

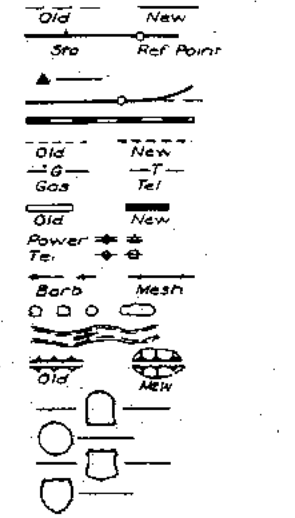
IOWA DEPARTMENT OF TRANSPORTATION

HIGHWAY DIVISION

INDEX OF SHEETS
SHEET NO. 1 TITLE, LOCATION MAP, EST. OF QUANT., CROSS SECTION, INDEX OF SHEETS
SHEET NO. 2 GENERAL PLAN
SHEET NO. 3 WING DIKES ROAD STD. RL-3

CONVENTIONAL SIGNS

- State Line
- Co. Line
- Twp. Line
- Sec. Line
- Corp. Line
- Urban Bdy.
- R.O.W. Lines
- Survey Line
- Sec. Corner
- Profile Grade
- Railroad
- Field Tile
- Underground Lines
- Culverts
- Utility Poles
- Fences
- Trees Or Brush
- Stream
- Dike
- County Road No.
- Primary Road No.
- U. S. Road No.
- Interstate Road No.



PLANS OF PROPOSED IMPROVEMENT
ON THE
FARM TO MARKET SYSTEM
CRAWFORD COUNTY
PROJECT NO. RS-1098(3)--61-24 BRIDGE

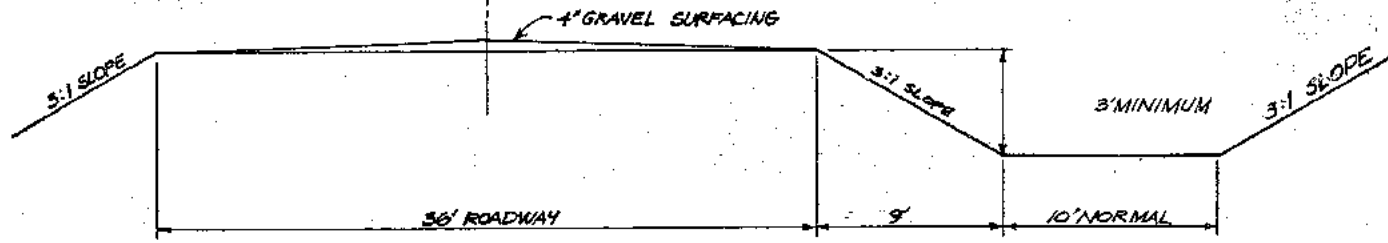
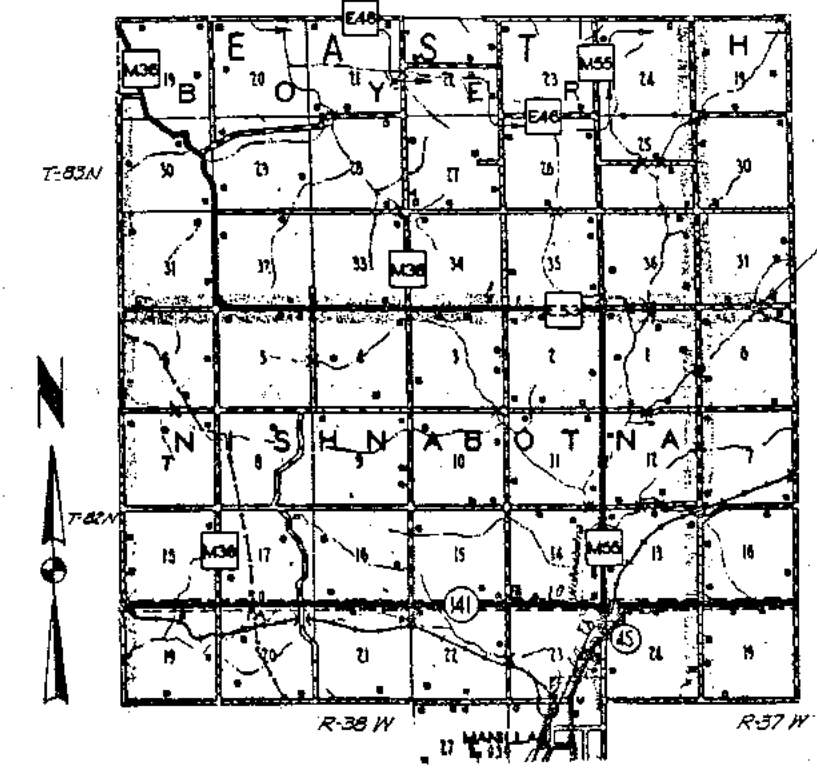
SCALES: AS NOTED

THE IOWA STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR CONSTRUCTION WORK, SERIES OF 1972. PLUS CURRENT SPECIAL PROVISIONS & SUPPLEMENTAL SPECIFICATIONS OF THE IOWA DEPARTMENT OF TRANSPORTATION -- HIGHWAY DIVISION

Detail Plans
reduced in size
(Do Not Scale)

REQUIRED I.S.H.C. STANDARDS

STANDARD	DATE ISSUED	LATEST REV.
J16-5-70	JUNE 1969	6-8-72
J16-6-70	JUNE 1969	6-8-72
J16-7-70	JUNE 1969	6-8-72
J16-9-70	JUNE 1969	7-28-72
J16-15-70	JUNE 1969	3-6-74
P10A	JUNE 1959	6-12-72
J16-70	JUNE 1969	6-8-72



TYPICAL APPROACH SECTION
NO SCALE

DESIGN NO. 575

IN LETTING OF JULY 22, 1975

TOTAL ESTIMATED QUANTITIES					
125'-0" X 30'-0" CONT. CONC. SLAB BRIDGE					
ITEM	UNIT	AMOUNT	PIERS	TOTAL	
1 BACKFILL, GRANULAR	C.Y.	30		30	
2 CONC., STRUCTURAL	C.Y.	283.7	52.4	34.1	
3 EXCAVATION, CLASS 10, CHANNEL	C.Y.			1360	
4 EXCAVATION, CLASS 20	C.Y.		32	32	
5 HANDRAIL, ALUMINUM	L.F.	245.7		245.7	
6 PILING, CREOSOTED	L.F.		16,840	640	
PILING, FURNISH P10A TYPE 1 TO					
OR TYPE 2 PILING					
7 PILING, P10A TYPE 4, 16"	L.F.		18 @ 55'	990	
8 REMOVAL OF EXIST. STRUCTURE	L.S.			WMP 20	
9 STEEL REINFORCING	LBS.	63,909	4614	68523	
10 SUBDRAIN	L.F.		111	111	

NOTES: (2) THE FLOOR, CURBS & WING REST 283.7 C.Y. ARE TO BE CLASS "D" CONCRETE, THE REMAINDER 32.4 C.Y. IS TO BE CLASS "C" CONCRETE.
(3) THE CONSTRUCTION OF THE WING DIKES (68.4 C.Y.) IS TO BE INCLUDED IN AND CONSIDERED INCIDENTAL TO CLASS 10 CHANNEL EXCAVATION.
(10) THE BRIDGE CONTRACTOR IS TO INSTALL SUBDRAINS BEHIND EACH ABUTMENT AS DETAILED. THE SUBDRAIN MAY BE EITHER DRAIN TILE OR REINFORCED PLASTIC PIPE WITH A MINIMUM NOMINAL DIAMETER OF 4" & A MAX. NOMINAL DIAMETER OF 6". THE PRICE BID FOR SUBDRAIN IS TO INCLUDE EXCAVATION NECESSARY FOR INSTALLATION.

MILEAGE SUMMARY
BRIDGE AT STA. 15+80 = 128 FT = .0242 MILE
TRAFFIC COUNT: 68 VPD (1971)

APPROVED
U. S. Kansas

LeRoy A. Kanosh

Eileen J. Jiden

Charles J. Smith

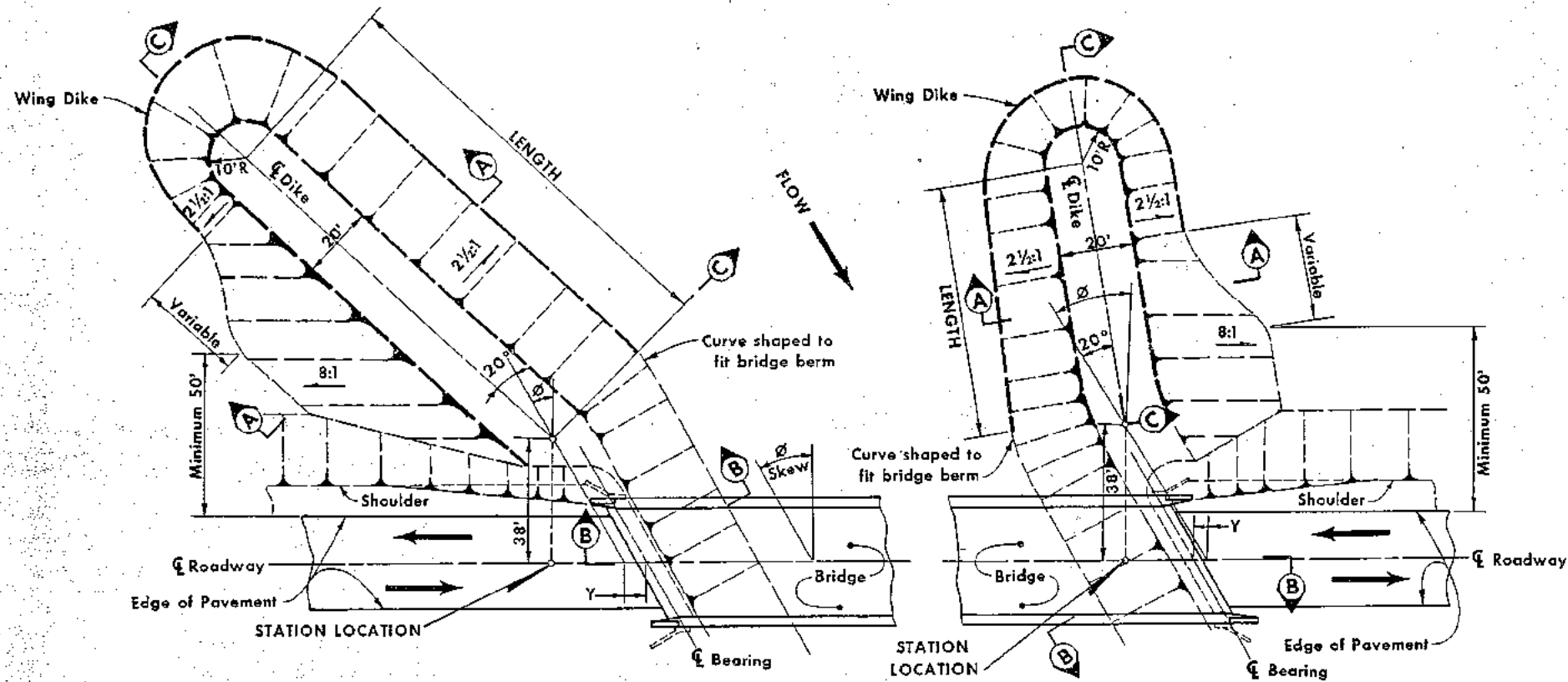
Don H. Jansen
BOARD OF SUPERVISORS

APPROVED
H. Dale Wright
COUNTY ENGINEER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME OR BY OTHER DULY REGISTERED PROFESSIONAL ENGINEERS UNDER THE LAWS OF THE STATE OF IOWA.
Stephen A. Sundquist
5707 5-9-75
IOWA REGISTRATION NUMBER DATE

APPROVED
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION
DEPT. OF TRANSPORTATION

APPROVED
6/25/75
DEPUTY CHIEF ENGINEER
IOWA DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

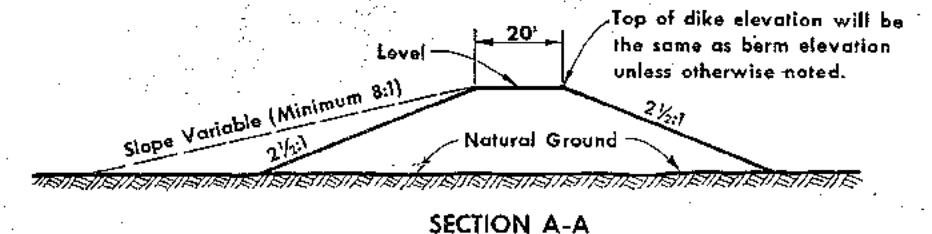


GENERAL NOTES:
 Dikes shall be constructed as indicated hereon except when otherwise shown on detail plans. Method of construction shall be as specified for "Embankments" in current Iowa State Highway Commission Standard Specifications.

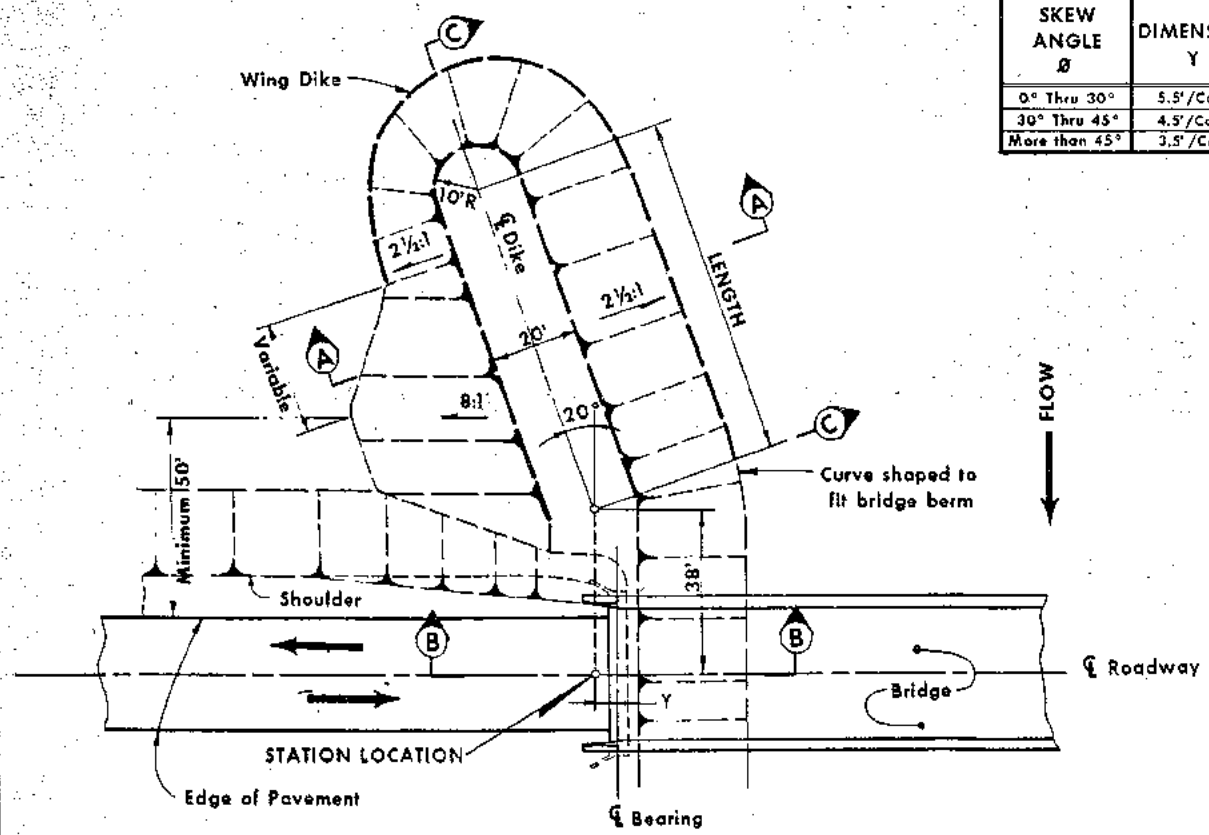
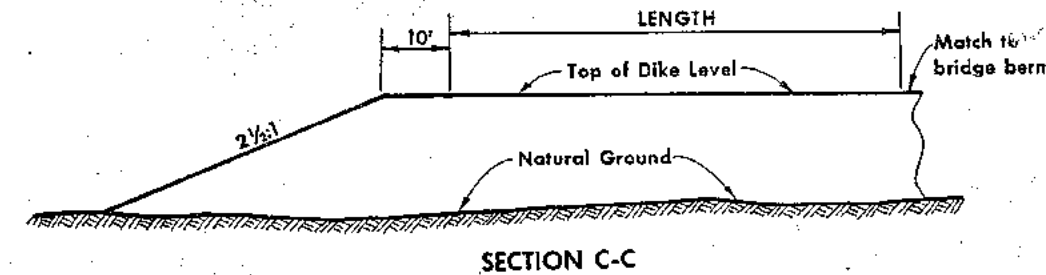
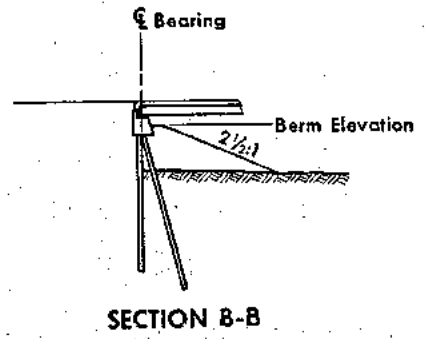
For skewed bridges, one wing dike makes an angle with roadway ϕ of (Skew + 20°) and the other dike (Skew - 20°). See details this sheet. Method of location shall be similar when direction of "Flow" or "Skew" is opposite that indicated.

At locations where a portion of wing dike would be within 50 feet of the edge of traffic lane for approaching traffic, that portion of dike shall be constructed with a slope of 8:1 parallel to traffic. The stream side slope of wing dike shall be 2 1/2:1 as shown.

Earthwork for construction of dikes is included in estimate of quantities for excavation. Cost of finishing dike or other work involved in completing dike as directed shall be considered incidental to excavation.



SKEW ANGLE θ	DIMENSION Y
0° Thru 30°	5.5' / Cos θ
30° Thru 45°	4.5' / Cos θ
More than 45°	3.5' / Cos θ



LOCATION STATION	TOP ELEVATION	LENGTH (Feet)	BRIDGE SKEW θ	EARTHWORK VOLUME (Cubic Yards)

Redrawn Sheet	NO.	4	DATE	9-13-74
			Highway Division	
	STANDARD ROAD PLAN		RL-3	
	RECOMMENDED	<i>John A. Hoeker</i> ASS. ROAD DESIGN ENGINEER		9-11-73
APPROVED	<i>W. P. McLaughlin</i> ROAD DESIGN ENGINEER		9-11-74	
APPROVED	<i>W. P. McLaughlin</i> DEPUTY CHIEF ENGINEER		9-12-74	
DETAILS FOR STANDARD WING DIKES				