

GENERAL PLAN & ELEVATION

S.N. 092-0001 & 092-0002

THE EXISTING STRUCTURES WERE BUILT IN 1959 BY THE STATE OF ILLINOIS AS F.A.I. ROUTE 5, SECTION 92-9B AT STATION 1286+17.00 IN VERMILION COUNTY. THE STRUCTURES CARRY I-74 OVER STONY CREEK NORTHEAST OF FITHIAN.

THE STRUCTURES WERE IMPROVED IN 1977 WITH F.A.I. ROUTE 74 SECTION DISTRICT 5 BRIDGE DECK WATERPROOFING 1977-2. IMPROVEMENTS WITH THAT SECTION INCLUDED DECK PATCHING, EXPANSION DEVICE RECONSTRUCTION, DRAIN REPAIRS AND INSTALLATION OF A WATERPROOFING MEMBRANE SYSTEM AND H.M.A. OVERLAY. THE STRUCTURE WAS AGAIN IMPROVED IN 1988 WITH F.A.I. 74 SECTION (92-9B). IMPROVEMENTS WITH THAT SECTION INCLUDED FULL AND PARTIAL DEPTH DECK PATCHING, PARAPET RECONFIGURATION, JOINT REPAIR AND REPLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM AND H.M.A. WEARING SURFACE. THE WEARING SURFACE WAS MODIFIED IN 2001 WITH FAI-74 SECTION (10-8,92-8,9)RS-1 & (92-10)RS-2. WITH THAT SECTION, THE WEARING SURFACE RECEIVED 1" OF MILLING FOLLOWED BY AN ADDITIONAL 1 3/4" OF H.M.A. OVERLAY.

THE SUPERSTRUCTURE CONSISTS OF A 7" R.C. DECK WITH A WATERPROOFING MEMBRANE SYSTEM AND A NOMINAL 2 3/4" H.M.A. WEARING SURFACE SUPPORTED BY SEVEN 40" P.P.C. I-BEAMS. THE SUPERSTRUCTURE IS SUPPORTED BY TWO SOLID SHAFT HAMMERHEAD PIERS ON SPREAD FOOTINGS AND TWO PILE BENT SPILL-THRU ABUTMENTS. THE STRUCTURE MEASURES 154'-7 7/8" FROM BACK TO BACK OF ABUTMENTS. THE DECK HAS A CLEAR WIDTH OF 34'-0" FROM FACE TO FACE OF PARAPET AND AN OUT-TO-OUT WIDTH OF 37'-2".

METHOD OF CONSTRUCTION: STAGE CONSTRUCTION

SEE PROPOSED IMPROVEMENTS ON THIS SHEET.

PROPOSED WORK

1. REMOVE EXISTING WATERPROOFING MEMBRANE SYSTEM AND H.M.A. WEARING SURFACE ON DECK.
2. VARIABLE-DEPTH MILLING FROM 2" TO 2 3/4" OVER APPROACH PAVEMENTS AND APPROACH ROADWAY.
3. PERFORM FULL AND PARTIAL-DEPTH DECK PATCHING AS DETERMINED BY THE ENGINEER.
4. PLACE PROPOSED WATERPROOFING MEMBRANE SYSTEM AND 1 1/2" H.M.A. WEARING SURFACE OVER DECKS AND 2" H.M.A. OVERLAY OVER APPROACH PAVEMENTS AND APPROACH ROADWAY.
5. REMOVE EXISTING PREFORMED JOINT SEALER AT EXPANSION JOINTS AND REPLACE WITH SILICONE JOINT SEALER.

TOTAL BILL OF MATERIALS

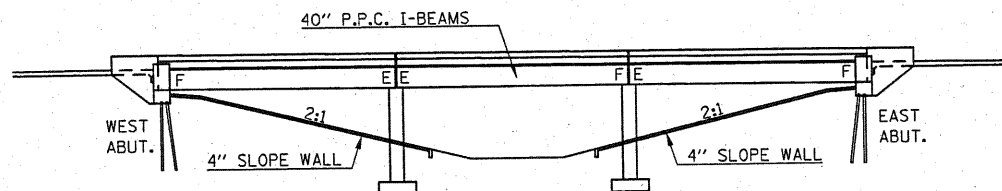
ITEM	UNIT	TOTAL
H.M.A. SURFACE REMOVAL (DECK)	SQ YD	1167.0
H.M.A. SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	542.0
POLYMERIZED BITUMINOUS MAT'L (PRIME COAT)	GAL	55.0
WATERPROOFING MEMBRANE SYSTEM	SQ YD	1185.0
POLYMERIZED H.M.A. SURFACE CSE. MIX D, N-105	TON	138.0
HOT-MIX ASPHALT SHOULDERS, 2"	SQ YD	192.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	173.0
DECK SLAB REPAIR (FULL-DEPTH, TYPE I)	SQ YD	15.0
DECK SLAB REPAIR (FULL-DEPTH, TYPE II)	SQ YD	30.0
SILICONE JOINT SEALER, 1.5"	FOOT	149.0

GENERAL NOTES

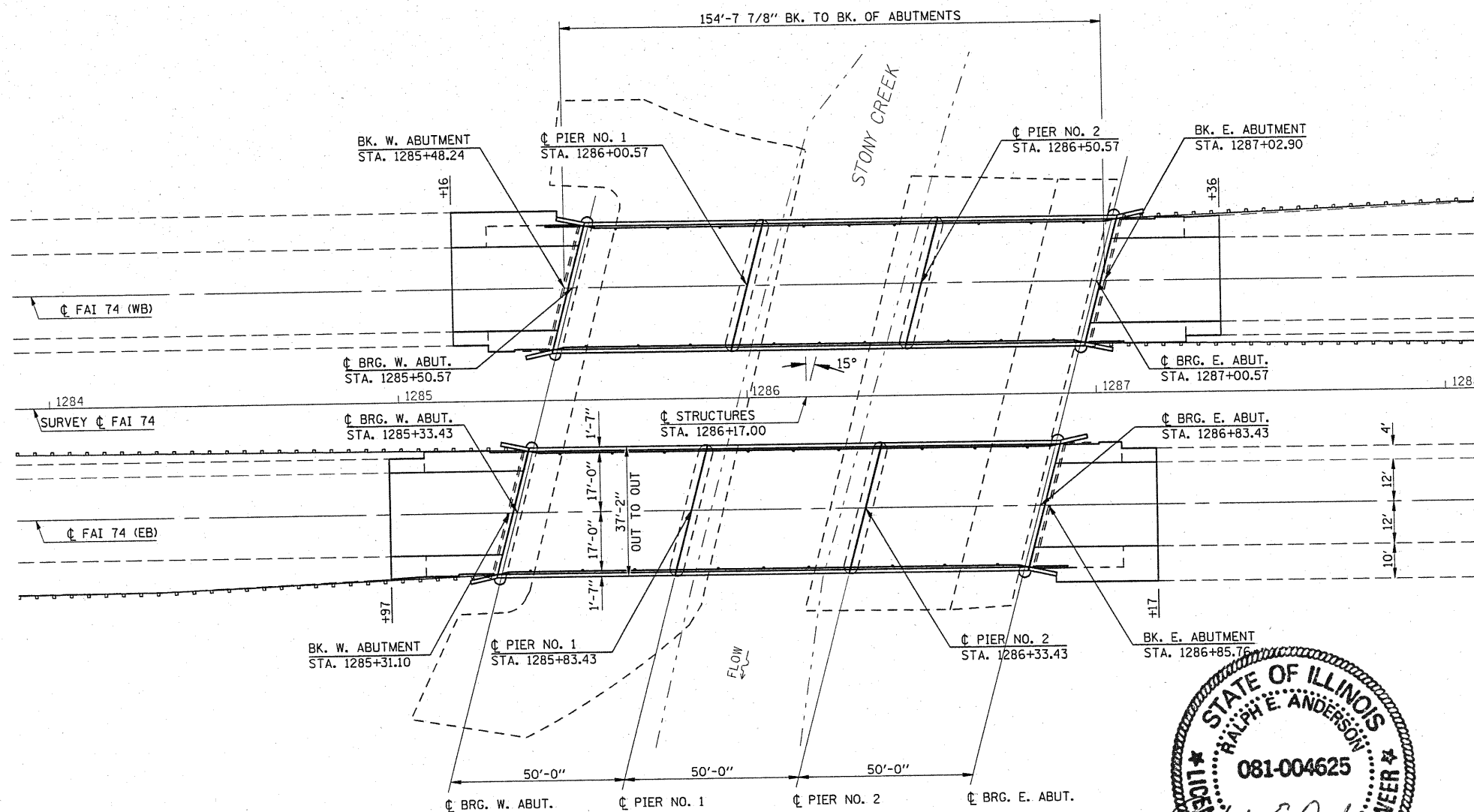
PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR AND H.M.A. SURFACE REMOVAL (DECK).

THE EXISTING STRUCTURES HAVE BEEN FOUND TO CONTAIN NO ASBESTOS.



ELEVATION



PLAN



Expires 11/30/2012

FILE NAME =	USER NAME = smsgm	DESIGNED - GMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION S.N. 092-0001 (EB) & 092-0002 (WB)	F.A.I. RTE. 74	SECTION (92-9B)I-1	COUNTY VERMILION	TOTAL SHEETS 15	SHEET NO. 4
ct:\pwork\pwidot\smsgm\d2187665\d5989	3 Bridge Repairs.dgn	DRAWN - GMS	REVISED -	SCALE:	SHEET NO. - OF - SHEETS	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 90963		
PLOT SCALE = 48,0001' / IN.	CHECKED -	DATE -	REVISED -	STA. TO STA.						
PLOT DATE = 10/18/2010	DATE -	REVISED -	REVISED -							