Vista Creek Multi Family

UTILITY CONFORMANCE LETTER

Project:
Vista Creek Multi-Family
Aurora, Colorado

Client:
Forum Real Estate Group, LLC
4500 Cherry Creek Drive South, Suite 550
Glendale, CO 80246
Mr. Rich Wilson
Managing Director – Development

Prepared By:
Kimley-Horn and Associates, Inc.
4582 South Ulster Street, Suite 1500
Denver, CO 80237

Prepared: **September 2, 2021**
Revised: **April 8, 2022**

APPROVED FOR ONE YEAR FROM THIS DATE _____
City Engineer Date
Water Department Date
Fire Department Date

Kimley»Horn

ENGINEER'S CERTIFICATION

This report and plan for the utility design of the Vista Creek Multi-Family Development was prepared by me (or under my direct supervision) in accordance with the provisions of City of Aurora Standards and Specifications for Water, Sanitary Sewer and Storm Drainage Criteria and was designed to comply with the provisions thereof.

Adam Harrison, PE
Registered Professional Engineer
State of Colorado No. 51758

TABLE OF CONTENTS

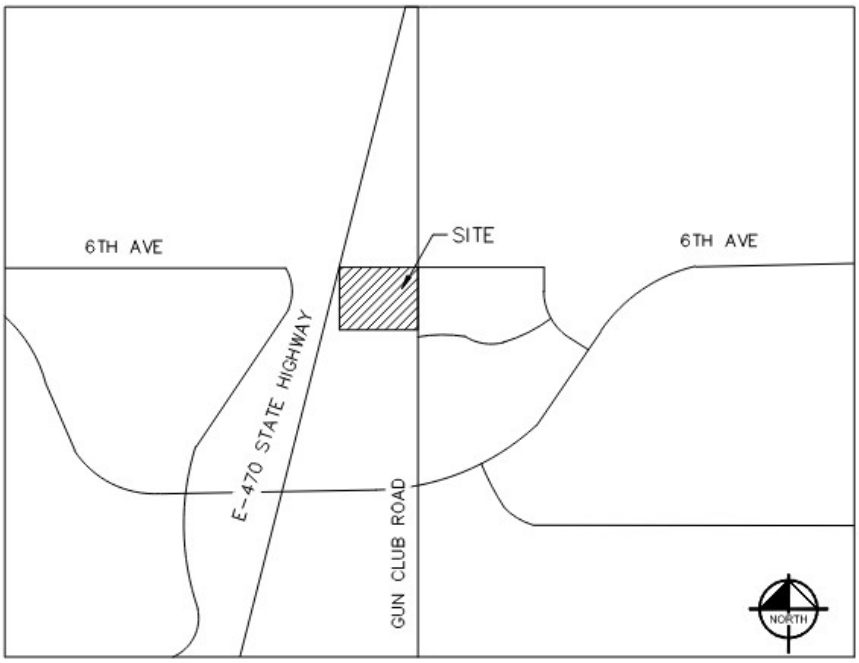
INTRODUCTION

Location

The Site is located to the south of East 6th Avenue and West of Gun Club Road, situated in the Northeast 1/4 of the Northeast 1/4 of the Northeast 1/4 of Section 12, Township 4 South, Range 66 West of the 6th Principal Meridian, County of Arapahoe, State of Colorado. The proposed Project is located bounded by vacant land to the south, East 6th Avenue ROW to the north, E-470 to the west and Gun Club Road to the East. The 9.13 +/- acre project site is currently undeveloped and consists of primarily sparse native grass, weeds, and brush cover.

Vicinity Map

A vicinity map is provided below for reference:



Proposed Land Use

The Site is currently undeveloped land and is zoned Mixed Use Regional district (MU-R). The proposed ±9.13-acre development is anticipated to consist of a multi-family development.

Development of the property will include public road and sidewalk improvements along both Gun Club Road and East 6th Avenue. The Project will also include extensions of the sanitary sewer and water distribution systems developed by properties to the south within the Lamar Landing Subdivision. The proposed development of this property is consistent with the current zoning within the E470 Corridor and is in conformance with the City of Aurora Criteria.

SANITARY SEWER SYSTEM

The proposed Project Site is served by the First Creek Transfer line and is located within Sanitary Sewer Basin SS0S3 per the *First Creek Transfer Sanitary Sewer Service Boundary Map* in Appendix C.

The sanitary sewer design outlined herein is consistent with the City of Aurora Standards and Specifications for Water, Sanitary Sewer and Storm Drainage Criteria (the "Criteria").

Sanitary Sewer Loading

The sanitary sewer loading used for the design of the main is based on the tables provided in Section 5.03.9 of the Criteria as outlined below for each of the anticipated uses on site:

Table 1: Sanitary Sewer Loads	
Use	*Average Day Flow*
Multi-Family	68 gpd/capita

The proposed sanitary sewer main shall be sized for the *Peak Hourly Flow*, which is equal to the Average Day Flow multiplied by the *Peaking Factor*. The peaking factor from the *First Creek Transfer Sanitary Sewer Service Boundary Map* of 2.38 was used for the calculation of the loading. The total Peak Hourly and Average Daily flows anticipated to be added to the existing transfer sewer main are summarized in Table 2 below. A detailed analysis of each Sanitary Sewer Basin and pipe size has been included in Appendix A.

Table 2: Sanitary Sewer Loading Analysis				
Area/Land Use	*Area (ac)*	*Average Daily Flow (gpd)*	*Total Avg Daily Flow (gpm)*	*Peak Hour Flow (gpm)*
PA-7 - Detention	1.14	-	-	-
PA-4 - Retail	3.53	5,295.00	4.04	9.12
PA-8 - Open Space	1.55	-	-	-
PA-6 - Retail	2.61	3,915.00	2.99	6.74
PA-3 - Retail	1.92	2,880.00	2.20	4.96
PA-2 - Multi Family	1.77	7,722.76	5.90	13.30
PA-5 - Open Space	1.03	-	-	-
PA-10 - Multi Family	10.32	44,829.68	34.24	77.21
Vista Creek MF	**9.13**	**59,898.48**	**45.76**	**103.16**
PA-11 - Open Space	1.13	-	-	-
Total to Ex Sanitary Sewer Main				**214.49**

The proposed sanitary sewer main shall be sized for the *Peak Hourly Flow*, which is equal to the Average Day Flow multiplied by the *Peaking Factor* as found in the equation below with a maximum result of 4 and a minimum of 1.7

$$\text{Peaking Factor} = 5 \div p^{0.167}, \text{ where '}p\text{' is population in thousands}$$

When applied to each of the proposed uses, the peaking factor was greater than 4.0, thus 4.0 has been utilized as the peaking factor for the entire site. See the sanitary loading used to size the proposed main extension to the Vista Creek development below in Table 3.

Table 3: Sanitary Sewer Loading Analysis for Main Sizing

Area/Land Use	*Area (ac)*	*Average Daily Flow (gpd)*	*Total Avg Daily Flow (gpm)*	*Peak Hour Flow (gpm)*
Vista Creek MF	9.13	59,898.48	45.76	170.54

Sanitary Sewer Connectivity

The proposed sanitary sewer main extension will be approximately 600 lineal feet and will serve the Vista Creek MF Development. The main will extend the 1,110 lineal foot main extension installed by the Lamar Landing development for a total contributing area of ±34.1-acres. A new 8-inch PVC sanitary sewer main line extension will extend north from the stub installed by the development to the south. A peaking factor of 4.0 will be used to design the main extension to the Vista Creek development, see the calculations in Appendix A.

Sanitary Sewer Demand Summary

The First Creek Transfer Sanitary Sewer Service Boundary Map outlines Sanitary Sewer Basin SS0S3 consisting of 62-acres and with an overall anticipated peak hour demand of 244.0 gpm, however it is critical to note that the basin peak flows were determined using a peaking factor of 2.38. Summing the flows from the Lamar Landing Master Utility Report and the Vista Creek Multi Family development yields a peak flow of 214.49 gpm, which is less than the 244.0 gpm from the First Creek Transfer station study.

WATER SYSTEM

The water demand rates and distributions system design are based on the City of Aurora Standards and Specifications for Water.

Water Distribution Loading

The domestic water and fire flow design has been based on the following typical demand rates, consistent with the City Criteria as outlined below in Tables 4 and 5.

Table 4: Domestic Water Demands

Use	*Average Day*	*Max Day*	*Max Hour*
Multifamily	101 gpd/capita1	Average Day x2.8	Average Day x4.5

[1] MF zoning assumes 2.77 people per unit

The fire flows have been calculated based on the City of Aurora adopted fire code IFC 2015. Based on the typical demand rates as summarized in Table 3 and the IFC, the resulting water demands for the Lamar Landing Subdivisions are as follows:

Table 5: Water Demand Analysis Summary

Area/Land Use	Demand (gpm)		
	Average Day	Max Day	Peak Hour
PA-7 - Detention	-	-	-
PA-4 - Retail	3.68	10.30	16.55
PA-8 - Open Space	-	-	-
PA-6 - Retail	2.72	7.61	12.23
PA-3 - Retail	2.00	5.60	9.00
PA-2 - Multi Family	7.97	22.30	35.85
PA-5 - Open Space	-	-	-
Vista Creek MF	61.78	172.99	278.02
PA-10 - Multi Family	46.24	129.47	208.08

Water Distribution Modeling

The Project is in Aurora pressure zone 3 with and has an HGL of 5,720. The maximum pressure is assumed to be 72 psi and the min pressure assumed to be 68 psi. Consistent with the City Criteria and ISO Criteria, the system will be analyzed based on the maximum day plus fire flow demand with a minimum residual pressure of 20 psi. The system will also meet the maximum allowable velocity of 3.0 fps for 8-inch domestic lines during both the average day and peak hour scenarios and maximum velocity of 10.0 fps for 8-inch domestic lines and up to 15.0 fps for the hydrant lines during the fire flow scenario. The fire flow component of the water distribution system was evaluated to display 1,500 gpm of flow is available at each hydrant and throughout the system while maintaining allowable pressures, per the 2009 IFC.

Water Connectivity

The Vista Creek water line will connect to the existing 8-inch water main loop constructed by the proposed Lamar Landing Subdivision to the south, and loop to an existing water line constructed in the 6th Avenue ROW. The new 8-inch main will connect to the existing main in 6th Avenue at two locations, near the mid-point of the northwestern Site frontage and at the northeast Site frontage of 6th Avenue. The 8-inch water main will be located within a utility easement along the private access drives around the site. Additional 8-inch water stubs will be installed to serve each of the future developments within the subdivision.

CONCLUSIONS

This utility conformance letter was prepared in compliance with the City of Aurora Standards and Specifications for Wastewater and Water Distribution Systems. The proposed sanitary sewer and domestic water systems will provide adequate capacity to serve the Vista Creek Multi Family Development.

REFERENCES

Water, Sanitary Sewer & Storm Drainage Infrastructure Standards and Specifications, City of Aurora; September 2019.

Cross Creek Master Utility Report, High Country Engineering, October 2002.

Lamar Landing Master Utility Report, Kimley-Horn, March 2021

Appendix A
Sanitary Sewer Demands

Sanitary Sewer Loading Analysis for Interceptor										
Area/Land Use	*Area (ac)*	*Dwelling Units (DU)* [2]	*Equivalent Population* [1]	*Loading Rate (gpd/capita)*	*Average Daily Flow (gpd)*	*Average Daily Flow (gpm)*	*Infiltration @10% (gpm)*	*Total Avg Daily Flow (gpm)*	*Peaking Factor* [3]	*Peak Hour Flow (gpm)*
PA-7 - Detention	1.14	-	-	-	-	-	-	-	-	-
PA-4 - Retail	3.53	-	77.66	1,500	5,295	3.68	0.37	4.04	2.38	9.12
PA-8 - Open Space	1.55	-	-	-	-	-	-	-	-	-
PA-6 - Retail	2.61	-	57.42	1,500	3,915	2.72	0.27	2.99	2.38	6.74
PA-3 - Retail	1.92	-	42.24	1,500	2,880	2.00	0.20	2.20	2.38	4.96
PA-2 - Multi Family	1.77	41	113.57	68	7,723	5.36	0.54	5.90	2.38	13.30
PA-5 - Open Space	1.03	-	-	-	-	-	-	-	-	-
PA-10 - Multi Family	10.32	238	659.26	68	44,830	31.13	3.11	34.24	2.38	77.21
Vista Creek MF	**9.13**	**318**	**880.86**	**68**	**59,898**	**41.60**	**4.16**	**45.76**	**2.38**	**103.16**
PA-11 - Open Space	1.13	-	-	-	-	-	-	-	-	-
									Total to Ex Sanitary Sewer Main	**214.49**
									Cross Creek Regional Utility Peak Hour Flow from Basin SSOS3	**244.00**

[1] Multi-family at 2.77 persons per DU, Equivalent population for retail/commercial is 22/acre

[2] Assumes 23/units per Acre

[3] Peaking factor from Cross Creek Regional Utility

Sanitary Sewer Loading for Proposed 8" Main										
Area/Land Use	*Area (ac)*	*Dwelling Units (DU)* [2]	*Equivalent Population* [1]	*Loading Rate (gpd/capita)*	*Average Daily Flow (gpd)*	*Average Daily Flow (gpm)*	*Infiltration @10% (gpm)*	*Total Avg Daily Flow (gpm)*	*Peaking Factor* [4]	*Peak Hour Flow (gpm)*
Vista Creek MF	9.13	318	880.86	68	59,898	41.60	4.16	45.76	4.00	170.54

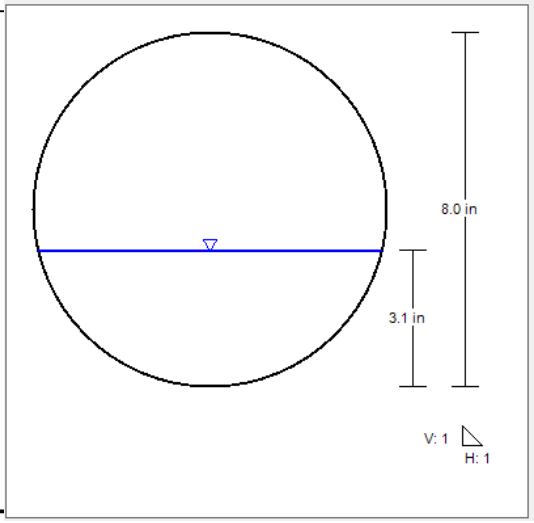
[4] Peaking Factor = $5 \div p^{0.167}$, where 'p' is population in thousands

Vista Creek MF Proposed Sanitary Main

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Roughness Coefficient	0.010
Channel Slope	0.600 %
Diameter	8.0 in
Discharge	170.54 gal/min

Results	
Normal Depth	3.1 in
Flow Area	0.1 ft²
Wetted Perimeter	0.9 ft
Hydraulic Radius	1.7 in
Top Width	0.65 ft
Critical Depth	3.4 in
Percent Full	38.4 %
Critical Slope	0.395 %
Velocity	3.08 ft/s
Velocity Head	0.15 ft
Specific Energy	0.40 ft
Froude Number	1.247
Maximum Discharge	587.47 gal/min
Discharge Full	546.13 gal/min
Slope Full	0.059 %
Flow Type	Supercritical



GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	38.4 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	3.1 in
Critical Depth	3.4 in
Channel Slope	0.600 %
Critical Slope	0.395 %

Appendix B
Water Demands

Water Demand Analysis									
Area/Land Use	*Area (ac)*	*Dwelling Units (DU)* [1]	*Equivalent Population*	*Average Day Per Capita Flow (gpd)*	*Average Daily Flow (gpm)*	*Max Hour: Average Day Factor*	*Max Hour (gpm)*	*Max Day: Average Day Factor*	*Max Day (gpm)*
Vista Creek MF	**9.13**	**318**	**880.86**	**101**	**61.78**	**4.50**	**278.02**	**2.80**	**172.99**
Lamar Landing Totals					62.60		281.71		175.28
Totals					**124.38**		**559.73**		**348.27**

[1] Multi-family at 2.77 persons per DU, Equivalent population for retail/commercial is 22/acre

Water Demand Analysis Summary - From Lamar Landing Master Utility Report

Area/Land Use	Demand (gpm)		
	Average Day	**Max Day**	**Peak Hour**
PA-7 - Detention	-	-	-
PA-4 - Retail	3.68	10.30	16.55
PA-8 - Open Space	-	-	-
PA-6 - Retail	2.72	7.61	12.23
PA-3 - Retail	2.00	5.60	9.00
PA-2 - Multi Family	7.97	22.30	35.85
PA-5 - Open Space	-	-	-
Vista Creek MF	**61.78**	**172.99**	**278.02**
PA-10 - Multi Family	46.24	129.47	208.08
Total	**124.38**	**348.27**	**559.73**

*The water main for Lamar Landing is proposed to be extended north to the Vista Creek MF development

9/3/2021
Calculated By: ERS
Checked By: AJH

Kimley»Horn

Required Fire Flow Calculations
Vista Creek MF
Aurora, Colorado

Project Description: Multi-Family Residential
Construction Type: V-A
Total Building Area (sf) 368,002
Sprinklered?: Sprinklered per NFPA 13

Determine construction types, area of each construction type, % of each construction type vs. total, and total square footage.

	Construction Type	SF of Construction Type	% of Total Building	Required Fire Flow (gpm)	Reduced Fire Flow for Sprinkers (gpm)*
NE Bldg	V-A	113,824	30.9%	6,000	1500
NW Bldg	V-A	65,834	17.9%	4,500	1500
SE Bldg	V-A	113,824	30.9%	6,000	1500
SW Bldg	V-A	73,825	20.1%	5,000	1500
Pool	V-A	695	0.2%	1,500	1500
Sum	V-A	368,002	100%	--	--

*A reduction in required fire-flow of up to 75 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system installed in accordance with Section 903.3.1.2. The resulting fire-flow shall not be less than 1,500 gallons per minute (5678 L/min) for the prescribed duration as specified in Table B105.1.

Apply Fire Flow to Hydrant Table (Table C105.1)

1 Hydrants Required**

**A. If hydrant can meet 1,500 gpm @ 20 psi minimum. Based on flow test, the existing hydrant has a flow of 6,048 gpm; therefore no additional hydrant is required to meet the required fire flow of 1,500 gpm minimum.

Average Spacing Required? (Table C105.1) 500 ft***

***f. A 50-percent spacing increase shall be permitted where the building is equipped throughtout with an approved automatic sprinkler system in accordance with Section 903.3.1.1

Current Fire Hydrants 6
Current Average Spacing 250 ft

We have spaced these hydrants to provide access to all sides of the buildings

Appendix C
Reference Utility Maps

202189 2/3

12" SANITARY EXTENSION
STUB WATER FOR FUTURE CONNECTION
30" WATER EXTENSION
CONNECT TO EXISTING 30" WATERLINE
FUTURE EXTENSION OF 30" FIRST CREEK TRANSFER SEWER MAIN
E. 6th PARKWAY
FUTURE SANITARY OUTFALL BY OTHERS
PROPOSED CROSS CREEK DEVELOPMENT
project location
AURORA SCHOOLS
30" SANITARY
36" WATER EXTENSION
SECTION 12 T4S, R66W
E. 6th PARKWAY
CONNECTION TO EXISTING COAL CREEK MAIN
PROPOSED FIRST CREEK 36" TRANSFER MAINLINE
36" SANITARY
SECTION 7 T4S, R65W
Thunderbird Estates
SECTION 8 T4S, R65W
SECTION 9, T4S, R65W
FIRST CREEK TRANSFER SERVICE BOUNDARY
ALAMEDA AVE.
MISSISSIPPI AVE.
SECTION 17, T4S, R65W
SECTION 16, T4S, R65W
GUN CLUB RD.
HARVEST RD.
POWHATON RD.
MONAGHAN RD.
Gravel Pits
Mobile Home Park
Aurora Airpark
PIPELINE
Coal Creek
Murphy Creek
First Creek
E-470
AURORA BOUNDARY
CORPORATE

SSOS2 109
SSOS3 62
SSOS4 61
SSOS1 4485
CC-1 215

LEGEND

- SSOS2 / 109 — BASIN DESIGNATION / AREA (ACRES)
- 6 — DESIGN POINT
- BASIN BOUNDARY
- SS — SEWER TRUNK LINE
- W — WATERLINE

GRAPHIC SCALE
0 500 1000 2000
(IN FEET)
Horiz. 1 inch = 1000 ft.

REGIONAL DESIGN PRESENTED FOR INFORMATION ONLY

DESIGN FLOW SUMMARY CHART

DP	BASIN	BASIN PEAK HOUR	TOTAL PEAK HOUR
1	SSOS1	10,839.0	---
2	SSOS2	429.1	429.1
3	SSOS1	10,839.0	---
	CC-1	770.9	11,609.9
3	SSOS2	429.1	---
	SSOS3	244.0	673.1
4	CC-1	770.9	---
	SSOS1	10,839.0	---
	SSOS2	429.1	---
	SSOS3	244.0	---
	SSOS4	239.8	11,700.9*

* TOTAL BASIN PEAK FLOW IS BASED ON A UNIFORM PEAK FACTOR OF 2.38

NOTE: PEAK HOUR FLOWS MAY NOT BE DIRECTLY ADDITIVE DUE TO VARYING PEAK FACTORS FOR POPULATION DISTRIBUTION.

FIGURE 2
FIRST CREEK TRANSFER SANITARY SEWER SERVICE BOUNDARY MAP

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 OR 534-6700 (UNITED) CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

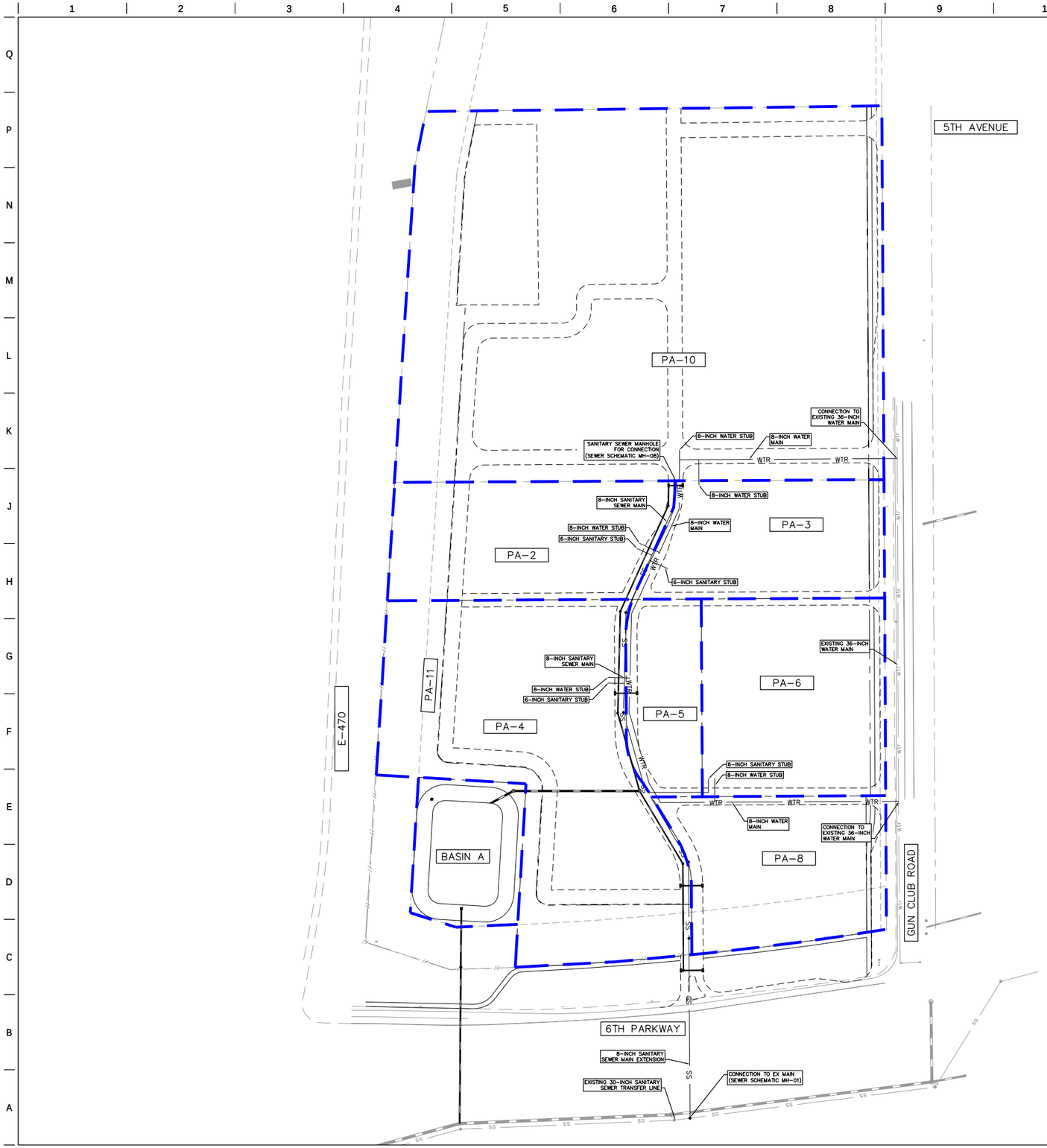
DES.
DR.
CK.
DATE
FILE: SAN-REG-EXHB

HIGH COUNTRY ENGINEERING, INC.
14 INVERNESS DRIVE EAST, SUITE D-186
ENGLEWOOD, COLORADO 80112
PH:(303) 925-0544 FX:(303) 925-0547

US HOME
AURORA, COLORADO
CROSS CREEK
REGIONAL UTILITY EXHIBIT

PROJECT NO.
2022004.55

202189 2/3



Water Demand Analysis Summary

Area/Land Use	Demand (gpm)		
	Average Day	Max Day	Peak Hour
PA-7 - Detention	-	-	-
PA-4 - Retail	3.68	10.30	16.55
PA-8 - Open Space	-	-	-
PA-6 - Retail	2.72	7.61	12.23
PA-3 - Retail	2.00	5.60	9.00
PA-2 - Multi Family	7.97	22.30	35.85
PA-5 - Open Space	-	-	-
PA-10 - Multi Family	46.24	129.47	208.08
Total	**62.60**	**175.28**	**281.71**

Sanitary Sewer Loading Analysis

Area/Land Use	Area (ac)	Average Daily Flow (gpd)	Total Avg Daily Flow (gpm)	Peak Hour Flow (gpm)
PA-7 - Detention	1.14	-	-	-
PA-4 - Retail	3.53	5,295.00	4.04	15.08
PA-8 - Open Space	1.55	-	-	-
PA-6 - Retail	2.61	3,915.00	2.99	11.15
PA-3 - Retail	1.92	2,880.00	2.20	8.20
PA-2 - Multi Family	1.77	7,722.76	5.90	21.99
PA-5 - Open Space	1.03	-	-	-
PA-10 - Multi Family	10.32	44,829.68	34.24	127.64
PA-11 - Open Space	1.13	-	-	-
Total to Ex Sanitary Sewer Main				**184.05**

LEGEND

WATER/SANITARY BASIN BOUNDARY

NOTE
UTILITY ALIGNMENTS AND STUB LOCATIONS SHOWN ARE SCHEMATIC FOR ILLUSTRATIVE PURPOSES AND ARE SUBJECT TO CHANGE WITH THE SITE SPECIFIC PLANNING AND CONSTRUCTIONS DOCUMENTS.

NORTH

GRAPHIC SCALE IN FEET
0 50 100 200

PROJECT NO.: 096888000

Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
4582 South Ulster Street, Suite 1500
Denver, Colorado 80237 (303) 228-2300

QuikTrip No. 4209

NWC E. 6TH AVE & GUN CLUB RD.
AURORA, CO

PROTOTYPE: P-99 (08/01/19)
DIVISION:
VERSION: 001
DESIGNED BY:
DRAWN BY:
REVIEWED BY:

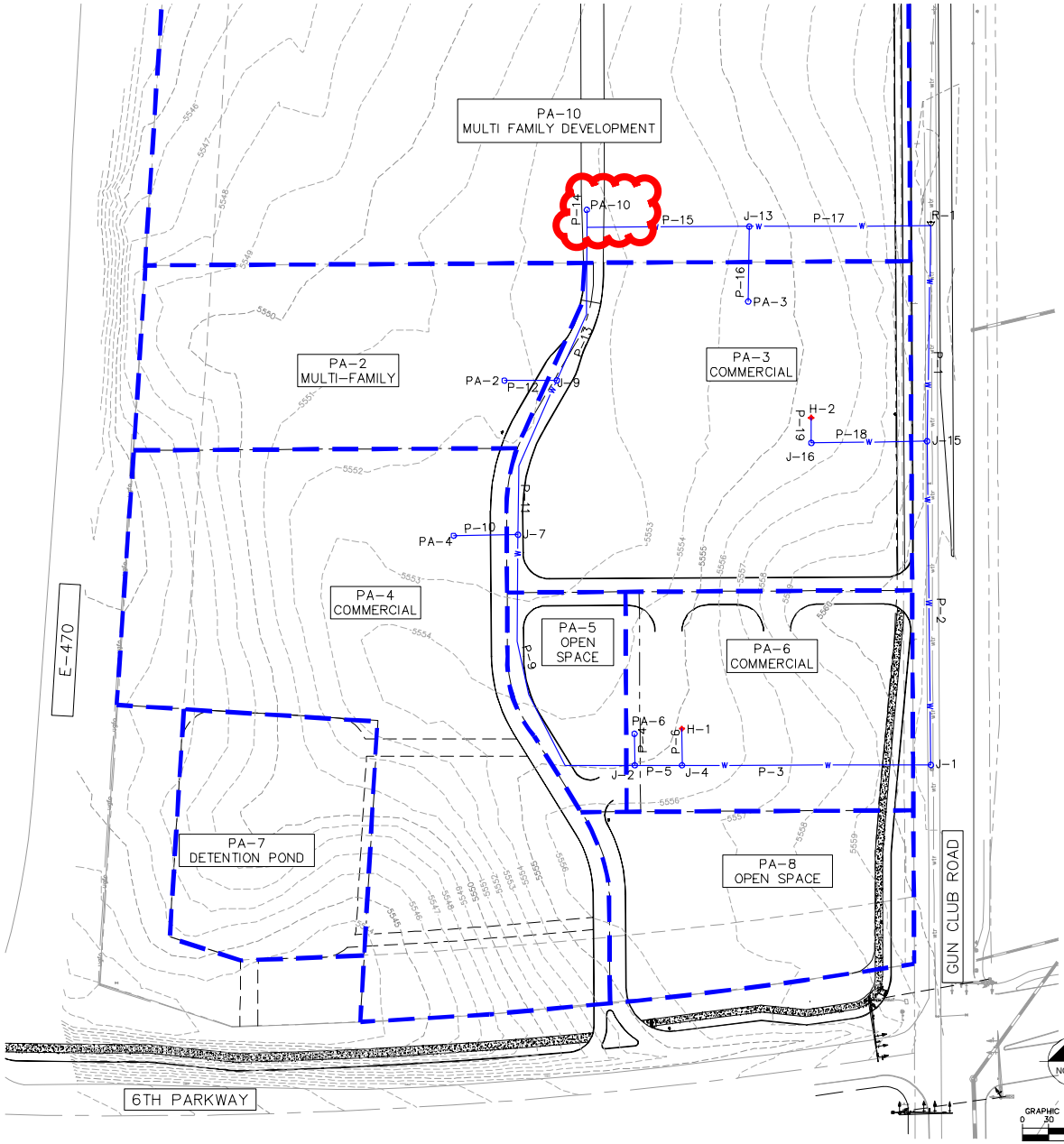
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE:

SHEET TITLE:
MASTER UTILITY MAP

SHEET NUMBER:
UT-01

MASTER WATERCAD EXHIBIT



Water Demand Analysis Summary			
Area/Land Use	*Demand (gpm)*		
	Average Day	*Max Day*	Peak Hour
PA-7 - Detention	-	-	-
PA-4 - Retail	3.82	10.70	17.20
PA-8 - Open Space	-	-	-
PA-6 - Retail	1.57	4.40	7.08
PA-3 - Retail	3.08	8.63	13.88
PA-2 - Multi Family	8.55	23.94	38.47
PA-5 - Open Space	-	-	-
PA-10 - Multi Family	42.55	119.14	191.47
Total	59.58	166.81	268.09

APPROVED ON THIS DATE

_____

CITY ENGINEER DATE

WATER DEPARTMENT DATE

FIRE DEPARTMENT DATE

LAMAR LANDING

AURORA, COLORADO
March 7, 2022

Kimley»Horn
4582 SOUTH ULSTER STREET
SUITE 1500
DENVER, COLORADO, 80237
303.228.2300

NOTE: THIS PLAN IS CONCEPTUAL IN NATURE

Lamar Landing Subdivision
Water Demand Analysis
Active Scenario: Max Daily + Fire
Fire Flow Node FlexTable: Fire Flow Report

Label	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (Zone)	Velocity of Maximum Pipe (ft/s)
H-1	True	2,500.00	2,501.00	56	J-4	28.38
H-2	True	2,500.00	2,501.00	61	J-16	28.38
J-1	True	2,500.00	2,501.00	68	J-15	0.83
J-2	True	2,500.00	2,501.00	65	H-1	10.39
J-5	True	2,500.00	2,501.00	64	PA-5	9.47
J-7	True	2,500.00	2,501.00	65	PA-5	8.72
J-11	True	2,500.00	2,501.00	66	PA-10	10.50
PA-10	True	2,500.00	2,501.00	64	J-11	16.79
J-9	True	2,500.00	2,501.00	65	PA-2	9.39
PA-2	True	2,500.00	2,501.00	62	J-9	16.11
PA-5	True	2,500.00	2,501.00	59	J-5	15.96
PA-4	True	2,500.00	2,501.00	61	J-7	16.03
PA-6	True	2,500.00	2,501.00	60	H-1	16.01
J-13	True	2,500.00	2,501.00	67	PA-3	12.16
PA-3	True	2,500.00	2,501.00	65	J-13	16.00
J-4	True	2,500.00	2,501.00	64	H-1	10.10
J-16	True	2,500.00	2,501.00	66	H-2	15.96
J-15	True	2,500.00	2,501.00	69	J-1	0.83