

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Riverton, Wells No. 15 & 16, Riverton, Wyoming

ARCHITECT OR ENGINEER: William F. Williams, City Engineer, Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-1

REVIEWING ENGINEER: Robert A. Finther, P.E.

DATE OF REVIEW: January 17, 1975

ACTION: Construction authorized contingent upon compliance with the comments set forth below.

COMMENTS:

Provide a minimum earth fill of two feet at each well location and slope the surface away from each well for a distance of at least 50 feet in all directions.

KFP:jh

1/24/75

Enclosure: 1 set of plans

cc: William 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: Leach Field Design and Percolation Test Results for Sewage Disposal System.
Stansbury Coal Mine, 2 miles north of Reliance, Wyoming.

ARCHITECT OR ENGINEER: Morrison-Knudsen Company, P. O. Box 7808, Boise, Idaho 83729.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-3

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

DATE OF REVIEW: February 20, 1975

ACTION: Authorized for Construction.

COMMENTS:

FRH:jk

Enclosure

cc: Phillip Hughes, District Sanitarian, Rock Springs, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stansbury Coal Mine, 2 miles north of Reliance

ARCHITECT OR ENGINEER: Morrison Knudsen Company, P. O. Box 7808, Boise, Idaho 83729
R. A. Miller, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-3R

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

DATE OF REVIEW: *Jake Strohman* March 13, 1975

ACTION: Permit to construct not approved.

COMMENTS:

Below are listed some discrepancies that we will need some answers for prior to approving septic tank plan:

- Material for septic tank is not listed. (Specifications are needed if built on site or NSF approval seal if prefab.)
- Lift station should not pump directly into septic tank, if possible a collection box (need details) of some type should be put in line a minimum of 10' from septic tank with a 6" or 8" diameter pipe (depending on flow from lift station) with less than 2% slope from box into septic tank.
- Profile grade from septic tank to leech field is needed.
- Exact location of septic tank to surrounding buildings and water lines is needed.
- Recommend treated wood baffles are not installed or provisions should be made for replacement at a future time.

Our office has adopted the requirements of "Ten State Standard Specifications - Sewer Revised 1971 - Water Revised 1968" as guidelines for sewer and water design as well as State and National Regulations.

While looking over your first set of plans forwarded to us, I noticed you were also putting in a potable water supply from Pacific Power and Light (furnished source). Your estimated water consumption requirements are required (see appendix A enclosed) plus verification from Pacific Power and Light. We will also need from Pacific Power and Light: (1) yield of source of supply, (2) pump or pump types and characteristics and well or wells output in G.P.M., (3) storage capacity of Pacific Power and Light, and (4) a list of all facilities that Pacific Power and Light supplies (Town of Reliance, trailer courts, etc.) and their estimated water consumption.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stansbury Coal Mine, 2 miles north of Reliance

ARCHITECT OR ENGINEER: Morrison Knudsen Company, P. O. Box 7808, Boise, Idaho 83729
R. A. Miller, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-3R

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

DATE OF REVIEW: March 13, 1975

ACTION: Permit to construct not approved.

COMMENTS:

A "permit to construct" is required for both water and sewer.

Listed below is a quick review of plans and deficiencies noted:

- Profiles for all sewage lines, plan layout and elevation of all sewer lines and manholes.
- Exact location of all water lines (i.e., not within 10' of sewer lines).
- Blowoff valves and detail for flushing purposes at ends of water mains.
- Details of manholes and also sewer - water line crossovers.
- All plumbing per National Plumbing Code.
- All water or sewer materials NSF approved.
- Procedure for disinfecting all potable water lines and water storage tank prior to use.
- Mechanical ventilation in storage tank pits.
- Safety railings around opening to pits at storage tanks.
- Water storage tank needs protection against vandalism (fence or locks on manholes and pit accesses).
- Storage tank manholes are solid seal type and hinged.
- Potable water O. F. and drain cannot be hooked to same line from process water tank. Need some elevations around storage tank (i.e. end of O. F. and drainage pipe and drainage ditch).
- Is overflow and storage tank sufficiently protected against freezing.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stansbury Coal Mine, 2 miles north of Reliance

ARCHITECT OR ENGINEER: Morrison Knudsen Company, P. O. Box 7808, Boise, Idaho 83729
R. A. Miller, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-3R

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

DATE OF REVIEW: March 13, 1975

ACTION: Permit to construct not approved.

COMMENTS:

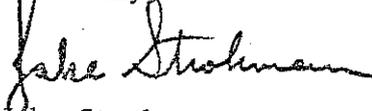
- Specification for material bedding for water and sewage lines.

If any further information is needed, feel free to contact me at this office:

Wyoming Department of Environmental Quality
Water Quality Division
State Office Building West
Cheyenne, Wyoming 82002

Phone (307) 777-7781

Sincerely



Jake Strohman
Environmental Engineer

HJS:jk

Enclosures

cc: Robert Coffman, Environmental Surveillance And Control, DHSS, Cheyenne.
3/17/75

1/20/75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stansbury Coal Project
Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Attn: Ray Miller, Morrison Knudsen Co, Inc.
P.O. Box 7800
Boise, Idaho

WATER QUALITY DIVISION REFERENCE NUMBER: 75-3RR

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

DATE OF REVIEW: April 21, 1975

ACTION: Construction is Authorized

COMMENTS:

Bottom of wet well should have a 1 to 1 slope from outside wall to location of pump suction inlets. We recommend that pump suction inlets be installed with as much horizontal separation as possible to minimize turbulences when both pumps operate at the same time.

HJS/lav

April 21, 1975

cc: Phil Hughes-District Sanitarian, Green River.

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Blue Mesa Court, Kirby, Wyoming

ARCHITECT OR ENGINEER: None listed; submitted by Calvin King, Box 952,
Thermopolis, Wyoming 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 75-5

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

DATE OF REVIEW: February 26, 1975

ACTION: Authorization for "permit to construct" not approved.

COMMENTS: **References:**

- (1) General and Special Standards Governing Mobil Home Parks.
(Amended February 25, 1975)
- (2) Ten State Standard Specifications - Sewer 1971 - Water 1968.
- (3) Wyoming Water Quality Rules and Regulations 1975, Chapter III.
(enclosed)

Reference (3), Section 4, Subparagraph (2): " All plans and specifications submitted shall carry seal or signature of designing engineer as required by state laws governing engineering practice."

Plans lack

Sewer

- Elevations and profile of sewer line.
- Material of sewer plug cap should be specified (nonwood, etc.).
- Assume 6" sewer line will also be soil plastic or PVC.
- Need dimensions of leaching beds.
- Minimum distance of 10' between sewer and water hookups.
- Minimum distance of 25' from water lines to septic tank.
- Leaching fields should be 10' from property and dwellings.
- 5 x 750 = 3750 gallon capacity would be minimum septic tank size, (with hookups shown on plans you need 9 x 750 = 6750 gallon capacity). Present plans show possible hookups (sewer and water) for 17 trailers. As shown above, your septic tank is not large enough for five trailers and to enable your "permit to construct"

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Blue Mesa Court, Kirby, Wyoming

ARCHITECT OR ENGINEER: None listed; submitted by Calvin King

WATER QUALITY DIVISION REFERENCE NUMBER: 75-5

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

DATE OF REVIEW: February 26, 1975

ACTION: Authorization for "permit to construct" not approved.

COMMENTS: (cont'd)

you will need a 6750 gallon minimum with nine hookups. Remove all sewage inlets that will not be used and install manholes as required by reference no. (2) for maintenance and cleaning (i.e. end of line, changes in grade or alignment, 400' maximum distance between manholes with sewer lines 15" or less) must also show typical detail of manhole to meet specifications of reference no. (2).

NOTE: Reference no. (1), 750 gallon minimum design rate per mobile home.

The purpose of your drainage tanks has been questioned. The only purpose that we could rationalize was that they were also septic tanks. What size are they? The tanks could also be used for septic tanks if flow was regulated as a septic tank (not a straight shot through tank) and if there was accessibility for maintenance.

Water

- Plumbing to conform with "National Plumbing Code ASA A 40.8-1955".
- Show location and where your line connects to city water main. Is there a water main up the streets by your leaching fields? If so, show them.
- Verification that Kirby water supply can furnish additional 250 gallons per unit per day from city council.
- Procedure for disinfecting water pipes prior to connecting to city water main (i.e. chlorination).
- Stop and drain valves are not acceptable. Two valves (a shutoff and a drain) would serve the same purpose and is acceptable.
- End of waterline should have a blowoff valve for flushing purposes (typical detail) or system should be a complete loop with water source.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Blue Mesa Court, Kirby, Wyoming

ARCHITECT OR ENGINEER: None listed; submitted by Calvin King

WATER QUALITY DIVISION REFERENCE NUMBER: 75-5

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

DATE OF REVIEW: February 26, 1975

ACTION: Authorization for "permit to construct" not approved.

COMMENTS: (cont'd)

General

Minimal restroom facilities should be provided in all mobile home parks for an emergency or verify that public facilities are readily available at a reasonable proximity.

Further correspondence and plans should be mailed directly to this office, Wyoming Department of Environmental Quality, Water Quality Division, State Office Building West, Cheyenne, Wyoming 82002, until "permit to construct" is authorized by this Division.

HJS:jk
2/26/75
Enclosure

cc: Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne.

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Blue Mesa Court
Kirby, Wyoming

ARCHITECT OR ENGINEER: None Listed; Calvin King
Box 952
Thermopolis, Wyoming 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 75-5R

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: April 17, 1975

ACTION: Construction not Authorized

COMMENTS:

The following items need incorporation into plans and specification and be reviewed by this office prior to construction authorization by the department.

1. Engineer's Seal or Signature.
2. 25' between end of water line and leach field.
3. Type of perforated pipe in leach field (recommend non-metal)
4. Two inch minimum gravel dimension above perforated pipe in absorption field. You also state in specifications that average depth of drain field will be 18 inches. To protect against freezing, I would recommend 2 to 3 foot depth. Mound back fill 4 to 6 inches over top of trench to prevent settling. from causing standing and runoff water to be percolated through absorption trench.
5. Minimum of 42 inch diameter required for manhole.
6. A typical detail of water riser should also be shown. Show gravel area that drain will discharge into.
7. Move manhole to west end of line.
8. Recommend that only curb stop and meter be installed at connection to city water. Drain is not required.

HJS/lav

April 21, 1975

cc: Robert Coffman, Environmental Surveillance and Control, DNSS, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

Page 1 of 2

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

PROJECT: Water System, Wapiti Heights Subdivision, Park County, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, Cody, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-6

REVIEWING ENGINEER: Robert H. Pinther, P.E., & Jake Strohman

DATE OF REVIEW: April 11, 1975

ACTION: Construction not authorized pending receipt of revised plans which are in compliance with the comments set forth below.

COMMENTS:

1. Submit adequate raw water quality data to justify simple chlorination as treatment. The data should include turbidity and coliform test results.
2. Does the owner of the subdivision have a water right on the water to take from the stream?
3. Please submit data covering existing load and future growth on which the pump capacity, water line sizes, and storage tank capacity are based. Will the water be used for fire fighting, lawn sprinkling or other irrigation?
4. The open end of each air release pipe shall extend from the manhole to a point at least one foot above ground and be provided with a screen over the downward facing pipe ends.
5. Revise the storage tanks to comply with the following:
 - a. Pre-cast concrete tanks with buried joints between pre-cast sections are not satisfactory for use as water storage tanks.
 - b. The tops of the tanks shall not be less than two feet above normal ground level.
 - c. The access manholes shall be framed at least four, and preferably six inches, above the surface of the roof at the opening, and shall each be fitted with a solid water tight cover which overlaps the framed opening and extends down around the frame at least 2 inches.
 - d. Each access manhole shall be equipped with a locking device.

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

PROJECT: Water System, Wapiti Heights Subdivision, Park County, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, Cody, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-6

REVIEWING ENGINEER: Robert N. Pinther, P.E., & Jake Strohman

DATE OF REVIEW: April 11, 1975

ACTION: Construction not authorized pending receipt of revised plans which are in compliance with the comments set forth below.

COMMENTS: (CONT.)

- e. The tanks shall be provided with adequate ^{overflow} devices each with a downward facing screened discharge located high enough above grade to prevent the entrance of surface water.
- f. The tanks shall be provided with one or more vents which shall:
 1. prevent the entrance of surface water,
 2. exclude birds, animals and dust; and
 3. terminate in an inverted "U" construction located at least 24 inches above roof or ground surface.
- g. Each tank shall be designed to drain for cleaning or maintenance purposes.
6. Where dead ends occur on the distribution system each shall be provided with a flushing hydrant or blow-off for flushing purposes.
7. Standby chlorination equipment of adequate capacity shall be available.
8. Provide a gas mask immediately outside the chlorination building. The mask shall be designed for chlorine gas and meet the requirements of the U.S. Bureau of Mines.

RSP:cd
4/18/75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water System, Wapiti Heights Subdivision, Park County, WY

ARCHITECT OR ENGINEER: Engineering Associates, Cody, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-6R

REVIEWING ENGINEER: Robert H. Pinther, P.E. and Jake Strohman

DATE OF REVIEW: June 5, 1975

ACTION: Construction not authorized pending receipt of revised plans which are in compliance with the comments set forth below.

COMMENTS:

1. In order to assure a safe water supply under all conditions of raw water quality one of the following steps should be taken:
 - a. Obtain water from a source which never exceeds a turbidity level of one (1) turbidity unit;
 - b. Provide complete treatment for this water. Such treatment consists of a minimum of coagulation, sedimentation, filtration, disinfection and storage.
2. Has a water right now been obtained?
3. The open end of each air release pipe shall extend from the manhole to a point at least one foot above ground and be provided with a screen where the downward facing pipe ends.
4. Revise the storage tanks to comply with the following:
 - a. Pre-cast concrete tanks with buried joints between pre-cast sections are not satisfactory for use as water storage tanks;
 - b. The discharge of each tank overflow shall face downward in addition to being properly screened.
5. Consideration might be given to installation of a transparent panel in the chlorination building door or wall to allow visual detection of chlorine gas from outside the building.

RHP:jk

6/16/75

cc: Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water System for Wapiti Heights Subdivision, Park County

ARCHITECT OR ENGINEER: Engineering Associates, P.O. Box 1539, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-6RR

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

DATE OF REVIEW: 9/15/75

ACTION: Approval withheld pending compliance with the comments set forth below.

COMMENTS:

This review is based on a letter received by this Division on 9/11/75 from Mr. John Bereman, Engineering Associates advising of 5 assurances which owners of this water will incorporate into this water supply.

1) Submit revised plans and/or specifications or an addendum cover the 4 assurances involving construction.

2) Submit revisions showing provisions for the future installation of additional treatment facilities for the removal of turbidity as agreed upon during the owner's recent conference with Mr. A.E. Williamson in this office.

RHP:lav
9/15/75

cc: William George, District Sanitarian, Worland, Wyoming
Jake Strohman, Area Engineer, Cheyenne, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water System for Wapiti Heights Subdivision, Park County, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, P.O. Box 1539, Cody, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-6RRR

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

Robert H. Pinther

DATE OF REVIEW: 10-10-75

ACTION: Construction authorized contingent upon compliance with comments, numbers 1 and 2 below.

COMMENTS: This review covers addendum number 1 and sheets 7, 8, and 9 of the original plans revised on October 6, 1975.

1. The open end of each air release pipe shall extend from the manhole to a point at least one foot above ground.
Note: The "Ten State Standards" require this extension above ground in addition to proper drainage from each manhole.
2. Incorporate in the plans or specifications the provision that the end of each water storage tank overflow shall turn downward and be properly screened.
3. Since an inspection window to permit viewing of the interior of the chlorination room is not provided, extreme caution should be practiced while entering the room after it has been closed off for a period, in order to avoid exposure to undetected chlorine gas leakage.

RHP:lac
10-16-75

cc: Bill George, District Sanitarian, Worland, Wyoming
Jake Strohman, Area Engineer, Cheyenne, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Country Meadow Estate Mobile Home Park, Lift Station and Sewage Treatment Plant, Laramie, Wyoming

ARCHITECT OR ENGINEER: Plans collected and submitted by Thomas L. Combs, 722 Western Federal Savings Building, Denver, Colorado 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 75-7

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

DATE OF REVIEW: August 12, 1975

ACTION: Authorized for construction with comments.

COMMENTS:

1) The 25000 gpd package aeration sewage treatment plant is capable of serving 77 units at a maximum.

2) The pumps serving the lift station should be adequately housed and heated to prevent freeze ups in the winter.

FRH:lav
August 20, 1975

cc: Phillip Hughes, District Sanitarian, P.O. Box 1153, Green River, Wyoming
Roger Prenzlou, Mountain West Realty Inc., 822 So. College Avenue,
Fort Collins, Colorado 80521

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: JRD Mobile Home Trailer Park, Granger, Wyoming 82934

ARCHITECT OR ENGINEER: None listed; submitted by Richard and Jean Powell,
Little America, Wyoming 82929

WATER QUALITY DIVISION REFERENCE NUMBER: 75-8

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

DATE OF REVIEW: *Jake Strohman*
March 10, 1975

ACTION: Authorization to permit construction is not authorized.

COMMENTS: References: (1) Ten State Standard Specifications - Sewer revised 1971
- Water revised 1968
(2) General and special standards governing mobile home parks
(amended February 25, 1974)
(3) Wyoming Water Quality Rules and Regulations 1975, Chapter
III (copy enclosed).

Plans Lack

- Reference (3), Section 4, subparagraph (2) must be adhered to. Land surveyor license is not acceptable for sewer and water.
- Elevations and profile of sewage lines.
- Manhole detail and their locations.
- Detail of all sewage and water line crossovers.
- Sewer risers and details.
- 10' minimum dimension between sewer and water.
- All plumbing to be installed per national plumbing code.
- Procedure for disinfection of water pipes prior to connection to city water supply. (i.e., chlorination)
- Detail of water hookup for trailers and provisions for cold weather protection.
- End of water line should have a blow off valve for flushing purposes (typical detail) or system should be a complete loop with source and we recommend control valves at various locations to prevent a line break necessitating entire trailer park without water. Water line should be a minimum of 18" above sewer line.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: JRD Mobile Home Trailer Park, Granger, Wyoming 82934

ARCHITECT OR ENGINEER: None listed; submitted by Richard and Jean Powell,
Little America, Wyoming 82929

WATER QUALITY DIVISION REFERENCE NUMBER: 75-8

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

DATE OF REVIEW: March 10, 1975

ACTION: Authorization to permit construction is not authorized.

COMMENTS: (cont'd)

- Water and sewer lines should be NSF approved material (nothing listed).
- Type of material specifications of sewer and water line bedding.

Need concurrence from City of Granger that they are capable of the added water supply requirements of 250 gal/unit at a minimum pressure of 20 psi. Since your trailer park is small, we decided that this will not affect wastewater effluent limitations of the "Town of Granger" permit #WY-0022373, but the town should be made aware of these limitations and I quote "there shall be no change in operation that will significantly deteriorate the quality of discharge below that presented in the permit application" and further hookups should be varified with John Wagner, through the permit program of this office.

A minimum of three (3) sets of plans and specifications should be sent to this office for approval.

Further correspondence and plans should be mailed directly to this office, WDEQ, Water Quality Division, State Office Building West, Cheyenne, Wyoming 82002 until "permit to construct" is authorized by this office.

HJS:jk
3/14/75

Enclosure

cc: Robert Coffman, Environmental Surveillance & Control, DHSS, Cheyenne.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: JRD Mobile Home Park, Granger, Wyoming, Sweetwater County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-8R

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

DATE OF REVIEW: April 28, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) The owner indicated that three copies of a letter from the Town of Granger were enclosed indicating certification to supply water and sewer facilities. We received no copies of this letter. Please resubmit copies of the letter.

WATER SYSTEM

- 2) The water risers shall be protected by a concrete apron at the ground surface a minimum of four inches thick and 12 inches in diameter.
- 3) The plastic waterline shall be NSF approved.
- 4) Supply details of the drain valve at the end of the waterline.
- 5) Supply more details on the valve used for the water risers. Valves of the stop and waste type shall not be allowed.
- 6) Supply specifications indicating how the water distribution line will be disinfected prior to use. It should conform to AWWA C601-68. Disinfecting water mains.

SEWER SYSTEM

- 7) The sewer risers shall be protected by a concrete apron at the ground surface a minimum of four inches thick and 12 inches in diameter.
- 8) The use of a cleanout will be allowed only at station 0+00 of the 0+00 to 0+83 line. Manholes are needed at station 0+00, 1+29, and 2+40 on the west to east sewer line. Manhole details will also need to be submitted.

cc: Mr. and Mrs. Richard Powell, Box 1, Little America, Wyoming 82929

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: JRD Mobile Home Park, Granger, Wyoming, Sweetwater County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-8RR

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. 

DATE OF REVIEW: September 22, 1976

ACTION: Not Authorized

COMMENTS:

- 1) The cleanouts shall be surrounded by a concrete apron at least 12 inches in diameter and 4 inches thick.
- 2) We will accept a cleanout rather than a manhole at Sta. 0+00 on the main West to East sewer line.
- 3) The discharge from the pressure relief valve shall not be connected directly into the sewer line. This is a cross-connection.

cc: Mr. Richard Powell, P.O. Box 1, Little America, Wyoming 82929

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Crow Creek Interceptor line Cheyenne, Wyoming 82001**

ARCHITECT OR ENGINEER: **J. T. Banner & Associates, Inc., P. O. Box 550,
Laramie, Wyoming 82070**

WATER QUALITY DIVISION REFERENCE NUMBER: **75-9**

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

DATE OF REVIEW: **March 12, 1975**

ACTION: **Authorized for Construction.**

COMMENTS:

FRH:jk

3/14/75

cc: **Don Park, Sanitarian, City-County Health Unit, 315 West 20th Street, Cheyenne.**

x. ok

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Big Bear Mobile Home Park, Di Maris Subdivision, Cody, Wyoming 82414

ARCHITECT OR ENGINEER: None listed. Herman Elsbury, Box 987, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-10

REVIEWING ENGINEER: *Jake Strohman* and *Robert H. Pinther*
Jake Strohman and Robert H. Pinther, P.E.

DATE OF REVIEW: April 2, 1975

ACTION: Construction is not authorized

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

- Enclosed is a copy of Chapter III "Wyoming Water Quality Rules and Regulations 1975", Section 4 subparagraph (2) requires seal or signature of a Wyoming licensed Engineer.
- Need a minimum of three (3) sets of plans and specifications.
- Each septic tank will have to be 3900 gallon minimum (750 for first trailer and 350 gallons for each additional unit).
- Profile of septic tank, leech field and sewer line.
- Show property lines in immediate area.
- Leech field and septic tanks to be 25 feet from water lines, 10 feet from dwellings for leech field and 5 feet for septic tanks.
- Material specifications for backfill and bedding of trenches and backfilling around and under septic tank.
- Show a typical detail of leech field trench
- If each leech trench was three (3) feet wide (maximum width), a total of 550 minimum length of leech field is required for each septic tank. (Double size of each leech field).
- Need a letter of verification from City of Cody that they can adequately supply 250 gallons per unit at a minimum pressure of pounds per square inch (psi).
- Manholes at end of each sewer line and at change in direction to septic tanks (4 total) clean outs are not acceptable.

REVIEW OF PLANS AND SPECIFICATIONS

Page 2 of 3

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

PROJECT: Big Bear Mobile Home Park, Di Maris Subdivision, Cody, Wyoming 82414

ARCHITECT OR ENGINEER: None listed. Herman Elsbury, Box 987, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-10

REVIEWING ENGINEER: Jake Strohman and Robert H. Pinther, P.E.

DATE OF REVIEW: April 2, 1975

ACTION: Construction is not authorized

COMMENTS: (Cont.)

- Typical detail of manholes (to meet "Ten State Standard Specifications, Sewer Revised 1971)
- Sewer and water risers to protrude four inches above ground surface or flood water or standing water, whichever is higher.
- Type of material for sewer riser plug to be used when riser is not in use.
- "Ten State Standard Specifications" call for a minimum of eight inch sewer lines but it has been the policy of this Division to allow six inch in trailer parks only. No four inch lines allowed except from each trailer to six inch line.
- Does J-M stand for "John Mansville" PVC? If so, what is the pipe identification number (PVC 1120)? If not, the pipe has to have "National Sanitation Foundation" approval seal. All plumbing materials to be "NSF" approved.
- What is the material of leech field pipe and sewer line?
- Show dimensions between sewer and water risers on typical unit detail.
- Water lines should be a complete loop with source or end of line should have a fire hydrant, flushing hydrant or blowoff valve for flushing. Show control valves on system. We recommend valves at various locations to prevent a water line break from causing the entire trailer park to be without water.
- Water lines to be disinfected prior to use (i.e., chlorination). Give procedure in specifications.

REVIEW OF PLANS AND SPECIFICATIONS

Page 3 of 3

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

PROJECT: Big Bear Mobile Home Park, Di Maris Subdivision, Cody, Wyoming 82414

ARCHITECT OR ENGINEER: None listed. Herman Elsbury, Box 987, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-10

REVIEWING ENGINEER: Jake Strohman and *Robert H. Pinther* Robert H. Pinther, P.E./

DATE OF REVIEW: April 2, 1975

ACTION: Construction is not authorized

COMMENTS: (Cont.)

- Sewer riser to have a long sweeping angle into six inch main line toward direction of flow (give details).

Any further correspondence should be directed to this office, Wyoming Department of Environmental Quality, Water Quality Division, State Office Building West, Cheyenne, Wyoming 82002 until construction is authorized by this office.

JS:RHP:cd
Enclosure

cc: Robert Coffman, Environmental Surveillance and Control Services, Wyoming
Department of Health and Social Services, State Office Building West,
Cheyenne, Wyoming 82002

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Big Bear Mobile Home Park (20 units), Cody, Wyoming.
Owner: Herman Elsbury, Box 987, Cody, Wyoming 82414.

ARCHITECT OR ENGINEER: Lloyd Jager, P.E., Engineering Associates
Box 1539
Cody, Wyoming 82414.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-10R

REVIEWING ENGINEER: Jake Strolman, Robert Pinther, P.E.

DATE OF REVIEW: May 13, 1975

ACTION: Construction authorized. (See compliance items under comments.)

COMMENTS: Note: Any change of plans should be approved by this Department.

1. Maintain 10' minimum distance between sewer and water lines.
2. Manholes must be extended to natural ground surface for easy access.
3. Water lines to be disinfected per AWWA C601-63 (copy enclosed).
4. Trenches to be compacted to soil density of existing trench wall or greater.

The leach field system shown on your plans will not have a uniform loading as required for a leach field and the resultant effect is that the leach field will be saturated at the upward end and gradually seal off the perforations until the effluent is a straight shot into the evaporation pond. We recommend that a distributed drain field be installed prior to the evaporation pond for uniform distribution and better efficiency. We would recommend also that the evaporation pond be full retention as you will be required to have a discharge permit, monitor effluent and have a certified class "D" wastewater treatment operator if the lagoon discharges. Enclosed is an application for a discharge permit if you decide to go this way. The permit should be filed six months preceding a discharge.

Two sets of plans have been sent to Environmental Surveillance & Control for their portion of the review.

RJS:jk

cc: Herman Elsbury, Box 987, Cody, Wyoming.
William George, District Sanitarian, Worland, Wyoming.
Robert Coffman, Environmental Surveillance & Control, Cheyenne, Wyoming.

~~Book~~
Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: PV Estates, Goshen County, Wyoming

ARCHITECT OR ENGINEER: Don Horton, P.E.; William L. McKenna, P.O. Box 448,
Torrington, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-12

REVIEWING ENGINEER: Jake Strohman, and Frank R. Harman, P.E.

DATE OF REVIEW: March 21, 1975

ACTION: Authorization for construction is not approved

COMMENTS: Approval of plans by this Division is contingent upon the incorporation of the following items into plans.

- Show an elevation profile of sewage mainlines showing manholes.
- Manholes (show a typical detail) should be installed at the end of every line.
- I realize that there isn't much room by the lagoon for a manhole due to the 48" dropoff but a manhole should be as close as possible to the lagoon inlet.
- Material specifications for sewer lines.
- Show typical detail of sewage line discharge into lagoon.
- Is lagoon in Platte River flood plain? What is high water level in comparison with lagoon elevation? Are there any well type water supplies within ½ mile besides subdivision? If so, give locations.
- Lagoon is to be fenced with warning signs.
- Lagoon will have to be approximately one acre surface area with provisions for future expansion to prevent discharge. If there is a discharge, you will be required to obtain a permit from Water Quality Division and monitor discharge. (See Water Pollution Control for details).
- Give details of lagoon dike (i.e. material and slopes).

cd
3/25/75

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: PV Estates, Goshen County, Wyoming
William L. McKenna, Box 448, Torrington, Wyoming 82240

ARCHITECT OR ENGINEER: Donald Horton, P.E., Box 147, Torrington, Wyoming 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 75-12R

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E.

DATE OF REVIEW: April 15, 1975

ACTION: Construction is not authorized

COMMENTS:

The profile of your sewer system shows that you can lower the inlet of your lagoon and thus improve the grade of your sewer line. We recommend that the bottom elevation of the manhole preceding the lagoon be set at the elevation of the surface operating level of the lagoon (recommend 4 feet above the bottom of the lagoon). With the system shown, put the inlet of the lagoon under lagoon water surface and thus also eliminate the possibility of inlet freezing closed.

In a meeting with William McKenna, mutual agreement has been made to establish the ground water table at lagoon site and final recommendations will be made after this elevation has been furnished to this Department.

Considering locations of wells, location of ground water, and types of soil, lagoon will have to be sealed with 4 to 6 inches of compacted bentonite or 2 to 4 inches of good quality clay. Compaction is to be obtained with construction equipment or "sheeps foot" if necessary. Plastic or waterproof sheeting is also an acceptable sealer.

The treatment system has been accepted by this Department, the above design points are just to make the most effective system for the environment and the health of the people involved.

HJS:jk
4/17/75

cc: William McKenna, Torrington, Wyoming
Malcolm Crawford, District Sanitarian, Gillette, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: P.V. Estates, ATTENTION William L. McKenna, Box 448, Torrington,
Wyoming 82240

ARCHITECT OR ENGINEER: Don Horton, Box 147, Torrington, Wyoming 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 75-12R

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

DATE OF REVIEW: April 24, 1975

ACTION: Construction is Authorized. See compliance items.

COMMENTS:

Under mutual agreement by telephone conversation with above concerned parties, the following compliance items have been agreed to be met:

1. Lagoon will be sealed and bottom leveled within $\pm 6"$.
2. Manhole preceding lagoon will be installed with bottom elevation at the 4' water surface operating level of the lagoon.
3. The slope through the collection system will utilize the lowering of the manhole preceding lagoon to enable the slope of the collection system to be at the maximum permissible under existing conditions. The lagoon will also be placed at maximum allowable depth permissible by existing conditions.

HJS:jk
4/25/75

cc: William L. McKenna, Torrington, Wyoming.
Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ANDERSON SUBDIVISION, 2nd Extension, Gillette, Wyoming

ARCHITECT OR ENGINEER: R.J. Timm, P.E.

Plains Engineering
Box 117
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-13

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

DATE OF REVIEW: April 3, 1975

ACTION: Construction is not authorized.

COMMENTS: A letter stating or drawing showing details of items listed under comments which will be incorporated in plans and specifications will need to be received and evaluated by this office. If a positive review of this letter or drawing is obtained, your approved plans will be forwarded to you.

- Statement on sheet 5 of drawing to include disinfection of storage tank and water lines "per current AWWA standards".
- Drain from storage tank to street should have a solid base (i.e. concrete) around end of pipe with screen or flap over the end and outfall should be above standing or flood water.
- Construction will not commence until casement of drainage way across the State of Wyoming lands is approved.
- Some type of ventilation (mechanical forced) will have to be provided in pneumatic ejection pit for personnel safety precautions.
- Trench backfill specifications - amount of lifts and especially around sewer pipe and package plant to prevent lateral or vertical displacement.
- Recommend the possibility of a wet well lift system or have a standby pneumatic ejector. "Ten State Standard Specifications" does not require the standby but states that overflow may be tolerated, however, Wyoming does not allow by-pass of sewage treatment system. Under present design, there are no provisions for maintenance of pneumatic-ejector without backing up sewer. Would appreciate your comments on solutions to this problem.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Anderson Subdivision, 2nd Extension, Gillette, Wyoming

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-13R

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

DATE OF REVIEW: April 15, 1975

ACTION: Construction Authorized

COMMENTS:

HJS:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming
Jim Anderson, Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oregon Trail Estates, Glenrock, Wyoming

ARCHITECT OR ENGINEER: G. K. Wolz, 3336 Navarre Road, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14

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

DATE OF REVIEW: March 21, 1975

ACTION: Construction authorized subject to receipt of revised plans which are in compliance with the comments set forth below:

COMMENTS:

1. Submit sewer profile and plan view between manholes 2 and 6 on Oregon Trail.
2. Limit the distance between manholes to 400 feet. Note: Provide one additional manhole on "South Pass".
3. It appears that the sewer section between manholes 6 and 7 could be eliminated.
4. The use of 6 inch sewer main shall be limited to service between (1) manholes #6, #2, and #3; (2) manholes #6, #10, and #11; and (3) manholes #6, #7, #8, and #9.
5. The sewer manholes shall have a minimum diameter of 42 inches.
- ✓ 6. The maximum allowable infiltration or exfiltration shall be required of the entire sewer system including the manholes.
- ✓ 7. The open ends of all water mains shall be plugged effectively when construction is not in progress.
8. Specify "Section 8.43 Crossings" of the Ten State Standards in its entirety in lieu of the second paragraph under "Installation" on page two of the specifications add to subsection "a" of the above the following: "for a horizontal distance of at least 10 feet on each side of the crossings".
9. Specify that the calcium hypochlorite used for disinfecting shall contain 70% available chlorine.

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

PROJECT: Oregon Trail Estates, Glenrock, Wyoming

ARCHITECT OR ENGINEER: C. K. Wolz, 3330 Navarre Road, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14

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

DATE OF REVIEW: March 21, 1975

ACTION: Construction authorized subject to receipt of revised plans which are in compliance with the comments set forth below:

COMMENTS: (cont.)

10. Submit profile and plat plan views of all water main.
11. Show the location of all sewer crossings on the water main profiles.
12. Submit profile and plat plan views of the approximately 650 foot sewer line to the sewage treatment plant.
13. Provide sufficient housing and heating to prevent freezing of the chlorinator.
14. Provide water under pressure for maintenance purposes at the sewage treatment plant. The water outlet shall be protected against back syphonage by means of a vacuum breaker located beyond the last water control valve on the system.
15. Provide a fence around the plant to prevent the entry of unauthorized person.
16. Provide a warning sign designating the nature of the treatment facility.
17. The engineer's name or seal and his registration number shall appear on each sheet of the plans.
18. Identify the project on each sheet of the plans.
19. The plant effluent analysis shall not exceed the following:
 - 30 ppm suspended solids
 - 30 ppm BOD
 - 200 coliform organisms per 100ml
 - 0.5 parts per million residual chlorine.
20. Consideration should be given to provision of a five day retention pond between the plant effluent pipe and the receiving stream.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oregon Trail Estates Water and Sewer System, Glenrock, Wyoming.

ARCHITECT OR ENGINEER: C. K. Wolz, 3330 Navarre Road, Casper, Wyoming 82601.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14R

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

DATE OF REVIEW: May 13, 1975

ACTION: Construction authorized. Compliance with the comments set forth below shall be accomplished.

COMMENTS:

I. Sewer System

A. Collection System

- ✓ 1. Provide a watertight seal at each joint of the pre-cast manhole sections.
- ✓ 2. Lay all sewers with a straight alignment between manholes.
- ✓ 3. Specify a minimum horizontal separation of 10 feet between all water and sewer mains. NOTE: It appears that less than 10 feet separation occurs near the intersection of Pioneer and Oregon Trail.
- ✓ 4. Sewers shall be sufficiently deep so as to receive sewage from basements.
- ✓ 5. A sewage lift station of the dry well type is recommended.
- ✓ 6. If the wet well type lift station is provided, the pumps shall be removable for repair and returned to operation without it being necessary for any person to enter the wet well.

B. Sewage Treatment Facility

- ✓ 1. Submit the data and calculations on which the size of the aeration equipment is based.
- ✓ 2. Submit the data and calculations on which the sizes of the aerated and non-aerated lagoons are based.
- ✓ 3. Show the path of hydraulic flow through the lagoons.
- ✓ 4. Show the details of the piping and flow control appurtenances between lagoons.
- ✓ 5. Provide a vertical separation of at least 4 feet between the bottom of each treatment lagoon and the highest known ground water level.
- ✓ 6. Provide a method of sealing all treatment lagoon sides and bottom against seepage. Each lagoon shall be vertically water tight.
- ✓ 7. Submit a guarantee that the effluent from this facility will meet the required standards of not more than 30 ppm BOD, 30 ppm suspended solid, and 200 coliform organisms per 100 milliliters.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oregon Trail Estates Water and Sewer System, Glenrock, Wyoming.

ARCHITECT OR ENGINEER: C. K. Wolz, 3330 Navarre Road, Casper, Wyoming 82601.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14R

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

DATE OF REVIEW: May 13, 1975

ACTION: Construction authorized. Compliance with the comments set forth below shall be accomplished.

COMMENTS:

- ✓ 8. Submit profile and plot plan from manhole #7 to the sewer lagoons.
- ✓ 9. Show location of treatment facility in relation to the subdivision and the river. NOTE: Locate facility on high ground at the southeast corner of the 20 acre property available for a sewage treatment facility.

RHP:jk

cc: Federal Housing Administration, Federal Bldg., Casper, Wyoming.
Town of Glenrock, Glenrock, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oregon Trail Estates (addendum to South Pass and Fort Laramie Streets)
Converse County

ARCHITECT OR ENGINEER: C. K. Wolz, P. O. Box 322, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14RR

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: August 26, 1975

ACTION: Construction authorized.

COMMENTS:

HJS:jk

8/27/75

cc: Owner, Eugene Potter, 1221 South Beverly, Casper, WY
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: Oregon Trail Estates
Sewage Lagoon
Converse County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-14RRR

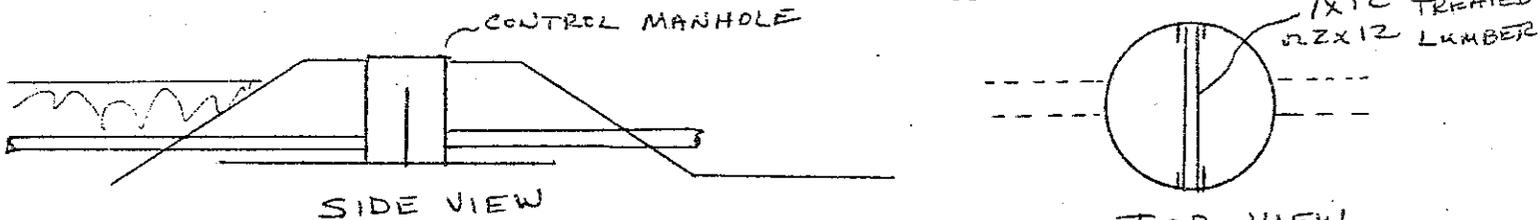
REVIEWING ENGINEER: Jake Strohmman, Paul Schwieger, P.E.

DATE OF REVIEW: February 10, 1976

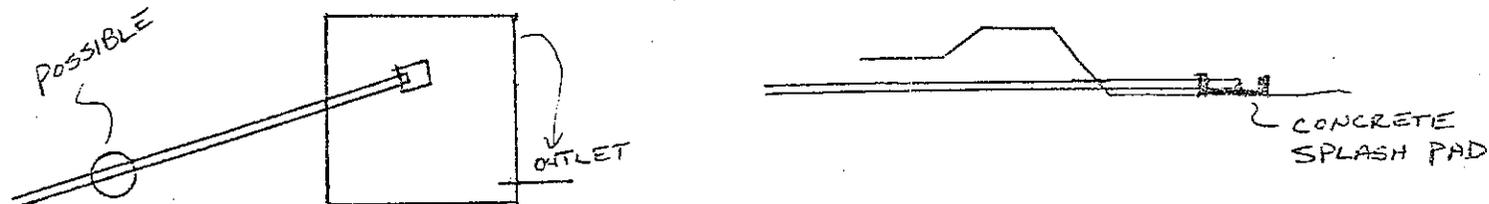
ACTION: Construction is not Authorized.

COMMENTS:

The manholes located at B-B and C-C do not have any method of lagoon water surface level control. Below is a recommended method. Section D-D is the most critical and definitely should have this type of flow control.



The outfall manhole preceding the lagoon is not required on a force main. The force main should terminate as close to the center of lagoon as possible to keep a sludge bank from building up at the dike. This would also prevent freezing as the manhole shown on the drawing is very close to the surface. If a maintenance manhole is required on the force main, it should be located somewhere between the lagoon and the lift station.



The lift station should have a hoisting structure and a hoist handy as there are no bar screens or grit removal and rags and grit clogging up the pumps will cause considerable maintenance.

Warning signs should be located on all four sides of the lagoon. Signs may be located on fence posts.

In a conversation with Gene Potter last week, he inquired about not lining the second cell with bentonite which is authorized by this office if desired.

Mr. Potter also stated that he wanted to use the areators even if his facility didn't have a discharge (full retention). This operation would be a waste of money in investing in the areation equipment and the power costs. He stated that he wanted the areation equipment to keep solids from going to the second cell and sealing off percolation. He thought that the areation would digest most of the solids and therefore the amount of solids going to cell No. 2 would be less. This is incorrect as the areation equipment will keep the solids in a suspended flocculation state and never have a chance to settle out until they reach the quiescent state of the second lagoon. The operation of the first cell under non-areation conditions will cause most of the solids to settle out and thus less solids would go to cell No. 2 unless the hydraulics is such that detention time is short and solids can't settle out in the first cell. There is no problem with this type operation providing the cell is kept in an aerobic operating condition.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Daniels Trailer Court, P.O. Box 671, Big Piney, Wyoming 83113

ARCHITECT OR ENGINEER: None listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-15

REVIEWING ENGINEER: Jake Strohman, and William L. Garland, P.E.

DATE OF REVIEW: March 24, 1975

ACTION: Co..struction is not authorized

COMMENTS: We checked our files and found no record of plans for the original construction of Daniels Trailer Court. It sounds as though the addition of 18 more spaces will not affect your permit although we will need three complete sets of plans showing entire trailer park (existing and proposed addition). These plans shall include size, location and details of the following:

1. Lagoon (show detail of inlet)
2. All water and sewer lines (existing and proposed)
3. Manholes
4. Typical detail of a trailer lot showing sewage and water hookups
5. Typical detail of sewage and water hookups
6. Well or wells locations
 - a. depth of well or wells
 - b. yield of well or wells
 - c. pump or pumps characteristics
 - d. actual pump or pumps output in gallons per minute (gpm)
 - e. storage capacity of well outputs
7. Profile of sewage lines showing manholes
8. All water line materials should be "NSF" approved
9. Details of all sewage and water line crossovers
10. Procedure for disinfection of water lines prior to use.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Daniels Trailer Court, P.O. Box 671, Big Piney, Wyoming 83113

ARCHITECT OR ENGINEER: None listed

WATER QUALITY DIVISION REFERENCE NUMBER: 75-15

REVIEWING ENGINEER: Jake Strohman and William L. Garland, P.E.

DATE OF REVIEW: March 24, 1975

ACTION: Construction is not authorized

COMMENTS: (cont.)

11. Material specifications of water and sewage line bedding

Enclosed is a copy of "Wyoming Water Quality Rules and Regulations 1975 Chapter III". Note Section 4 subparagraph (2) stating requirement of Engineers signature or seal.

Any further correspondence should be directed toward this office, Wyoming Department of Environmental Quality, Water Quality Division, State Office Building West, Cheyenne, Wyoming 82002 until construction is authorized.

cd

3/25/75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Daniels Trailer Park Extension

ARCHITECT OR ENGINEER: ATTN: Peter M. Jorgensen, P.E., Surveyor Scherbel, Ltd.
Box 96
Big Piney, Wyoming 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 75-15R

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

DATE OF REVIEW: April 28, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Show 4" minimum dimension on sewer and water risers above ground surface, standing water or flood water, whichever is higher.
2. Two more manholes are required. One at the west end of line and one half way between east end of line and west end. (400' maximum spacing between manholes on lines less than 15".) Clean outs are only acceptable on a connection from a single residence.
3. At 0 + 00 location of line, horizontal distance between water and sewer lines is not ten feet.
4. Give water line disinfection procedure.
5. Give detail of blowoff valve or flushing hydrant to be installed on the end of water lines (two places). Again we recommend system be a complete loop with source to provide a more efficient method of meeting supply demands.
6. Show details of well termination, (sanitary seal detail, distance well casing is above pit floor).
7. Distance concrete walls of well pits extends above ground surface, surface water or flood water, (whichever is higher).

All sewer lines unless cast iron with solid, welded joints or sewer lines constructed and pressure tested to 50 psi should be 50 feet (horizontal distance) from well (for your future reference).

HJS:jk
4/29/75

cc: Phillip Hughes, District Sanitarian, Green River, Wyoming.
Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Daniels Trailer Park, Box 671, Big Piney, Wyoming 83113.

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E., Surveyor Scherbel, Ltd.
Box 96, Big Piney, Wyoming 83113.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-15RR

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

DATE OF REVIEW: May 12, 1975

ACTION: Construction authorized.

COMMENTS:-

There are two items of discrepancy with your existing facility that do not meet health standards. Should there be a problem causing unsafe drinking water, it would be to your advantage to upgrade your facility to meet these standards.

1. Sewage lines should be 50 feet from all potable water wells unless they are cast iron and pressure tested to 50 psi minimum.

2. All water storage facilities should be above natural ground surface. In your facility an acceptable alternative would be to have the drain from each well pit installed so that draining from pit goes to daylight.

Two sets of plans have been forwarded to Environmental Surveillance and Control for their portion of the review.

HJS:jk
5/12/75

cc: Daniels Trailer Park, Box 671, Big Piney, Wyoming.
Phillip Hughes, District Sanitarian, Green River, Wyoming.
Burton Butcher, Sublette Co. Planner, Pinedale, Wyoming.
Robert Coffman, Environmental Surveillance & Control, DHSS, Cheyenne, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING
Cheyenne, WY 82001

1. PROJECT: Daniels Trailer Park
Box 671, Big Piney, Wyoming 83113
2. ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E.
Box 96
Big Piney, Wyoming 83113
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S75-57 Cross Reference D.E.Q. 75-15RR
4. REVIEWED BY: Phillip Hughes, M.P.H. P.H.
5. DATE OF REVIEW: May 15, 1975
6. ACTION: Not Approved
7. COMMENTS:
 1. The trailer court shall be well lighted at night.
 2. Provisions shall be made for solid waste management at this facility.
 3. Emergency public toilet facilities shall be provided in the Mobile Home Park.
 4. The location and width of surface materials of roadways shall be provided.
 5. Information relating to recreational areas at the court shall be provided.
 6. Each unit shall abut on a driveway not less than 24 feet in width which shall have a non-constructed access to a public street or a highway.

PH/em

cc: Robert L. Coffman, M.P.H. Director-Environmental Surveillance & Control
✓ Bill Garland, D.E.Q.
Burton Butcher, Sublette Co. Planner, Pinedale, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING
Cheyenne, WY 82001

1. PROJECT: Daniels Trailer Park
Box 671 Big Piney, Wyoming 83113
2. ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E.
Box 96
Big Piney, Wyoming 83113
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: 875-57R Cross Reference IEQ 75-15RR
4. REVIEWED BY: Phillip Hughes, M.P.H. P.H.
5. DATE OF REVIEW: May 19, 1975
6. ACTION: Approved
7. COMMENTS:

The plans are being returned to Burton Butcher, Sublette County
Planner, Pinedale, Wyoming.

NOTE: It is suggested that a copy of these plans be sent to OSHA,
200 E. 8th Ave., Cheyenne, Wyoming.

PH/cm

cc: Robert L. Coffman, M.P.H. Director-Environmental Surveillance & Control
✓ Bill Garland, D.E.Q.
Burton Butcher, Sublette Co. Planner, Pinedale, Wyoming



REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water and Sewer Facilities for Sanco Addition Mobile Home Park,
Douglas, Wyoming

ARCHITECT OR ENGINEER: John A. Lambert, Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-16

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

DATE OF REVIEW: March 20, 1975

ACTION: Construction authorized subject to receipt of revised plans which are in compliance with the comments set forth below.

COMMENTS:

1. Provide manholes at maximum intervals of 400 feet.
2. Provide eight inch sewer between manholes #2, #3, and #4.
3. Sewer line leakage inward or outward shall not exceed 200 gallons per inch diameter per mile per day for any section of the system.
4. Manholes shall have a minimum diameter of 42 inches.
5. The PVC water main shall be of the non toxic type bearing the seal of approval of the National Sanitation Foundation or other adequate assurance as to this quality shall be submitted.
6. Show the relative locations of the water and sewer mains at the points where they cross between manholes #3 and #4 and between manholes #5 and #8.
7. Specify pressure testing and allowable leakage testing of water mains.
8. Specify a minimum cover over water mains to prevent freezing.
9. Specify procedure for adequate flushing and disinfecting of water main in accordance with one of the methods set forth in Section C 601-68, ANWA Standard for Disinfecting Water Mains.
10. Indicate method of draining water hydrants.
11. It is recommended that a long sweep elbow or two 45 degree elbows be located at the base of the sewer service risers.
12. Identify the project by putting its name on each sheet of the plans.

RHP:cd - 3/28/75

cc: Al Straessle, City-County Planner, Douglas, 130 South Third.
A.V. Russell, P.O. Box 214, Douglas, Wyoming 82633
Robert L. Coffman, M.P.N., Director, Environmental Surveillance & Control Services
State Office Building West, Cheyenne, Wyoming 82002

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water and Sewer Facilities for Sanco Addition Mobile Home Park,
Douglas, Wyoming

ARCHITECT OR ENGINEER: John A. Lambert, Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-16R

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

DATE OF REVIEW: April 1, 1975

ACTION: Construction authorized subject to receipt of revised plans which are
in compliance with the comments set forth below.

COMMENTS:

1. Specify a minimum residual chlorine concentration of 50 parts per million for disinfecting the water main.
Note: It is recommended that the disinfecting procedure be carried out in accordance with one of the methods set forth in Section C601-68 of AWWA Standard for Disinfecting Water Mains, copy enclosed.
2. Specify method of draining fire hydrants and method of disposal of this drainage.
3. Provide a long sweep elbow or two 45 degree elbows at the base of each individual sewer service reiser.
4. Provide this office with a copy of the plans which includes the specifications and a plan view of the water mains.

RHP:jk
4/9/75
Enclosure

cc: Robert Coffman, Director, Environmental Surveillance And Control, DHSS, Cheyenne

Crab

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sanco Addition Mobile Home Park, Douglas, Wyoming

ARCHITECT OR ENGINEER: John A. Lambert, P.E., Box 34, Douglas, Wyoming 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 75-16RR

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

DATE OF REVIEW: April 17, 1975

ACTION: Construction Authorized

COMMENTS:

NOTE: A letter of verification from town of Douglas stating that their treatment facility is capable of added organic and hydraulic load and that their water supply can supply 350 gallons per unit per day (51 units) at a minimum pressure of 20 psi under all conditions of flow for Sanco Mobile Home Park is required. Robert Pinther has talked to town officials so this letter can be waived. Future projects should have this letter of verification.

In general, three complete sets of plans for mobile home parks are required. One copy is retained by Water Quality Division, one copy is retained by Environmental Surveillance and Control and the third copy is returned to permit applicant upon final approval. Since our portion of review is complete, two complete sets of plans should be sent to Environmental Surveillance and Control for their portion of review. Since these plans are to be used for installation guidelines, the specification letter of March 31, 1975 by your office should be incorporated into the plans. If any further information is needed as to requirements of Environmental Surveillance and Control, they can be reached at 777-7358 or contact Malcolm Crawford, District Sanitarian, Gillette, Wyoming, 682-465.

HJS:jk
4/21/75

cc: Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne
Malcolm Crawford, District Sanitarian, Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

October 29, 1975

PROJECT: Springland Addition Sanitary Sewer
Rock Springs, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: Mike Brenneman
Upland Industries
Suite 1000 - 110 No. 14th St., Omaha, Nebraska, 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-17R

REVIEWING ENGINEER: William L. Garland *WLG*

DATE OF REVIEW: October 29, 1975

ACTION: Authorized for Construction

COMMENTS:

Pond

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Glenarne Addition, Filing No. 1 (130 lots), Green River, Wyoming

ARCHITECT OR ENGINEER: R. Michael Bronneman, P.E., Upland Industries,
110 N. 14th Street, Omaha, Nebraska 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 75-18

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

DATE OF REVIEW: April 11, 1975

ACTION: Construction is authorized. See below compliance items.

COMMENTS:

1. Typical section or specifications for water-sewer or storm sewer crossovers is required. (This Department does not feel that contractors are familiar with "Ten State Standards".)
2. A letter of verification from Pacific Power & Light is required stating that they are capable of supplying 100 gallon per day per capita at a minimum pressure of 20 psi under all conditions of flow demand. (3.5 capita per single family residence will be used to determine flow quantity in Wyoming.)

HJS:jk
4/17/75

E

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Hickok Court
Green River, Wyoming**

ARCHITECT OR ENGINEER: **Upland Industries R. Michael Brennan, P.E.
110 North 14th Street
Omaha, Nebraska 68102**

WATER QUALITY DIVISION REFERENCE NUMBER: **075-19**

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

DATE OF REVIEW: **April 11, 1975**

ACTION: **Construction Authorized contingent upon
compliance with items listed under comments.**

COMMENTS:

1. On sheet 9, "Sewer and Water Connection" view (upper right hand corner of page) change 20' dimension to 24'. In view in lower right hand corner change "Separation" dimension to (10' minimum, 10' maximum). All water and sewer horizontal separation dimensions to be 10 feet unless sewer line is constructed to same pressure specifications as water line.
2. Typical Section of Water-Sewer Line crossovers is required. (This department rules that this crossover should be shown on drawing because most contractors are not familiar with "Ten State Standard Specifications")
3. A letter of verification from Pacific Power and Light Co. that they can supply 100 gallon per day per capita at a minimum pressure of 20 psi under all conditions of flow demand. (3.5 capita per single family dwelling is used for design quantity in Wyoming)

Two sets of plans sent to Environmental Surveillance and Control office for remainder of review.

JS/lav

April 23, 1975

cc: Robert Coffman, Environmental Surveillance and Control, DHS5, Cheyenne, Wyo.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING
Cheyenne, WY 82001

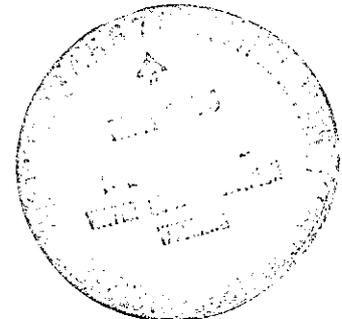
1. PROJECT: Hickok Court (207 Unit Spaces)
Green River, Wyoming 82935
2. ARCHITECT OR ENGINEER: Upland Industries--R. Michael Brenneman, P.E.
110 North 14th Street
Omaha, Nebraska 68102
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S75-66 D.E.Q. Cross Reference
#75-19
4. REVIEWED BY: Phillip Hughes, M.P.H. PA.
5. DATE OF REVIEW: May 2, 1975
6. ACTION: Approved
7. COMMENTS:

NOTE: It is suggested that a copy of these plans be sent to OSHA,
200 E. 8th Ave., Cheyenne, Wyoming 82001.

These plans are being returned to Albert Emden's Office.

PH/cm

cc: Robert L. Coffman, M.P.H. Director-Environmental Surveillance & Control
/ Paul Schweiger, P.E., D.E.Q. Cheyenne, Wyoming
Marty Kelsey, Administrative Assistant to the Mayor, Green River
Albert Emden, County Sanitarian, Green River



RECEIVED
MAY 2 1975

DHMS
Environmental Surveillance & Control
CHEYENNE, WYOMING

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Peterson Development Plan, Jack Peterson, Moorcroft, Wyoming

ARCHITECT OR ENGINEER: Ted Vore, Plains Engineering, Box 727, Newcastle, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-20

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

DATE OF REVIEW: May 13, 1975

ACTION: Construction authorized. (Compliance with items 2. and 4. is mandatory.)

COMMENTS:

1. General practice for leach field trench depth is 18 inches minimum to top of pipe and to crown the top of the trench 4 to 6 inches to prevent settlement from letting runoff and surface water from percolating thru trench.
2. Install a floor drain to daylight in well house.
3. Use AWWA C601-68 for current disinfection procedure for potable water lines.
4. Furnish following information to this Department after well is completed:
 1. depth of well,
 2. yield of well,
 3. actual pump output in g.p.m.,
 4. well output should be 6 to 10 times average daily use of system, and
 5. bacteriological and chemical analysis of water sample.

Two sets of plans to Environmental Surveillance and Control for their portion of the review.

HJS:jk
5/15/75

cc: Malcolm Crawford, District Sanitarian, Gillette.
Robert Coffman, Environmental Surveillance and Control, Cheyenne.
Jack Peterson, Moorcroft, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Kelly Heights Addition, Casper, Wyoming

ARCHITECT OR ENGINEER: Casper Board of Public Utilities, 136 West 8th Street,
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-21

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: April 1, 1975

ACTION: Construction authorized.

COMMENTS:

Pool

REVIEW OF PLANS AND SPECIFICATIONS

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

September 3, 1975

PROJECT: Eastgate, Horizon Heights, Kelley Heights, Longview #3 Additions
Water Distribution Extensions

ARCHITECT OR ENGINEER: C.O. Andersen, Casper Board of Public Utilities
136 W. 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 75-53, 75-57, 75-21, 75-76

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

DATE OF REVIEW: August 29, 1975

ACTION: Construction authorized (see compliance items)

COMMENTS:

- 1) Water lines installed, disinfected, and tested per "Casper Board of Public Utilities" water specifications.
- 2) All dead ends of water mains are to have a fire hydrant or flushing valve installed.

JS/PS/mf

cc: Nix Andersen

K. 1004

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cody Meat Service Processing Plant

ARCHITECT OR ENGINEER: George W. Tresler, P.E., P.O. Box 1050, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-22

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

DATE OF REVIEW: April 2, 1975

ACTION: Construction authorization is contingent on the following items listed under comments being incorporated in plans or specifications.

COMMENTS:

- A minimum of 3 sets of plans and specifications are required by this Department.
- Specifications for sewer line bedding and backfill under and around holding tank.
- Clean outs or manholes are required. At least one on 4" line and one on 6" line after grease trap (five details).
- Recommend sewer line be installed below frost line. Also recommend insulation over grease trap since it will be susceptible to freezing.
- Recommend some type of visual gage for showing depth of waste in holding tank.
- Show a profile of sewage and waste line.
- Where is the holding tank liquid dumped when it is pumped?
- Specify the method for disposal of blood. Blood shall not be discharged into this system.

Any further correspondence should be mailed directly to this office: Wyoming Department of Environmental Quality, Water Quality Division, State Office Building West, Cheyenne, Wyoming 82002 until construction is authorized by this office.

JS:RHP/cd

cc: Robert Coffman, Environmental Surveillance and Control Services, Wyoming
Department of Health and Social Services, State Office Building West,
Cheyenne, Wyoming 82002

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cody Meat Service Processing Plant

ARCHITECT OR ENGINEER: George W. Tresler, P.E.
Box 1050
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-22R

REVIEWING ENGINEER: Jake Strohmman, Robert Fincher, P.E.

DATE OF REVIEW: May 15, 1975

ACTION: Construction authorized. (See compliance items.)

COMMENTS:

1. Water lines to be disinfected per AWWA C601-68 prior to use.
2. On sheet M-1 of specifications, subparagraph 2, letter "c", change 3.6 feet per 1000 feet to 6.7 feet per 1000 feet for minimum slope on 6 inch waste line and 10 foot per 1000 feet for 4 inch sewer line. These slopes are required to obtain self cleansing velocities.

HJS:jk

5/15/75

Enclosures

cc: William George, District Sanitarian, Worland.

Handwritten mark

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sanitary Sewerage System, Cowley, Wyoming

ARCHITECT OR ENGINEER: Mueller Engineering, Inc., Plaza Office Building A, Suite 7,
1629 Ave. D, Billings, Montana 59102, ATT: Harry A. Schmitt PE

WATER QUALITY DIVISION REFERENCE NUMBER: 75-23

REVIEWING ENGINEER: Jake Strohmman, Robert Pinther, P.E.

DATE OF REVIEW: April 1, 1975

ACTION: Approval of plans is contingent upon items listed under comments.

COMMENTS:

1. An evaluation made by this office and EPA of the facilities plan.
2. Some method of detection of chlorine leaks in storage cabinet and pump pit.
3. Forced mechanical ventilation required in pump pit.
4. Gas mask as required per "Ten State Standard Specifications".

During our telephone conversation on April 1, 1975, the topic of irrigation runoff was brought up. Would you furnish the design information used in obtaining a spray irrigated field of the size shown in your preliminary plan. Also show from your design that a resultant no irrigation runoff condition will exist. Where will runoff go if a potential does exist?

Chlorination and contact time was also mentioned in the April 1st conversation. This subject will be investigated and a decision made by this office as to what is required. In the meantime, if you should obtain an alternate solution, we would appreciate hearing from you.

HJS:jk
4/8/75

our files
Plan Reviews

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cowley Sewerage System, Cowley, Wyoming

ARCHITECT OR ENGINEER: Mueller Engineering, Inc. Plaza Office Building A, Suite 7,
1629 Ave. D, Billings, Montana 59102, ATT: Harry A. Schmitt PE

WATER QUALITY DIVISION REFERENCE NUMBER: 75-23RR - C560104

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger PE 

DATE OF REVIEW: December 12, 1975

ACTION: Construction is not authorized

COMMENTS: The following items need revisions to meet state and federal minimum requirements;

1. "Y" service connections are preferable over "T"s.
10.2.13, STD No. 2B & Bid item 104 & 105
2. Corrosion resistant manhole steps are required; Wyoming Occupational Health and Safety requires manhole steps meet the following standards;
 1. 3/4 inch diameter if steps are corrosion resistant
 2. 7 inch clearance from wall
 3. Steps to be 16 inches wide
 4. Twelve (12) inch spacing between steps
 5. Six inch embedment into wall or complete extension into the manhole wall.
3. Recommend precast manhole joints be sealed with bituminous base seal in place of mortar.
4. AC and ABS pipe shall have tighter bedding specifications as relayed by telephone.
5. Final alignment check required.

LAMPING

The Contractor shall provide all required assistance to the Engineer for lamping each section of sewer constructed. A light source at one end of a test section should be observed at the other end as nearly a full circle of light. The ability to see only segments, ovals, or reflections indicates serious misalignment or collapse of the sewer and shall be immediately remedied by the Contractor.

6. Water line crossings on page SSS-7
ideal condition:

Bottom of water line over 18" above top of sewerline any other situation requires the sewer pipe to be encased as detailed in 10.2.16.

7. On page SSS-9, a paragraph mentions well compacted impermeous soil to be used in the lagoons. There is no mention of specifications or where this material is to be obtained if it is on site. Need clarification.
8. Signs should be placed on all four (4) sides of lagoon.
9. All equipment or material that are called by a manufacturers name require three manufactures names with the statement "or approval equal".
10. DEQ feels that chlorination is not required on this facility. There is no domestic housing in the immediate area nor is there a discharge.
11. In our telephone conversation the fact that water may be supplemented into the third cell from a ditch. This inlet should be at an elevation such that the cell will not over flow out this inlet when the cell is filled. This inlet structure should probably be designed at this time.
12. A EPA package for bid requirements etc. has been sent from EPA to your office.

Should any questions arise, do not hesitate to call us.

Best

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Westwood Mobile Home Court, Goshen County, Wyoming
Owner: William F. Werkele, 4732 Greybull, Cheyenne, Wyoming 82001

ARCHITECT OR ENGINEER: Dall B. Saxton, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-24

REVIEWING ENGINEER: Jake Strohman, Frank Harman, P.E.

DATE OF REVIEW: April 1, 1975

ACTION: Construction is authorized contingent on following conditions listed under comments.

COMMENTS:

- Non-wood type of sewer riser plug type to be installed when riser is not in use.
- Material specifications stating no rocks or hard foreign material of 1½" diameter within 6" of sewer or waterline. Sewer and water trench backfill to be compacted to prevent holes left by settlement.
- Yield of well furnished to this office prior to construction of lots 9 thru 26.
- Two sets of plans and specifications sent to Environmental Surveillance and Control for remainder of plan review.

HJS:jk
4/8/75

cc: Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING--WEST
Cheyenne, WY 82002

1. PROJECT: West wood Mobile Home Court, Goshen County, Wyoming
owners: William F. Werkele, 4732 Graybull, Cheyenne, Wyo. 82001
2. ARCHITECT OR ENGINEER: Dall B. Saxton, P. E.
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S75-59 (75-24)
4. REVIEWED BY: M. D. Crawford, MSPH, District Sanitarian, Gillette, D. O.
5. DATE OF REVIEW: 5/19/75
6. ACTION: Approved
7. COMMENTS:

Plans returned to owner.

CC. Water Quality Division, State Office Building West, Cheyenne
R. L. Coffman, MPH, Director Environmental Surveillance & Control
Cheyenne



Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water Line - North Shore Road
Buffalo Bill State Park, Cody, Wyoming

ARCHITECT OR ENGINEER: C.W. Yannacoene, P.E. Wyoming Recreation Co.
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-25R

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

DATE OF REVIEW: July 11, 1975

ACTION: Construction authorized.

COMMENTS:

JS/lav
July 25, 1975

Koch

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **City of Cheyenne Water and Sewer Line Alterations**

ARCHITECT OR ENGINEER: **J. T. Banner and Associates Attn: Victor Anderson**
309 South 4th Street
Laramie, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: **75-26**

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

DATE OF REVIEW: **4-9-75**

ACTION: **Authorized For Construction**

COMMENTS:

cc: Ray Sherard, Superintendent, Public Utilities, Cheyenne.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stansbury Coal Project, Rock Springs, (Temporary Septic Tank)

ARCHITECT OR ENGINEER: David P. Miller, Reg. No. 133

WATER QUALITY DIVISION REFERENCE NUMBER: 75-29R

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

DATE OF REVIEW: May 13, 1975

ACTION: Authorized for construction.

COMMENTS:

WLG:jk
5/22/75

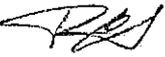
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Dixon Addition, Town of Buffalo

ARCHITECT OR ENGINEER: Jerome Mark, P.E.
363 West Loucks Street
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 75-31

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

DATE OF REVIEW: April 28, 1975

ACTION: Construction authorized.

COMMENTS:

1. See attached letter of certification indicating compliance with Wyoming standards.
2. Due to the fact that 6" sewer lines are proposed, considerable engineering analysis for hydraulic adequacy is a suggested prerequisite for any extension of this system.

PCS:jk
4/29/75
Attachment

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Schneider Subdivision Mobile Home Court, Park County, Wyoming
Owner - Steve Duroche, General Delivery, Cody, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, ATTENTION LLOYD E. Jager, Box 1539,
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-27

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: April 7, 1975

ACTION: Plans would not be approved for construction. The following items will have to be corrected.

COMMENTS:

1. Stop and drain valves are not acceptable (two valves, one curb stop and a drain valve are acceptable or a curb stop and compressed air connection between curb valve and water riser to blow water out of line).
2. 8" is minimum diameter sewer line for subdivisions but it has been the policy of this Department to allow 6" lines in small trailer parks.
3. Manholes are required at three locations; end of lines (2 places) and junctions (1 place). Send detail of manholes (42 inch minimum diameter, water tight, slope through manhole to conform with existing sewers, etc.), cleanouts are not acceptable.
4. Septic tank should have a minimum volume of 2500 gallons (750 gallon first unit and an additional 350 gallon for each additional unit). 1000 gallon capacity does not meet the size required for two units.

It has been the policy of this Department to discourage the use of seepage pits in locations where wells are also in use. Seepage pits shall never be used where there is a likelihood of underground water contamination. At this time, not enough information has been supplied to determine the feasibility of allowing use of seepage pits.

The following information is also needed to complete analysis and evaluation of sewer and water systems:

Sewer

- Minimum and maximum depth of sewer line;
- Detail of water sewer line crossover;
- Diameter of leaching tanks;
- Depth of ground water;
- What is horizontal and vertical distance from seepage pit to Shoshone River.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Schneider Subdivision Mobile Home Court, Park County, Wyoming
Owner: Steve Duroche, General Delivery, Cody, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, ATT: Lloyd E. Jager,
Box 1539, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 75-27

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: April 7, 1975

ACTION: Plans would not be approved for construction. The following items will have to be corrected.

COMMENTS: (con't)

Water

- Depth of well;
- Show exact location of well or wells;
- Yield of well or wells;
- Pump or pump characteristics;
- Actual well output in gallons per minute;
- Storage capacity (pressure tank or tanks);
- Show a detail of well construction (give all pertinent information using "Minimum Standards for Private or Semi-Public Water Supplies" (copy enclosed) pages 10 thru 28 as guidelines;
- Detail of well house if applicable;
- Disinfection procedure for water system prior to use;
- Show location of all water wells within ½ mile of seepage pits.

A compliance schedule on items 1 thru 4 is required at this time in addition to the above listed required information.

HJS:jk

4/9/75

Enclosure

cc: Steve Duroche, Cody, Wyoming
Park County Commissioner, Cody, Wyoming
Robert Coffman, Director, Environmental Surveillance & Control, DHSS, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Sewage Collection System Improvements, Casper, Wyoming.**

ARCHITECT OR ENGINEER: **Sigma Engineering ATTN: Robert Streeter II**
Box 2354
Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: **75-30**

REVIEWING ENGINEER: **Jack Strohman, Robert Pinther, P.E.**

DATE OF REVIEW: **April 22, 1975**

ACTION: **Construction is authorized.**

COMMENTS:

HJS:jk

4/23/75

cc: Nix Anderson, Casper-Natrona County Health Department, Casper.

6

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Scrup Addition (Mobile Home Park)
Ned and Glanda Scrup, Gillette, Wyoming

ARCHITECT OR ENGINEER: Alvaro F. Scrup, P.E.
700 West 4th St., Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-33

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

DATE OF REVIEW: April 16, 1975

ACTION: Construction not Authorized

COMMENTS:

Enclosed is an outline of required information needed to analyze the sewer and water system you have proposed. With the information already furnished, we can make the following comments:

1. In "typical lot layout", install sewer riser under trailer at a minimum horizontal separation of ten feet. (Show horizontal separation dimension between sewer and water risers)
2. Connect the end of water main lines at south end of the project to make a complete loop.
3. Show well location.
4. Show details of all leach fields per outline.
5. Show all details of water riser. How is this riser frost proof? An illustration of an approved hydrant and it's operation is included.

In general plans should contain all applicable requirements of outline. If any further information is required, we are available at the above address and phone number.

HJS/lav

April 24, 1975

cc: Robert Coffman, Environmental Surveillance and Control, WQSS, Cheyenne, Wyo.

Brook

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stroup Addition Mobile Home Park, Gillette, WY
Owner: Ned and Glenda Stroup

ARCHITECT OR ENGINEER: Alonzo F. Stroup, P.E., 700 West 4th Street, Gillette, WY. 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-33R

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

DATE OF REVIEW: July 21, 1975

ACTION: Construction is not authorized.

COMMENTS: An addendum to plans and specifications containing the following information is required:

1. Drain from well vault is to terminate to daylight, 4 inches above ground surface, standing water or runoff water whichever is higher. An alternate method is a sump pump in bottom of vault. Slope floor of vault to drain.
2. What is the location of ground water at leach field location?
3. Water storage tank is to have lock for vandalism protection.
4. Is water storage tank below or above ground? Is it protected against freezing?
5. Leach bed should have washed gravel if gravel is used. All material should be retained on 1/2 or 3/4 inch screen.
6. Ensure sewer line for lot 30 is 50 feet from well.
7. Water line is to have 25 foot horizontal separation from leach field.
8. Water lines are to be pressure tested 1 1/2 times working pressure.
9. Recommend that the divider in septic tank be 2/3 the distance towards the outlet of the tank.
10. Divider wall of septic tank should extend to top of tank.
11. With present water supply and storage tank of 2000 gallons, peak demand for 30 mobile homes would be of such a quantity that supply plus storage would last for approximately 40 minutes. This system should work satisfactorily for your proposed project. When the last ten trailers are put on the system, we would recommend that you look into installing a larger storage tank.

HJS:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stroup Addition Mobile Home Park, Gillette, Wyoming
Owner: Ned and Glenda Stroup

ARCHITECT OR ENGINEER: Alonzo F. Stroup, P.E., 700 West 4th Street, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 75-33RR

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

DATE OF REVIEW: September 3, 1975

ACTION: Construction authorized.

COMMENTS:

REP:jk
9/4/75

cc: Robert Coffman, Environmental Surveillance and Control, Cheyenne
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

PROJECT: Cedar Ridge Subdivision, Thermopolis, Wyoming
Cedar Ridge Development Co., P. O. Box 311, Thermopolis, Wyoming 82443

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E., Tudor Engineering Company,
516 East Main, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-34

REVIEWING ENGINEER: Jake Strohman, Robert Pinther, P.E.

DATE OF REVIEW: April 14, 1975

ACTION: Construction is not authorized pending compliance with items listed
under comments.

COMMENTS:

1. Water proof sealing compound is to be used between prefab manhole joints during installation.
2. Water-sewer line crossovers to meet specifications of attached sheet. Show a typical crossover section on plans or put a detailed description in specifications.
3. Plans to have seal or signature of Wyoming licensed designing engineer per State laws governing engineering practise.
4. Submit a letter of verification from city of Thermopolis stating that their wastewater treatment facility is capable of handling the added organic and hydraulic load and that their water supply system is capable of supplying 100 gallon per day per capita at a minimum pressure of 20 psi under all flow conditions of flow demand. (Use 3.5 capita per single family residence as design criteria.)

HJS:jk
4/17/75

cc: Cedar Ridge Development Co., Thermopolis, Wyoming.

Enclosure

2001

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cedar Ridge Subdivision, Thermopolis, Wyoming
Cedar Ridge Development Co., P.O. Box 311, Thermopolis, Wyoming 82443

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-34R and 75-34RR

REVIEWING ENGINEER: *Robert Pinther*
Robert Pinther, P.E., Jake Strohman

DATE OF REVIEW: July 2, 1975

ACTION: Construction authorized.

COMMENTS:

This review covers the plans consisting of 7 sheets and received on June 16, and the specifications with revisions to Section 2-6 and the addition of Section 2-7.

1. As per our conference by phone on this date with Mr. Crews it is our understanding that:
 - a. The word "should" will be replaced by "shall" where it appears in Section 2-7 of the specifications;
 - b. Plans and specifications covering a proposed one horsepower booster pump with suction header low pressure cut off will be submitted to this Division for review prior to start of construction.
2. In accordance with AWWA Specification C601-68, "Disinfecting Water Mains", at the end of the 24 hour disinfecting period the water in the mains shall contain no less than 25 mg/liter chlorine throughout the length of the mains.
3. Specify a minimum earth cover over the water mains.
4. It is recommended that: (a) no length of pipe greater than 1000 feet be left without valve control.
Note: Ordinarily, not more than two valves are placed at a tee.

RHP/lav
July 28, 1975

cc: William 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: University Stock Farm Sewage Collection System, Laramie, Wyoming

ARCHITECT OR ENGINEER: Robert G. Arnold, P.E., Division of Physical Plant,
University of Wyoming, Laramie, Wyoming 82701.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-35

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

DATE OF REVIEW: May 15, 1975

ACTION: Construction is not authorized.

COMMENTS:

Plans or specifications will have to incorporate (an addendum is sufficient) minimum standards for vertical and horizontal separation of sewer and water lines. See enclosure for minimum standards.

HJS:jk
5/15/75

cc: Phillip Inghes, District Sanitarian, Green River.

7

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Mountainaire Subdivision
Sweetwater County**

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

WATER QUALITY DIVISION REFERENCE NUMBER: **75-36**

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

DATE OF REVIEW: **April 16, 1975**

ACTION: **Construction not Authorized**

COMMENTS:

The following information is required in order to complete evaluation of wastewater treatment system.

1. Profile of sewer line
2. Minimum dimension of 2" gravel above drainfield line.
3. Mound backfill 2" to 6" above natural ground on top of leach trench to prevent settling and resultant runoff water from percolating into trench.

Although there is no set maximum depth to installing a leaching field pipe other than 4 feet above ground water table or 4 feet above an impervious soil layer, the general practice is to install leach field pipe at a maximum depth of 3 feet. Any depth greater than 3 feet greatly decreases the amount of evaporation and thus causes almost 100% effluent percolation. Under normal use, a leach field at 3 feet depth will not freeze in your area.

HJS/lav

April 22, 1975

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

1.000

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Mountaineire Subdivision Lots 7 & 8 of Block 4
Sweetwater County**

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

WATER QUALITY DIVISION REFERENCE NUMBER: **75-36R**

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

DATE OF REVIEW: **May 12, 1975**

ACTION: **Construction is Authorized**

COMMENTS:

The policy of this department is to allow four inch sewer line for a single family residence only. Hydraulically the four inch line can carry your water load easily but you may have a problem with solids of your raw sewage. We strongly recommend installation of a 6 inch sewage line at least from the second building on the collection line to the septic tank.

cc: Phil Hughes

Back

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mountaineer Subdivision and Section Septic Tank and Leach Field for
Jehovah Witnesses, Kingdom Hall, Lot 13, Block 3

ARCHITECT OR ENGINEER: Wayne Johnson, P.E., Box 1633, Rock Springs, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-36RR

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

DATE OF REVIEW: June 24, 1975

ACTION: Construction authorized.

COMMENTS:

Recommend inlet and outlet pipe of septic tank be constructed of cast iron for a short distance for strength. Trench backfill specifications for installation of 6 inch P.V.C. pipe to septic tank should be included.

HJS:jk

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

Recd.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Allendale Sewer Project, Casper, Wyoming.

ARCHITECT OR ENGINEER: Russell L. Donley, 2111 E. 2nd Street, Casper,
Wyoming 82601.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-37

REVIEWING ENGINEER: Jake Strohman, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: April 22, 1975

ACTION: Construction is authorized.

COMMENTS:

1. Specify sealing compound to be used between prefab manhole joints.
2. On page 4 of 7 of additional specifications, change "13 feet" dimension in paragraph D to read "20 feet".

HJS:jk
4/25/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

Rock

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Clearview Acres Sewer Treatment Expansion, Box 1540, Rock Springs,
Wyoming.

ARCHITECT OR ENGINEER: None listed.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-38

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

DATE OF REVIEW: April 23, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Wyoming licensed engineer's seal of signature is required on plans and specifications.
2. A detail of outlet structure for lagoon is required.
3. We would recommend that you obtain drainage easements from all landowners of land that effluent crosses enroute to Bitter Creek to avoid any legal repercussions. This Department's responsibility is to obtain water quality for State waters and therefore water course easement is not our concern. This was mentioned for your benefit since the effluent leaving your lagoon is not natural drainage and landowners over which effluent passes may legally be able to make you cease this discharge.
4. The aerated lagoon retention time that is required to obtain the parameters that you will have to meet on your discharge permit was calculated by us. This time was found to be a substantial amount longer than the 15 days computed by Case Cotter, Inc. Our calculation would lower the service connections allowable. This calculation is really just a guideline. The controlling factor is you will be required to meet the BOD₅, Suspended Solids, and Fecal Coliform parameters of your discharge permit.

We strongly recommend that you connect with Rock Springs when their new sewage treatment and collection system is built. The federal government is financing 75% of the bill for this project.

Compliance with items 1 and 2 will be sufficient to get authorization to construct.

HJS:jk
4/25/75

cc: Phillip 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: **Clearview Acres, Box 1540, Rock Springs, Wyoming 82901
Sewage Treatment Facility Modification**

ARCHITECT OR ENGINEER: **David P. Miller, P.E.**

WATER QUALITY DIVISION REFERENCE NUMBER: **75-38R**

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

DATE OF REVIEW: **May 12, 1975**

ACTION: **Construction Authorized**

COMMENTS:

cc: **Phil Hughes**

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Souix Truck Stop Sewer System, South of Sheridan.

ARCHITECT OR ENGINEER: Walter J. Pilch, P.E., Box 6498, Sheridan, Wyoming 82801.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-39

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

DATE OF REVIEW: April 23, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Recommend the 4 ends of leach field perforated pipe be inter connected.
2. Recommend a long solid header pipe be used to distribute flow in leach field in place of distribution box. Distribution boxes have a tendency to settle and shift causing uneven flow distribution. Send detail of distribution box if you decide to retain this method.
3. In order to evaluate the complete system, the following information is required:
 1. Slope and depth of sewer line from cafe and service station to septic tank.
 2. Size of sewer line at location listed in 1.
 3. Typical section through septic tanks showing inlet, outlet, size dimensions and access(es).
 4. Backfill requirements under and around septic tank.

HJS:jk

4/25/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: **Scenic Truck Stop Sewer System, South of Sheridan.**

ARCHITECT OR ENGINEER: **Walter J. Filch, P.E.**
Box 6495
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: **75-392**

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

DATE OF REVIEW: **May 6, 1975**

ACTION: **Authorized for Construction.**

COMMENTS:

FRE:jk
5/7/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sewage Treatment Works, Community Center, Crowheart, Wyoming.

ARCHITECT OR ENGINEER: Mr. Harold Engstrom, Continental Terrace West, Suite 470 - 2701
Alcott, Denver, Colorado 80211.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-40

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

DATE OF REVIEW: April 21, 1975

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

- COMMENTS:
1. Submit reasons for the proposal to install a mechanical sewage treatment plant rather than a septic tank and leaching field. NOTE: Except where necessary to protect the environment this Department does not recommend the installation of mechanical sewage treatments which are often improperly operated or neglected entirely.
 2. A sewage treatment plant necessitates that the following requirements be fulfilled by the owner of the facility:
 - a. obtain a trained sewage treatment plant operator who is certified by the State of Wyoming;
 - b. obtain a sewage treatment plant waste discharge permit if the plant discharges in the ground surface or to a lake or stream;
 - c. test the sewage treatment plant effluent regularly and report the results to the State.
 3. Locate all parts of the sewerage system as far as practical from, and preferably, down grade from the well. NOTE: The minimum separation between the well and buried sewer lines as well as buried tanks containing sewage is 50 feet. Sewage leaching trenches and drainfield are required to be located at least 100 feet from the well.
 4. Submit engineering drawings covering any proposed changes to the water system for this facility.
 5. All plans covering water and sewerage system changes and improvements shall be in accordance with the "Ten State Standards" for water and/or sewage works.

RHP:jk
4/25/75

cc: Harold Engstrom, AIA, Casper, Wyoming.
Stone Environmental Engineering Services, Inc., Wheatridge, Colorado.
Indian Health Service, Billings, Montana.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sewage Treatment Works, Community Center, Crowheart, Wyoming for Shoshone Indian Tribe, Fort Washakie, Wyoming.

ARCHITECT OR ENGINEER: Mr. Harold Engstrom, Continental Terrace West, Suite 470, 2701 Alcott, Denver, Colorado 80211

WATER QUALITY DIVISION REFERENCE NUMBER: 75-40R

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

DATE OF REVIEW: June 4, 1975

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

COMMENTS:

1. It is recommended that further consideration be given to the feasibility of disposing of this sanitary waste by means of a septic tank and soil absorption system.
2. Before further consideration is given to providing a mechanical sewage treatment plant the owner of the proposed facility shall be notified of, and agree to comply with the following requirements:
 - a. Obtain a trained sewage treatment plant operator who is certified by the State of Wyoming;
 - b. Obtain a sewage treatment plant wastewater discharge permit if the plant discharges or might discharge to a lake, stream, drainage ditch or other surface body of water, or waterway.
 - c. Test the sewage treatment plant effluent regularly as required by the discharge permit and report the results to the State and the U.S. Environmental Protection Agency.
3. No buried sewer pipe as sewage effluent pipe shall be located within 50 feet of the well.
4. Submit a complete description of the treated sewage outfall and/or disposal facility.

Note: 1. Adequate disinfection including a minimum 15 minute chlorine contact chamber is required for effluent prior to discharge to the surface of the ground, or any ditch or waterway.
2. Any effluent soil absorption system employed shall be located and constructed in compliance with the enclosed bulletin of the Wyoming Department of Health and Social Services entitled, "Minimum Standards for Private Sewage Disposal Systems".
5. Submit engineering drawings covering all details of the sewerage system for this facility.
6. Locate the well as far as practical and upgrade from all parts of the sewerage system.

Note: Minimum allowable distances from the well are 50 feet for buried sewer lines and water tight tanks containing sewage and 100 feet for sewage leaching trenches and drainfields.
7. Submit engineering drawings covering all detail of the water system for this facility.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT:

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 75-40R

REVIEWING ENGINEER:

DATE OF REVIEW:

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

COMMENTS:

RHP:jk
6/4/75

cc: Harold Engstrom, AIA, Casper, Wyoming.
Stone Environmental Engineering Services, Inc., Wheatridge, Colorado.
Economic Development Administration, Denver, Colorado.
Ben Lewis, Indian Health Service, Field Engineer, Fort Washakie, Wyoming.
Shoshone Tribal Council, ATTN: Charman, Health Board, Fort Washakie, Wyoming.
Robert G. Raymond, P.E., Area Sanitation Facilities Construction Officer,
Public Health Service, Billings, Montana.
Mr. Warren Buck Elk, BIA, Fort Washakie, Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Gillette, Donkey Creek Interceptor Sewer

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-41

REVIEWING ENGINEER: Roy E. Prior, E.I.T., Paul C. Schwieger, P.E.

DATE OF REVIEW: May 23, 1975

ACTION: Permit to construct

COMMENTS:

None

REP:jk
5/27/75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Gillette, Improvement District #25

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

WATER QUALITY DIVISION REFERENCE NUMBER: 75-42

REVIEWING ENGINEER: Roy E. Prior, E.I.T., Paul C. Schwieger, P.E.

DATE OF REVIEW: May 23, 1975

ACTION: Permit to construct

COMMENTS:

Disinfection should be by current AWWA publications.

REP:jk
5/27/75

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

1. PROJECT: Wyoming Trunk Lines
Hilledale and I-80
Woody's Truck Stop, Inc.
President: E.A. Strickland
821 N. 15 Street
Cheyenne, Wyoming 82001
2. ARCHITECT OR ENGINEER: Robert E. Carpenter,
P.E.
Woody's Truck Stop, Inc.
President: E.A. Strickland
821 N. 15 Street
Cheyenne, Wyoming 82001
3. SANITARY ENGINEERING SERVICES REF. NO.: 75-43
4. REVIEWING ENGINEER: Jake Stronman
5. DATE OF REVIEW: April 29, 1975
6. ACTION: Construction is Authorized
See Compliance items
7. COMMENTS:
 - 1) 6" sewer lines to septic tanks
 - 2) .67 ft. per 100 ft. slope
 - 3) Maximum slope in drain field is 6" per 100 ft.

cc: Coffman
San Pack- Laramie County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

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

*This has been completely
abandoned by owner.
Refer to all work coming
to 5/12/75 CD*

PROJECT: Rudy's Camper Court, Riverton, Wyoming

ARCHITECT OR ENGINEER: Gerald B. Crews, Tudor Engineering, 516 E. Main,
Riverton, Wyoming.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-44

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

DATE OF REVIEW: May 12, 1975

ACTION: Construction is not authorized

COMMENTS:

Following items will have to be incorporated into plans:

1. Profile of sewage lines showing natural ground, slope of lines, manholes and elevations;
2. Manholes to have 42 inch minimum diameter;
3. What "water info" is going to be put on the sign at the sanitary station;
4. On note 4, state water lines to be "NSF" approved;
5. State backfill requirements for trenches;
6. Sewer and water risers to be 4 inches minimum above ground surface, surface water or flood water, whichever is the highest elevation. What is the 90° bend on the sewer riser for;
7. Give disinfection procedure for water lines prior to use;
8. Show detail of water-sewer line crossovers, or statement that water line will be a minimum of 18" above sewer line, (bottom of water line to top of sewer).
9. Valid engineering license required.

cc: William George, District Sanitarian, Worland

HJS:jk
5/15/75

REVIEW OF PLANS AND SPECIFICATIONS

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

*This plan has
been completely abandoned
by owner 7/22/75*

PROJECT: Rudy's Camper Court Owner: Rudy Willenbreck
622 East Lincoln Ave.
Riverton, Wyoming 82501

ARCHITECT OR ENGINEER: Tudor Engineering Company, 516 East Main, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 75-44R

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

DATE OF REVIEW: June 5, 1975.

ACTION: Construction authorized. (See mandatory compliance items 1 thru 4.)

COMMENTS:

1. Water lines are to be disinfected per current edition of AWWA C601-68 specifications. (copy enclosed to owner)
2. Water lines to be pressure tested before burial.
3. The water crossing detail is correct for all conditions where sewer line passes over water main. Normal installation is to install water line above sewer line a minimum of 18 inches from top of sewer line to bottom of water line. Any other installation will have to be installed per plan water line crossing detail. Note: 5 on sheet 3 is incorrect in that it does not note the water line should be the required 18 inches above sewer.
4. Manholes for change in direction to have channel formed with uniform maximum allowable radius for the bend.
5. Recommend valves be installed in appropriate locations on water distribution system to prevent a line break or maintenance of causing total park to be without water.

Two sets of plans forwarded to Environmental Surveillance and Control for their portion of the review.

HJS:jk
6/17/75

cc: Bill George, District Sanitarian, Worland, WY.
Robert Coffman, Environmental Surveillance and Control, DHSS, Cheyenne, WY.
Rudy Willenbreck, Owner, Riverton, WY.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING
Cheyenne, WY 82001

1. PROJECT: Rudy's Camper Court Extension, Riverton, Wyoming
2. ARCHITECT OR ENGINEER: None: Submitted by Owner
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S75-95 WDEQ 75-44R
4. REVIEWED BY: William P. George, MSEH, District II Sanitarian *WPG*
5. DATE OF REVIEW: July 21, 1975
6. ACTION: Plans Abandoned
7. COMMENTS:

Plans returned to owner.

RECEIVED

RECEIVED
JUL 29 1975

DHHS
Environmental Surveillance & Control
CHEYENNE, WYOMING

✓ Copy to WDEQ 7/24/75

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sixth Street and Elk Street, Sewer and Water Extension, Town of Glenrock.

ARCHITECT OR ENGINEER: John A. Lambert, P.E.
P. O. Box 34
Douglas, Wyoming 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 75-45

REVIEWING ENGINEER: Jake Strohman, Arthur E. Williamson, M.S., P.E.

DATE OF REVIEW: April 29, 1975

ACTION: Construction is authorized. See compliance items.

COMMENTS:

1. Manholes to be made watertight by waterproof sealing compound of prefab joints and connections to manhole.

HJS:jk
4/29/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming.

75-46 - "Not authorized" by [unclear] 5-13-75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rawhide Mine, Carter Oil Company, P. O. Box 209, Gillette, Wyoming 82716

ARCHITECT OR ENGINEER: H. K. Ferguson Co.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-46R

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

DATE OF REVIEW: May 20, 1975

ACTION: Construction is not authorized.

COMMENTS:

1. Ten feet horizontal spacing required between potable water and any other water or sewer lines.
2. Give a typical detail or specifications for potable water lines crossing sewer or any water line that is not potable.
3. Blowoff valve or flushing hydrant required on the ends of all water mains. (Give details)
4. Disinfection procedure for potable water storage tank and all potable water lines. (AWWA C601-68 or current publication.)
5. Section of potable water storage tank giving all pertinent details, (i.e. overflows, accesses, freeze protection, etc.). Show section illustrating piping from well to potable water storage and all cross connections with plant and fire water.
6. Normal practice is to install pipe in leach trench to a minimum depth of 18 inches and a maximum depth of 3 feet. (Any depth over 3 feet will cause effluent to be dissipated by percolation only.)
7. Backfill requirements of trenches required.
8. Mound backfill over leach trench 4" to 6" to prevent settling from causing runoff and surface water to percolate through leach trench.
9. Is well located in utilities building? Show a typical section showing drain and where drain terminates. Show a detail of sanitary seal to be installed on top of the well casing.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rawhide Mine, Carter Oil Company, P. O. Box 209, Gillette, Wyoming 82716

ARCHITECT OR ENGINEER: H. K. Ferguson Co.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-46R

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

DATE OF REVIEW: May 20, 1975

ACTION: Construction is not authorized.

COMMENTS:

10. Furnish results of your percolation tests for determination of leach field size at all three locations plus your estimated quantity of flow to each septic tank and how this volume was determined. Need a typical trench section for the leach fields other than temporary office building.
11. What are your plans of disposal for waste from settling ramp?
12. Furnish a section of outfall from sewage lagoon and settling pond.
13. Furnish a typical detail of manholes. Also a typical section of distribution manhole preceding lagoon.
14. Furnish information used in determining 5775 gpd flow to sewage lagoons. Will workers shower at the mine? Aerated lagoon design is adequate for 5775 gpd.
15. Furnish exact location of mine. (Range, township, etc.)
16. Plans to be signed by a Wyoming licensed engineer.

HJS:jk
5/22/75

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Carter Mining Company, P. O. Box 209, Gillette, WY 82716

ARCHITECT OR ENGINEER: H. K. Ferguson Co.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-46RR

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

DATE OF REVIEW: September 29, 1975

ACTION: Authorized for construction.

COMMENTS:

REP:jk

cc: Malcolm Crawford, District Sanitarian, Gillette, WY

Department of Planning and Development, City of Gillette, Campbell County, WY

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: LDS Church Building, Farson, Wyoming

ARCHITECT OR ENGINEER: None required - individual treatment system ~~plans~~ submitted
by Don McClellan, Styl Homes Inc., P. O. Box 353, Riverton,
Wyoming 82501.

WATER QUALITY DIVISION REFERENCE NUMBER: 75-49

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

DATE OF REVIEW: May 6, 1975

ACTION: Authorized for Construction.

COMMENTS:

PCS:jk
5/7/75

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Grandview Village #1 Mobile Home Park, Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Albert I. Gabardi, P.E.
Doran Hunt Co., 562 N. Main St., Toole, Utah

WATER QUALITY DIVISION REFERENCE NUMBER: 75-50

REVIEWING ENGINEER: Jake Sirohman, Paul Schwieger, P.E. *[Signature]*

DATE OF REVIEW: July 24, 1975

ACTION: Construction authorized.

COMMENTS:

Plan and specifications for water tank to be furnished prior to second phase of construction as outlined in letter dated July 24, 1975.

HJS:jk

cc: Steve Young

Phillip Hughes, District Sanitarian, Green River, WY

R. Coffman