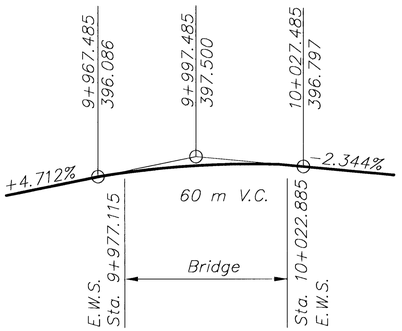
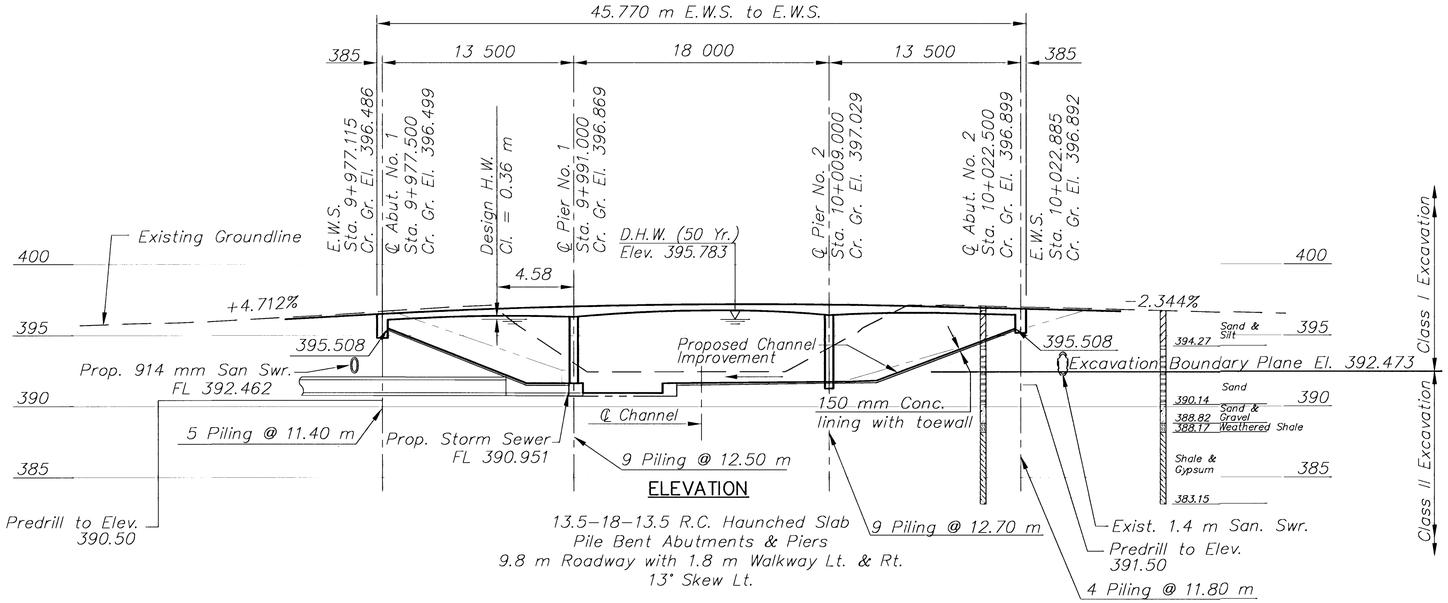


CROWN GRADE PROFILE



ELEVATION

DRAINAGE DATA

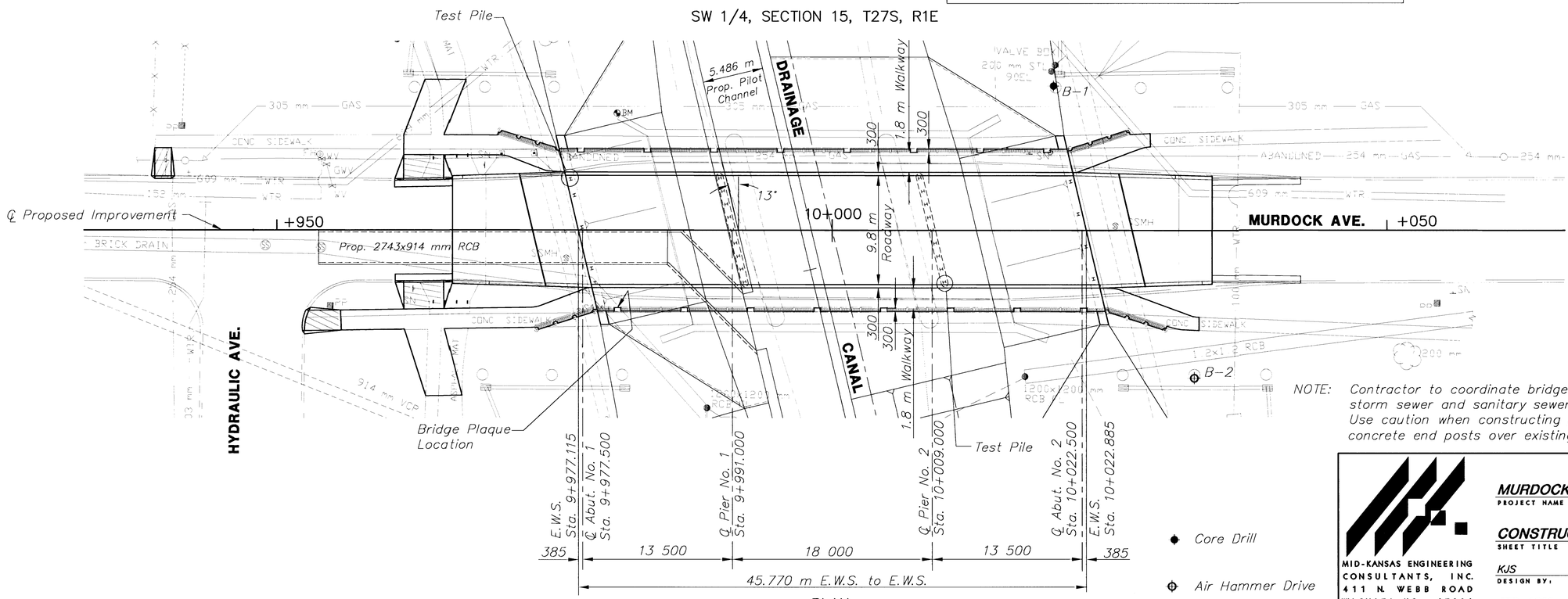
Drainage Area	57.24	km2
Design Frequency	50	years
Design Dischange (Q 50)	246	m3/s
Design Highwater Elevation	395.783	
Design Backwater	0.03	m
Design Backwater Elevation	395.813	
Overtopping Elevation (Sta. 10+100)	396.000	
Overtopping Discharge	350	m3/s
Overtopping Frequency	500+	years
Discharge at Q 100	288	m3/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	m2
Design Waterway Provided	114	m2
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

SW 1/4, SECTION 15, T27S, R1E



PLAN

SCALE = 1:200

Core Drill

Air Hammer Drive

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.

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

MURDOCK AVENUE BRIDGE
PROJECT NAME

CONSTRUCTION LAYOUT
SHEET TITLE

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

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