



November 11, 2020

Aurora Water
15151 E. Alameda Ave.
Aurora, CO 80012

**RE: *Project Tiger at Porteos
Planning Area 10B
Utility Conformance Letter***

To Whom It May Concern:

Kimley-Horn and Associates, Inc. is submitting this Utility Conformance Letter on behalf of SunCap Property Group, LLC, the developer of Planning Area 10B in the Porteos Master Development, to accompany the Site Plan for Project Tiger at Porteos (the "Project"). The letter is for verification that the Project as described below is in compliance with the Porteos Harvest Road and 56th Avenue Master Utility Report Amendment prepared by CVL Consultants revised April 2017 (the "MUS").

PROJECT DESCRIPTION

The Project is located northwest of the intersection of E 56th Avenue and Jackson Gap Street in Aurora, Colorado (the "Site"). More specifically, the Site is approximately 68.11 acres and is a parcel of land located in the northwest quarter of Section 9, Township 3 South, Range 65 West of the 6th Principal Meridian, City of Aurora, County of Adams, State of Colorado. The proposed site is bounded by Future 60th Ave and vacant future industrial to the North, vacant commercial and Jackson Gap Street to the East, Parcel Floodplain and E. 56th Avenue to the South and vacant commercial property and Harvest Road to the West.

The Project will consist of one 480,000 square foot distribution facility and one 10,200 square foot vehicle maintenance garage to support the distribution facility within the Porteos Subdivision. Associated truck, trailer, van, and employee parking, drive aisles, landscaping, lighting, and utility improvements are also proposed to support the distribution facility. The proposed building is oriented to face east towards the van parking lot with the truck and trailer parking west of the building and employee parking to the south. The Project is anticipated to be accessed from three (3) locations along Jackson Gap Street and two (2) along 56th Ave. Parking and drive aisles, whether in the secured area or the employee parking lot, are designed to provide internal traffic circulation as well as emergency access throughout the Site.

The sewer and water designs presented herein will focus on the sanitary sewer flows and water demands associated with development of the Project. An Overall Utility Plan is provided in **Appendix A**.

DESIGN CRITERIA

Regulations

The current adopted Aurora Water “Water, Sanitary Sewer & Storm Drainage Infrastructure Standards and Specifications” (the “Aurora Water Criteria”) has been used as the basis of design for the Project.

Development Criteria Reference and Constraints

Porteos Harvest Road and 56th Avenue Master Utility Report Amendment prepared by CVL Consultants revised April 2017 (the “MUS”), the Porteos Road Infrastructure – Phase 6 Construction Documents prepared by CVL Consultants dated October 2020 (the “Phase 6 CDs”), and the Porteos – Phase 8 Construction Documents (the “Phase 8 CDs”) were utilized to confirm sewer and water availability and conformance for the Project. Excerpts of the MUS that were utilized in preparation of this letter are provided in **Appendix D**.

WATER SYSTEM

Existing Water System

According to the MUS and the Phase 6 CDs, E. 56th Avenue has an existing 24” water main located on the south side of the existing two lane roadway. An existing 16” water main is located within Jackson Gap Street. 56th Avenue and Jackson Gap Street are planned to be widened as part of the Phase 6 CDs and includes hydrants along both rights-of-way. There are no stubouts identified on the existing conditions nor the Phase 6 CDs. A 16” water main will be installed within E. 60th Avenue with a 12” stubout as identified within the Phase 8 CDs.

Per the MUS, the Site is located within Pressure Zone 3 with high to very high water pressures. Based on the MUS, various pressure reducing valves were installed at five (5) different location in the Porteos water system; however, the pressures on the south side of Porteos will remain on Zone 3 and have higher water pressures.

Assumed Water System Demands

MUS Assumed Water Demands

The MUS water demands were calculated for both Planning Area 10A and 10B and based on a mixed commercial development. Since the Site is being replatted to a larger parcel than assumed in the MUS, a weighted average of these demands was completed. The assumed demands for Planning Area 10B are identified below.

Average Day Demand (ADD) – 58.89 GPM

Maximum Day Demand (MDD) – 164.88 GPM

Peak Hour Demand (PHD) – 264.99 GPM

Aurora Water Criteria Assumed Water Demands

Utilizing the requirements provided in Section 5.00 of the Aurora Water Criteria, a summary of the demands for the Project based on a commercial use with the replatted site acreage, Site demands are identified below.

Average Day Demand (ADD) – 102,165 GPD, 70.9 GPM

Maximum Day Demand (MDD) – 286,062 GPD, 198.7 GPM

Peak Hour Demand (PHD) – 459,743 GPD, 319.3 GPM

Proposed Water Demands

Water demands were calculated by using requirements provided in Section 5.00 of the Aurora Water Criteria. A summary of the demands for the Project are summarized below. Demands are based on Section 5.02.3 of the Aurora Water Criteria and an industrial use with the site acreage as noted in this letter.

Average Day Demand (ADD) – 81,732 GPD, 56.76 GPM

Maximum Day Demand (MDD) – 228,850 GPD, 158.92 GPM

Peak Hour Demand (PHD) – 367,794 GPD, 255.41 GPM

Water System Comparison

MUS Comparison

Comparing the proposed demands for the Project to the MUS assumed water demands, the following delta was determined.

| | Average Day Demand (ADD) (GPM) | Maximum Day Demand (MDD) (GPM) | Peak Hour Demand (PHD) (GPM) |
|--------------------|--------------------------------|--------------------------------|------------------------------|
| MUS Assumed Demand | 58.89 | 164.88 | 264.99 |
| Proposed Demand | 56.76 | 158.92 | 255.41 |
| Delta | (2.13) | (5.95) | (9.57) |

*() indicated values less than the MUS assumed demand

Aurora Water Criteria Comparison

Comparing the proposed industrial demands for the Project to commercial demands for the same size site based on the Aurora Water Criteria, the following delta was determined.

| | Average Day Demand (ADD) (GPM) | Maximum Day Demand (MDD) (GPM) | Peak Hour Demand (PHD) (GPM) |
|-----------------------|--------------------------------|--------------------------------|------------------------------|
| Aurora Water Criteria | 70.9 | 198.7 | 319.3 |
| Proposed Demand | 56.76 | 158.92 | 255.41 |
| Delta | (14.2) | (39.7) | (63.9) |

*() indicated values less than Aurora Water Criteria

Water system demand calculations and comparison tables are provided in **Appendix B**.

WASTEWATER SYSTEM

Existing Wastewater System

According to the MUS, Phase 6 CDs, and Phase 8 CDs, a 15" PVC sanitary main will be installed within future E. 60th Avenue and an 8" PVC sanitary stub off of the 15" PVC main will be installed for the Site.

Assumed Wastewater System Demands

MUS Assumed Wastewater Demands

The MUS wastewater demands were calculated for both Planning Area 10A and 10B and based on a mixed commercial development. Since the Site is being replatted to a larger parcel than assumed in the MUS, a weighted average of these demands was completed. This assumed demand for Planning Area 10B is identified below.

Average Daily Flow – 0.199 MGD, 198,796 GPD

Aurora Water Criteria Assumed Wastewater Demands

Utilizing the requirements provided in Section 5.03 of the Aurora Water Criteria, a summary of the demand for the Project based on a commercial use with the replatted site acreage, the Site demand is identified below.

Average Daily Flow – 102,165 GPD

Proposed Wastewater System Demands

Wastewater demands were calculated using requirements provided in the Aurora Water Criteria. A summary of the demands for the Project are summarized in the table below based on an industrial site acreage of 68.11 acres.

Average Daily Flow – 0.082 MGD, 81,732 GPD

Do you have any demands based on this exact project/use?

At this time, actual demands are not yet known. This report can be updated during civil construction document review if requested by staff.

Wastewater System Comparison

MUS Comparison

Comparing the proposed demands for the Project to the MUS assumed wastewater demands, the following delta was determined.

| | Average Daily Flow (GPD) |
|--------------------|--------------------------|
| MUS Assumed Demand | 198,796 |
| Proposed Demand | 81,732 |
| Delta | (117,064) |

*() indicated values less than the MUS Assumed Demand

Aurora Wastewater Criteria Comparison

Comparing the proposed industrial demands for the Project to commercial demands for the same size site based on the Aurora Water Criteria, the following delta was determined.

| | Average Daily Flow (GPD) |
|--------------------|--------------------------|
| MUS Assumed Demand | 102,165 |
| Proposed Demand | 81,732 |
| Delta | (20,433) |

*() indicated values less than Aurora Water Criteria

Sanitary sewer demand calculations and comparison tables are provided in **Appendix C**.

COMPLIANCE WITH STANDARDS

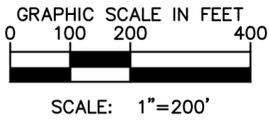
Although some of the improvements identified in the MUS and CDs have yet to be constructed, the demands associated with the Project are anticipated to be in substantial accordance with applicable assumptions utilized to design the downstream infrastructure and is not anticipated to adversely affect these facilities for which they connect. From the analysis presented within this letter, the Project is in general conformance with the assumptions and design included within the MUS, Phase 6 CDs, and Phase 8 CDs.

If you have any questions or comments during your review, please do not hesitate to contact me at 303-228-2307.

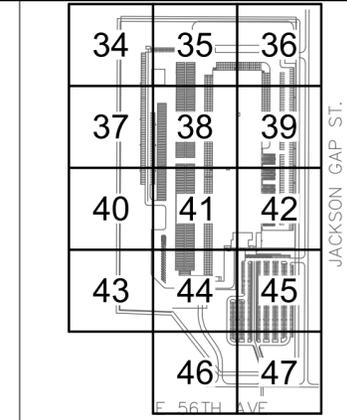
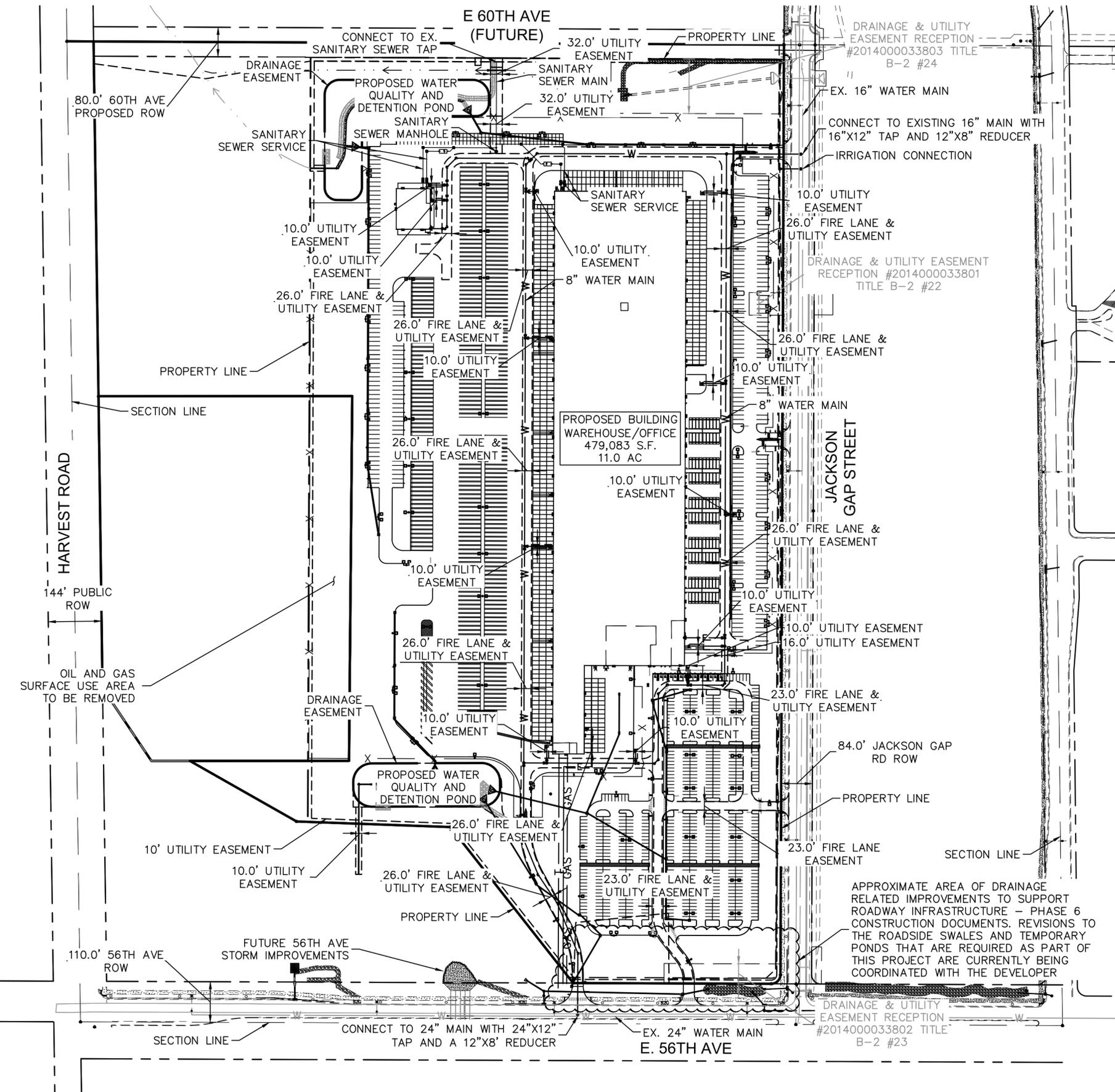
Sincerely,
 KIMLEY-HORN AND ASSOCIATES, INC.

Erin Griffin, P.E.
 Registered Professional Engineer
 State of Colorado No. 42694

APPENDIX A – UTILITY PLAN



PROJECT TIGER AT PORTEOS
SITE PLAN AND PRELIMINARY PLAT
 LOCATED IN THE SW 1/4 OF SECTION 8, TOWNSHIP 3 SOUTH,
 RANGE 65 WEST OF THE 6TH P.M.,
 ADAMS COUNTY, STATE OF COLORADO



GENERAL NOTES

- 1 SANITARY SEWER PIPE SERVICE LINE
- 2 SANITARY SEWER CLEANOUT
- 3 WATER MAIN
- 4 WATER SERVICE LINE
- 5 FIRE SERVICE LINE
- 6 FIRE HYDRANT W/ BOLLARD ASSEMBLY
- 7 FDC W/ APPROVED KNOX HARDWARE
- 8 KNOX BOX

LEGEND:

- PROPERTY LINE
- - - EXISTING EASEMENT LINE
- - - PROPOSED EASEMENT LINE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- ☒ PROPOSED WATER METER
- ☒ PROPOSED FIRE HYDRANT AND BOLLARD ASSEMBLY PER COA STD DETAIL 208
- ⊗ PROPOSED WATER VALVE
- ⊏ PROPOSED TEE
- ⊏ PROPOSED WATER BEND W/ THRUST BLOCK
- ☒ PROPOSED FDC
- S — EXISTING SANITARY SEWER
- S — PROPOSED PRIVATE SANITARY SEWER
- ☉ SANITARY SEWER MANHOLE
- ☐ PROPOSED SITE AND BUILDING LIGHTING

NOTE: ALL ONSITE STORM SEWER IS PRIVATE AND SHALL BE OWNED AND MAINTAINED BY THE OWNER. PUBLIC STORM TO BE MAINTAINED BY THE CITY OF AURORA.

Kimley»Horn
 KIMLEY-HORN AND ASSOCIATES, INC.
 4855 South Ute Street
 Denver, Colorado 80237 (303) 228-2300

PROJECT TIGER AT PORTEOS
 CITY OF AURORA, COUNTY OF ADAMS
 SITE PLAN AND PRELIMINARY PLAT
 OVERALL UTILITY PLAN

DATE: 11/9/2020
 DESIGNED BY: BJC
 DRAWN BY: CM
 CHECKED BY: ELG

FILE NO.
 UT_LOV
 PROJECT NO.
 096360012

SHEET NO.

APPENDIX B – WATER SYSTEM CALCULATIONS



PROJECT: Project Tiger at Porteos

COMPUTED BY: E. Griffin

REVIEWED BY: E. Griffin

DATE: 11/11/2020

PROJECT NO: 096360012

SHEET: 1 OF 2

MUS Demand Comparison

| PLANNING AREA | MUS Demands | | | | Replatted Demands | | | | |
|---------------|----------------|--|------------------------------|-----------------------------|-------------------|-----------------|--|------------------------------|-----------------------------|
| | SITE AREA (AC) | BUILDING AVERAGE DAILY DEMAND, ADD (GPM) | MAX. DAILY DEMAND, MDD (GPM) | PEAK HOUR DEMAND, PHD (GPM) | SITE AREA (AC) | % of Total Site | BUILDING AVERAGE DAILY DEMAND, ADD (GPM) | MAX. DAILY DEMAND, MDD (GPM) | PEAK HOUR DEMAND, PHD (GPM) |
| PA-10A | 59.30 | 51.26 | 143.52 | 230.66 | 31.59 | 31.69% | 27.31 | 76.47 | 122.90 |
| PA-10B | 40.40 | 34.94 | 97.83 | 157.23 | 68.11 | 68.31% | 58.89 | 164.88 | 264.99 |
| | 99.70 | 86.20 | 241.35 | 387.89 | 99.70 | 100.00% | 86.20 | 241.35 | 387.89 |

| | | | |
|------------------|-------|--------|--------|
| Proposed Demands | 56.76 | 158.92 | 255.41 |
| DELTA | -2.13 | -5.95 | -9.57 |

PROJECT: Project Tiger at Porteos

COMPUTED BY: E. Griffin
 REVIEWED BY: E. Griffin
 DATE: 11/11/2020

PROJECT NO: 096360012

SHEET: 2 OF 2

Aurora Water Criteria Comparison

| | SITE AREA (AC) | AVERAGE DAILY DEMAND, ADD (GPD) | BUILDING AVERAGE DAILY DEMAND, ADD (GPM) | MAX. DAILY DEMAND, MDD (GPD) | MAX. DAILY DEMAND, MDD (GPM) | PEAK HOUR DEMAND, PHD (GPD) | PEAK HOUR DEMAND, PHD (GPM) |
|---------------|----------------|---------------------------------|--|------------------------------|------------------------------|-----------------------------|-----------------------------|
| Industrial | 68.11 | 81,732 | 56.8 | 228,850 | 158.9 | 367,794 | 255.4 |
| Commercial | 68.11 | 102,165 | 70.9 | 286,062 | 198.7 | 459,743 | 319.3 |
| DELTA* | | -20,433 | -14.2 | -57,212 | -39.7 | -91,949 | -63.9 |

REMARKS:

*The DELTA row shows the assumed overall development design is in excess of the proposed flow for the Project

APPENDIX C – WASTEWATER SYSTEM CALCULATIONS

PROJECT: Project Tiger at Porteos

COMPUTED BY: E. Griffin

REVIEWED BY: E. Griffin

DATE: 11/11/2020

SANITARY SEWER COMPUTATION SHEET

PROJECT NO: 096360012

SHEET: 1 OF 2

MUS Demand Comparison

| PLANNING AREA | MUS Demands | | | | Replatted Demands | | | |
|---------------|----------------|-----------------|--------------------------|--------------------------|-------------------|-----------------|--------------------------|--------------------------|
| | SITE AREA (AC) | % of Total Site | Average Daily Flow (MGD) | Average Daily Flow (GPD) | SITE AREA (AC) | % of Total Site | Average Daily Flow (MGD) | Average Daily Flow (GPD) |
| PA-10A | 59.30 | 59.48% | 0.173 | 173,082 | 31.59 | 31.69% | 0.092 | 92,204 |
| PA-10B | 40.40 | 40.52% | 0.118 | 117,918 | 68.11 | 68.31% | 0.199 | 198,796 |
| | 99.70 | 100.00% | 0.291 | 291,000 | 99.70 | 100.00% | 0.291 | 291,000 |

| | | |
|------------------|--------|----------|
| Proposed Demands | 0.082 | 81,732 |
| DELTA | -0.117 | -117,064 |

PROJECT: Project Tiger at Porteos

SANITARY SEWER COMPUTATION SHEET

COMPUTED BY: E. Griffin
 REVIEWED BY: E. Griffin
 DATE: 11/11/2020

PROJECT NO: 096360012

SHEET: 2 OF 2

| LINE NUMBER | PROJECTED FLOW DETERMINATION - AURORA WATER COMPARISON | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--------------|-----------|------------------|------------|--|--------------------|--------------------|-----------------------|--------------|----------|------------------------------|--------|---------------|--------------------|-----------|---------------------------------|-------------|-----------------|-----------------|--------------------|-------------------------|--------|------------------------------|
| DESIGN POINT LOCATION | RESIDENTIAL | | | | | | | | COMMERCIAL/INDUSTRIAL | | | | | | | | TOTAL AVERAGE SEWAGE FLOW (CFS) | PEAK FACTOR | PEAK FLOW (GPD) | PEAK FLOW (CFS) | INFILTRATION | | | TOTAL PEAK SEWAGE FLOW (CFS) |
| | ZONING | AREA (ACRES) | NO. UNITS | DENSITY (P.P.U.) | POPULATION | | FLOW FACTOR (GPCD) | AVERAGE FLOW (CFS) | ZONING | AREA (ACRES) | BLDG FT2 | AVERAGE DAILY FLOW ADF (GPD) | GPD/SF | FIXTURE UNITS | AVERAGE FLOW (CFS) | ALLOWANCE | | | | | INFILTRATION (CFS) | CUMULATIVE INFILTRATION | | |
| Industrial | | | | | | | | | AD | 68.11 | | 81,732 | 1.5 | | 0.126 | 0.126 | 4.00 | 326,928 | 0.506 | 0.1 | 0.013 | 0.013 | 0.519 | |
| Commercial | | | | | | | | | AD | 68.11 | | 102,165 | 1.5 | | 0.158 | 0.158 | 4.00 | 408,660 | 0.632 | 0.1 | 0.016 | 0.016 | 0.648 | |
| DELTA* | | | | | | | | | | | | -20,433 | | | | | | | | | | | -0.130 | |

REMARKS:
 *The DELTA row shows the assumed overall development design is in excess of the proposed flow for the Project

APPENDIX D– MASTER UTILITY STUDY EXCERPTS





217130MU1
2013-3010
93W-X,94-95W

PORTEOS
HARVEST ROAD AND 56TH AVENUE
MASTER UTILITY REPORT AMENDMENT
CITY OF AURORA, COLORADO
REVISED APRIL 2017

PREPARED FOR: ACP DIA 1287 INVESTORS, LLC
4530 E. SHEA BLVD., SUITE 100
PHOENIX, ARIZONA 85028
ATTN: BILL WICHTERMAN
PHONE: (602) 494-7800

PREPARED BY: CVL CONSULTANTS OF COLORADO, INC.
10333 E. DRY CREEK AVENUE, SUITE 240
ENGLEWOOD, COLORADO 80112
PHONE: (720) 482-9526

CVL PROJECT #: 8.13.02497.03
STAFF ENGINEER: JOE FERRIS
PROJECT MANAGER: SARAH J. KOLZ

MASTER UTILITY REPORT
FOR
PORTEOS

City of Aurora Approval Block

JD

| | |
|-----------------------|-------------------|
| <u>Vernon A. Adam</u> | <u>08/18/2017</u> |
| Aurora Water | Date |
| <u>Kevin Wegene</u> | <u>09/11/2017</u> |
| City Engineer | Date |
| <u>[Signature]</u> | <u>8/31/2017</u> |
| Life Safety | Date |

**PORTEOS
SANITARY SEWER FLOWS AND POPULATION**

| Basin | Building Use Use | Building Use | | Building Use Size (Ac) | Avg. Daily Flow (GPD/sf) | Avg. Daily Flow (MGD) | Equivalent Population/ | | |
|------------|---------------------|-------------------|-------------|---------------------------|-----------------------------|-----------------------------|---------------------------|-----------|----------------|
| | | Size (1000 sf) | % of SF (1) | | | | Size (1000 sf) | Ac | Population |
| PA-1 | Commercial | 403.88 | 25 | 100.97 | 2.32 | 0.5 | 0.050 | 50 | 115.90 |
| | Hotel | | 50 | 201.94 | 4.64 | 0.5 | 0.101 | 50 | 231.80 |
| | Office | | 25 | 100.97 | 2.32 | 0.2 | 0.020 | 50 | 115.90 |
| | Sub Total | | 100 | 403.88 | 9.27 | | 0.172 | 50 | 463.59 |
| PA-2 | Commercial | 574.36 | 25 | 143.59 | 3.30 | 0.5 | 0.072 | 50 | 164.82 |
| | Hotel | | 50 | 287.18 | 6.59 | 0.5 | 0.144 | 50 | 329.64 |
| | Office | | 25 | 143.59 | 3.30 | 0.2 | 0.029 | 50 | 164.82 |
| | Sub Total | | 100 | 574.36 | 13.19 | | 0.244 | 50 | 659.27 |
| PA-3 | Retail | 783.77 | 25 | 195.94 | 4.50 | 0.15 | 0.029 | 50 | 224.91 |
| | Hotel | | 50 | 391.88 | 9.00 | 0.5 | 0.196 | 50 | 449.82 |
| | Office | | 25 | 195.94 | 4.50 | 0.2 | 0.039 | 50 | 224.91 |
| | Sub Total | | 100 | 783.77 | 17.99 | | 0.265 | 50 | 899.64 |
| PA-4 | Parking | 921.40 | 100 | 921.40 | 21.15 | 0.02 | 0.018 | 15 | 317.29 |
| PA-5 | Industrial | 1592.86 | 100 | 1592.86 | 36.57 | 0.05 | 0.080 | 15 | 548.51 |
| PA-6A | Industrial | 2592.89 | 100 | 2592.89 | 59.52 | 0.05 | 0.130 | 15 | 892.87 |
| PA-6A ESMT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PA-6B | Industrial | 1978.74 | 100 | 1978.74 | 45.43 | 0.05 | 0.099 | 15 | 681.39 |
| PA-6B ESMT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PA-7 | Industrial | 1322.94 | 100 | 1322.94 | 30.37 | 0.05 | 0.066 | 15 | 455.56 |
| PA-8(A-B) | Commercial | 1013.20 | 25 | 253.30 | 5.81 | 0.5 | 0.127 | 50 | 290.75 |
| | Office | | 75 | 759.90 | 17.44 | 0.2 | 0.152 | 50 | 872.24 |
| | Sub Total | | 100 | 1013.20 | 23.26 | | 0.279 | 50 | 1162.99 |
| PA-9A | Commercial | 226.43 | 40 | 90.57 | 2.08 | 0.5 | 0.045 | 50 | 103.96 |
| | Hotel | | 15 | 33.96 | 0.78 | 0.5 | 0.017 | 50 | 38.99 |
| | Event Venue | | 45 | 101.89 | 2.34 | 0.5 | 0.051 | 50 | 116.96 |
| | Sub Total | | 100 | 226.43 | 5.20 | | 0.113 | 50 | 259.91 |
| PA-9B | Industrial | 141.74 | 100 | 141.74 | 3.25 | 0.05 | 0.007 | 15 | 48.81 |
| PA-9C | Commercial | 156.62 | 15 | 23.49 | 0.54 | 0.5 | 0.012 | 50 | 26.97 |
| | Hotel | | 10 | 15.66 | 0.36 | 0.5 | 0.008 | 50 | 17.98 |
| | Office | | 75 | 117.47 | 2.70 | 0.2 | 0.023 | 50 | 134.83 |
| | Sub Total | | 100 | 156.62 | 3.60 | | 0.043 | 50 | 179.78 |
| PA-9D | Commercial | 238.26 | 15 | 35.74 | 0.82 | 0.5 | 0.018 | 50 | 41.02 |
| | Hotel | | 10 | 23.83 | 0.55 | 0.5 | 0.012 | 50 | 27.35 |
| | Office | | 75 | 178.70 | 4.10 | 0.2 | 0.036 | 50 | 205.11 |
| | Sub Total | | 100 | 238.26 | 5.47 | | 0.066 | 50 | 273.48 |
| PA-10(A-B) | Commercial | 830.59 | 50 | 415.29 | 9.53 | 0.5 | 0.208 | 50 | 476.69 |
| | Office | | 50 | 415.29 | 9.53 | 0.2 | 0.083 | 50 | 476.69 |
| | Sub Total | | 100 | 830.59 | 19.07 | | 0.291 | 50 | 953.38 |
| PA-11 | Commercial | 339.90 | 75 | 254.93 | 5.85 | 0.5 | 0.127 | 50 | 292.61 |
| | Office | | 25 | 84.98 | 1.95 | 0.2 | 0.017 | 50 | 97.54 |
| | Sub Total | | 100 | 339.90 | 7.80 | | 0.144 | 50 | 390.15 |
| PA-12 | Industrial | 3268.49 | 100 | 3268.49 | 75.03 | 0.05 | 0.163 | 15 | 1125.51 |
| PA-12 ESMT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Notes:

1. Land use and Building square foot values determined in the Traffic Impact Study (provided by FHU).
2. Avg. Daily Flow (GPD/sf) values provided Stan Tec. (See Lift Station analysis)
3. Equivalent Population per acre as City of Aurora Standard.
4. PA-12 to be used as a distribution center.

| Porteos Water Calculations Average & Maximum Demand Calculation | | | | | | | | | | | | |
|---|---------------------|-------------|----------------------------|---|----------------------|---|--------------------|--|---------------------|--------------------|--------------------------------|--|
| Planning Area | Type of Development | Total Acres | Maximum Building Area (Ac) | AVG Day Demand (gpm/ based on land use) | Avg Day Demand (GPM) | Max Day Demand (gmp/ based on land use) | Max Day Demand GPM | Max Hour Demand (gpm/ based on land use) | Max Hour Demand GPM | Required Fire Flow | Max Day Demand + Fire Flow GPM | |
| PA-1 | Mixed Commercial | 30.3 | 9.27 | 4.52 | 41.91 | 2.8 | 117.35 | 4.50 | 188.59 | 1500 | 1617.35 | |
| PA-2 | Mixed Commercial | 60.2 | 13.19 | 4.52 | 59.60 | 2.8 | 166.87 | 4.50 | 268.18 | 1500 | 1666.87 | |
| PA-3 | Mixed Commercial | 58.8 | 17.99 | 4.52 | 81.33 | 2.8 | 227.72 | 4.50 | 365.97 | 1500 | 1727.72 | |
| PA-4 | Industrial | 57.9 | 21.15 | 1.00 | 21.15 | 2.8 | 59.22 | 4.50 | 95.18 | 1500 | 1559.22 | |
| PA-5 | Industrial | 111.11 | 36.57 | 1.00 | 36.57 | 2.8 | 102.40 | 4.50 | 164.57 | 1500 | 1602.40 | |
| PA-6A | Industrial | 155.65 | 59.52 | 1.00 | 59.52 | 2.8 | 166.67 | 4.50 | 267.86 | 1500 | 1666.67 | |
| PA-6A ESMT | N/A | 16.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| PA-6B | Industrial | 121.21 | 45.43 | 1.00 | 45.43 | 2.8 | 127.19 | 4.50 | 204.42 | 1500 | 1627.19 | |
| PA-6B ESMT | N/A | 14.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| PA-7 | Industrial | 79.4 | 30.37 | 1.00 | 30.37 | 2.8 | 85.04 | 4.50 | 136.67 | 1500 | 1585.04 | |
| PA-8A | Mixed Commercial | 79.3 | 13.95 | 4.52 | 63.05 | 2.8 | 176.55 | 4.50 | 283.74 | 1500 | 1676.55 | |
| PA-8B | Mixed Commercial | 52.9 | 9.31 | 4.52 | 42.08 | 2.8 | 117.83 | 4.50 | 189.37 | 1500 | 1617.83 | |
| PA-9A | Mixed Commercial | 45.3 | 5.20 | 4.52 | 23.49 | 2.8 | 65.79 | 4.50 | 105.73 | 1500 | 1565.79 | |
| PA-9B | Industrial | 15.4 | 3.25 | 1.00 | 3.25 | 2.8 | 9.11 | 4.50 | 14.64 | 1500 | 1509.11 | |
| PA-9C | Mixed Commercial | 18.8 | 3.60 | 4.52 | 16.25 | 2.8 | 45.50 | 4.50 | 73.12 | 1500 | 1545.50 | |
| PA-9D | Mixed Commercial | 28.6 | 5.47 | 4.52 | 24.71 | 2.8 | 69.19 | 4.50 | 111.20 | 1500 | 1569.19 | |
| PA-10A | Mixed Commercial | 59.3 | 11.34 | 4.52 | 51.26 | 2.8 | 143.52 | 4.50 | 230.66 | 1500 | 1643.52 | |
| PA-10B | Mixed Commercial | 40.4 | 7.73 | 4.52 | 34.94 | 2.8 | 97.83 | 4.50 | 157.23 | 1500 | 1597.83 | |
| PA-11 | Mixed Commercial | 40.8 | 7.80 | 4.52 | 35.27 | 2.8 | 98.75 | 4.50 | 158.71 | 1500 | 1598.75 | |
| PA-12 | Industrial | 166.5 | 75.03 | 1.00 | 75.03 | 2.8 | 210.08 | 4.50 | 337.64 | 1500 | 1710.08 | |
| PA-12 ESMT | N/A | 19.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |

Notes:

1. Building square foot values determined in the Traffic Impact Study (provided by FHU)