



# CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-2724

## Public Works Department

300 Sixth Street

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November 30, 2005

Mr. Robert A. Rothermel, P.E.  
Alliance Architects and Engineers  
706 West Boulevard  
Rapid City, SD 57701

RE: South Valley Mobile Estates

Dear Mr. Rothermel:

In your letter dated November 9, 2005 to Ms. Emily Fisher of the Growth Management Department you requested an exception to the City's Drainage Criteria Manual. In general, the request asks that the detention pond planned for South Valley Mobile Estates be designed for a 25-year storm rather than the required 100-year storm. This is based on the fact that the mobile home park is located in the 100 year flood plain and a detention pond based on the 100 year storm would serve no purpose. It would be flooded during the design event.

The Engineering Division agrees with the rationale supporting your request and would not object to it.

Article 1.2.4 of the Drainage Criteria Manual allows for exceptions under certain circumstances. Adequate justification appears to have been provided. However, the Manual does not specify who has to the authority to allow exceptions. It may be implied that only the legislative body, the Council, has that authority.

Therefore, this request for exception will be placed on the next Public Works Committee meeting, scheduled for December 13, 2005, at 12:30 p.m. With the Committee's concurrence, the item will next be taken to full Council for their consideration on December 19, 2005.



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OPPORTUNITY

EQUAL OPPORTUNITY EMPLOYER

I understand your need for a timely response and regret that I cannot accommodate your schedule any quicker. If there is anything else I can do please let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "Dirk Jablonski". The signature is written in a cursive style with a large initial "D".

Dirk Jablonski, P.E.  
Public Works Director

cc: Marcia Elkins, Growth Management Director  
Emily Fisher, Growth Management  
Dion Lowe, Engineering Services

November 9, 2005

Ms. Emily Fisher  
 Growth Management Department  
 City of Rapid City  
 300 Sixth Street  
 Rapid City, South Dakota 57701-2724



706 West Boulevard

Rapid City, SD 57701

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e-mail: [alliance@allianceae.com](mailto:alliance@allianceae.com)

Re: No. 05SR060 – 11-6-19 SDCL Review  
 Sanitary and Storm Sewer Improvements  
 South Valley Mobile Estates

Dear Ms. Fisher,

I am in receipt of your review comments and staff recommendations dated October 27 and November 10, 2005. In response I wish to address the issues regarding the above referenced project.

I have had several conversations with Steve Murphy and David Lamb, the managers/operators of the Murphy Irrigation Ditch. I also met with Steve Murphy at the proposed site of the storm sewer crossing. Both individuals indicated that they saw no reason why we could not cross under the irrigation ditch as long as we met several criteria for the reestablishment of the ditch during the installation of the storm sewer.

I feel we have addressed their concern and comments by reestablishing the ditch slopes and bottom with a compacted soil-bentonite liner, provide riprap and bank stabilization at the discharge point on Rapid Creek, and specifying erosion control measures. The easement for the storm sewer at this location provides that the owner of South Valley Mobile Estates (Donald Smith) repair or maintain the construction of the storm sewer. David Lamb indicated that they may want some form of maintenance agreement between the Murphy Ditch organization and South Valley Mobile Estates but he wasn't sure yet.

We have incorporated an erosion control plan in our current construction drawings by specifying reclamation work on the disturbed areas, erosion control blanket and riprap at Rapid Creek. All areas within the construction will be seeded, fertilized and mulched. Silt fencing will also be used as needed. The erosion measures will be maintained until vegetation has been reestablished.

We are providing for your review a drainage report and revised construction drawings. South Valley Mobile Estates is located in the FEMA designated 100 Year Flood Plain. A storm water detention pond has been tentatively located on the mobile home property for future development and we propose to design the detention pond and storm sewer system for the 25-Year storm. We request an exception to the City's Drainage Criteria Manual which typically requires that detention facilities be designed for a 100-Year storm. During a 100-Year storm the mobile home park will be inundated with storm flows and therefore sizing the storm sewer system for a 100-Year event would not be practical. Therefore we feel justified in designating the system for a small to moderate storm event.

We have submitted an application for a 404 Permit to the Corps of Engineers in Pierre. It has been reviewed and I understand that our proposed project will not impact the nation wide permit or NDPEs rules. I expect their letter anytime now and will forward a copy to you as soon as possible. Enclosed is a copy of the application.

Easements have been obtained for the proposed storm and sanitary sewer project along the entire length of the project and are shown on the revised drawings. Copies of the easements will be made available. The easements also indicate that the Rapid Valley Sanitary District will be assigned the authority to maintain the sanitary sewer once the construction project has been completed and accepted. I have talked to Jim Jester at the Sanitary District and he will be documenting my conversations with him and his arrangements for the maintenance and operation of the new sanitary sewer. A copy will be forwarded to your office.

The existing six inch AC water main on Orchard Lane has been located and is shown on the current construction drawings. The current drawings do show that the contractor will provide additional material when necessary to have at least four foot of cover over the sanitary sewer per Rapid City specifications. We have also required that the storm sewer be encased with flowable fill as it crosses over the existing sanitary sewer outfall line.

We have applied for a Flood Plain Development Permit and a permit to cross under Orchard Lane through County Planning and Engineering. Their approvals are expected very soon and will be forwarded to you. As required by County Engineering, we will be providing a storm sewer area inlet just north of Orchard Lane to pick up any minor localized storm runoff. Given the uncertainty of any future upgrades on Orchard Lane, it is my understanding that the County does not expect us to fortune tell what may or may not happen in this fully developed area.

I appreciate your timely review of this project and in the hope you would recommend that the Planning Commission approve the project at the November 10<sup>th</sup> meeting contingent on your final review of the submittal documents. Comments from the various review agencies are expected yet this week.

We would like to be able to get materials ordered and schedule construction without further delay if possible, at least for the sanitary sewer part of the project. Thank you for your understanding and cooperation.

Sincerely,

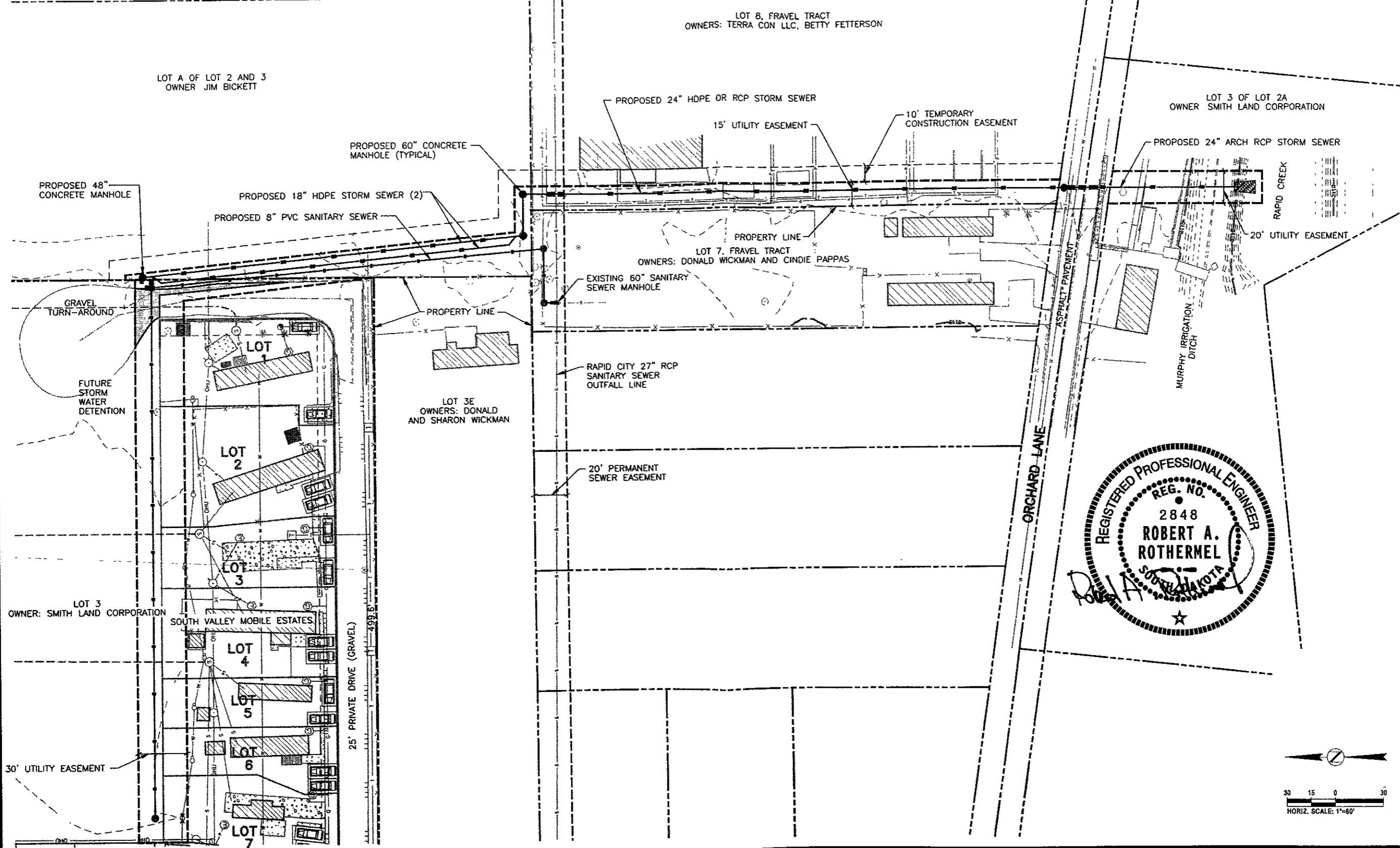
ALLIANCE OF ARCHITECTS AND ENGINEERS

  
Robert A. Rothermel, PE

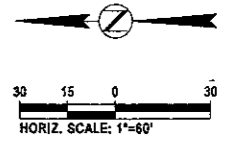
THE CONTRACTOR SHALL PROVIDE THE CITY OF RAPID CITY, ENGINEERING DEPARTMENT (394-5377) AND THE RAPID VALLEY SANITARY DISTRICT (393-1050) AT LEAST 24 HOURS NOTICE PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION ACTIVITIES FOR THE SANITARY AND STORM SEWER IMPROVEMENTS.



**SANITARY AND STORM SEWER IMPROVEMENTS**  
**SOUTH VALLEY MOBILE ESTATES**  
**RAPID CITY, SOUTH DAKOTA**



Scale:	AS NOTED
Designed By:	RAR
Drawn By:	RJD
Design Date:	11-09-2005
Print Date:	11-09-2005
AAE Project No.:	05-1162
File Name:	1162SIT01.DGN
Revisions:	



**SITE PLAN**

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