

Legend

PUBLIC UTILITIES

| <u>Column Number</u> | <u>Code</u> | <u>Description</u> |
|----------------------|-------------|---|
| (1) | * | Indicates a project not previously shown in the CIP |
| (3) | A | Urgent |
| | B | Necessary |
| | C | Desirable |
| (4 & 7) | AA | Urban Area Projects |
| | AF | Athletic Fees |
| | BR | Bridge Replacement |
| | CD | Community Development Block Grant |
| | CF | Community Improvement Financing |
| | CO | Lancaster County |
| | DC | Developer Contribution |
| | FA | Federal Aids |
| | GF | Golf Capital Improvements |
| | GO | G.O. Bonds |
| | GR | General Revenues |
| | KF | Keno Funds |
| | LF | Landfill Revenues |
| | MF | Municipal Infrastructure Redevelopment Fund |
| | NE | State Revenue or Aid |
| | NH | National Highway System |
| | OF | Other Financing |
| | PB | Transportation Enhancement |
| | PP | STPP - Hazard Elimination |
| | RB | Revenue Bonds |
| | RT | Railroad Transportation Safety District |
| | S9 | Section 9 |
| | SC | Service Charges |
| | SF | State/Federal Funds |
| | SO | Highway Allocation Funds |
| | SR | Special Reserves |
| | TF | Tennis Fees |
| | TM | State - Train Mile Tax |
| | UF | User Fees |
| | UK | Unknown |
| | UR | Utility Revenues |
| | WR | City Residual Wheel Tax |
| | WC | City Wheel Tax New Construction |
| (9) | ICWP | In Conformance with the Plan |
| | GCP | Generally Conforms with the Plan |
| | NIP | Not Included in the Plan |
| | NICP | Not in Conformance with the Plan |
| (10) | 0 | Plans not needed |
| | 1 | Nothing done except this report |
| | 2 | Preliminary estimate received |
| | 3 | Surveys completed |
| | 4 | Work on plans scheduled |
| | 5 | Sketch plans in preparation |
| | 6 | Sketch plans completed |
| | 7 | Detail plans in preparation |
| | 8 | Detail plans completed |

Project Summary and Justification

Department **Public Works and Utilities**

Division **Water**

Project 1 General System Improvements

- A. Data Link to Ashland
To develop connection via microwave between City-Wide Area Network and Ashland Facilities.
- B. Facilities Master Plan
To develop a comprehensive master plan for supply, treatment, transmission, and distribution facilities to accommodate city growth.
- C. Preliminary Design & Engineering Support
Provide design and review of unanticipated water projects.

Project 2 Water Supply: Wells, Treatment, and Transmission

- A. Well Replacement - Ashland
To replace existing wells in Ashland Wellfield to maintain current capacity as wells become obsolete.
- B. Control System Upgrade - Ashland
To replace existing supervisory control and Data Acquisition System (SCADA) which electronically controls the water operations for the entire system from Ashland.
- C. Transmission Pump #13 - Ashland
To provide necessary water transmission capacity to move treated water from Ashland to Lincoln.
- D. Wellfield Modifications
Replace several large critical valves in wellfield collection system.

Project 3 Storage Reservoirs

- A. Floating Storage Reservoir (10 MG) - 84th & Yankee Hill Road
To increase the water pressure and reliability of the Southeast pressure system and provide additional elevated storage and fire protection in Southeast pressure system; and supply water to the south end of the high duty pressure system; and provide for future Cheney Booster supply storage.
- B. Reservoir Painting - Air Park - Belmont
Repainting of steel reservoirs is required every 15 to 20 years.
- C. Reservoir Painting - 84th & South - SE
Repainting of steel reservoirs is required every 15 to 20 years.
- D. Reservoir Painting - 84th & Pine Lake Road; 26th & Merrill
Repainting of steel reservoirs is required every 15 to 20 years.

Project 4 Pump Stations

- A. 51st Street Pump Station Modifications
To modify pumping and upgrade existing electrical systems to provide for the transfer of additional water from Ashland to A Street Pumping Station.
- B. Replace Pump at Northeast Pump Station - 102th & Alvo
Pumps are being replaced to increase the volume of transfer from pumping stations to meet the growth needs of the city.

Project Summary and Justification (cont.)

- C. Southeast Pump Station Modifications - 84th & South Streets
Pumps are being replaced to increase the volume of transfer from pumping stations to meet the growth needs of the city.
- D. Belmont Pump Station Modifications - 14th & Superior
Pumps are being replaced to increase the volume of transfer from pumping stations to meet the growth needs of the city.
- E. Northwest Pump Station - Northwest 12th & Alvo Road
The Northwest Pump Station will provide a new pressure system; Belmont Booster System to meet the growth needs in the Northwest part of the city.

Project 5 Major Transmission & Distribution Mains

- A. 48" Main from 77th & Vine Street to 84th & Yankee Hill Road Reservoir
Major transmission mains provide for the transfer of water between pressure systems.
- B. 36" Main from 102nd & Alvo Road to Northwest 12th & Alvo Road
Major transmission mains provide for the transfer of water between pressure systems.

Project 6 Selected Replacement of Water Facilities or Mains

Selected Replacement of Water Facilities or Mains such as:

- A. Adams, 41st - 43rd; 42nd & 43rd, Adams - Cleveland
- B. Otoe & Pawnee, 35th - 37th
- C. Fremont, 56th - Touzalin
- D. Dudley, 27th - 29th
- E. Cornhusker, 11th - 12th
- F. Furnas, 12th - 14th
- G. Nelson, 11th - 13th
- H. Gillan, 58th - Cotner; Cotner, R - Gillan
- I. Y, Cotner - 66th
- J. D, 40th - 44th
- K. Cleveland, 53rd - 59th; 57th, Cleveland - Adams

Provide reconstruction of water facilities and/or mains which have served beyond their useful life. Includes mains with a history of multiple breaks, mains to be replaced in conjunction with street repaving projects, and larger mains to provide improved fire flow capacity.

Project 7 Distribution Mains

- A. 24" - Yankee Hill, 20th to 27th
- B. 30" - 14th, Superior to Fletcher
- C. 24" - 84th, Vine to Holdrege
- D. 16" - Fletcher, 14th to 27th
- E. 16" - Fletcher, 77th to 82nd
- F. 16" - 17th to 1st to South
- G. 16" - Pioneers, 7th to Folsom
- H. 16" - 40th, San Mateo south 1/4 mile
- I. 24" - 56th, Union Hill Road to Yankee Hill Road
- J. 24" - Highway 34, 1st to Northwest 12th
- K. 24" - 84th, Pine Lake Road to Yankee Hill Road
- L. 30" - Yankee Hill Road, 56th to 84th
- M. 30" - Fletcher, 14th to 1st
- N. 24" - 14th, Fletcher to Alvo

Project Summary and Justification (cont.)

Distribution mains identified above will provide for either tie-in between existing water mains to increase system capacity of distribution system or to allow for the orderly development of the city in accordance with Land Use Phasing of the Comprehensive Plan.

Project 8 Distribution Main Subsidies

To provide for the construction of oversized mains in residential, commercial, and industrial area. To provide a water distribution grid system. Also, to subsidize mains in certain water districts constructed in developed residential areas, or other city projects.

*The map for the Lincoln
Water System is not
available for viewing on
the website.*

*Please contact Lincoln
Water System at 441-7511
for more information.*

List of ProjectsDepartment: **Public Works/Utilities/Water**

| Project Number | Project Title |
|-------------------|---|
| (1) | General System Improvements |
| (2) | Water Supply - Wells, Treatment, and Transmission |
| 3 | Storage Reservoirs |
| 4 | Pump Stations |
| 5 | Major Transmission Mains |
| 6 | Selected Replacement of Mains |
| 7 | Distribution Mains |
| (8) | Distribution Main Subsidies |

*Project number in parenthesis indicates project is not shown on the map.

2000 - 2006 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATER PRODUCTION & DISTRIBUTION

| (1) | (2) | (3) | 5% Inflation per year (4) | | | | | | |
|-----------|---|-------------|--|--------------|------------------------|--------------|--------------|--------------|---------|
| PROJ. NO. | PROJECT TITLE | PROJ. PRIO. | PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's) | | | | | | |
| | | | 2000-2001 FS | 2001-2002 FS | 2002-2003 FS | 2003-2004 FS | 2004-2005 FS | 2005-2006 FS | |
| 1 | General System Improvements | | | | | | | | |
| | A. Data Link to Ashland #506224 | B | | 150.0 UR | 150.0 UR | | | | |
| | B. Facilities Master Plan | B | | | | | | 250.0 UR | |
| | C. Preliminary Design & Engineering Support #506005 | A | 30.0 UR | 30.0 UR | 30.0 UR | 30.0 UR | 30.0 UR | 30.0 UR | 30.0 UR |
| 2 | Water Supply - Wells, Treatment, & Transmission | | | | | | | | |
| | A. Well Replacement - Ashland #701024 | A | 160.0 UR | | | | | 980.0 RB | |
| | B. Control System Upgrade - Ashland | B | | | | | | 600.0 UR | |
| | C. Transmission Pump #13 - Ashland | B | | | | | | 1,630.0 RB | |
| | D. Well Modifications - Ashland | B | | 200.0 UR | | | | | |
| 3 | Storage Reservoirs | | | | | | | | |
| | A. Floating Storage Reservoir (10 MG) - S E P S - 84th & Yankee Hill Road #506219 | B | | | 100.0 UR 2,000.0 RB | 2,200.0 RB | | 1,140.0 RB | |
| * | B. Reservoir Painting - Air Park | A | 400.0 UR | | | | | | |
| * | C. Reservoir Painting - 84th & South | B | | 450.0 UR | | | | | |
| * | D. Reservoir Painting - 84th & Pine Lake Road; 26th & Merrill | B | | | 450.0 UR | | | | |

| (5) | (6) | (7) | | (8) | (9) | (10) | (11) | | | | | | (1) | |
|-----------------------------|-------------------------------|----------------------------|---------|-------------------------------------|-------------------|-----------------|---|-------------|------------------|-------|-----------------|-----------------|-----------|---|
| TOTAL FOR SIX YEARS (000's) | COST BEYOND 2005-2006 (000's) | PRIOR APPROPRIATIONS | | TOTAL CAP COSTS (000's) (5)+(6)+(7) | COMP PLAN CONFORM | STATUS OF PLANS | COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's) | | | | | | PROJ. NO. | |
| | | (000's) | YEAR FS | | | | PRELIM PLANS | FINAL PLANS | LAND ACQUISITION | CONST | EQUIP / FURNISH | OTHER (EXPLAIN) | | |
| 300.0 | N/A | 120.0 | | 420.0 | GCP | 1 | | 30.0 | | | 270.0 | | | 1 |
| 250.0 | N/A | N/A | | 250.0 | GCP | 1 | 250.0 | | | | | | | |
| 180.0 | N/A | N/A | | 180.0 | GCP | 2 | 180.0 | | | | | | | |
| 1,140.0 | | 520.0 91-94 700.0 99-00 | | 2,360.0 | GCP | 1 | | | | | 1,140.0 | | | 2 |
| 600.0 | | | | 600.0 | GCP | 1 | | 60.0 | | | 540.0 | | | |
| 1,630.0 | | | | 1,630.0 | GCP | 1 | | 130.0 | | | 1,500.0 | | | |
| 200.0 | | | | 200.0 | GCP | 1 | | 20.0 | | | 180.0 | | | |
| 5,440.0 | | 80.0 94-95 116.0 97-98 | | 5,636.0 | GCP | 1 | | 440.0 | | | 5,000.0 | | | 3 |
| 400.0 | | | | | GCP | 1 | | 40.0 | | | 360.0 | | | |
| 450.0 | | | | | GCP | 1 | | 50.0 | | | 400.0 | | | |
| 450.0 | | | | | GCP | 1 | | 50.0 | | | 400.0 | | | |

2000 - 2006 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATER PRODUCTION & DISTRIBUTION

| (1) | (2) | (3) | 5% Inflation per year (4) | | | | | | |
|-----------|---|-------------|--|----------------------|--------------|--------------|--------------|--------------|------------|
| PROJ. NO. | PROJECT TITLE | PROJ. PRIO. | PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's) | | | | | | |
| | | | 2000-2001 FS | 2001-2002 FS | 2002-2003 FS | 2003-2004 FS | 2004-2005 FS | 2005-2006 FS | |
| 4 | Pump Stations | | | | | | | | |
| | A. 51st Street Pump Station Modifications #700937 | A | 3,150.0 RB | | | | | | |
| | B. Replace Pump at Northeast Pump Station - 102 & Alvo | B | | | | 770.0 UR | | | |
| | C. Southeast Pump Station Modifications - 84th & South St #700312 | A | 250.0 UR | | | | | | |
| | D. Belmont Pump Station Modifications - 14th & Superior #700313 | A | 250.0 UR | | | | | | |
| * | E. Northwest Pump Station - N.W. 12th Alvo Road | A | | 360.0 UR 150.0 DC | | | | | |
| 5 | Major Transmission Mains | | | | | | | | |
| | A. 48" - 77th & Vine to 84th and Yankee Hill Road #506220 | A | 350.0 RB 1,950.0 UR | 4,000.0 RB | 3,000.0 RB | 500.0 UR | | | |
| * | B. 36" - 102 & Alvo to NW12 & Alvo | | | | | | | | 2,920.0 RB |
| 6 | Selected Replacement of Mains such as; 700210 | A | 1,200.0 UR | 1,200.0 UR | 1,200.0 UR | 1,200.0 UR | 1,200.0 UR | 1,200.0 UR | 1,200.0 UR |
| * | A. Adams, 41st - 43rd; 42nd & 43rd, Adams - Cleveland | | | | | | | | |
| * | B. Otoe & Pawnee, 35th - 37th | | | | | | | | |
| * | C. Fremont, 56th - Touzalin | | | | | | | | |
| * | D. Dudley, 27th - 29th | | | | | | | | |
| * | E. Cornhusker, 11th - 12th | | | | | | | | |
| * | F. Furnas, 12th - 14th | | | | | | | | |
| * | G. Nelson, 11th - 13th | | | | | | | | |
| * | H. Gillan, 58th - Cotner; Cotner, "R" - Gillan | | | | | | | | |
| * | I. "Y", Cotner - 66th | | | | | | | | |
| * | J. "D", 40th - 44th | | | | | | | | |
| * | K. Cleveland, 53rd - 59th; 57th, Adams - Cleveland | | | | | | | | |

| (5) | (6) | (7) | | (8) | (9) | (10) | (11) | | | | | (1) | |
|-----------------------------|-------------------------------|----------------------|---------|-------------------------------------|-------------------|-----------------|---|-------------|------------------|-------|-----------------|-----------|-----------------|
| TOTAL FOR SIX YEARS (000's) | COST BEYOND 2005-2006 (000's) | PRIOR APPROPRIATIONS | | TOTAL CAP COSTS (000's) (5)+(6)+(7) | COMP PLAN CONFORM | STATUS OF PLANS | COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's) | | | | | PROJ. NO. | |
| | | (000's) | YEAR FS | | | | PRELIM PLANS | FINAL PLANS | LAND ACQUISITION | CONST | EQUIP / FURNISH | | OTHER (EXPLAIN) |
| 3,150.0 | | 680.0 | 99-00 | 3,830.0 | GCP | 2 | | | | | 3,150.0 | | 4 |
| 770.0 | | | | 770.0 | GCP | 1 | | 70.0 | | | 700.0 | | |
| 250.0 | | 496.7 | 97-98 | 746.7 | GCP | 2 | | | | | 250.0 | | |
| 250.0 | | 403.3 | 97-98 | 653.3 | GCP | 2 | | | | | 250.0 | | |
| 510.0 | | | | 510.0 | GCP | 1 | | 60.0 | | | 450.0 | | |
| 9,800.0 | | 300.0 | 92-94 | 13,100.0 | GCP | 1 | | 1,000.0 | | | 8,800.0 | | 5 |
| | | 3,000.0 | 99-00 | | | | | | | | | | |
| 2,920.0 | 9,270.0 | | | 12,190.0 | Plan Amend | 1 | 220.0 | 700.0 | | | 2,000.0 | | |
| 7,200.0 | N/A | | | 7,200.0 | GCP | 1 | | 700.0 | | | 6,500.0 | | 6 |

2000 - 2006 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATER PRODUCTION & DISTRIBUTION

| (1) | (2) | (3) | 5% Inflation per year (4) | | | | | | |
|-----------|--|-------------|--|--------------|--------------|---------------------|-----------------------|--------------|--------------------------|
| PROJ. NO. | PROJECT TITLE | PROJ. PRIO. | PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's) | | | | | | |
| | | | 2000-2001 FS | 2001-2002 FS | 2002-2003 FS | 2003-2004 FS | 2004-2005 FS | 2005-2006 FS | |
| 7 | Distribution Mains | | | | | | | | |
| | A. 24" - Yankee Hill, 20th to 27th | B | | | | 150.0 UR 63.0 DC | | | |
| | B. 30" - 14th, Superior to Fletcher #500200 | A | 1,010.0 UR | | | | | | |
| | C. 24" - 84th, Vine to Holdrege | B | | 400.0 UR | | | | | |
| | D. 16" - Fletcher, 14th to 27th | A | | 520.0 UR | | | | | |
| | E. 16" - Fletcher, 77th to 82nd | B | | | | 270.0 UR | | | |
| | F. 16" - South St, 17th to 1st | B | | | | 1,340.0 UR | | | |
| | G. 16" - Pioneers, 7th to Folsom | B | | | 560.0 UR | | | | |
| | H. 16" - 40th, San Mateo south 1/4 mile | A | 60.0 UR 20.0 DC | | | | | | |
| | I. 24" - 56th, Union Hill Rd to Yankee Hill Rd | B | | | | | 600.0 UR | | |
| | J. 24" - Highway 34, 1st to NW 12th | B | | | | | 50.0 RB 1,210.0 UR | | |
| | K. 24" - 84th, Pine Lake Rd to Yankee Hill Rd | B | | | 720.0 UR | | | | |
| * | L. 30" - Yankee Hill Rd, 56th to 84th | B | | | | | | | 1,080.0 RB 1,020.0 UR |
| * | M. 30" - Fletcher, 14th to 1st | B | | | | | | | 1,180.0 UR |
| * | N. 24" - 14th, Fletcher to Alvo | B | 600.0 DC | | | | | | |
| 8 | Distribution Main Subsidies #506050 | A | 500.0 UR | 500.0 UR | 500.0 UR | 500.0 UR | 500.0 UR | 500.0 UR | 500.0 UR |
| | FUNDING SOURCE BREAKDOWN | | | | | | | | |
| | DC (Developer's Contribution) | | 620.0 | 150.0 | 0.0 | 63.0 | 0.0 | 0.0 | |
| | RB (Revenue Bonds) | | 3,500.0 | 4,000.0 | 5,000.0 | 2,200.0 | 3,800.0 | 4,000.0 | |
| | UR (Utility Revenue) | | 5,810.0 | 3,810.0 | 3,710.0 | 4,760.0 | 4,390.0 | 3,930.0 | |
| | DIVISION TOTAL | | 9,930.0 | 7,960.0 | 8,710.0 | 7,023.0 | 8,190.0 | 7,930.0 | |

| (5) | (6) | (7) | | (8) | (9) | (10) | (11) | | | | | | (1) |
|-----------------------------|-------------------------------|------------------------------|-------|-------------------------|-------------------|-----------------|---|-------------|------------------|---------|-----------------|-----------------|-----------|
| TOTAL FOR SIX YEARS (000's) | COST BEYOND 2005-2006 (000's) | PRIOR APPROPRIATIONS (000's) | | TOTAL CAP COSTS (000's) | COMP PLAN CONFORM | STATUS OF PLANS | COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's) | | | | | | PROJ. NO. |
| | | YEAR | FS | (5)+(6)+(7) | | | PRELIM PLANS | FINAL PLANS | LAND ACQUISITION | CONST | EQUIP / FURNISH | OTHER (EXPLAIN) | |
| 213.0 | | | | 213.0 | GCP | 1 | | 23.0 | | 190.0 | | | 7 |
| 1,010.0 | | 29.0 | 91-92 | 1,039.0 | GCP | 1 | | 110.0 | | 900.0 | | | |
| 400.0 | | | | 400.0 | GCP | 1 | | 40.0 | | 360.0 | | | |
| 520.0 | | | | 520.0 | GCP | 1 | | 50.0 | | 470.0 | | | |
| 270.0 | | | | 270.0 | GCP | 1 | | 30.0 | | 240.0 | | | |
| 1,340.0 | | | | 1,340.0 | GCP | 1 | | 140.0 | | 1,200.0 | | | |
| 560.0 | | | | 560.0 | GCP | 1 | | 60.0 | | 500.0 | | | |
| 80.0 | | | | 80.0 | GCP | 1 | | 10.0 | | 70.0 | | | |
| 600.0 | | | | 600.0 | GCP | 1 | | 60.0 | | 540.0 | | | |
| 1,260.0 | | | | 1,260.0 | GCP | 1 | | 120.0 | | 1,140.0 | | | |
| 720.0 | | | | 720.0 | GCP | 1 | | 70.0 | | 650.0 | | | |
| 2,100.0 | | | | 2,100.0 | Plan Amend | 1 | | 200.0 | | 1,900.0 | | | |
| 1,180.0 | | | | 1,180.0 | GCP | 1 | | 120.0 | | 1,060.0 | | | |
| 600.0 | | | | 600.0 | GCP | 1 | | 60.0 | | 540.0 | | | |
| 3,000.0 | N/A | | | 3,000.0 | GCP | 1 | | | | 3,000.0 | | | 8 |
| 833.0 | | | | | | | | | | | | | |
| 22,500.0 | | | | | | | | | | | | | |
| 26,410.0 | | | | | | | | | | | | | |
| 49,743.0 | | | | | | | | | | | | | |