

No PID
C No. 580014

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

LOR-82-(4.79-12.47)

F-602 (14)

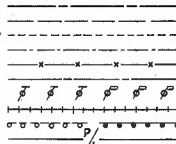
LORAIN COUNTY
EATON AND COLUMBIA TOWNSHIPS

FED. RD. DIST.	STATE	PROJECT
2	OHIO	F-602(14)

LOR-82-(4.79-12.47)

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
FENCE LINE
CENTER LINE
POLE LINE (TELEPHONE & POWER)
RAILROAD
GUARD RAIL (EXISTING & PROPOSED)
PROPERTY LINE

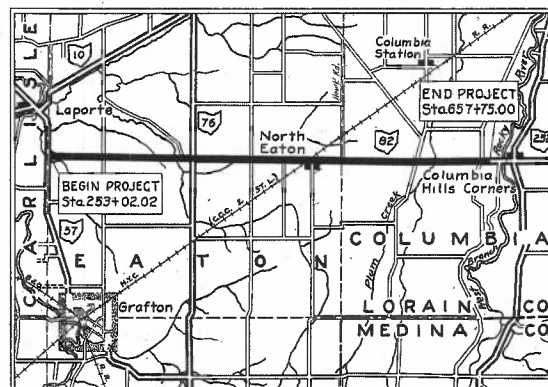


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LINE DATA

	WORK	PROJECT
BEGIN STATION	253+02.02	253+02.02
END STATION	658+00.00	657+75.00
GROSS LENGTH	40,497.98 LIN. FT.	40,472.98 LIN. FT.
DEDUCTIONS	36.58 LIN. FT.	36.58 LIN. FT.
NET LENGTH	40,461.40 LIN. FT.	40,436.40 LIN. FT.
	7.663 MILES	7.658 MILES



DELIVERY POINT NORTH EATON AVERAGE HAUL 2.3 MI.

LOCATION MAP

Scale 1" = 1 MI.
PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

SCALES

PLAN 1" = 50'
PROFILE HORIZONTAL 1" = 50'
PROFILE VERTICAL 1" = 5'
CROSS SECTIONS 1" = 5'
OTHER SHEETS AS SHOWN

STANDARD CONSTRUCTION DRAWINGS

L-1	4-1-50	I-8 CB 2-2A(B)	8-1-56	I-15 NO. 4	12-1-54
L-3	4-1-50	I-8 CB 2-3A(2)	5-1-52	CS-1-54(1) (sub)	7-16-56
L-3-A	4-1-50	I-8 I NO. 1	5-1-52	A-1-54	12-1-54
RI-1	1-3-56	I-8 MH NO. 1	5-1-52	P-1-54	12-1-54
G707	6-1-56	I-8 MH NO. 1-A	1-3-55	AS-1-54	12-1-54
T-35	1-2-56	I-15 NO. 1	8-1-55		
S-27 PC.3	2-20-45				
S-27 PC.4	1-4-54	I-15 NO. 2-A	6-1-57		
T-1,2,3,4,5	2-20-45				

SUPPLEMENTAL SPECIFICATIONS

E-101	1-1-57			
B-119	Rev. 8-16-57			
M-206.6(b)	5-25-56			

The Standard Specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved W.R. Hansen
Date 10-4-57 Division Deputy Director

Approved W.R. Hansen
Date 1-6-58 Deputy Director of Planning and Programming

Approved W.R. Hansen
Date 12-5-57 Engineer of Bridges

Approved W.R. Hansen
Date 12-10-57 Engineer of Location and Design

Approved W.R. Hansen
Date 12-10-57 Deputy Director of Design and Construction

Approved W.R. Hansen
Date 1-6-58 First Assistant Director

Approved George Thompson
Date 1-7-58 Acting Director of Highways

JUN 9 1961
GROUND PHOTOGRAPH

FILE LOR-82-(4.79-12.47)
NO. DATE OF LETTING
2881 CONTRACT NO.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DIVISION ENGINEER DATE

LOR-82-(4.79-12.47)

GENERAL NOTES

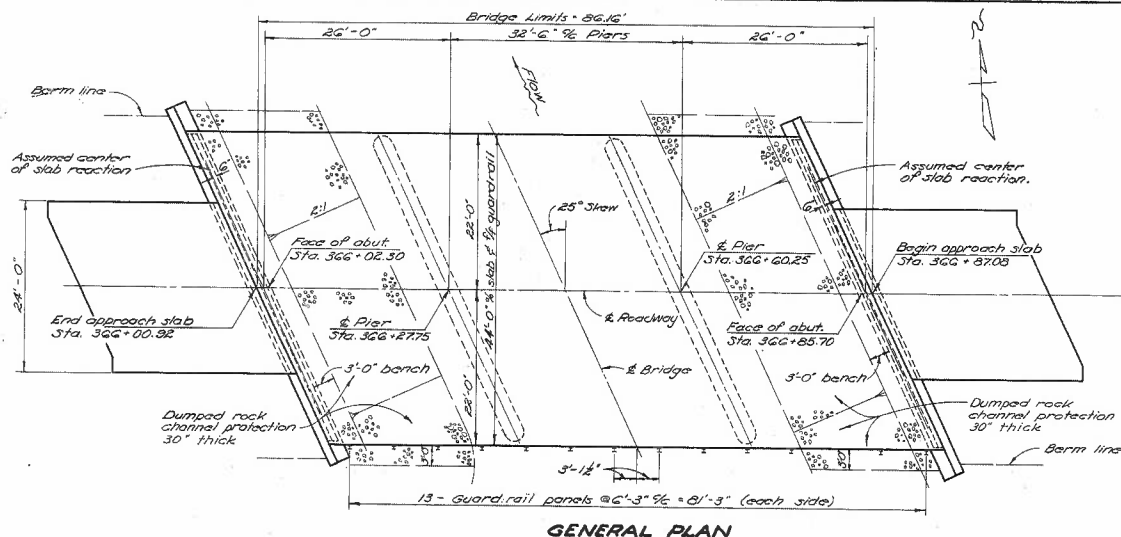
REFERENCE shall be made to Standard Drawings CS-1-54 revised 7-16-56, A-1-54 revised 12-1-54 and P-1-54 revised 12-1-54.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES: Load frequency for bridge, CF-130, with unit stresses increased 25% as per Sec. 82 of the Design Specifications for Highway Structures. Bridge width 24'. Approach width, out-to-out of shoulders, 30'. Approach pavement shall be Class A, 24' wide. Existing superstructure may be moved and used for temporary run-around bridge without strengthening.

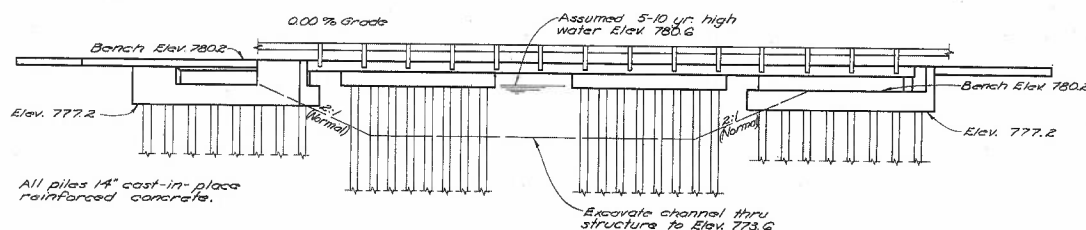
REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Structural steel shall be carefully dismantled and piled along the right-of-way for disposal by the State's forces. Suitable waste masonry may be used as dumped rock channel protection.

PILES shall be driven to a minimum bearing capacity of 25 tons for the abutments and 35 tons for the piers.

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 pile casings shall have a thickness of metal not less than No. 7 gauge, and the pointing of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the pointing shall extend to at least one foot below the proposed surface of the ground.



GENERAL PLAN



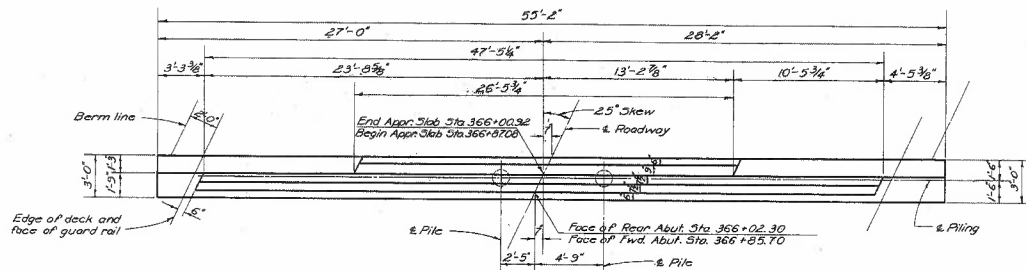
ELEVATION

ESTIMATED QUANTITIES

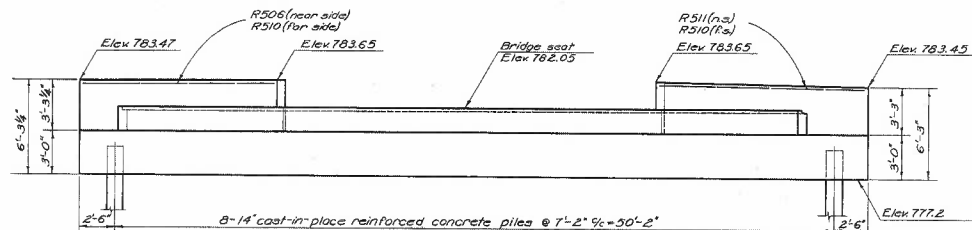
Item	Total	Unit	Description	Super	Abuts	Piers	Gen.
E-2	110	cuyd.	Unclassified excavation		110		
E-3	689	cuyd.	Channel excavation				689
S-1	204	cuyd.	Class C concrete, superstructure & pier caps	187		17	
S-1	56	cuyd.	Class E concrete, abutments		56		
S-4	57633	lb.	Reinforcing steel	46413	6082	4354	
S-14	17232	linft.	Railings (Type 1-15.13 with galvanized steel posts and bolts)	17232			
S-15	lump	sum	Temporary run-around bridge & approaches				lump
S-16	lump	sum	First fast pile				lump
S-18	1000	linft.	14" cast-in-place reinforced concrete piles	420	580		
S-24	lump	sum	Removal of existing structure				lump
S-29	18	cuyd.	Porous backfill		18		
I-10	200	cuyd.	Dumped rock channel protection				200

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES					
GENERAL PLAN & ELEVATION, NOTES and ESTIMATED QUANTITIES					
Bridge No. LOR-82-0693					
over Willow Creek					
Lorain County					
Sta. 366+00.92 366+87.03					
DESIGNED JES	CHECKED JES	APPROVED JES	DATE 4-1-57	REVISIONS	

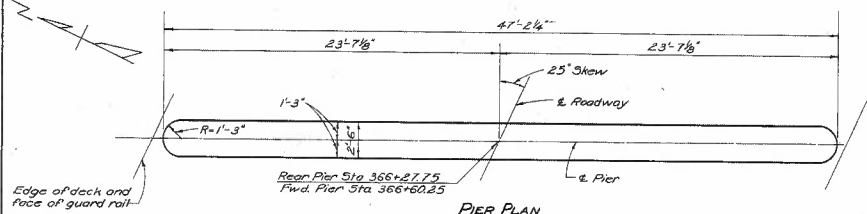
LOR - B2 - (4.73 - 12.47)



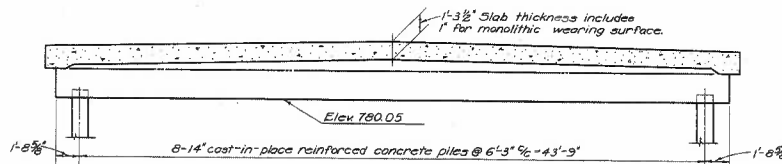
ABUTMENT PLAN



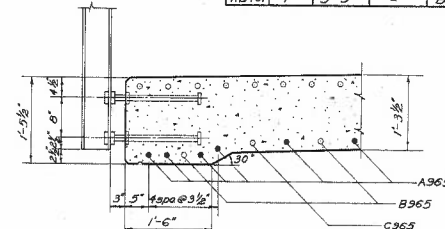
ABUTMENT ELEVATION



PIER PLAN



PIER ELEVATION



EDGE BEAM DETAIL
(For details not shown see 3rd Dwg. C3-1-54)

REINFORCING STEEL LIST				
Mark	No.	Length	Weight	Shp.
Superstructure				
A963	126	30'-6"	13,066	3
B963	36	22'-5"	2,744	B
C963	38	19'-10"	2,562	B
D963	18	21'-4"	1,306	3
E963	19	16'-10"	1,087	3
F963	88	29'-1"	8,702	3
G963	42	15'-5"	2,201	3
H963	44	12'-7"	1,882	3
M701	142	25'-1"	7,280	3
J601	44	15'-6"	1,024	3
K601	22	8'-7"	184	3
N601	114	25'-0"	4,281	3
Piers				
P001	16	25'-7"	1,761	3
P301	16	23'-9"	1,292	3
P101	96	4'-0"	785	3
P501	8	23'-2"	193	3
P502	68	3'-0"	638	B
P503	8	6'-4"	53	B
P401	64	5'-5"	232	B
Abutments				
R1001	16	25'-3"	1,738	3
R801	16	28'-9"	1,228	3
R501	16	28'-9"	471	3
R502	156	6'-7"	1,071	B
R503	8	24'-4"	203	3
R504	24	5'-4"	133	3
R505	36	7'-11"	237	B
R506	2	13'-6"	28	3
R507	16	5'-5"	90	3
R508	32	6'-3"	222	B
R509	32	8'-5"	281	B
R510	4	14'-0"	58	3
R511	2	14'-6"	30	3
R401	64	5'-5"	232	B
Replacement Bars				
RE1001	1	7'-2"	-	3
RE301	2	6'-10"	-	3
RE501	1	6'-6"	-	3
RE701	1	6'-2"	-	3
RE601	1	5'-11"	-	3
RE501	1	5'-7"	-	3
RE401	1	5'-3"	-	B

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec 3-402 need not be furnished and replacement bars will not be required.

For additional abutment and pier details see 3rd Dwg. A-1-54 and P-1-54, respectively.

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF BRIDGE AND CONSTRUCTION BUREAU OF BRIDGES					
ABUTMENT AND PIER DETAILS AND REINFORCING STEEL LIST Bridge No. LOR-B2-0633 over Willow Creek					
Lorain County			Sta 366+00.32		
DESIGNED	DRAWN	CHECKED	TRACED	INVESTIGATED	DATE
PROFESSOR	PROFESSOR	LDC	NEV	866	9-9-57

