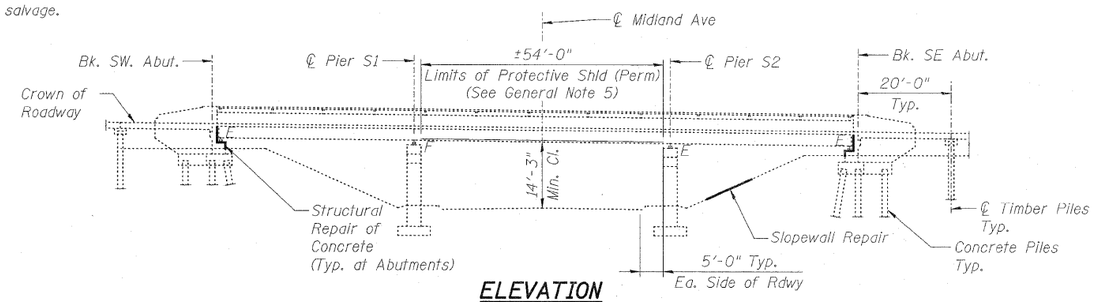
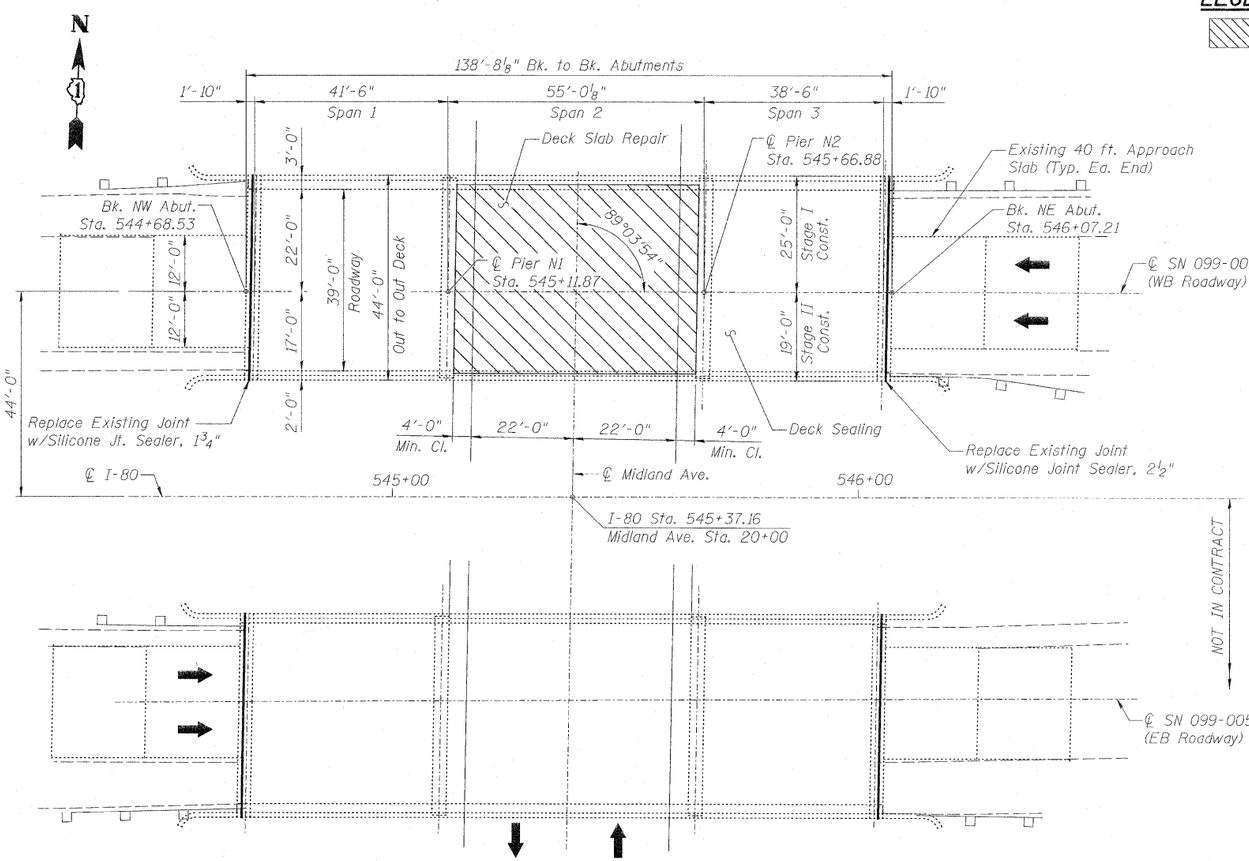
Existing Structures:
Dual bridges, S/N 099-0050 carrying I-80 Eastbound and S/N 099-0051 carrying I-80 Westbound over Midland Avenue were originally constructed in 1964 as part of F.A.I. 80 Project, I-80-4(20)132, Section 99-2HB-4. Both bridge decks were repaired and overlayed in 1992. Deck expansion joint at west abutment of SN 099-0050 was partially repaired in 2001. Superstructures consist of three continuous span wide flange structure supported on concrete abutments and piers.

Stage construction shall be utilized to maintain traffic during construction.

No salvage.



ELEVATION



PLAN

INDEX OF SHEETS

S1. General Plan, Notes, and Total Bill of Material
S2. Construction Staging
S3. Deck and Expansion Joint Repairs
S4. Abutment and Slopewall Repair
S5. Permanent Protective Shield
S6. Temporary Concrete Barrier for Stage Construction

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges. 17th Edition

DESIGN STRESSES

FIELD UNITS:
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LEGEND

Protective Shield (Permanent)

SCOPE OF WORK

1. Install protective shield.
2. Full depth and partial depth deck slab repair.
3. Seal concrete bridge deck.
4. Remove and replace preformed joint seals with silicone joint sealer.
5. Repair structural concrete at abutments.
6. Repair slopewall at northeast abutment

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.

2. Concrete Sealer shall be applied to the entire top surface of bridge deck and inside vertical face of curbs. All work shall be performed in accordance with the provisions of Section 587 of the Standard Specification. When directed by the Engineer, all surfaces to be coated shall be thoroughly cleaned by power washing or other appropriate means prior to the application of Concrete Sealer. Cleaning is included with the cost of "Concrete Sealer". Existing pavement markings shall be temporarily covered prior to application of the deck surface treatment, to prevent the material from being applied to the markings. The temporary covering shall be removed after application of the deck surface treatment and prior to opening to traffic. Cost included with "Concrete Sealer".

3. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. Contractor should verify dimensions and make necessary approved adjustments prior to starting construction. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for actual quantity furnished and approved by Engineer at unit price bid for the work.

4. Areas of proposed deck repairs are estimated. Actual type, location and dimension of deck repairs are to be determined by the Engineer during construction.

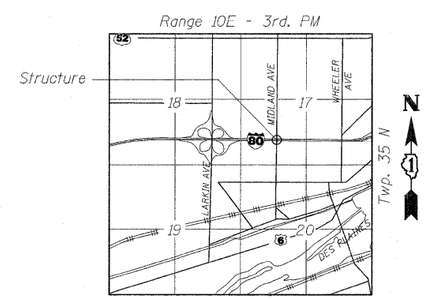
5. Protective shield shall be installed prior to start of Deck Slab Repair work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granual Embankment	Cu. Yd.	-	20	20
Slopewall Removal	Sq. Yd.	-	14	14
Slopewall, 4"	Sq. Yd.	-	14	14
Concrete Sealer	Sq. Ft.	5,689	-	5,689
Protective Shield (Permanent)	Sq. Yd.	240	-	240
Structural Repair of Concrete (Depth =< 5")	Sq. Ft.	-	31	31
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	-	84	84
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4	-	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	19	-	19
Deck Slab Repair (Partial)	Sq. Yd.	20	-	20
Silicone Joint Sealer, 1 3/4"	Foot	45	-	45
Silicone Joint Sealer, 2 1/2"	Foot	45	-	45

STATE OF ILLINOIS
ATALAY YARGICOGLU
081-005358
CHICAGO, IL
LICENSED STRUCTURAL ENGINEER

SIGNED:
DATE: 02/08/2011
EXP: 11/30/2012
SHEETS: S1 THRU S6



LOCATION SKETCH

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PLOT SCALE = 1:16	CHECKED - A.Y./R.L.D.	REVISED -	
PLOT DATE = 2/8/2011	DATE - 01/20/2011	REVISED -	

HBP Illinois Partners

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN, NOTES, AND TOTAL BILL OF MATERIAL
WESTBOUND I-80 OVER MIDLAND AVENUE
SN 099-0051

SCALE: | SHEET S1 OF S6 | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99 (4&4-1) RS-3	WILL	203	93

CONTRACT NO. 60M66

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

\\fs1\tranprojects\idot\21050.005 (I-80 phase II)\drawings\cadd sheets\bridge p&e\midland\wb\099-0051-D160M66-GPE-Midland.dgn