

COUNTY OF CUYAHOGA
DECK AND ABUTMENT REPAIRS

BROOKPARK VIADUCT

RIVEREDGE TOWNSHIP
AND
VILLAGE OF PARKVIEW

DATE
BY
SURVEYED
APPROVED
CHIEF CHECKED
BY OR WAY CHECKED

PROFILE
SURVEYED
CHIEF CHECKED
BY OR WAY CHECKED
NOTE BOOK NO.

INDEX OF SHEETS

Title Sheet
Details of Deck and Abutment Repairs
Original Plans - West Abutment
Original Plans - Deck Details
Original Plans - Railing Details
Original Plans - Expansion Joint Details

Sheet No. 1
2-3
4-5
6
7
8



LOCATION PLAN

Scales of Miles
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1

Portion to be improved
State Highways
County Roads

Date of Contract:
Date of Completion:
Constructed By:

Approved: Martin E. Friedman
Date: 6/3/55 Bridge Engineer

Approved:
Date: Land Deputy

SCALES As Shown

BUILT BY CONTRACT 1955

ALBERT S. PORTER
COUNTY ENGINEER

Approved: P.W. Deitsch
Date: 6-3-55 Chief Engineer

Approved: A.V. Dooley
Date: 6-3-55 Chief Deputy

Approved: A. S. Porter
Date: 6/3/55 County Engineer

BOARD OF COMMISSIONERS

Approved: J. J. Cum
Date: 6/6/55 County Commissioner

Approved: J. J. Cum
Date: 6/6/55 County Commissioner

Approved: Henry W. Peeler
Date: 6/6/55 County Commissioner

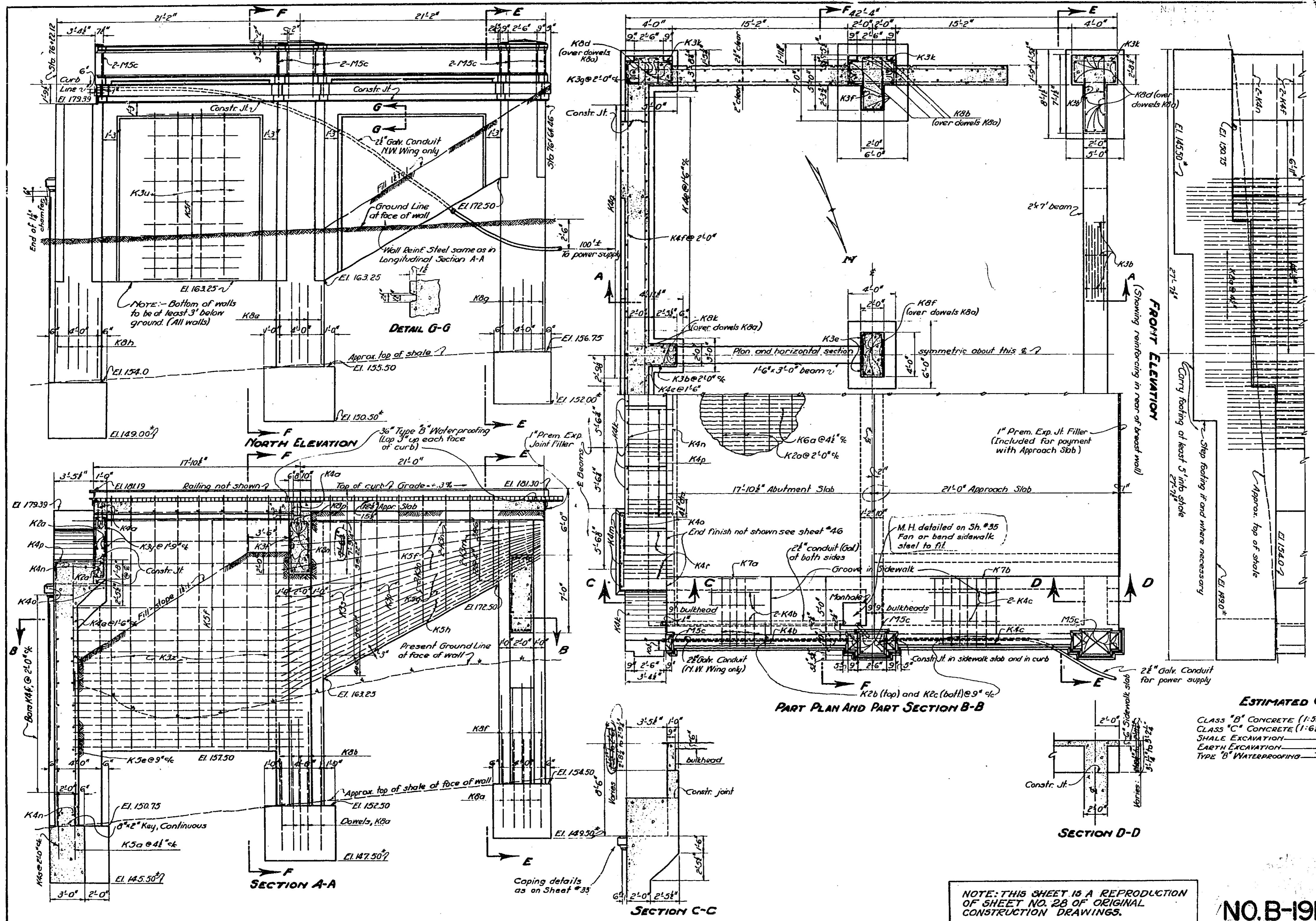
JOURNAL PAGE

MUNICIPALITIES

Approved in Riveredge Township
Ordinance of Consent No. Passed

Approved in the Village of Parkview
Ordinance of Consent No. Passed

BROOKPARK RD. VIADUCT
NO. B-191



O. RD. T. NO.	STATE	FED. AID PROJECT	FISCAL YEAR

48

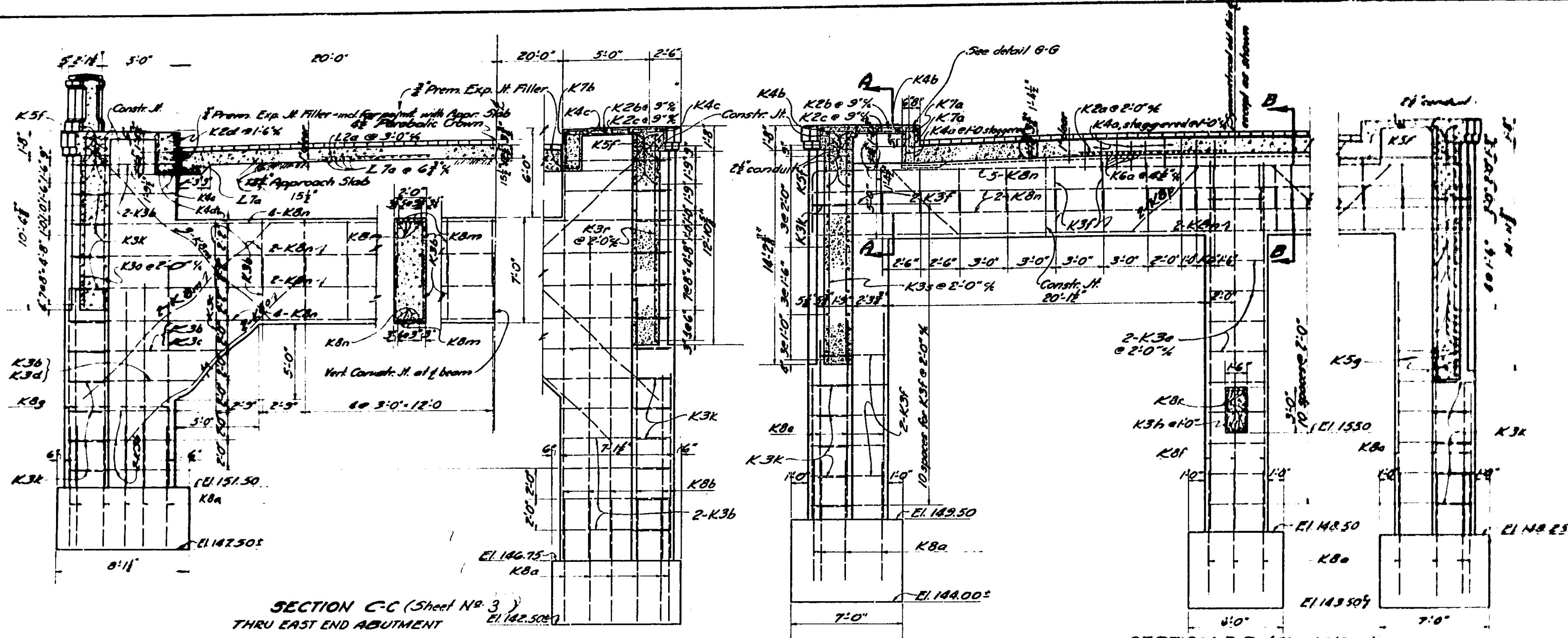
**WEST END AVENUE
BROOKPARK VIADUCT
Over ROCKY RIVER**

Statistical, F₁F₂, and F₁F₂ Selection On Super⁴ 30

CLASS "B" CONCRETE (1:5)	350	Cu. Yds.
CLASS "C" CONCRETE (1:6)	72	Cu. Yds.
SHALE EXCAVATION	72	Cu. Yds.
EARTH EXCAVATION	296	Cu. Yds.
TYPE "B" WATERPROOFING	41	Sq. Yds.

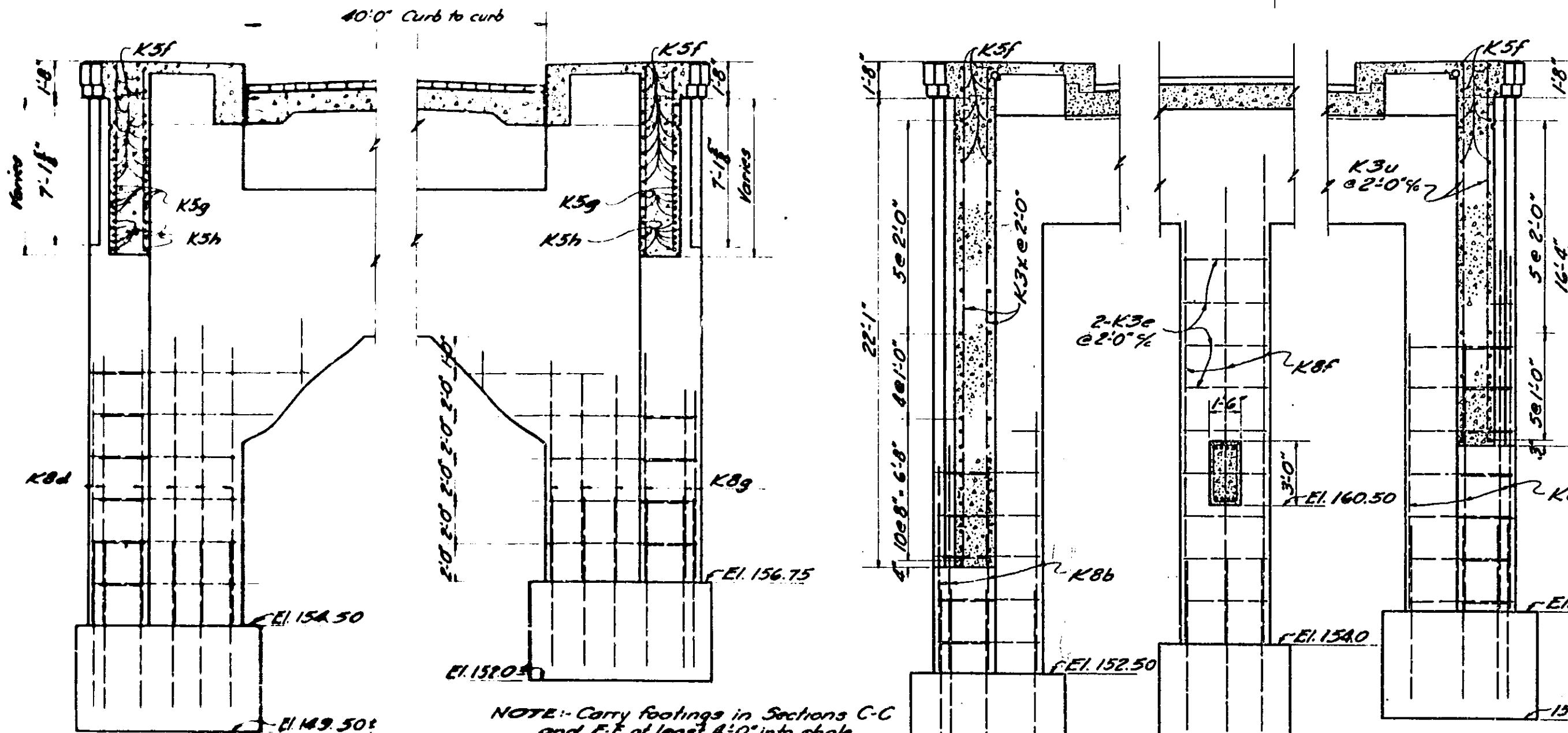
NOTE: THIS SHEET IS A REPRODUCTION
OF SHEET NO. 28 OF ORIGINAL
CONSTRUCTION DRAWINGS.

NO. B-191

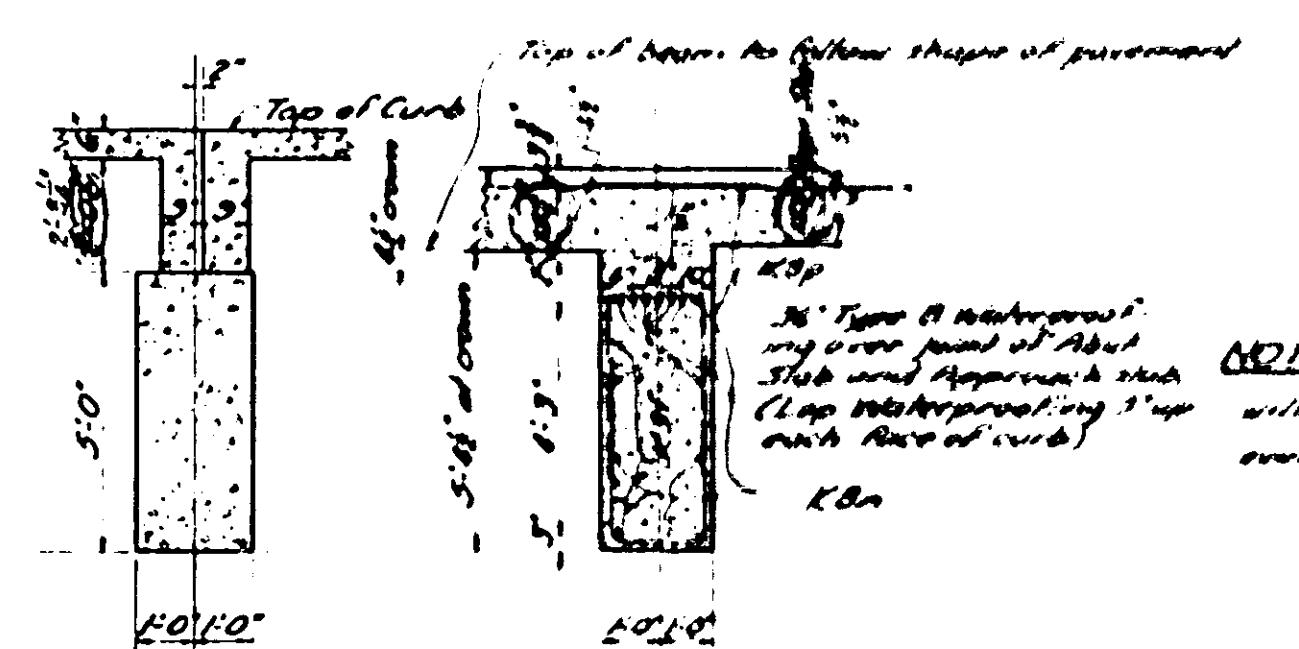


NOTE: THIS SHEET IS A REPRODUCTION
OF SHEET NO. 21 OF ORIGINAL
CONSTRUCTION DRAWINGS.

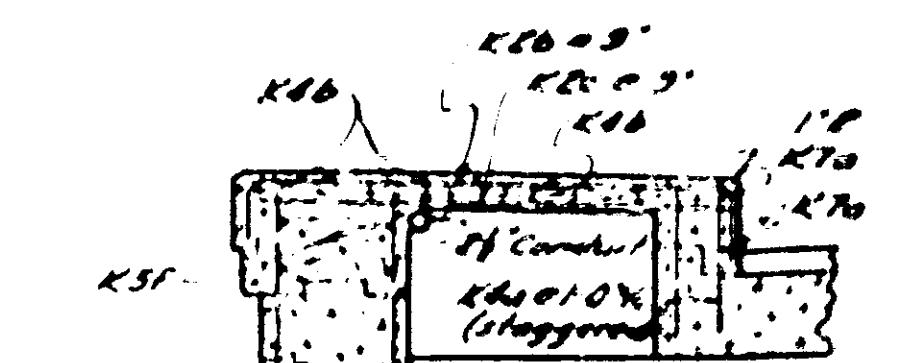
SECTION D-D (Sheet No. 21)
THRU EAST END ABUTMENT



NOTE: Carry all footings in D-D and
F-F at least 5'-0" into shale.



SECTION B-B



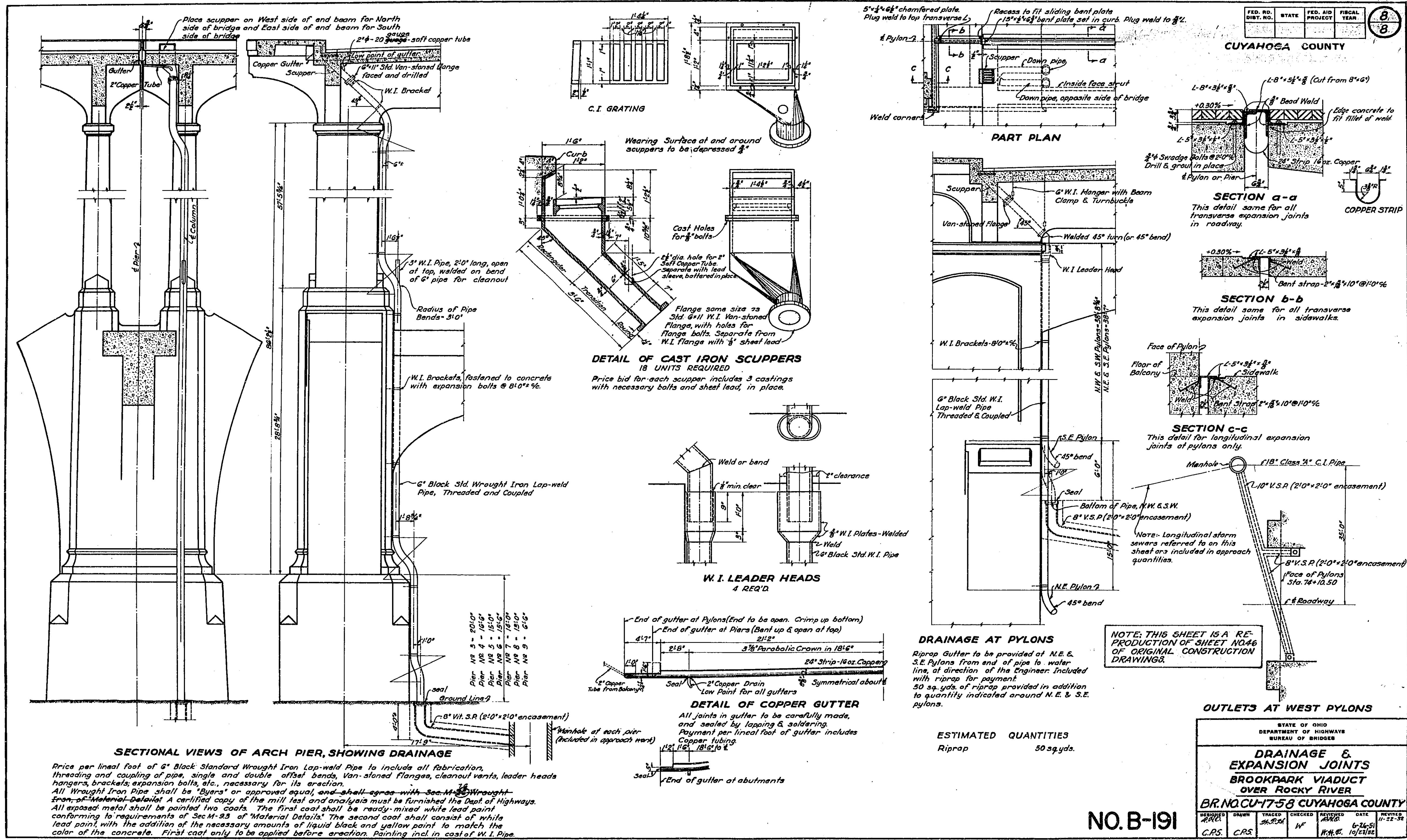
END ABUTMENT CROSS-SECTIONS					
BROOK PARK VIADUCT OVER ROCKY RIVER NO. B-191 CUYAHOGA COUNTY					
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
6/3	1/8	1/8	N	1/4	1/4

NO. B-191

SECTION F-F (see sheet No. 28)
(All details not shown are identical with those in Section D-D)
THRU WEST END ABUTMENT

SECTION G-G (see sheet No. 28)
(All details not shown are identical with those in Section C-C)
THRU WEST END ABUTMENT

SIDEWALK DETAIL G-G
(Sidewalk Details in Section CC Shown)



COUNTY OF CUYAHOGA
ALBERT S. PORTER
COUNTY ENGINEER
DESIGN DEPT

Approved
Date
Land Deputy

Approved 7/14/50 Eng. Div. for
Date 6/29/50 Engineer of Design

Approved A. L. Jackson
Date 6/29/50 Civil Engineer

Approved J. W. Baker
Date 5/13/50 Civil Deputy Engineer

Approved
Date
County Engineer

Approved
Date
County Commissioner

Approved
Date
County Commissioner

Approved
Date
County Auditor

Approved
Date
County Auditor

Approved
Date
County Auditor

BROOKPARK ROAD
CITY OF CLEVELAND
VILLAGE OF BROOKPARK
18x4' CONCRETE BOX CULVERT
25' WEST OF NEW ENGLE RD.

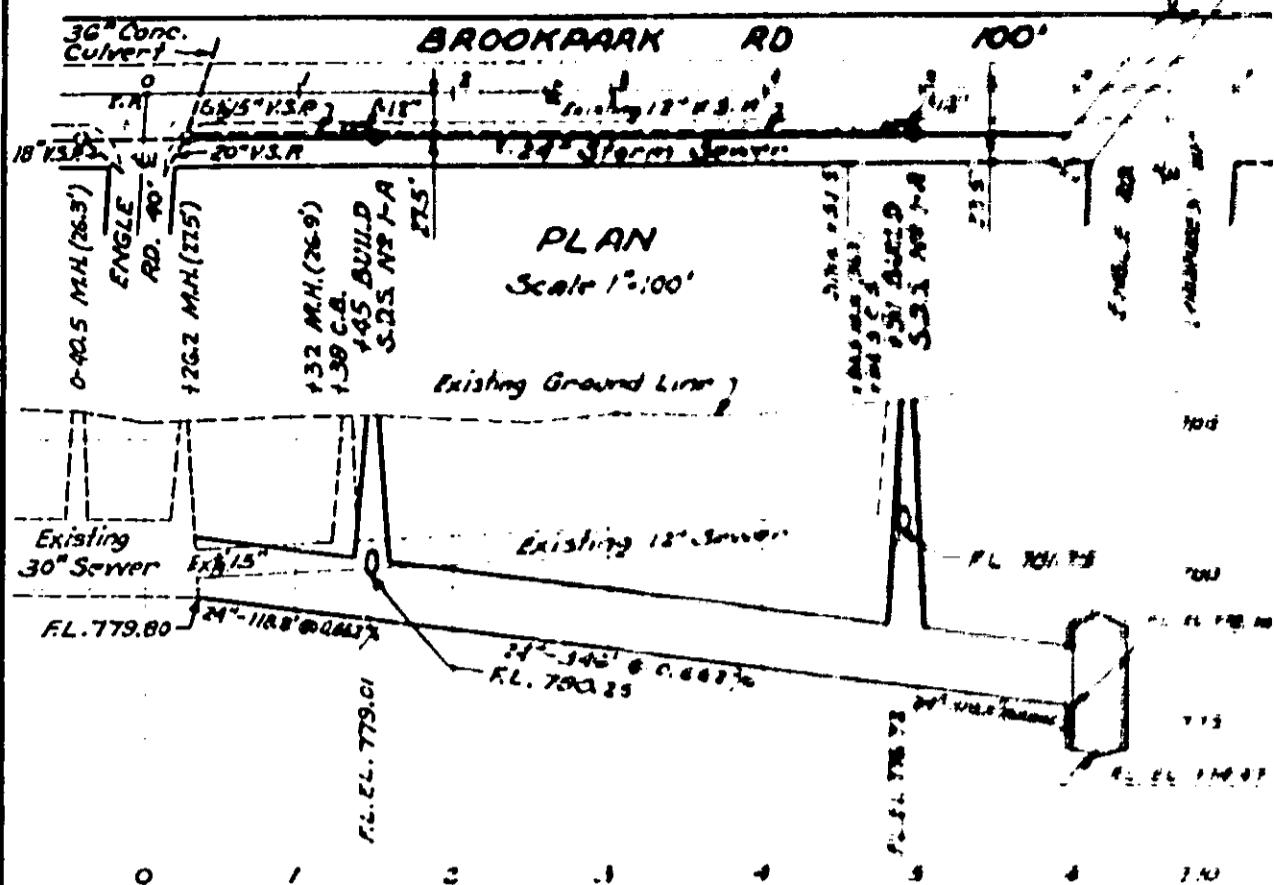
REPORT NO. 6702

NO.B-191



SCALE Indicated DATE 6/29/50
DRAWN BY J.W.B. CHECKED BY G.E.P. REVISED

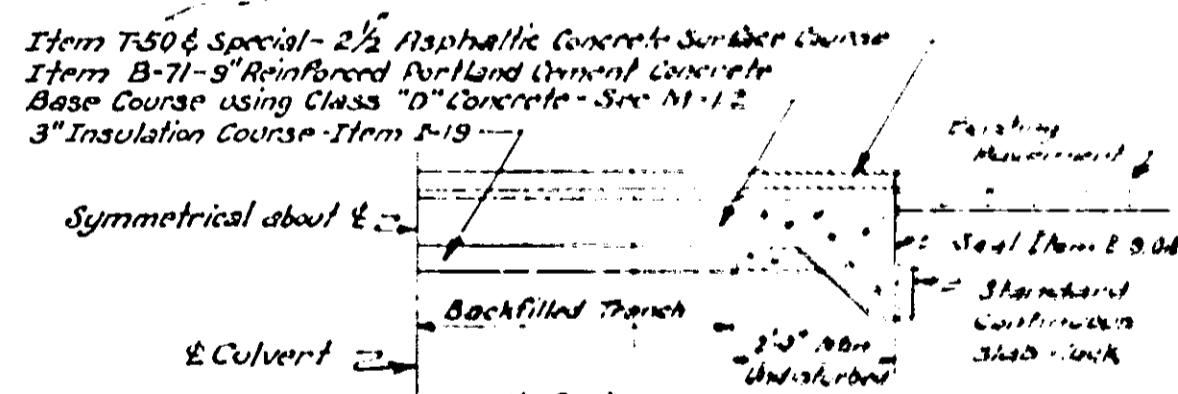
24" STORM SEWER
BROOKPARK RD.



PROFILE

Scales
Hor 1"=100'
Vert 1"=5'

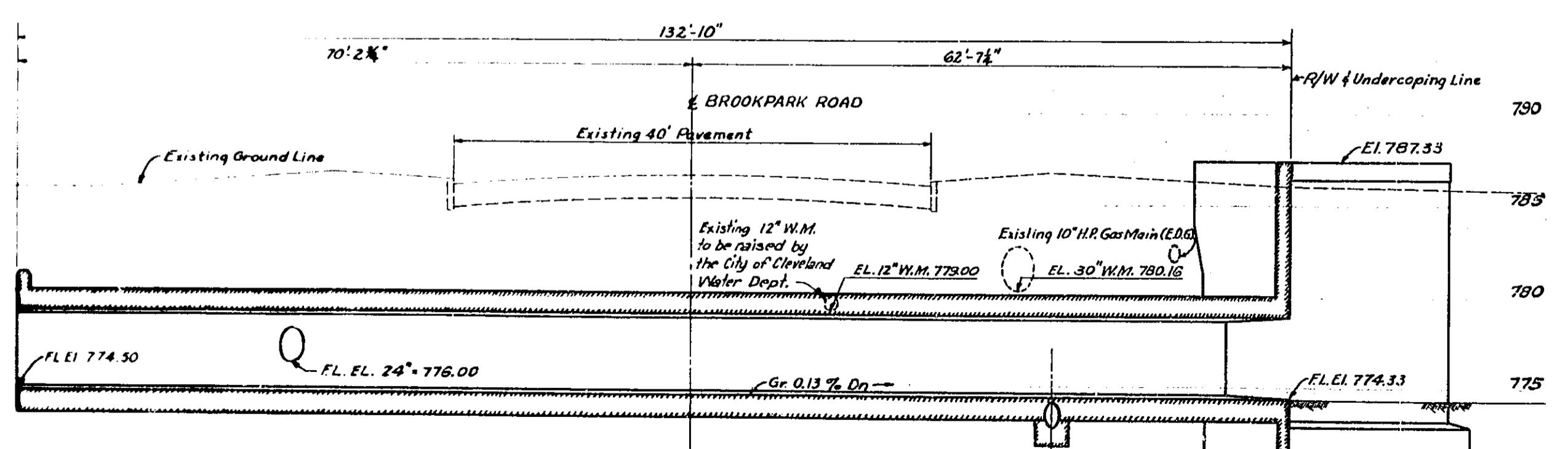
Note:
24" Storm Sewer and Manholes shall not be built until the 18x4' Concrete Culvert and new outlet channel are constructed, complete, ready to receive the storm water runoff.
Existing 18" inlet in M.M. at Sta. 0+41.9 and existing 24" inlet into 36" outlet in M.M. of Sta. 0+46.2 shall be plugged when work is directed by the Engineer. These operations are included in payment in Item T-2 and Special 24" Storm Sewer."



DETAIL OF PAVEMENT REPLACEMENT-ITEM SPECIAL

ESTIMATE OF QUANTITIES

E-2 Excavation for Structures	1800 CU Yds
S-1 Concrete for Structures (Class 2")	320 CU Yds
S-1 Concrete for Structures (Class "E" Footing)	23 CU Yds
S-3 Waterproofing Type "A"	562 Sq Yds
S-3 Waterproofing Type "B"	30 Sq Yds
S-4 Reinforcing Steel (Int. Gr.) M-7.1	70000 LBs
S-5 Copper Waterstop	36 Lin Ft
S-14 Concrete Railing	40 Lin Ft
S-27 Spec. 18" Sanitary Sewer Cast Iron Pipe	32 Lin Ft
S-29 Porous Backfill	150 CU Yds
I-2 Spec. 12" Storm Sewer V.S.R.(a) Enclosed or RCCP(b)	20 Lin Ft
I-2 Spec. 24" Storm Sewer V.S.R.(a) Enclosed or RCCP(b)	575 Lin Ft
I-4 Spec. 4" V.S.P. Underdrain	40 Lin Ft
I-8 Manholes S.D.S. No 1-A Storm Sewer	2
I-8 Manholes S.D.S. No 1-A Sanitary Sewer	2
E-8 Pavement Removal	Lump Sum
Spec. Pavement Replacement	Lump Sum
I-11 Spec. Straight Sandstone Curb Reset	40 Lin Ft
S-15 Spec. Temporary Run-Around Roadway	Lump Sum

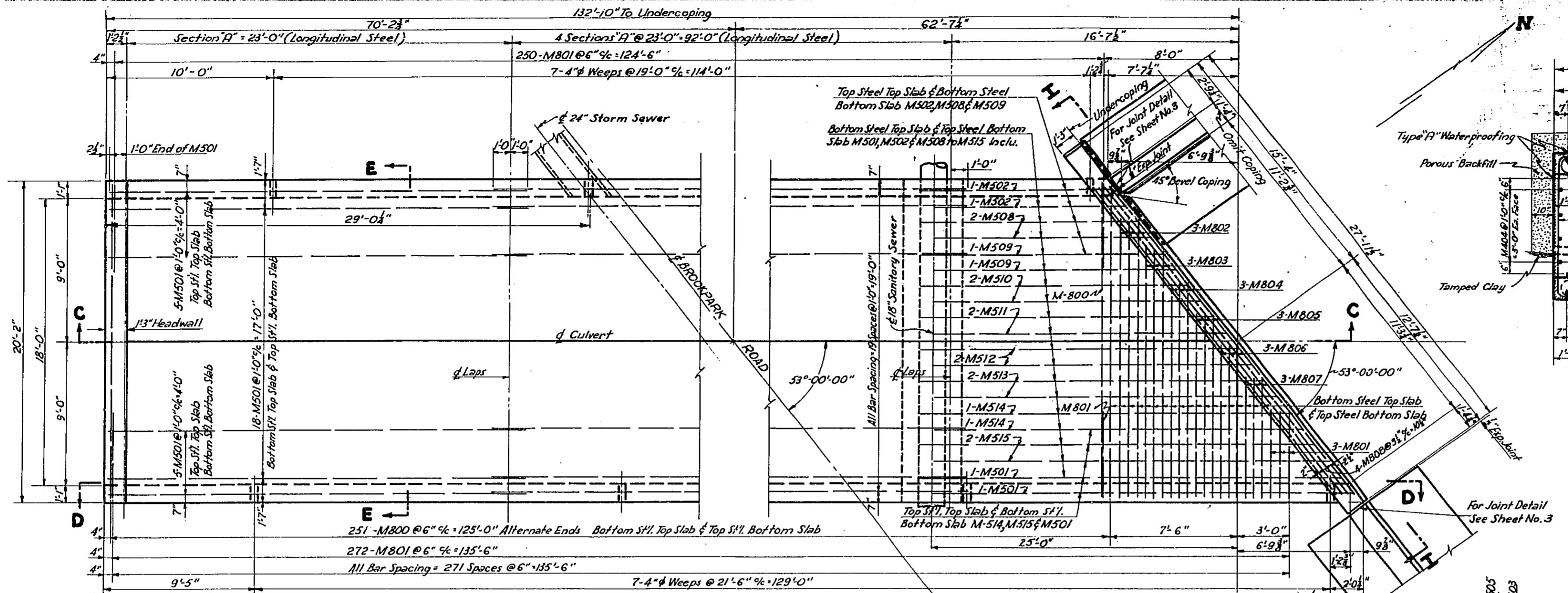


PROFILE ALONG CULVERT

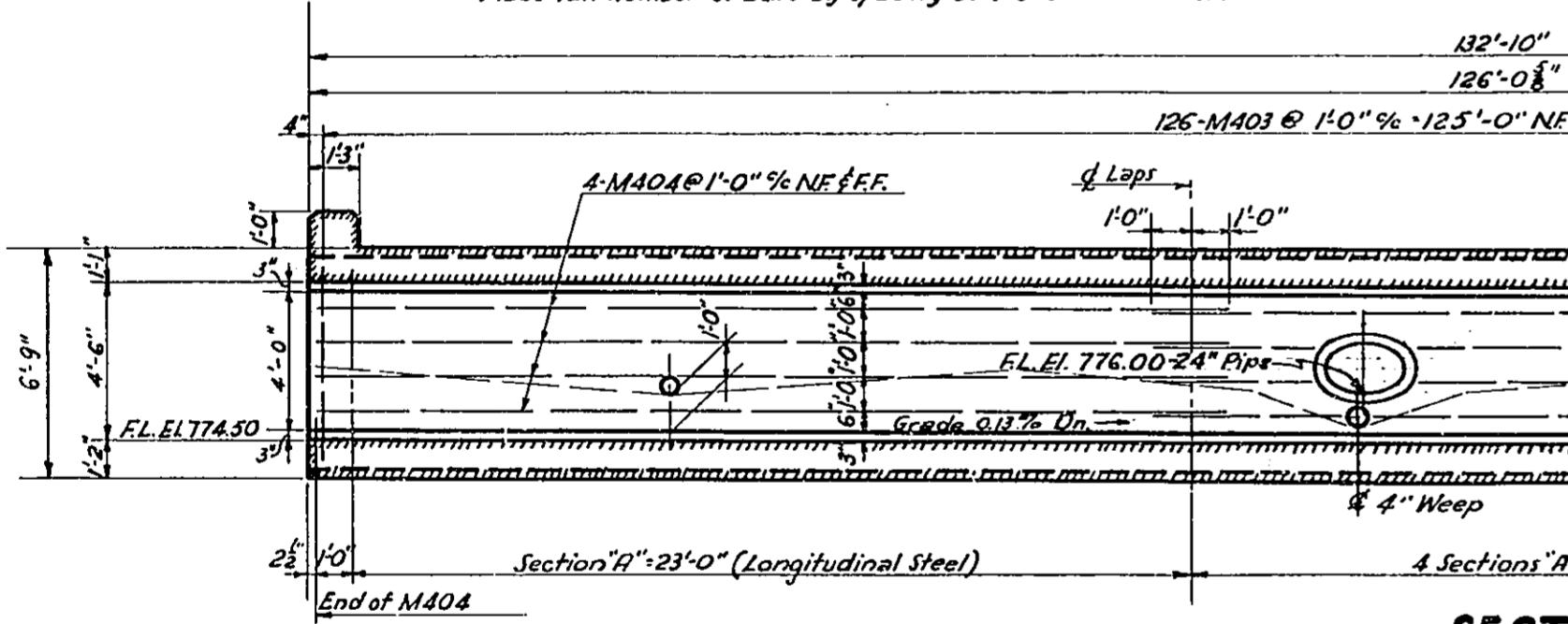
Railing on Handwall Not Shown
Scales - 1"=10' Hor. & 1"-5" Vert.

Note:
The joint in the 18" cast iron sanitary sewer within the slab of the culvert shall be a butt joint, requiring the removal of the bell end of one section of the pipe. The butting ends shall be reasonably true and smooth. The entire joint shall be wrapped around with a suitable wire screen and fully encased as detailed. No additional payment will be allowed for this operation.

BUILT BY CONTRACT-1950
25' WEST OF NEW ENGLE ROAD

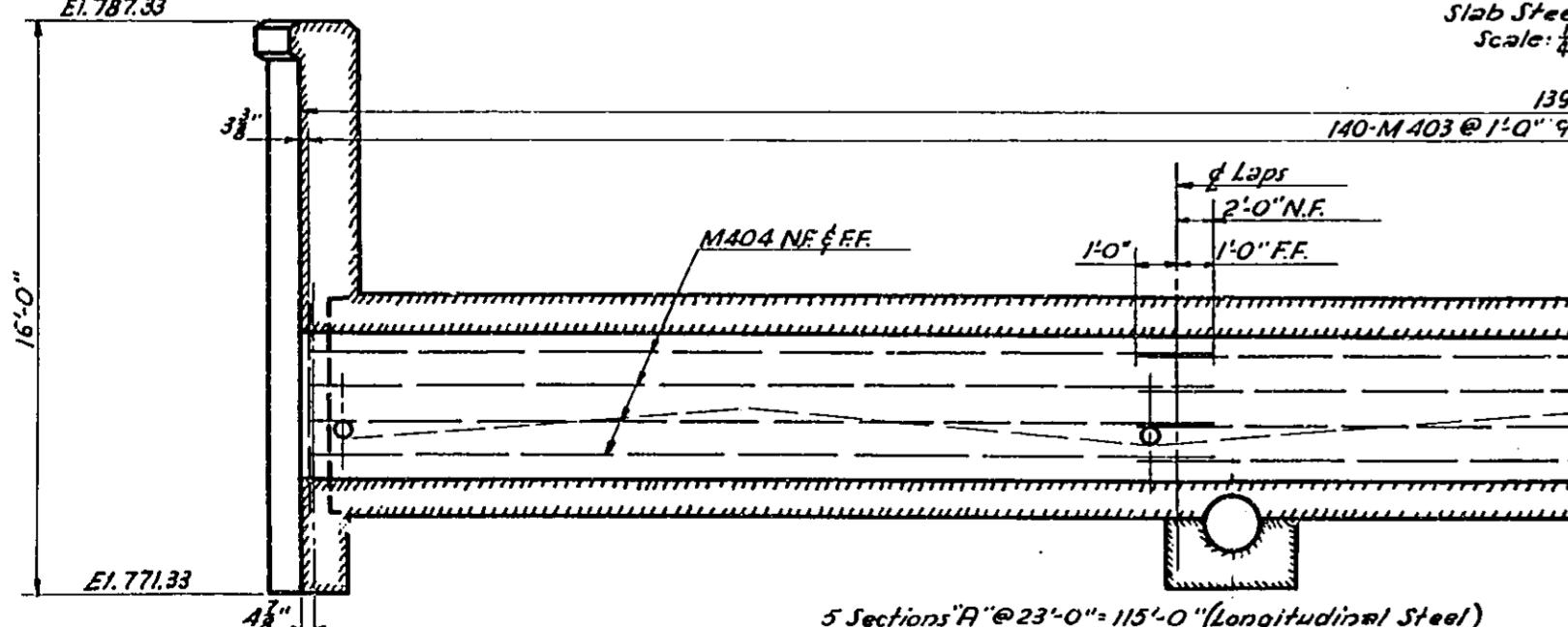


NOTES:
The 4" U.S.P. Weeps are included for payment in the unit price bid
for "Item 5-1, Concrete for Structures."
No vertical steel to be cut at location of 24" Storm Sewer.
Place full number of bars by spacing bars closer on each side.



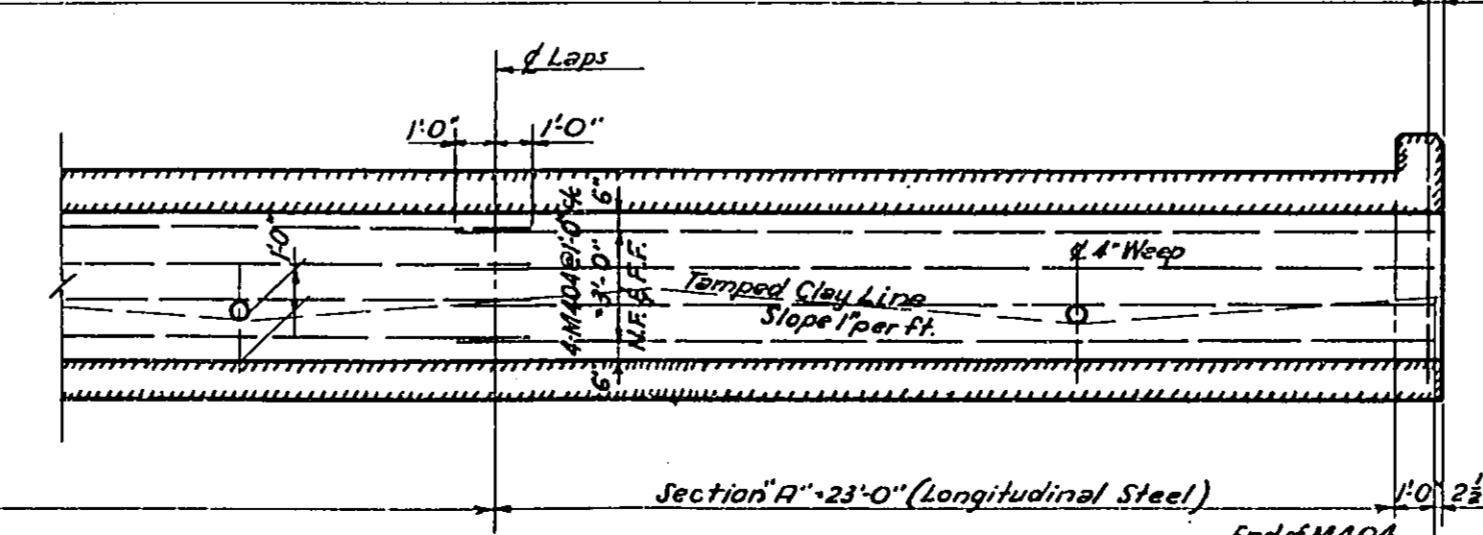
SECTION C-C

*Slab Steel Not Shown
Scale: $\frac{1}{4}$ " = 1'-0"*



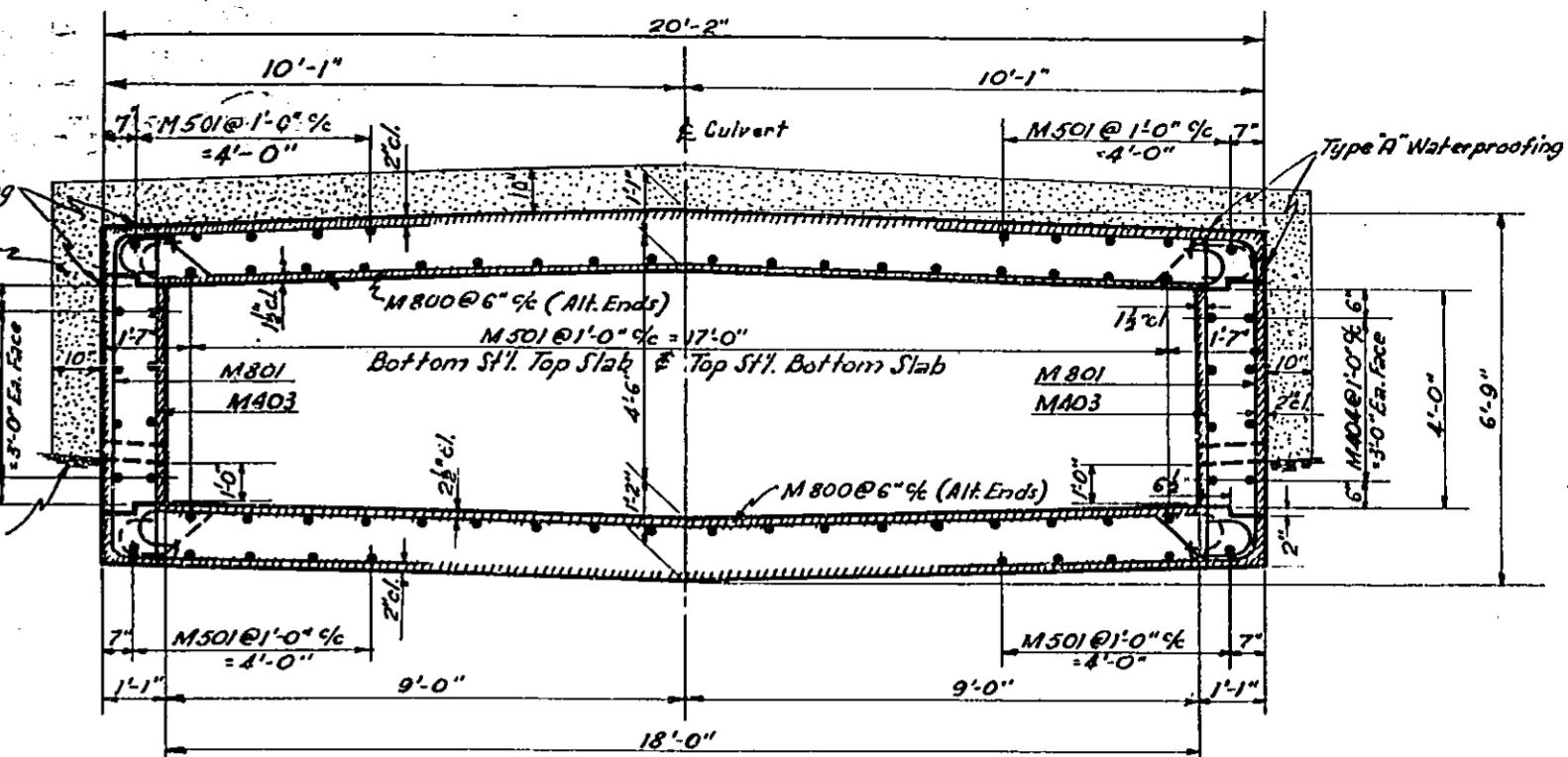
SECTION D-D

*Headwall & Slab Steel Not Shown
Scale: $\frac{1}{4}$ " = 1'-0"*



Note - Reinforcing steel shall be placed to clear
18" Cast Iron Pipe Sewer as directed by the Engineer

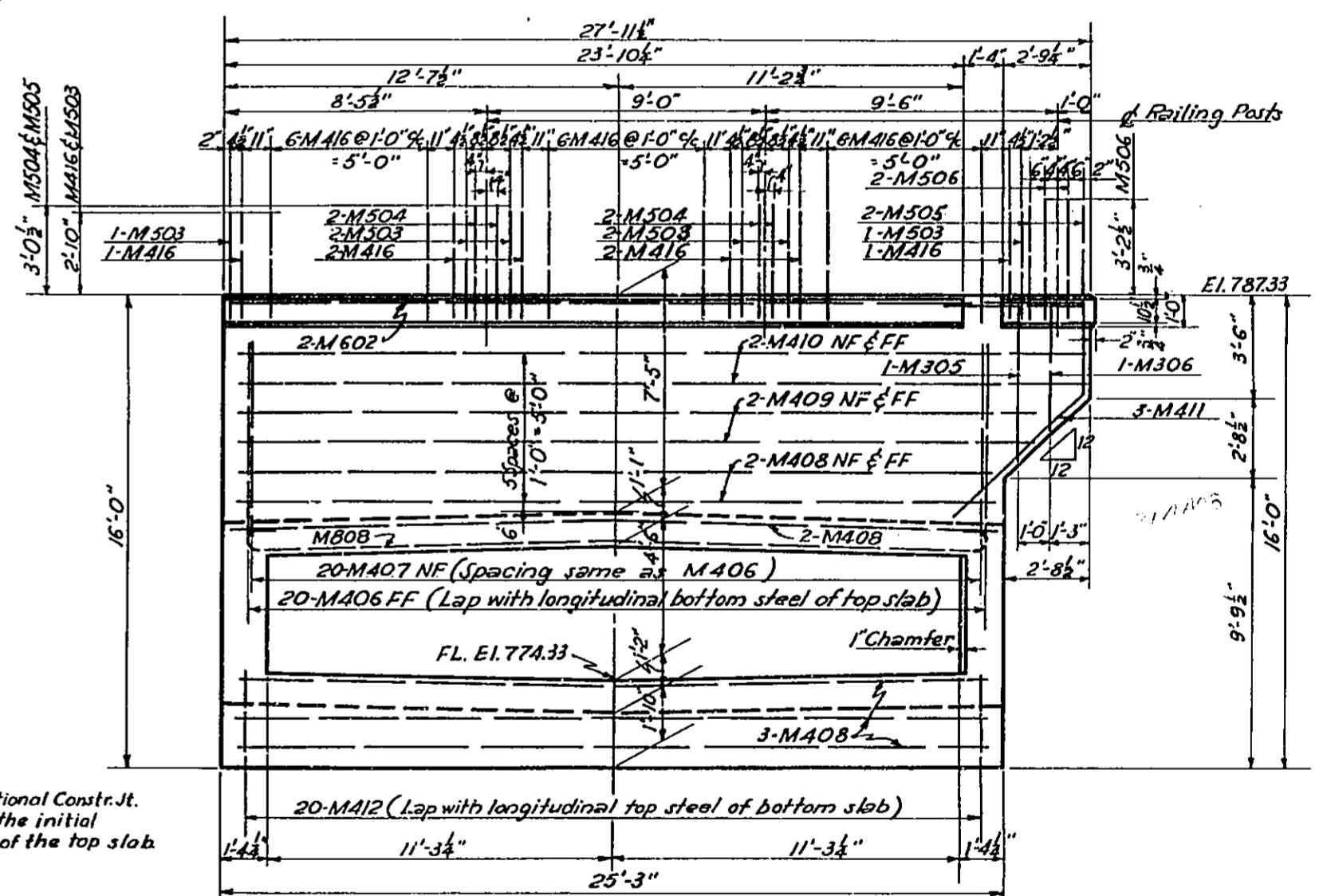
Note- Concrete in Headwall above Optional Constr. St. shall be poured immediately after the initial set has taken place in the concrete of the top slab.



SECTION E-E

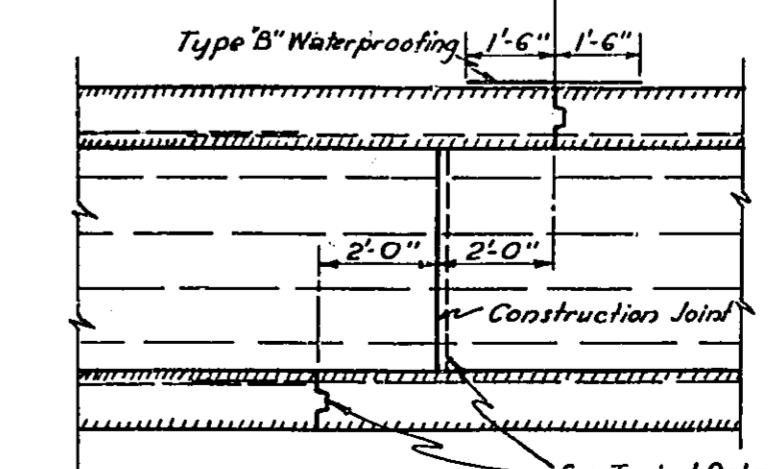
compte $\frac{3}{8}'' = 1'' - 0''$

Note: Chamfer exposed edges $\frac{3}{8}$ " except as noted.



ELEVATION H-H

scale $\frac{1}{4}'' = 1'-0''$



*See Typical Detail of Key
Sheet No 3*

BARREL CONSTRUCTION JOINT

No Scale

BROOKPARK ROAD

18'x4' CONCRETE BOX CULVERT
25' WEST OF NEW ENGLE RD

CONTOUR E- 205

REPORT NO. 6702

REF ID: A6002

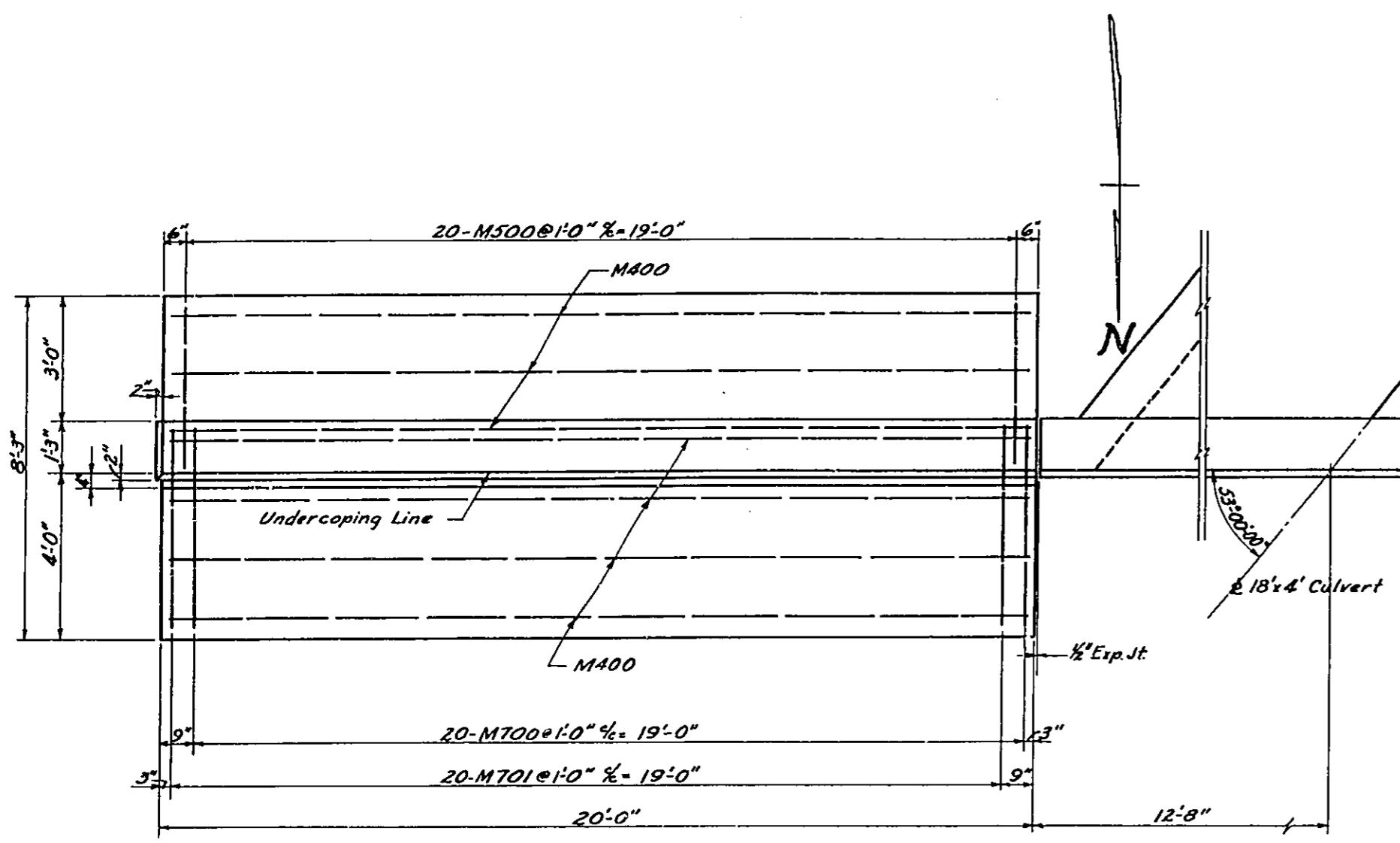
10 B=10

NO. B-191

117-Substantive DATE 10/10

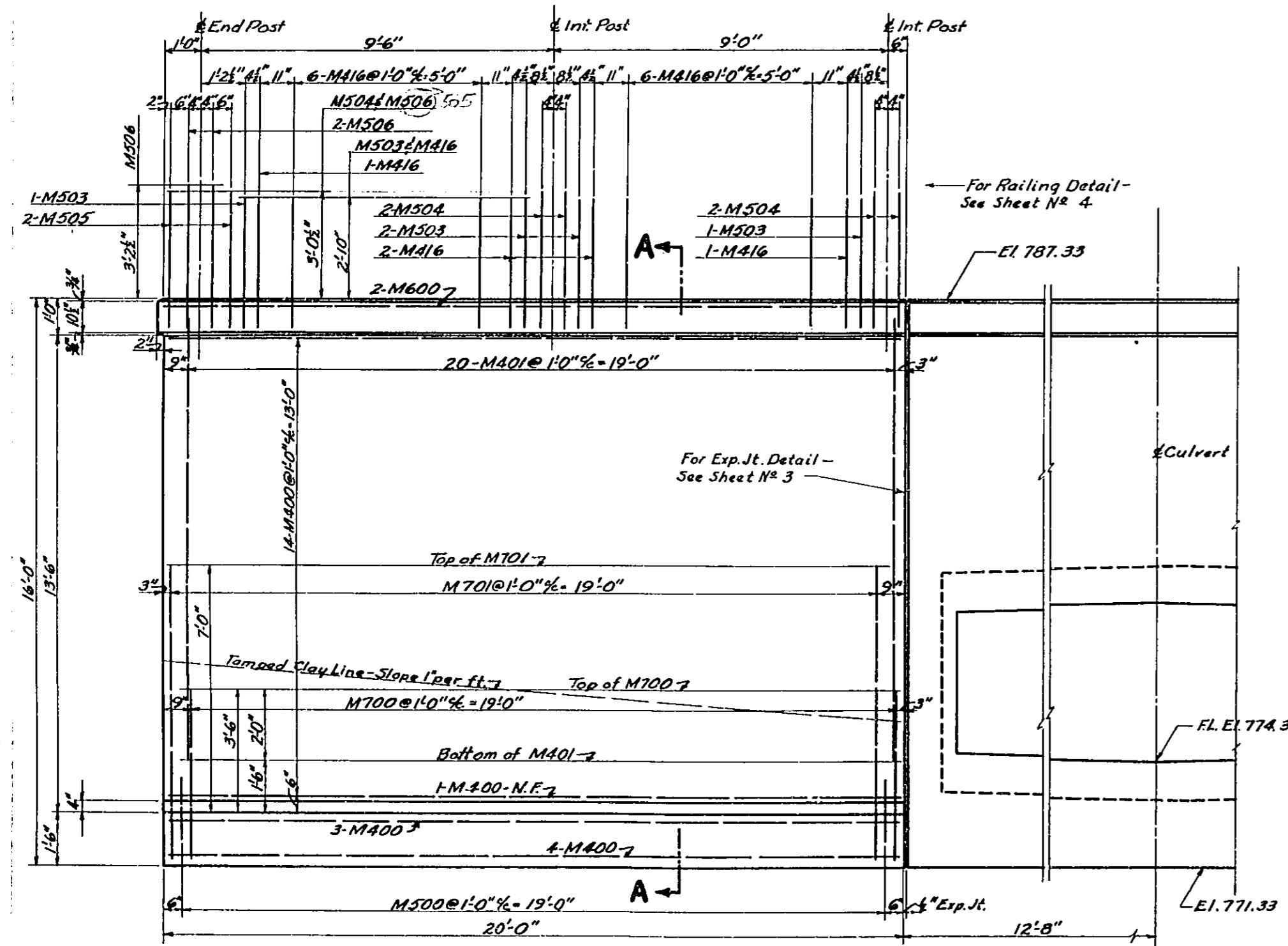
DATE 3/7/50

AWN BY C.V.R CHECKED BY T.R.C REVISED _____



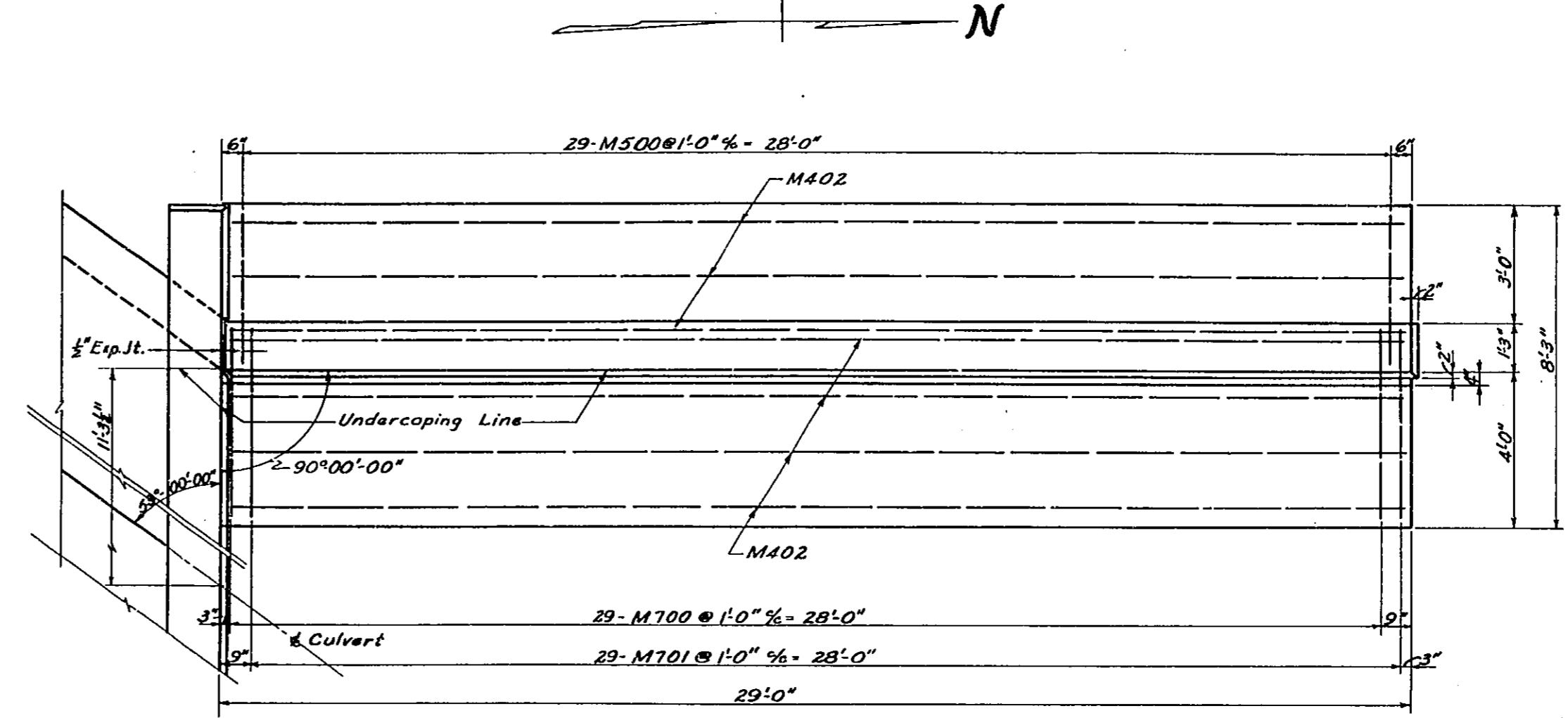
PLAN OF EAST WING-NORTH HEADWALL

*Stem Reinforcing Not Shown
Scale - $\frac{3}{8}'' = 1'-0''$*



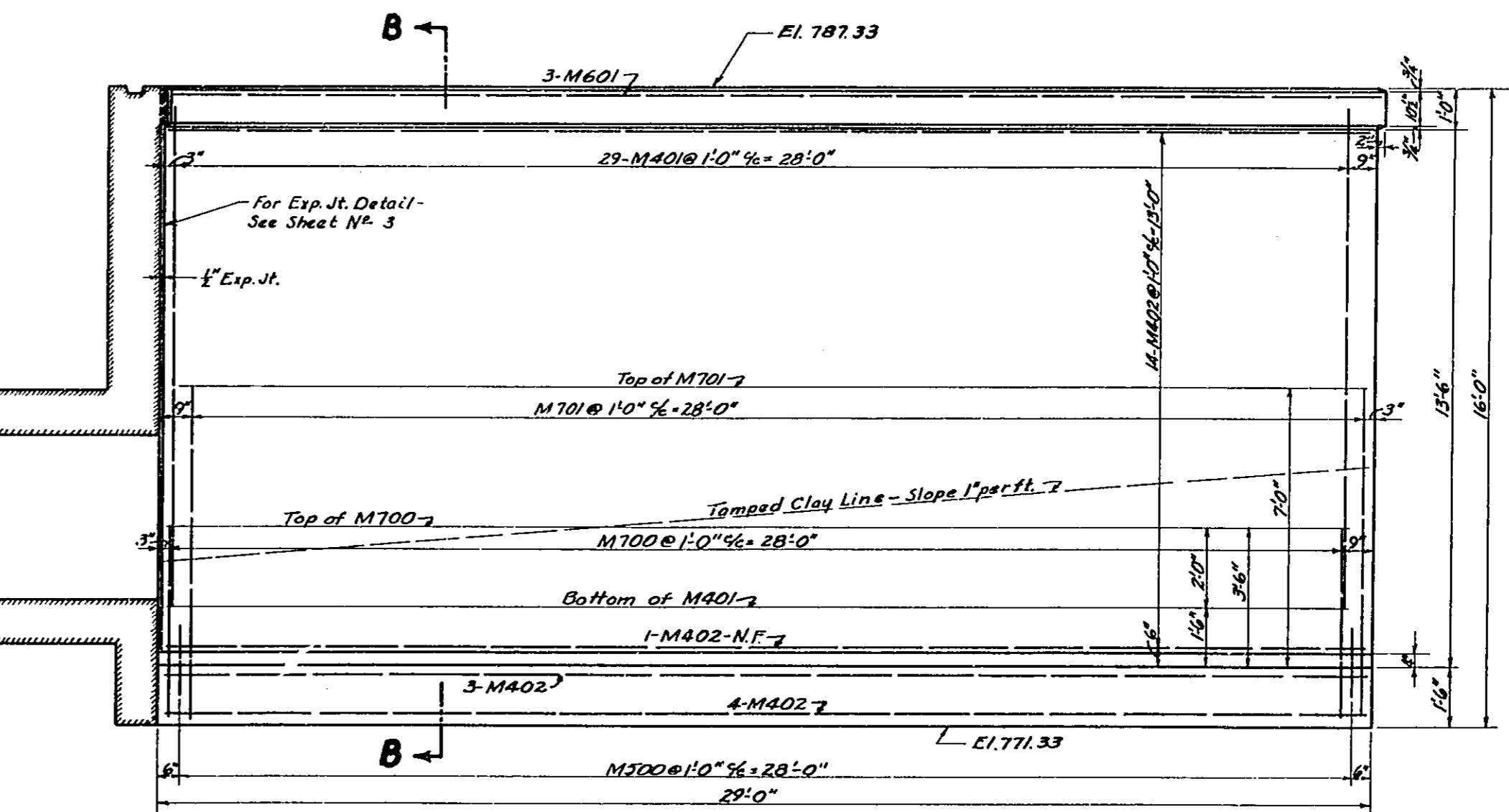
ELEVATION OF EAST WING - NORTH HEADWALL

$$Score = \frac{7}{8} = 1.$$



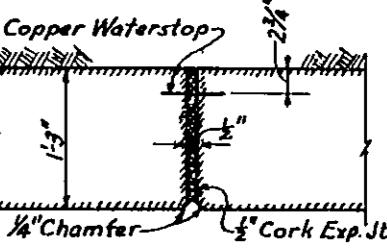
PLAN OF NORTH WING - NORTH HEADWALL

*Stem Reinforcing Not Shown
Scale - $\frac{1}{8}$ " = 1'0"*



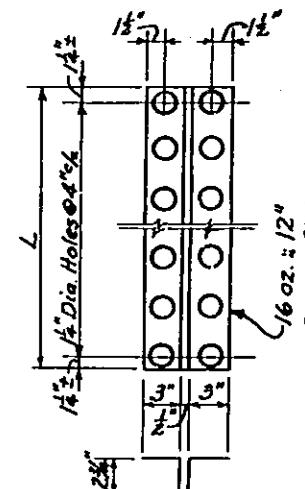
EL E V A T I O N O F N O R T H W I N G - N O R T H H E A D W A L L

Scale - $\frac{3}{8}'' = 1'-0''$



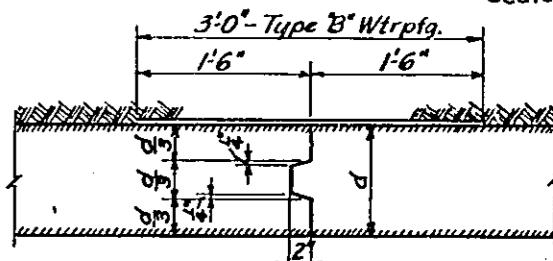
DETAIL OF EXP JT.

Note- All $\frac{1}{2}$ " Cork Expansion Filler to be included in price bid per lin. ft. of Copper Water-stop.



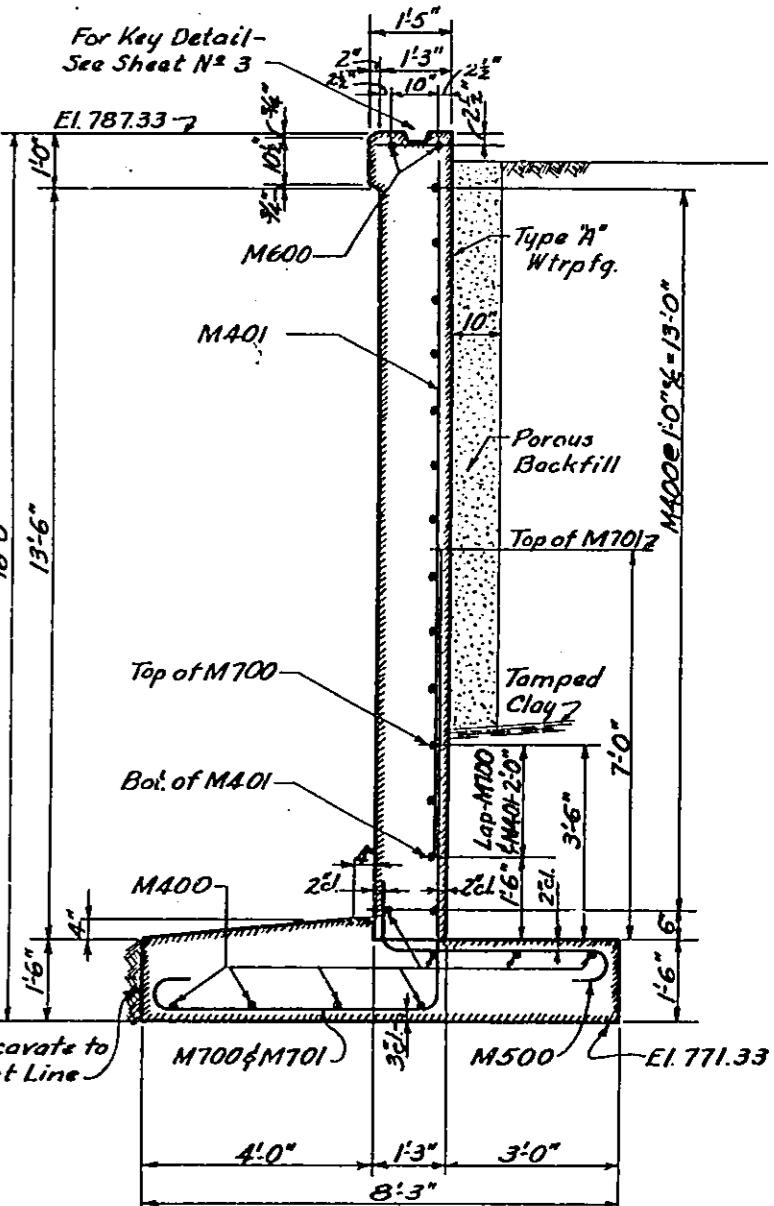
DETAIL OF COPPER WATERSTOP

Scale = 1' / 0'



TYPICAL KEY CONSTR.JT.

Not to Scale



SECTION A-A As Shown

SECTION B-B As Shown Except M601
Replaces M600, M402 Replaces M400 &
Omit Keyway for Railing.

Note - All exposed edges shall have a $\frac{3}{4}$ " Chamfer unless otherwise noted.

BROOKPARK ROAD

8'x4' CONCRETE BOX CULVERT
25' WEST OF NEW ENGLE RD

CONTOUR F- 205

REPORT NO. 6702

3

FILE NO.	DATE	PERIOD
2	OHIO	

CUYAHOGA COUNTY
CUY.-17-5.82

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUY.-17-5.82
CUYAHOGA COUNTY
CITY OF FAIRVIEW PARK
RIVEREDGE TOWNSHIP

1967 SPECIFICATIONS

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

CONVENTIONAL SIGNS

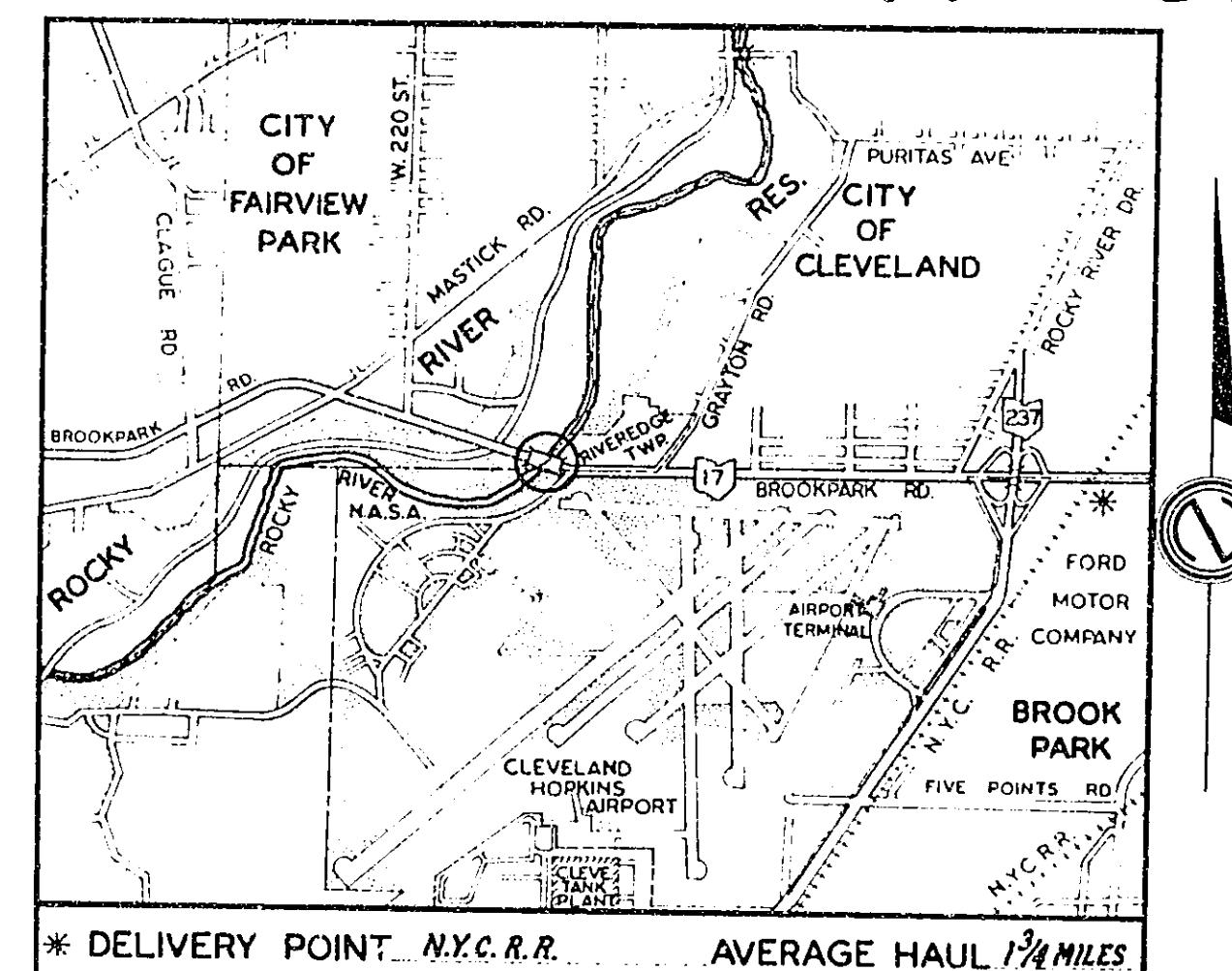
CORPORATION LINE
TOWNSHIP LINE
CENTER LINE
RAILROAD

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES	2
BRIDGE REPAIR DETAILS	3-4
GENERAL SUMMARY	4

LINE DATA

LENGTH OF PROJECT - 0.00 LIN. FT. OR 0.00 MILES
BEGIN WORK STA. 0+00
END WORK STA. 19+17.8
NET LENGTH OF WORK = 1917.8 LIN. FT. = 0.3632 MILES



LOCATION PLAN

SCALE IN MILES
0 3000 FT 1 MILE

PORTION TO BE IMPROVED. STRUCTURE NO.
STATE ROADS CUY-17-0582
OTHER ROADS

SCALES
DETAILS AND PLAN: (AS INDICATED ON SHT. 3 & 4)

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS			
MC-3	5-1-66		

SUPPLEMENTAL SPECIFICATIONS			

FILE NO. CUYAHOGA COUNTY
DATE OF LETTING
CONTRACT NO.

CUY.-17-5.82
1967

Approved _____
Date _____ Division Deputy Director

Approved _____
Date _____ Engineer of Bridges

Approved _____
Date _____ Engineer of Location and Design

Approved _____
Date _____ Deputy Director of Design and Construction

Approved _____
Date _____ Deputy Director of Right of Way

Approved _____
Date _____ Deputy Director of Planning and Programming

Approved _____
Date _____ First Assistant Director

Approved _____
Date _____ Director of Highways

Approved _____
Date _____ County Engineer

BOARD OF COMMISSIONERS - CUYAHOGA COUNTY

Date

TITLE SHEET

FILE NO.	DATE	EXPIRE
2	OHIO	

CUYAHOGA COUNTY
Cuy. 17 - 5.82

GENERAL NOTES

ITEM 6.4 - MAINTAINING TRAFFIC

INTER THE ITEM, THE CONTRACTOR SHALL MAINTAIN AND PROTECT TRAFFIC, BY THE USE OF LABOR, EQUIPMENT AND MATERIALS, ON SECTIONS OF THE BRIDGE AND THE BRIDGE APPROXIMATES IN WHICH NO WORK IS BEING PERFORMED AND WHICH WILL REMAIN IN FULL SERVICE. IN GENERAL, IT IS INTENDED THAT THE CURBS ON EACH SIDE OF THE BRIDGE SHALL BE INSTRUCTED EITHER PRIOR TO THE WORK ON THE EXPANSION JOINTS IN THE ADJACENT CURB LANE OR SIMULTANEOUSLY THEREWITH. IN ANY CASE, HOWEVER, ONLY ONE SIDEWALK AND THE ADJACENT CURB LANE SHALL BE BLOCKED AT ANY TIME IN THIS CONNECTION. IT IS EMPHASIZED THAT ONLY ONE TRAFFIC LANE ON THE ROADWAY OF THE BRIDGE AND ON THE APPROXIMATES SHALL BE CLOSED TO TRAFFIC AT ANY TIME DURING THE ENTIRE CONSTRUCTION.

THE CONTRACTOR SHALL PROVIDE SUITABLE BARRICADES OR CHANNELIZING DEVICES ON THE ROADWAY APPROXIMATES TO LEAD THE FLOW OF VEHICULAR TRAFFIC INTO A SINGLE LANE WHETHER IN AN IND. TWO LANES ALLOWS DURING THE PEAK HOUR. IN THE MORNING, SIMILARLY, THE CHANNELIZATION OF THE TRAFFIC SHALL BE ACCOMPLISHED IN THE REVERSE DIRECTION DURING THE PEAK HOURS IN THE EVENING. MOREOVER, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE ALM. IF PLACEMENT DURING THE ABOVE-NOTED PEAK INTERVALS TO INSURE A CONTINUOUS AND UNINTERRUPTED SAFE FLOW OF TRAFFIC. PLACEMENT OF DIRECT TRAFFIC ALM. NEEDED SHALL PROMPTLY RESTORE OR REPOSITION ANY TRAFFIC DEVICES WHICH MAY BE KNOWN DOWN OR DISPLACED BY CARELESS MOTORISTS. THE USEFUL RANGE OF THE ALM. DURING WHICH THE PLACEMENT SHALL BE EFFECTED SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR'S ATTENTION IS SPECIALLY DIRECTED TO THE PROVISIONS OF PARAGRAPH 214.5 OF THE CONTRACT, AND MATERIAL SPECIFICATIONS RELATIVE TO TRAFFIC CONTROL WITH PARTICULAR ATTENTION TO LIGHTING AND REFLECTIVIZATION OF BARRICADES, TRAFFIC DEVICES, EQUIPMENT AND MATERIALS STORED ON THE STRUCTURE BETWEEN THE HOURS OF SUNSET AND SUNRISE.

THE COST OF MAINTAINING TRAFFIC, INCLUDING PROVISION OF LIGHTS, SIGNS, BARRICADES, WATCHMEN AND FLASHERS, SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "ITEM 4 - MAINTAINING TRAFFIC".

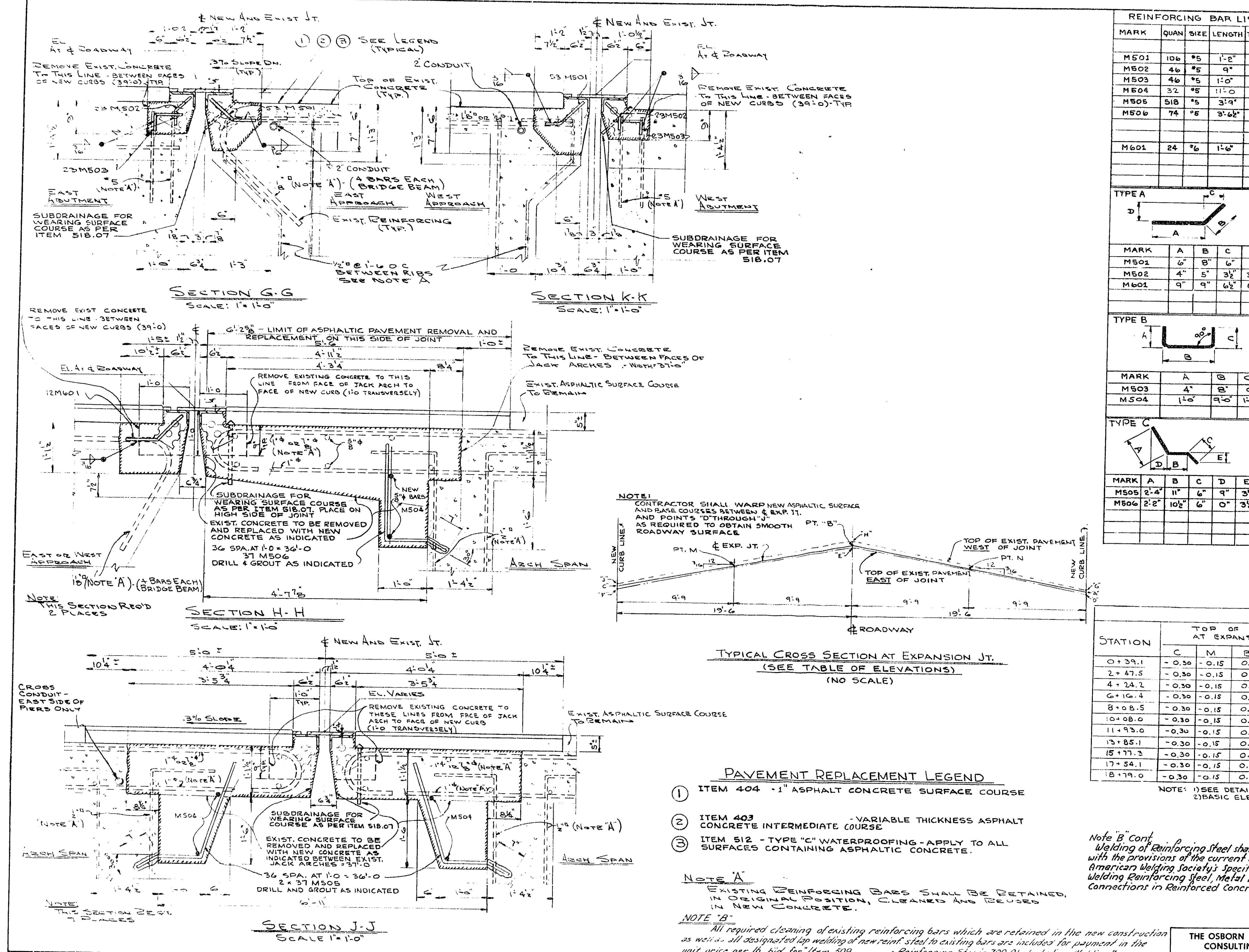
SPECIFICATION - ITEM SPECIAL - PATCHING CONCRETE SIDEWALKS USING EPOXY MORTAR

1. DESCRIPTION. THIS ITEM CONSISTS OF THE REMOVAL OF ALL LOOSE AND DISINTEGRATED CONCRETE, THE PREPARATION OF THE SURFACE, APPLICATION OF AN EPOXY RESIN TACK COAT, THE FURNISHING OF THE EPOXY MATERIAL AND SAND, AND THE MIXING, PLACING AND FINISHING OF THE EPOXY MORTAR PATCHES.
2. EXAMINATION OF PLANS, SPECIFICATIONS, SITE. THE RIDDER SHALL EXAMINE THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH THE MATERIALS SPECIFIED AND THEIR HANDLING CHARACTERISTICS.
3. MATERIALS.
 - (A) EPOXY RESIN. SHALL BE A POLYAMIDE-CURED TYPE MEETING THE REQUIREMENTS OF THE INTERIM GUIDE SPECIFICATIONS FOR EPOXY RESIN SYSTEMS - AASHO DESIGNATION: M-200-63 I-TYPE R. IT SHALL BE FURNISHED IN TWO COMPONENTS FOR COMBINING IMMEDIATELY PRIOR TO USE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS OF THE MANUFACTURER.
 - (B) SAND. THE SAND FOR EPOXY MORTAR SHALL BE A SILICA SAND, PREDOMINANTLY ROUND PARTICLES, 100% PASSING THE NO. 16 SIEVE AND NOT MORE THAN 5% PASSING THE NO. 100 SIEVE. IT SHALL BE CLEAN, SURFACE DRY AND INERT. (WILL NOT AFFECT CURE RATE OR PHYSICAL PROPERTIES OF THE EPOXY RESIN).
4. QUALIFICATION OF MATERIALS.
 - (A) ALL MATERIALS SHALL BE APPROVED BY THE COUNTY ENGINEER'S TESTING LABORATORY.
 - (B) WITHIN 10 DAYS AFTER THE AWARDING OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE COUNTY ENGINEER'S TESTING LABORATORY A CERTIFIED TEST REPORT FROM THE MANUFACTURER OR AN APPROVED INDEPENDENT TESTING LABORATORY WHICH ESTABLISHES THAT THE EPOXY RESIN SYSTEM MEETS THE REQUIREMENTS OF SECTION 3 (A) OF THESE SPECIFICATIONS.
5. REMOVAL OF DISINTEGRATED CONCRETE. ALL LOOSE AND DISINTEGRATED CONCRETE SHALL BE REMOVED FROM THE AREAS TO BE REPAIRED IN SUCH A MANNER AND TO SUCH AN EXTENT AS TO EXPOSE A SOUND CONCRETE SURFACE. THE WORK SHALL BE DONE IN SUCH A MANNER AS NOT TO DAMAGE THE CONCRETE THAT IS TO REMAIN.
6. PREPARATION OF SURFACE. AFTER ALL DISINTEGRATED AND LOOSE CONCRETE HAS BEEN REMOVED, THE SURFACE SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST, GREASE, OIL, OR OTHER FOREIGN MATERIALS BY THE USE OF WATER AND/OR AIR UNDER PRESSURE AND SUCH OTHER METHODS AS ARE NECESSARY TO SECURE SATISFACTORY RESULTS. EXPOSED STEEL SHALL BE WIRE BRUSHED TO REMOVE ALL LOOSE RUST.
7. MIXING AND APPLICATIONS.
 - (A) UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WORK SHALL PROCEED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS 40° F. OR ABOVE. THE SURFACE SHALL BE DRY BEFORE THE EPOXY RESIN IS APPLIED.
 - (B) THE PROPORTIONS OF THE POLYAMIDE CURING COMPOUND AND THE EPOXY RESIN SHALL BE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS OF THE MANUFACTURER.
 - (C) THE EPOXY MORTAR SHALL CONSIST OF 1 PART EPOXY LIQUID (EPOXY RESIN AND POLYAMIDE CURING COMPOUND) TO NOT MORE THAN 40 PARTS SAND (BY VOL ME).
 - (D) THE TIME OF MIXING AND SIZE OF PATCH SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EPOXY RESIN.
 - (E) TACK COAT. A TACK COAT USING THE CLEAR OR LIGHT COLOR POLYAMIDE-CURED EPOXY RESIN MEETING THE REQUIREMENTS OF AASHO DESIGNATION: M-200-63 I-TYPE R SHALL BE APPLIED TO THE CONCRETE SURFACE IMMEDIATELY PRIOR TO PLACING THE EPOXY MORTAR. THE EPOXY MORTAR SHALL BE APPLIED WHILE THE TACK COAT IS STILL LIQUID. IF THE EPOXY RESIN TACK COAT HAS REACTED SUFFICIENTLY TO GO OUT OF ITS LIQUID STATE, AN ADDITIONAL APPLICATION OF THE EPOXY RESIN SHALL BE MADE TO INSURE GOOD BOND.
 - (F) THE EPOXY MORTAR MAY BE APPLIED BY TROWEL OR SPONGE, APPROPRIATE TO GRADE AND FINISHED BY SCREEDING, FLOATING OR TROWELLING AS DIRECTED BY THE MANUFACTURER OR SUPPLIER OF THE EPOXY MATERIAL.
 - (G) THE AREAS TO BE PATCHED SHALL BE AS DIRECTED BY THE ENGINEER.
8. HANDLING PRECAUTIONS. EPOXY COMPOUNDS ARE TOXIC AND MUST BE HANDLED WITH CARE TO PREVENT SKIN IRRITATION, SUCH AS BURNS, RASHES, ITCHES, ETC. THE CONTRACTOR SHOULD FOLLOW THE INSTRUCTIONS OF THE MANUFACTURER TO PREVENT SUCH A CONDITION.
9. METHOD OF MEASUREMENT. THE QUANTITY TO BE PAID FOR SHALL BE THE ACTUAL AREA IN SQUARE FEET OF THE EXPOSED SURFACES OF ALL COMPLETED PATCHES, IRRESPECTIVE OF THE DEPTH OR THICKNESS OF THE PATCH.
10. BASIS OF PAYMENT. THE NUMBER OF SQUARE FEET "MEASURED AS PROVIDED UNDER 'METHOD OF MEASUREMENT'" SHALL BE PAID AT THE UNIT PRICE BID, WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR REMOVING DISINTEGRATED CONCRETE, PREPARING THE SURFACE AS SPECIFIED HEREIN, APPLICATION OF THE EPOXY RESIN TACK COAT, FURNISHING, MIXING AND PLACING ALL MATERIALS NECESSARY TO COMPLETE THIS WORK.

BONDING NEW CONCRETE TO OLD USING AN EPOXY RESIN ADHESIVE

1. REMOVAL OF DISINTEGRATED CONCRETE. ALL LOOSE AND DISINTEGRATED CONCRETE SHALL BE REMOVED FROM THE AREAS TO BE REPAIRED IN SUCH A MANNER AND TO SUCH AN EXTENT AS TO EXPOSE A SOUND CONCRETE SURFACE. THE WORK SHALL BE DONE IN SUCH A MANNER AS NOT TO DAMAGE THE CONCRETE THAT IS TO REMAIN.
2. PREPARATION OF SURFACE. AFTER ALL DISINTEGRATED AND LOOSE CONCRETE HAS BEEN REMOVED, THE SURFACE SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST, GREASE, OIL, OR OTHER FOREIGN MATERIALS BY THE USE OF WATER AND/OR AIR UNDER PRESSURE AND SUCH OTHER METHODS AS ARE NECESSARY TO SECURE SATISFACTORY RESULTS. EXPOSED STEEL SHALL BE WIRE BRUSHED TO REMOVE ALL LOOSE RUST.
3. EPOXY ADHESIVE. SHALL BE A POLYAMIDE-CURED TYPE MEETING THE REQUIREMENTS OF THE INTERIM GUIDE SPECIFICATIONS FOR EPOXY RESIN SYSTEMS - AASHO DESIGNATION: M-200-63 I-TYPE R, EXCEPT THAT IT SHALL BE FORMULATED TO MINIMIZE SOADOM AND PUMICE IN VERTICAL SURFACES. IT SHALL BE FURNISHED IN TWO COMPONENTS FOR COMBINING IMMEDIATELY PRIOR TO USE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS OF THE MANUFACTURER.
4. QUALIFICATION OF THE EPOXY RESIN SYSTEM. WITHIN 10 DAYS AFTER THE AWARDING OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE COUNTY ENGINEER'S TESTING LABORATORY A CERTIFIED TEST REPORT FROM THE MANUFACTURER OR AN APPROVED INDEPENDENT TESTING LABORATORY WHICH ESTABLISHES THAT THE EPOXY RESIN SYSTEM MEETS THE REQUIREMENTS OF SECTION 3 OF THESE SPECIFICATIONS.
5. APPLICATION.
 - (A) UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE EPOXY RESIN SHALL BE APPLIED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS 40° F. OR ABOVE. THE SURFACE SHALL BE DRY BEFORE THE EPOXY RESIN IS APPLIED.
 - (B) THE PROPORTIONS OF THE EPOXY RESIN AND THE POLYAMIDE CURING COMPOUND SHALL BE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS OF THE MANUFACTURER.
 - (C) THE EPOXY RESIN SHALL BE APPLIED BY SPONGE OR SPONGE. IF THE EPOXY RESIN IS ROUGH OR IRREGULAR, THE RESIN SHOULD BE FURNISHED IN WELL TO 100% AIR BUBBLES.
 - (D) THE PLASTIC PORTLAND CEMENT CONCRETE SHALL BE PLACED WHILE THE EPOXY RESIN IS STILL LIQUID. IF THE EPOXY RESIN HAS REACTED SUFFICIENTLY TO GO OUT OF ITS LIQUID STATE, AN ADDITIONAL APPLICATION OF THE EPOXY RESIN SHALL BE MADE TO INSURE GOOD BOND.

6. HANDLING PRECAUTIONS. EPOXY COMPOUNDS ARE TOXIC AND MUST BE HANDLED WITH CARE TO PREVENT SKIN IRRITATION, SUCH AS BURNS, RASHES, ITCHES, ETC. THE CONTRACTOR SHOULD FOLLOW THE INSTRUCTIONS OF THE MANUFACTURER TO PREVENT SUCH A CONDITION.



FED PD DIVISION	STATE	PROJECT
2	OHIO	
		CUYAHOGA COUNTY GUY - 17-5.82
ESTIMATED QUANTITIES		

STATE HIGHWAY BRIDGE NO CUY-17-0
BROOKPARK ROAD
RIVER EDGE TOWNSHIP
CITY OF FAIRVIEW PARK
BRIDGE OVER ROCKY RIVER
DECK REPAIRS
REPORT NO. 6924

NO. B-191
SCALE - AS NOTED - DATE 3-23-66
DRAWN BY RMN CHECKED BY S.H. REVISED

Note "B" Cont.
Welding of Reinforcing Steel shall be in accordance with the provisions of the current edition of the American Welding Society's Specification, AWS D12.1. Welding Reinforcing Steel, Metal Inserts and Connections in Reinforced Concrete Construction.

**THE OSBORN ENGINEERING CO.
CONSULTING ENGINEERS
CLEVELAND, OHIO**