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Rapid City
Manager with
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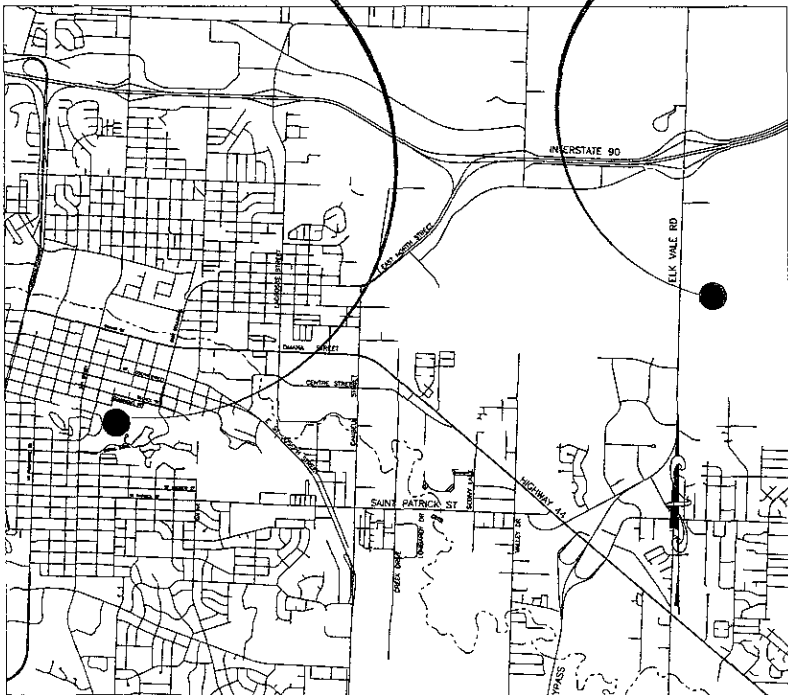
ELK VALE

LOW LEVEL RESERVOIR

CITY OF RAPID CITY PROJECT NO. W07-1638

PROJECT LOCATION
(SIGNAL HILL)

PROJECT LOCATION
(ELK VALE)



PROJECT LOCATION MAP NOT TO SCALE



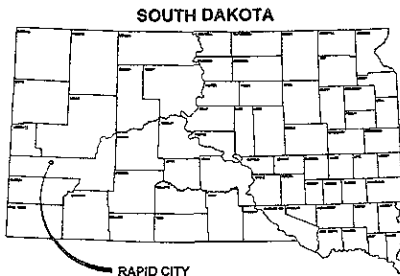
In Association with

**Kadmas
Lee
Jackson**
Architects
Interior Services
Planners

CW STRUCTURAL
ENGINEERS

JOSEPH P LARRIVEE ARCHITECTS PC

**PRAIRIE
ENGINEERING, P.C.**
PROFESSIONAL CONSULTING ENGINEERS



SOUTH DAKOTA

RAPID CITY

ENGINEERING TEAM	CIVIL ENGINEERING Advanced Engineering and Environmental Services, Inc.	STRUCTURAL ENGINEERING CW Structural Engineers, Inc.
	LANDSCAPE ARCHITECTURE Kadmas, Lee & Jackson	PROCESS ENGINEERING Advanced Engineering and Environmental Services, Inc.
	ARCHITECT Joseph P. Larrivee Architects PC	ELECTRICAL ENGINEERING Fisher Engineering PC
		MECHANICAL ENGINEERING Advanced Engineering and Environmental Services, Inc.
GEOTECHNICAL	CIVIL ENGINEERING Advanced Engineering and Environmental Services, Inc.	

PRELIMINARY

ONE CALL
BEFORE DIGGING
1-800-781-7474

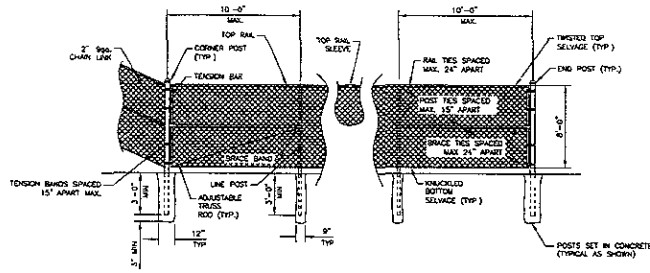


CITY OF RAPID CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

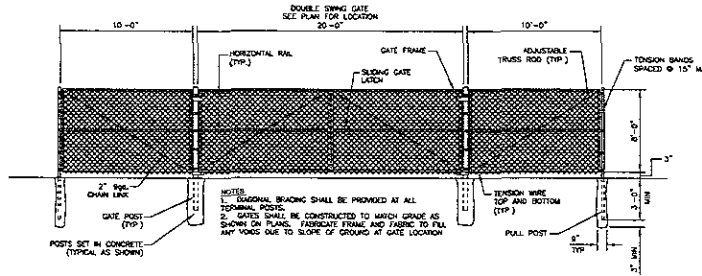
Plan Set Number

ELK VALE
LOW LEVEL RESERVOIR
CITY OF RAPID CITY PROJECT NO. W07-1638

CHAIN LINK FENCE COMPONENTS	
LINE POSTS	2-3/8" O.D.
CHAIN LINK	2" 9 ga
CORNER POSTS	2-7/8" O.D.
TOP RAIL	1-1/2" O.D.
BRACE RAIL	1-5/8" O.D.
BOTTOM TENSION WIRE	3 ga
GATE POSTS	8-5/8" O.D.
GATE FRAME	1-7/8" O.D.

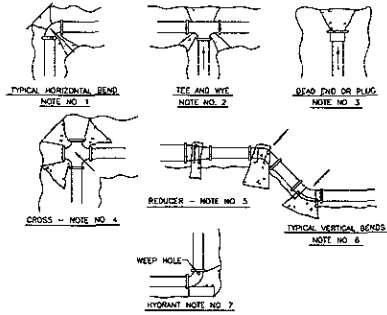


1 CHAIN-LINK FENCE DETAIL
SCALE NONE

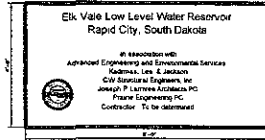


2 MANUAL DOUBLE SWING GATE DETAIL
SCALE NONE

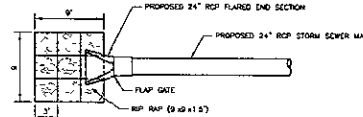
DETAIL PROVIDED FOR REFERENCE FOR FIELD CONDITIONS. CONTRACTOR SHALL USE RESTRAINT PILE SYSTEM AS SHOWN ON THE DRAWINGS



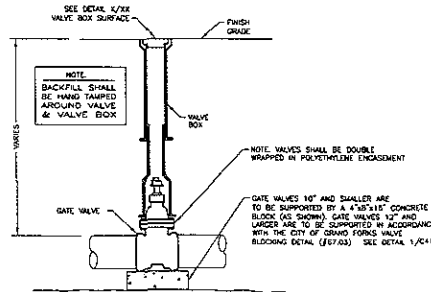
- NOTES:
1. BLOCKING OF TYPICAL HORIZONTAL BEND WILL INCLUDE ALL BENDS 11 1/4" (1/32) TO 90° (1/4")
 2. BLOCK TEE AS SHOWN IN THE EVENT THAT ONE SIDE OF THE MAIN IS PLUGGED 2 THRUST BLOCKS WILL BE REQUIRED
 3. BLOCKING OF PLUG IS TO INCLUDE POLYSTYRENE BETWEEN THE PLUG AND CONCRETE
 4. BLOCKING OF CROSS WITH 2 PLUGS IS AS SHOWN WITH ONLY 1 PLUG PROVIDED SAME AS TEE
 5. INSTALL CONCRETE ANCHOR AND TIE DOWNS AS SHOWN IF SIZE IS REDUCED 2 PIPE SIZES OR MORE
 6. ALL VERTICAL BENDS TO BE BLOCKED AND TIED DOWN AS SHOWN
 7. ALL HYDRANTS TO BE BLOCKED AS SHOWN KEEP CONCRETE AWAY FROM WEEP HOLES
 8. THE END AREA OF CONCRETE THRUST BLOCKS SHALL BE SUBMITTED WITH SOIL BEARING CHARACTERISTICS TO THE ENGINEER FOR APPROVAL. MINIMUM RESISTANCE REQUIRED SHALL BE FOR 1.5 TIMES WORKING PRESSURE OF PIPE



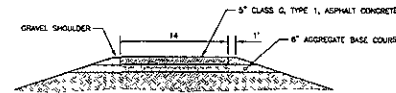
4 PROJECT SIGN DETAIL
SCALE NONE



6 ELK VALE STORM SEWER OUTLET DETAIL
SCALE NONE

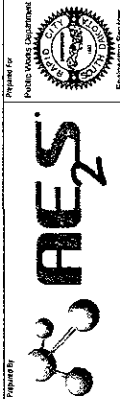


5 GATE VALVE DETAIL
SCALE NONE



7 ACCESS ROAD SECTION DETAIL
SCALE NONE

3 CONCRETE THRUST BLOCKING DETAIL
SCALE NONE



Scale: AS NOTED
Designed By: JSH / Drawn By: JSH
Design Date: 5-05 / Print Date: 5/22/05
Inventor: JSH
P00543-2007-05
Surveyed By: JSH
Notes:

ELK VALE
LOW LEVEL RESERVOIR

Sheet Title

CIVIL DETAILS

PRELIMINARY