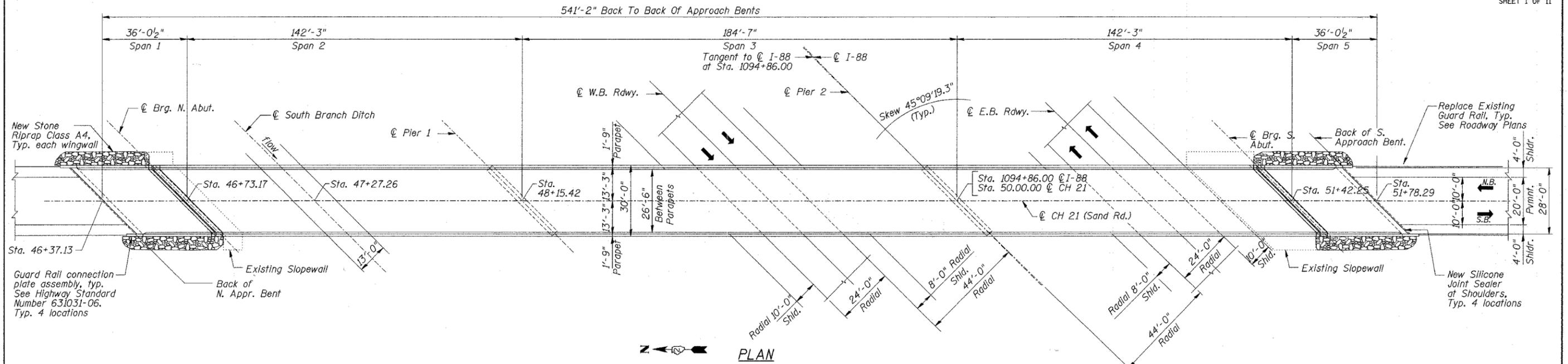
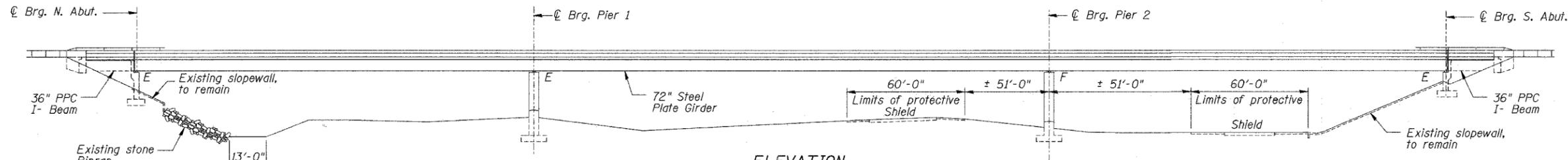


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	1195-1HB-21M	WHITESIDE	17	7
STA. 44+17 TO STA. 55+10				
FED. AID PROJECT ILLINOIS FED. ROAD DIST. NO.				



PLAN



ELEVATION
(Dimensions normal to CH21 (Sand Rd.))

DESIGN STRESSES

New Construction
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $F_y = 50,000$ psi (structural steel M270 Gr. 50)

TOTAL BILL OF MATERIALS

ITEM	UNITS	TOTAL
Stone Riprap Class A4	Sq. Yd.	120
Hot Mix Asphalt Surface Course Mix "C", N50	Ton	130.4
Protective Coat	Sq. Yd.	37
Hot Mix Asphalt Surface Removal Complete	Sq. Yd.	1,579
Concrete Removal	Cu. Yd.	15.7
Protective Shield	Sq. Yd.	320
Concrete Superstructure	Cu. Yd.	17.2
Reinforcement Bars, Epoxy Coated	Pound	2,360
Fabric Reinforced Elastomeric Trough	Foot	40
Preformed Joint Strip Seal	Foot	40
Finger Plate Expansion Joint, 4"	Foot	37.5
Sheet Waterproofing Membrane System	Sq. Yd.	1,552
Plug Existing Deck Drains	Each	50
Silicone Joint Sealer 1"	Foot	24
Mechanical Splice	Each	70
Structural Repair of Concrete (Depth <= 5")	Sq. Ft.	223
Drainage Scuppers, DS-33	Each	4
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	50
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	56
Deck Slab Repair (Partial)	Sq. Yd.	359

GENERAL NOTES

All new structural steel shall conform to AASHTO M-270 Gr. 50, unless otherwise noted.

All new fasteners shall be AASHTO M164 Type I, Mechanically galvanized bolts. Holes shall be $\frac{1}{16}$ " diameter for $\frac{3}{4}$ " diameter bolts, unless otherwise noted. Holes shall be $\frac{1}{16}$ " diameter for $\frac{7}{8}$ " diameter bolts, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for work.

Layout of proposed slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and all other loose, potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that can not be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.

Quantities for deck slab repair are approximate. Quantity of Deck Slab Repair (Full Depth, Type I) and Deck Slab Repair (Full Depth, Type II) are each assumed to be equal to 2.50% of the deck area. Quantity of Deck Slab Repair (Partial) is assumed to be equal to 20.0% of the deck area. Locations will be determined by the Resident Engineer following removal of the Hot Mix Asphalt surface course. Actual repair locations shall be shown on the as-built plans. Contractor will be paid for the quantity furnished.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures." Cost included with Finger Plate Expansion Joint, 4".

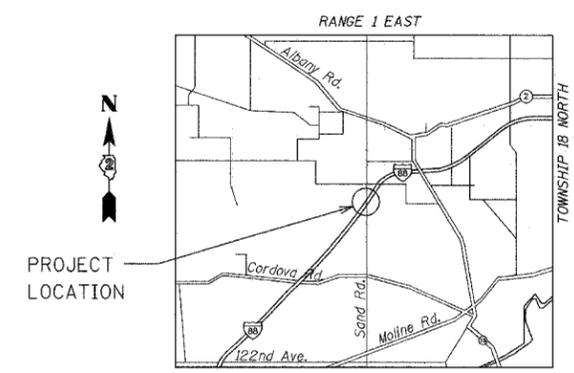
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Finger Plate Expansion Joint, 4".

Joint openings shall be adjusted according to article 520.04 of the standard specifications when the deck is poured at an ambient temperature other than 50°F.

Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.



EXPIRES: 11/30/08



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CH21 (SAND ROAD) BRIDGE OVER I-88
 STRUCTURE NO: 098-0056
 SECTION: 1195-1HB-21M
 BRIDGE REHABILITATION

GENERAL PLAN & ELEVATION
 SCALE: NTS
 DATE: 2-07-2007
 DRAWN BY: M.M.
 CHECKED BY: K.G.W.

REVISIONS	
NAME	DATE