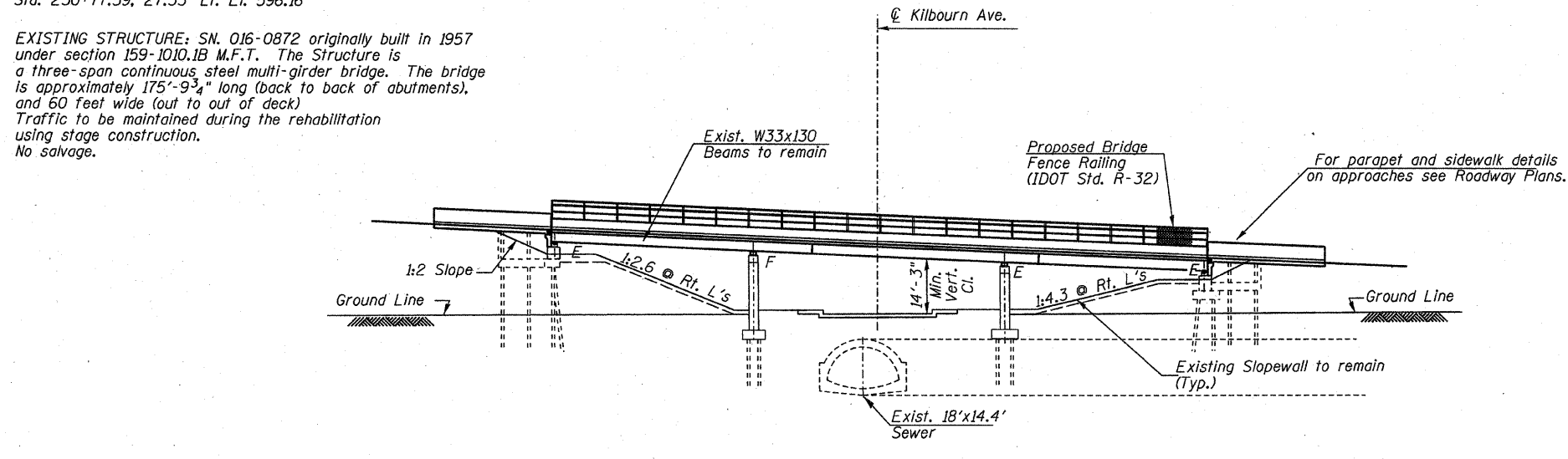
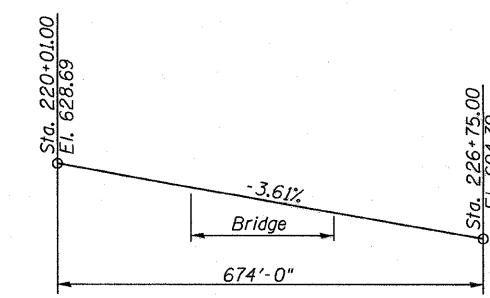


BENCHMARK BM103
Set chiseled cross on sidewalk on NE corner of the intersection of 31st Street and Kostner Avenue Sta. 230+77.59, 27.33' Lt. El. 596.16

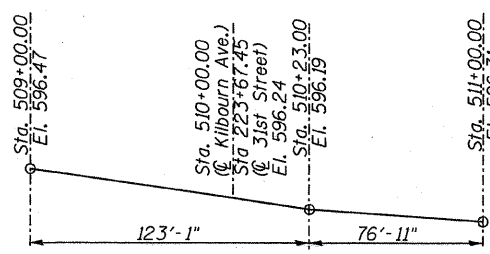
EXISTING STRUCTURE: SN. 016-0872 originally built in 1957 under section 159-1010.1B M.F.T. The Structure is a three-span continuous steel multi-girder bridge. The bridge is approximately 175'-9 3/4" long (back to back of abutments), and 60 feet wide (out to out of deck). Traffic to be maintained during the rehabilitation using stage construction. No salvage.



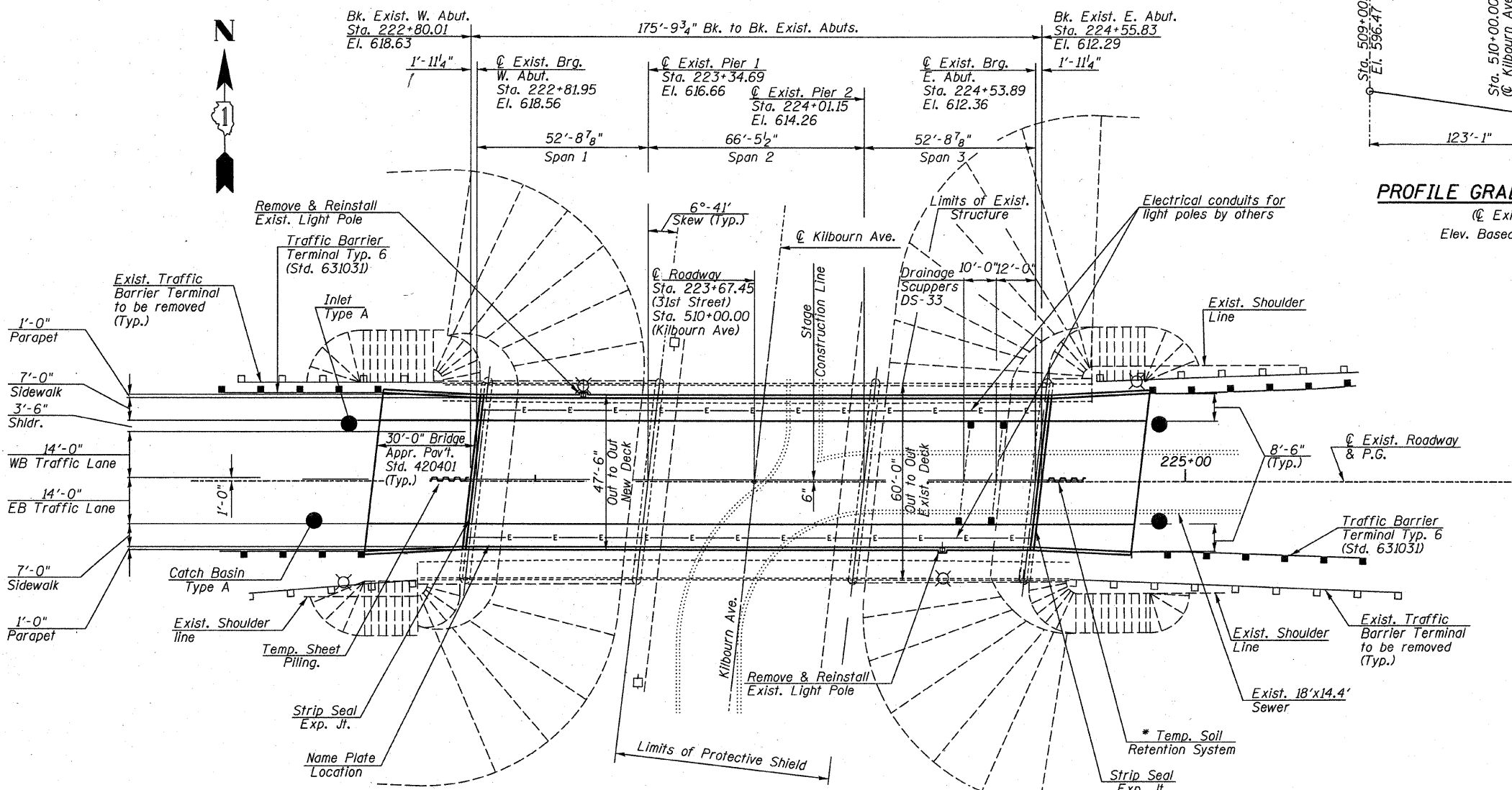
ELEVATION



PROFILE GRADE 31ST STREET
(@ Exist. Roadway)



PROFILE GRADE KILBOURN AVE.
(@ Exist. Roadway)
Elev. Based off Survey Data



PLAN

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges

DESIGN STRESSES

(NEW CONSTRUCTION)

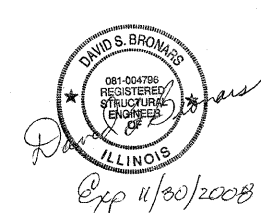
$f'_c = 3,500$ psi
 $f_y = 36,000$ psi (AASHTO M270, Gr. 36)
 $f_y = 60,000$ psi (reinforcement)

(EXISTING CONSTRUCTION)

$f'_c = 800$ psi (w/Earth pressure)
 $f_y = 33,000$ psi (structural steel)
 $f_y = 40,000$ psi (reinforcement)

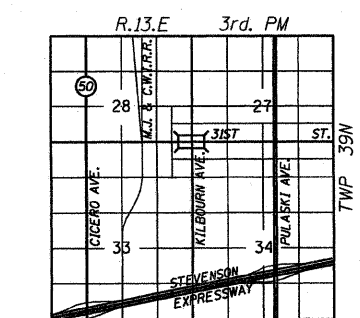
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

- Notes:
- For approach pavement, see roadway drawings.
 - For quantity of "Remove & Reinstall Light Poles", see roadway drawings.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
31 ST. STREET OVER KILBOURN AVE.
F.A.U. ROUTE 1463 SECTION 159-1010.1B
COOK COUNTY
STATION 223+67.45
STR. NO. 016-0872
SCALE: VERT. HORIZ.
DATE JANUARY 2008
DRAWN BY JHR
CHECKED BY CLS

* Contractor to note existing sewer located below @ 31 st Street.