APPENDIX 13 SEWER & FEASIBILITY STUDY

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Department of Public Works

- Flood Control
- Solid Waste Management
- Special Districts
- Surveyor
- Transportation

Brendon Biggs, M.S., P.E. Director

> Noel Castillo, P.E. **Assistant Director**

David Doublet, M.S., P.E. **Assistant Director**

January 29, 2024

Project and Facilities Management Department 385 N. Arrowhead Avenue San Bernardino, CA 92415-0184

Subject: Updated Sewer Availability Letter/Notice of Intent to Serve

Assessor Parcel Number: 0252-161-09 & 0252-161-10

Account Number: 710013

Property Address: 18313 Valley Boulevard; Animal Care Center

County Service Area 70 BL, Bloomington (District)

Dear Customer:

This letter supersedes the sewer availability letter dated January 22, 2024. The San Bernardino County Department of Public Works, Special Districts Water and Sanitation Division (Division) has reviewed your request for sewer availability to the subject parcels. A Sewer Feasibility Study (Study) has been completed and it has been determined that a sewer connection permit can be issued to serve the parcels. Please be advised the Division does not provide water service for the subject property.

The Study details sanitary and industrial waste discharge requirements that the parcels will be subject to as well as any requirements of the City of Rialto. The following requirements are summarized below.

- Sanitary Waste Flow Site Plan: The site plumbing plan is in revision and will indicate that the site sanitary sewer will connect to the sanitary sewer main located on Valley Boulevard with a 6-inch gravity flow sewer line at the required flow rate.
- Sump Pit: This was for a point of connection to a lift station; however, the sump pit and the lift station will not be required as the revised connection is to the sanitary sewer main located on Valley Boulevard with a 6-inch gravity flow sewer line at the required flow rate.
- A sampling wye is to be installed to allow the City of Rialto to sample the wastewater discharge from the facility.
- Applicant will comply with the City of Rialto's Municipal Code for Nonresidential Wastewater Collection and Treatment (Title 12, Division 2, Chapters 12.24 and 12.27).
- The laundry process will comply with local municipal code and per CDC guidelines to ensure substantial removal of microorganisms and pathogens as the wash liquid enters
- A commercial grade lint interceptor should be required due to potential heavier laundry load than residential (similar to Zurn Z1185 or a smaller commercial grade sized for individual washing machines).

The following requirements and fees must be submitted to the Division when applying for a sewer connection permit:

- Submit a copy of the building permit.
- Complete and submit the enclosed Owner Application. The application can only be completed and signed by the legal property owner(s), or the County agency responsible for sewer payments.
- If warranted, install a backwater valve at the building sewer.

The current fees, payable to CSA 70 BL, are as follows:

Sewer Connection Fee (x 67 EDUs)	\$686,399.59
Sewer Permit Fee	\$75.00
Sewer Inspection	\$98.00
City of Rialto Sewage Treatment Facilities Development Fee	TBD
Fixture Count Fee (over 20 fixtures)	\$65,350.00
Plan Check Fee	\$702.00
Inspection Deposit	\$5,000.00
Total	\$757,624.59

Sewer user fees are applicable upon the date of connection to the sewer system. Please contact the Division at (760) 955-9885, 48 hours in advance, to schedule the sewer lateral inspection. The legal property owner and contractor agree to comply with the law, ordinances and regulations that are now or may herein be in force by the United States Government, the State of California, and San Bernardino County, pertaining to sewer system connections.

This letter and the sewer feasibility study are valid for a period of one year from the date issued. This information is based on a commercial establishment for the referenced parcel. A zone change or subdivision invalidates this sewer availability letter. All fees are subject to change. Any additional charges that may incur will be billed.

Sincerely,

Interim Division Manager

Enclosure: Sewer Feasibility Study

Application for Sewer Service





December 11, 2023

Mr. Jared Beyeler
Administrative Supervision
COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS-SPECIAL DISTRICTS
222 W. Hospitality Lane, 2nd Floor
San Bernardino, Ca 92415-0450

RE: County Service Area 70 Bloomington (BL)

Sewer Service Feasibility Study for APNs 0252-161-09 and 0252-161-10

County of San Bernardino Animal Shelter

Dear Mr. Beyeler:

In accordance with the San Bernardino County Special District's authorization, Albert A. Webb Associates (WEBB) completed the sewer service feasibility study for the County of San Bernardino Animal Shelter for connections to the CSD sewer system.

A. ESTIMATED WASTEWATER GENERATION FROM THE PROPOSED DEVELOPMENT

The proposed project is a new animal shelter and adoption facility. The development is proposed to be located on two parcels fronting the south side of Valley Boulevard between Locust Avenue and Liden Avenue in the Bloomington Area. The project site is within APNs 0252-161-09 and 0252-161-10 (formerly Ayala Park) (Figure 1).

The sewer capacity requirement for the proposed development was determined based on total plumbing fixture units (PFU, refer to Table 1). For this study, the total PFU were calculated to be 954 PFU based on information indicated on the preliminary architectural plans (Attachment A). Per District standards, 20 PFU represents one equivalent dwelling unit (EDU). Also, per the December 17, 2013 agreement between the City of Rialto and CSA 70 BL, the average daily wastewater flow (Q_{ADF}) per EDU is 270 gpd (gallons per day). Therefore, as presented in the flow calculations herein, the proposed development will be assigned 48 EDUs with an estimated average daily flow of 12,960 gpd. Peak flow was then calculated based on the City of Rialto

Wastewater Master Plan¹. Estimated peak wastewater flow (Q_{PK}) for the proposed development is therefore 38,880 gpd (27 gallons per minute).

Table 1 – Plumbing Fixture Verification

Fixture	Number	Unit PFU ²	Total PFU
Drinking Fountain	6	0.5	3
Floor Drain in Dog Kennels	403	2	806
Urinal	4	2	8
Employee Only Toilet	10	4	40
Public Toilets	3	6	18
Bathroom Sinks	11	1	11
Shower	2	2	4
Break Room Sink	5	2	10
Hand Sink	9	1	9
Mop Sink	9	3	27
Clothes Washer	4	2	8
Dish Washer	2	1	2
One-Compartment Sink	2	2	4
Two-Compartment Sink	1	4	4
		Totals:	954

Flow Calculations:

954 PFU ÷ 20 PFU/EDU = 47.7 (Use 48 EDU)

 $Q_{ADF} = 48 EDU \times 270 gpd/EDU = 12,960 gpd$

 $Q_{PK} = 3.0 \text{ x } 12,960 \text{ gpd} = 38,880 \text{ gpd}$

B. EXISTING SEWER SYSTEM CAPACITY REVIEW AND CONNECTION FEES

The project proposes to connect to the existing 18-inch diameter sewer main along Valley Boulevard. The capacity of the existing sewer main was evaluated based on available information per record drawings and the following assumptions:

Pipe Size: 18-inch diameter (record)

Pipe Slope: 0.002 (record)

• Depth of flow/diameter of pipe (d/D): 0.75

¹ August 2022, City of Rialto, Final Wastewater Master Plan, peak dry weather flow is 1.2 to 3 times average dry weather flow. For the purposes of this feasibility study, the peaking factor of 3 will be used.

² Plumbing Fixture Units are based on the 2022 California Plumbing Code which is typical for industry standards.

Roughness Coefficient (n): 0.013Available Pipe Capacity: 2.77 MGD

Pursuant to the March 2017 Valley Corridor Specific Plan, Bloomington, San Bernardino County, the plan proposed up to 1,474 EDUs within the CSA 70 BL's service area. This equates to 1.59 MGD of peak wastewater flow, therefore the existing 18-inch diameter sewer main has capacity to convey the Specific Plan's projected flow. Currently, the December 17, 2013 Rialto-CSA 70 BL agreement allows for connections up to 419 EDUs. As development occurs, CSA 70 BL will require additional capacity from the City of Rialto.

There are four existing service connections to the existing 18-inch diameter sewer main with two additional proposed residential connections under review. Table 2 summarizes the existing service connections, pending, and the proposed Animal Shelter Project.

Table 2 – Existing Sewer Service Connections

Service Connection	EDUs
O'Reilly Auto Parts	2
Bloomington Housing Partners Ph I	106
Bloomington Housing Partners Ph II	84
San Bernardino Co Library	5
Bloomington Housing Partners Ph III	112
Existing Connections Subtotal	309
Two Residential Units Under Review	2
San Bernardino Co Animal Shelter	48
Proposed Connections Subtotal	50
Projected Connections Total	359¹

After the development of the proposed two residential projects and Animal Shelter project, the total projected sewer flow is equivalent to 359 EDUs which equates to 0.29 MGD peak wastewater flow.

The following summarizes the total projected sewer flow and EDUs with the available capacities for sewer main pipe, conveyance, and treatment.

Total Projected Peak Flow (0.29 MGD) < Pipe Capacity (2.77 MGD) Total Projected EDUs (359 EDUs) < Rialto Agreement (419 EDUs)

¹ Based on the projected total connections, CSA 70 BL's available capacity with City of Rialto is 60 EDUs.

Therefore, the existing sewer main and Rialto Agreement have capacity to provide the sewer service to the proposed Animal Shelter.

<u>CSA 70 BI Sewer Connection Fees:</u> CSA 70 BL currently charges a sewer connection fee of \$10,244.77 per EDU. This fee is for conveyance capacities in the December 2017 Rialto-CSA 70 BL Agreement. The estimated total connection fee for the proposed development is equal to \$10,244.77 x 48 EDUs = \$491,748.96.

The City of Rialto charges a separate Sewer Treatment Facilities Development fee. This fee is to be determined.

C. OFF-SITE PIPELINE REQUIRED AND ESTIMATE COST

The proposed Animal Shelter project fronts Valley Boulevard with the existing 18-in diameter sewer main as shown in Figure 1. It is anticipated that the project will construct a single lateral from the project to the sewer main in Valley Boulevard. The details of connection should be determined by the development's civil engineer working with the building architect and verified with District staff through the plan-check process. There are no immediate off-site sewer improvements required for the proposed development.

D. SUMMARY OF SEWER STUDY AND FEES

On-site plumbing facility
 Property owner to construct

Off-site construction cost
 None

CSA 70 BL Connection fee \$491,748.96

City of Rialto Facilities Development fee TBD

Permit and inspection fees
 Per District fee schedule

Information provided in this report is valid for a period of ONE YEAR from the date of the final report. However, all fees and charges provided in this study will be subject to updates as well as inflationary adjustments by the water and sanitation division depending on commencement and completion of the project.

It is the District's policy to provide service as a first come first serve basis, therefore as other potential future projects develop and if there are delays on Animal Shelter project, the District may consider performing sewer flow monitoring to confirm actual sewer flows.

Because the Animal Shelter project has unique uses and is nonstandard, the District may consider reviewing domestic water meter readings (domestic water meters only excluding irrigation meters) to confirm the sewer generation estimates. The sewer generated by this project should be a direct correlation (100-percent) to domestic water use.

During the plan check process, in addition to the District's design standards, the proposed Animal Shelter project will be subject to the following sanitary and industrial waste discharge requirements as well as any requirements of the City of Rialto as summarized below.

Industrial Waste Discharge Requirements:

- Washers: The three (3) washers in Support Building and one (1) in the Clinic are provided to wash facility required laundry items such as pet blankets, surgical drapes, and towels.
- Medical Laundry: Surgical drapes and towels are intended to be washed and re-used on site in the provided equipment.
- Solid Animal Waste: Per DPH-ACC, the program is designed for solids to be picked up by staff and discarded in a provided trash dumpster. The floors are then high pressure washed. The kennel drains are connected into the facility's main sanitary sewer, where a hair interceptor is to be placed before connecting to the main sanitary sewer off-site.
- Kitchen and Multipurpose Room: This is for community animal adoption events and meetings where pre-made food and beverages may be served to the attendees.
- Other Kitchen and Cleaning Area: This is for specialized food preparation for the cattery; no cooking, frying, or boiling water will be performed. The cleanup area is for cat food bowls.
- Sanitary Waste Flow Site Plan: The site plumbing plan is in revision and will indicate that the site sanitary sewer will connect to the sanitary sewer main located in Valley Boulevard with a 6-inch gravity flow sewer line at the required flow rate.
- Sump Pit: This was for a point of connection to a lift station however the sump pit and the lift station will not be required as the revised connection is to the sanitary sewer main located in Valley Boulevard with a 6-inch gravity flow sewer line at the required flow rate.
- Pharmaceutical, Biological, Medical Waste Procedures: Per DPH-AC the Animal Shelter will utilize various Sharps, medical waste, etc. for proper sorting and disposal standard practices and procedures.

Sanitary and Industrial Waste Discharge Requirements:

Pursuant to the December 2017 Rialto-CSA 70 BL Agreement, Rialto may monitor or restrict the discharge of any individual user located in the service area as if the user was located in Rialto¹. Therefore, in addition to the requirements above, the following pre-treatment requirements should be applied to this project.

- A sampling wye is to be installed to allow Rialto to sample the wastewater discharge from the facility (see attached sample detail on Figure 2).
- Applicant to comply with the City of Rialto's Municipal Code for Nonresidential Wastewater Collection and Treatment (Title 12, Division 2, Chapters 12.24 and 12.27).
- The laundry process to comply with local municipal code and per CDC guidelines to ensure substantial removal of microorganisms and pathogens as the wash liquid enters the waste stream.

¹ Section 4.01 Pre-Treatment Program, Quality Specifications and Standards, December 2017 Rialto-CSA 70 BL Agreement

 A commercial grade lint interceptor should be required due to potential heavier laundry load than residential (similar to Zurn Z1185 or a smaller commercial grade sized for individual washing machines).

Should you have any questions or require additional information, please contact our office.

Sincerely

ALBERT A. WEBB ASSOCIATES

Sinnaro Yos, P.E. Senior Engineer

Enclosures: Figures 1 and 2

Plan Sheets PA-101, PA-103, PBC-101, PD-101, PE-101, PI-101, PS-101

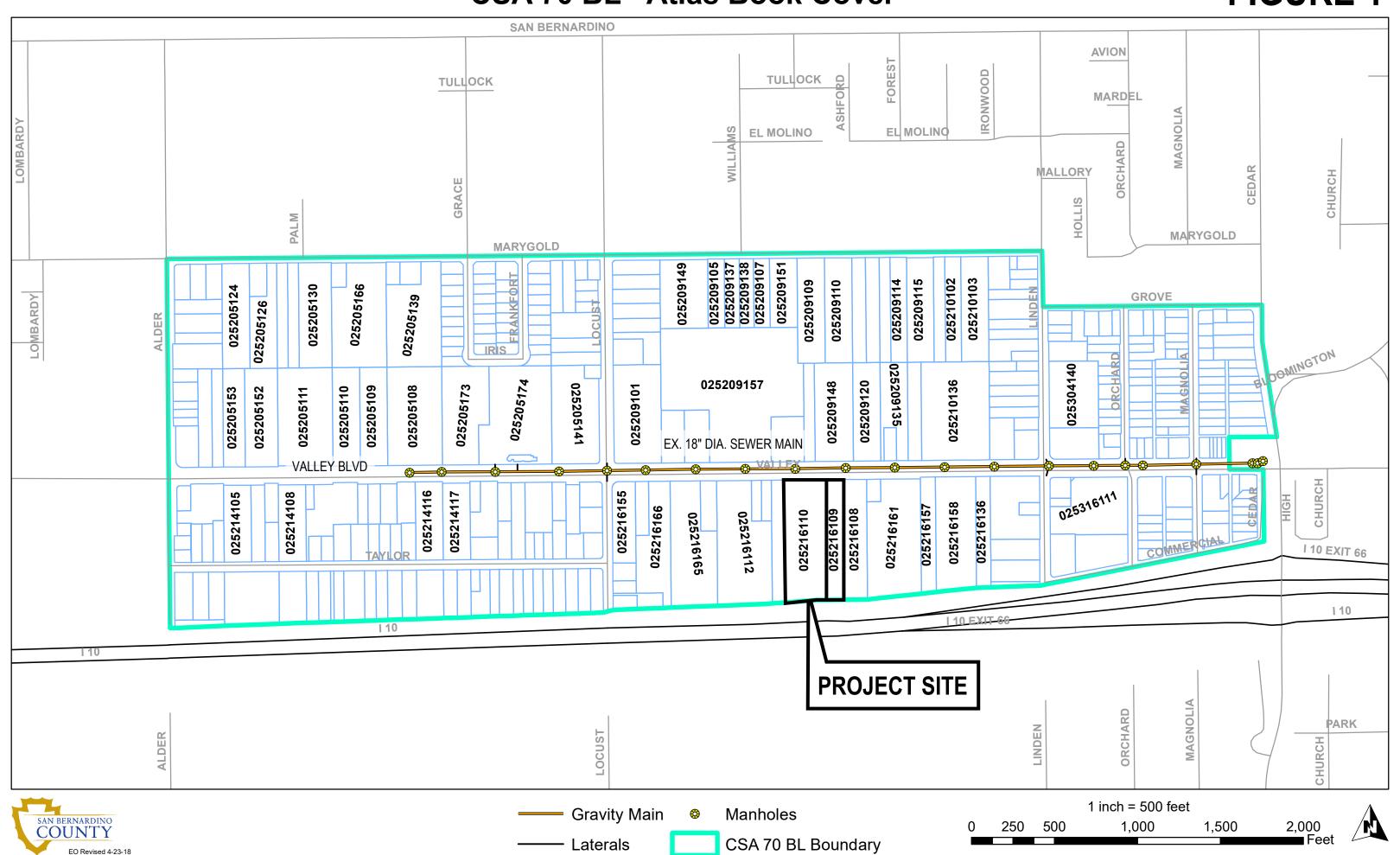
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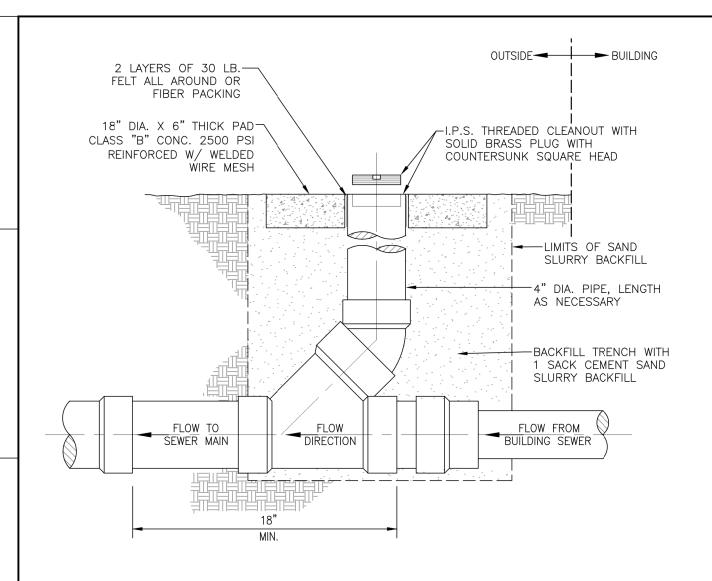
Carlos M. Martinez, SBC DPW, Special Districts

Kris Danielson, WEBB Bradley A. Sackett, WEBB

CSA 70 BL - Atlas Book Cover

FIGURE 1





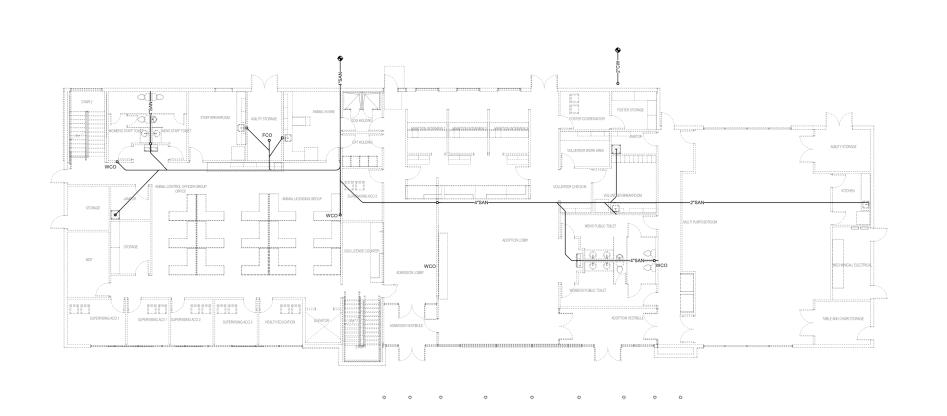
NOTES:

- 1. BARREL DIAMETER OF SAMPLING WYE SHALL BE A MINIMUM OF 2" LARGER THAN BUILDING DISCHARGE LINE.
- 2. DIAMETER OF RISER PIPE SHALL BE 4".
- 3. THE LOCATION OF THE SAMPLING WYE MUST BE ACCESSIBLE AT ALL TIMES TO DISTRICT PERSONNEL.
- 4. THE SAMPLING WYE SHALL NOT BE LOCATED IN TRAFFIC AREAS.
- 5. ALL MATERIALS UTILIZED SHALL CONFORM TO DISTRICT STANDARDS.

	SCALE:	CEVALED CANADURIC VALVE DETAIL	DRAWING NO.
		SEWER SAMPLING WYE DETAIL	FIGURE 2
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		EXAMPLE	W.O.

Attachment A

Preliminary Architectural Plans





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1177 Idaho Street, Suite 200 Redlands, CA 92374 Phone: 909-335-7400 Fax: 909-335-7299 info@miller-aip.com



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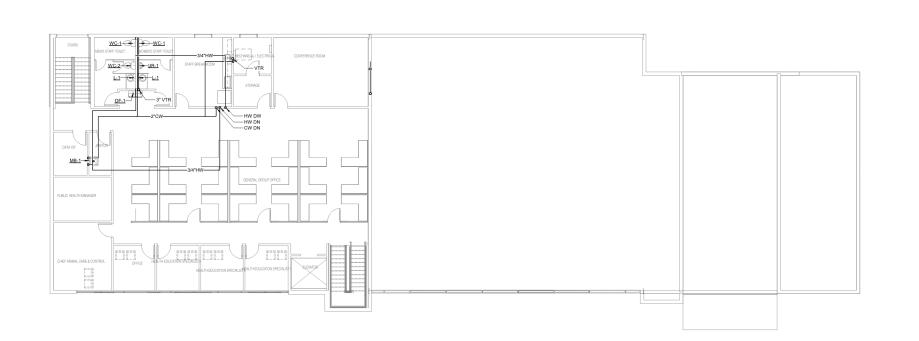
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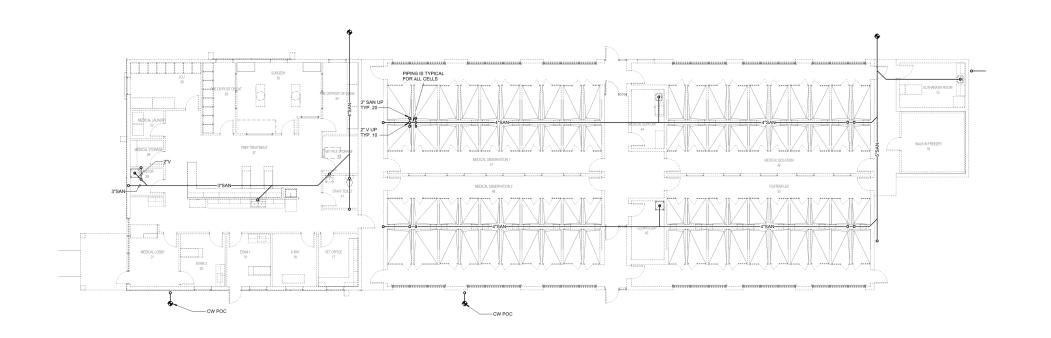
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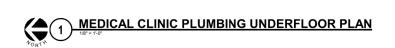
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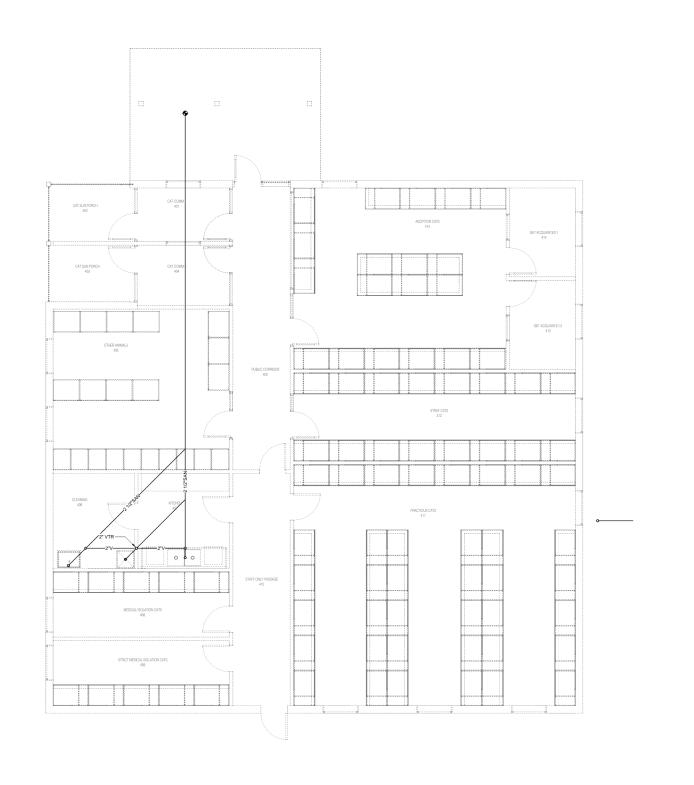
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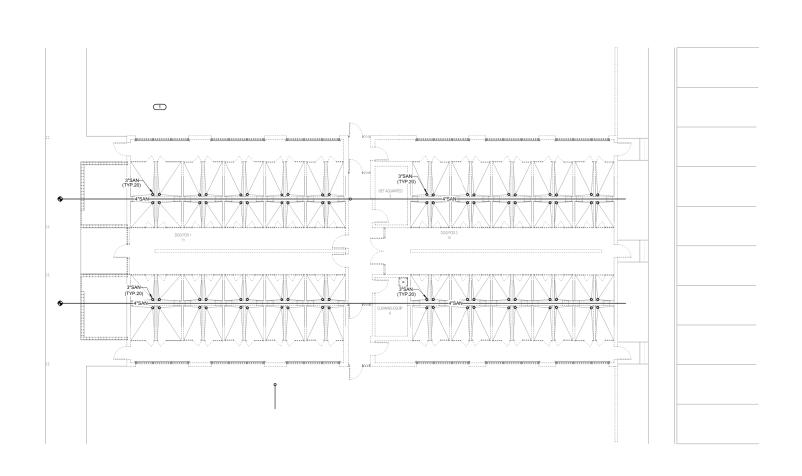
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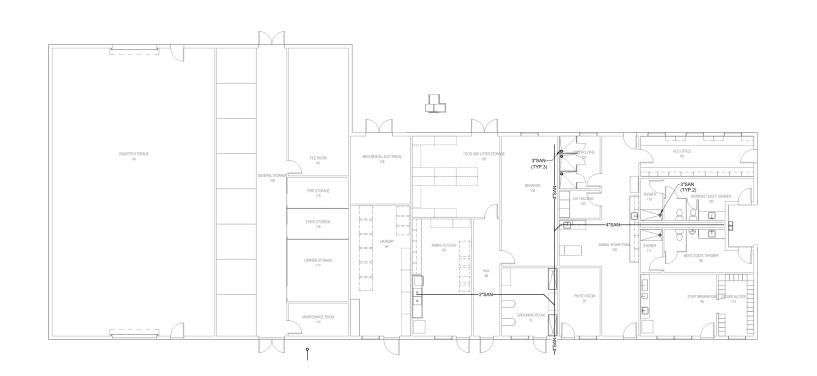
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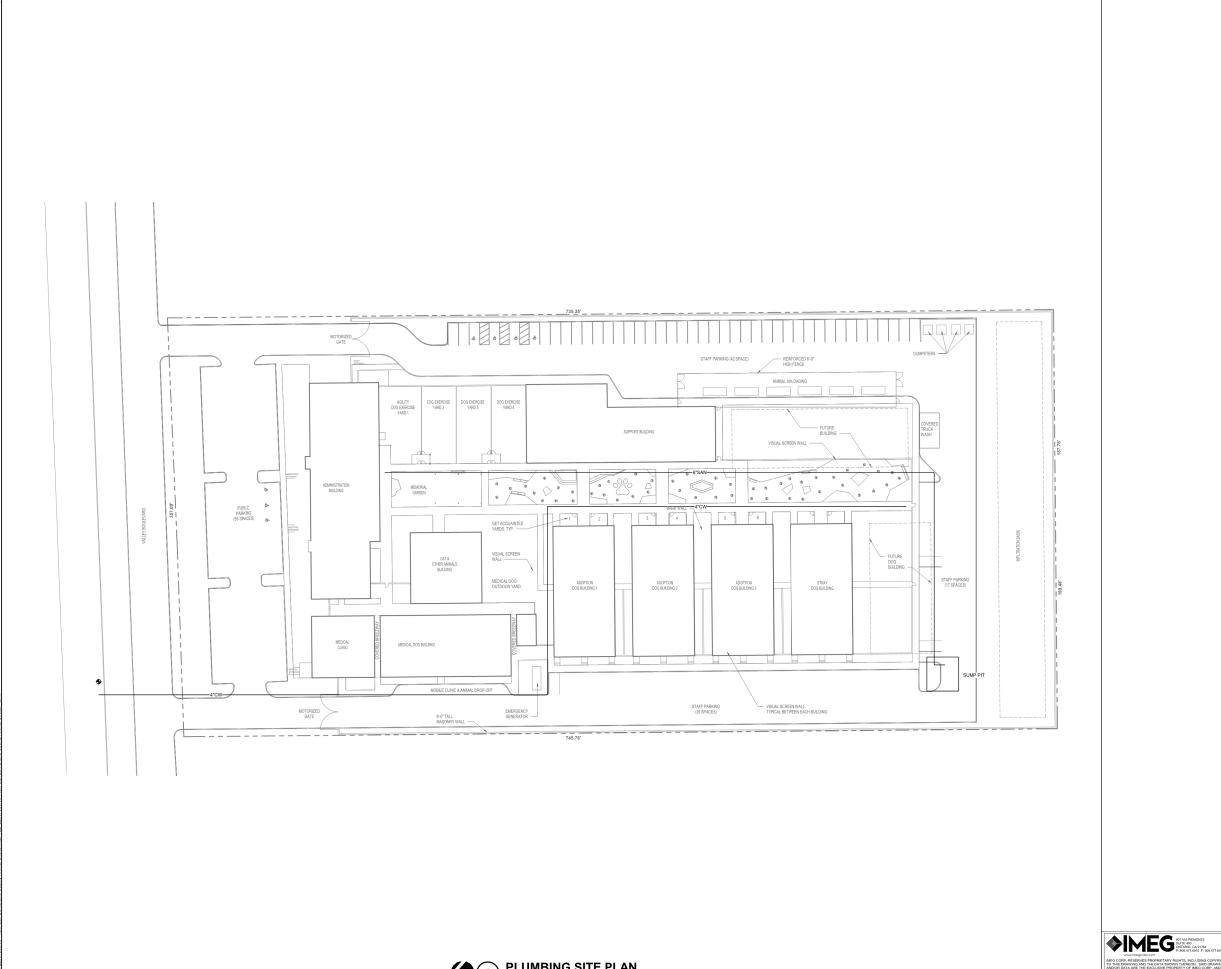
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PLUMBING SITE PLAN

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PLUMBING SITE PLAN



County of San Bernardino Department of Public Works Special Districts

WATER AND SANITATION DIVISION

222 W. Hospitality Lane, 2nd Floor San Bernardino, CA 92415-0450 PO Box 11969 San Bernardino, CA 92423 Phone (760) 955-9885 Fax (909) 386-8839 customerservice@sdd.sbcounty.gov

APPLICATION FOR SEWER SERVICE

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AGREEMENT: The legal property owner or legal author as supplied by the County of San Bernardino, Special I the property and, at the option of the Division, legal actio of this application guarantees payment of future bills at establishment fee of \$50.00 will be charged in lieu of application may result in disconnection of water s account. This bi-monthly fee will continue to be charter of the Agreement may be executed in multiple counterpart.	Districts Department, Water and Sanitation Division. Been may be taken that could result in a lien being recorded and agreement to all the Rules and Regulations and Court of a security deposit and will appear on your first bill service, a lien placed on the property and/or a \$3 arged until the application and supporting documents, each of which, when solely executed, shall be come affective on the date of the support of th	Bills for service shall be colled against the property for Drdinances for Division. A ling statement. Failure 155.00 failure to notify feentation are received. Ideemed an original, but a each of said originals has	onsidered or unpaid d A non-refur to return ee being a	a debt agains lebt. Signature ndable service the enclosed
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