



1391 Engineer Street • Vista • California 92081-8840
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 www.vid-h2o.org



90th Anniversary
 1923 - 2013

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March 28, 2013

City of San Marcos
 Planning Division
 1 Civic Center Dr
 San Marcos CA 92069-2918

Owner Farouk Kubba Location N. of Santa Fe Hills at the Northern Terminus of N. Las Posas Rd. LN 2013-009
 Impact Statement _____ TSM No. _____ TPM No. _____
 PC No P13-0009 (SP Mod & TSM) SDP _____ Parcel No's. 182-110-02 & 03; 182-111-01;
184-101-14 & 15; 184-102-18, 32 & 44; 184-240-13, 14, 15, 32 & 33; 184-241-05, 06, 07 & 08

NOTICE: This is a preliminary review of the project. Additional requirements may be imposed should conditions warrant. **This letter does not constitute a commitment for water service.** Commitments for water service are made by separate documents, such as accepted meter applications or executed construction contracts, or by separate letters of commitment. Water service will only be provided under the Rules and Regulations of the District, after all required fees have been paid and all District conditions have been satisfied. This letter is for informational purposes and intended for planning purposes only.

- _____ Totally within the Vista Irrigation District.
- X All Grading and Improvement plans are required to be submitted to District for review and approval.
- X All or a portion of the project is not within the boundaries of the Vista Irrigation District. The land not within the Vista Irrigation District is not eligible for water service from the District. Vallecitos Water District should be contacted for water service availability.
- X One or more of the following requirements apply in order for the District to supply water to this project:
 - A public waterline extension
 - Installation of a reduced pressure detector assembly (RPDA) to serve your private system
 - Installation of water facilities off existing District Waterlines(s)
 - All lots being created must be adjacent to a public water main and served through individual water meter(s) and/or RPDA(s).
- X A Specific Easement (ref. Vista Irrigation District Standard Drawing 5-1) is necessary for:
 - X public waterline extension X existing waterline. In addition, the District may require easements through the property for future extensions. If any off-site easements are needed, the owner of the property is responsible for obtaining them and for the expenses that may be incurred.
- X Specific Easement No's. SR7 & SC7 encumbers the property. (Owners shall not erect, construct or permit to be erected or constructed any buildings, walls, fences, streets or any other improvements, including but not limited to trees, shrubs or other landscape improvements within the limits of said right of way without the written consent of Vista Irrigation District.)
- X An existing District waterline crosses or is adjacent to the land being developed (see-attached plat) and should be shown on the final map. These waterlines may need to be replaced or relocated due to the grading operations or project configuration. The District has a 14" NP, 14" AC and an 8" AC waterline that cross the subject property. The District also has an abandoned 6" NP and an 18" concrete waterline that cross the property.

- The Parcels do not have water rights and must establish full water rights before water service is provided. To establish water rights over the project may require fees and will require the preparation of the water rights documents, which are to be signed by the owner.
- An off-site meter is being created by this minor/major subdivision and is subject to further rules and regulations.
- Service is being provided via (an) existing water meter(s). However, additional meters or water facilities may be needed.
- This project is subject to payment of the District's Capacity Fee as well as the San Diego County Water Authority's Capacity Charge at the time application is made for water service.
- In order to provide fire protection reliability and minimize water quality concerns, this project may require more than one connection to the District's system in order to create a loop.
- A complete hydraulic analysis and design study will be required to determine available domestic service pressures, fire flow availability, on-site and/or off-site system improvements required to serve the project. The owner is to contact the District's Engineering Department to make arrangements for the study. Contact Vallecitos Water District for portions not in Vista Irrigation District's boundaries
- When the required fire flow amount and fire hydrant locations are known, the developer and his engineer must meet with District staff to discuss water service to the site.
- Irrigation system(s) shall be designed and constructed per the "Rules and Regulations for the Use of Reclaimed Water Within the Vista Irrigation District."
- If the owner of this residential development desires to construct it in phases, he is required to request it in writing before or at the time the improvement plans are submitted to the District for plan checking. The owner must also get written approval from the City of San Marcos Building Department.
- The District's water system design criteria requires that a **minimum residual** pressure of 30 psi during peak hour conditions be provided **at each water meter** required for the project. Additionally, required fire flows for the project must maintain a minimum of 20 psi during maximum day conditions. The District has a 14" NP and AC size waterline crossing the subject property with a maximum hydraulic gradient of 984 feet. The owner should contact the Fire Agency having jurisdiction over this project to obtain fire flow requirements and fire control facilities needed to serve the project.

Meters serving commercial or industrial zoned lands are required to have an approved District backflow device. If fire hydrants are required which are not adjacent to any District waterlines or which are adjacent to undersized waterlines, a waterline extension may be required which may also require specific easements.

If you have any questions, please contact us at (760) 597-3116.

Sincerely,



Al Ducusin
Engineering Department Manager

AD/ms

cc: Eileen Koonce, Vallecitos Water District



1391 ENGINEER STREET
 VISTA CA 92081-8840
 (760) 597-3116 / (760) 597-2632 FAX

Check One:

- Hydraulic Analysis
 Submit AutoCAD Drawing
 Fee: **\$509.00**
- Fire Flow Analysis
 Fee: **\$191.00**

FIRE FLOW INFORMATION REQUEST

Requestor's Name: CLT Jason Greeninger Date: 2-8-13
 Mailing Address: 160 Industrial St Suite 200 San Marcos CA 92078
 Telephone: 760 471 2365 Fax: _____
 Location where flow information is desired (be specific): San Marcos Highlands Project
at end of Las Posas Rd
 A.P.N.: See attached list City or County Ref. No.: _____
 Required fire flow in gpm at 20 psi: 1500 (Contact Fire Agency for Required Flow)
 Purpose of request: Flow availability Fire Sprinkler design _____ Other _____
 Requestor's Signature: [Signature] MS
 Engineering Dept. Initials

Below to be completed by Vista Irrigation District.

Assumed Elevation 853 Map No. K19 Zone 984
 Static Pressure 56 psi Node TEMP (J80732)
 Maximum Day Residual 47 psi Street Main Size NEW 8" & 10"
 Fire Flow Available 1500 gpm at 30 psi residual pressure LN 2013-009

Comments: The results of the hydraulic analysis conclude that the subject project will be served from the District's 984 pressure zone with supplemental connections to the Vallecitos Water District's 920 pressure by installing the improvements shown on the attached schematic drawing. With these improvements, peak hour pressures within the subdivision can be expected to range from 126 psi at the lowest elevation of 670 feet to 47 psi at the highest elevation of 853 feet. Fire flows of 1,500 gpm are expected to be available with residual pressures ranging from 124 psi at the lowest elevation to 30 psi at the highest elevation.

Adjustment of the District's boundary at the southern portion of the project will require approval of VID and VWD Board of Directors and LAFCO.

The flow predicted above was developed using a computer model and is not an actual field flow test. The computer simulation is based on a maximum day system demand with no part of the water system upstream of the fire flow demand point having less than 20 psi residual pressure. **All predicted flows are street water main flows and do not simulate flow available from a fire hydrant or fire sprinkler system.**

The District makes no guarantee that these flows are presently available, nor do we guarantee that these flows will be available in the future due to continued growth that places additional demands for water on our water distribution system. Availability of flow is also subject to shutdowns and variations required by the operation of the District's distribution system.

If you have any other questions involving the availability of fire flow to your properties, please contact our Engineering Department, at (760) 597-3116.

Brian S Smith Date 7/11/13
 Brian S. Smith, Director of Engineering

cc: Fire Agency Map Attached