CITY OF SCOTTSDALE
DESERT GREENBELT PROJECT

Reata Pass / Beardsley Wash
CLOMR

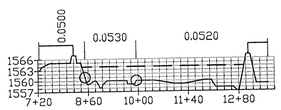
by: The Greiner Team

The Desert Greenbelt
SCOTTSDALE, ARIZONA

Registered Professional Engineer (Civil)
CERTIFICATE NO.
17756
SHI-EN
SHIAU
Date Signed 6-1-95
ARIZONA, U. S. A.

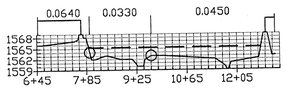
May 1995

VOLUME III



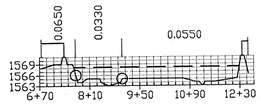
14

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1563.96 ft



15

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1565.29 ft



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Profile 1
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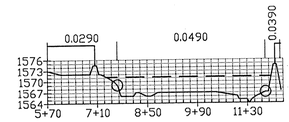

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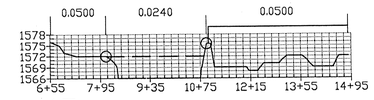

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Profile 1
Flow Discharge = 15900.00 cfs
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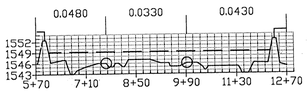

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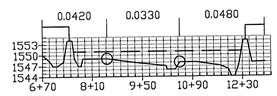

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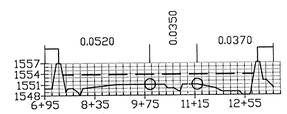

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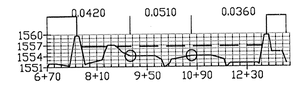

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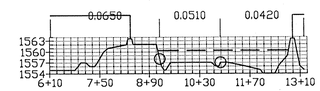
— — Computed Water Surface with 100 = 1556.65 ft



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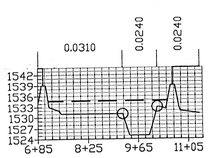
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1560.37 ft



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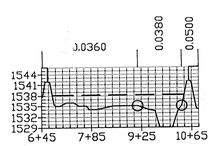

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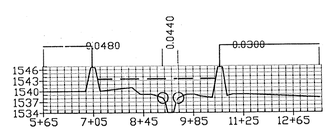

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Flow Discharge = 15900.00 cfs
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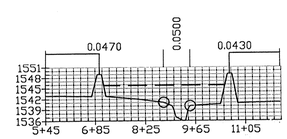

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Flow Discharge = 15900.00 cfs
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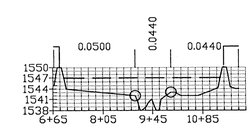

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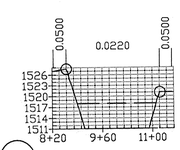
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1546.97 ft



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Flow Discharge = 15900.00 cfs
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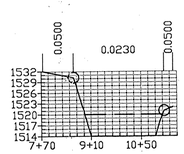

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Flow Discharge = 15900.00 cfs
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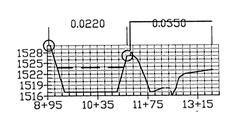

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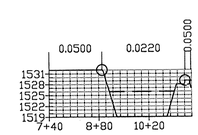
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1523.79 ft



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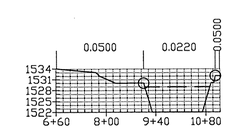
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1525.97 ft



3

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1528.97 ft

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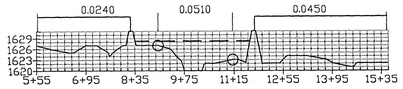
MAIN REATA
SUBCRITICAL 1-17

06/02/95 02:31PM REATA-1N1



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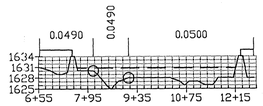
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1628.27 ft



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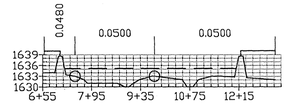

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Flow Discharge = 14660.00 cfs
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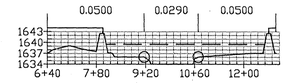

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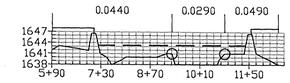

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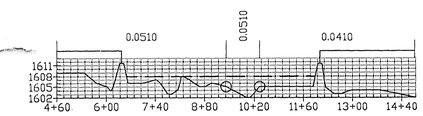

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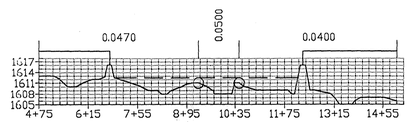
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1607.97 ft



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Flow Discharge = 14660.00 cfs
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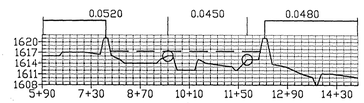

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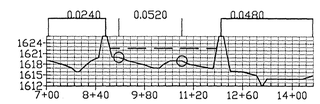

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Flow Discharge = 14660.00 cfs
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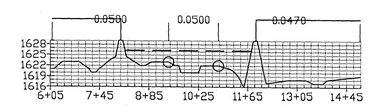

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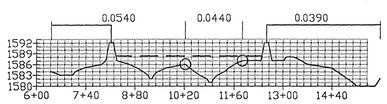
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1626.33 ft



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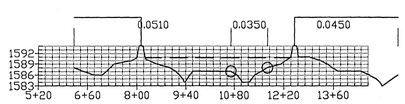

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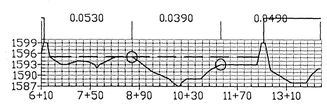

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Flow Discharge = 14660.00 cfs
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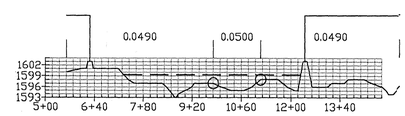

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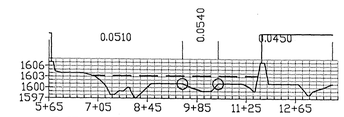

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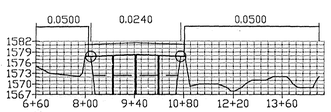
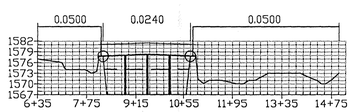


17.2

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1572.37 ft



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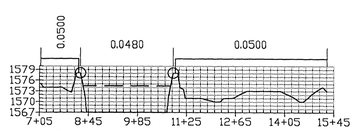
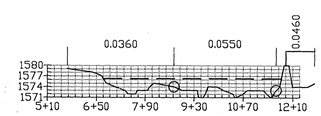


18

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1574.45 ft



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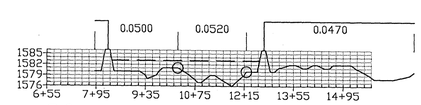

20

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1583.08 ft

05/18/95 11:43AM REATA-MN

MAIN REATA
SUBCRITICAL 17.2-35

REATA-MN Subcritical

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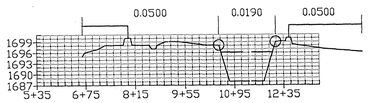

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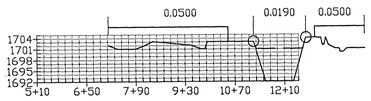

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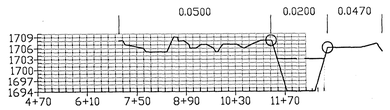
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1700.98 ft



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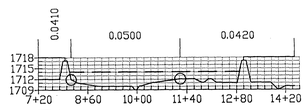

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Flow Discharge = 14660.00 cfs
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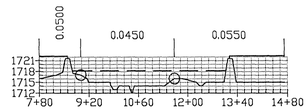

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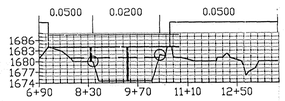

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Profile 1
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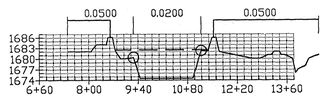

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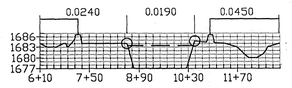
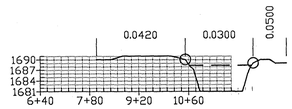


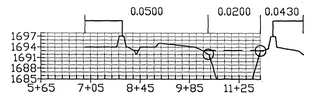
45

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1683.37 ft



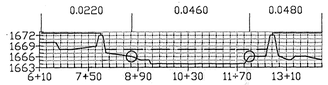
46

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1688.37 ft



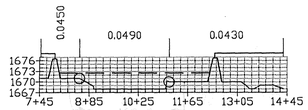
47

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1693.05 ft



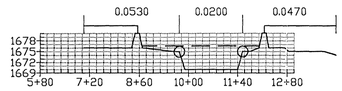
41

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1668.01 ft



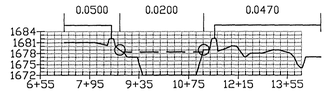
42

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1672.58 ft



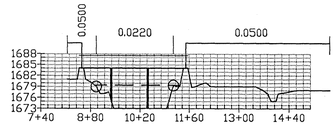
43

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1676.55 ft



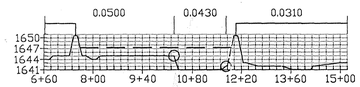
44

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1678.44 ft



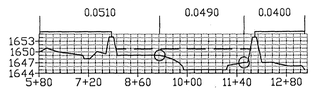
44.1

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1679.42 ft



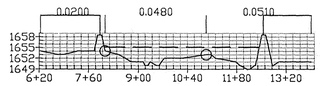
36

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1647.30 ft



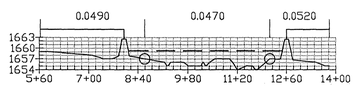
37

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1650.84 ft



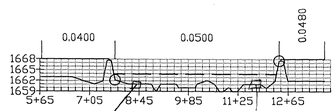
38

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1655.12 ft



39

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1659.33 ft



40

ELEV 1661

		LOC NC	SUBCRITICAL			DANGER	
				Local Depth (ft)	CHLD	ABUT	
2-YR	Q = 973	CWSEL = 1660.9	VCH = 4.8	0.6	H	H	
5-YR	Q = 2271	CWSEL = 1661.6	VCH = 5.0				
		OVERALL			DANGER		
	2-YR	V = 4.8	D = 1.94		H	H	
	5-YR	V = 5.0	D = 2.64		H	H	

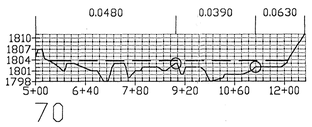
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1663.88 ft

MAIN REATA
SUBCRITICAL 36-52

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

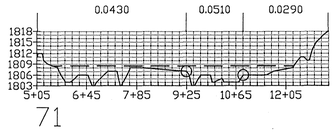
05/18/95 11:45AM REATA-MN

REATA-MN Subcritical



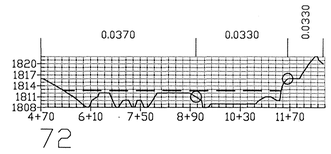
70

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1803.79 ft



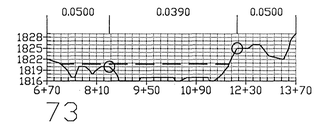
71

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1808.54 ft



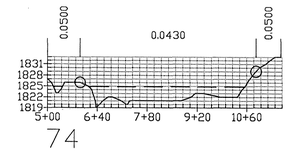
72

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1812.69 ft



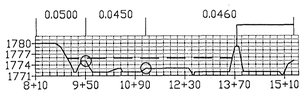
73

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1820.74 ft



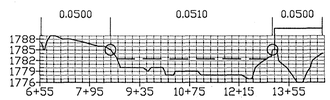
74

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1824.88 ft



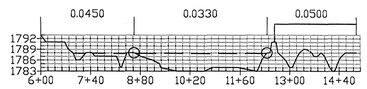
65

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1775.75 ft



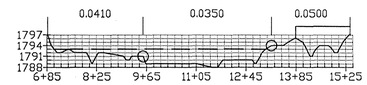
66

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1782.51 ft



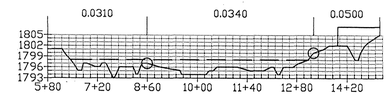
67

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1787.85 ft



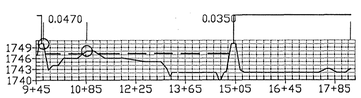
68

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1792.98 ft



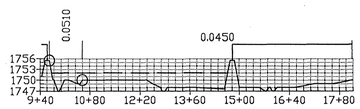
69

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1798.08 ft



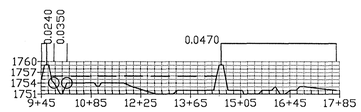
58

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1747.28 ft



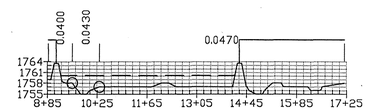
59

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1751.99 ft



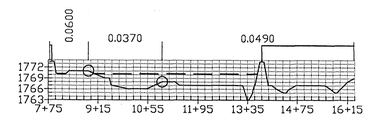
60

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1755.87 ft



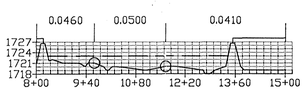
61

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1760.13 ft



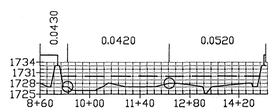
64

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1770.25 ft



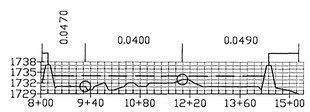
53

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1722.99 ft



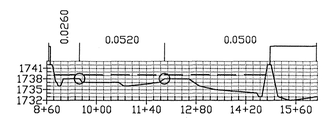
54

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1729.96 ft



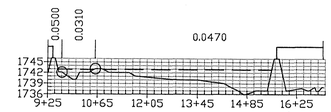
55

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1733.96 ft



56

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1739.15 ft



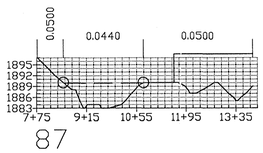
57

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1742.85 ft

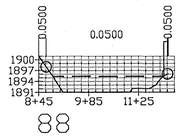
MAIN REATA
SUBCRITICAL 53-74

REATA-MN Subcritical

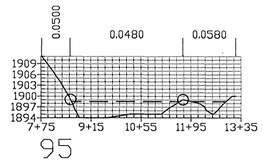
05/18/95 11:46AM REATA-MN



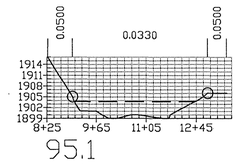
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1889.88 ft



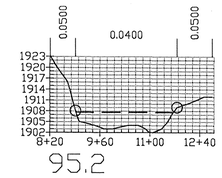
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1895.30 ft



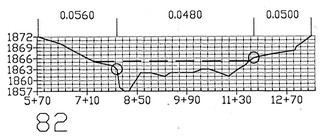
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1898.47 ft



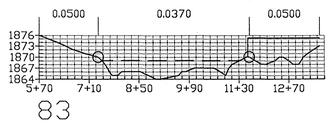
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1903.65 ft



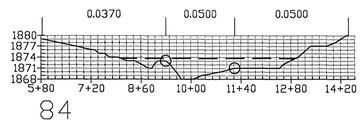
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1907.61 ft



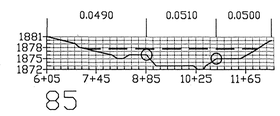
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1865.19 ft



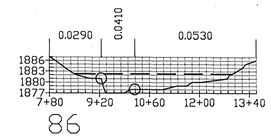
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1869.03 ft



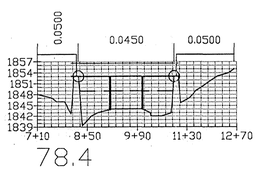
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1873.66 ft



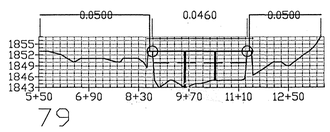
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1877.62 ft



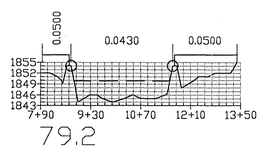
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1882.26 ft



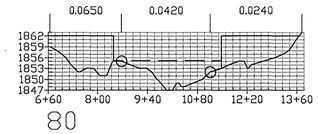
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1848.96 ft



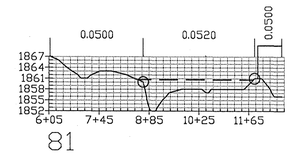
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1849.89 ft



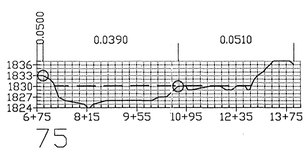
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1849.88 ft



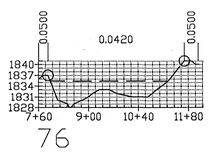
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1855.15 ft



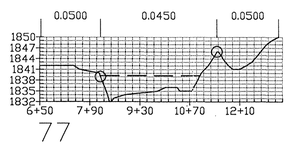
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1860.66 ft



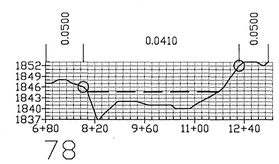
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1830.18 ft



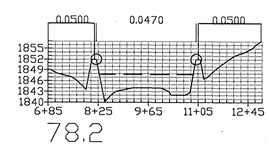
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1835.41 ft



Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1839.31 ft



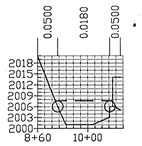
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1844.72 ft



Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1847.78 ft

MAIN REATA
SUBCRITICAL 75-95.2

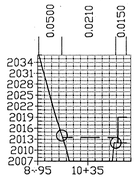
05/18/95 11:47AM REATA-MN



100

REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

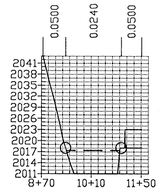
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2007.56 ft



110

REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

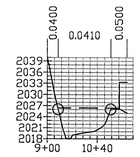
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2013.45 ft



120

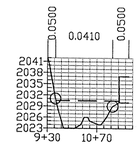
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2017.31 ft



130

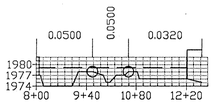
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2026.35 ft



140

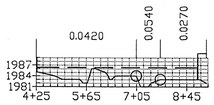
THE END OF FLOODWALL

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2030.45 ft



96.3

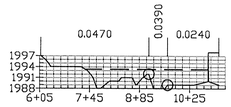
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1979.10 ft



96.4

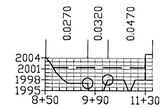
THE END OF FLOODWALL ON THE LEFT OVERBANK

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1986.34 ft



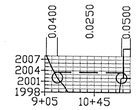
96.5

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1993.30 ft



96.6

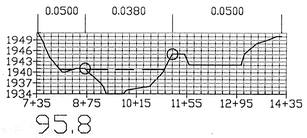
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2001.40 ft



97

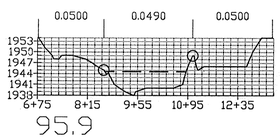
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2003.52 ft



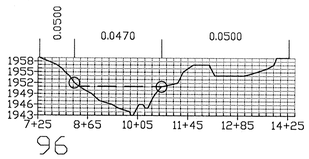
95.8

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1940.78 ft



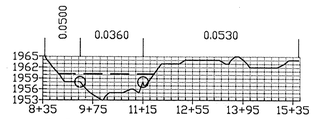
95.9

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1944.63 ft



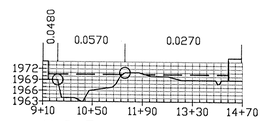
96

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1951.05 ft



96.1

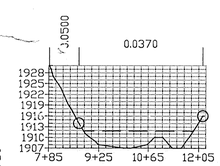
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1960.25 ft



96.2

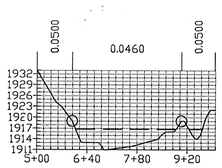
THE BEGINNING OF FLOODWALL ON THE RIGHT OVERBANK
THE BEGINNING OF FLOODWALL ON THE LEFT OVERBANK

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1970.59 ft



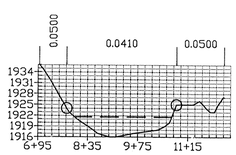
95.3

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1911.86 ft



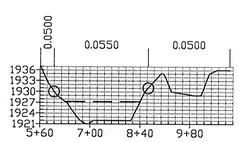
95.4

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1916.79 ft



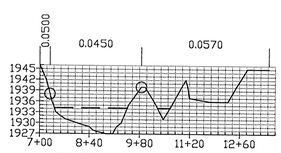
95.5

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1921.63 ft



95.6

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1927.34 ft

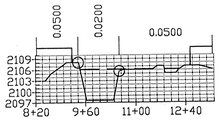


95.7

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1934.25 ft

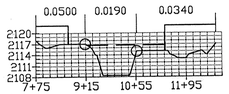
MAIN REATA
SUBCRITICAL 95.3-140

REATA-MN Subcritical



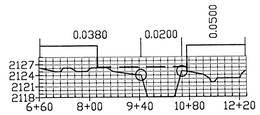
280

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2106.15 ft



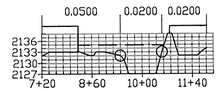
290

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2116.69 ft



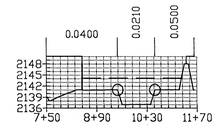
300
THE END OF FLOODWALL ON RIGHT BANK

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2126.20 ft



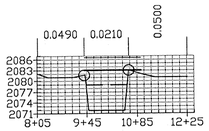
310
THE BEGINNING OF LEVEE ON LEFT BANK

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2134.86 ft



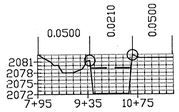
320
THE END OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2144.12 ft



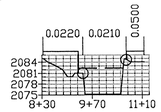
240
UPSTREAM FACE OF THE FOOTHILLS DRIVE BRIDGE
44 FEET WIDE, SINGLE SPAN

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2078.92 ft



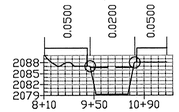
245

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2079.33 ft



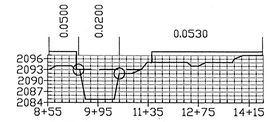
250
THE BEGINNING OF FLOODWALLS

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2082.41 ft



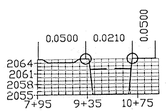
265

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2086.69 ft



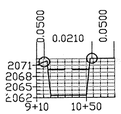
270

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2093.06 ft



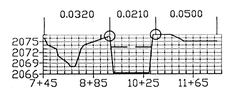
210

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2062.12 ft



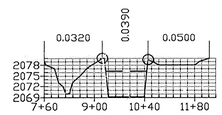
220

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2069.72 ft



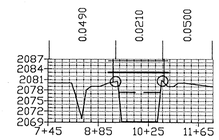
225

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2073.42 ft



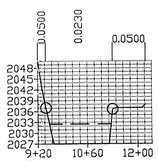
230

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2076.32 ft



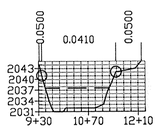
235
DOWNSTREAM FACE OF THE BRIDGE CROSSING
FOOTHILLS DRIVE

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2077.41 ft



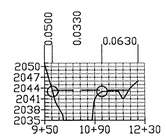
150
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2032.49 ft



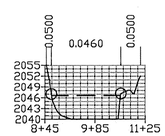
160

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2037.54 ft



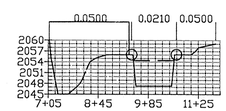
170
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2043.37 ft



180
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2046.56 ft

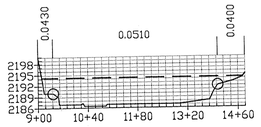


200
BEGINNING OF CONCRETE CHANNEL
1:1 SIDE SLOPE WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2054.40 ft

MAIN REATA
SUBCRITICAL 150-320

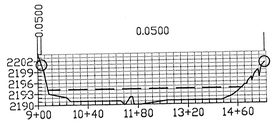
06/16/95 02:41PM REATA-XN



420

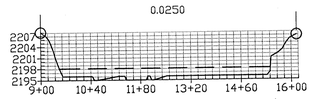
THE END OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SNADY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2194.24 ft



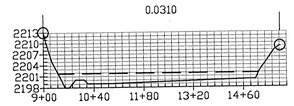
430

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2194.16 ft



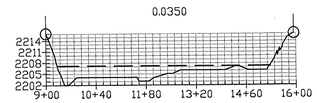
440

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2198.03 ft



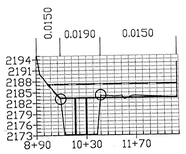
450

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2201.77 ft



460

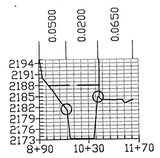
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2207.19 ft



400

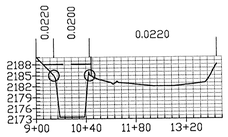
UPSTREAM FACE OF PINNACLE PEAK BRIDGE
42 FEET WIDE, TWO PIERS AND THREE SPANS

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2187.19 ft



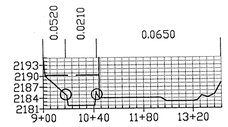
410

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2187.95 ft



414

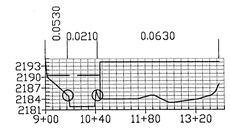
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2188.06 ft



415

THE END OF DROP STRUCTURE

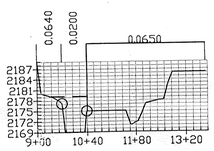
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2190.31 ft



415.1

THE BEGINNING OF DROP STRUCTURE
THE END OF FLOODWALL ON RIGHT

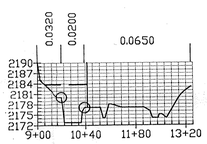
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2190.52 ft



370

THE BEGINNING OF FLOODWALL ON THE RIGHT OVERBANK

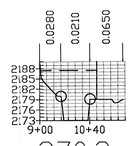
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2179.21 ft



370.1

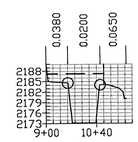
THE BEGINNING OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2183.75 ft



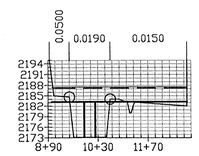
370.2

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2187.43 ft



380

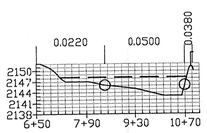
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2187.23 ft



390

DOWNSTREAM FACE OF PINNACLE PEAK BRIDGE

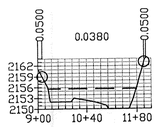
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2187.15 ft



330

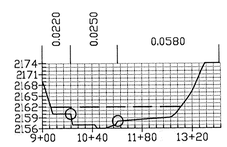
THE END OF FLOODWALLS AND LEVEES

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2148.24 ft



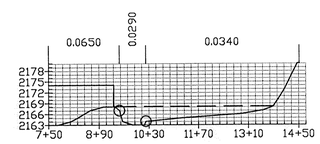
340

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2155.62 ft



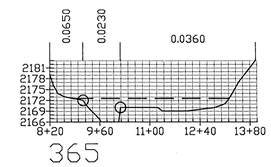
350

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2161.93 ft



360

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2168.10 ft

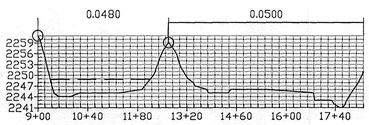


365

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2172.55 ft

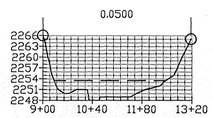
MAIN REATA
SUBCRITICAL 330-460

06/16/95 02:43PM REATA-MN



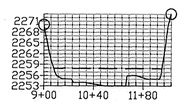
530

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2248.82 ft



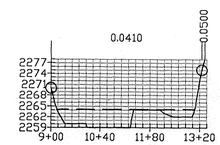
540

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2253.49 ft



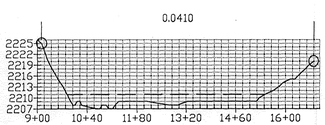
550

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2257.91 ft



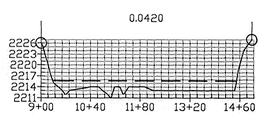
560

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2264.13 ft



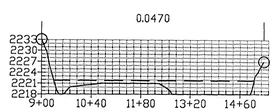
470

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2210.94 ft



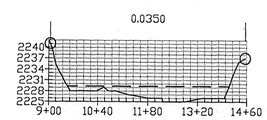
480

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2215.64 ft



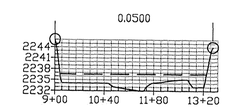
490

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2221.76 ft



500

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2229.34 ft



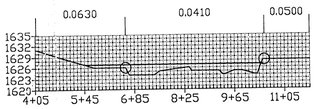
510

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2236.52 ft

MAIN REATA
SUBCRITICAL 470-560

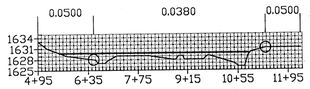
REATA-MN Subcritical

05/18/95 12:27PM REATA-MN



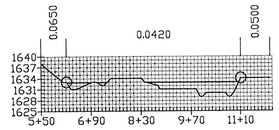
14

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1626.84 ft



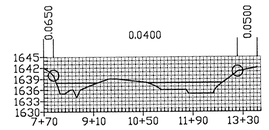
15

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1629.70 ft



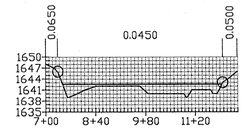
16

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1632.88 ft



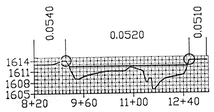
17

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1637.90 ft



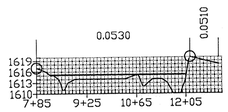
18

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1642.53 ft



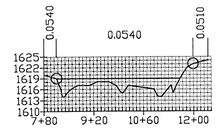
9.3

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1612.36 ft



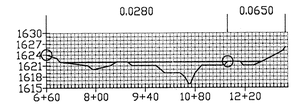
9.4

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1615.17 ft



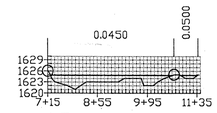
9.5

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1618.90 ft



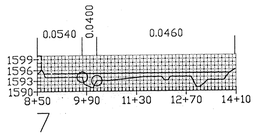
12

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1621.93 ft



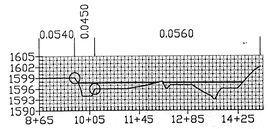
13

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1624.81 ft



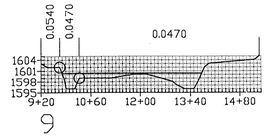
7

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1595.06 ft



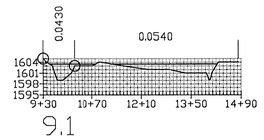
8

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1597.70 ft



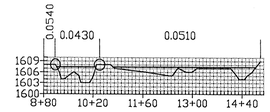
9

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1600.39 ft



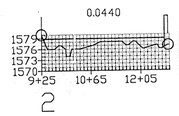
9.1

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1603.54 ft



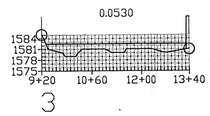
9.2

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1607.43 ft



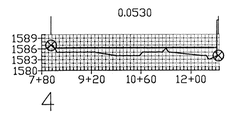
2

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1578.90 ft



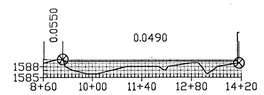
3

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1582.50 ft



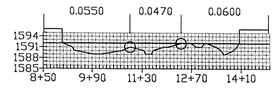
4

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1586.28 ft



5

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1589.56 ft



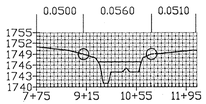
6

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1592.11 ft

SOUTH BEARDSLEY
SUBCRITICAL 2-18

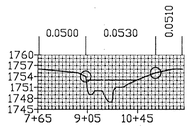
REATA-SB Subcritical

05/18/95 02:08PM REATA-SB



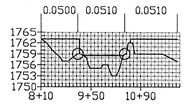
35

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1746.91 ft



36

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1753.05 ft

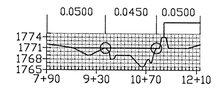


37

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1758.63 ft

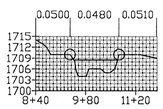
38

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1765.34 ft



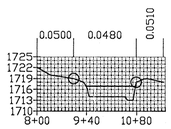
39

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1771.01 ft



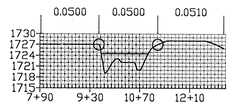
30

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1708.53 ft



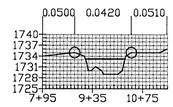
31

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1716.85 ft



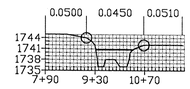
32

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1724.56 ft



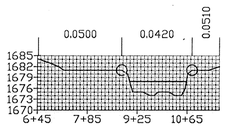
33

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1733.28 ft



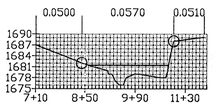
34

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1740.74 ft



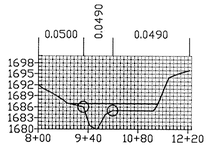
25

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1677.85 ft



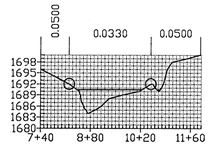
26

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1681.45 ft



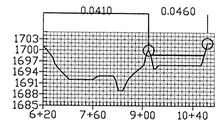
27

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1686.90 ft



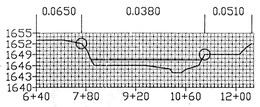
28

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1690.47 ft



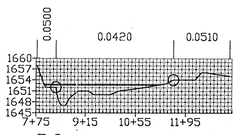
29

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1698.79 ft



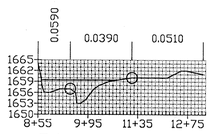
19

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1647.60 ft



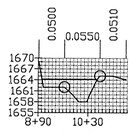
20

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1652.69 ft



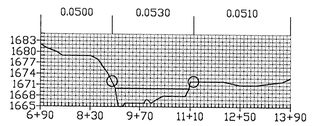
21

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1659.37 ft



22

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1664.14 ft



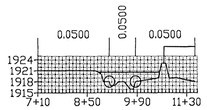
24

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1670.03 ft

SOUTH BEARDSLEY
SUBCRITICAL 19-39

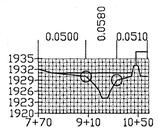
REATA-SB Subcritical

05/19/99 02:10PM REATA-SB



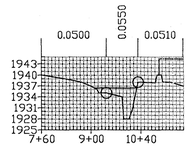
61

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1920.54 ft



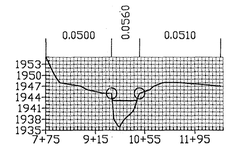
62

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1930.99 ft



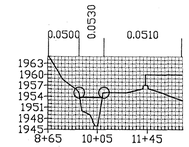
63

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1936.39 ft



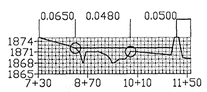
64

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1943.09 ft



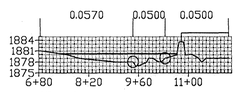
65

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1953.74 ft



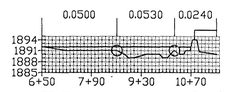
56

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1872.11 ft



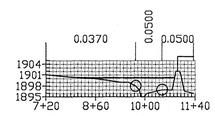
57

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1880.20 ft



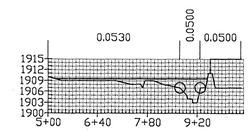
58

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1892.04 ft



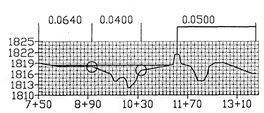
59

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1900.20 ft



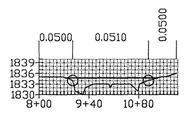
60

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1909.52 ft



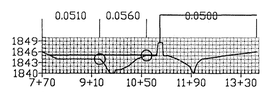
50

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1818.41 ft



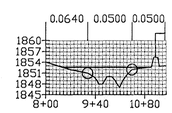
52

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1834.70 ft



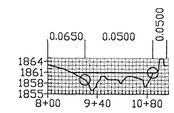
53

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1845.19 ft



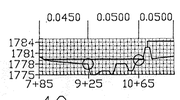
54

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1852.63 ft



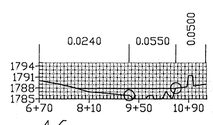
55

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1861.04 ft



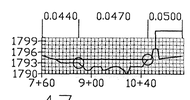
40

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1779.32 ft



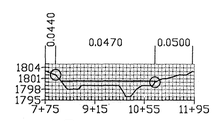
46

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1787.95 ft



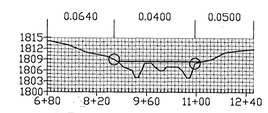
47

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1794.01 ft



48

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1800.30 ft



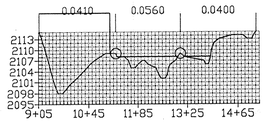
49

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1808.50 ft

05/18/95 02:11PM REATA-SB

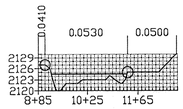
SOUTH BEARDSLEY
SUBCRITICAL 40-65

REATA-SB Subcritical



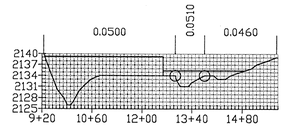
506

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2108.14 ft



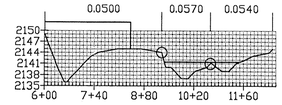
507

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2124.57 ft



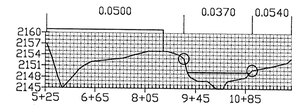
509

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2135.44 ft



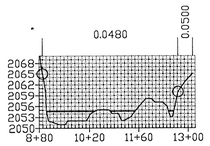
510

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2141.40 ft



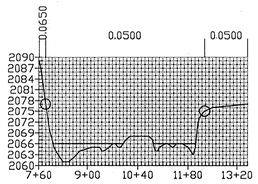
511

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2149.40 ft



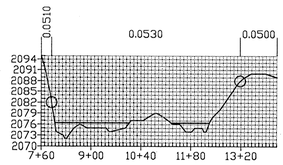
501

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2054.63 ft



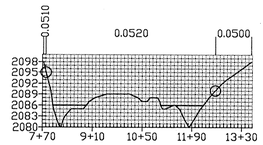
502

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2066.02 ft



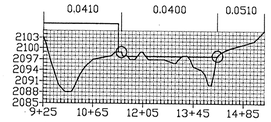
503

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2076.38 ft



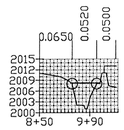
504

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2085.99 ft



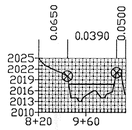
505

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2097.91 ft



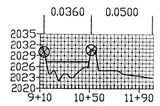
71

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2008.23 ft



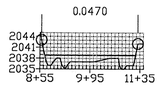
72

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2017.78 ft



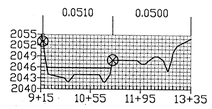
73

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2027.39 ft



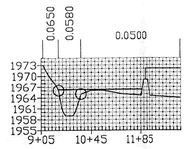
74

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2038.79 ft



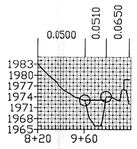
75

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2045.88 ft



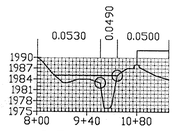
66

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1966.29 ft



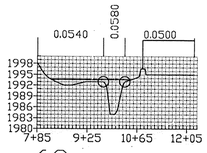
67

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1973.15 ft



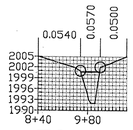
68

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1985.04 ft



69

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1993.64 ft



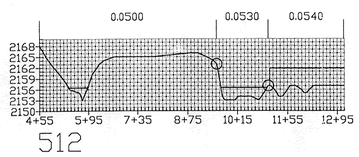
70

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 2000.67 ft

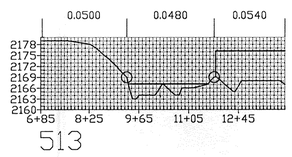
REATA-SB Subcritical

SOUTH BEARDSLEY SUBCRITICAL '66-511

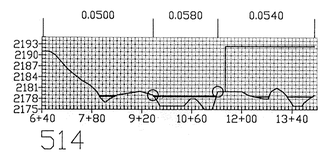
05/18/95 02:12PM REATA-SB



Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2156.54 ft



Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2167.21 ft

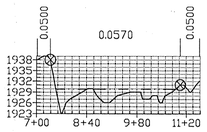


Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2178.81 ft

05/18/95 02:14PM REATA-SB

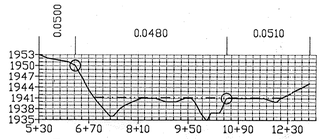
SOUTH BEARDSLEY
SUBCRITICAL 512-514

REATA-SB Subcritical



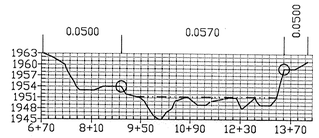
12

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1929.84 ft



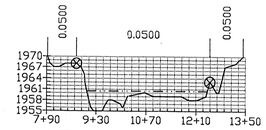
13

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1941.23 ft



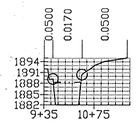
14

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1951.24 ft



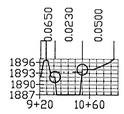
15

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1960.47 ft



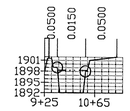
7

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1888.23 ft



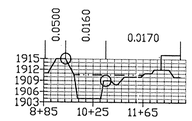
8

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1893.27 ft



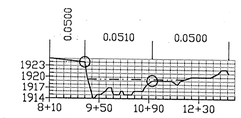
9

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1898.23 ft



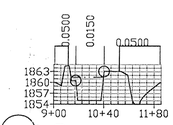
10

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1910.52 ft



11

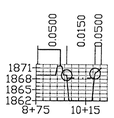
Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1919.37 ft



1

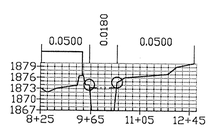
2

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1861.40 ft



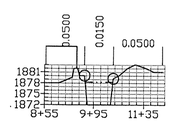
3

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1868.24 ft



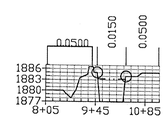
4

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1873.23 ft



5

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1878.23 ft



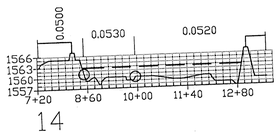
6

Profile 3
Flow Discharge = 6060.00 cfs
—··— Computed Water Surface with 10- = 1883.23 ft

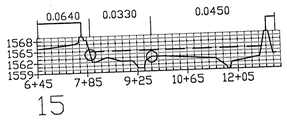
NORTH BEARDSLEY
SUBCRITICAL 2-15

REATA-NB Subcritical

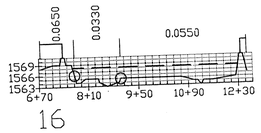
05/18/95 04:29PM REATA-NB



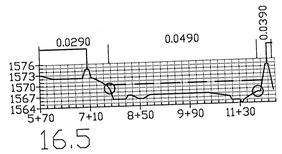
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1562.75 ft



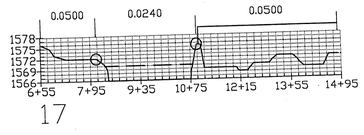
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1564.85 ft



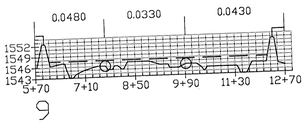
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1568.17 ft



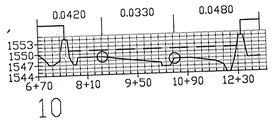
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1570.00 ft



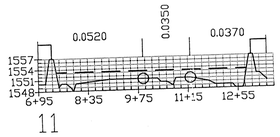
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1570.04 ft



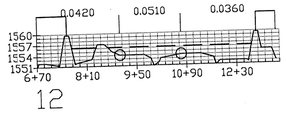
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1547.63 ft



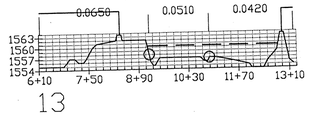
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1550.96 ft



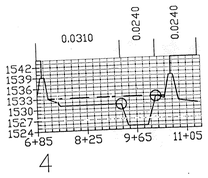
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1553.26 ft



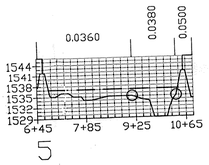
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1556.16 ft



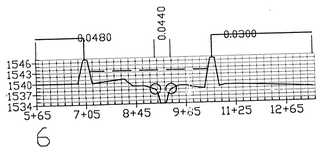
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1560.36 ft



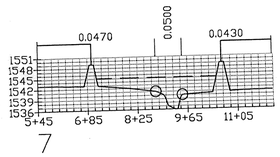
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1533.16 ft



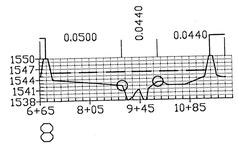
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1537.01 ft



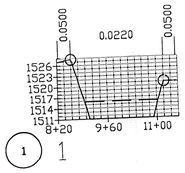
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1543.38 ft



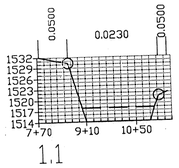
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1545.06 ft



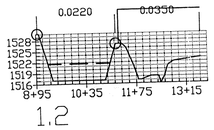
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1545.93 ft



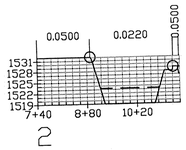
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1515.76 ft



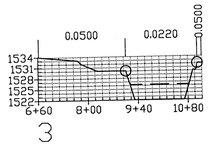
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1517.76 ft



Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1521.63 ft



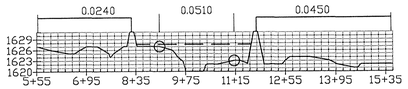
Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1523.26 ft



Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1526.15 ft

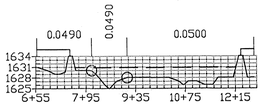
MAIN REATA
SUPERCRITICAL 1-17

06/20/95 02:52:25 PM REATA-MN



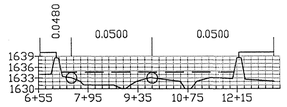
31

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1627.64 ft



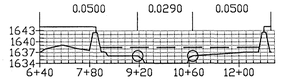
32

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1630.84 ft



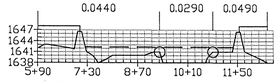
33

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1634.62 ft



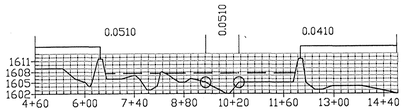
34

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1638.42 ft



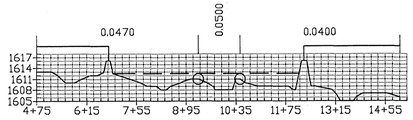
35

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1642.36 ft



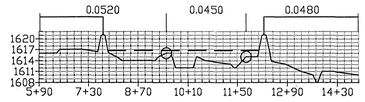
26

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1607.59 ft



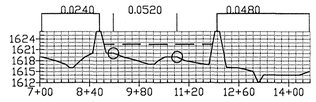
27

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1612.56 ft



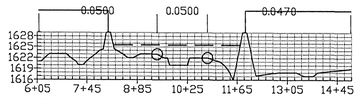
28

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1616.69 ft



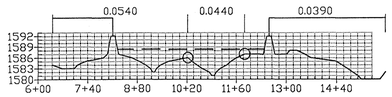
29

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1622.51 ft



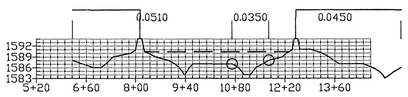
30

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1625.51 ft



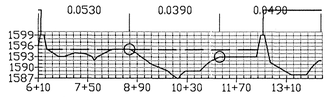
21

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1588.36 ft



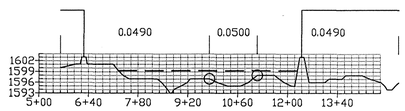
22

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1590.38 ft



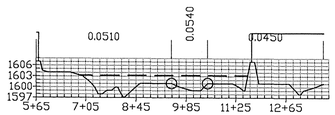
23

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1594.95 ft



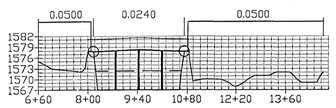
24

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1599.30 ft



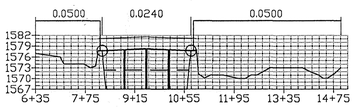
25

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1603.24 ft



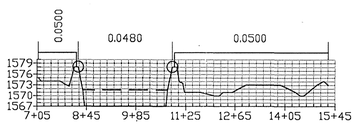
17.2

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1572.37 ft



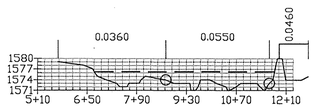
17.6

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1572.37 ft



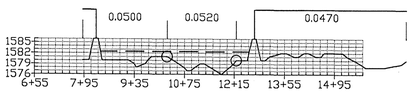
18

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1571.63 ft



19

Profile 1
Flow Discharge = 15900.00 cfs
— — Computed Water Surface with 100 = 1576.28 ft

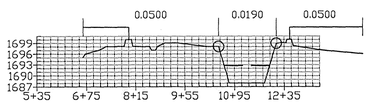


20

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1582.37 ft

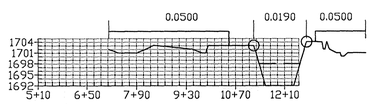
05/18/95 01:34PM REATA-MN

MAIN REATA
SUPERCRITICAL 17.2-35



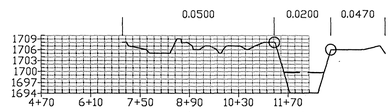
48

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1692.68 ft



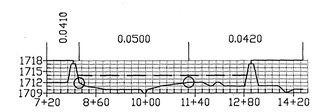
49

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1697.98 ft



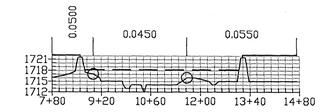
50

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1699.65 ft



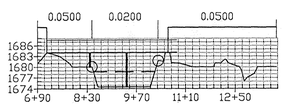
51

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1713.92 ft



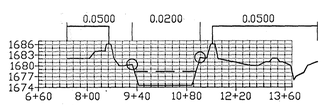
52

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1718.16 ft



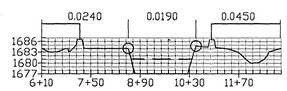
44.2

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1678.63 ft



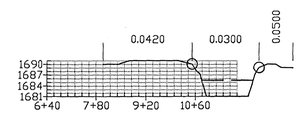
44.3

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1678.32 ft



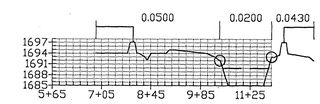
45

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1681.00 ft



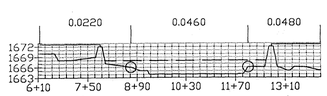
46

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1685.54 ft



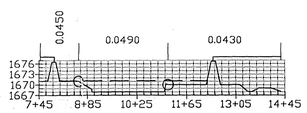
47

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1689.92 ft



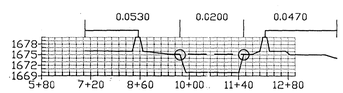
41

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1667.95 ft



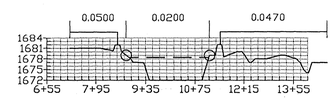
42

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1671.11 ft



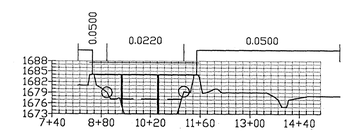
43

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1675.16 ft



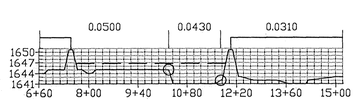
44

Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1678.40 ft

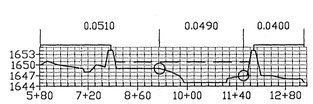


44.1

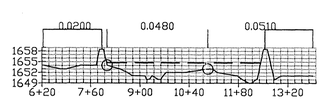
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1677.16 ft



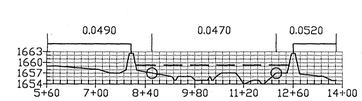
36



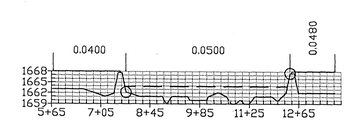
37



38



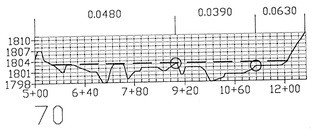
39



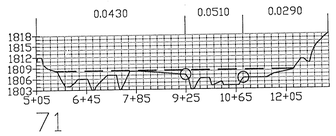
40

MAIN REATA
SUPERCRITICAL 36-52

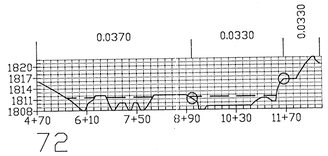
REATA-MN Supercritical



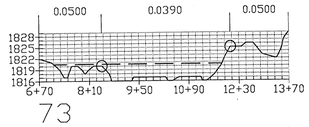
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1803.23 ft



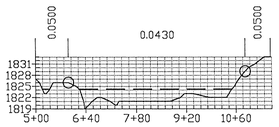
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1808.24 ft



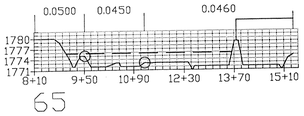
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1811.49 ft



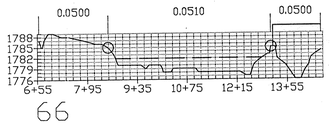
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1820.48 ft



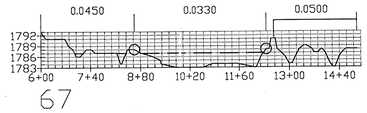
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1824.24 ft



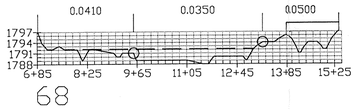
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1775.74 ft



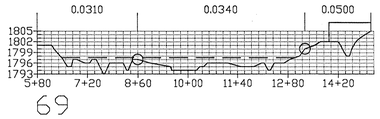
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1781.90 ft



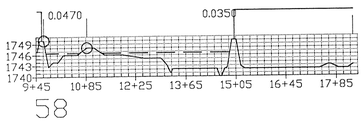
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1786.90 ft



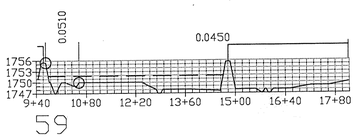
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1792.14 ft



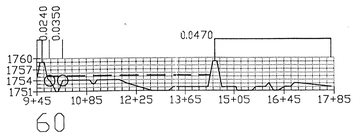
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1797.51 ft



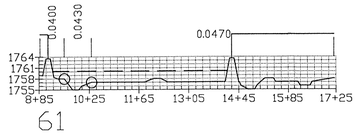
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1746.56 ft



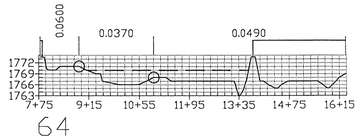
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1751.85 ft



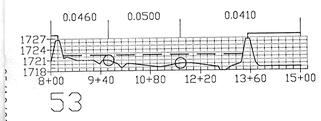
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1755.26 ft



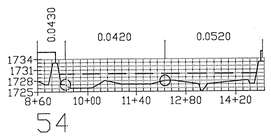
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1760.13 ft



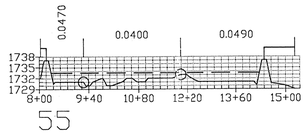
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1769.98 ft



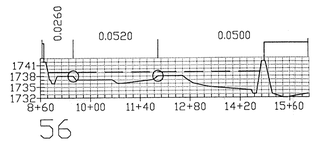
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1722.45 ft



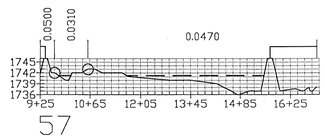
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1729.96 ft



Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1733.56 ft



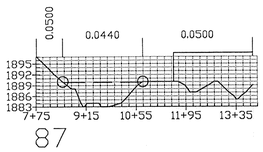
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1739.07 ft



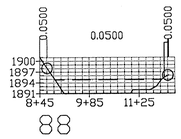
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1741.34 ft

MAIN REATA
SUPERCRITICAL 53-74

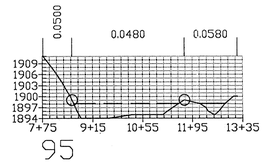
REATA-MN Supercritical



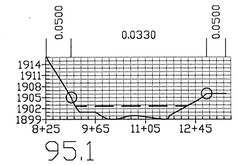
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1889.87 ft



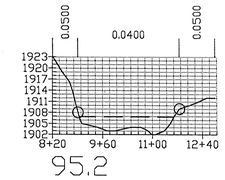
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1894.83 ft



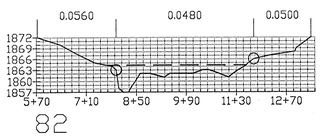
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1898.03 ft



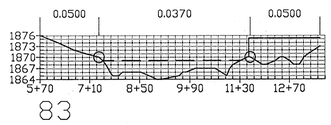
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1902.64 ft



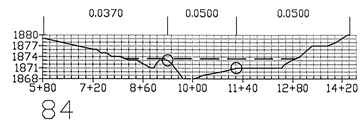
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1906.85 ft



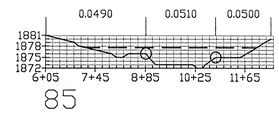
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1864.34 ft



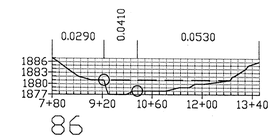
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1869.00 ft



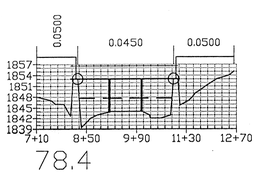
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1873.44 ft



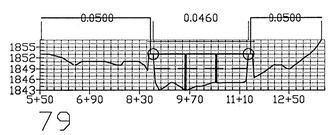
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1877.58 ft



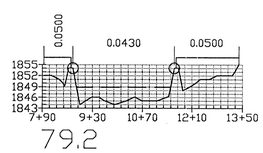
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1881.01 ft



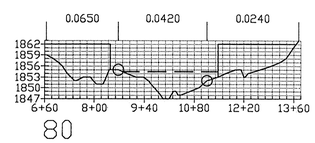
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1847.66 ft



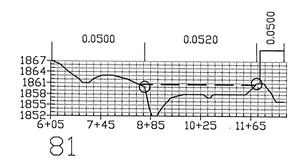
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1849.06 ft



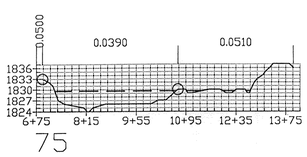
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1848.91 ft



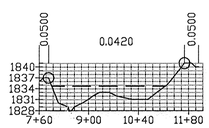
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1854.51 ft



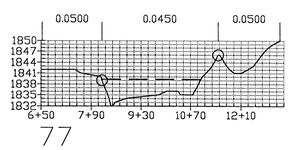
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1860.65 ft



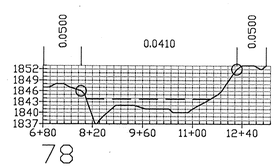
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1829.61 ft



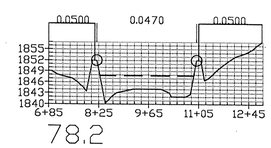
Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1834.72 ft



Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1839.33 ft



Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1843.82 ft

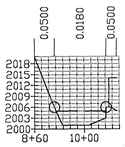


Profile 1
Flow Discharge = 14660.00 cfs
— — Computed Water Surface with 100 = 1847.75 ft

SUPERCRITICAL 75-95.2
MAIN REATA

05/18/95 01:39PM REATA-MN

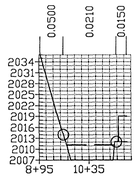
REATA-MN Supercritical



100

REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

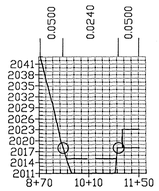
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2004.99 ft



110

REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

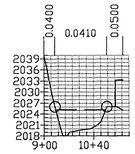
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2011.20 ft



120

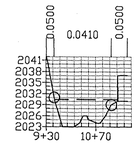
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2015.07 ft



130

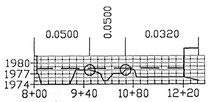
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2025.15 ft



140

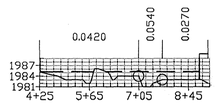
THE END OF FLOODWALL

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2030.46 ft



96.3

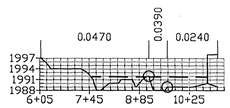
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1978.46 ft



96.4

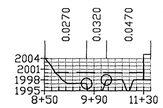
THE END OF FLOODWALL ON THE LEFT OVERBANK

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1985.23 ft



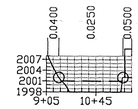
96.5

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1991.75 ft



96.6

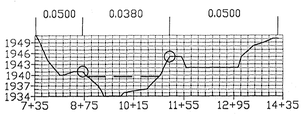
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2000.06 ft



97

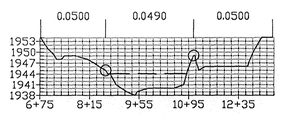
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2000.98 ft



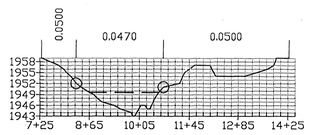
95.8

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1939.61 ft



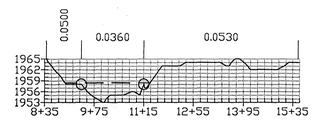
95.9

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1944.07 ft



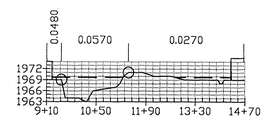
96

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1949.60 ft



96.1

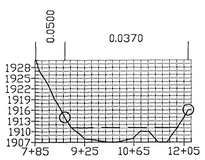
Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1958.43 ft



96.2

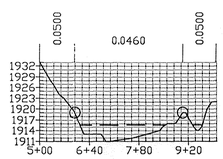
THE BEGINNING OF FLOODWALL ON THE RIGHT OVERBANK
THE BEGINNING OF FLOODWALL ON THE LEFT OVERBANK

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1969.67 ft



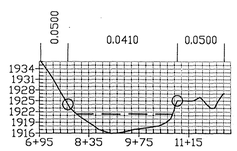
95.3

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1911.04 ft



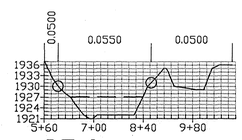
95.4

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1915.58 ft



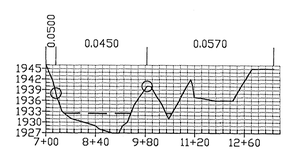
95.5

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1921.38 ft



95.6

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1927.08 ft



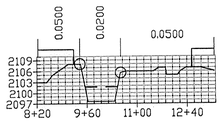
95.7

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 1932.52 ft

MAIN REATA
SUPERCRITICAL 95.3-140

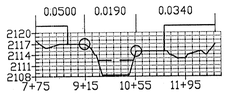
REATA-MN Supercritical

Sup.



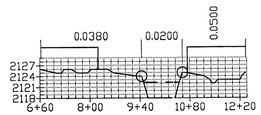
280

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2101.68 ft



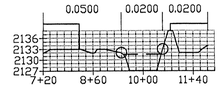
290

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2112.42 ft



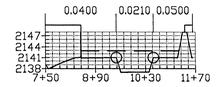
300
THE END OF FLOODWALL ON RIGHT BANK

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2122.23 ft



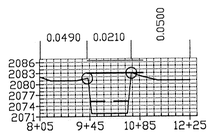
310
THE BEGINNING OF LEVEE ON LEFT BANK

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2131.54 ft



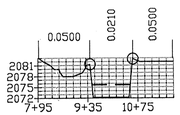
320
THE END OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2142.86 ft



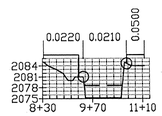
240
UPSTREAM FACE OF THE FOOTHILLS DRIVE BRIDGE
44 FEET WIDE, SINGLE SPAN

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2075.23 ft



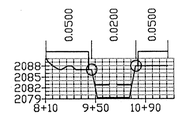
245

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2075.62 ft



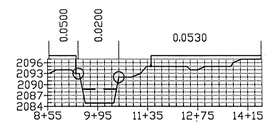
250
THE BEGINNING OF FLOODWALLS

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2078.54 ft



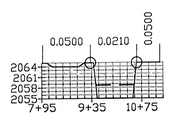
265

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2082.77 ft



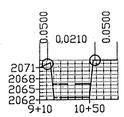
270

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2088.72 ft



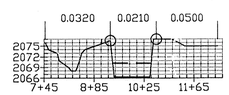
210

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2058.65 ft



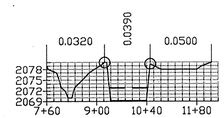
220

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2066.42 ft



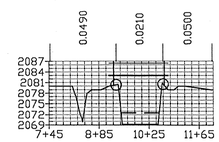
225

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2070.30 ft



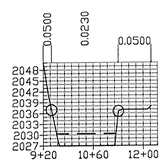
230

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2072.90 ft



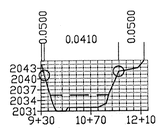
235
DOWNSTREAM FACE OF THE BRIDGE CROSSING
FOOTHILLS DRIVE

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2072.55 ft



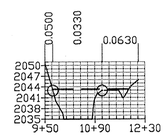
150
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2030.36 ft



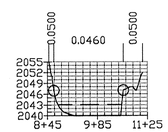
160

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2035.49 ft



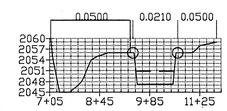
170
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2043.39 ft



180
REVEGETATED RIGHT SIDE OF CHANNEL
IMPROVEMENT WITH SANDY BOTTOM (1:1)

Profile 1
Flow Discharge = 11750.00 cfs
— — Computed Water Surface with 100 = 2043.14 ft

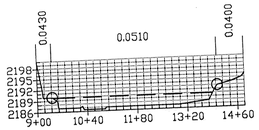


200
BEGINNING OF CONCRETE CHANNEL
1:1 SIDE SLOPE WITH SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2050.89 ft

MAIN REATA
SUPERCRITICAL 150-320

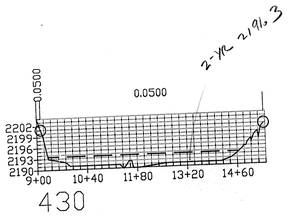
Sup.



420

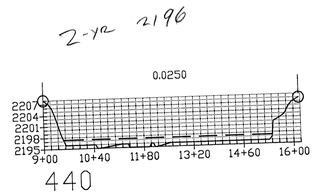
THE END OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SNADY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2189.84 ft



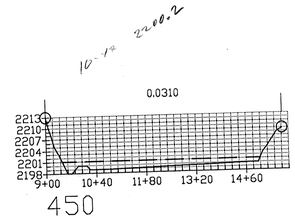
430

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2193.51 ft



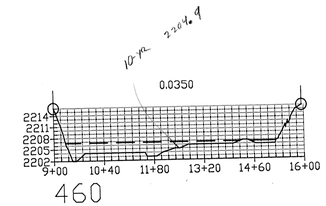
440

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2197.39 ft



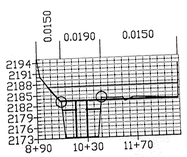
450

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2201.04 ft



460

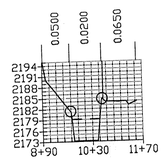
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2206.65 ft



400

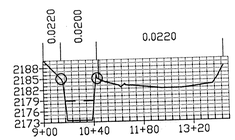
UPSTREAM FACE OF PINNACLE PEAK BRIDGE
42 FEET WIDE, TWO PIERS AND THREE SPANS

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2180.72 ft



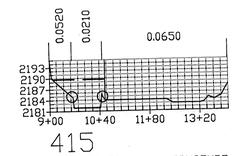
410

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2179.09 ft



414

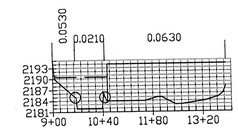
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2178.81 ft



415

THE END OF DROP STRUCTURE

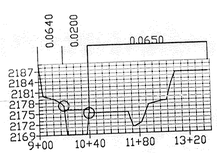
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2189.66 ft



415.1

THE BEGINNING OF DROP STRUCTURE
THE END OF FLOODWALL ON RIGHT

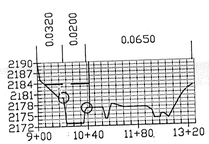
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2190.49 ft



370

THE BEGINNING OF FLOODWALL ON THE RIGHT OVERBANK

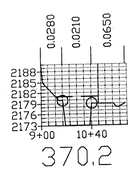
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2175.93 ft



370.1

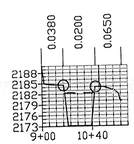
THE BEGINNING OF CONCRETE CHANNEL
WITH 1:1 SIDE SLOPE AND SANDY BOTTOM

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2183.77 ft



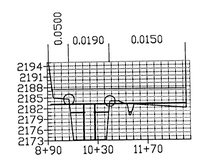
370.2

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2180.98 ft



380

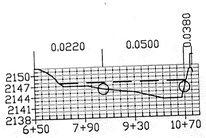
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2182.35 ft



390

DOWNSTREAM FACE OF PINNACLE PEAK BRIDGE

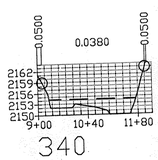
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2180.80 ft



330

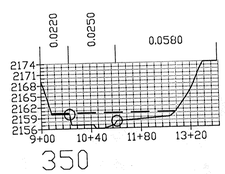
THE END OF FLOODWALLS AND LEVEES

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2147.82 ft



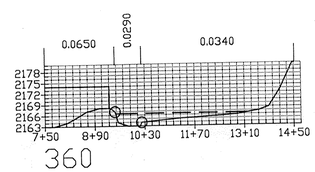
340

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2154.33 ft



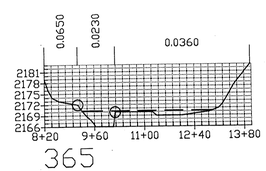
350

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2160.38 ft



360

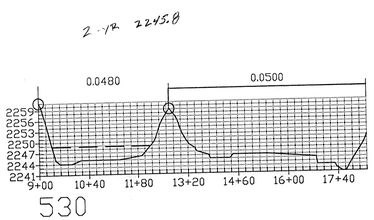
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2166.45 ft



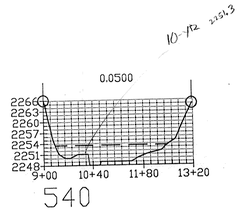
365

Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2170.32 ft

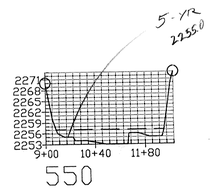
SUPERCRITICAL 330-460
MAIN REATA



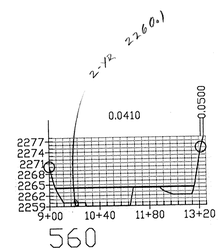
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2248.75 ft



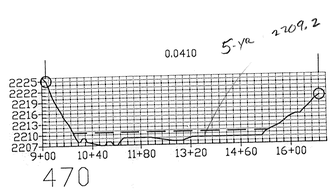
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2253.52 ft



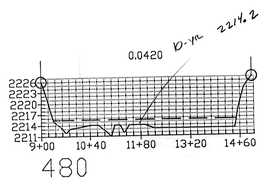
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2257.04 ft



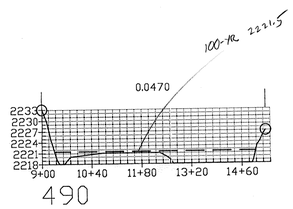
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2264.12 ft



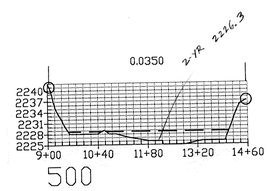
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2210.51 ft



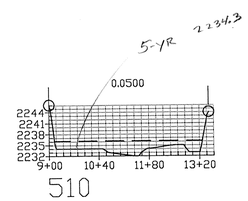
Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2215.49 ft



Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2221.44 ft



Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2228.62 ft

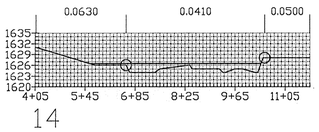


Profile 1
Flow Discharge = 11250.00 cfs
— — Computed Water Surface with 100 = 2236.14 ft

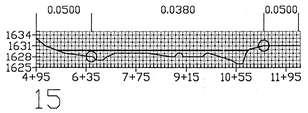
MAIN REATA
SUPERCRITICAL 470-560

REATA-MN Supercritical

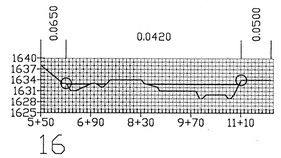
05/18/95 01:48PM REATA-MN



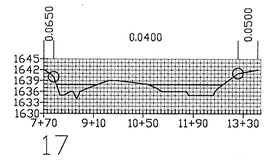
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1626.41 ft



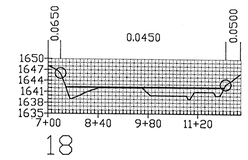
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1629.71 ft



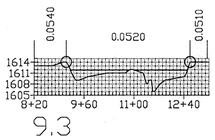
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1632.80 ft



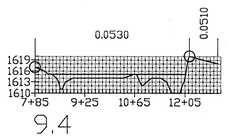
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1637.88 ft



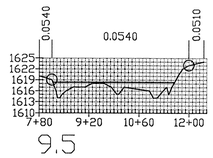
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1642.23 ft



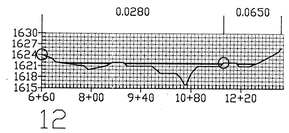
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1611.82 ft



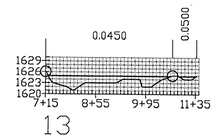
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1615.08 ft



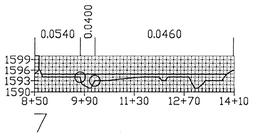
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1618.33 ft



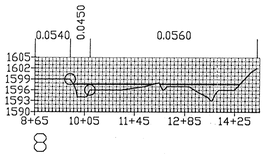
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1621.70 ft



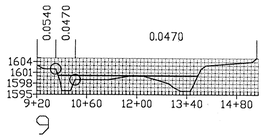
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1624.83 ft



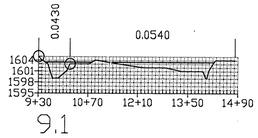
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1594.86 ft



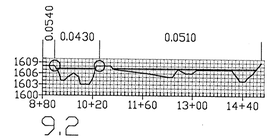
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1597.65 ft



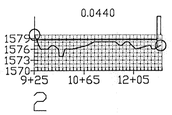
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1600.23 ft



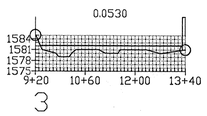
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1603.50 ft



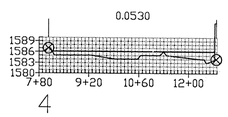
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1607.33 ft



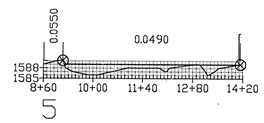
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1578.65 ft



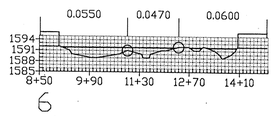
Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1582.15 ft



Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1586.10 ft



Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1589.03 ft

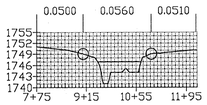


Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1591.83 ft

SOUTH BEARDSLEY
SUPERCRITICAL 2-18

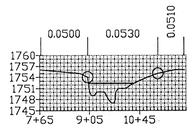
REATA-SB Supercritical

05/18/95 02:36PM REATA-SB



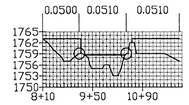
35

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1746.93 ft



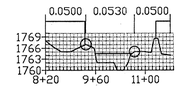
36

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1752.37 ft



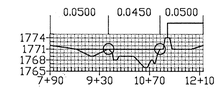
37

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1758.60 ft



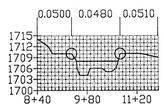
38

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1764.47 ft



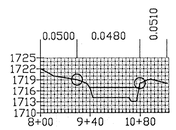
39

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1770.99 ft



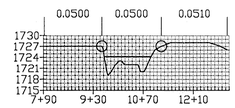
30

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1707.95 ft



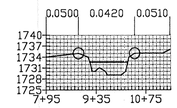
31

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1716.86 ft



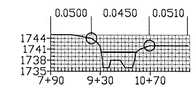
32

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1724.15 ft



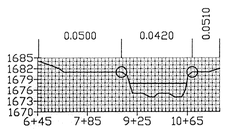
33

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1732.64 ft



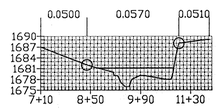
34

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1740.19 ft



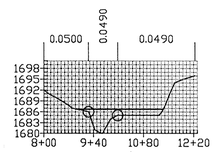
25

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1677.85 ft



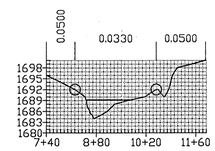
26

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1681.17 ft



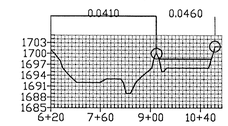
27

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1686.72 ft



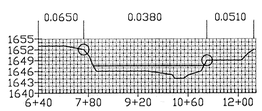
28

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1689.18 ft



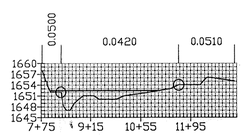
29

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1698.52 ft



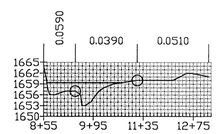
19

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1647.57 ft



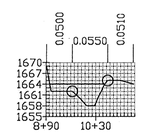
20

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1652.48 ft



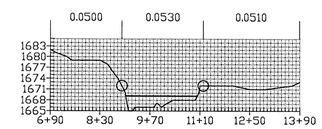
21

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1659.37 ft



22

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1664.05 ft



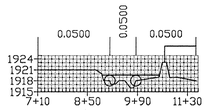
24

Profile 1
Flow Discharge = 4900.00 cfs
Computed Water Surface = 1669.24 ft

SOUTH BEARDSLEY
SUPERCRITICAL 19-39

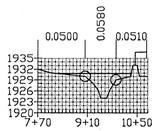
REATA-SB Supercritical

05/18/95 02:37PM REATA-SB



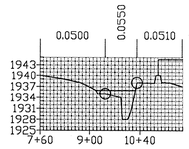
61

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1919.56 ft



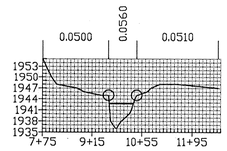
62

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1930.80 ft



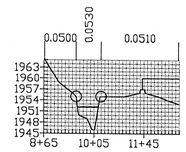
63

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1935.93 ft



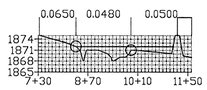
64

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1942.69 ft



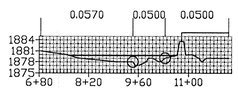
65

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1952.15 ft



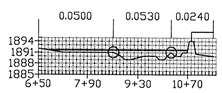
56

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1871.96 ft



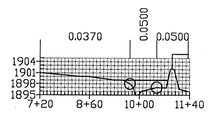
57

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1879.74 ft



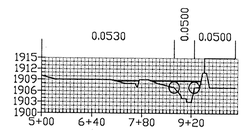
58

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1891.61 ft



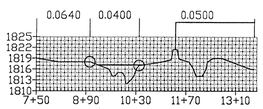
59

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1898.97 ft



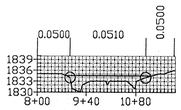
60

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1908.69 ft



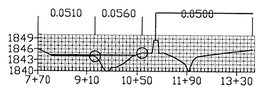
50

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1817.22 ft



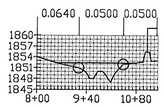
52

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1834.54 ft



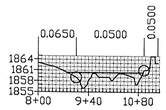
53

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1844.35 ft



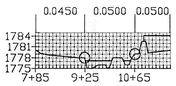
54

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1852.44 ft



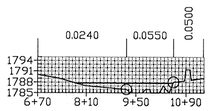
55

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1860.36 ft



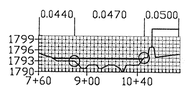
40

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1777.29 ft



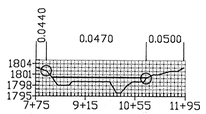
46

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1787.77 ft



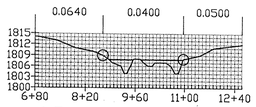
47

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1793.71 ft



48

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1800.20 ft



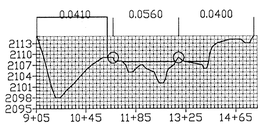
49

Profile 1
Flow Discharge = 3800.00 cfs
Computed Water Surface = 1807.85 ft

SOUTH BEARDSLEY
SUPERCRITICAL 40-65

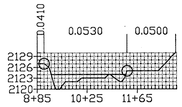
REATA-SB Supercritical

05/18/95 02:39PM REATA-SB



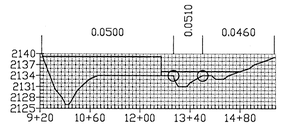
506

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2107.91 ft



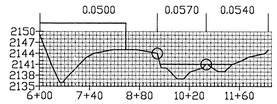
507

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2124.02 ft



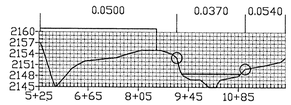
509

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2135.19 ft



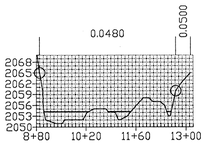
510

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2141.09 ft



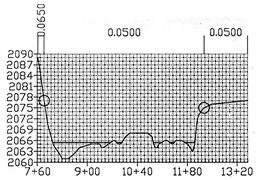
511

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2148.64 ft



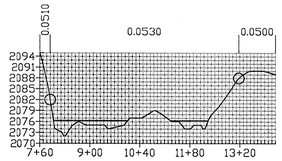
501

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2054.27 ft



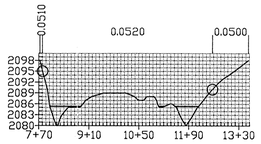
502

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2065.48 ft



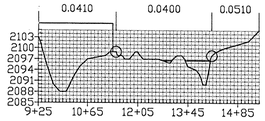
503

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2076.32 ft



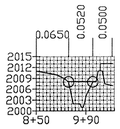
504

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2085.35 ft



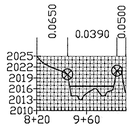
505

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2096.65 ft



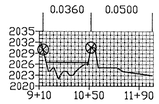
71

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2008.12 ft



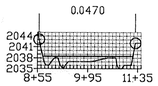
72

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2016.67 ft



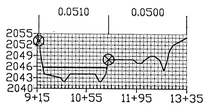
73

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2026.51 ft



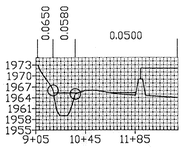
74

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2038.44 ft



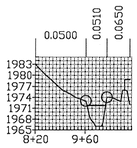
75

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2045.75 ft



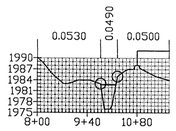
66

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 1965.30 ft



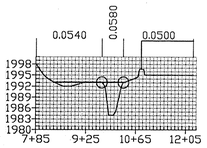
67

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 1971.74 ft



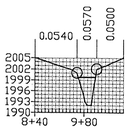
68

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 1982.72 ft



69

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 1993.06 ft



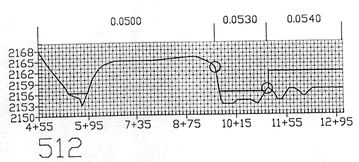
70

Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 1999.73 ft

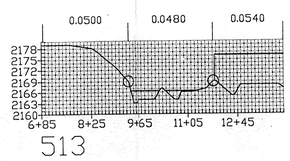
SOUTH BEARDSLEY
SUPERCRITICAL 66-511

05/18/95 02:40PM REATA-SB

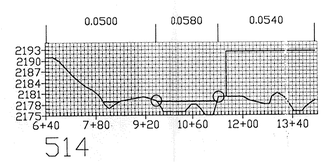
REATA-SB Supercritical



Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2156.36 ft



Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2166.39 ft

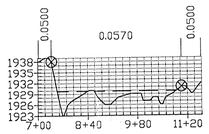


Profile 1
Flow Discharge = 3800.00 cfs
—— Computed Water Surface = 2178.81 ft

05/18/95 02:43PM REATA-SB

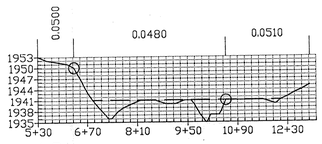
REATA-SB Supercritical

SOUTH BEARDSLEY SUPERCRITICAL 512-514



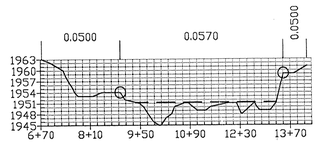
12

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1929.79 ft



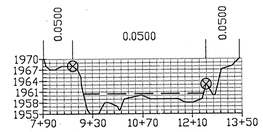
13

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1941.09 ft



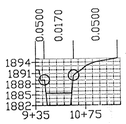
14

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1951.20 ft



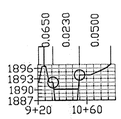
15

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1960.42 ft



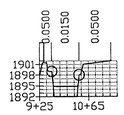
7

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1885.45 ft



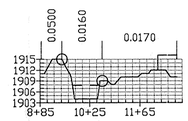
8

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1890.15 ft



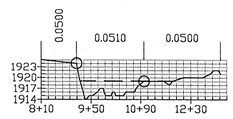
9

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1894.87 ft



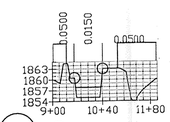
10

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1907.87 ft



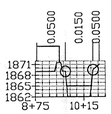
11

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1919.10 ft



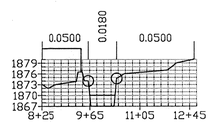
2

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1857.87 ft



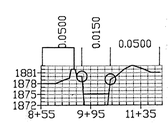
3

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1865.00 ft



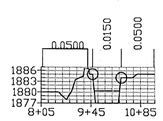
4

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1870.01 ft



5

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1875.08 ft



6

Profile 1
Flow Discharge = 6060.00 cfs
— — Computed Water Surface with 100 = 1880.38 ft

NORTH BEARDSLEY
SUPERCRITICAL 2 - 15

REATA-NB Supercritical

1

05/18/95 03:15PM REATA-NB