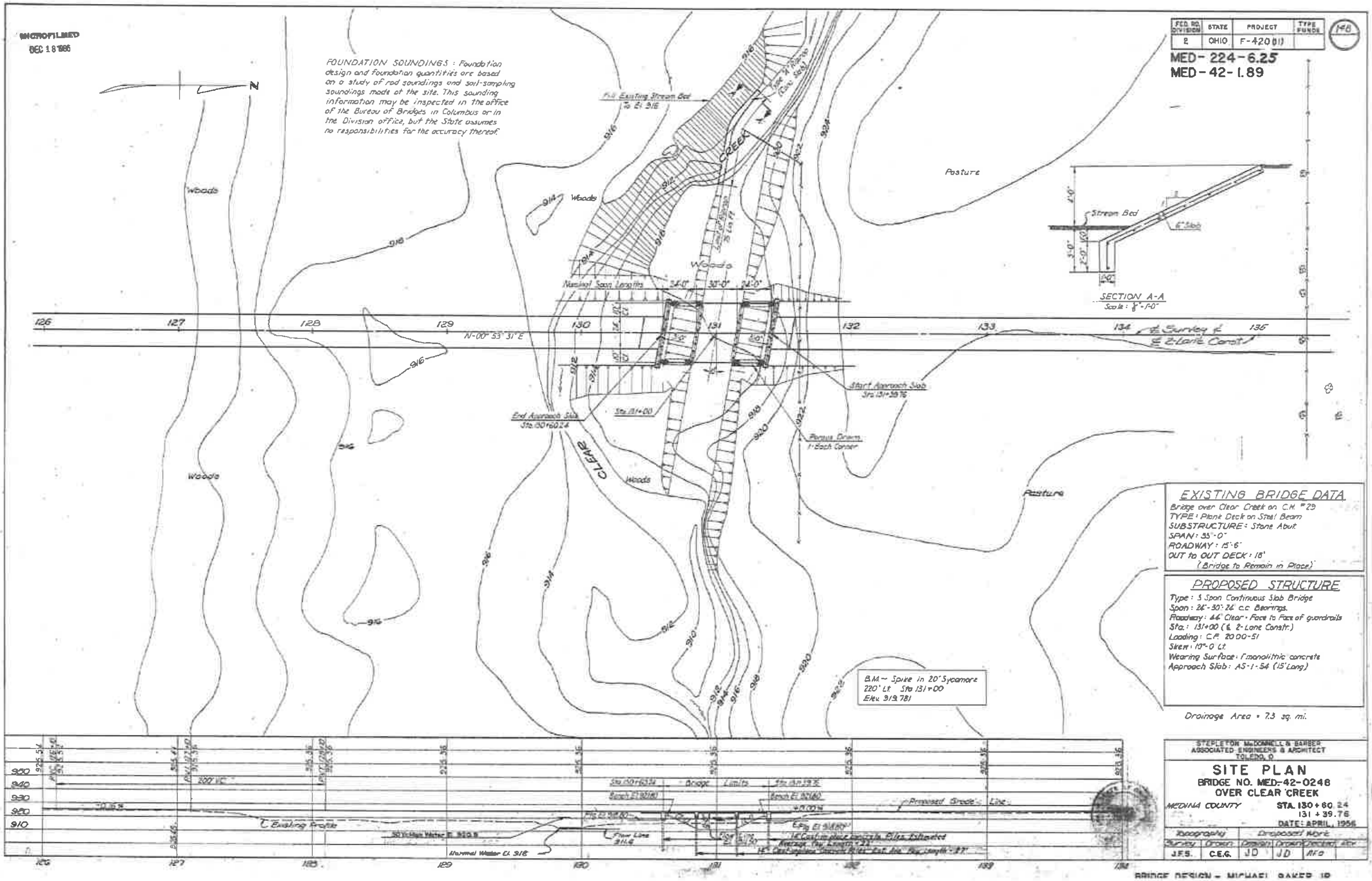
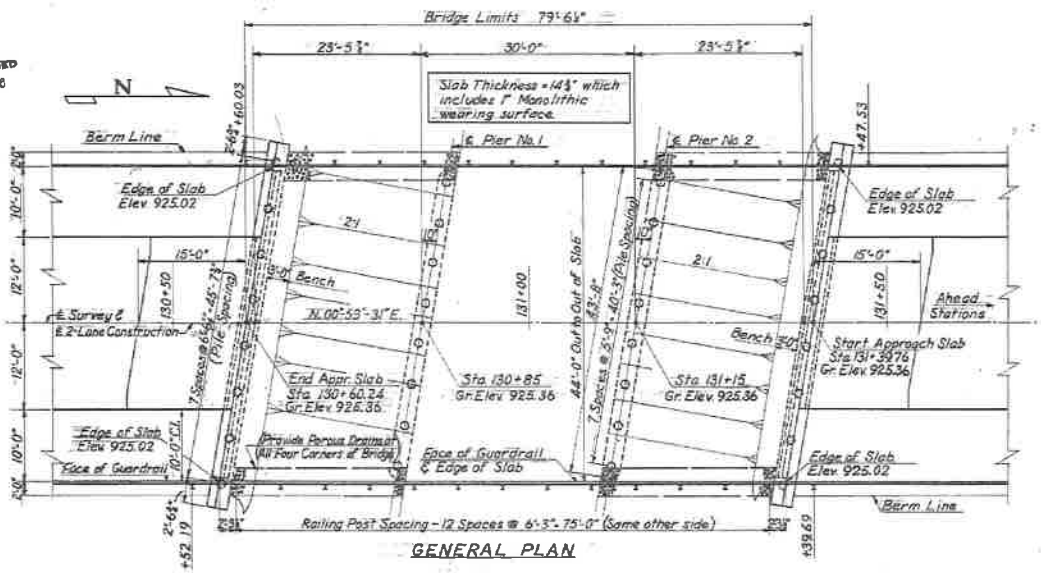

MICROFILMED
DEC 18 1986
FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS
2 | OHIO | F-420(1)
148
MED-224-6.25
MED-42-1.89
FOUNDATION SOUNDINGS : Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibilities for the accuracy thereof.
N
Woods
Pasture
Fill Existing Stream Bed To El. 916
CREEK
CLEAR
Nominal Span Lengths
24'-0"
30'-0"
N-00° 53' 31" E
End Approach Slab Sta. 130+60.24
Sta. 131+00
Start Approach Slab Sta. 131+39.76
Porous Drain 1-Each Corner
Stream Bed
6" Slab
SECTION A-A
℄ Survey & ℄ 2-Lane Const.
EXISTING BRIDGE DATA
Bridge over Clear Creek on C.H. #29
TYPE : Plank Deck on Steel Beam
SUBSTRUCTURE : Stone Abut.
SPAN : 35'-0"
ROADWAY : 15'-6"
OUT to OUT DECK : 18'
(Bridge to Remain in Place)
PROPOSED STRUCTURE
Type : 3 Span Continuous Slab Bridge
Span : 24'-30'-24' c.c. Bearings.
Roadway : 44' Clear - Face to Face of guardrails
Sta. : 131+00 (℄ 2-Lane Constr.)
Loading : C.F. 2000-51
Skew : 10°-0 Lt.
Wearing Surface : 1" monolithic concrete
Approach Slab : AS-1-54 (15' Long)
B.M. ~ Spike in 20" Sycamore 220' Lt. Sta. 131+00 Elev. 919.781
Drainage Area = 7.3 sq. mi.
200' V.C.
Bridge Limits
℄ Existing Profile
Proposed Grade Line
Flow Line 911.4
Normal Water El. 918
STEPLETON McDONNELL & BARBER ASSOCIATED ENGINEERS & ARCHITECT TOLEDO, O.
SITE PLAN
BRIDGE NO. MED-42-0248
OVER CLEAR CREEK
MEDINA COUNTY
STA. 130+60.24
131+39.76
DATE: APRIL, 1956
Topography | Proposed Work
Survey | Drawn | Design | Drawn | Checked | Rev.
J.F.S. | C.E.G. | JD | JD | AFO
BRIDGE DESIGN - MICHAEL BAKER JR.

Fed. Rd. Div. No.	STATE	PROJECT	TYPE FUNDS
2	OHIO	F-420(11)	

MED-42-1.89
MED-224-6.25

MICROFILMED DEC 18 1956



GENERAL NOTES

- Reference shall be made to the following Standard Drawings:

Slab	CS-1-54	Date 7-1-54	Revised 12-1-54
Abutments	A-1-54	Date 7-1-54	Revised 12-1-54
Piers	P-1-54	Date 7-1-54	Revised 12-1-54

- Design Specifications: This structure conforms to the requirements of "Design Specifications for Highway Structure" of the State of Ohio, Department of Highways dated 10-1-51, together with revisions thereof dated 7-15-52, 4-1-54 and 2-1-55.
- Piles shall be driven to a minimum bearing capacity of 24 tons for the abutments and 32 tons for the piers. The length of penetration of every pile shall be at least 80% of the estimated average length of penetration of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director.
- Galvanizing of all members which are specified to be galvanized shall be as called for in Sec. M-7.4 (d).
- Porous Drains, extending from face of abutment to Elevation 911.50, shall be provided at all four corners of the bridge. The drains shall be 4 ft wide and one foot thick.
- Gravel, if used as the coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.
- Pier Pile Encasement as shown on Std. Dwg. No. P-1-54 may be omitted, provided that the tapered portion, if any, of ALL Pier Piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted, the painting of the piles shall extend to low water Elevation or, if the proposed surface of the ground is above low water, it shall extend to at least one foot below the proposed surface of ground.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Piers	Abut.	Gen.
E-2	59	C.Y.	Unclassified Excavation			59	
E-3	1940	C.Y.	Channel Excavation				1940
S-1	178	C.Y.	Class "C" Concrete, Superstructure & Pier Caps	161	17		
S-1	51	C.Y.	Class "E" Concrete, Abutments			51	
S-4	45880	Lbs.	Reinforcing Steel	36970	3220	5690	
S-14	1384	Lin.Ft.	Railing (Type I-15.13 with Galvanized Steel Bolts & Posts)	139.04			
S-18	780	Lin.Ft.	14" Cast-in-place Rein. Conc. Piles		430	350	
S-29	14	C.Y.	Porous Drains on Embankment Slopes				14
S-29	20	C.Y.	Porous Backfill			20	
I-10	32	S.Y.	Type "A" Riprap Concrete Slab				32
S-16	Lump	Sum	First Test Pile				

REINFORCING STEEL LIST

Superstructure Mark	No.	Length	Weight	Type	Bending Diagram
E964	84	23'-4"	6660	S	
G964	42	10'-5"	1490	S	
H964	40	8'-2"	1110	S	
A864	132	28'-1"	9900	S	
B864	44	21'-0"	2470	B	
C864	42	18'-4"	2050	B	
D864	22	19'-6"	1150	S	
E864	21	15'-10"	890	S	
M701	134	23'-9"	6290	S	
J601	42	14'-1"	890	B	
K601	21	12'-0"	380	S	
N601	198	22'-9"	5690	S	

Abutments Mark	No.	Length	Weight	Type	Bending Diagram
R401	64	5'-5"	230	B	
R501	16	26'-0"	430	S	
R502	156	6'-7"	1070	B	
R503	8	22'-6"	190	S	
R504	24	5'-4"	130	S	
R505	34	7'-11"	280	B	
R506	8	12'-9"	110	S	
R507	16	5'-0"	80	S	
R508	28	6'-8"	195	B	
R509	28	8'-5"	245	B	
R801	16	26'-6"	1130	S	
R1001	16	23'-3"	1600	S	

Piers Mark	No.	Length	Weight	Type	Bending Diagram
P401	64	5'-5"	230	B	
P501	8	21'-6"	180	S	
P502	68	8'-0"	570	B	
P503	8	6'-4"	50	B	
P701	96	4'-0"	780	S	
P901	8	22'-0"	600	S	
P1001	8	23'-6"	810	S	

REPLACEMENT BAR SCHEDULE

Size	No	Length	Shape
4	1	5'-3"	S
5	1	5'-7"	S
6	1	5'-11"	S
7	1	6'-2"	S
8	1	6'-6"	S
9	1	6'-10"	S
10	1	7'-2"	S

MICHAEL BAKER, JR.
Consulting Engineer

GENERAL PLAN & ELEVATION

BRIDGE NO. MED-42-0248
OVER CLEAR CREEK
MEDINA COUNTY
STA. 130+60.24
131+39.76
DATE: APRIL, 1956

Designed	Drawn	Traced	Checked	Revised	Date	Revised
J.D.	J.D.	C.S.	A.F.O.			