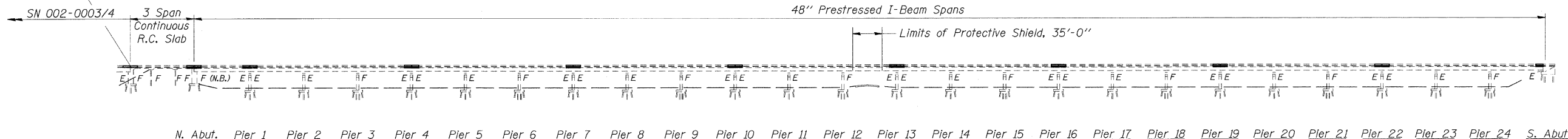


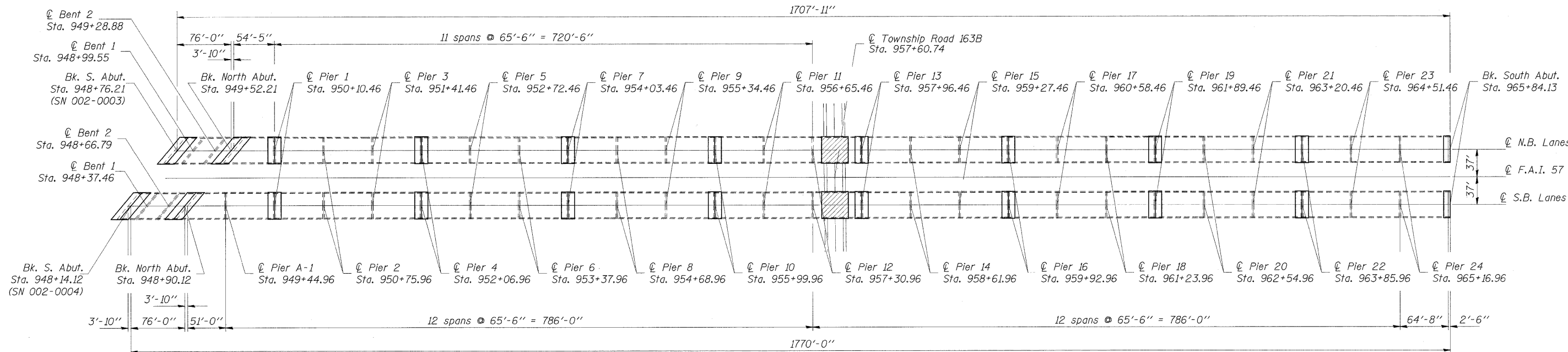
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Joint replacement details & quantities
at this location included with SN 002-0003/4,
see sheet 11.



N. Abut. Pier 1 Pier 2 Pier 3 Pier 4 Pier 5 Pier 6 Pier 7 Pier 8 Pier 9 Pier 10 Pier 11 Pier 12 Pier 13 Pier 14 Pier 15 Pier 16 Pier 17 Pier 18 Pier 19 Pier 20 Pier 21 Pier 22 Pier 23 Pier 24 S. Abut.

ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	285.1
Concrete Superstructures	Cu. Yd.	313.9
Bridge Deck Grooving	Sq. Yd.	11648
Bar Splicers	Each	330
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	12
Reinforcement Bars, Epoxy Coated	Pound	57210
Plug Existing Deck Drains	Each	292
Preformed Joint Strip Seal	Foot	711
Floor Drain Extension	Each	390
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	11966
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	11966
Protective Coat	Sq. Yd.	12630
HMA Surface Removal (Deck)	Sq. Yd.	12523
Protective Shield	Sq. Yd.	280
Elastomeric bearing Assembly, Type II	Each	1
Jack and Remove Existing Bearings	Each	1
Anchor Bolts 1"	Each	4

GENERAL NOTES

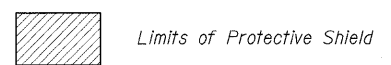
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of 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 the work.
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

DESIGN STRESSES

NEW CONSTRUCTION
Field Units
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

ORIGINAL CONSTRUCTION
Field Units
 $f'_c = 1,400$ psi (super & sub)
 $f_s = 20,000$ psi (reinforcement)
 $vc = 75$ psi
 $n = 10$

Precast Prestressed Units
 $f'_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f'_s = 248,000$ psi (T_{16} "φ stress relieved strands)
 $f_{sl} = 173,600$ psi (T_{16} "φ stress relieved strands)

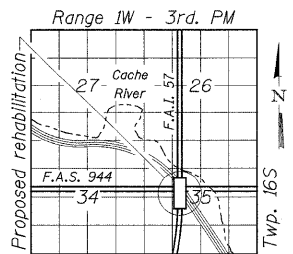


SCOPE OF WORK

1. Remove existing HMA overlay.
2. Hydroscarify deck 1/2".
3. Perform full depth patching.
4. Remove and replace expansion joints at north & south abutments and piers 1, 4, 7, 10, 13, 16, 19, & 20.
5. Apply 2 1/2" microsilica overlay and protective coat.
6. Substructure repair at SN 002-0002 pier 4.



Expires 11/30/2010



LOCATION SKETCH

GENERAL PLAN
SECTION D9 BSMART 2010-1
F.A.I. RTE. 57 OVER TOWNSHIP ROAD 163B
ALEXANDER COUNTY
STRUCTURE NO. 002-0001 (N.B.)
STRUCTURE NO. 002-0002 (S.B.)

FILE NAME =	USER NAME = corne11m	DESIGNED - TWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION SN 002-0001 & 002-0002	SCALE: SHEET NO. OF SHEETS STA. TO STA.	F.A.I. RTE. 57	SECTION D9 BSMART 2010-1	COUNTY ALEXANDER	TOTAL SHEETS 25	SHEET NO. 17
es:\pw\work\1PW\DOT\CORNELLM\02172009\02-0001.0002-sht-plan.dgn	PLOT SCALE = 16.0000' / 1".	CHECKED - MAS	REVISED -				CONTRACT NO. 78173				
PLOT DATE = 2/18/2010	DATE = 11/20/09	REVISED -	REVISED -				ILLINOIS FED. AID PROJECT				