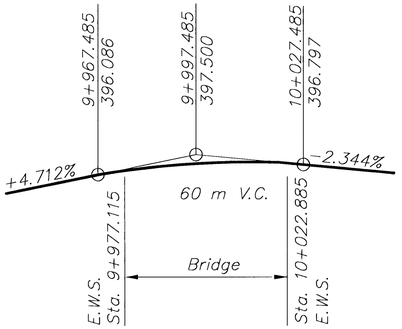
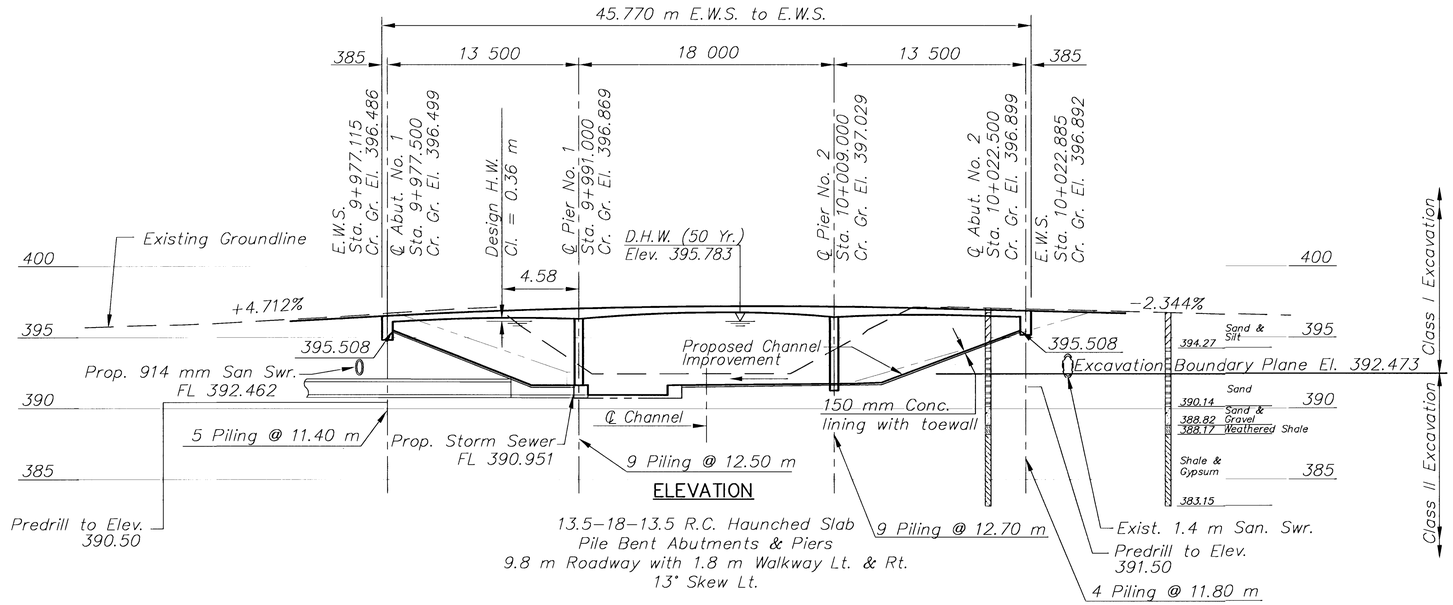


CROWN GRADE PROFILE



ELEVATION

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

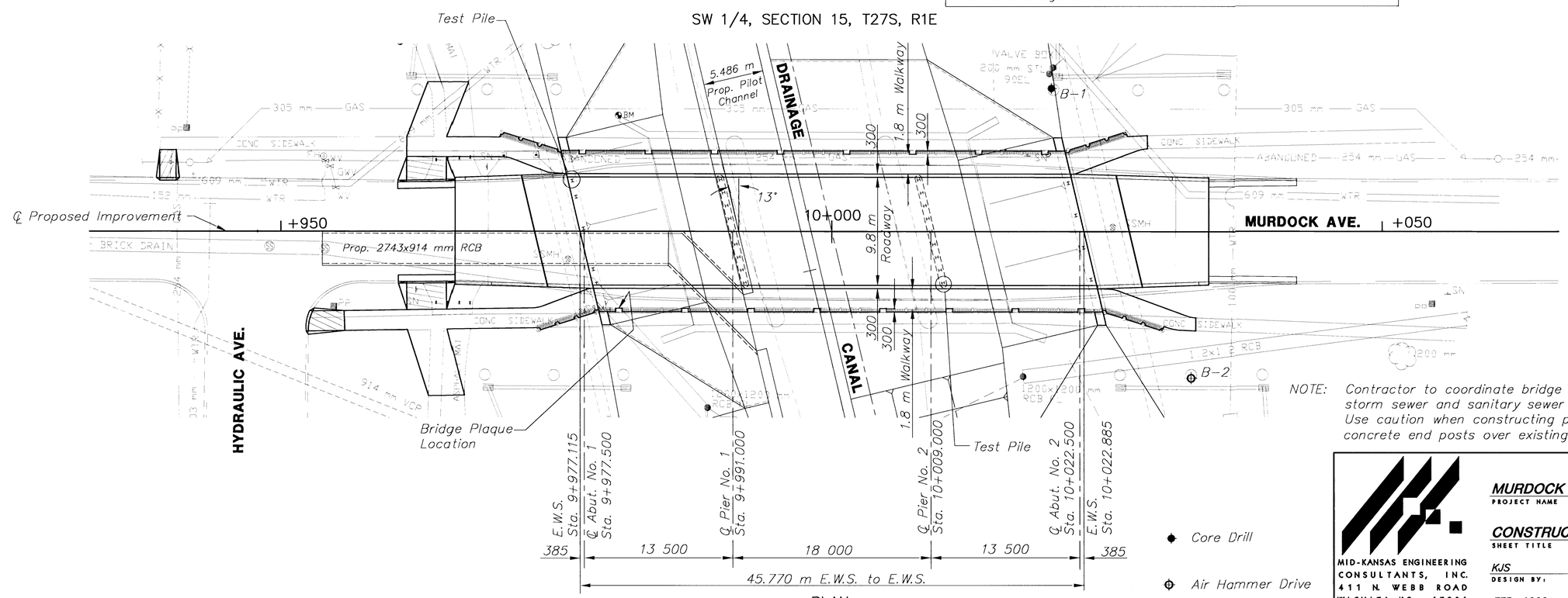
BM#2 "□" Cut on the northeast corner of an overhead drain box at the 8th column south of 9th St. North, right bank of Wichita Drainage Canal Elev. 396.548

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

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 18:05:49 1999 BY MLW