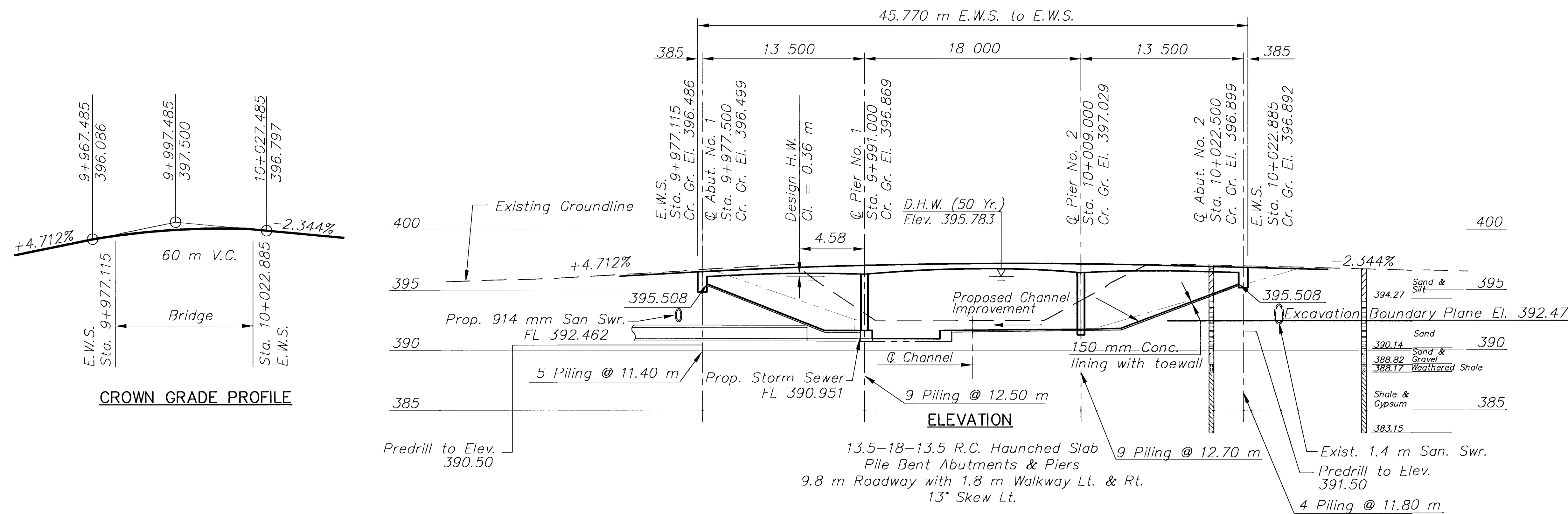


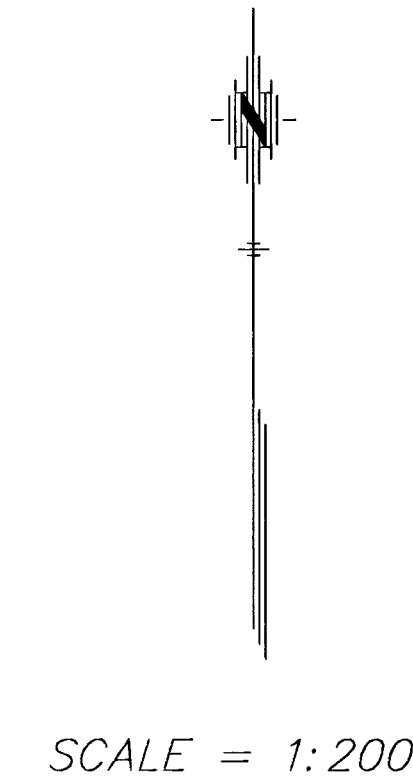
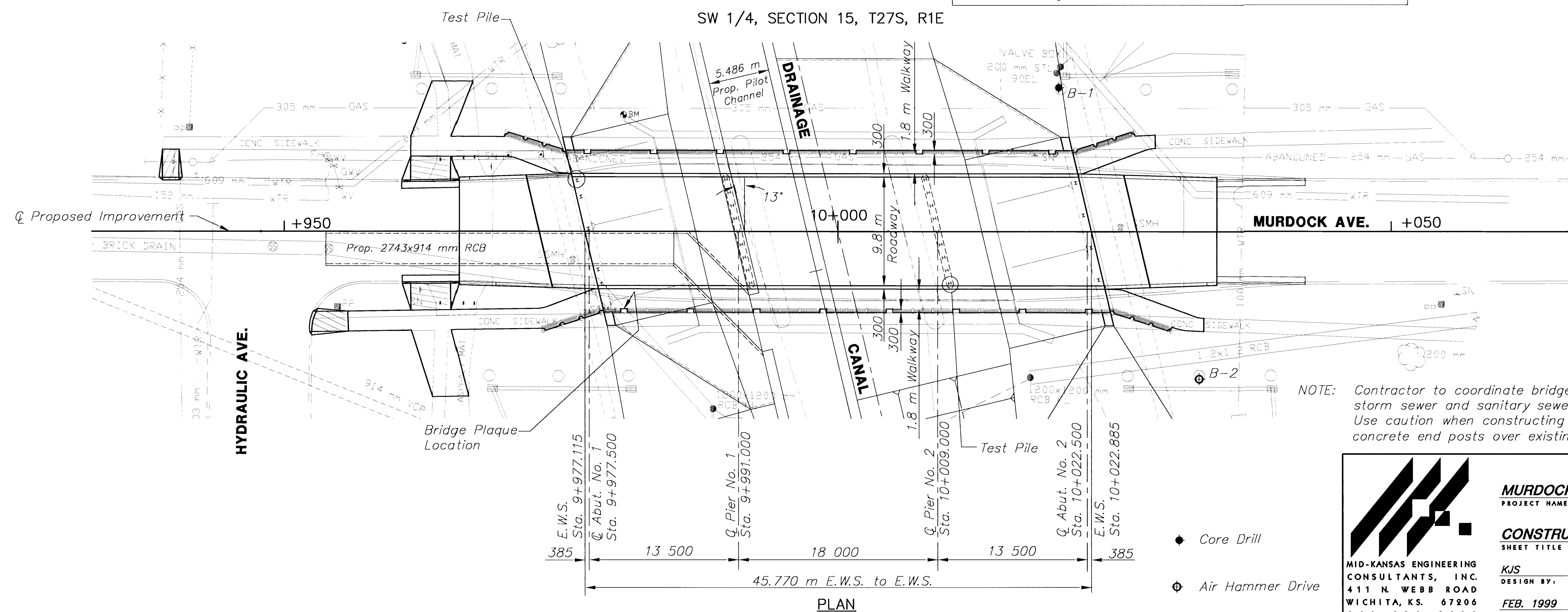


DRAINAGE DATA	
Drainage Area	57.24 km ²
Design Frequency	50 years
Design Discharge (Q 50)	246 m ³ /s
Design Highwater Elevation	395.783
Design Backwater	0.03 m
Design Backwater Elevation	395.813
Overtopping Elevation (Sta. 10+100)	396.000
Overtopping Discharge	350 m ³ /s
Overtopping Frequency	500+ years
Discharge at Q 100	288 m ³ /s
Backwater at Q 100	0.03 m
Backwater Elevation at Q 100	396.149
Historic Highwater Elevation	395.935
Ordinary Highwater Elevation	391.973
Total Waterway Provided	71 m ²
Design Waterway Provided	114 m ²
Average Design Velocity (Q 50)	2.1 m/s

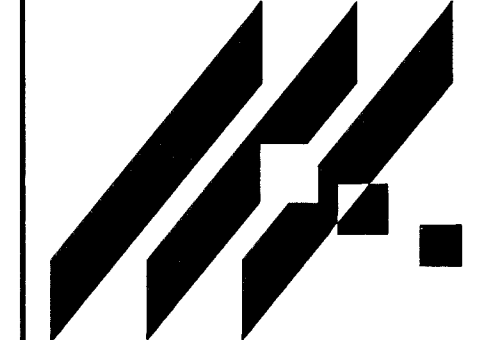
The thermal movement at the abutment is ± 5 mm.
"W" = 25 mm

BM#1 "□" Cut on the northwest corner of the west abutment of the Burlington Northern Bridge Elev. 396.965

BM#2 "□" Cut on the northeast corner of an overhead drain box at the 8th column south of 9th St. North, right bank of Wichita Drainage Canal Elev. 396.548



NOTE: Contractor to coordinate bridge construction with storm sewer and sanitary sewer construction at Abutment #1. Use caution when constructing pedestrian handrail concrete end posts over existing sanitary sewer lines.



MURDOCK AVENUE BRIDGE
PROJECT NAME

CONSTRUCTION LAYOUT
SHEET TITLE

MID-KANSAS ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

KJS	DPG	PAF
DESIGN BY:	DRAWN BY:	CHECKED BY:
FEB. 1999	97042	12 / 39
DATE	JOB NO.	SHEET / OF

K:\CIVIL\197042\PLAN\97042LAY.DWG Thu Mar 25 16:05:49 1999 BY MLW