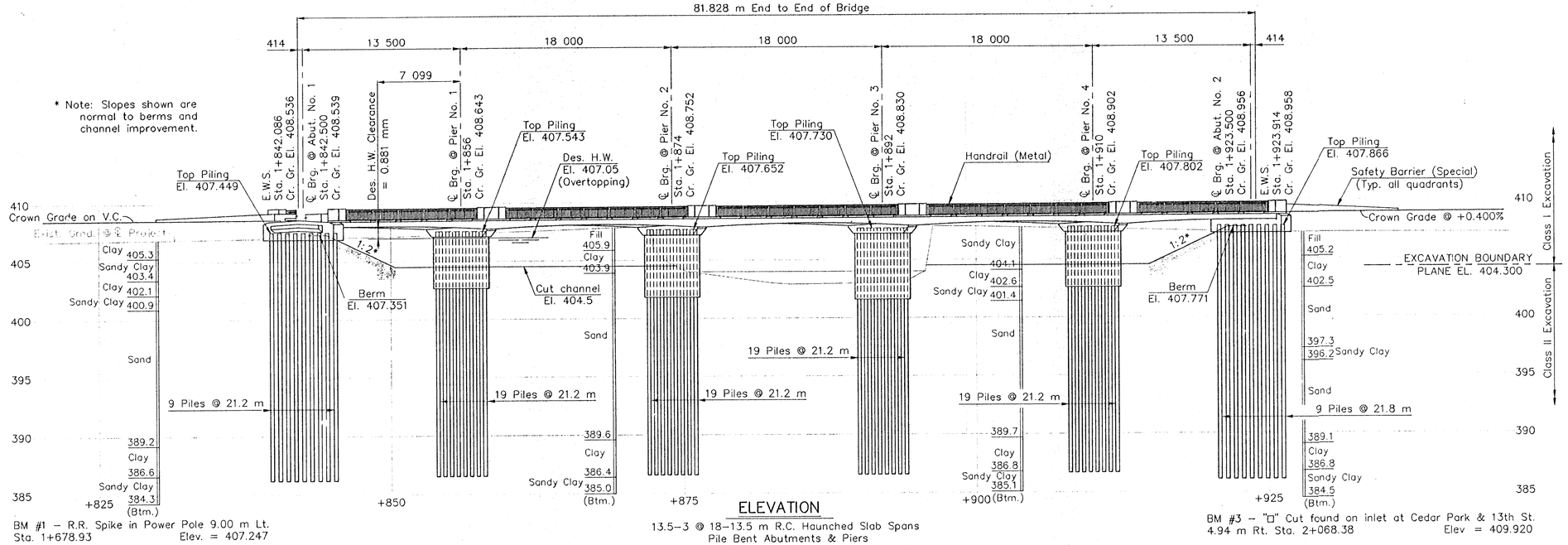
F.H.W.A. REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0230-01	2003	25	73

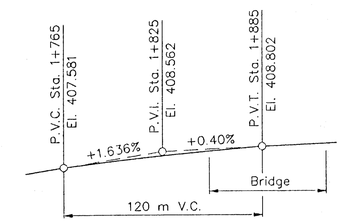


BM #1 – R.R. Spike in Power Pole 9.00 m Lt.
Sta. 1+678.93 Elev. = 407.247

ELEVATION

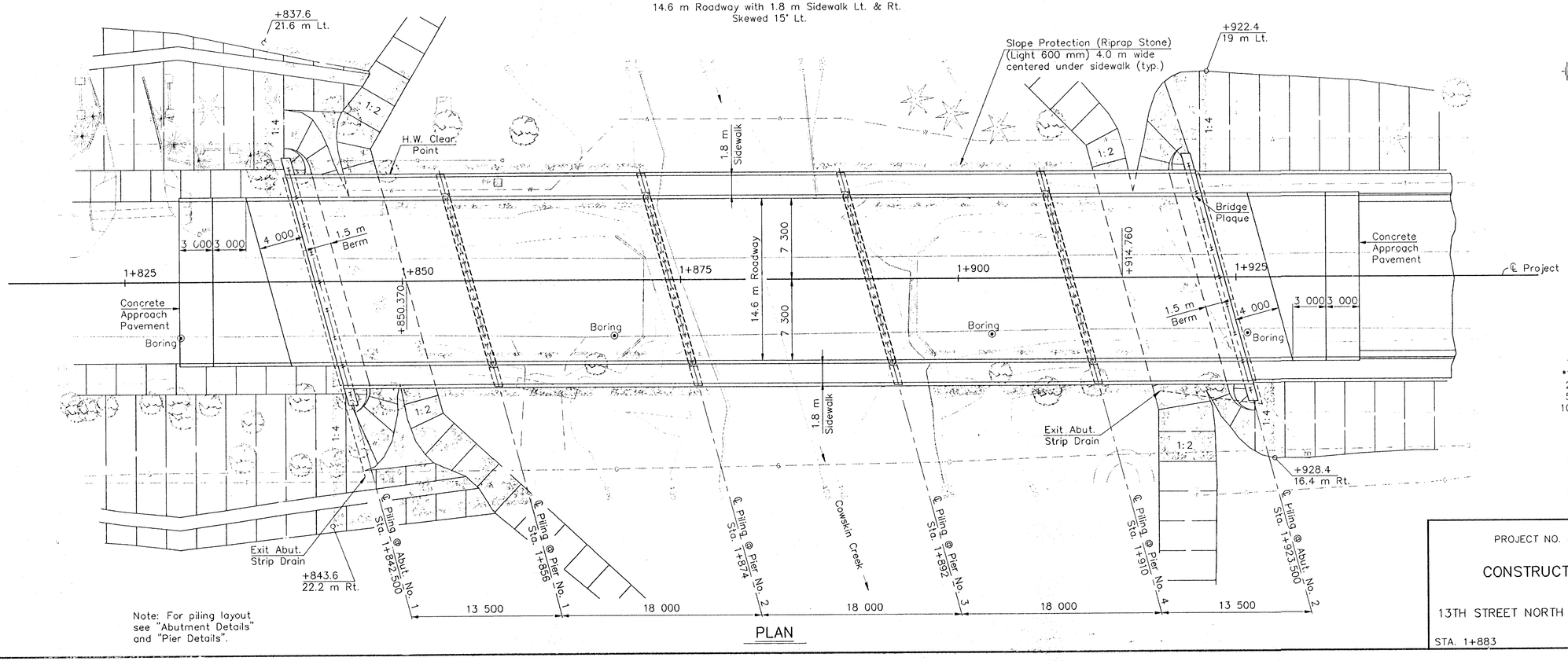
13.5–3 @ 18–13.5 m R.C. Haunched Slab Spans
Pile Bent Abutments & Piers
14.6 m Roadway with 1.8 m Sidewalk Lt. & Rt.
Skewed 15° Lt.

BM #3 – "□" Cut found on inlet at Cedar Park & 13th St.
4.94 m Rt. Sta. 2+068.38 Elev = 409.920



V.C. DATA

Note: Thermal movement at the abutments = ℄11 mm. (Type C only) W = 63 mm.



Scale = 1:200

Note: For piling layout see "Abutment Details" and "Pier Details".

PLAN

DRAINAGE DATA

DRAINAGE AREA = 207.6 sq km
OBSERVED H.W. ELEV. = 407.0

FLOOD	Q–m³/s	V–m/s	**ELEVATION
10 YEAR	182	1.4	406.58
*15 YEAR	212	1.5	407.05
25 YEAR	262	1.5	407.26
50 YEAR	337	1.5	407.53
100 YEAR	416	1.4	407.74

* OVERTOPPING
** INCLUDES BACKWATER

DESIGN WATERWAY PROVIDED (BELOW ELEV. 407.05) = 191 sq m
TOTAL WATERWAY PROVIDED = 270 sq m
DESIGN FREQUENCY = 15 YEAR

PROJECT NO. 87 N-0230-01

CONSTRUCTION LAYOUT

13TH STREET NORTH OVER COWSKIN CREEK

STA. 1+883 CITY OF WICHITA

Cook, Flatt & Strobel
ENGINEERS, P.A.

DESIGNED	KMB	SCALE	
DETAILED	DEG	DATE	
QUANTITIES	DEG	SHEET	OF

J:\02517\DWGS\CL 1:200 (1:2)