FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

31/39

ADAMS COUNTY
ADA-125-6.38
1.7 miles west of West Union

P.I. 348+34.93
Hub & Tack
Hub & Tack
P.K. Nail
P.K. Nail

C.S. Sta. = 353+45.41
Prop. ℄
P.K. Nail in 24.35
Hub & Tack

Ex. 5.2'×20.14' Conc. Box
H. 850.61
Ex. S.R. 125
H. 851.38
Ex. 24"×30.75' Conc. Box
H. 851.54
EAST FORK OF EAGLE CREEK
Fill to Elev. 852.0± and slope to drain.
I-100' Dumped rock channel protection (Salvage if available)
Ex. S.R. 125
Trap ℄ Sta. 10+00 = ℄ Sta. 350+80.15
460.30
End Appr. Slab Sta. 350+80.15
Begin Appr. Slab Sta. 351+59.89
+52.99
+74.30
+85.97
30° Skew
30° R.F. SKEW
Transition Slopes at three corners of bridge
P.I. Sta. 10+89 on ℄
Prop. 10' Channel
Proposed ℄ Relocated East Fork Eagle Creek
C.S. - STA. 353+45.41
PROPL CURVE
P.I. = 348+34.93
Δ = 41°-36'
D = 5°
Ts = 876.19'
Ls = 300'
Es = 135.25'
Xc = 299.82'
Yc = 7.85'
Lc = 1086.67'
Θs = 4°-30'
R = 1909.86'
Proposed ℄
Clears 3-5 Yr. H.W. by 3.1'±
Bridge Limits
BM. Top N.E. Wingwall of Bridge Nº ADA-125-0664 12 Ft. N. of ℄ Standard Disk "Z-79-1935" U.S. Coast & Geodetic Survey. B.M. Elevation 859.48
Sta. 350+80.15
Sta. 351+59.89
Bench Elev. 855.4
Bench Elev. 855.1
-0.40%
Highest Known High Water Elev. 856.90
3-5 Yr. High Water Elev. 854.1
Normal Water Elev. 849.7±
Elev. 847.50
2:1 (Normal)
2:1 (Normal)
Elev. 847.50
Elev. 845.50
Excavate channel thru structure to Elev. 848.0±
Rock at Flowline

EXISTING BRIDGE DATA

Bridge No.	ADA-125-0664
Type	Conc. Girder
Span	40' (2 Span)
Roadway	19'-4"
Condition	Fair
Reduction	None
Abut.	Conc.
Wearing Surf.	8" Stone & Tar
Loading	S-11.6
Skew	10° R.F.
Suff. Rating	72

DRAINAGE AREA = 3.75 Sq. Mi.

PROPOSED STRUCTURE

TYPE: Continuous reinforced concrete slab with reinforced concrete substructure.
SPANS: 34'-30'-34' ℄ Brgs.
ROADWAY: 32'-0" ⅝ guard rail
LOAD FREQUENCY: CF-430 (57)'
SKEW: 30° R.F.
WEARING SURFACE: 1" monolithic concrete
APPROACH SLAB: AS-1.54 (25' long)
ALIGNMENT: 3°00' curve, right
SUPERELEVTION: 0.07" ft

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. ADA-125-0664
SR-125 OVER EAST FORK EAGLE CREEK (RELOCATED)
ADAMS CO. SR-125
STA. 350+80.15
351+59.89

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	WJ	WJ	D.H.S.	P.E.S.

BFG 3-26-64

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	*	

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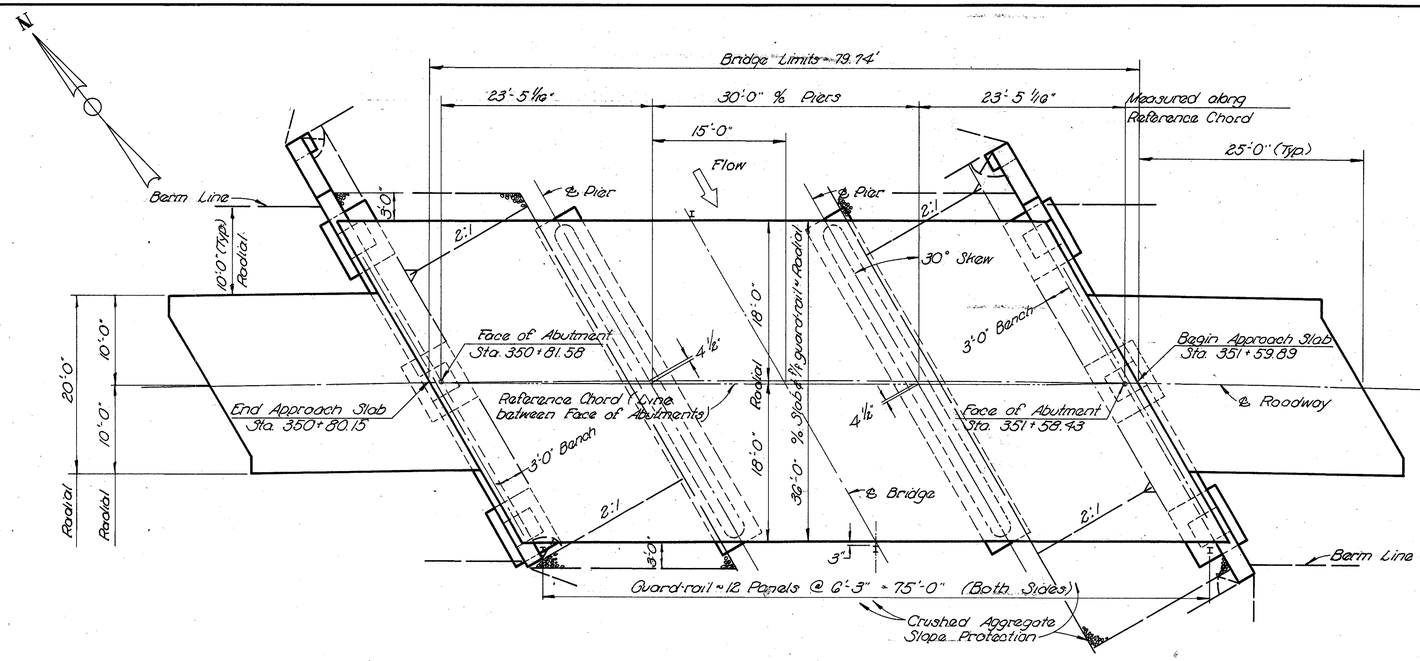
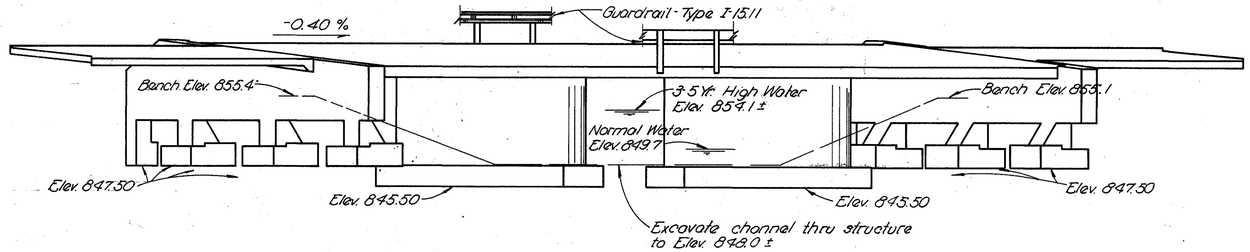
ADA-125-6.38



GENERAL PLAN



ELEVATION

GENERAL NOTES

REFERENCE shall be made to Standard Drawing C.S-1-54 revised 4-1-63, and to Supplemental Specification 3-101 dated 7-12-62.

DESIGN SPECIFICATIONS : This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 3-1-57, together with current revisions thereof.

DESIGN LOADING - CF 130 (57).

Concrete Class C - basic unit stress 1,333 p.s.i.
Concrete Class E - basic unit stress 1,133 p.s.i.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p.s.i.

REMOVAL OF EXISTING STRUCTURE : When no longer needed to maintain traffic the existing structure shall be removed. Suitable waste masonry shall be placed as Bank Protection as directed by the Engineer.

EXCAVATION QUANTITY includes the removal of fill material between the top of the earth bench and the bottom of the abutment cross-beam.

FOOTINGS shall extend a minimum of 3' into undisturbed rock or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE : Pier footings are designed for a maximum bearing pressure of 3 tons per sq. ft. and abutment footings for a maximum bearing pressure of 5 tons per sq. ft.

SLAB THICKNESS is 13½" which includes 1" for monolithic wearing surface.

REINFORCING STEEL CLEARANCE from the roadway surface to the top steel shall be 2". This includes the 1" monolithic wearing surface.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abut's	Piers	Gen'l		
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump		
E-2	130	Cu. Yds.	Unclassified excavation		130				
E-2	36	Cu. Yds.	Rock excavation		5	31			
E-3	1,425	Cu. Yds.	Channel excavation				1,425		
S-1	123	Cu. Yds.	Class "C" concrete, superstructure	123					
S-1	61	Cu. Yds.	Class "E" concrete, abutment above footings		61				
S-1	64	Cu. Yds.	Class "E" concrete, pier walls			64			
S-1	52	Cu. Yds.	Class "E" concrete, footings		24	28			
S-4	38882	Lbs.	Reinforcing steel	30,050	5283	3549			
S-9	9	Sq. Ft.	½" Preformed expansion joint filler		9				
S-14	159.98	Lin. Ft.	Railing (Type T-15.11 with galvanized steel posts & bolts)	159.98					
S-24	Lump	Sum	Removal of existing structure				Lump		
S-29	51	Cu. Yds.	Pocous backfill		51				
S-101	123	Each	Water-reducing, set-retarding admixture	123					
I-10	219	Sq. Yds.	Crushed aggregate slope protection				219		
I-10	195	Cu. Yds.	Dumped rock channel protection				195		

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION, NOTES AND ESTIMATED QUANTITIES

BRIDGE NO. ADA-125-0664
Over EAST FORK OF EAGLE CREEK

ADAMS COUNTY — STA. 350 + 80.15 / STA. 351 + 59.89

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JEF	JEF	jtk	J.D.R.	BFG	3-26-64	

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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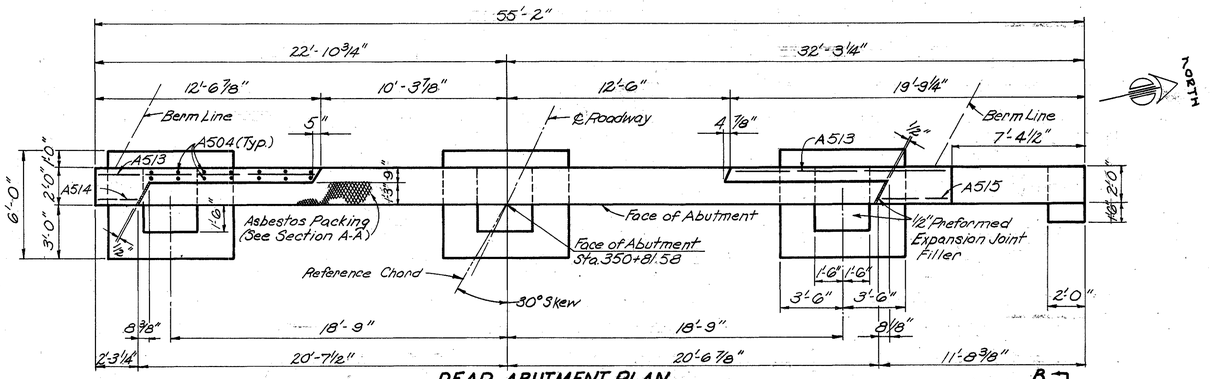
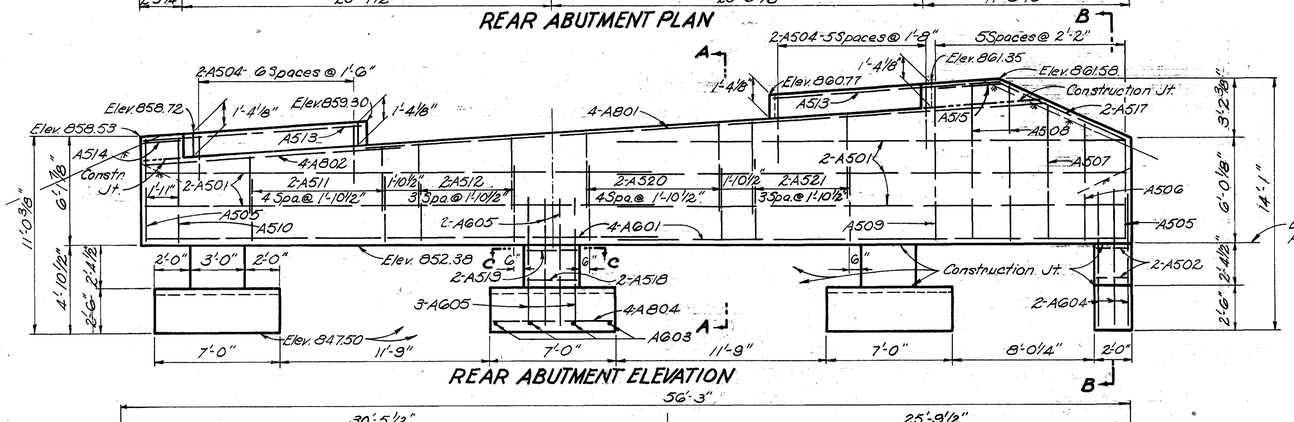
ADA-125-6.38



REAR ABUTMENT PLAN

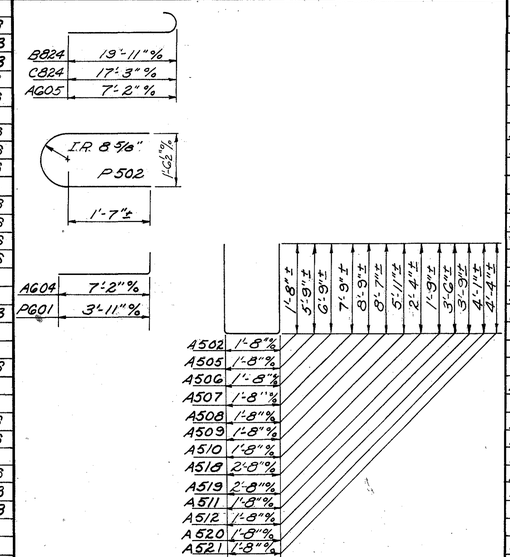


REAR ABUTMENT ELEVATION

REINFORCING STEEL LIST

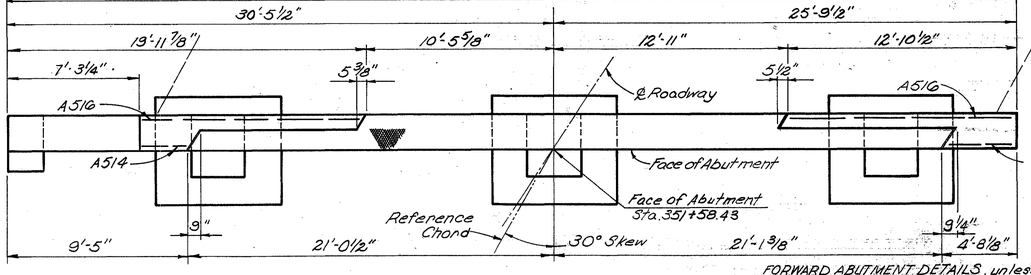
Mark	No.	Length	Weight	Shp
Superstructure				
A824	99	28'-1"	7423	S
B824	32	21'-10"	1865	B
C824	32	18'-4"	1566	B
D824	16	19'-6"	833	S
E824	16	15'-10"	676	S
F924	64	25'-5"	5531	S
G924	32	14'-8"	1596	S
H924	32	12'-4"	1342	S
JG01	32	15'-3"	733	S
KG01	16	9'-8"	232	S
MG01	80	41'-0"	4927	S
NG01	54	41'-0"	3,326	S
Piers				
PG01	160	4'-7"	1101	B
	4	9'-7"		
PG02	Series	to	836	S
	of 13	11'-10"		
PG03	6	9'-4"	84	S
PG04	6	11'-10"	107	S
P501	52	20'-1"	1089	S
P502	26	5'-7"	151	B
P503	8	21'-9"	181	B
Abutments				
AB01	8	38'-0"	812	S
AB02	4	14'-0"	150	S
AB03	4	15'-8"	167	S
AB04	24	6'-8"	427	S

Bending Diagrams



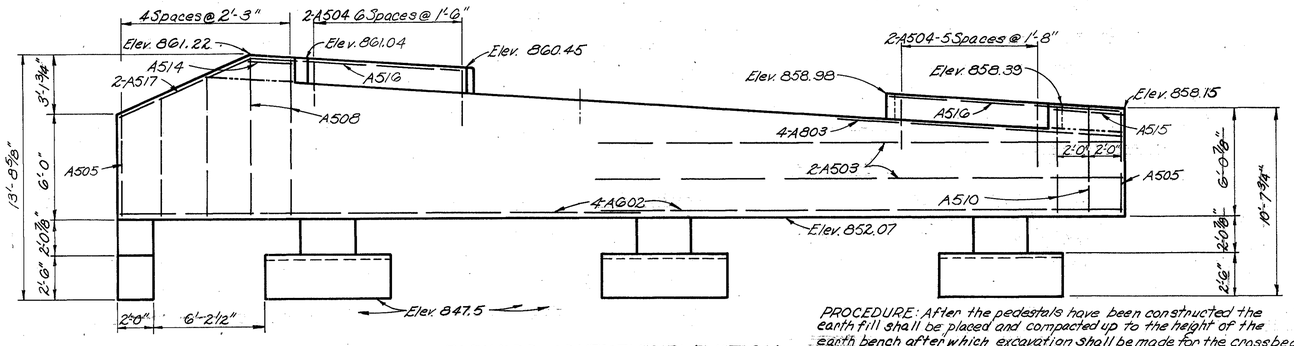
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, indicates the bar size number. For example, A824 is a No. 8 size bar.

Mark	No.	Length	Weight	Shp
Abutments (continued)				
AG01	8	28'-5"	342	S
AG02	8	28'-11"	348	S
AG03	24	5'-9"	204	S
AG04	12	7'-10"	141	B
AG05	60	7'-10"	706	B
A501	16	28'-3"	471	S
A502	8	4'-9"	40	B
A503	4	29'-3"	122	S
A504	52	2'-7"	140	S
A505	4	12'-11"	54	B
A506	2	14'-11"	31	B
A507	2	16'-11"	35	B
A508	4	18'-11"	79	B
A509	1	18'-7"	19	B
A510	3	13'-3"	41	B
A511	20	8'-5"	176	B
A512	16	8'-11"	149	B
A513	2	12'-3"	26	S
A514	2	1'-11"	4	S
A515	2	4'-2"	9	S
A516	2	12'-6"	26	S
A517	4	7'-11"	33	S
A518	12	7'-1"	89	B
A519	12	5'-11"	74	B
A520	20	9'-7"	200	B
A521	16	10'-1"	168	B
Replacement Bars				
RE901	1	6'-10"	—	S
RE801	1	6'-6"	—	S
REG01	1	5'-11"	—	S
RE501	1	5'-7"	—	S



FORWARD ABUTMENT PLAN

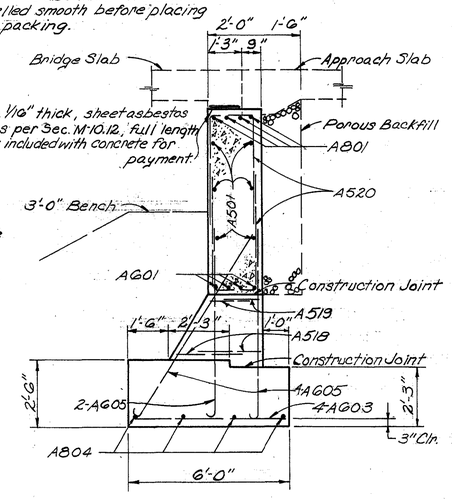
FORWARD ABUTMENT DETAILS, unless shown otherwise, are identical to REAR ABUTMENT DETAILS except being opposite hand.



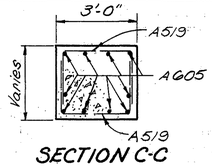
FORWARD ABUTMENT ELEVATION

PROCEDURE: After the pedestals have been constructed the earth fill shall be placed and compacted up to the height of the earth bench after which excavation shall be made for the crossbeam.

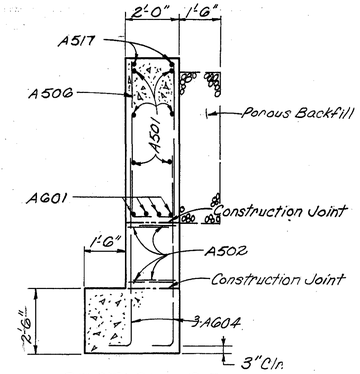
NOTE: The top of the abutment crossbeam shall be trowelled smooth before placing the asbestos packing.



SECTION A-A



SECTION C-C



SECTION B-B

POROUS BACKFILL shall extend upward to the bottom of the approach slab, berms or earth shoulders and outward to the embankment slopes. Excavation therefor in excess of that required for construction of the abutment, shall be considered as paid for in the unit price paid for porous backfill.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used on any or all parts of the abutments.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

ABUTMENT DETAILS AND REINFORCING STEEL LIST

BRIDGE No. ADA-125-0664
OVER EAST FORK OF EAGLE CREEK
ADAMS COUNTY
STA. 350+80.15
STA. 351+59.89

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F		J.D.R.	BFG	3-26-64	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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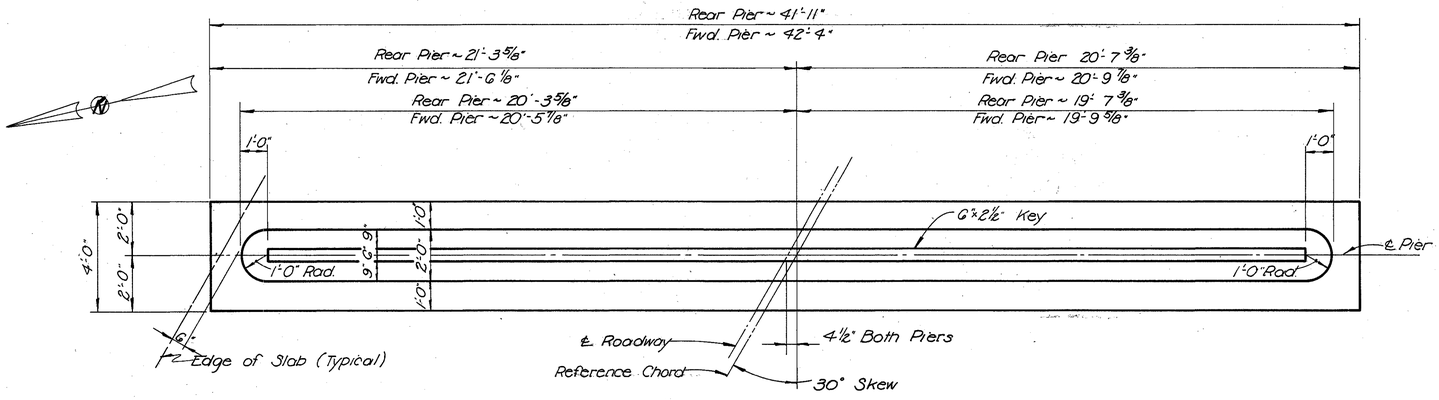
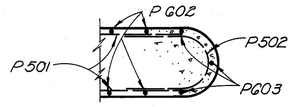
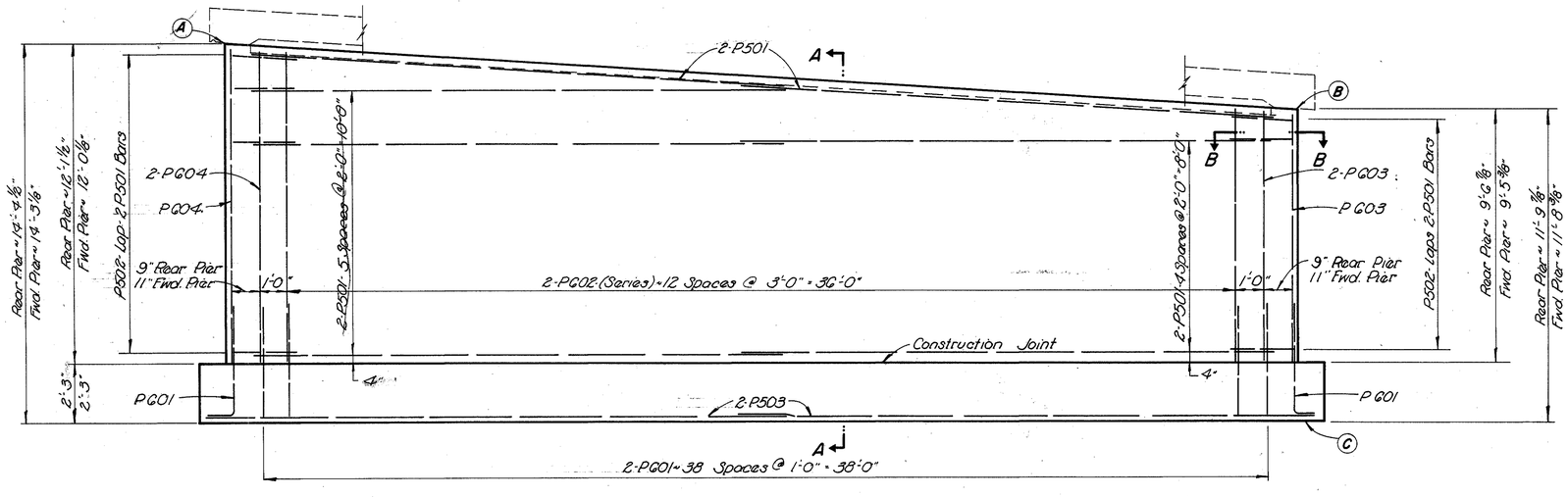
ADA-125-G.38



PIER PLAN



SECTION B-B

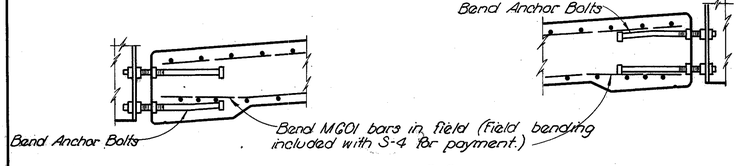


PIER ELEVATION

SECTION A-A

ELEVATIONS		
Pt.	Rear Pier	Fwd Pier
A	859.88	859.76
B	857.32	857.20
C	845.50	845.50

CONCRETE shall be Class "E"



DETAIL "A"
Edge Beam and Railing Anchor Bolts

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

PIER DETAILS

BRIDGE NO. ADA-125-0664
Over EAST FORK OF EAGLE CREEK

ADAMS COUNTY
STA. 350 + 80.15
STA. 351 + 59.89

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F	jtk	J.D.R.	BFG	3-26-64	