

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	13
2	OHIO	HIF	1953	14

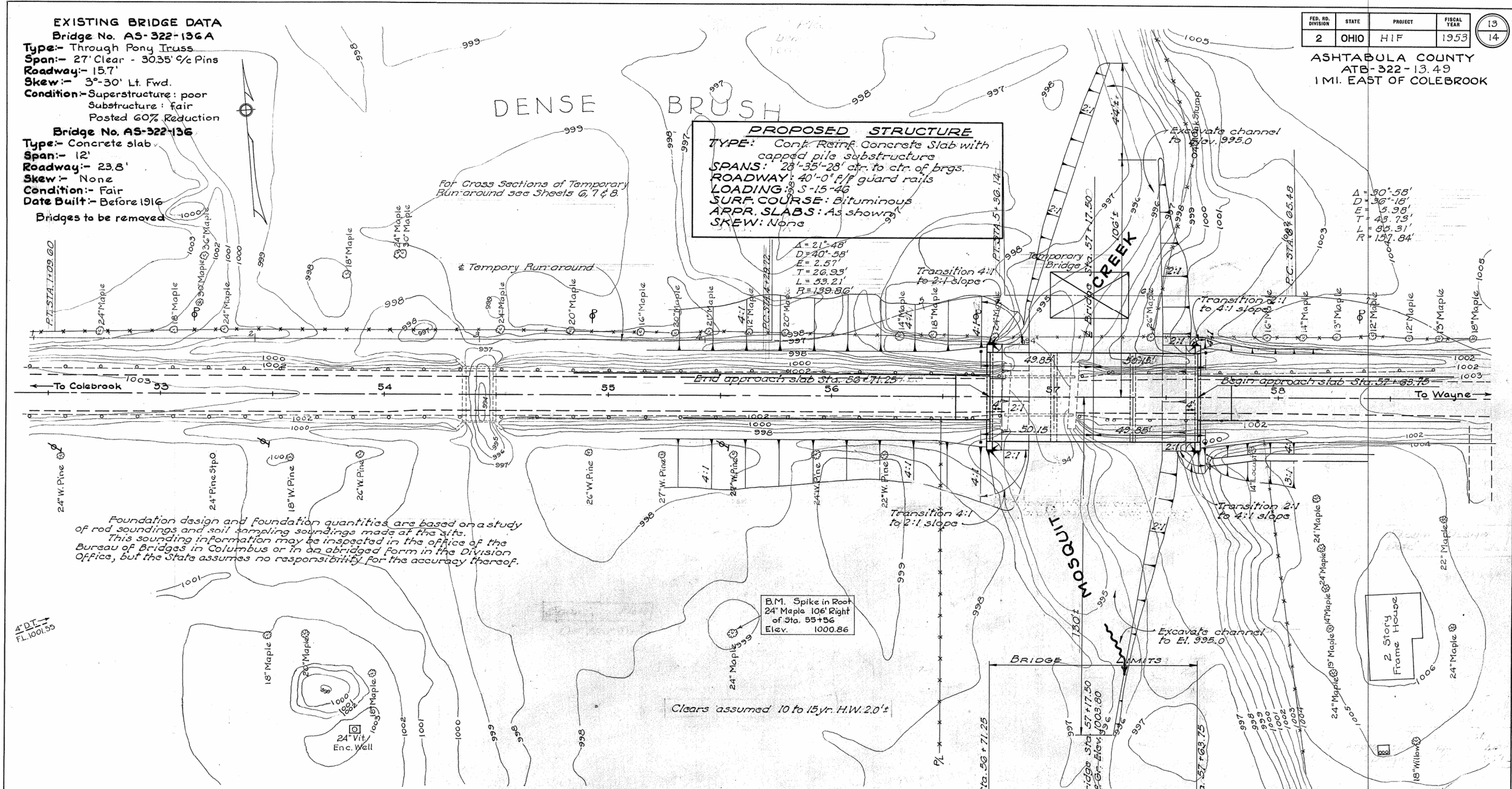
ASHTABULA COUNTY
 ATB-322-13.49
 1 MI. EAST OF COLEBROOK

EXISTING BRIDGE DATA
 Bridge No. AS-322-136A
 Type:- Through Pony Truss
 Span:- 27' Clear - 30.35' % Pins
 Roadway:- 15.7'
 Skew:- 3°-30' Lt. Fwd.
 Condition:- Superstructure: poor
 Substructure: fair
 Posted 60% Reduction

Bridge No. AS-322-136
 Type:- Concrete slab
 Span:- 12'
 Roadway:- 23.8'
 Skew:- None
 Condition:- Fair
 Date Built:- Before 1916
 Bridges to be removed

PROPOSED STRUCTURE
 TYPE: Conkr. Reinf. Concrete Slab with capped pile substructure
 SPANS: 28'-35'-28' ctr. to ctr. of brgs.
 ROADWAY: 40'-0" f/p guard rails
 LOADING: S-15-46
 SURF. COURSE: Bituminous
 APPR. SLABS: As shown
 SKEW: None

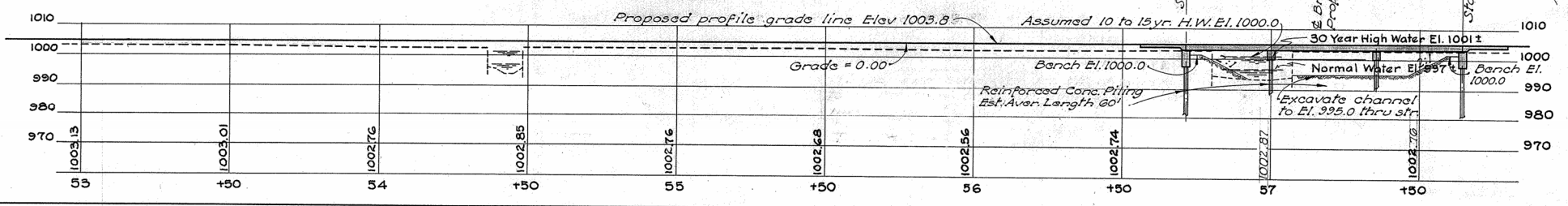
For Cross Sections of Temporary Run-around see Sheets 6, 7 & 8.



Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at this site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

B.M. Spike in Root 24" Maple 106' Right of Sta. 55+56 Elev. 1000.86

Clears assumed 10 to 15 yr. H.W. 2.0'±



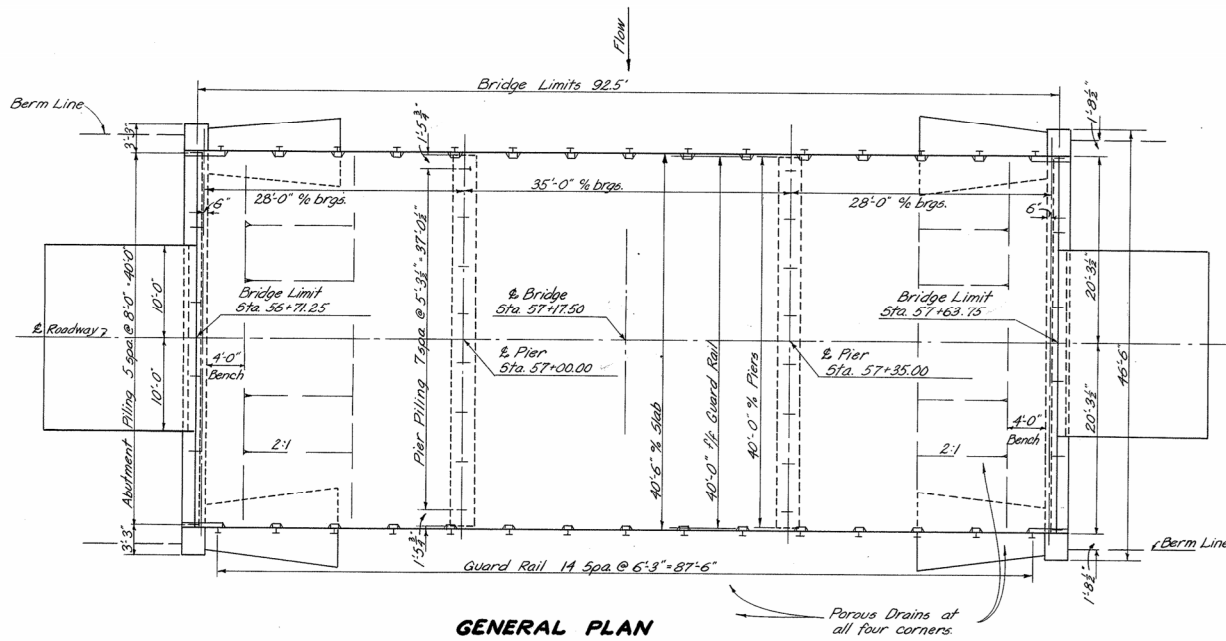
DRAINAGE AREA 78 SQ. MI.

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

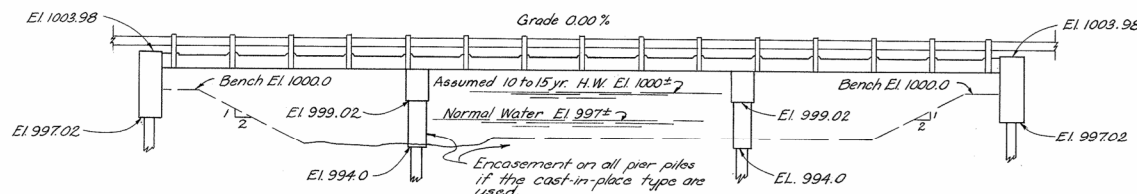
SITE PLAN
 BRIDGE NO. AS-322-136
 OVER MOSQUITO CREEK
 ASHTABULA COUNTY ATB-322
 SEC. ATB-322-13.49
 Scale 1" = 20' Sta. 57+17.50

PRES. TOPOGRAPHY	DESIGNED	DRAWN	CHECKED	REVIEWED
D.D.H.	P.E.J.	J.H.B.	J.H.B.	S.P.

BFG 2-29-52



GENERAL PLAN



GENERAL ELEVATION

ESTIMATED QUANTITIES						
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS
E-2	86	cu yds	Unclassified Excavation		86	
E-3	103	cu yds	Channel Excavation			103.2
S-1	280	cu yds	Class "C" concrete, superstructure & pier caps	176		24
S-1	47	cu yds	Class "C" concrete, abutments		47	
S-3	417	sq yds	Type "C" waterproofing	417		
S-4	46,391	lbs.	Reinforcing steel	37,986	4,879	3,526
S-9	13	sq ft	1/2 preformed expansion joint filler	13		
S-14	185.00	lin ft	Railing, Type I-15.13 with steel posts	185.00		
S-15		lump	Temporary run-around bridge			lump
S-16		lump	First test pile			lump
S-17		lump	Pile test load			lump
S-18	1,680	lin ft	Reinforced concrete piling, 12" cast-in-place or 14" precast	720	960	
S-24		lump	Removal of existing structures			lump
S-29	15	cu yds	Porous drains on embankment slopes			15
S-17	1	each	Subsequent test load			1
T-35	29	cu yds	Asphaltic concrete surface course, Type "A" or "C" (85-100)	29		

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-47 Revised 1-20-48, A-1-49 and P-1-49 dated 7-27-49.

TEMPORARY RUN-AROUND BRIDGE & APPROACHES shall be paid for as lump sum under Item 5-15, except furnishing and placing approach surface course. Surface course aggregate shall be paid for per cu yd. and be governed by Item T-10, except that rolling will be required. Calcium Chloride (M-10), applied to surface course, shall be paid for per ton. Amount of surface material applied and paid for to be as directed by the Engineer. Embankment to be substantially in accordance with E-1.08 with side slopes not steeper than 1 1/2:1. Approaches, T-10 & M-10 are in roadway quantities for payment.

REMOVAL OF EXISTING BRIDGES: Existing structures No AS-322-136 and AS-322-136A shall be removed and become the property of the Contractor. Abutments of AS-322-136 shall be removed to Elev. 999.5. East abutment of AS-322-136A shall be removed to Elev. 994± and west abutment to 6" below finished ground lines. Waste masonry may be disposed of as bank protection as directed by the Engineer.

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

PILING shall be driven to a minimum bearing capacity of 35 tons at the piers and 24 tons at the abutments.

SURFACE FINISH OF CONCRETE: Fascia of deck slab shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 5-1.

BITUMINOUS SURFACE COURSE shall be 2 1/2" asphaltic concrete, Item T-35, laid in two 1 1/4" courses.

POROUS DRAINS extending from face of abutment to Elev. 995 shall be placed on and flush with embankment slopes at all four corners of the bridge. The drains shall be 8 ft wide at the low end, tapering to 5 ft. at face of abutment and one ft. thick. They shall be centered under edge of deck. They shall be composed of No. 1 or No. 12 gravel, stone or slag. Construction procedure shall conform essentially to Item I-9. Trench excavation shall be included for payment with the price per cu yd. bid for "Porous drains on embankment slopes."

REINFORCING STEEL LIST					
MARK	SIZE	NO.	LENGTH	WEIGHT	SHP.
SUPERSTRUCTURE					
A	1"	99	33'-0"	11,109	5t
B	1"	32	24'-3"	2,638	8t
C	1"	32	21'-5"	2,330	8t
D	1"	16	21'-6"	1,170	5t
E	1"	16	18'-3"	993	5t
F	1"	84	21'-0"	6,068	8t
G	1"	42	10'-6"	1,499	5t
H	1"	42	7'-8"	1,035	5t
J	3/4"	42	20'-3"	1,277	5t
K	3/4"	21	19'-6"	615	5t
L	3/4"	94	40'-0"	5,648	5t
M	3/4"	60	40'-0"	3,605	5t
ABUTMENTS					
A7a	1"	48	24'-9"	3,172	5t
A4a	3/4"	128	8'-5"	1,124	8t
A4b	3/4"	30	3'-0"	94	5t
A2a	1/2"	48	5'-3"	168	8t
A2b	1/2"	8	6'-8"	36	8t
A2c	1/2"	8	6'-0"	32	8t
A2d	1/2"	88	3'-6"	205	5t
A2e	1/2"	8	9'-0"	48	5t
PIERS					
P0a	1/2"	8	21'-11"	932	5t
P7a	1"	32	21'-6"	1,836	5t
P2a	1/2"	64	5'-3"	224	8t
P2b	1/2"	58	10'-4"	400	8t
REPLACEMENT					
RE0	1/2"	1	8'-2"	43	5t
RE8	1"	2	7'-4"	50	5t
RE7	1"	1	7'-4"	20	5t
RE5	3/4"	1	6'-6"	10	5t
RE4	3/4"	1	6'-1"	6	5t
RE2	1/2"	1	5'-8"	5	5t

The bar size designations shown above do not correspond with the size designations given in the January 1, 1953 edition of the "Construction and Material Specifications."

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

**GENERAL PLAN & ELEVATION
NOTES, ESTIMATED QUANTITIES
& STEEL LIST
BRIDGE NO. AS-322-136
OVER MOSQUITO CREEK**

ASHTABULA COUNTY
SEC. ATB-322-13.49

DESIGNED: J.N.P. DRAWN: J.N.P. TRACED: R.H.L. CHECKED: E.J.C. REVISIONS: B.F.G. DATE: APR 27-54

STA. 57+17.50

Revised As-Built 6-9-54 J.V.G.