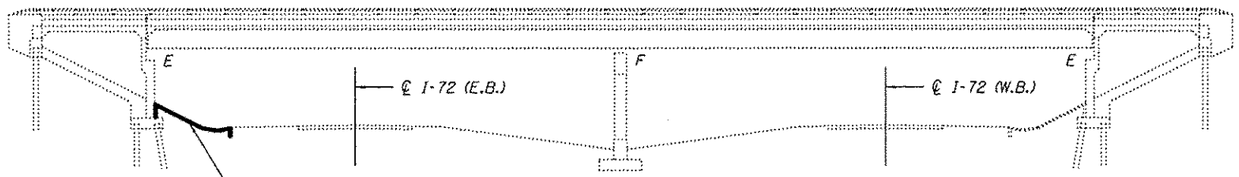
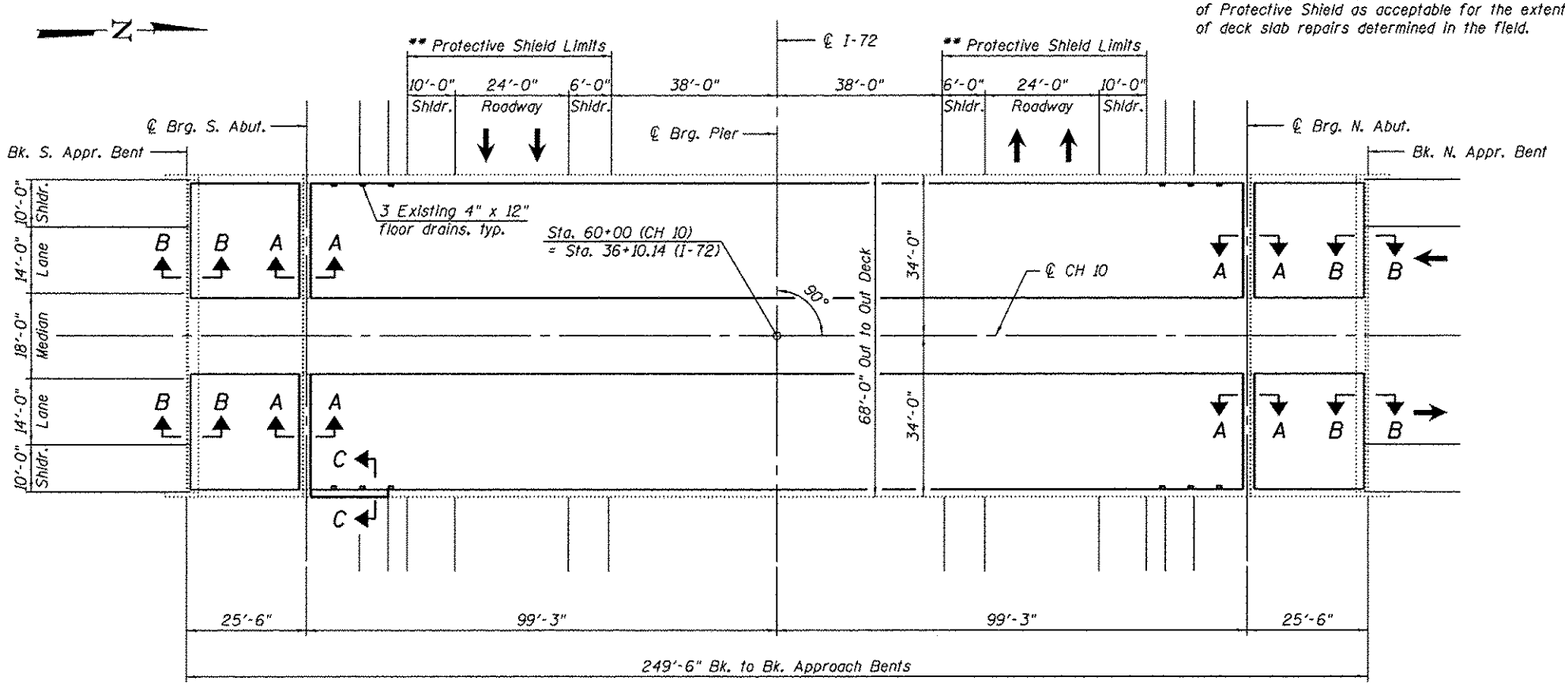
Existing Structure: The existing structure was constructed in 1974 as FA 408, Section 84-9-2HB. In 1998, the existing wearing surface and expansion joints were replaced. The structure is a two span continuous bridge with a reinforced concrete deck supported on nine 48 inch steel plate girders with vaulted abutments and a multicolumn pier. The existing structure is at right angles to the crossed feature. The structure measures 249'-6" back to back of the approach bents and 68'-0" out to out of bridge deck. One lane of traffic shall be maintained during the rehabilitation using traffic signals.

Slopewall repair shall be sequenced to occur simultaneously with adjacent lane closures used for the I-72 resurfacing.

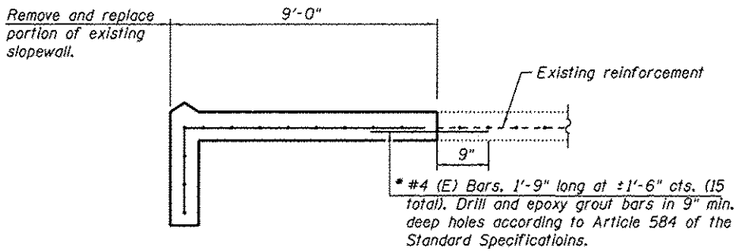


ELEVATION



** Resident Engineer may reduce the required limits of Protective Shield as acceptable for the extent of deck slab repairs determined in the field.

PLAN



SECTION C-C

SCOPE OF WORK

1. Remove and replace the existing HMA overlay and waterproofing membrane.
2. Repair bridge deck.
3. Remove and replace existing expansion joints at both abutments.
4. Repair slopewall.

* This work and the cost of the reinforcement bars will not be measured or paid for separately but shall be considered as included in the unit price bid for Slope Wall, 4".

INDEX OF SHEETS

GENERAL NOTES

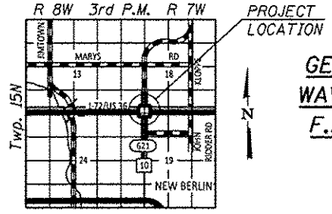
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations 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.
2. Removal of existing backer rod and silicone joint sealer will not be measured for payment but shall be included in the cost of Silicone Joint Sealer, of the size specified.
3. Resident Engineer shall determine deck slab repair areas after removal of existing HMA overlay. Repair areas shall be documented in the as-built plans.
4. The indicated portion of the existing slope wall shall be removed and replaced in-kind. See existing plans for details. Backfilling, compaction, and dressing of the existing earth bedding may be required and shall be completed to the satisfaction of the Engineer. Backfilling, compaction, and dressing of the existing earth bedding will not be measured for payment but shall be included in the cost of Slope Wall, of the thickness specified.
5. Slopewalls shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
6. Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	165
Waterproofing Membrane System (Special)	Sq. Yd.	1309.5
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	1309.5
Deck Slab Repair (Partial)	Sq. Yd.	131
Silicone Joint Sealer, 2"	Foot	135.5
Slope Wall Removal	Sq. Yd.	22
Slope Wall, 4"	Sq. Yd.	22
Protective Shield	Sq. Yd.	587

LICENSED STRUCTURAL ENGINEER
CHAD E. HODEL
081-5938
STATE OF ILLINOIS

Expires: 11/30/2016
10/14/14



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
WAVERLY ROAD (CH10) OVER I-72
F.A.I. 72 SEC. (84-9-2&3)RS-2
SANGAMON COUNTY
STATION 36+10.14
STRUCTURE NO. 084-0142

design firm no. 184001936 whks engineers + planners + land surveyors

USER NAME =	DESIGNED - CEH	REVISED
FILE NAME =	CHECKED - CWC	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - CEH/CWC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 084-0142
SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	SANGAMON	163	118
		CONTRACT NO. 72B54		
	ILLINOIS FED. AID PROJECT			

* (84-9-2&3)RS-2&MISC STRUC REP