



Mission Grove Apartments Project

Draft Environmental Impact Report
SCH#2022100610

Appendix J: Sewer Capacity Study

MISSION GROVE APARTMENTS SEWER STUDY

Date: 11/23/2022

Project No.: 201644

City of Riverside

Prepared By: Michael Wetterau

Reviewed By: Graham Juby

Subject: Mission Grove Apartments – City of Riverside: Sewer Study

Background

Anton Mission Grove, LLC (Applicant) plans to redevelop an area with mixed use-urban land use in the City of Riverside (City), California. The planned project, Mission Grove Apartments (Development), is located Northwest of Mission Grove Parkway and Mission Village Drive intersection. A copy of the Development's site plan is included as Attachment A. The purpose of this study is to understand the impact that the Development could have on the City's wastewater collection system. A hydraulic evaluation was completed by updating the hydraulic model developed as part of the City's 2020 *Update of the Integrated Master Plan for the Wastewater Collection and Treatment Facilities* (Master Plan Update). This memorandum describes the model update, evaluation criteria, and hydraulic evaluation.

Model Update

The hydraulic model developed by Carollo Engineers, Inc. (Carollo) included pipelines that are 10 inches in diameter and larger. Some smaller-diameter sewers (8 inches in diameter and smaller) are also included in the hydraulic model, where needed, for connectivity. The major model updates for the purpose of this analysis included updating wastewater flows, extending the hydraulic model, and the point of connection in the hydraulic model.

The Development consists of approximately 9.9 acres of mixed use-urban land use. The proposed development land use differs from the 2019 General Plan of commercial. The new average dry weather flow (ADWF) from the Development was developed by Carollo using the same method as in the Master Plan Update and is summarized in Table 1. For the hydraulic evaluation, the net additional loads associated with the project were allocated to the modeled manhole as ADWF. It was assumed that there was a change in the rain derived inflow and infiltration (RDII) during a wet weather flow (WWF) event due to the development during the existing conditions.

During the hydraulic model build, the ADWF and RDII was connected to Manhole (MH) 9O179, which is where the Developers site plan shows the development connecting to, as shown on Figure 1. The 8-inch sewers downstream of MH 9O179 were not included in the City's model, but eventually discharge to MH 9O177, which is part of the City's model. The hydraulic model was updated to include the 8-inch pipe segments between MH 9O179 and MH 9O177, shown in purple on Figure 1. The existing model loads were reallocated along the added in pipelines. The sewer between the proposed Development and MH 9O179 is noted as an 8-inch line but was not included in the City's GIS.

DRAFT PROJECT MEMORANDUM

Table 1 Dry Weather Flow – Summary

	Acre (ac)	Flow Factor ⁽¹⁾ (gpd/ac)	ADWF (gpd)
Master Plan Update	9.9	710	7,029
Proposed Development	9.9	3,200	31,680
Net Additional Flows	--	--	24,651

Notes:

Abbreviations: ac – acre; gpd – gallons per day; gpd/ac – gallons per day per acre.

(1) Source: Update of the Integrated Master Plan for Wastewater Collection and Treatment Facilities.

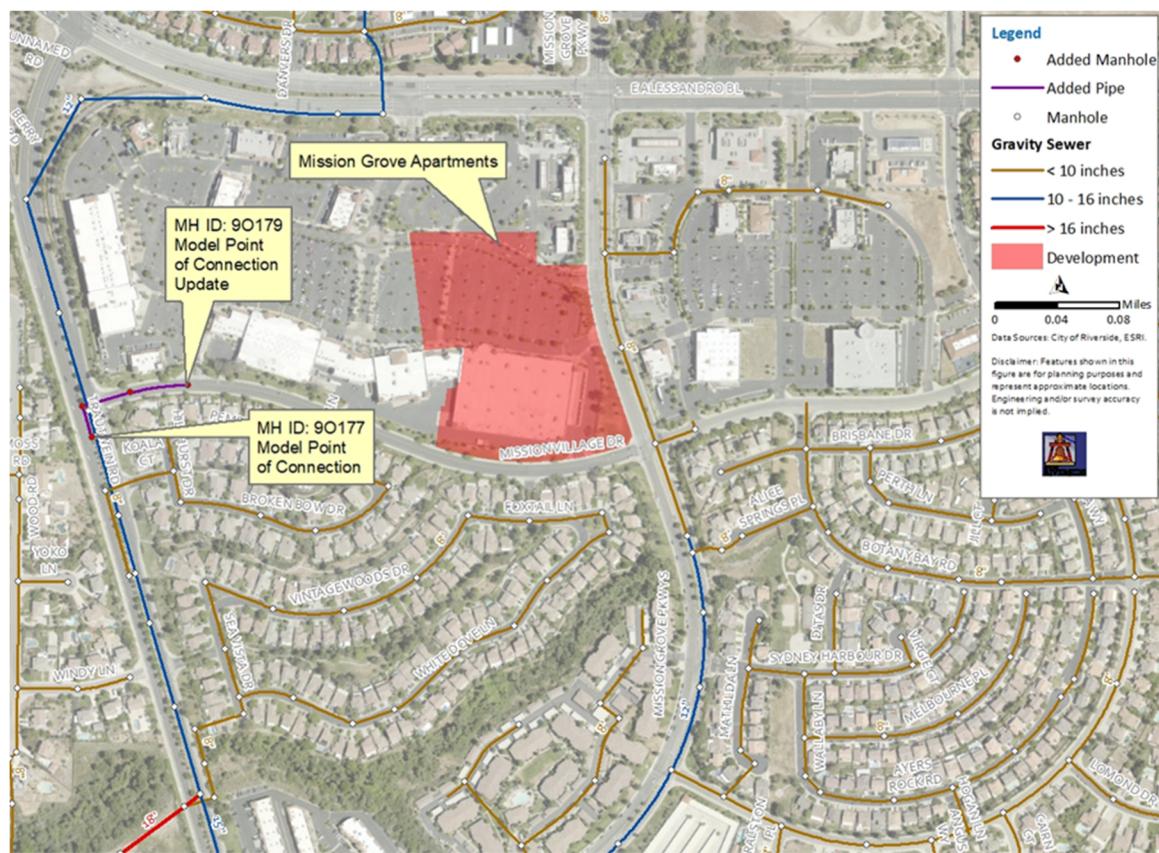


Figure 1 Vicinity Map

Evaluation Criteria

The evaluation criteria used in this study are consistent with the evaluation criteria used in Volume 3, Chapter 5: Planning Criteria and Design Flows (Chapter 5) of the Master Plan Update. This section provides a brief description of the evaluation criteria used in this study.

The primary criterion used to identify capacity-deficient sewers or to size new sewer improvements is the maximum d/D. The d/D value is defined as the depth of flow (d) in a pipe during peak (design) flow conditions divided by the pipe's diameter (D). The maximum depth criteria were evaluated under peak wet weather flow (PWWF) conditions. The PWWF design storm is a 10-year 24-hour storm event. The maximum depth criteria are summarized in Table 2. The following explains these criteria in more detail:

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- **Flow Depth for Existing Sewers.** Maximum flow depth criteria for existing sanitary sewers are established based on several factors, including the acceptable risk tolerance of the utility, local standards and codes, and other factors. Using a conservative d/D ratio when evaluating existing sewers may lead to unnecessary replacement of existing pipelines. Conversely, lenient flow depth criteria could increase the risk of sanitary sewer overflows (SSOs). Ultimately, the maximum allowable flow depth criteria should be established to be as cost-effective as possible while at the same time reducing the risk of SSOs to the greatest extent possible. For the City, existing pipelines were flagged if the d/D exceeded 0.90.
A capacity-deficient sewer (i.e., system bottleneck) raises the hydraulic grade line of upstream sewers, leading to backwater conditions. The greater the capacity deficiency, the higher water levels will surcharge upstream of the bottleneck pipeline (or pipelines). The hydraulic model is used to determine “backwater” pipelines to specify which specific pipelines are the actual root causes of the capacity deficiency. Capital projects are proposed to provide greater flow capacity for the deficient sewers, which eliminates the backwater conditions that cause surcharging.
- **Flow Depth for New Sewers.** When sizing new sewer pipelines, it is common practice to adopt different flow depth criteria for various pipe sizes. Design d/D ratios typically range from 0.5 to 0.92, with the lower values typically used for smaller pipes, which may experience flow peaks greater than design flow or blockages from debris, paper, or rags. The recommended d/D criteria for sizing new trunk lines are also summarized in Table 2. For pipelines 10 inches and smaller in diameter, the maximum d/D value is 0.5 or 50 percent of the pipeline depth. For pipelines that are 12 inches to 18 inches in diameter, the recommended maximum d/D is 0.67. For pipelines larger than 18 inches in diameter, the maximum d/D is 0.75.

Table 2 Maximum Flow Depth Criteria

Pipe Diameter (inches)	Maximum d/D Ratio (during PWWFs)
Maximum d/D for Existing Sewer	
All Pipes	0.90
Maximum d/D for New Sewers	
10 Inches and Smaller	0.50
12 Inches to 18 Inches	0.67
Larger Than 18 Inches	0.75

Hydraulic Evaluation

A capacity analysis entails identifying areas in the sewer system where flow restrictions occur or where pipe capacity is insufficient to convey PWWFs. Sewers that lack sufficient capacity to convey PWWFs create bottlenecks in the collection system that can potentially cause SSOs. This section discusses the impacts of the development and confirms if the recommended improvement project sizing developed in the Master Plan Update are still adequately sized.

Existing Hydraulic Evaluation

For the existing sewer collection system, the PWWF was routed through the hydraulic model along with the changes to the point of connections for ADWF and RDII. The purpose of the existing system evaluation is to verify that the existing system is appropriately sized to convey existing PWWFs plus the additional flows from the proposed land use change. The Master Plan Update did not identify improvements downstream of

DRAFT PROJECT MEMORANDUM

the Development under existing conditions. The hydraulic analysis showed that the proposed Master Plan Update's existing system is adequately sized for the proposed change in land use type.

Future Hydraulic Evaluation

The analysis of the future system was performed in a manner like the existing system analysis. The purpose of the future system evaluation is to verify that the future system improvements were appropriately sized to convey future PWWFs and to identify the locations of existing sewers that are adequately sized to convey existing PWWFs but cannot convey future PWWFs. The Master Plan Update identified one future system improvement downstream of the Development which is listed below.

- **New Parallel Trunk to Santa Ana Trunk Sewer (Project GM-34).**

This project is identified on Figure 2. The timing of growth under future conditions is expected to occur within the planning horizon of this Master Plan Update, which is the year 2037. As flows continue to increase in the future, there will be some areas of the collection system that cannot convey the future PWWF without flows exceeding capacity. The future capacity evaluation, including the proposed Development, did not identify new system deficiencies not already identified in the Master Plan Update or the existing hydraulic evaluation discussed above. The hydraulic analysis showed that the proposed Master Plan Update's future project is adequately sized for the proposed redevelopment.

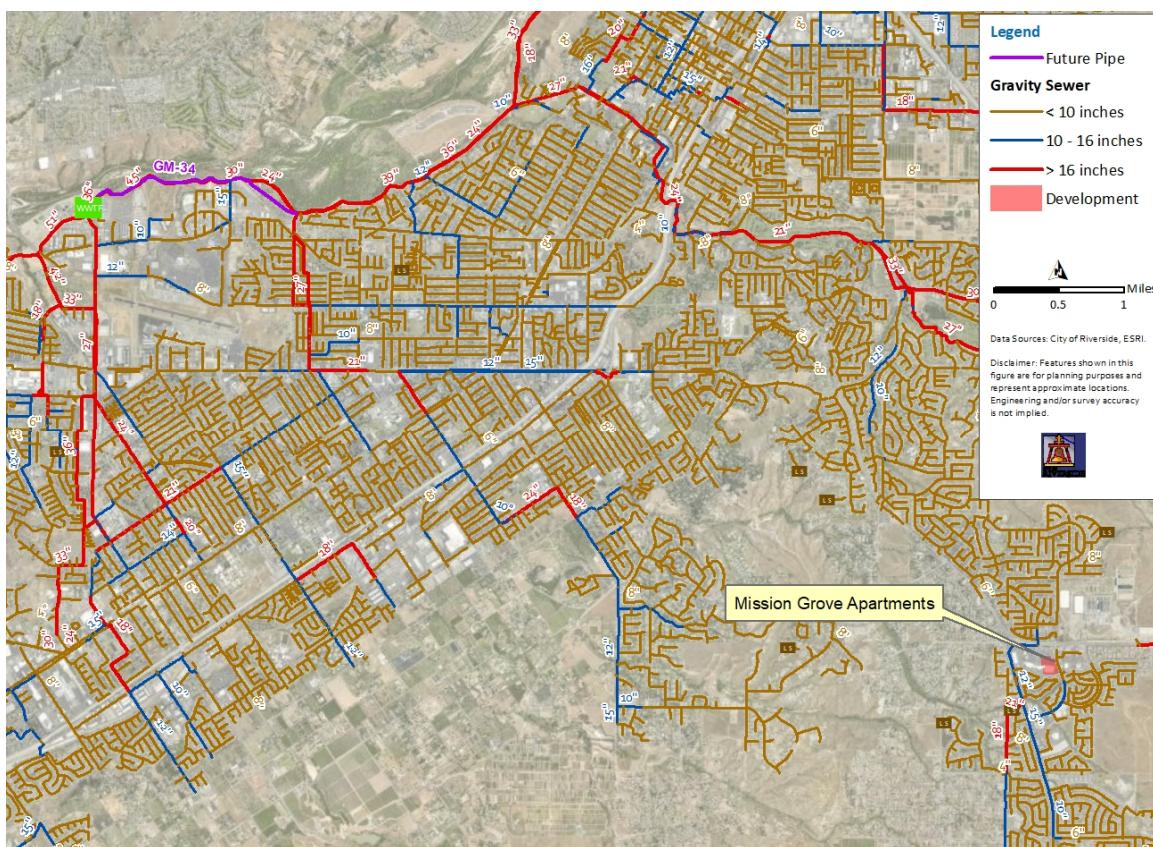


Figure 2 Future System Improvements Identified in the Master Plan Update

DRAFT PROJECT MEMORANDUM

Lift Station Capacity Analysis

The Wood Road Lift Station is downstream of the proposed Development. In accordance with the established planning criteria, the downstream lift station was evaluated to determine if it has sufficient capacity to convey the maximum projected inflow from the 10-year 24-hour design storm under existing and future conditions. A lift station with an influent peak inflow above firm pumping capacity (pumping capacity with the largest pump out of service) is flagged as deficient. Table 3 summarizes the modeled lift station capacity analysis. It was determined that the Wood Road Lift Station has sufficient capacity to meet existing peak inflow and future peak inflow with the proposed Development.

Table 3 **Lift Station Capacity Analysis**

Lift Station	Existing Firm Capacity ⁽¹⁾⁽²⁾ (mgd)	Existing Peak Inflow ⁽³⁾ (mgd)	Future Peak Inflow ⁽⁴⁾ (mgd)	Existing Balance (mgd)	Future Balance (mgd)
Wood Road	6.91	5.64	6.43	1.27	0.48

Notes:

- (1) Source: City of Riverside Sewer Plans - <https://wam.riversideca.gov/PWSurvey/sewer.asp> & Regional Water Quality Control Plant Wastewater Lift Station Assessment January 2009.
- (2) Firm capacity is defined as the lift station capacity with the largest pump not operational.
- (3) Existing Peak Inflow is based on the hydraulic model's maximum flow into the wet well during the 10-yr 24-hr design storm under existing conditions.
- (4) Future Peak Inflow is based on the hydraulic models' maximum flow into the wet well during the 10-yr 24-hr design storm under build out conditions.

Conclusion

The evaluations showed that the Master Plan Update's proposed improvement project is adequate to meet the requirements of the proposed Development for areas included in the City's hydraulic model. As a result, no changes to the Master Plan Update are recommended to mitigate this proposed land use change.

Attachment: Attachment A

cc: Mr. Chris Scully, City of Riverside

Attachment A

**MISSION GROVE APARTMENTS CITY OF RIVERSIDE
SEWER STUDY**



SHEET INDEX

SHEET	DESCRIPTION
G1.0	COVER SHEET
G1.1	PROJECT INFORMATION
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A1.1	CONCEPTUAL ARCHITECTURAL SITE PLAN
A1.2	PARKING ALLOCATION PLAN
A1.3	FIRE ACCESS PLAN
A1.4	OPEN SPACE PLAN
A2.0	BUILDING A COMPOSITE PLAN
A2.0.1	BUILDING A COMPOSITE COLORED ELEVATIONS
A2.0.2	BUILDING A COMPOSITE B/W ELEVATIONS
A2.1	BUILDING B COMPOSITE PLAN
A2.1.1	BUILDING B COMPOSITE COLORED ELEVATIONS
A2.1.2	BUILDING B COMPOSITE B/W ELEVATIONS
A2.2	BUILDING C COMPOSITE PLAN
A2.2.1	BUILDING C COMPOSITE COLORED ELEVATIONS
A2.2.2	BUILDING C COMPOSITE B/W ELEVATIONS
A2.3	BUILDING D COMPOSITE PLAN
A2.3.1	BUILDING D COMPOSITE COLORED ELEVATIONS
A2.3.2	BUILDING D COMPOSITE B/W ELEVATIONS
A2.4	BUILDING E COMPOSITE PLAN
A2.4.1	BUILDING E COMPOSITE COLORED ELEVATIONS
A2.4.2	BUILDING E COMPOSITE B/W ELEVATIONS
A4.0	UNIT PLANS
A5.0	COLORS AND MATERIALS
A6.0	CARPORTS, PARKING, AND TRASH CHUTE DETAILS
L.1	LIFESTYLE IMAGERY
L.2	CONCEPTUAL LANDSCAPE PLAN
L.3	POOL COURTYARD ENLARGEMENT
L.4	HYDROZONE IRRIGATION PLAN
L.5	PLANT PALLET AND NOTES
L.6	WALL AND FENCE PLAN
L.7	WALL AND FENCE DETAILS
L.8	RETAIL PORTAL GATE ELEVATION
L.9	SECTION AT CARPORT AT MISSION VILLAGE DRIVE
L.10	LIGHTING PLAN
LTG.01	SHEET INDEX, NOTES, ABBREVIATIONS, AND SYMBOLS
LTG.02	SITE PHOTOMATRICS
C-1	PLOT PLAN
C-2	DEMO PLAN
C-3	PRELIMINARY GRADING PLAN
C-4	SITE SECTIONS
C-5	PRELIMINARY COMPOSITE UTILITY PLAN

Project Team

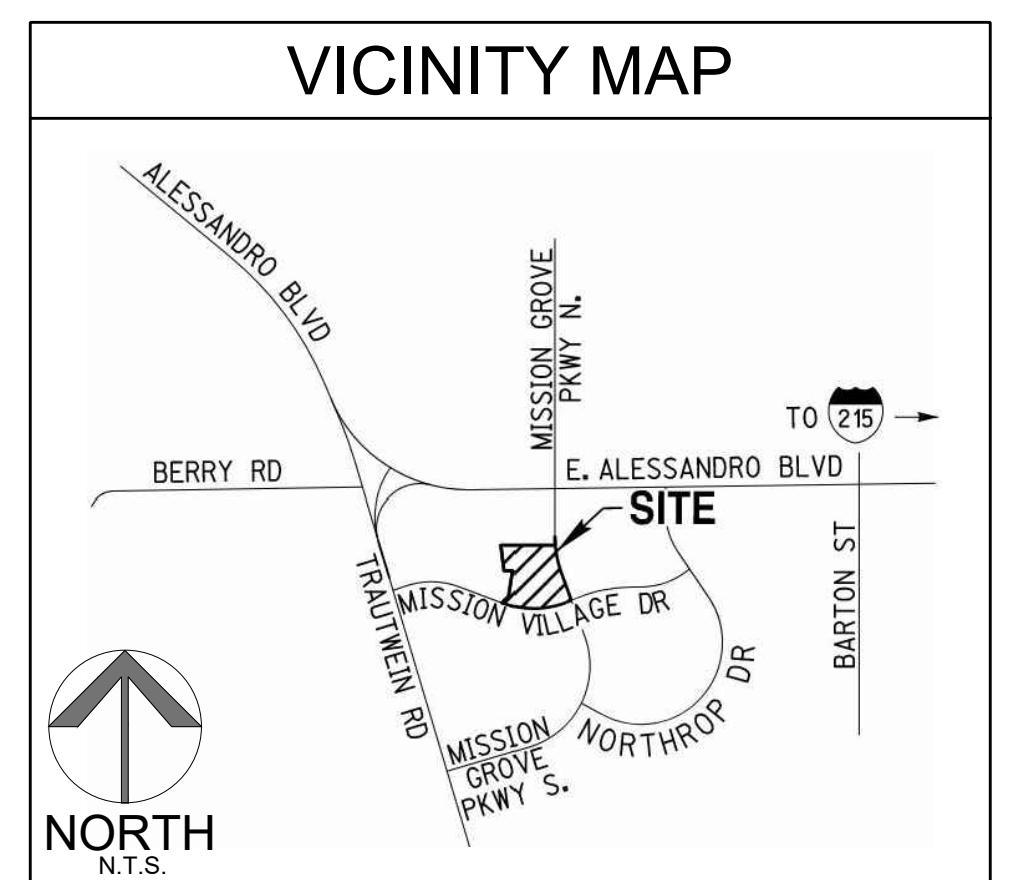
APPLICANT
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Orange, CA 92866
(714) 639-9860
Contact: SERAFIN MARANAN

LANDSCAPE ARCHITECT
MJS DESIGN GROUP
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Newport Beach, CA 92663
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Contact: MARK SCHATTINGER
DAN DELLE

CIVIL ENGINEER
RICK ENGINEERING COMPANY
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Riverside, CA 92507
(951) 782-0707
Contact: KRISTIN WERKSMAN

LIGHTING CONSULTANT
JS & ASSOCIATES
535 Princeland Court
Corona, CA 92879
(951) 340-2475
Contact: SAM GODAR



ANTON
DEV CO

MISSION GROVE APARTMENTS
Riverside, CA
Anton Mission Grove, LLC

MJS
LANDSCAPE
ARCHITECTURE

RICK
ENGINEERING COMPANY

JSA
JS & ASSOCIATES

COVER SHEET

AO
Architecture.
Design.
Relationships.

G1.0

PROJECT DESCRIPTION

A 347 UNIT APARTMENT PROJECT CONSISTING OF 4-STORY TYPE V-A WITH TUCK-UNDER PARKING

GROSS LAND AREA:	9.92 AC
TOTAL UNITS:	347 DU
DENSITY:	35 DU/AC
F.A.R.	0.97
LOT COVERAGE	0.36
ARCHITECTURAL STYLE:	CONTEMPORARY SPANISH
ASSESSOR'S PARCEL NUMBER	276-110-018
EXISTING GENERAL PLAN LAND USE DESIGNATION	COMMERCIAL
PROPOSED GENERAL PLAN LAND USE DESIGNATION	MIXED USE-URBAN
EXISTING ZONING	COMMERCIAL RETAIL
PROPOSED ZONING	MIXED USE-URBAN

BUILDING SUMMARY															
Four-Story Tuck-under Residential															
BUILDING	STUDIO	1 BR				1 BD + DEN			2 BR				3 BR	TOTAL	
S1	A1	A2	A3	A3A	A5	A1A	A1B	A4	B1	B2	B3	B4	B5	B6	C1
A	9	11	12	2			3		24	3	11	2			79
B	12	10		21					18	3	7	8			79
C	4	9		9		1			3		9	11	8	3	57
D	4	13		8					9		8			3	53
E	4	10		18			3		12	18	14			8	79
	24	51	11	68	2	1	3	6	30	63	3	51	18	3	10
TOTAL	24														347
	6.9%	14.7%	3.2%	19.6%	0.6%	0.3%	0.9%	1.7%	8.6%	18.2%	0.9%	14.7%	5.2%	0.9%	0.9%
	7%														2.9%
															100%
															2.9%

Parking Summary - Required Parking					
Unit Type	Number of Units	Required		15% Reduction for Req. Dedication Res. Parking	
		Ratio	Total Stalls	Ratio	Total Stalls
Studio	24	1.00	24		
1 BR	133	1.50	200		
1 BR + DEN	39	2.00	78		
2 BR	141	2.00	282		
3 BD	10	2.00	20		
Total Residential	347		604		
Total Required		1.74	604	1.48	513

Accessible Stalls:			Required Accessible	Provided Accessible
Dwelling Stalls Residential	513	2%	10,2595	=11 Req'd
Accessible Van Parking	1 per 6 H/C stalls		9 H/C + 2 H/C van stalls	2

Parking Summary - Provided Parking			
Parking Type	Total Provided	Total	Total
Dedicated Secured - 1 Car Garage	84		
Dedicated Secured - 2 Car Tandem	40		
Dedicated Secured - 1 Car Garage (Tandem)	58		
Dedicated Secured - Tandem	58		
Dedicated Secured - Carports	185		
Dedicated Secured - Standard Stalls	26		
Dedicated Unsecured - Standard Stalls	41		
Dedicated Unsecured - Compact Stalls	2		
Dedicated Unsecured - Carports	19		
Shared Parking	91		91
Total Provided	604	513	604

(E.V.C.S.) ELECTRIC VEHICLE STALLS REQUIRED (9' x 18')			
QUAN.	RATIO	REQ'D	
E.V.C.S. - RESIDENTS	513	0.10	52
E.V.C.S. - LEASING	0	TABLE 5.106.5.3.3	0
TOTAL EVCS STALLS REQUIRED (INCLUDED IN TOTAL PARKING COUNT)		52	
(E.V.C.S.) ELECTRIC VEHICLE ACCESSIBLE STALLS REQUIRED (9' x 18')	QUAN.	RATIO	REQ'D
E.V.C.S. - RESIDENTS	52	0.10	6
E.V.C.S. - LEASING	0	TABLE 11B-228.3.2.1	0
TOTAL ELECTRIC VEHICLE STALLS REQUIRED (INCLUDED IN E.V.C.S. PARKING COUNT)		6	
Bikes Requirements	Required	Provided	
Short-term	604	5%	30.2 =31 Req'd
Long-term	604	5%	30.2 =31 Req'd
			35

UNIT SUMMARY				
Unit	Unit SF	Qty.	SF TOT.*	
S1	594	24	14,256	
A1	765	51	39,015	
A2	748	11	8,228	
A3	784	68	53,312	
A3A	784	2	1,568	
A5	967	1	967	
A1A	874	3	2,622	
A1B	917	6	5,502	
A4	881	30	26,430	
B1	1,086	63	68,418	
B2	1,240	3	3,720	
B3	1,164	51	59,364	
B4	1,256	18	22,608	
B5	1,337	3	4,011	
B6	1,057	3	3,171	
C1	1,384	10	13,840	
Avg.	942	347	327,032	

* RESIDENTIAL UNIT NET AREA

PRIVATE OPEN SPACE PROVIDED			
Unit	Deck SF	Qty.	SF TOT.*
S1	50	24	1,200
A1	64	51	3,264
A2	54	11	594
A3	64	68	4,352
A3A	50	2	100
A5	64	1	64
A1A	56	3	168
A1B	52	6	312
A4	66	30	1,980
B1	64	63	4,032
B2	64	3	192
B3	64	51	3,264
B4	56	18	1,008
B5	64	3	192
B6	67	3	201
C1	60	10	600
Avg.	62	347	21,523

* RESIDENTIAL BALCONY AREA

BUILDING AREA (GSF)					
Building Type	Level 1	Level 2	Level 3	Level 4	Total
A	30750	26387	31712	31712	120561
B	24164	23647	23647	95105	
C	18930	19642	19642	77856	
D	17214	18217	18217	71	

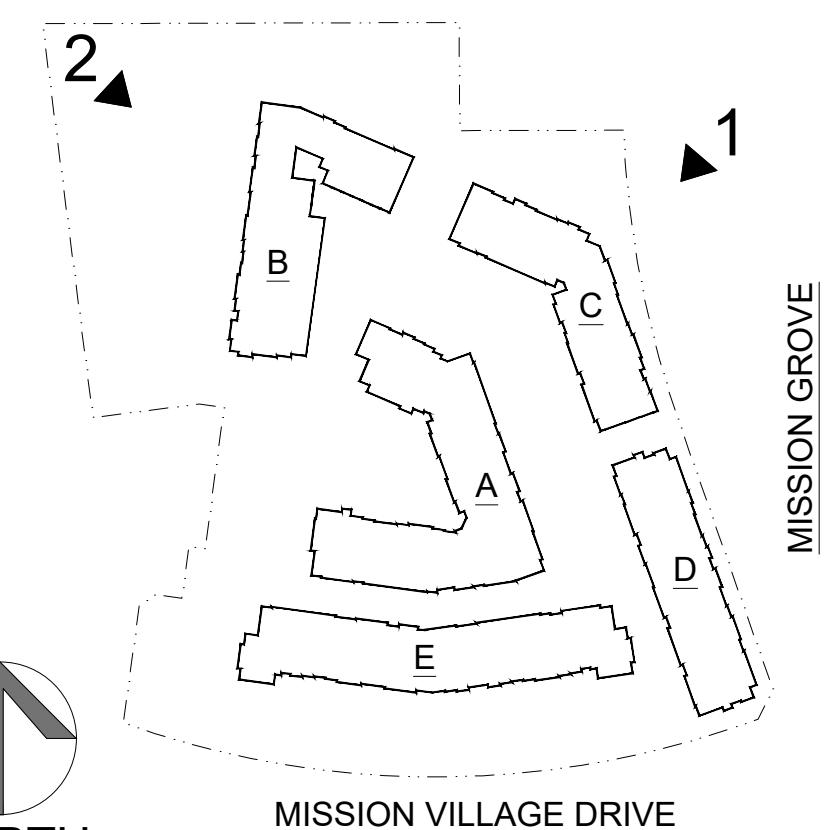


View 1: Looking South-West from Mission Grove Project Entry



View 2: Looking South-East from Existing Retail Parking

KEY MAP



ANTON
DEV CO

MISSION GROVE APARTMENTS

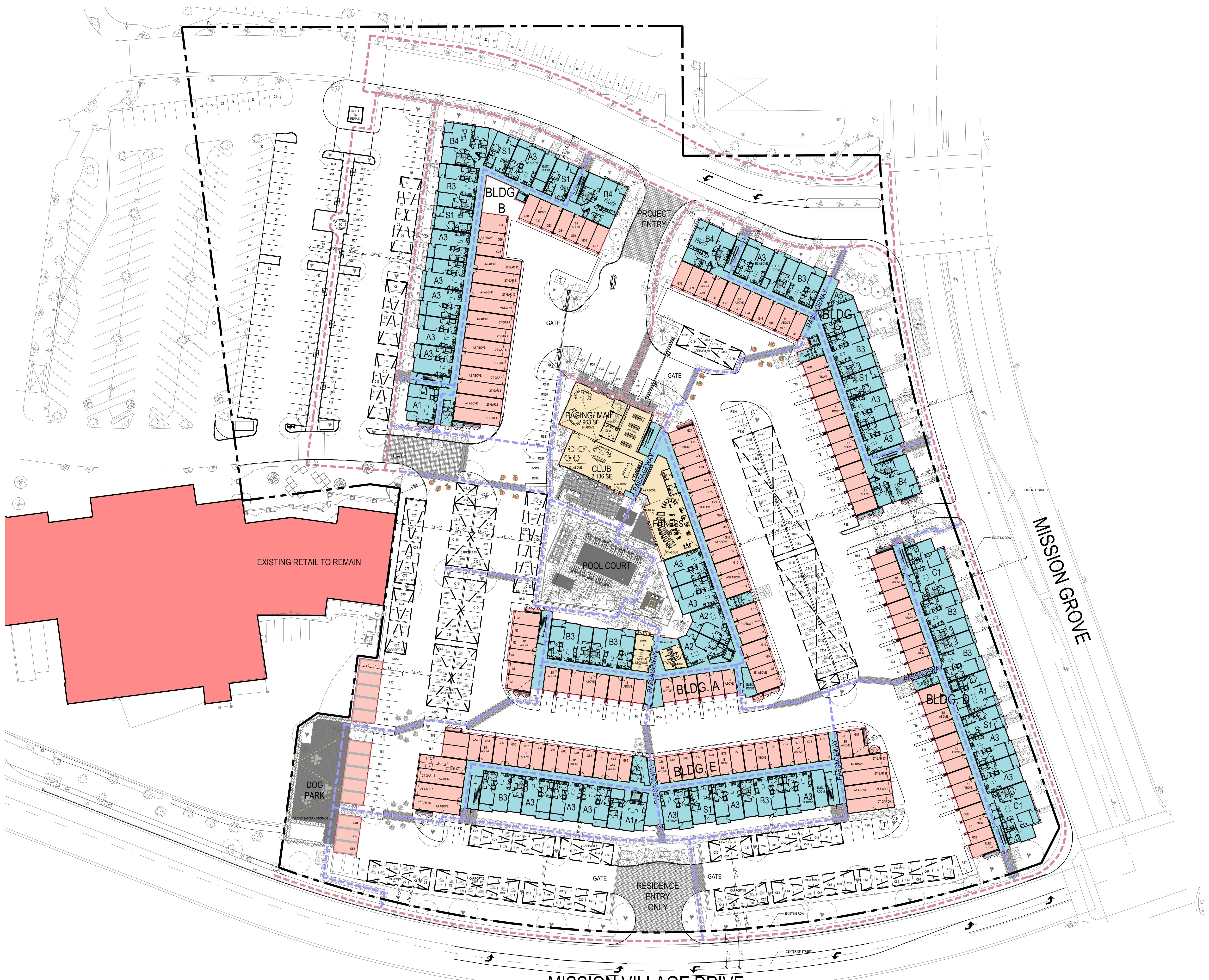
Riverside, CA
Anton Mission Grove, LLC

Building Perspectives

AQ Architecture.
Design.
Relationships.

A1.0

Scale
Job No.
Date
2021-505
8-8-2022



LEGEND

RESIDENTIAL PARKING GARAGE
RESIDENTIAL APARTMENTS
RESIDENTIAL AMENITY SPACE
EXISTING RETAIL
RESIDENTIAL PEDESTRIAN PATH OF TRAVEL
PUBLIC PEDESTRIAN PATH OF TRAVEL

SITE PLAN DATA:

SITE AREA: 9.92 AC
UNITS: 347 DU
DENSITY: 35 DU/AC

NOTES:

- Standard stalls are 9'x18'
1 car garage size is 10'x20'
Tandem stalls are 9'x18'
2 car tandem garage is 10'x40'
Compact stalls are 8'x16'
- EV parking stalls to be studied for location and minimum size.
- The existing water easement to be relocated off site.
- The existing B of A and watermill kiosks to remain in place.

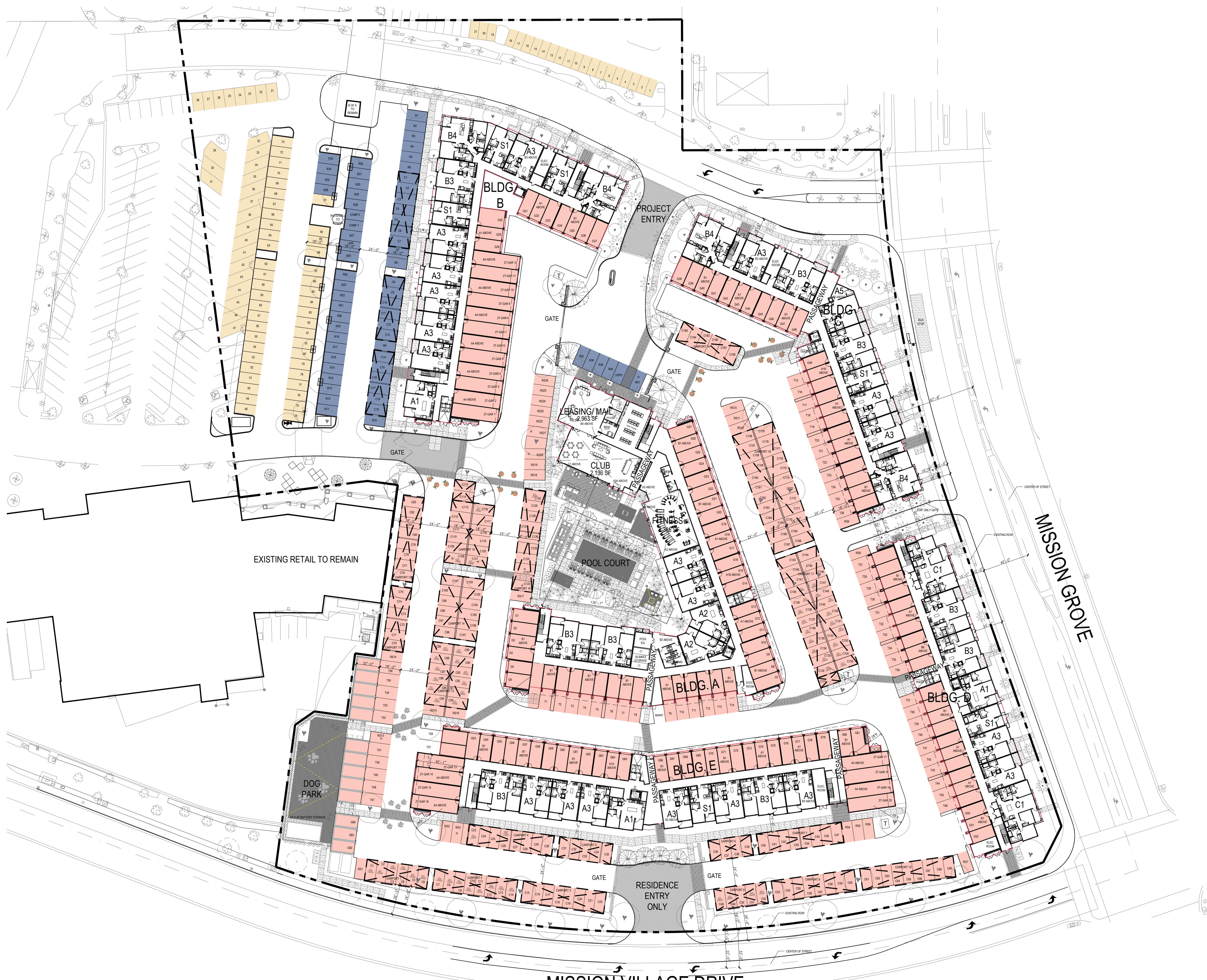


1"=40'-0" 0 20' 40' 80' 120'

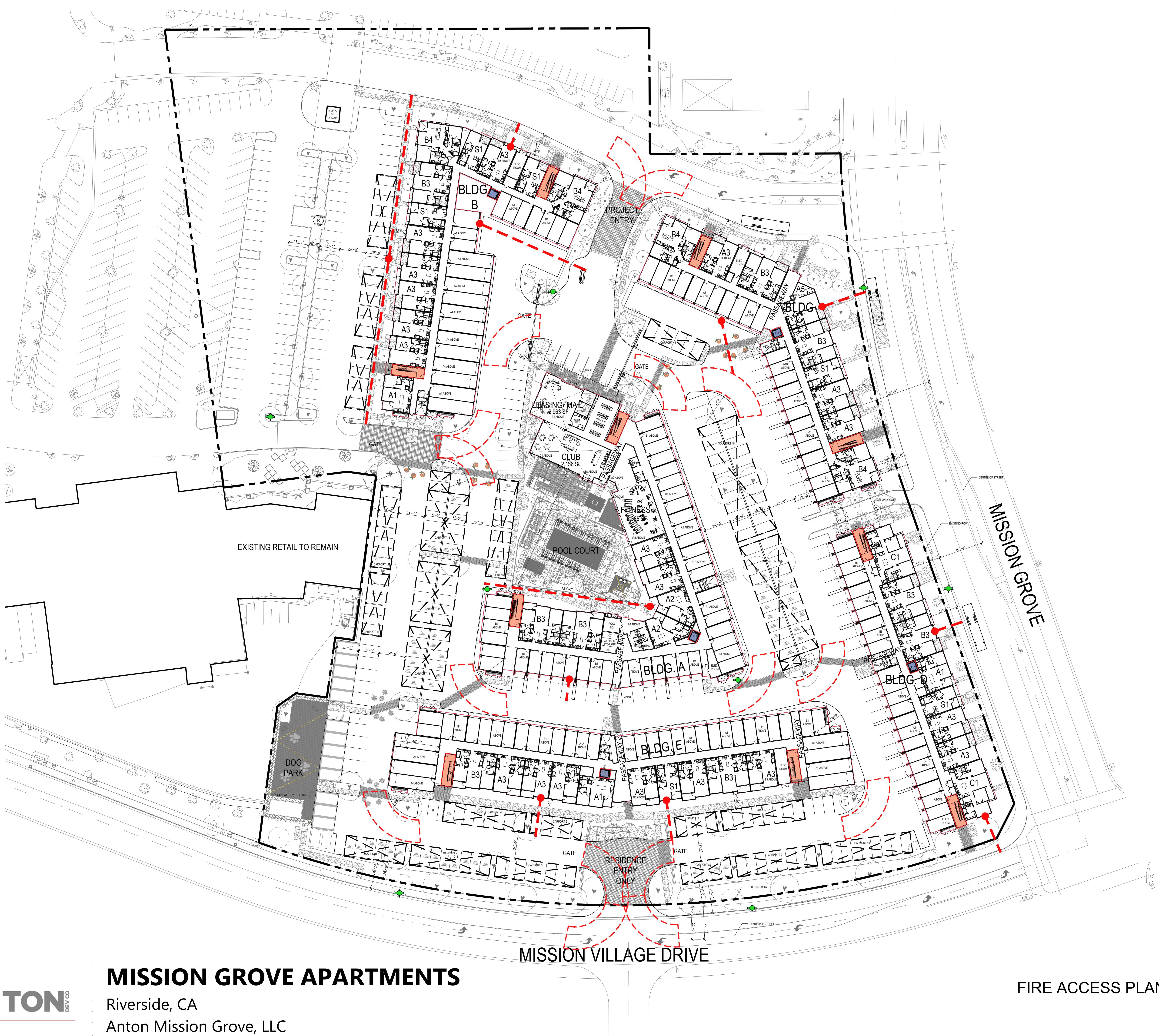
LEGEND

	1-91	SHARED PARKING
	C1-19	DEDICATED UNSECURED CARPORTS
	R1-38	DEDICATED UNSECURED STANDARD STALLS
	COMPACT 1-2	DEDICATED UNSECURED COMPACT STALLS
	G1-84	DEDICATED SECURED 1 CAR GARAGE
	2T-GAR1-20	DEDICATED SECURED 2 CAR TANDEM GARAGE
	T1-58	DEDICATED 1 CAR GARAGE + TANDEM STALL
	C1-185	DEDICATED SECURED CARPORTS
	RS1-26	DEDICATED SECURED STANDARD STALL

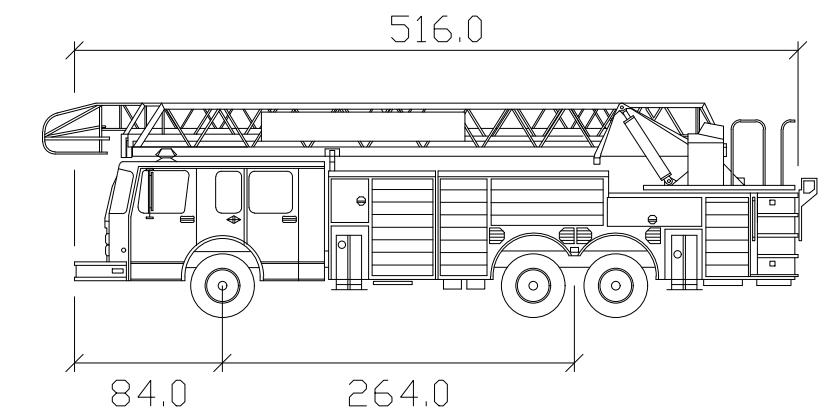
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Parking Type	Total Provided	Total	Total
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Dedicated Unsecured - Standard Stalls	41		
Dedicated Unsecured - Compact Stalls	2		
Dedicated Unsecured - Carports	19		
Shared Parking	91		
Total Provided	604	513	604



1"=40'-0" 0 20' 40' 80' 120'



FIRE ACCESS LEGEND



FIRE TRUCK

Aerial Fire Truck

Width : 102.0
Track : 102.0
Lock to Lock Time : 6.0
Steering Angle : 33.3

EXISTING/ PROPOSED HYDRANT

FIRE TRUCK

TYPICAL TURNING RADIUS

150' FIRE HOSE LENGTH

CLEAR FIRE LANE/ FIRE ACCESS

EXIT STAIR ACCESS

GURNEY SIZE ELEVATOR ACCESS

FIRE ACCESS PLAN

A1.3

ANTON
DEV CO

AO Architecture.
Design.
Relationships.

Scale
Job No.
Date
1" = 40'
2021-505
8-8-2022

LEGEND

	COMMON OPEN SPACE
	PRIVATE OPEN SPACE

OPEN SPACE REQUIRED			
TYPE	SF	QTY	TOTAL
Private	50	347	17,350
Common	75	347	26,025
TOTAL	125	347	43,375

OPEN SPACE PROVIDED	
TYPE	TOTAL
Private	21,523
Common	28,611
TOTAL	50,134
RATIO (SF/DU)	144

COMMON OPEN SPACE PROVIDED	
OPEN AREA SECTION	
Pool Court	13,930
Dog Park	7,196
Leasing/Mail	2,963
Club	2,136
Fitness	2,386
TOTAL	28,611
ADDITIONAL LANDSCAPED AREA	
Mission Grove Frontage	10,158
Mission Village Dr. Frontage	9,625
Bldg B & C Street Frontage	8,375
Interior Bldg E Frontage	6,096
TOTAL	34,254
GRAND TOTAL	62,865

PRIVATE OPEN SPACE PROVIDED			
Unit	Deck SF	Qty.	SF TOT.*
S1	50	24	1,200
A1	64	51	3,264
A2	54	11	594
A3	64	68	4,352
A3A	50	2	100
A5	64	1	64
A1A	56	3	168
A1B	52	6	312
A4	66	30	1,980
B1	64	63	4,032
B2	64	3	192
B3	64	51	3,264
B4	56	18	1,008
B5	64	3	192
B6	67	3	201
C1	60	10	600
Avg.	62	347	21,523

* RESIDENTIAL BALCONY AREA



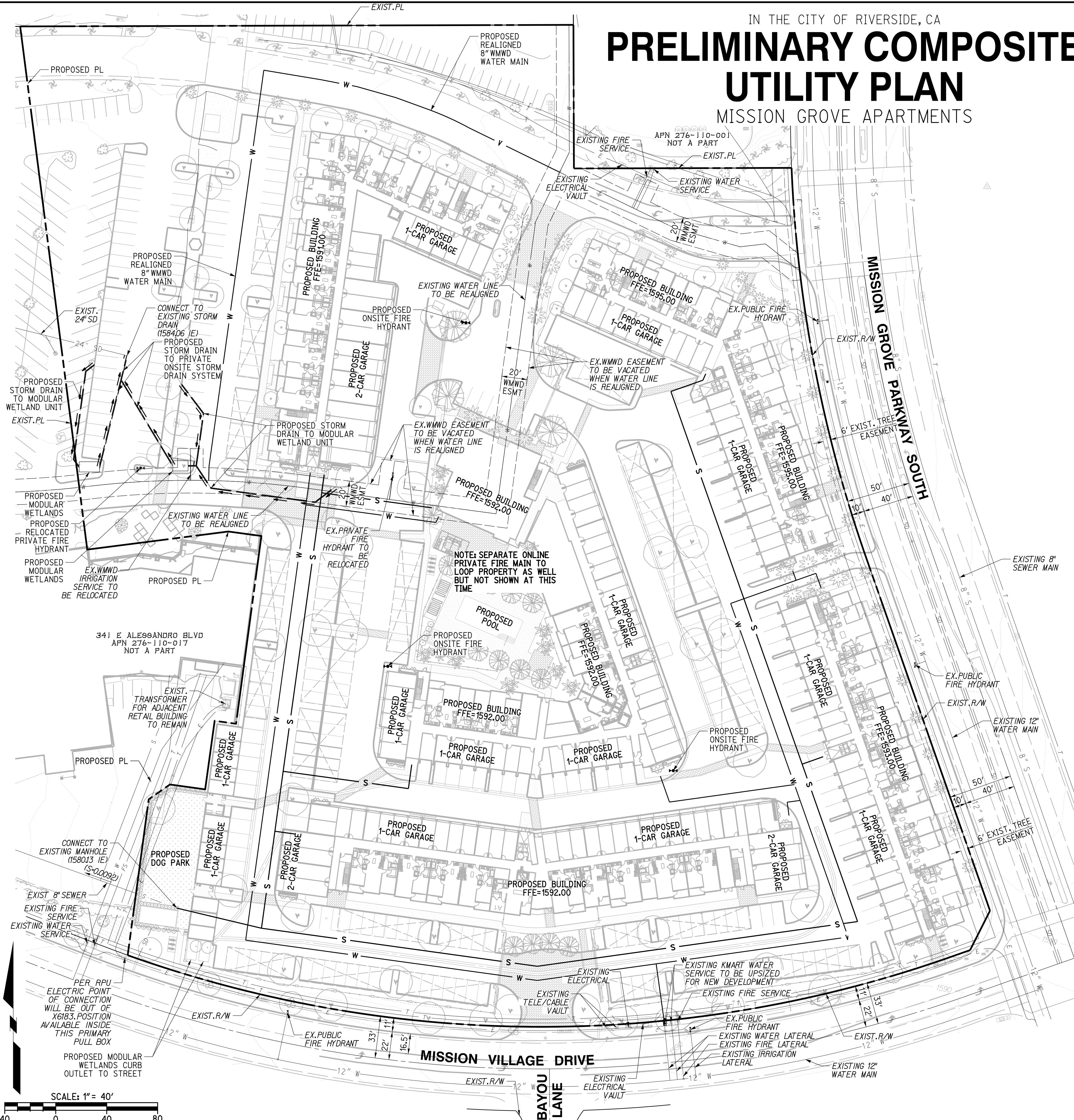
1"=40'-0" 0' 20' 40' 80' 120'

IN THE CITY OF RIVERSIDE, CA

PRELIMINARY COMPOSITE UTILITY PLAN

MISSION GROVE APARTMENTS

MISSION GROVE APARTMENTS



PROPOSED LEGEND

TOPOGRAPHY LEGEND

EXISTING BOLLARD	
EXISTING CATCH BASIN	
EXISTING ELECTRICAL MANHOLE	
EXISTING FIRE HYDRANT	
EXISTING LIGHT	
EXISTING PALM TREE	
EXISTING SEWER MANHOLE	
EXISTING STORM DRAIN MANHOLE	
EXISTING SIGN	
EXISTING WATER METER	
EXISTING WALL	
EXISTING TREE	
EXISTING WATER	— W —
EXISTING SEWER	— S —
EXISTING STORM DRAIN	— SD —
EXISTING OVERHEAD POWER	— OHE —

CIVIL ENGINEER

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

DEVELOPER

ANTON MISSION GROVE, LLC
1676 N CALIFORNIA BLVD, SUITE 250
WALNUT CREEK, CA 94596
PHONE: (650) 549-1613

PROJECT ACREAGE

9.97 AC - 434,223 SF

ASSESSOR/S NAME

ASSESSOR'S T A I
276-110-018
SITE ADDRESS
775 E. ALESSANDRO BLVD.

PRELIMINARY COMPOSITE UTILITY PLAN MISSION GROVE APARTMENTS

CITY OF RIVERSIDE

E COUNTY OF RIVERSIDE, CALIFORNIA

DATE PREPARED: JUNE 7, 2022
DATE REVISED: AUGUST 5, 2022

REVISED: AUGUST 5, 2018
SHEET 5 OF 5

RICK™ 1770 IOWA AVENUE - SUITE 100
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