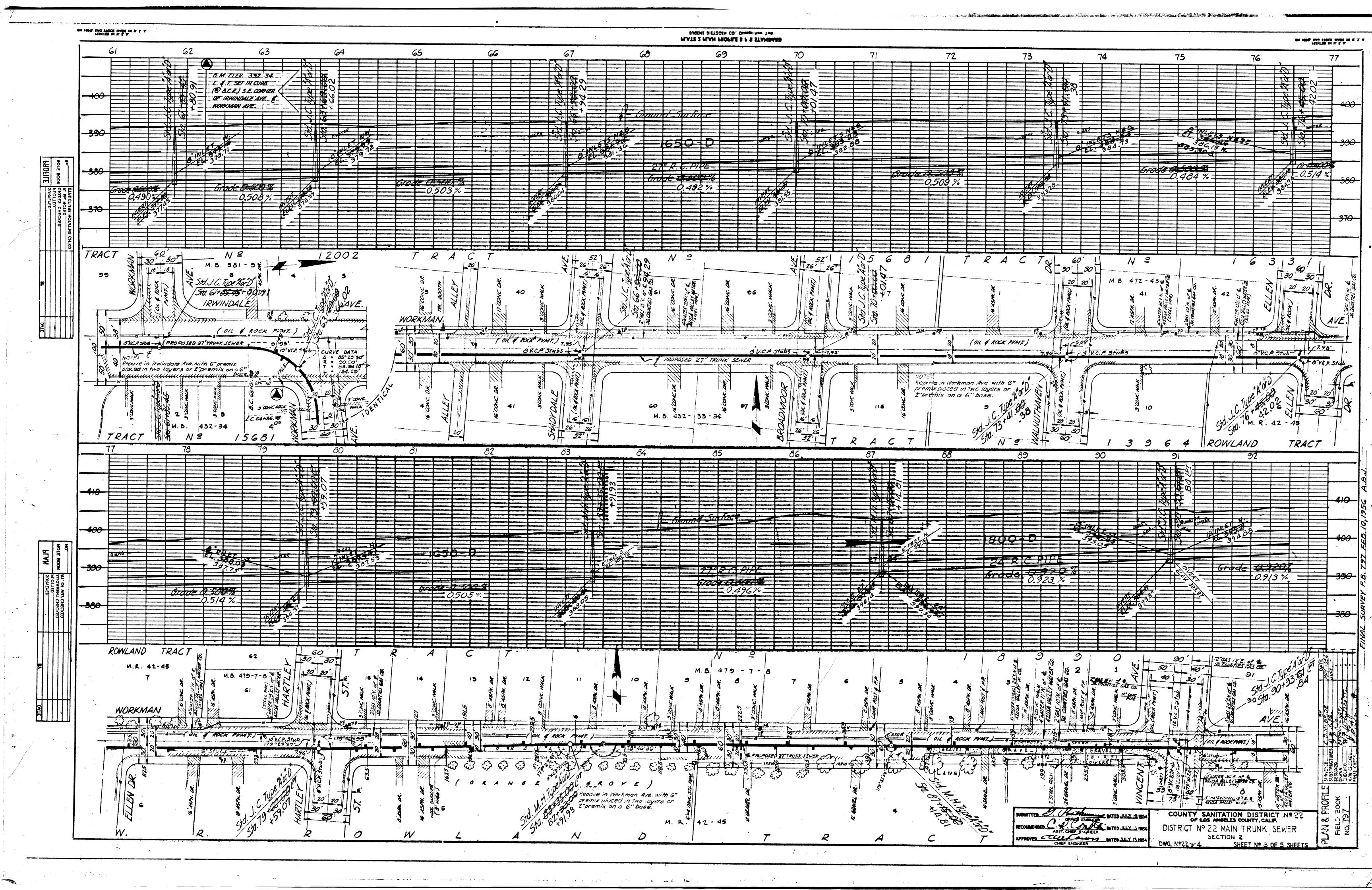


c. ALL SUPPORING PLANS/MAPS



City of West Covina Zoning Code

- R-A Residential Agriculture
- R-1 Residential Single Family
- R-A & R-1 Residential Agriculture and Residential Single Family
- MF-8 Residential 8 du/ac
- MF-15 Residential 15 du/ac
- MF-20 Residential 20 du/ac
- MF-45 Residential 45 du/ac
- N-C Neighborhood Commercial
- S-C Service Commercial
- R-C Regional Commercial
- C-2 Medium Commercial
- C-3 Heavy Commercial
- O-P Office Professional
- M-1 Manufacturing
- I-P Planned Industrial
- P-B Public Building
- O-S Open Space
- PCD-1 Planned Community Development
- SP Specific Plan



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EXISTING EASEMENTS TENTATIVE TRACT MAP NO. 83166 PARCEL AREA TABLE AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED OCTOBER 14, 1953 AS INSTRUMENT NO. 3599, IN BOOK 42917, PAGE 159 OF PARCEL # | AREA OFFICIAL RECORDS. IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A **COVERAGE** LOCATED IN THE CITY OF WEST COVINA OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA CORPORATION. AFFECTS A PORTION OF PARCEL 1 2,946 58.0% AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED 2,182 | 61.2% OCTOBER 14, 1953 AS INSTRUMENT NO. 3600, IN BOOK 42917, PAGE 160 OF OFFICIAL RECORDS. IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A 2,602 58.1% CORPORATION. AFFECTS A PORTION OF PARCEL 1. 2,767 13. AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED W. WORKMAN AVE. PROPOSED NEW 2,754 54.9% JANUARY 26, 1955 AS INSTRUMENT. NO. 3190, IN BOOK 46742, PAGE 167 OF DRIVEWAY PER SPPWC - N89°31'30"W - 794.37'" OFFICIAL RECORDS. IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A SRD_PLAN 110-2 2,250 67.3% CORPORATION. AFFECTS A PORTION OF PARCEL 1. 2,000 ■ N89°31′30″W 544.76′™ W WORKMAN AVE AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED ADA RAMP JANUARY 26, 1955 AS INSTRUMENT NO. 3191, IN BOOK 46742, PAGE 168 OF 2,803 61.0% OFFICIAL RECORDS. IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A 2,900 | 59.0% CORPORATION. AFFECTS A PORTION OF PARCEL 1. W GARVEY AVE (24) 2,000 15. AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED JANUARY 26, 1955 AS INSTRUMENT NO. 3192, IN BOOK 46742, PAGE 169 OF 3,364 45.0% OFFICIAL RECORDS. IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION. AFFECTS A PORTION OF PARCEL 1. 3,059 W COVINA PKWY 2,228 59.9% AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED FEBRUARY 2, 1955 AS BOOK 46806, PAGE 436 OF OFFICIAL RECORDS. IN 2,912 58.7% FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION. AFFECTS A PORTION 1. 3,232 52.9% **VICINITY MAP** 2,228 AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED N.T.S. AUGUST 13, 1959 AS INSTRUMENT NO. 3379 OF OFFICIAL RECORDS. IN FAVOR 2,734 55.3% OF SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION, AFFECTS A PORTION OF PARCEL 6. 2,745 55.3% 50' 2,000 PROPOSED EASEMENTS RECIPROCAL INGRESS/EGRESS EASEMENT FOR PUBLIC AND EMERGENCY 65.3% 2,617 20 ACCESS TO CITY OF WEST COVINA PRIVATE STREET PARCEL AREA TABLE N89°35'59"W 248.87' PUBLIC UTILITY EASEMENT DOMESTIC WATER ACCESS AND MAINTENANCE PURPOSES TO AZUSA LIGHT AND WATER. PARCEL # | AREA **COVERAGE** ADA PUBLIC UTILITY EASEMENT FOR SANITARY SEWER ACCESS AND MAINTENANCE 2,900 | 59.0% PURPOSES TO CITY OF WEST COVINA. PRIVATE MOTOR (55') COURT 'G' 2,000 **BENCHMARK** 2,454 | 61.7% CITY OF WEST COVINA BR DISC IN WEST CATCH BASIN SUNSET AVE. 39 FT W/O C/L & 6.6 FT S/O C/L PROD WORKMAN AVE MKD (BM NO 18) 43.5% 3,480 LACO MB G4452 16,962 S.F. 2,506 | 53.3% EL=394.833 NAVD88 PROJECT 7.9' OPEN SPACE BOUNDARY 3,082 | 55.5% (56) **BASIS OF BEARINGS** ⁴47' 20.7 2,631 57.5% THE BEARING N4°48'00" E OF THE C/L MORADA AVE. AS SHOWN ON THE MAP OF TRACT 42861 RECORDED IN BOOK 1028 PAGES 98 AND 99 OF MAPS, RECORDS OF 2,003 LOS ANGELES COUNTY WAS USED AS THE BASIS OF BEARING. (31) 2,443 | 61.9% **PROJECT SUMMARY** 9.5 2,625 | 57.6% MAIN ACCESS FROM WEST WORKMAN AVENUE EVA ACCESS FROM W. GARVEY AVENUE 2,000 66.8% BCOURT 'H' APN 8457-029-906 2,698 1024 W. WORKMAN AVENUE STREET ADDRESS: 2,898 | 52.2% WEST COVINA, CA 91790 PRIVATE ALLEY AND 2,003 66.7% **34** TOTAL NET DEVELOPABLE AREA 7.67 AC. **LEGEND** M.8 N89°35'59"W 282.40' NUMBER OF LOTS (RESIDENTIAL) 57 2,449 | 61.8% NUMBER OF LOTS (DETACHED) _____ RIGHT OF WAY LINE/ PROPERTY LINE 47' 31' 47' 2,670 | 56.7% NUMBER OF LOTS (ATTACHED) NUMBER OF H.O.A. OPEN SPACE CENTERLINE 2,002 | 66.7% NUMBER OF PRIVATE STREET LOTS - (101) -EXISTING CONTOUR NUMBER OF PRIVATE ALLEY LOTS 2,701 63.3% 2 ('L' & 'M') NUMBER OF LANDSCAPE LOTS PROPOSED CONTOUR 8,578 S.F. 2,945 | 51.4% TOTAL NUMBER OF MULTIFAMILY UNITS 72 119 EXISTING STORMDRAIN LINE TOTAL NUMBER OF UNITS 2,000 | 66.8% TOTAL GROSS AREA: 8.05 AC. EXISTING SEWER LINE COMMON OPEN SPACE PROVIDED 0.38 AC. (15,580 SF) PARCEL AREA TABLE EXISTING WATER LINE **NET DENSITY** 14.8 DU/AC **BUILDING COVERAGE:** 138,639 SF CITY OF WEST COVINA TO PROPOSED STORMDRAIN LINE PARCEL # | AREA GROSS BUILDING AREA: 201,192 SF ABANDON APPROXIMATELY SPRINKLER SYSTEM: NFPA 13D /1,814 S.F. OF VACANT LAND PROPOSED SEWER LINE 2,450 | 61.8% NUMBER OF STORIES 2-3 AVERAGE LOT SIZE (SFD) 2,544 PROPOSED WATER LINE 2,713 | 55.8% 2,000 MINIMUM LOT SIZE (SFH) 47' PROPOSED WATER METER 108' -2,003 | 66.7% AVERAGE LOT SIZE (MULTIFAMILY) 10,078 √22.1° 10'_ MINIMUM LOT SIZE (MULTIFAMILY) 6,552 PROPOSED HYDRANT ASSEMBLY PRIVATE ALLEY 'K' 2,697 | 63.4% EXISTING ZONING DESIGNATION: (R-1), AREA DISTRICT PROPOSED ZONING DESIGNATION: SPECIFIC PLAN SIGN 3,261 | 46.4% EDUCATION / DAYCARE EXISTING LAND USE POWER POLE 2,195 | 60.8% PROPOSED LAND USE RESIDENTIAL EXISTING GENERAL PLAN CIVIC: SCHOOL (S) 2,676 | 56.5% PROPOSED GENERAL PLAN A/C UNIT NEIGHBORHOOD MEDIUM \PRIVATE MOTOR COURT '. (9-20 DU/AC)6,552 N/A CATCH BASIN 7,325 | N/A **PARKING** $\langle XX \rangle$ 118' 268 TOTAL REQUIRED PARKING: LOT NUMBER 7,158 N/A 294 TOTAL PROVIDED NUMBER OF PARKING STALL: 7,856 | N/A GARAGE / DRIVEWAY PARKING: 242 PRIVATE STREET N89°35'59"W **GUEST PARKING:** | 12,844 | N/A AND FIRE LANE 'B' 205.96' PARALLEL PARKING ON WORKMAN: 21 7,753 N/A COMMON OPEN SPACE 7,070 | N/A 17,850 SF TOTAL REQUIRED: N89°31'30"W 428.17' PROJECT BOUNDARY 25,540 SF TOTAL PROVIDED: | 6,998 | N/A | 10,886 | **ABBREVIATIONS** 12,924 N/A 57 **MAJOR LAND DIVISION** TENTATIVE TRACT MAP HORIZONTAL CONTROL ASPHALT CONCRETE INV INVERT AMERICAN DISABILITY ACT LOW POINT BACK OF WALK BEGIN CURB RETURN PLANTER AREA PAVEMENT CENTER LINE PCC PORTLAND CEMENT CONCRETE END CURB RETURN P/L EXISTING GROUND PROPERTY LINE ELEVATION RIGHT OF WAY EDGE OF PAVEMENT 12223 HIGHLAND AVE. #106-594 STORM DRAIN RANCHO CUCAMONGA, CA 91739 FINISH FLOOR No. 87222 SERVICE PHONE: 909-248-6557 FINISH GROUND SQUARE FEET WWW.BLUECIVILENG.COM FLOWLINE SANITARY SEWER FINISH SURFACE STA STATION GRADE BREAK STANDARD 7-28-2020 HIGH-DENSITY POLYTHEYLENE TOP OF CURB

HIGH POINT



SCALE 1" = 40' GENERAL NOTES:

1. SEWER DISPOSAL TO BE BY SANITARY SEWER PROVIDED BY THE CITY OF WEST COVINA. ALL SANITARY SEWER PROPOSED WILL BE

2. WATER PURVEYOR IS AZUSA LIGHT & WATER. ALL WATER LINES PROPOSED WILL BE PUBLIC.

3. A HOMEOWNERS ASSOCIATION SHALL BE FORMED TO MAINTAIN THE PRIVATE DRIVEWAY, PRIVATE ALLEYS,

FIRE LANES AND LANDSCAPING/COMMON AREAS.

4. ALL EXISTING UTILITIES,

IMPROVEMENTS, AND STRUCTURES WITHIN THE BOUNDARY OF THIS TENTATIVE TRACT MAP WILL BE DEMOLISHED AND REMOVED FROM THE SITE. EXISTING UTILITY CONNECTIONS THROUGH THE TENTATIVE MAP BOUNDARY SHALL BE MAINTAINED THROUGHOUT ALL CONSTRUCTION PHASES AND FINAL PROJECT CONDITIONS.

5. VACATE SCE EASEMENT 17 ON TITLE REPORT ON THE FINAL MAP.

6. MINIMUM PRIVATE STREET AND ALLEY GRADE IS 0.5%.

7. ALL FINISH FLOOR ELEVATIONS SHALL BE HIGHER THAN NEAREST DOWNSTREAM SEWER MANHOLE RIM ELEVATION. IF NOT, A SEWER BACK-FLOW DEVICE WILL BE REQUIRED ON ALL SEWER LATERALS THAT DO NOT MEET THIS REQUIREMENT.

8. ALL PROPOSED UTILITIES WILL BE UNDERGROUND.

9. DEVELOPMENT TO INCLUDE NEW DRIVEWAY APPROACH PER SPPWC STANDARD PLAN 110-2.

10. DEVELOPMENT INCLUDES CLOSING EXISTING DRIVEWAY APRON ALONG PROJECT FRONTAGE THAT WILL NOT BE USED. IMPROVEMENTS TO MATCH REQUIRED ADJACENT SECTIONS.

11. IMPROVEMENTS ALONG PROJECT FRONTAGE TO INCLUDE REMOVAL AND REPLACE BROKEN AND OFF GRADE SIDEWALK, CURB AND GUTTER IN ACCORDANCE WITH SPPWC STANDARD PLAN 113-2 AND 120-2 RESPECTIVELY.

12. DEVELOPMENT TO REPLACE EXISTING CURB RAMP AT THE CORNER OF WORKMAN AVE AND VINCENT AVENUE WITH NEW CURB RAMP PER SPPWC STANDARD PLAN 111-5.

13. ACCESS RIGHTS TO INTERIOR LOTS AND PRIVATE STREETS FROM PUBLIC ROADWAYS SHALL BE DEDICATED TO THE CITY OF WEST COVINA.

APPLICANT/DEVELOPER:

MLC HOLDINGS, INC. 5 PETERS CANYON ROAD SUITE 310 IRVINE, CA 92606 ATN: MATT MAEHARA 949-372-3310

ARCHITECT: KEVIN L. CROOK ARCHITECTS, INC

CONTACT JEFF ADDISON 1360 REYNOLDS AVENUE SUITE 110 IRVINE, CA 92614

LANDSCAPE ARCHITECT: STUDIO PAD, INC

CONTACT: PETER DUARTE

23276 S. POINTE DR., STE 103 LAGUNA HILLS, CA 92653

OWNER: COVINA VALLEY UNIFIED SCHOOL

DISTRICT 1024 W. WORKMAN AVE,

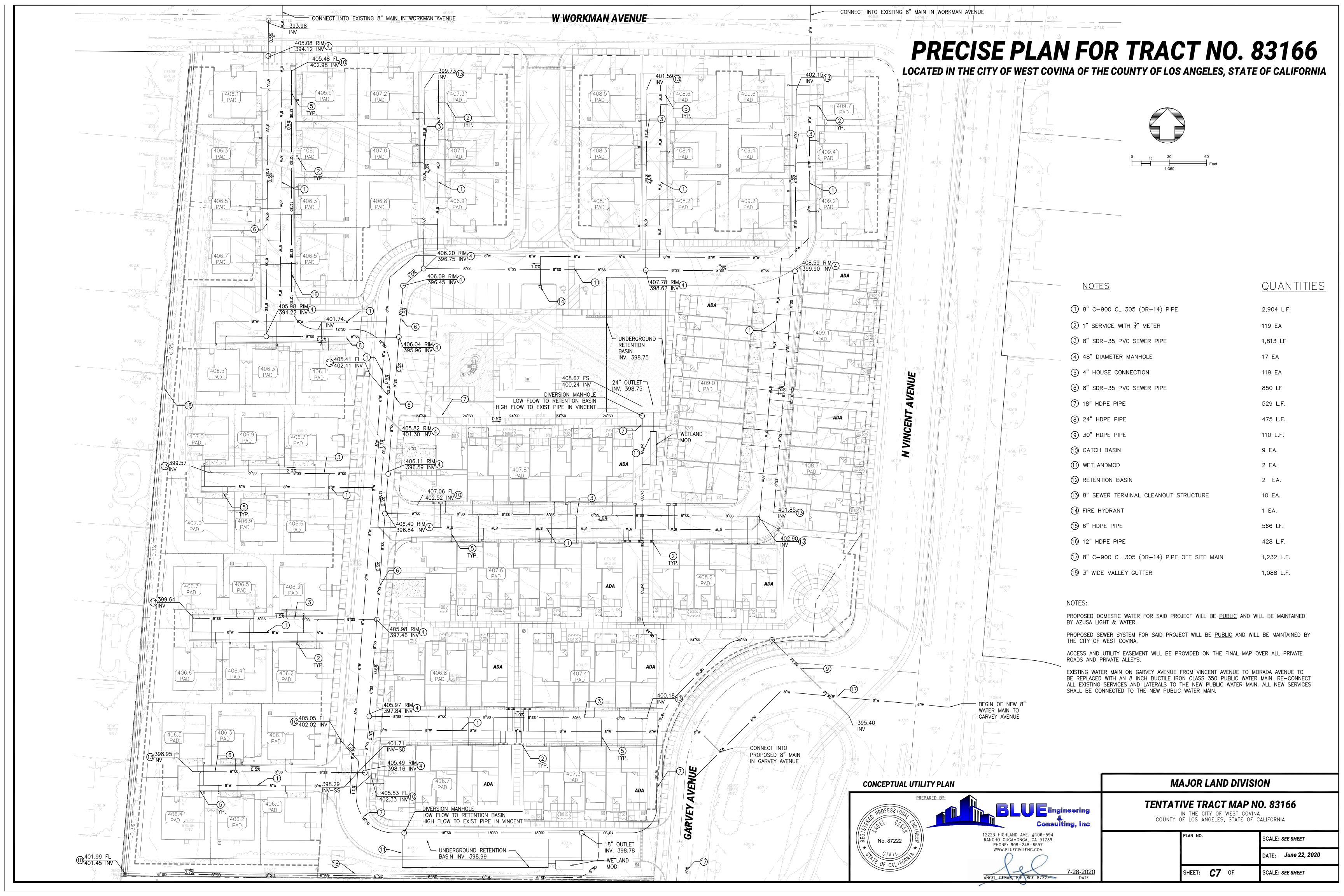
WEST COVINA, CA 91790

TENTATIVE TRACT MAP NO. 83166

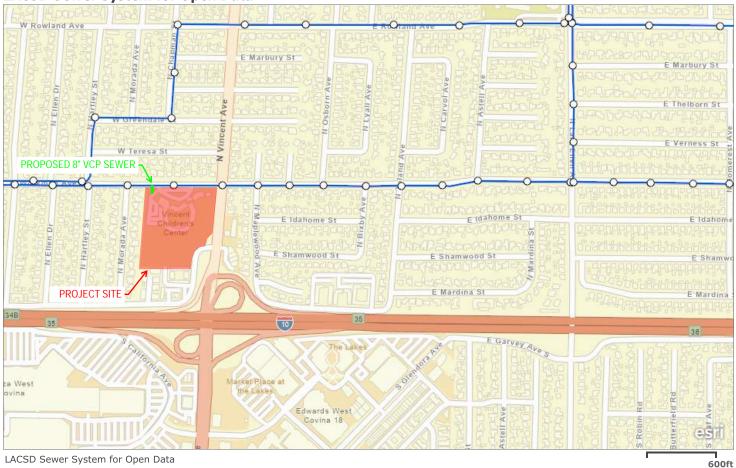
IN THE CITY OF WEST COVINA COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

ANGEL CESAR, P.E. RCE 87222

SCALE: 1" = 40' DATE: **July 28, 2020** SHEET: **C1** OF



LACSD Sewer System for Open Data



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