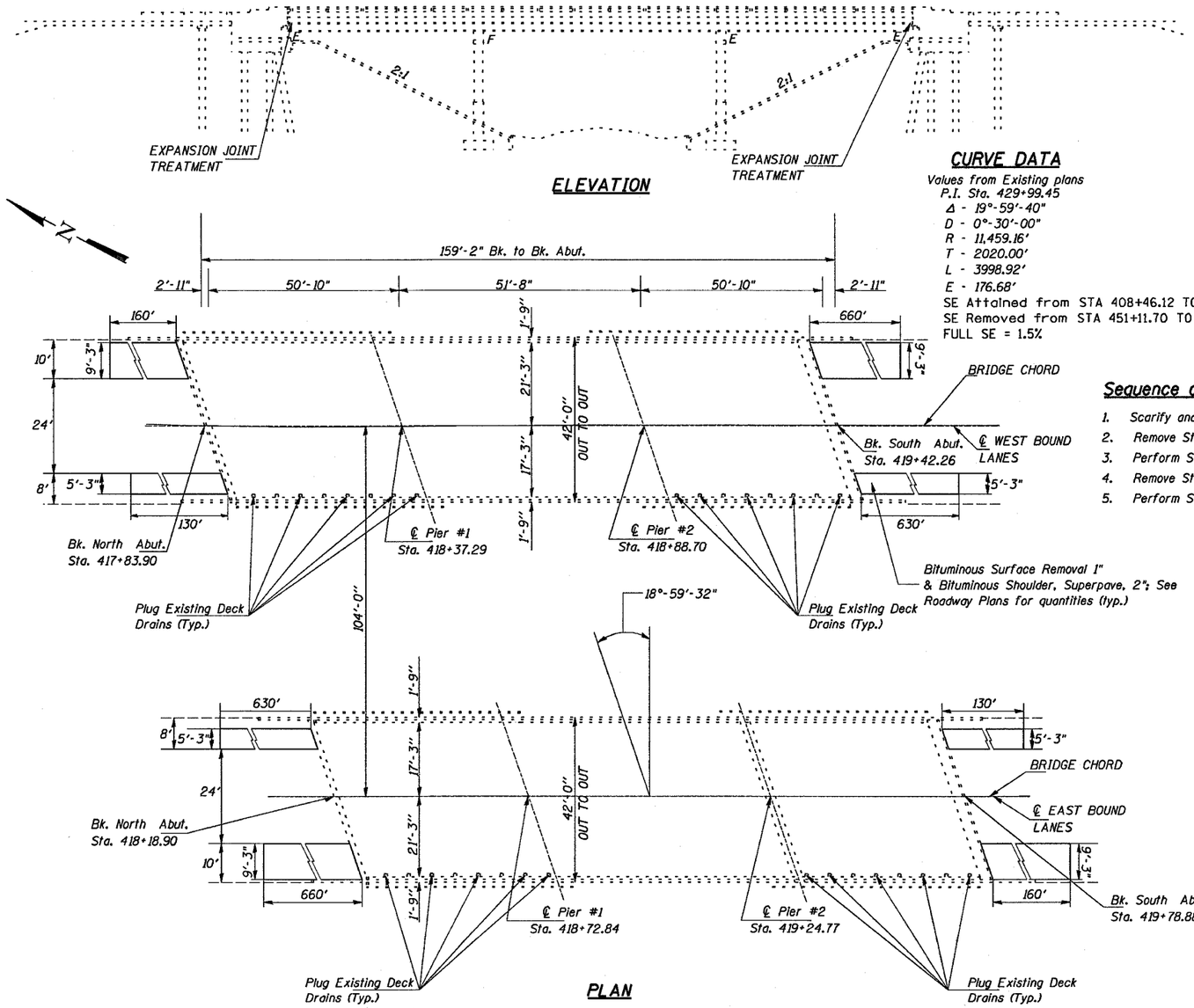
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
24	•	JOHNSON	150	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• BSMART FY04-3
98836



CURVE DATA

Values from Existing plans
P.I. Sta. 429+99.45
Δ - 19°-59'-40"
D - 0°-30'-00"
R - 11,459.16'
T - 2020.00'
L - 3998.92'
E - 176.68'
SE Attained from STA 408+46.12 TO STA 410+46.12
SE Removed from STA 451+11.70 TO STA 449+11.70
FULL SE = 1.5%

Sequence of Construction

1. Scarify and Resurface Existing Shoulders
2. Remove Stage I Areas
3. Perform Stage I Repairs and Overlay
4. Remove Stage II Areas
5. Perform Stage II Repairs and Overlay

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the 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.

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

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".

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Scope of Work

Scarify existing ±9" thick bituminous shoulders and resurface with bituminous shoulders.
Scarify existing bare deck
Partial depth deck patching
Eliminate every other drain and drains within 10' of abutments and piers
Microsilica Concrete Overlay
Expansion Joint Treatment

Design Stresses

Field Units
New Construction
f'_c = 3,500 psi
f_s = 60,000 psi (reinforcement)
Existing Structure
f_c = 1,200 psi (hatchblock)
f_s = 20,000 psi (reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	0043	0044
Concrete Bridge Deck Scarification (1/2 inch)	Sq. Yd.	1332	666	666
Deck Slab Repair (Partial Depth)	Sq. Yd.	27	13.7	13.3
Plug Existing Deck Drains	Each	20	10	10
Bridge Deck Microsilica Concrete Overlay 2¼"	Sq. Yd.	1332	666	666
Concrete Removal	Cu. Yd.	9.7	4.85	4.85
Reinforcement Bars, Epoxy Coated	Pound	1000	500	500
Bar Splicers	Each	16	8	8
Concrete Superstructure	Cu. Yd.	10.6	5.3	5.3
Polymer Concrete	Cu. Ft.	16.5	8.25	8.25
Silicone Joint Sealer 1½	Foot	85	42.5	42.5
Silicone Joint Sealer 2"	Foot	85	42.5	42.5
Bridge Deck Grooving	Sq. Yd.	1263	631.5	631.5

DESIGNED	TWH MAS
CHECKED	MAS
DRAWN	LD TEB
CHECKED	MAS

GENERAL PLAN AND ELEVATION
FAI 24 OVER TUNNEL HILL STATE TRAIL
JOHNSON COUNTY
STA. 418+80.47
SN 044-0043 (WB)
SN 044-0044 (EB)