

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Highland Hills Addition to Rawlins, Rawlins, Wyoming

ARCHITECT OR ENGINEER: Robert Jack Smith and Associates Inc., 211 S. Happy Hollow Circle, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 75-103

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: August 13, 1975

ACTION: Construction not authorized pending receipt of compliance with under-mentioned items.

COMMENTS:

1. Submit detailed cross sectional drawings of typical water and sewer hook ups.
2. Water mains and sewer crossings—where water mains and sanitary sewers cross, the water mains shall be above the sewer with a minimum distance of 18 inches between the bottom of the water main and the crown of the sewer. Where this is not possible the sewer shall be constructed of materials and with joints that are equivalent to water mains standard.

FRH:lav  
August 20, 1975

cc: Phillip Hughes, District Sanitarian, P.O. Box 1153, Green River, Wyoming  
John Mac Pherson, 1st National Bank Building, Rawlins, Wyoming

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Foothills P.U.D. Water Distribution and Sewage Collection System,  
Campbell County, Gillette, Wyoming 127 home sites, single family units

ARCHITECT OR ENGINEER: Plains Engineering P.O. Box 117, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-104

REVIEWING ENGINEER: Roy E. Prior, Bill Garland, P.E.

DATE OF REVIEW: August 5, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

1. Water mains should be disinfected according to current AWWA specifications.
2. Water mains must be tested to 150% of working pressure.
3. Maximum joint infiltration on sewer lines allowed is 200 gals/inch pipe diameter/mile/day.

REP:lav  
August 6, 1975

cc: Malcolm Crawford, P.O. Box 973, Gillette, Wyoming

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Foothills P.U.D. Water Distribution and Sewage Collection System,  
Campbell County, Gillette, Wyoming 127 home sites, single family units

ARCHITECT OR ENGINEER: Plains Engineering P. O. Box 117, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-104R

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: September 4, 1975

ACTION: Construction Authorized.

COMMENTS:

The loops have already been constructed. This is an "as built" drawing.

REP:jk  
9/4/75

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Rawhide Village II, Campbell County, Gillette, WY  
P. K. Ely, Owner, P. O. Box 133, Gillette, WY 82716

ARCHITECT OR ENGINEER: Plains Engineering, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-105

REVIEWING ENGINEER: Roy E. Prior, Frank R. Harman, P.E.

DATE OF REVIEW: September 5, 1975

ACTION: Authorized for construction.

COMMENTS:

Project has already been constructed.  
Notice of violation was issued. Docket No. 76-75.

REP:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

October 23, 1975

PROJECT: 40 unit Motel Sewage System Barre Conlay, Owner  
East of Douglas, Converse County, WY

ARCHITECT OR ENGINEER: John Atkins Mannon & Associates, Inc.  
P.O. Box 963  
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-106

REVIEWING ENGINEER: Jake Strohman, Paul C. Schwieger, P.E. 

DATE OF REVIEW: 10/23/75

ACTION: Construction authorized

COMMENTS:

1) Send plans and specifications for water supply system.

cc: Malcom Crawford

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 21, 1975

PROJECT: Skyline Ranches Subdivision No. 2 (Water distribution)

ARCHITECT OR ENGINEER: Ken Wolz, P.E.  
P.O. Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-107

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger, P.E.

DATE OF REVIEW: 8/20/75

ACTION: Construction Authorized.

COMMENTS: Ensure that leach fields are not installed within 25 feet of  
water lines.

JS/mf

cc: Nix Anderson

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 21, 1975

PROJECT: Water Tower Acres Subdivision  
Mills, Wyoming

ARCHITECT OR ENGINEER: William G. Ladd  
Suite 304 Western Resources Bldg.  
Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-109

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger

DATE OF REVIEW: 8/20/75

ACTION: Construction Authorized

COMMENTS:

JS/mf

cc: Nix Anderson

Everett Alloway  
6820 W. Yellowstone Hwy.  
Casper, Wyoming



7-20-75

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sundog Addition, Water Supply and Distribution System, 31 lots,  
c/o William L. Gibbs, P. O. Box D, Gillette, WY 82716

ARCHITECT OR ENGINEER: VTN, Wyoming, 330 North Main, Sheridan, WY 82801  
Thomas L. Barker, Engineer

WATER QUALITY DIVISION REFERENCE NUMBER: 75-111

REVIEWING ENGINEER: Roy E. Prior, Frank R. Harman, P.E.

DATE OF REVIEW: September 4, 1975

ACTION: Construction not authorized.

COMMENTS:

1. Ten States Standards were used as a review criteria.
2. The following information is needed to evaluate these plans and specifications:
  - a. details on storage tanks;
  - b. details on pressure tanks;
  - c. details on pump;
  - d. details on well housing and piping;
  - e. typical drawings on fire hydrant placement;
  - f. typical drawings on valve placement including blocking;
  - g. typical drawings on well seal and sanitary protection for the well;
  - h. water line specifications, i.e., NSF seal of approval or AWWA standard;
  - i. backfill specifications;
  - j. disinfection procedures, i.e., current AWWA standard;
  - k. pressure tests, i.e., 1½ times working pressure;
  - l. depth lines will be buried;
  - m. information as to who owns the subdivision.
3. Public water supplies are required by law to have a certified operator.

REP:jk  
Enclosures

cc: Malcolm Crawford, District Sanitarian, Gillette  
William L. Gibbs, Box D, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sundog Addition, Water Supply and Distribution System, 31 Lots  
c/o William L. Gibbs, P.O. Box D, Gillette, Wyoming 82716

ARCHITECT OR ENGINEER: VTN, Wyoming, 330 N. Main, Sheridan, Wyoming 82801  
Thomas L. Barker, Engineer

WATER QUALITY DIVISION REFERENCE NUMBER: 75-111RR

REVIEWING ENGINEER: Roy E. Prior, Paul Schwieger, P.E. 

DATE OF REVIEW: October 22, 1975

ACTION: Authorized for Construction

COMMENTS:

A lock should be placed on the storage tank drain valve to insure operation by authorized personnel only.

REP:PS:lac  
October 22, 1975

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Green Acres Village, East of Cody  
Frank Yager, Owner, Box 147, Cody, Wyoming

ARCHITECT OR ENGINEER: Don Livingston, Engineering Associates, Cody, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-112

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger

DATE OF REVIEW: August 19, 1975

ACTION: See last paragraph.

COMMENTS:

1. Concrete pads of 4" thick and 12" minimum diameter on sewer and water risers.
2. Percolation rate must be 3 minutes per inch of percolation. The actual percolation rate to be furnished before actual construction.
3. Crossovers of sewer and water to meet specifications of handout.
4. Extend baffle on outlet down to 18 inches below outlet.
5. Backfill sand around sewer and water lines for bedding. Insure trenches are compacted to match density of existing trench walls.
6. Disinfect water lines per AWWA C601-68. Pressure test water lines to 1½ times operating pressure prior to burial.
7. Send chlorination equipment specifications and plans prior to construction of the facility.
8. Plans for spring water collection facility to be furnished prior to construction. Specifications and characteristics on pumps are required.
9. Specifications and plans for water storage tank.
10. Manholes over inlet and outlet of septic tank.
11. Sewage lines to have minimum slope as shown below:

Pipe Size	Slope(ft. per 100 ft.)
8 inch	.4
6 inch	.6
4 inch	1.0
12. Bacteriological sample analysis to be furnished.

In a meeting with Frank Yager on August 19, 1975, the above listed items were agreed to be adhered to. Under these conditions, Water Quality Division of the Department of Environmental Quality will allow construction of water and sewer lines and septic tank and leach field. Percolation rate will be furnished prior to construction of leach field. Items 7, 8 and 9 will be furnished for approval by Water Quality Division of the Department of Environmental Quality prior to construction of these facilities.

HJS:jk

cc: Bill George, District Sanitarian, Worland, WY  
Owner, Frank Yager, Cody, WY



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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Highland Park Addition Water and Sewer Extension  
Casper, Wyoming 82601

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter (Sewer) C.O. Anderson (Water)  
632 S. David, Casper, Wyoming 82601 Casper Board of  
Public Utilities

WATER QUALITY DIVISION REFERENCE NUMBER: 75-113  
136 W. 8th St.  
Casper, Wyo. 82601

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines to be installed tested and disinfected per "Casper Board of Public Utilities" water specifications.
- 2) All dead end water mains shall have a fire hydrant or flushing hydrant installed at the end.

JS/PS/mf

cc: Nix Anderson

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Valley Hills #2 Addition Water and Sewer Extensions  
Casper, Wyoming 82601

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter (Sewer) C.O. Andersen (Water)  
632 S. David, Casper, Wyoming 82601 Casper Board of  
Public Utilities

WATER QUALITY DIVISION REFERENCE NUMBER: 75-114  
136 W. 8th St.  
Casper, Wyoming 82601

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines to be installed, tested and disinfected per "Casper Board of Public Utilities" water specifications.
- 2) All dead end water mains shall have a fire hydrant or flushing hydrant installed at the end.

JS/PS/mf

cc: Nix Andersen

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Meadowlark Hills Sewer Extension and Water extension  
Casper, Wyoming

ARCHITECT OR ENGINEER: Stanley P. Smalley Empire Developers, Inc.  
800 So. Broadway, Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-115

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 27, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines to be installed, disinfected, and tested per "Casper Board of Public Utilities" specifications (current edition).
- 2) A temporary firehydrant or flushing hydrant shall be installed at the end of each water main.

JS/PS/mf

cc: Nix Andersen  
Casper Board of Public Utilities, 136 W. 8th Street, Casper, Wyo.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Cottonwood Court, Sewage Treatment System  
Riverton, Wyoming

ARCHITECT OR ENGINEER: John M. Childers  
Nelson, Haley, Patterson and Quirk, Inc., 625 East Madison  
Suite 5, P.O. Box 1520, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-116R

REVIEWING ENGINEER: <sup>DWR</sup> David W. Hill, William L. Garland, P.E. *wsj*

DATE OF REVIEW: March 5, 1976

ACTION: Not authorized for Construction

COMMENTS:

- 1) All plans and specifications submitted shall carry the seal or signature of the designing engineer, who is a registered engineer in the State of Wyoming.
- 2) Infiltration shall not exceed 200 gallons per inch of pipe diameter per mile per day.
- 3) The inlet baffle of the septic tank (i.e. - PVC "L") shall protrude to a depth of 40% of the liquid depth.
- 4) When a pipe "L" is used as the inlet baffle, a 1 inch vent hole will be provided at the top of the "L".
- 5) Parallel lines in the absorption field shall have their ends connected.
- 6) A check valve shall be placed on each discharge line from the submersible pumps.
- 7) A suitable shut off valve could be installed on the 4" line from the septic tank to the dosing tank. This would allow for easier maintenance of the float control. Recommendation only.
- 8) Due to the locality of the manhole, septic tank, and dosing tank to nearby housing, locked manhole covers are recommended. - Recommendation only.
- 9) The maintainer of the system must understand that proper maintenance of the septic tank is essential. Solids must not be allowed to flow to the absorption field and clog the soil. - Recommendation only.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Cottonwood Court, Sewage Treatment System  
Riverton, Wyoming

ARCHITECT OR ENGINEER: John M. Childers, Nelson, Haley, Patterson, and Quirk, Inc.  
625 East Madison, Suite 5, P.O. Box 1520, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-116RR

REVIEWING ENGINEER: David <sup>Duff</sup> W. Hill, William L. Garland, P.E. *wsg*

DATE OF REVIEW: March 29, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: **Town of Lovell, Ota Addition, Water and Sewer**

ARCHITECT OR ENGINEER: **Richard E. Myrick, P.E., P. O. Box 535, Powell, WY 82435**

WATER QUALITY DIVISION REFERENCE NUMBER: **75-117**

REVIEWING ENGINEER: **Jake Strohman, Paul C. Schwieger, P.E.**

DATE OF REVIEW: **October 8, 1975**

ACTION: **Construction authorized.**

COMMENTS:

1. **Send backfill specifications (addendum) for sewer lines.**

HJS:jk  
10/8/75

cc: **William George, District Sanitarian, Worland, WY 82401**

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 22, 1975

PROJECT: Green Acre Court (Owner: Mr. and Mrs. V. C. Johns  
Powell, Wyoming 557 North Hamilton Street  
Powell, Wyoming 82435

ARCHITECT OR ENGINEER: Richard E. Myrick, P.E.  
P.O. Box 535, Powell, Wyoming 82435

WATER QUALITY DIVISION REFERENCE NUMBER: 75-118

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 21, 1975

ACTION: Construction authorized (see mandatory compliance item)

COMMENTS:

- 1) I agree with your sewer hydraulics, but for design purposes a mannings "n" of .013 is required by state law. We see no reason from the profile that a slope of at least 0.40 feet per 100 ft. cannot be obtained.

JS/PS/mf

cc: Bill George  
Owner

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Updike Brothers, Inc. Trailer Park  
Converse County

Owner: Updike Brothers, Inc.  
P.O. Box 610  
Newcastle, Wyoming 82701

ARCHITECT OR ENGINEER: Nelson Engineering  
P.O. Box 1141  
Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-119

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: August 22, 1975  
(See)

ACTION: Notice of Violation for construction without a permit.

COMMENTS: The following items will have to be modified, furnished, or accomplished prior to approval of this facility:

1. Water lines to be disinfected per AWWA C601.68.
2. Water lines to be pressure tested to  $1\frac{1}{2}$  times operating pressure with no leakage. Lines that leak shall be repaired.
3. The cleanout at the west end of sewer line will have to be a manhole. Send detail and specifications of manhole to meet state standards.
4. What slope is sewer line installed at? Send profile of sewer system of manhole top and invert elevations.
5. Sewer risers to have a concrete apron 4 inches thick and 12 inches minimum diameter.
6. Does well have a sanitary seal? Send details.
7. Where does floor drain from well house terminate?
8. Water main line to have a flushing hydrant installed at the end or system shall be a complete loop with source. Send details.
9. Trench backfill requirements.
10. A conventional type leach field shall not be utilized when maximum ground water level is not greater than 4 feet below bottom of leach trench pipe. (See N.O.V. item 3C).

JS:lav  
August 22, 1975

cc: Malcolm Crawford, District Sanitarian, Gillette.  
Owner

DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE OFFICE BUILDING WEST  
CHEYENNE, WYOMING 82001

In the Matter of Notice of )  
Violation issued to )  
Updike Brothers, Inc. )  
P.O. Box 610, Newcastle, )  
Wyoming 82701 )

Docket No: 69-75

Notice of Violation

Notice Is Hereby Given:

1. That the water distribution and sewage collection and disposal facilities serving the Updike Brothers Yard and Trailer Park in Converse County located in NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , Sec. 17, T32N, R71W are in violation of Section 35-502.18 of the Wyoming Environmental Quality Act of 1973.

2. That this violations consists of construction of sewage collection and disposal and water supply systems without making application for and obtaining a permit to construct such facilities.

3. That to avoid further action by the Wyoming Department of Environmental Quality pursuant to W.S. 35-502.46 and.49, the following items will have to be adhered to:

a. Trailer park shall not operate until final approval by the Water Quality Division of Department of Environmental Quality.

b. Trailer park sewer and water systems shall be modified to obtain compliance with applicable standards and regulations before facility is operated.

c. An on site meeting shall be arranged within (30) thirty days by Updike Brothers, Inc. with Water Quality personnel and Updike Brothers, Inc., at which time Updike Brothers, Inc. will furnish and operate equipment necessary to determine ground water level in the immediate area of the leach field.

4. Any further correspondence and/or negotiations shall be directed to Jake Strohman, Environmental Engineer, Water Quality Division, Department of Environmental Quality. Telephone 307-777-7781.

Dated this 25th day of August 1975.

  
Robert E. Sundin  
Director  
Department of Environmental  
Quality

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

October 22, 1975

1. PROJECT: Updike Brothers, Inc. Trailer Park (6 units)      Owner: Updike Bros., Inc.  
Converse County      P.O. Box 610  
Newcastle, Wyoming 82701
2. ARCHITECT OR ENGINEER: Nelson Engineering  
P.O. Box 1141  
Jackson, Wyoming 83001
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-119R
4. REVIEWING ENGINEER: *A.E. Williamson*  
Jake Strohman, Arthur E. Williamson, P.E.
5. DATE OF REVIEW: October 22, 1975
6. ACTION: Construction is authorized (see compliance items)
7. COMMENTS:
  - 1) Manhole will have to be installed at the west end of the 6" sewer main.
  - 2) Water supply information to be furnished for approval when a suitable solution has been obtained.
  - 3) The leach field does not meet our minimum standards but the Division feels that there will not be any detrimental effects from the operation of this facility and we will therefore allow its operation. Should the leach field fail or have effluent surface, a new system shall immediately be proposed and installed.

cc: Malcolm Crawford  
Bob Coffman



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

September 4, 1975

PROJECT: Evans Mobile Home Park                      Owner: David A. Evans  
          Teton County

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER:            75-120

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION:

COMMENTS:            continued:

- 9) The following information is required on well to determine if water supply is acceptable. If well construction has not been completed, you may commence construction so that the following information can be furnished. Well location as shown on plans is acceptable. Well is to be approved by State Engineer and constructed per his office's "Regulations and Instructions", Part III, "Water Well Minimum Construction Standards."
- a) depth of well
  - b) yield of well
  - c) actual pump output in gpm
  - d) depth to which well is grouted
  - e) detail of sanitary seal on well casing
  - f) bacteriological sample analysis of water supply

JS/WLG/mf

cc: Phil Hughes

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Evans Mobile Home Park, Teton County

ARCHITECT OR ENGINEER: Frank J. Grimes, Nelson Engineering, P. O. Box 1141,  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 75-120R

REVIEWING ENGINEER: William Garland, P.E. *wag*

DATE OF REVIEW: October 9, 1975

ACTION: Authorized for construction.

COMMENTS:

Well construction must be approved by State Engineer per his office's  
"Regulation and Instructions", Part III, "Water Well Minimum Construction  
Standards".

HJS:jk  
10/10/75

cc: Phillip Hughes, District Sanitarian, Green River, WY  
State Engineer, Cheyenne, WY  
Robert Coffman, Environmental Surveillance and Control, Cheyenne, WY

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 22, 1975

PROJECT: Hilltop Trailer Park  
Converse County

ARCHITECT OR ENGINEER: James R. Graves, P.E.  
3100 East Sinclair Pl., Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-121

REVIEWING ENGINEER: Jake Strohmman, Paul Schweiger, P.E.

DATE OF REVIEW: August 21, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plans and specifications:

- 1) Tie ends of tile in drain field together.
- 2) A concrete apron 4 inches thick and 12 inches in diameter (min.) shall be installed at ground surface to protect sewer riser.
- 3) A manhole will be required at the end of sewer line on lot. 1. Ensure this manhole is not located under a trailer. A cleanout may be used at the end of the six inch sewer line on lot 10, provided that the length of this lateral does not exceed 150 feet. A sewer riser is not considered a cleanout. A manhole is required immediately preceding septic tank.
- 4) Manholes shall have a minimum diameter of 42 inches.
- 5) The end of each water line shall have a flushing hydrant or system shall be a complete loop with the source.
- 6) Plastic water lines shall have "NSF" approval seal.
- 7) Is the "thermaline" water user the sanitary hydrant put out by Woodford Manufacturing Co.? (i.e., not the stop and waste type)
- 8) Water lines to be disinfected per AWWA C601-68.
- 9) Water lines to be pressure tested to 1 1/2 times operating pressure prior to burial.
- 10) Well pit will have to have a drain to daylight or have a sump pump installed. Casing of well shall terminate a minimum of 12 inches above floor and shall be sealed with a sanitary well seal. What is the depth of the well?

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 22, 1975

PROJECT: Hilltop Trailer Park  
Converse County

ARCHITECT OR ENGINEER: James R. Graves, P.E.  
3100 East Sinclair Pl., Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-121

REVIEWING ENGINEER: Jake Strohman, Paul Schweiger, P.E.

DATE OF REVIEW: August 21, 1975

ACTION:

COMMENTS: Continued - Page 2.

- 11) By the specifications of proposed pump, actual output will be about 18 gallon per minute. Peak demand for 25 units is estimated at 65 gpm so 10 units would be somewhere above 26 gallon per minute. A pressure tank has only 20% of tank for storage which follows that this system can only meet peak demand for one minute. Pressure tanks may be used in small systems to meet momentary peak demands, but the pressure tank should be ten to fifteen times the capacity of the pump in gpm (i.e., pump output of 20 gpm should have a pressure tank of 200 to 300 gallons.)
- 12) Water storage facilities must be provided when the distribution system cannot meet peak demands. When the rate of water supply from a well is not equal to or greater than peak demand, storage facilities are required. In your case, a properly sized pressure tank could be used.

JS/PS/mf

cc: Malcolm Crawford

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Hilltop Trailer Park      Edith Sullivan  
          Converse County

ARCHITECT OR ENGINEER: James R. Graves, P.E., 3100 East Sinclair PL., Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-121R

REVIEWING ENGINEER: Jake Strohmman, Paul Schwieger, P.E. 

DATE OF REVIEW: September 10, 1975

ACTION: Construction Authorized

COMMENTS:

Leach field is to be constructed per Standards of Leach Field Construction of the enclosed "Minimum Standards for Private Sewage Disposal Systems" (copy enclosed).

JS:lav  
September 12, 1975

Enclosure

cc: Malcolm Crawford, District Sanitarian, P.O. Box 973, Gillette, Wyoming  
      Bob Coffman, Environmental Surveillance and Control, Cheyenne, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Brooks Lake Lodge, Box 333, Dubois, WY

ARCHITECT OR ENGINEER: G. W. Deines, 136 S. Wolcott, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-122

REVIEWING ENGINEER: Jake Strohman, W. L. Garland, P.E.

DATE OF REVIEW: September 2, 1975

ACTION: Construction is not authorized.

COMMENTS:

The following items will have to be incorporated into the plans and specifications:

1. The plans and specifications must be signed by the designing engineer licensed to practice in the State of Wyoming.
2. Provide specifications on materials for sewer and water lines. Also, a standard specification for inflow-infiltration of sewer line. Give specifications for trench backfill. Water and sewer line crossover detail and specifications are required.
3. Inlet of sewage treatment primary pond shall have a concrete splash pad for inlet protection. A flow and pond level control structure must be incorporated into design between primary and secondary cells.
4. Sewer line must be 8 inch minimum diameter and manholes provided at the end of all lines, change in direction or grade with 400 foot maximum distance between manholes. Cleanouts are not acceptable. Details of manholes must be included in the plans.
5. The design capacity of the facility should be increased to 100 gal/capita/day due to the availability of food services, laundry, etc. This need not increase pond sizes depending on necessary degree of treatment for proposed disposal methods (land application).
6. Plans and specifications are required for modification or installation of all public water supplies including source development. The plans should include type of chlorinator if utilized and pertinent data concerning spring yield, quality, etc.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Brooks Lake Lodge, Box 333, Dubois, WY

ARCHITECT OR ENGINEER: G. W. Deines, 136 S. Wolcott, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-122

REVIEWING ENGINEER: Jake Strohman, W. L. Garland, P.E.

DATE OF REVIEW: September 2, 1975

ACTION: Construction is not authorized.

COMMENTS: (continued)

7. Plan and profile sheets are required including location of existing and proposed facilities with slope, size of pipe and manhole locations.
8. Land application of waste effluent is a feasible method of waste disposal, however, a determination as to compatibility of design is not possible with information provided. A complete detailed design is necessary including such items as amount of evapotranspiration, annual precipitation, runoff controls, etc. in order to evaluate and/or approve such a system.

WLG:jk  
9/9/75

cc: Mr. John W. Mumma, Forest Supervisor, 2550 Beartooth Drive, Cody  
Mr. Dale Harthon, Forest Service, Dubois

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Brooks Lake Lodge, Dubois, Wyoming  
Wastewater Treatment Facility

ARCHITECT OR ENGINEER: Russell Dowley  
Western Engineer's and Architects, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-122 R

REVIEWING ENGINEER: William L. Garland, P.E. *wlg*

DATE OF REVIEW: September 23, 1975

ACTION: Authorized to Construct

COMMENTS:

Authorization is contingent upon compliance with the following:

1. Interior slopes on all three cells be changed to 2:1 slopes.
2. Erosion control protection be provided in all three cells.

WLG:lav  
September 23, 1975

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Caribou Resort Lodge, Water and Sewer Plans  
c/o Ron Dube, 150 E. Foote St., Buffalo, WY 82834

ARCHITECT OR ENGINEER: Plains Engineering, P. O. Box 432, Buffalo, WY 82834  
Dan Epperson, Engineer

WATER QUALITY DIVISION REFERENCE NUMBER: 75-123

REVIEWING ENGINEER: Roy E. Prior, Frank R. Harman, P.E.

DATE OF REVIEW: September 4, 1975

ACTION: Construction Not authorized.

COMMENTS:

1. Ten State Standards used as a review criteria.
2. All materials used in the water supplies should have NSF seal of approval.
3. See Ten State Standards for:
  - a. location of water and sewer lines;
  - b. crossing of sewer lines;
  - c. sizes of sewer lines;
  - d. when cleanouts can be used;
  - e. alignment;
  - f. joints and infiltration;
  - g. design basis;
  - h. discharge structure.
4. Details of pressure tank, chlorinator, building containing aforementioned (i.e., protection against freezing).
5. Production capabilities of springs, i.e., minimum and maximum expected.
6. Plans and specifications require seal or signature of <sup>registered</sup> regional Engineer.
7. Two sets of plans and specifications are needed.

REP:jk  
9/5/75

cc: Malcolm Crawford, District Sanitarian, Gillette



Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

August 22, 1975

PROJECT: Water Supply Pump Station, Cedar Ridge Subdivision  
Thermopolis, Wyoming

ARCHITECT OR ENGINEER: Jerald B. Crews, Tudor Engineering Co.  
Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-124

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: August 22, 1975

ACTION: Construction not authorized pending compliance with the comments set forth below.

COMMENTS:

- 1) The floor drain shall not discharge to a sewer.
- 2) The floor drainage shall be discharged to the surface of the ground either through a pipe which daylights or on a floor level door which opens outward.
- 3) Provide proper protection at the point where the "4 inch house lateral" crosses the 10 inch AC pipe leaving the station. This protection shall be in accordance with part "8.3.4 crossing" of the Ten States Standards, an excerpt of which is enclosed.
- 4) The low pressure cutout switch shall be set so that it will shut the booster pump off at a suction manifold pressure of not less than 20 pounds per square inch.

RHP/mf

Enclosure

cc: Bill George  
District Sanitarian  
Worland, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water Supply Pump Station, Cedar Ridge Subdivision, Thermopolis, Wyoming

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E., Tudor Engineering Co., Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-124R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

*Robert H. Pinther*

DATE OF REVIEW: 10-10-75

ACTION: Construction not authorized pending compliance with comments set forth below.

COMMENTS:

1. To avoid freezing of the french drain serving the pump station floor drain, lay the perforated drain tile at least 30 inches deep.
2. Show and/or specify details of proper protection to be provided at the point where the "4 inch house lateral" crosses the 10 inch AC pipe leaving the station. As previously indicated, this protection shall be in accordance with part "8.3.4 crossings" of the Ten State Standards, an excerpt of which was enclosed with our review of August 22, 1975. The following details shall be included:
  - a. The vertical separation, as required, of water and sewer lines at crossing.
  - b. Centering of a length of water pipe at the crossing so that the joints will be equidistant as far as possible from the sewer.
  - c. Use of the class 200 PVC for the sewer line for a distance of at least 10 feet from the 10 inch AC water line on each side of the crossing.
3. Provide a cleanout in the "4 inch house lateral" at each change in direction of more than  $22\frac{1}{2}$  degrees.
4. The low pressure cut out switch shall be set so that it will shut the booster pump off at a suction manifold pressure of not less than 20 pounds per square inch.

RHP:lac  
10-16-75

cc: Bill George, District Sanitarian, Worland, Wyoming  
Jake Strohman, Area Engineer, Water Quality Division

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

November 19, 1975

1. PROJECT: Water Supply Pump Station, Cedar Ridge Subdivision,  
Thermopolis, Wyoming
2. ARCHITECT OR ENGINEER: Jerald B. Crews, Tudor Engineering Company  
516 East Main, Riverton, Wyoming 82501
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-124RR
4. REVIEWING ENGINEER: Robert H. Pinther, P.E. *Robert H. Pinther*
5. DATE OF REVIEW: 11/18/75
6. ACTION: Construction Authorized.
7. COMMENTS:
  1. This review covers specifications and three plan sheets received at this office on October 23, 1975, and identified as follows:
    - (1) Pumping Station - 1, Dr No. 587-75-001, Sheet 9 dated 28 August, 1975, and 23 September, 1975.
    - (2) Pumping Station - 2, Dr No. 587-75-001, Sheet 10 dated 28 August, 1975.
    - (3) Plan & Profile (Water & Sewer), Valley View Drive & Mountain View Drive - 1, Dr No. 587-75-001, Sheet 3, Certified on 6/6/75
    - (4) Specifications for Pumping Plant, Cedar Ridge Subdivision, Thermopolis, Wyoming.
  2. By letter of 10-22-75 the engineer stated that "The low pressure cutout switch (in the suction manifold of the booster pump) will be set to shut the pump down at 20 psi ( $\frac{1}{2}$  normal operating pressure).

RHP/jb

cc: Bill George, District Sanitarian, Worland, Wyoming  
Jake Strohmman, Area Engineer, Water Quality Division, Cheyenne, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Feedlot Drainage Ditch and Holding Pond for Wastewater Disposal for  
American Cattle Co., Torrington, WY

ARCHITECT OR ENGINEER: Donald Horton, P.E., K & H Engineering, P. O. Box 147,  
Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 75-125

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: September 4, 1975

ACTION: Authorized for Construction.

COMMENTS:

FRH:jk

cc: Harold Anderson, Goshen County Sanitarian, Torrington, WY 82240

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Rancheater, Sewer and Water Improvements, Rancheater Mobile Home Park, Second Addition, Sheridan County

ARCHITECT OR ENGINEER: W.J. Pilch and Associates, Box 6498, Sheridan, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-126

REVIEWING ENGINEER: Roy E. Prior, Bill Garland, P.E.

DATE OF REVIEW: September 15, 1975

ACTION: Construction not authorized.

COMMENTS:

1. Ten State Standards were used as a review criteria.
2. The following information is needed to evaluate these plans and specifications:
  - a. Disinfection procedures, i.e., current AWWA standard;
  - b. Backfill specifications;
  - c. Typical drawings on fire hydrant placement;
  - d. Typical drawings on valve placement including blocking;
  - e. Water line specifications, i.e., NSF seal of approval or AWWA standard;
  - f. Pressure tests of water lines; i.e. 1½ times working pressure;
  - g. Details on how the lift station will be hooked up;
  - h. Typical drawing on manholes;
  - i. Specifications on alignment of sewers and allowable infiltration;
  - j. Specifications on separation of lines and crossing of lines;
  - k. Dead-end mains need fire hydrant or flushing hydrant;
  - l. Show where existing lines terminate and new lines begin.

REP:jk  
9/15/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming

*Work*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

November 17, 1975

1. PROJECT: Town of Ranchester, Sewer and Water Improvements  
Ranchester Mobile Home Park, Second Addition, Sheridan County, Wyoming
2. ARCHITECT OR ENGINEER: W. J. Pilch & Associates  
P. O. Box 6498, Sheridan, Wyoming 82801
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-126RR
4. REVIEWING ENGINEER: Roy E. Prior Frank Harmon, P.E. *Frank R. Harmon*
5. DATE OF REVIEW: November 14, 1975
6. ACTION: Authorized for Construction
7. COMMENTS:

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

September 3, 1975

PROJECT: Glenrock Sewerline River Crossing (temporary while new bridge is constructed)  
Glenrock, Wyoming

ARCHITECT OR ENGINEER: C. K. Wolz  
Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-127

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: September 3, 1975

ACTION: Construction authorized

COMMENTS:

- 1) Some type of concrete anchor abutment should be utilized on each end of the crossing and possibly anchors in the river since this crossing is shallow and may be subject to river channeling and exposing sections of the line.

JS/PS/mf

cc: Malcolm Crawford, District Sanitarian



E-11

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Dump Station, Curt Gowdy State Park, Laramie County

ARCHITECT OR ENGINEER: Bill Yannaccone, P.E., Wyoming Recreation Commission,  
605 East 25th Street, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 75-129

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: September 4, 1975

ACTION: Authorized for Construction.

COMMENTS:

FRH:jk

cc: Don Pack, Director, Environmental Surveillance, City County Health, Cheyenne

book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

November 20, 1975

1. PROJECT: Red Butte Village Addition to Existing Water System, Casper, Wyoming
2. ARCHITECT OR ENGINEER: C. K. Wolz & Associates,  
P. O. Box 322, Casper, Wyoming 82601
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-130R
4. REVIEWING ENGINEER: Robert H. Pinther, P.E. *Robert H. Pinther*
5. DATE OF REVIEW: 11/19/75
6. ACTION: Construction not authorized pending compliance with the comments set forth below.
7. COMMENTS:
  1. Provide a water tight concrete grout seal at least 6 inches thick around the well curbing. The grout shall extend from a point at least 6 inches above the pump-house floor level to a point at least 10 feet below the surface of the ground. (See Bored Well, fig 702 enclosed.)
  2. The concrete well cap shall extend downward a distance of at least 2 inches around the outside edges of the well curbing (see figure 702).
  3. Submit a detail of the well pump setting with pipe sleeve cast in the concrete well cover. The pipe sleeve shall extend at least one inch up into the pump base if a vertical turbine pump is used and the pump base shall be grouted into the well cover. (See enclosed sketch, figure 702, A.)
  4. Indicate the type and capacity of each pump.
  5. Make provision for the future installation of a chlorinator upstream from the storage tank.
  6. Provide two systems of reservoir piping with one system for delivery of water to the reservoir and another to discharge water from the reservoir. The inlet and outlet pipes in the reservoir shall be located as far apart as possible for maximum chlorine contact time.
  7. Provide for a chlorine contact time of at least one hour. It may be necessary to provide baffles in the reservoir or take other steps to assure the necessary chlorine contact time.
  8. Specify quality of concrete and methods of construction to provide a stable, durable and permanently water tight reservoir.
  9. The reservoir manhole shall be constructed of water tight concrete poured integrally with the tank. It shall extend at least 12 inches above the pumphouse floor and be provided with a downward overlapping cover and locking device (see figure 1206, enclosed).

D.E.Q.  
Review of Plans and Specifications  
Ref. No. 75-130R  
November 19, 1975

10. Submit a detail of the storage tank probe where it enters the one inch collar showing a water tight seal at that point.
11. What is the reason for second "1" Collar Cast in Conc.?"
12. Provide a 4 inch floor drain or sump in the storage tank for draining and cleaning purposes.
13. Provide an overflow pipe for the storage tank. The end of the overflow pipe shall terminate high enough above ground level to prevent the entrance of surface water. The end shall face downward with the end protected by a corrosion resistant 16 mesh or finer screen.
14. All portions of the pump suction piping which are buried less than 10 feet deep shall be double walled and the outer wall shall be sealed to the inner wall in a water tight manner at a point above ground level and after the pipe enters the storage tank.
15. The pumphouse floor shall be at least 6 inches above ground level.
16. The ground surface shall slope away from the pumphouse for a distance of at least 50 feet in all directions.
17. Submit a detail of the pumphouse floor drain pipe and method of disposal of waste water. It shall be constructed of water tight cast iron pipe with water tight joints to a distance of at least ten (10) feet from the well. A gravel pocket or french drain may be used for disposal. No connection shall be made to a sewer.

RHP/jb

cc: Mr. Dean St. Clair, 5018 Alcova Rte., Box 21, Casper, Wyoming  
Nix Anderson, Casper-Natrona County Health Dept., 241 So. Conwell, Casper, Wyo.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Red Butte Village Addition to Existing Water System, Casper, Wyoming

ARCHITECT OR ENGINEER: C.K. Woltz and Associates, P.O. Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-130RR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: February 27, 1976

ACTION: Construction not authorized pending compliance with comments Numbers 1,2,4,5,7,8,11,13,18 and 19 set forth below.

COMMENTS:

1. Specify and show on the plan that the concrete seal around the well will be water-tight, at least 6 inches thick for its entire height, and will extend at least 6 inches above the pumphouse floor.
2. The well cap as specified appears satisfactory except it will have to have a greater diameter to accommodate a 6-inch concrete grout outside the present curbing.
3. Well pump setting detail on sheet 1 of 1 appears to be satisfactory.
4. Submit evidence that the well and pump specified will meet the following requirements:
  - a. The well will yield at least 200 gallons per minute on a continuing basis.
  - b. Pump bearings are water lubricated.
  - c. Pump base is recessed at least one inch to receive the 8 inch O.D. pipe sleeve specified,

Note: As we recall the well curbing in place is less than the 27 inch pipe shown on the drawings. However, it appears that even a 27 inch curbing may not accommodate 2 pumps (one present and one future) as shown on the drawings.

5. Provide a pump suction pipe connected to the reservoir to supply water to the injection pump for operation of the future chlorinator.

Note: A separate chlorination building (or attached building) should be provided in the future.

Red Butte Village Addition to Existing Water System, Casper, Wyoming  
75-130RR

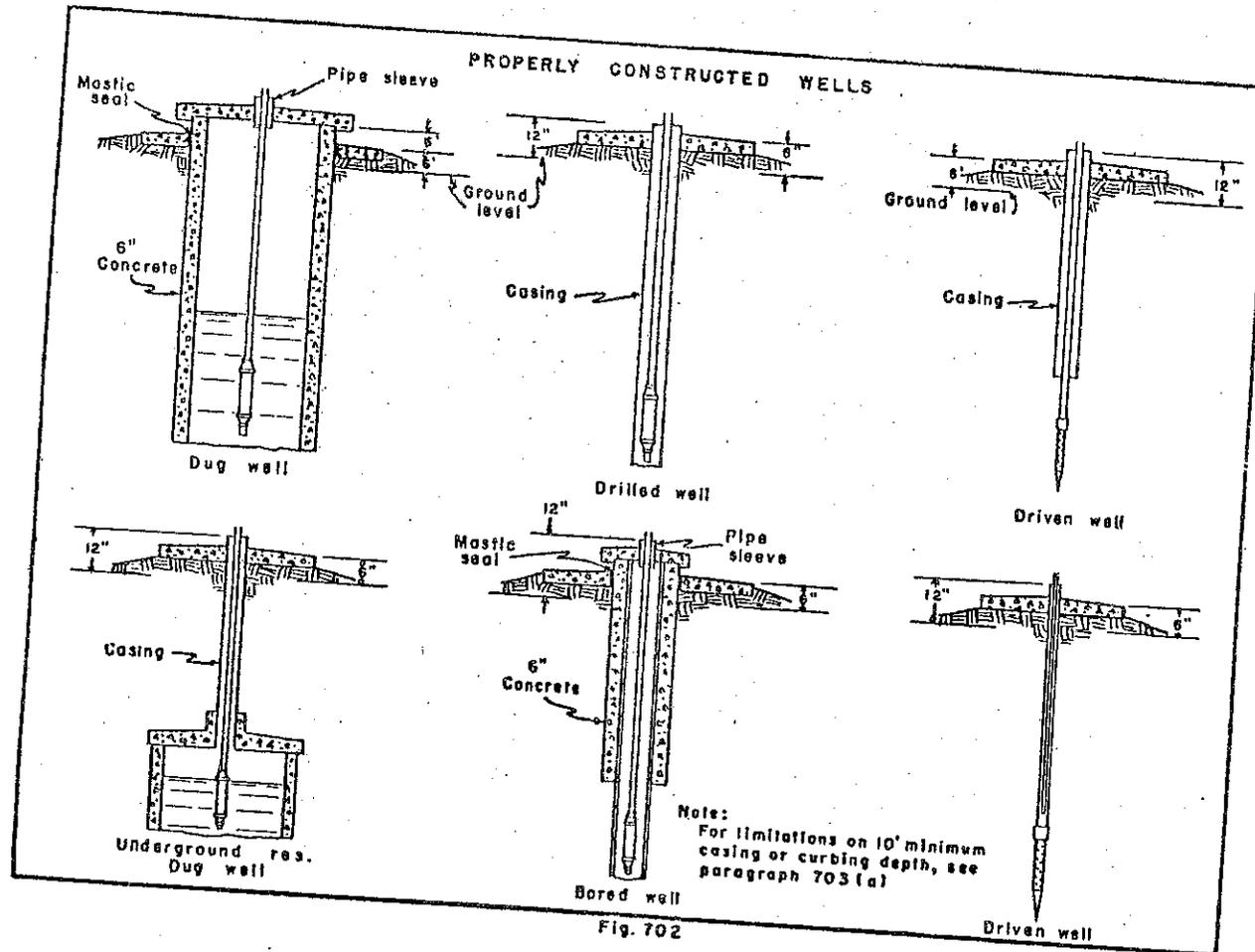
6. The two systems of reservoir piping shown on the drawings appear to be satisfactory.
7. Provide a chlorine contact time of at least one hour,

Note: The reservoir capacity shall be equal to, or greater than, the combined hourly pumping capacity of the two line pumps. The reservoir capacity appears to be 8600 gallons at the 8 foot depth of the overflow pipe.

8. Specify method of concrete construction to provide a stable, durable and permanently water tight reservoir.
9. The configuration of the reservoir manhole cover appears to be satisfactory.
10. The design of the storage probe seal where it enters the reservoir appears to be satisfactory.
11. It now appears that a collar cast in the reservoir cover near the well discharge to the reservoir could be used to accommodate the suction pipe for the chlorinator injection pump.
12. The sump provided in the reservoir appears to be satisfactory.
13. To protect against backup into the reservoir of water from the draw it is recommended that the inlet to the reservoir overflow be a section of vertical pipe placed as high as possible. This will, also, allow utilization of maximum reservoir capacity. The discharge end of the overflow pipe should face downward and, also, be protected by a substantial 1/8" mesh screen.
14. All buried pump suction piping has been eliminated.
15. The pumphouse floor has been indicated on the plan to be located 6 inches above ground level as required.
16. The ground level has been indicated on the plan as sloping away from the pumphouse for 50 feet in all directions as required.
17. A 4" PVC floor drain discharging to the draw has been added to the plan.
18. For purposes of removal and maintenance of the well pumps an adequately sized roof hatch should be provided over the well. A 4' x 4' hatch is recommended.
19. The pumphouse should be heated and properly insulated.

cc: Mr. Dean St. Clair, 5018 Alcova Rt., Box 21, Casper, Wyoming  
Nix Anderson, Casper-Natrona County Health Department, 241 South Conwell,  
Casper, Wyoming 82601

Enclosure for:  
 Red Butte Village Plan review  
 of 11/19/75  
 Environmental Engineering Ref. No. 75-130R



Enclosure for:  
Red Butte Village Plan review  
of 11/19/75  
Environmental Engineering Ref. No. 75-130R

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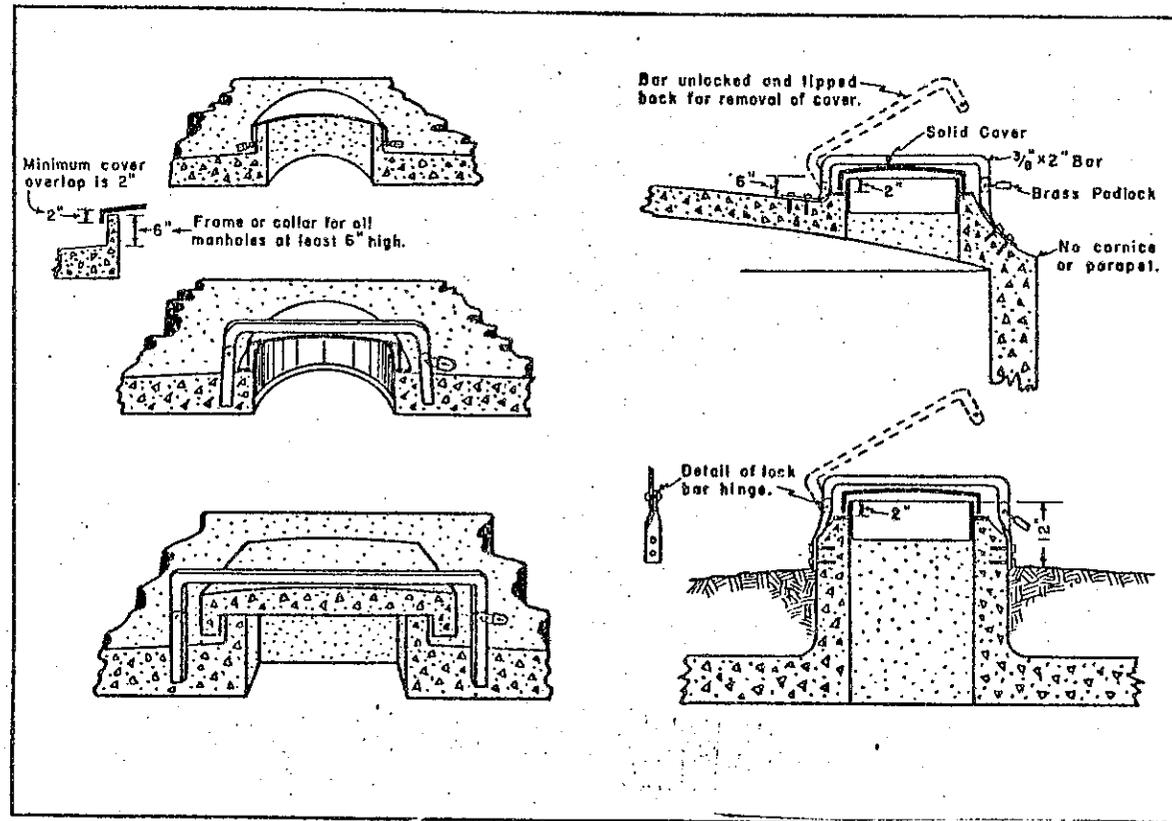


FIG. 1206.

Types of manhole covers and locking devices.

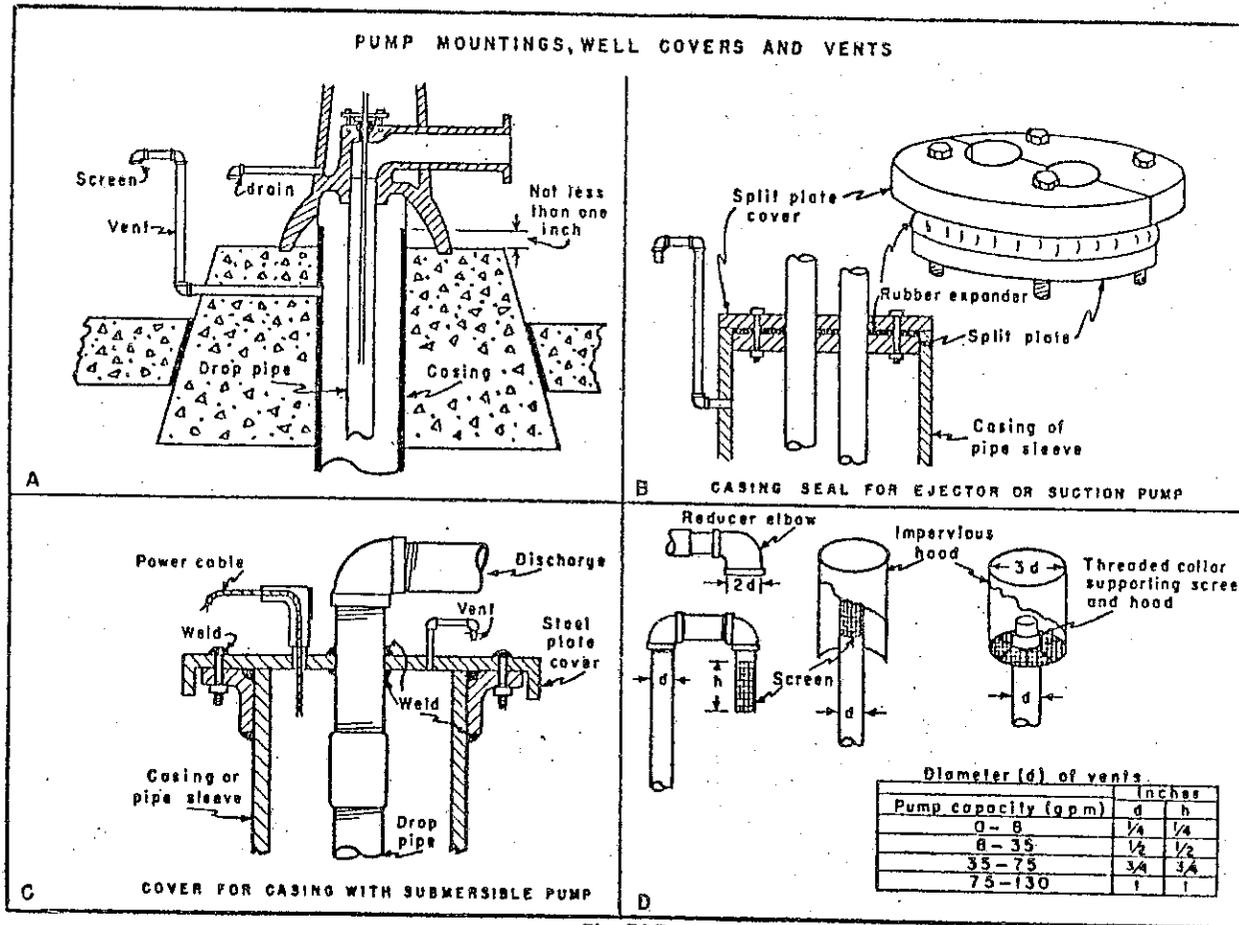


Fig. 707

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Red Butte Village Addition to Existing Water System, Casper, Wyoming

ARCHITECT OR ENGINEER: C.K. Wolz and Associates, P.O. Box 322, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-13ORRR

REVIEWING ENGINEER: Robert H. Pinther, P.E. *Robert H. Pinther*

DATE OF REVIEW: May 5, 1976

ACTION: Construction Authorized with Comments

COMMENTS:

The above action is based on review of revised plans received on April 12, 1976 and is contingent upon compliance with the comments set forth below. All of these items were discussed with the engineer, Mr. Wolz, during our telephone conversation on April 29, 1976.

1. In order to avoid possible backsiphonage into the potable water system from the water cooling system of the Hydro/constant fluid drive chamber the following provision will be made:
  - a. The used cooling water will discharge to waste above grade and at a point which is at least 6 inches above the spill line of the receiving vessel or pumphouse floor.
  - b. Vacuum breaker(s) will be installed above grade in all cooling water line upstream from each fluid drive chamber and down-stream from any flow control valves in the cooling water lines.
2. The following changes will be made in the reservoir overflow and also in the reservoir, as necessary:
  - a. The discharge end of the overflow pipe will face downward and will be protected by a substantial 1/8 inch mesh screen.
  - b. The check valve in the overflow pipe will be eliminated.
  - c. If the reservoir is subject to flooding (from the ravine), the top of the reservoir shall be raised to a point at least two feet above the highest known water mark and earth fill provided to the top of the reservoir and carried where practical, horizontally to a point at least 50 feet in all directions from the reservoir.

Note: This is the only method which can be depended upon to prevent flooding of the reservoir.

PROJECT: Red Butte Village Addition to Existing Water System, Casper, Wyoming

REFERENCE NUMBER: 75-130RRR

3. The pumphouse will be heated and adequately insulated.
4. To prevent possible flooding from within the pumphouse the door will be hung to open outward.

cc: Red Butte Village Improvement Association, 5018 Alcova Rt., Box 15,  
Casper, Wyoming 82601  
Nix Anderson, Casper-Natrona County Health Department, 241 South  
Conwell, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

September 9, 1975

PROJECT: Torrington Livestock Commission - Solid Waste Settling Tanks and  
Torrington, Wyoming Sanitary Sewer Tie In

ARCHITECT OR ENGINEER: Donald R. Harper, P.E. K & H Engineering  
P.O. Box 147, Torrington, Wyoming 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 75-131

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: September 8, 1975

ACTION: Authorized for construction

COMMENTS:

FRH/mf

cc: Harold Anderson, Goshen County Sanitarian,  
Torrington, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Evergreen Park Subdivision Water and Sewer,  
Brooks Water & Sewer District, Natrona County

ARCHITECT OR ENGINEER: B.H. Rottinghaus, P.E., Howard Needles Tammen & Bergendorf,  
P. O. Box 3101, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-132R

REVIEWING ENGINEER: Jake Strohman, Paul C. Schwieger, P.E. *JCS*

DATE OF REVIEW: October 8, 1975

ACTION: Construction authorized (see compliance items).

COMMENTS:

1. 4" cleanout shall be changed to 6" cleanout.
2. Letter of verifications from Brooks Water and Sewer District for water and sewer is required.

HJS:jk  
10/10/75

cc: Nix Anderson, Casper-Natrona Co. Health Dept., Casper, WY



Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Collins Heights, Campbell County, Water Supply for an existing subdivision and a proposed subdivision, C.E. Collins, 99 Garner Lake Rt., Gillette, WY

ARCHITECT OR ENGINEER: Plains Engineering, Gillette, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-133

REVIEWING ENGINEER: *WEG* Roy E. Prior, William L. Garland, P.E. *WEG*

DATE OF REVIEW: September 10, 1975

ACTION: Authorized for construction.

COMMENTS:

Consideration should be given to the addition of chlorination to the system. We recommend that all public water supplies be chlorinated.

REP:jk

cc: Department of Planning and Development, Gillette, WY

9/18/75 cc: Malcolm Crawford, District Sanitarian, Gillette, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Collins Heights Subdivision, First Extension, Water Distribution System,  
Gillette, Campbell County. Owner: C.E. Collins, 99 Garner Hale Rt.,  
Gillette, WY 82716

ARCHITECT OR ENGINEER: Plains Engineering, R. J. Timm, P.E.  
P. O. Box 117  
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-134

REVIEWING ENGINEER: <sup>RS</sup> Roy E. Prior, Arthur E. Williamson, M.S., P.E.  
*A. E. Williamson*

DATE OF REVIEW: September 17, 1975

ACTION: Construction authorized (see comments).

COMMENTS:

1. Curb stop and drain not allowed, use a curb stop only.
2. Pressure testing to  $1\frac{1}{2}$  times working pressure.

REP:jk

9/18/75 - cc: Malcolm Crawford, District Sanitarian, Gillette, WY  
Department of Planning and Development, City of Gillette, WY

2005

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Alcova Lakeview Estates Water Supply, Natrona County, WY  
Owner: W.R. and Keith V. Asbell, Casper, WY

ARCHITECT OR ENGINEER: R. L. Streeter, II, P.E., Sigma Engineering, Box 2354,  
Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-135

REVIEWING ENGINEER: Jake Strohm, Paul Schwieger, P.E. 

DATE OF REVIEW: September 11, 1975

ACTION: Construction is authorized (see compliance items).

COMMENTS:

1. Install a sump pump in well pit.
2. Out take pipe from storage tank should protrude above floor of tank.
3. Forward chemical and bacteriological analysis of well water.

HJS:jk  
9/12/75

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water Supply & Distribution System, Warm Springs, Inc., Dubois, Wy 82513

ARCHITECT OR ENGINEER: Jim Groves, NHPQ, 625 East Madison, Riverton, Wy 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-137RR

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: February 10, 1976

ACTION: Construction is not authorized.

COMMENTS: The following items must be received in this office prior to approval of this project.

1. Normally, we would require a minimum of 6" dia. pipe used throughout entire project. Due to the nature of project, we will allow a 4" diameter pipe be used, however, in no case shall the main be smaller than 4" diameter. Revised plans sheets must be submitted showing size change.
2. Revised drawing must be submitted showing looped ends and distribution system or inclusion of hydrant, blowoff or flushing valves at dead ends.
3. A revised detail is required showing necessary appurtenances for a bottom drain in storage tank.
4. Revised drawing must be submitted showing area to be fenced and specification for type and installation
5. A specification for disinfection of storage tank must be provided.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water Supply & Distribution System  
Warm Springs, Inc.  
Dubois, Wyoming 82513

ARCHITECT OR ENGINEER: Jim Gores, Nelson, Haley, Patterson, & Quirk, Inc.  
625 East Madison, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-137R

REVIEWING ENGINEER: William L. Garland, P.E. *wlg*

DATE OF REVIEW: January 20, 1976

ACTION: Not Authorized for Construction (See Comments)

COMMENTS:

1. In order to effectively evaluate the adequacy of the source & distribution system being developed, data must be provided as to population being served and type of residency. The application for appropriation of water indicates 81 points of use and an additional use availability for fire protection. Please clarify.
2. Minimum size pipe allowed will be 6" in diameter unless a smaller size can be justified in writing with designer's computations.
3. A statement must be included verifying that a minimum of 20 psi will be maintained at all points of use.
4. All ends of distribution lines should be looped with the system or provided with fire hydrant, blowoff or flushing hydrant.
5. The required piping & appertances must be incorporated into storage tank design to facilitate cleaning and maintenance of the storage tank.
6. Access to the storage tank shall be fitted with a watertight cover which overlaps the framed opening & extends two inches down around the frame. It must be hinged on one side.
7. All pipes running through the sidewalls of the storage tank shall be connected to standard castings poured in place with flanges imbedded in the concrete.
8. Access to hypochlorinators must provide in terms of ladder, etc.
9. Require fencing around storage tank & spring box. Also, locks shall be provided on access manholes to above, in order to discourage vandalism and/or unwanted intruders.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water Supply & Distribution System  
Warm Springs, Inc.  
Dubois, Wyoming 82513

ARCHITECT OR ENGINEER: Jim Gores, Nelson, Haley, Patterson & Quirk, Inc.  
625 East Madison, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-137R

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION:

COMMENTS:

10. Disinfection of water storage tank shall be accomplished in accordance with AWWA Standard D102.

11. An operator certified in the State of Wyoming is required on all water supplies serving ten or more service connections.

12. Recommend that an operation & maintenance manual be prepared in conjunction with facility design.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water System, Upper Warm Springs

ARCHITECT OR ENGINEER: Jim Gores, NHPQ  
625 East Madison, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-137RRR

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: March 22, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Mr. Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

October 27, 1975

1. PROJECT: Septic System , Church & Dwight, Green river, Wyoming
2. ARCHITECT OR ENGINEER: Wayne Johnson, P.E.  
Johnson, Fermelia & Crank, Inc.  
Rock Springs, Wyoming
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-139R
4. REVIEWING ENGINEER: William L. Garland *wlg*
5. DATE OF REVIEW: October 27, 1975
6. ACTION: Authorized for Construction
7. COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Parrish Oil Tools Trailer Park, P.O. Box 2028, Location: SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 4  
Rock Springs, Wyoming T19N, R105W  
(9 units plus house) Attention: Bernard B. Larsen  
ARCHITECT OR ENGINEER: None listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-138

REVIEWING ENGINEER: Jake Strohman, W.L. Garland, P.E. *WLG*

DATE OF REVIEW: September 3, 1975

ACTION: Construction is not authorized

COMMENTS: The following items will have to be incorporated into plans and specifications:

- 1) Engineer's seal or signature on plans and specifications who is licensed to practice in the State of Wyoming.
- 2) Water and sewer line specifications.
- 3) Trench backfill specifications.
- 4) Profile of sewer system. What size is sewer and water lines?
- 5) Detail and manhole specifications. Manhole to be installed immediately preceding septic tank and 400 ft maximum spacing.
- 6) Percolation tests for drain field size determination.
- 7) Drain field is to be located 100 ft minimum horizontal separation from well.
- 8) Give details and specifications of drain fields.
- 9) Details and specifications of sewer and water risers.
- 10) Show pump house plans including well piping, well seal, characteristics, actual well output in gpm, etc.
- 11) Water main should be a complete loop with source or have flushing hydrant (send detail) installed at the end of main.
- 12) State water line and water storage disinfection procedure. State pressure test procedure prior to water line burial.

JS:lav September 12, 1975

cc: Phil Hughes, District Sanitarian, Green River, Wyoming

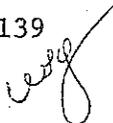
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Septic System, Church & Dwight, Green River, WY

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 75-139

REVIEWING ENGINEER: William L. Garland, P.E. 

DATE OF REVIEW: October 2, 1975

ACTION: Construction is not authorized.

COMMENTS:

The following deficiencies must be corrected before project approval is granted:

1. All plans and specifications must be signed by a licensed engineer in the State of Wyoming;
2. A discharge permit is required for all discharging facilities. An application for the discharge permit must be submitted prior to approval. If possible, it is our recommendation that the effluent be discharged to an evaporation pond, eliminating the need for a discharge permit and self-monitoring requirements.

WLG:jk  
10/6/75

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sanitary System, Amoco Office Trailer, Rock Springs

ARCHITECT OR ENGINEER: Wayne L. Johnson, Johnson, Fermelia and Crank  
P.O. Box 1633, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 75-140

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: October 22, 1975

ACTION: Construction not Authorized

COMMENTS: The following items must be provided provided prior to approval of this project.

- 1) Specifications for installation and backfill of fiber glass septic tank.
- 2) Details of water and sewer hookup.
- 3) Location of water line and/or well relative to waste treatment facility.

WLG:lac  
October 23, 1975

book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

November 25, 1975

PROJECT: Amoco Office Trailer, Sanitary System

ARCHITECT OR ENGINEER: Wayne L. Johnson  
P.O. Box 1633, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 75-140R

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: November 25, 1975

ACTION: Authorized for Construction

COMMENTS:

Only one (1) set of revised plans & spec's were received by this office, therefore, we are retaining them for our records. If you wish a signed set of plans, please submit an additional copy.

WLG/jb

cc: Mr. William H. Smith, Box 654, Green River, Wyoming 82935

Mr. Phil Hughes, District Sanitarian, Green River, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sewage Disposal System, LaRoyce Nield Dairy Farm, Afton WY 83110

ARCHITECT OR ENGINEER: None

WATER QUALITY DIVISION REFERENCE NUMBER: 75-141

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: October 7, 1975

ACTION: Construction Not Authorized.

COMMENTS:

The following provisions must be complied with prior to approval for construction:

1. All plans and specifications must bear the signature or seal of a licensed professional engineer in the State of Wyoming;
2. A detail of the seepage pit is required;
3. Estimated volumes of wastewater and composition of wastewater is required;
4. A determination must be made as to the depth to ground water in the area of installation;
5. Complete specifications are required for type of concrete, method of back-fill, compaction, type and specification of pipe used;
6. Percolation tests must be run in the area of the seepage pit;
7. Location of any domestic water wells in the area must be provided;
8. An overall plan view of area including facility location relative to pertinent topographic features must be provided.

WLG:jk  
10/10/75

cc: Phillip Hughes, District Sanitarian, Green River, WY

RECEIVED SEP 12 1975

75-141

Sept. 3, 75

Dear Sir:

We need to have your approval of this rock filled drain from the septic tank.

Please let us know as soon as you can.

Thank you!  
Laboye Field



September 15, 1975

system, which you

her than a single  
secure the approval  
system.

ed to this office

hesitate to con-

75-141



Sincerely,  
*Phillip Hughes*  
Phillip Hughes, M.P.H.  
District Sanitarian  
P.O. Box 1153  
Green River, Wyoming  
82935

RECEIVED

Hydroponics & Control  
CREVIERTE WYOMING

veillance & Control.

RECEIVED

Hydroponics & Control  
CREVIERTE WYOMING

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Wagon Wheel Elementary School, Off-site Sewerage System,  
Gillette, WY

ARCHITECT OR ENGINEER: Plains Engineering, P. O. Box 117, Gillette, WY 82716  
R.J. Timm, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-142

REVIEWING ENGINEER: <sup>REP</sup> Roy E. Prior, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: September 18, 1975 *A.E. Williamson*

ACTION: Construction authorized.

COMMENTS:

REP:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY  
Department of Planning and Development, City of Gillette, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

December 17, 1975

PROJECT:

Wagon Wheel Elementary School  
Gillette, Wyoming                      Campbell County

ARCHITECT OR ENGINEER:

Plains Engineering, P.O. Box 117, Gillette, Wyo. 82716  
R. J. Timm, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-142R

REVIEWING ENGINEER:

Paul C. Schwieger, P.E. 

DATE OF REVIEW:

December 17, 1975

ACTION:

Construction Authorized

COMMENTS:

The 5' berm may be too narrow for access by maintenance equipment. Per phone conversation of 12/17/75, the engineer will check with city of Gillette and verify top width requirement.

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming  
Department of Planning & Development, City of Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Riverside Trailer Park (Water and Sewer Extensions) Kemmerer, Wyoming

ARCHITECT OR ENGINEER: George D. Crank, Johnson, Fernelia and Crank

WATER QUALITY DIVISION REFERENCE NUMBER: 75-143

REVIEWING ENGINEER: William L. Garland, P.E. *wlg*

DATE OF REVIEW: October 22, 1975

ACTION: Authorized for Construction

COMMENTS: A separate plan should be submitted to the District Sanitarian for review of park-lot layout.

WLG:lac  
October 22, 1975

cc: Marge Gunter, 105 Willow Avenue, Kemmerer, Wyoming  
Phillip Hughes, District Sanitarian, Green River, Wyoming  
Glenn Payne, Lincoln-Uinta County Planner, Kemmerer, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Riverside Trailer Park (Water and Sewer Extensions) Kemmerer, Wyoming

ARCHITECT OR ENGINEER: George D. Crank, Johnson, Fermelia and Crank

WATER QUALITY DIVISION REFERENCE NUMBER: 75-143

REVIEWING ENGINEER: William L. Garland, P.E. *WLG*

DATE OF REVIEW: October 22, 1975

ACTION: Authorized for Construction

COMMENTS: A separate plan should be submitted to the District Sanitarian for review of park-lot layout.

WLG:lac  
October 22, 1975

cc: Marge Gunter, 105 Willow Avenue, Kemmerer, Wyoming  
Phillip Hughes, District Sanitarian, Green River, Wyoming  
Glenn Payne, Lincoln-Uinta County Planner, Kemmerer, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

October 27, 1975

1. PROJECT: Airport & Rodeo Area Sanitary Sewer
2. ARCHITECT OR ENGINEER:
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-144
4. REVIEWING ENGINEER: William L. Garland *WLG*
5. DATE OF REVIEW: October 27, 1975
6. ACTION: Construction not authorized
7. COMMENTS:

The following items must be provided prior to approval by our office:

1. The plans & specifications must be signed by a licensed engineer in the State of Wyoming.
2. A complete set of specifications must be submitted for such items as bedding, backfill, materials, infiltration-inflow, testing procedures, etc.
3. Show horizontal separation for water and sewer line on plan sheets.

WLG/jb  
10-27-75

cc: Bill George, District Sanitarian, Worland  
Ron Martin, Fremont County Planner, Lander

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

November 24, 1975

1. PROJECT: Airport & Rodeo Area Sanitary Sewer  
Lander, Wyoming , 82520
2. ARCHITECT OR ENGINEER: C. E. Spurlock, P.E.  
City Engineer  
Lander, Wyoming, 82520
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-144R
4. REVIEWING ENGINEER: William L. Garland, P.E. *WLG*
5. DATE OF REVIEW: November 24, 1975
6. ACTION: Authorized for Construction
7. COMMENTS:

WLG/jb

cc: Mr. Bill George, District Sanitarian, Worland, Wyoming  
Ron Martin, Fremont County Planner, Lander, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES  
DIVISION OF HEALTH AND MEDICAL SERVICES  
SANITARY ENGINEERING SERVICES  
STATE OFFICE BUILDING  
CHEYENNE, WYOMING 82001

November 24, 1975

1. PROJECT: Airport & Rodeo Area Sanitary Sewer  
Lander, Wyoming , 82520
2. ARCHITECT OR ENGINEER: C. E. Spurlock, P.E.  
City Engineer  
Lander, Wyoming, 82520
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-144R
4. REVIEWING ENGINEER: William L. Garland, P.E. *WLG*
5. DATE OF REVIEW: November 24, 1975
6. ACTION: Authorized for Construction
7. COMMENTS:

WLG/jb

cc: Mr. Bill George, District Sanitarian, Worland, Wyoming  
Ron Martin, Fremont County Planner, Lander, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Improvements within Improvement District No. 28, City of Gillette,  
Water and Sanitary Sewer.

ARCHITECT OR ENGINEER: Plains Engineering, Gillette, WY  
R.J. Timm, Engineer

WATER QUALITY DIVISION REFERENCE NUMBER: 75-145

REVIEWING ENGINEER: Roy E. Prior, <sup>REJ</sup> Paul C. Schwieger, P.E. 

DATE OF REVIEW: October 5, 1975

ACTION: Authorized for Construction.

COMMENTS:

REP:jk  
10/6/75

cc: Malcolm Crawford, District Sanitarian, Gillette, WY  
Department of Planning and Development, City of Gillette, Campbell County, WY

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Goshen Mobile Estates - Enlargement No. 1, Torrington, WY  
(Water and Sewer System)

ARCHITECT OR ENGINEER: Donald R. Horton, P.E., P. O. Box 147, Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 75-146, X-ref. S74-199

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: September 26, 1975

ACTION: Authorized for Construction.

COMMENTS:

FRH:jk

cc: Robert L. Coffman, Director, Environmental Surveillance and Control, Cheyenne  
Harold Anderson, Goshen County Sanitarian, Torrington.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sweetwater County Weed & Pest Control Bldg., Septic Tank and Drain  
Field, Sweetwater County

ARCHITECT OR ENGINEER: Edward Fermelia,  
Johnson, Fermelia & Crank, Inc., Rock Springs, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-147

REVIEWING ENGINEER: William L. Garland, P.E. *wlg*

DATE OF REVIEW: October 9, 1975

ACTION: Authorized for construction

COMMENTS:

WLG:jk  
10/10/75

cc: Phillip Hughes, District Sanitarian, Green River, WY

Grey book

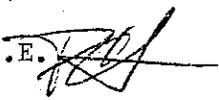
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Valley West Subdivision, Water supply system.

ARCHITECT OR ENGINEER: W. J. Pilch & Associates, P.O. Box 6498  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 75-148 RR

REVIEWING ENGINEER: Tom J. Mueller, <sup>JM</sup> Paul C. Schwieger, P.E. 

DATE OF REVIEW: December 22, 1975

ACTION: Construction authorized.

COMMENTS: The following items were discussed and resolved in a phone conversation, 12/22/75:

- a) The drain detail shall show a minimum dimension of 6 inches above ground level for drain.
- b) Two inch line south of highway shall be cast iron.
- c) Tracts 20 and 21 shall receive water service from the 8 inch city water mains crossing these tracts.
- d) The Division of Water Quality shall receive a copy of the current Water Agreement between the City of Sheridan and the Owner, reflecting all changes in the water supply plan.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: **Block "L" Sewer Extension, South Addition, Casper, WY**

ARCHITECT OR ENGINEER: **G & S Engineering, Casper Board of Public Utilities,  
136 West 8th Street, Casper, WY 82601**

WATER QUALITY DIVISION REFERENCE NUMBER: **75-149**

REVIEWING ENGINEER: **Jake Strohman, Paul C. Schwieger, P.E.** 

DATE OF REVIEW: **October 8, 1975**

ACTION: **Construction authorized.**

COMMENTS:

HJS:jk  
10/10/75

cc: **Nix Anderson, Casper-Natrona Co. Health Dept., Casper, WY**

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

October 27, 1975

PROJECT: Water & Sewer System, Community Center  
Crowheart, Wyoming, 82512

ARCHITECT OR ENGINEER: Harold Engstrom, A.I.A.  
Suite 232 - Three Parker Place  
2600 S. Parker Rd., Denver, Colorado 80232

WATER QUALITY DIVISION REFERENCE NUMBER: 75-151

REVIEWING ENGINEER: William L. Garland *wlg*

DATE OF REVIEW: October 27, 1975

ACTION: (See Comments) Authorized for Construction

COMMENTS: The plans and specifications for this project have been reviewed and it has been determined that they meet the minimum requirements of our Agency.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

October 28, 1975

PROJECT: Sanitary Sewer Extension, Dubois, Wyoming

ARCHITECT OR ENGINEER: Jim Groves  
Nelson, Haley, Patterson & Quirk, Inc.  
625 East Madison, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER: William L. Garland *WLG* 75-152

DATE OF REVIEW: October 27, 1975

ACTION: Construction not Authorized.

COMMENTS:

The following items must be included in the plans and specifications prior to approval by our office:

1. A Detail showing types and dimensions of manholes must be shown.
2. A Detail showing typical water & sewer line x-overs shall be included.
3. Each set of plans shall display the seal or signature of the designing engineer.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Comfort Station on Douglas-Converse Golf Course, Town of Douglas,  
Converse County.

ARCHITECT OR ENGINEER: None Listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-154

REVIEWING ENGINEER: <sup>JL</sup> Jake Strohman, Paul C. Schwieger, P.E. *PK*

DATE OF REVIEW: September 26, 1975

ACTION: Construction is not authorized.

COMMENTS: The following items will have to be incorporated into plans and specifications:

1. Engineer's seal or signature. (See enclosure, Section 4-subparagraph 2)
2. Tie the ends of leach field together with an extension of perforated pipe.
3. Ensure inlet and outlet of septic tank is baffled.
4. Install untreated building paper or straw between 12" backfill and gravel material in leach trench.
5. Mound soil over trench to prevent settling from causing runoff or standing water from percolating through trench.
6. State slopes of leach field and 4" P.V.C.

HJS:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY  
Kathryn Rittmueller, Permit Section, WQD-DEQ, Cheyenne, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Alder Construction Co. Trailer Job Camp      Owner: Alder Const. Co.  
by Sewage Treatment Plant, Casper, WY      P.O. Box 3127  
Casper, WY 82602

ARCHITECT OR ENGINEER: None

WATER QUALITY DIVISION REFERENCE NUMBER: 75-150 N.O.V. 71-75

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E.

DATE OF REVIEW: 10/9/75

ACTION: Plans are incomplete (project has constructed without a state permit  
and is now operating without a permit)

COMMENTS:

A. The following items shown or not shown on above referenced drawings will have to be installed:

1. Four inch sewer lines can only be used from a single unit. The four inch line installed as a main will have to be replaced by a minimum of six (6) inch line.
2. Install two manholes (one at the end of camp collection main and the other where main connects to city 18" V.C.P. main) Manholes to meet Casper Board of Public Utilities specifications as on file in this office.
3. Install a blowoff or flushing hydrant at the end of the water main.
4. Disinfect water lines per AWWA C-601-68.
5. Pressure test waterlines to 1 1/2 times operating pressure and send results to above office.
6. Install a concrete apron around sewer riser on each lot (4 inches thick and 12 inches diam. minimum).

B. The following information was not furnished with the above referenced plans and will be required to complete the avaluation of the system:

1. Seal or signature of designing engineer licensed to practice in the State of Wyoming.
2. Profile of sewer system.
3. Horizontal separation of water and sewer lines.

Review of Plans and Specifications

Alder Construction Co. Trailer Job Camp  
by Sewage Treatment Plant, Casper

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Comments:

B. Continued

4. Cross-over specifications for sewer and water lines.
5. Trench backfill specifications.
6. Material specifications for water line.
7. Illustrate a typical lot with exact location of sewer and water risers and associate branch lines.

cc: Casper Board of Public Utilities  
136 West 8th Street  
Casper, Wyoming 82601

Nix Anderson