

TEXAS WATER COMMISSION

APR 20

Paul Hopkins, Chairman
John O. Houchins, Commissioner
B. J. Wynne, III, Commissioner



J. D. Head, General Counsel
Michael E. Field, Chief Examiner
Karen A. Phillips, Chief Clerk

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Allen Beinke, Executive Director

April 19, 1988

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Mr. Melvin Johec
Eden Home for the Aged, Inc.
631 Lake View
New Braunfels, TX 78130

AC PB

Re: Sanitary Sewer Construction, Eden Home, City of New Braunfels; Request for Approval, 31 Texas Administrative Code (TAC) Section 313.4

Dear Mr. Johec:

We have completed our review of the above referenced plans prepared by Groves & Associates, Inc. and received in our Central Office on April 4, 1988. That portion of the proposed sewage collection system which is contained within the Edwards Aquifer Recharge Zone (ERZ) consists of approximately 447 linear feet of 8-inch gravity sewer line with appurtenances. These plans have been reviewed for compliance with 31 Texas Administrative Code (TAC) Section 317 comprised of general design requirements Design Criteria for Sewerage Systems, plus special requirements in 31 TAC Section 313.4 specifically related to the construction of sanitary sewage collection systems located on the ERZ.

The plans generally comply with this Agency's minimum requirements and we note that, unless otherwise specified, construction will be in accordance with the City of New Braunfels "Water/Sewer Connection and Construction Policy Manual". Approval is hereby granted, subject to the conditions listed below and with the understanding that construction shall be in accordance with the aforementioned design criteria, special requirements and specifications.

1. In all cases, the appropriate bedding class shall be used to support all anticipated loads (31 TAC Section 317.2(a)(4)). Bedding classes shall be equivalent to that described in ASTM D-2321 for semi-rigid and flexible pipe or ASTM C-12 for rigid pipe. The use of sand for pipe embedment and/or backfill in blasted rock shall not be allowed.
2. Where PVC sewer lines cross water mains and the separation distance is 9 feet or less, the dimension ratio shall be 26 or less and pressure pipe must be utilized as specified in ASTM D-2241 or AWWA C-900. In addition, for either PVC pipe or ductile iron pipe,
 - a. the separation distance shall not be less than 6 inches.
 - b. pipe and joints shall be pressure rated to a minimum of 100 psi.
 - c. if the separation distance is between 2 feet and 6 inches, the pipe and joints shall be pressure rated to a minimum of 150 psi.
 - d. sewer lines shall be located under the water mains unless otherwise approved by the Texas Water Commission and/or the Texas Department of Health.

3. All ductile iron pipe used in this system shall be corrosion protected on both the interior and exterior surfaces. All corrosion protection materials shall be applied and/or installed in such a manner as to maintain a continuously protected surface after final pipe installation.
4. Sewer lines that bridge caverns, sinkholes or solution channels shall be constructed in a manner that will maintain the structural integrity of the pipe. When such geologic features are encountered, excavation shall be immediately halted and the location and extent shall be reported to the District 8 Office. Construction shall not continue until adequate design and construction methods are approved by the Texas Water Commission District 8 Manager.
5. In compliance with 31 TAC Section 313.4(b)(2), all manholes shall have bolted, watertight rings and covers. Every fourth manhole shall be provided with alternate means of venting as specified in 31 TAC Section 317.2(c)(5)(E).
6. A deflection test shall be conducted on the system after the final backfill has been in place at least 30 days in accordance with 31 TAC Section 317.2(a)(4)(B). The test shall be performed without mechanical pulling devices and pipe deflection shall not exceed 5%.
7. Every five years after the certification (item 11) the system shall be inspected to detect excessive leakage. The type of test must receive approval from the Executive Director prior to test initiation. The results of such testing shall be certified by a Registered Professional Engineer as having been correctly performed and shall be reported to the District 8 Office along with plans for any corrective action (31 TAC Section 313.4(b)(6)).
8. The District 8 Office shall be notified at least 4 working days in advance of any pre-construction conference.
9. This approval shall not be construed as approval for new connections, increased flow, or significant changes in influent quality that will result in violations of the permit requirements for the treatment facility to which this system connects.
10. Blasting for sewer line excavation shall be done in accordance with appropriate criteria established by the National Fire Protection Association.
11. Certification by a Registered Professional Engineer that the collection system meets or exceeds the requirements of 31 TAC Section 313.4 (a)(10) shall be forwarded to the Executive Director in accordance with 31 TAC Section 313.4 (b)(5). A copy of this certification shall also be submitted to the District 8 Office.

12. Private service laterals connecting to this system shall be inspected prior to covering to certify that they have been constructed in conformance with the applicable provisions of 31 TAC Section 313.4. Copies of this certification shall be forwarded to the District 8 Office in accordance with 31 TAC Section 313.4 (b)(10).

If you have any questions or require additional information, please contact Ms. Jeffie Barbee at TWC District 8 Office, 140 Heimer Rd., Suite 360, San Antonio, Texas 78232-5028, (512) 490-3096 or Mr. Hank Smith at (512) 463-8539 in Austin.

Sincerely,

for *Res. G. McDonnell, Jr., P.E.*
Allen Beinke
Executive Director

ccs: Groves & Associates, Inc.
City of New Braunfels
Edwards Underground Water District
Texas Water Commission District 8 Office

TEXAS WATER COMMISSION



Paul Hopkins, Chairman
John O. Houchins, Commissioner
B. J. Wynne, III, Commissioner

J. D. Head, General Counsel
Michael E. Field, Chief Examiner
Karen A. Phillips, Chief Clerk

Allen Beinke, Executive Director

May 25, 1988

Mr. Melvin Johec
President, Board of Directors
Eden Home
457 Landa
New Braunfels, Texas 78130

MAY 27

Re: Eden Home - Request for Water Pollution Abatement Plan; 31 Texas
Administrative Code (TAC), Section 313.3

Handwritten notes:
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Dear Mr. Johec:

We have completed our review of the water pollution abatement plan which was submitted to the District 8 Office on February 9, 1988, and received by the Austin Office on February 19, 1988. Review of the submitted plans and discussions with the District 8 Office indicated that the proposed development project includes 5 multi-dwelling residences that will contain 14 individual units. The area of construction activity is approximately 2 acres. Wastewater collection and treatment will be by the City of New Braunfels system.

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The plan for this development has been reviewed for compliance with 31 Texas Administrative Code (TAC), Section 313.3 which sets forth the pollution abatement criteria for development located on the recharge zone of the Edwards Aquifer. The proposed pollution abatement activities are in general agreement with 31 TAC, Section 313.3 and approval of this phase of the development is hereby granted with the following conditions:

- 1) This approval applies only to the construction of the 5 multi-dwelling residences containing the 14 individual units.
- 2) The private service laterals from each unit shall be inspected after installation and prior to covering by a Texas Registered Professional Engineer or a Registered Sanitarian. The engineer or sanitarian shall then certify that each lateral has been constructed in compliance with the appropriate construction requirements of 31 TAC, Section 313.4. Copies of the certification reports shall be forwarded to both the holder of the waste discharge permit to which the collection system connects and to the Texas Water Commission District 8 Office located at 140 Heimer Road, Suite 360, San Antonio, Texas 78232-5028.
- 3) If any solution openings (such as caves or pipes) or sinkholes are discovered on the site during land clearing, excavation or blasting, the developer or his agent shall notify the District 8 Office in San Antonio. Construction in the vicinity of such a feature shall cease pending approval by the District 8 manager of the proposed method to prevent pollutants from entering the area(s).

Mr. Melvin Jochec
Eden Home
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During the course of development of this site, the owner/developer shall comply with all applicable provisions of 31 TAC, Section 313.3. Additionally, Eden Home shall remain responsible for the aforementioned provisions and special conditions until such responsibility is legally transferred to another person or entity.

Please be reminded that 31 TAC, Section 313.3(e) requires you to: (1) record in the county deed records that this property is subject to the approved water pollution abatement plan; (2) submit to the Executive Director, proof of this recordation of notice no less than ten days prior to commencing construction; and (3) notify the District 8 Office in San Antonio when construction will commence, prior to beginning construction. Any substantial modification, as outlined in 31 TAC, Section 313(f), to this approved water pollution abatement plan must be reported to the District 8 Office and approved by the Executive Director.

Also, 31 TAC, Section 313.3(g) requires that during construction, you submit quarterly progress reports on the status of construction to the District 8 Office. Please note that 31 TAC, Section 313.3(h) states that this approval expires two years from this date unless, prior to the expiration date, construction has commenced on the site. Enclosed is a suggested format you may wish to use to deed record your approved water pollution abatement plan.

If you have any questions or require additional information, please contact either Ms. Jeffie Barbee at (512) 490-3096 in San Antonio or Mr. Rob Conti at (512) 463-8497 in Austin.

Sincerely,

for *Rev. G. McDonnell, Jr., P.E.*
Allen Beinke,
Executive Director

Enclosure

ccs: Mr. Al Groves, P.E., Groves and Associates, Inc.
City of San Antonio
County of Bexar
Edwards Underground Water District
Texas Water Commission District 8 Office