Trees (1), Stumps A, (to be removed) XX

Utility Poles: Telephone $\overline{\phi}$, Power $\overline{\phi}$, Light ϕ .

MICROFILMED OCT 23 1984

CONVENTIONAL SIGNS

INDEX OF SHEETS

General Notes & Summary____2

Site Plan_______3

General Plan of Structure ______4

Alternate Structure_____4A

Limited Access (only) -

Existing Right of Way ————————

Limited Access & Right of Way——LA&RW—

Property Line — PL (in existing fence)-x—PL-x—

Railroad ———— or +++++

Guardrail (existing) - - (proposed) - -

Right of Way (only) —

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAS-149-(1.20) HARRISON COUNTY BRIDGE NO. HAS-149-0120 ATHENS TOWNSHIP

	ОНЮ	
	FHWA REGION 5	4
SR- 1208 (3)	FEDERAL PROJECT	
	**	

BR-5-83

CULVERT REPLACEMENT

SPECIFICATIONS

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

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be set forth on the plan.

^ະNew∬Athens LOCATION MAP

LINE DATA

BEGIN WORK - STA 70+73 END WORK - STA 72+65 NET LENGTH OF WORK = 192 Lin. Ft. = 0.04 Mi. PROJECT LENGTH = 0.00 ft. = 0.00 Mi.

UNDERGROUND UTILITIES
48 HOURS
BEFORE YOU DIG
Call800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

Portion to be improved State & Federal Routes Other Roads		
	SCALES	
PlanHorizontal		
Cross Section: Horizontal	,Vertice	al ====================================

SCALE IN MILES

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		6-3-78	955		
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SUPPLEMENTAL SPECIFICATIONS

SApproved Pole	at 3 Solon 10.1	/ S
Date <u>2-8-83</u> Er	for Sureque of Brid tructural Design	iges and
Approved	ames R. Jongenee hief Engineer, Opera	len
*Date_3/11/83 (CI	hief Engineer, Opera	tions

Vobet M. Short

Date 12-20-82 District Deputy Director of Transportation

Date 3-14-83 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION ISTRATION

DIVISION ADMINISTRATOR

•	FEDERAL	
APPROVED:	ROVED:	en e
		we consider

Plan	Prepai	red	Bv:
1 (4)	···	-	-

Project:	
Date of Letting	19, Contract No
LD 0300 Rev. 1-1-81	

SEAL

6-1-65

2-5-82 2-5-82 2-5-82

2-5-82

4-1-80 6-1-73

7-26-76

DBR-2-73 4-10-73

GR-2B

GR-4A

HW-4A

12-6-76 2-5-82

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

DATE

HAS-149-(1.20)

PLAN NO. BR-5-83

ESTIMATED QUANTITIES:

Specific location and usage of the estimated quantities set up on this plan to be used "As directed by the Engineer" shall be made a matter of record by incorporation into the Final Change Order governing completion of this project. Estimated quantities of materials shall not be ordered for delivery to the project unless authorized by the Engineer.

FIELD OFFICE:

The Contractor shall provide a suitable field office having a minimum of 150 sq. ft. of floor space and in addition to the requirements of Item 619, he shall provide and maintain sanitary provisions as per 107.06. All of the above is included in the lump sum price bid for Item 624 – Mobilization, as per plan.

UTILITIES:

All expense involved in relocating any affected utilities shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging any work in a manner that inconvenience to either will be held to a minimum. Following are Owners known to be within the work limits:

Ohio Power Company
301 Cleveland Avenue S.W.
P.O. Box 400
Canton, Ohio 44701
Phone (216) 456-8173

General Telephone Company of Ohio 921 Steubenville Avenue Cambridge, Ohio 43725 Phone (614) 432-5549

Village of New Athens
City Building
Water Department
New Athens, Ohio 43981
Attn. Tom Henderson
Phone: (614) 968-6181

Columbia Gas of Ohio, Inc. 99 North Front Street Columbus, Ohio 43215 Phone: (614) 460-2400

ITEM 202 - GUARDRAIL REMOVED :

All guardrail and posts that are removed shall become property of the State and shall be neatly stacked on State right of way to be removed by State forces.

ITEM 601-ROCK CHANNEL PROTECTION WITH FILTER:

Where this item is called for on the plans, the quantities shown are based on the dimensions of the rock only and do not include the volume of a 6" stone filter bed. The cost of the filter (either fabric or stone) shall be included in the unit price bid for Item 601-Rock Channel Protection with Filter.

Where the fabric filter option is used the fabric shall meet the requirements of Supplemental Specification 939 Type B.

The surface to receive the fabric shall be prepared to a relatively smooth surface free of obstruction and and debris. The fabric shall be placed with the long dimension parallel to the direction of flow and shall be laid loosely but without wrinkles and no creases. Where joints are necessary, strips shall be placed to provide a 12" minimum overlap with the upstream strip overlapping the downstream strip. Securing pins with washers shall be placed at 2' minimum intervals along joints and at (2', 3', or 5')* intervals elsewhere to prevent slippage of the fabric. The securing pins shall be 3/16" diameter of steel pointed at one end and fabricated with a head to retain a steel washer having an outside diameter not less than 1-1/2". Pin lengths shall be greater than or equal to 18".

* 2' for flow direction slopes steeper than 3:1,3' for slopes 3:1 to 4:1, and 5' for slopes less steep than 4:1

UTILITIES NOTIFICATION:

The locations of the underground utilities shown on the plans are as obtained from the Owners of the utility as required by Section 153.64 O.R.C. The Contractor shall notify the Owner of the underground utility facility who shall within forty-eight hours, excluding Saturdays, Sundays, and Legal Holidays, after notice is received, stake, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they were installed. The marking or locating shall be coordinated to stay approximately two days ahead of the planned construction.

		GENERA	AL SUMMARY OF QUANTITIES
ITEM	TOTAL	UNIT	DESCRIPTION
202	LUMP	SUM	Structur e removed, as per plan
202	300	Lin.Ft.	Guardrail removed
203	LUMP	∵SUM:	Excavation, including embankment construction, as per plan
es e la companya de l	#		The property of the second of
Marine gran			
310	10,	Cu. Yds.	Subbase
451	60	Sq.Yds.	Reinforced portland cement concrete pavement (9" thick)
517	37.5	Lin.Ft.	Railing – Deep beam w/tubular backup, as per plan
601	7.88	Cu. Yds.	Rock channel protection, Type B with filter, 30" thick
602	12	Cu. Yds.	Concrete masonry
603	50	Lin. Ft.	11'-5"x 7'-3" Conduit (707.03) Type A, as per plan, or
			10'x7' Precast reinforced concrete box section (as per SS 955
And the second s		₹ A	C850 Table 2 , as per plan
606	187.5	Lin. Ft.	Guardrail, Type 5
606	4	Each	Bridge terminal assembly, Type B
606	3	Each	Anchor assembly , T <u>y</u> pe A
606	l	Each	Anchor assembly, Type T
614	LUMP	SUM	Maintaining traffic
623	LUMP	SUM	Construction layout stakes
624	LUMP	SUM	Mobilization, as per plan
659	100	Sq. Yds.	Seeding and mulching
659	0.045	Tons	Commercial fertilizer
659	0.01	Tons	Agricultural liming
603	50	Lin.Ft.	12" Conduit, Type F
203	225	Lin.Ft.	Reshaping berms
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STATE OF OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF MAINTENANCE

GENERAL NOTES & SUMMARY
BRIDGE NO. HAS-149-0120
OVER CAMPBELL'S RUN

DESIGNED DRAWN TRACED CHECKED REVIEWED DATE F

WORK REQUIRED:

I. Remove existing structure, as per plan.

2. Install structural plate corrugated steel arch, as per plan.

3. Build headwalls.

4. Install 12" conduit, as per plan.

5. Backfill around arch.

6. Perform excavation and embankment work.

7. Build concrete pavement to match existing.

8. Install guardrail, as per plan.

9. Clean up and seed

DESIGN DATA :

Design loading-HS-20-44

Concrete - Class C - Unit stress 1333 p.s.i.

STRUCTURES REMOVED. AS PER PLAN:

This item shall include the removal of the superstructure, entire rear abutment and wingwalls, portions of the forward abutment and wingwalls as per 202.03, bituminous pavement, 12" v.s.p., and other materials necessary to complete the work as directed by the Engineer. The Contractor shall saw cut the pavement at Sta.71+70 and Sta. 72+0. Waste masonry shall be used as directed by the Engineer. Payment for the above shall be included in the unit price bid for Item 202, Structures removed, as per plan.

ITEM 603-11'-5"x 7'-3" CONDUIT (707.03) TYPE A OR 10'x7' P.R.C. SECTIONS (as per S.S. 955, C850 TABLE 2) as per plan:

The assembly shall be as recommended by the manufacturer. The backfill material shall be brought up uniformly on both sides of the conduit to within 15"± of finished grade. Heavy compaction equipment or methods that produce horizontal or vertical earth pressures which cause excessive distortion or damage to the structure shall not be used. Class B bedding shall be placed six (6) inches below the bottom of the arch. Payment for excavating, furnishing and placing the conduit and class B bedding shall be included in the unit price bid for Item 603 – 11'+5"x 7'+3" Conduit (707.03) Type A or 10'x7' P.R. Concrete sections, as per plan.

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ITEM 451 - REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT:

Due to the short length of pavement, no transverse joints of any type will be required. The new concrete pavement may be poured without forming against existing pavement. The grade of the new pavement shall match existing pavement. Pavement width shall be 18'-0" radial. Begin pavement at Sta. 71+70 and end at Sta. 72+00.

ITEM SPECIAL - RESHAPING BERMS:

Berms at locations where guardrail is removed or new guardrail is erected shall be reshaped as directed by the Engineer to assure a smooth surface free of irregularities. Excess excavation shall be disposed as directed by the Engineer. Payment shall be included in the contract bid price per lineal foot for Item Special - Reshaping berms.

ITEM 603 - 12" CONDUIT, TYPE F - 50'LONG:

Conduit shall be galvanized steel and shall be placed as follows:

50.	ELEVATION	STATION			
INLET	1090.0	71+29	27' LEFT	•	
OUTLET	1083.5	71+82	29' LEFT		
and the second of the second o	s light ikinap.			to be removed as	diegrad is ba

MAINTAINING TRAFFIC

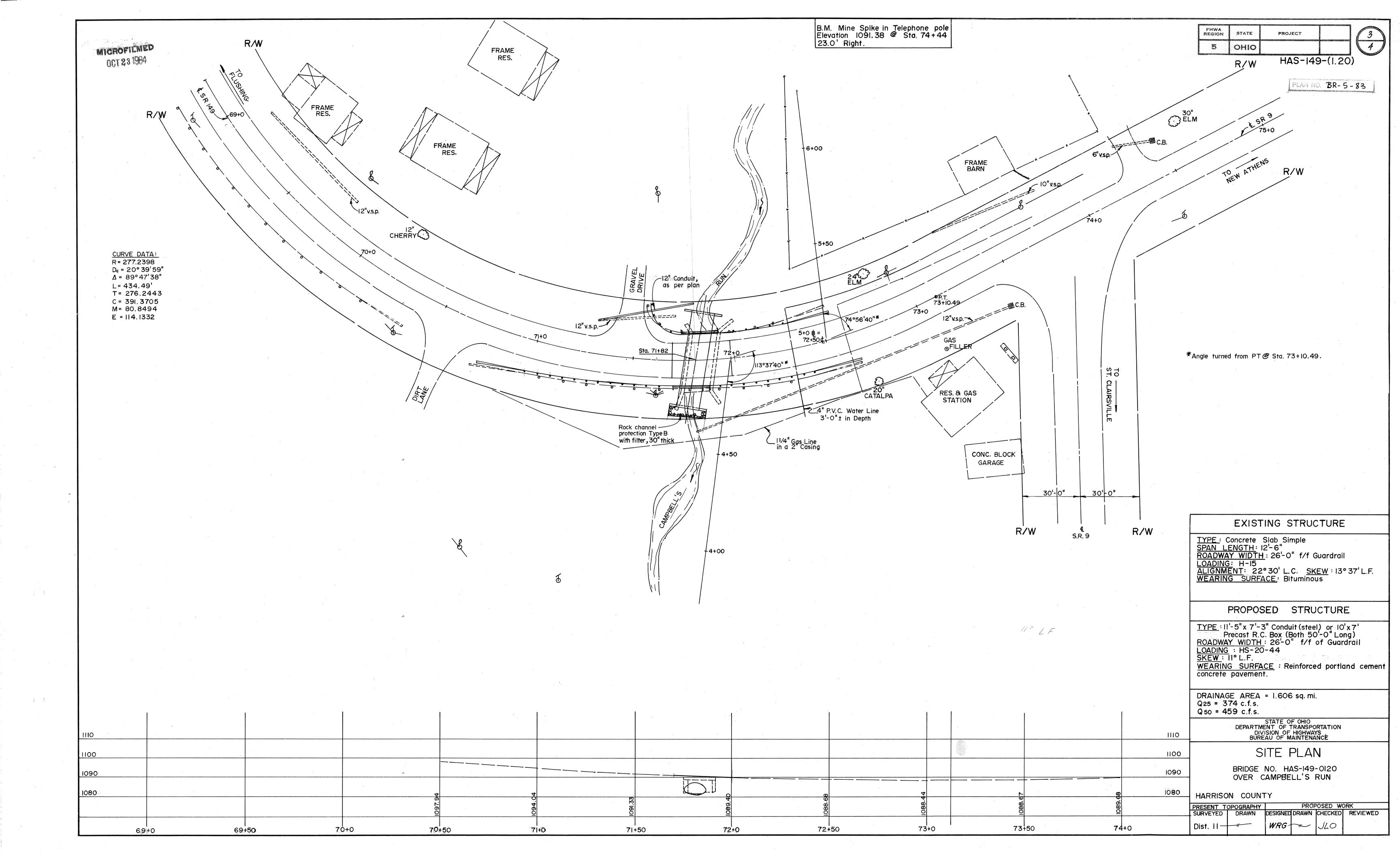
When no longer needed to maintain traffic the existing structure shall be removed, as per plan. The road can be closed to traffic for a period not to exceed 30 calender days.

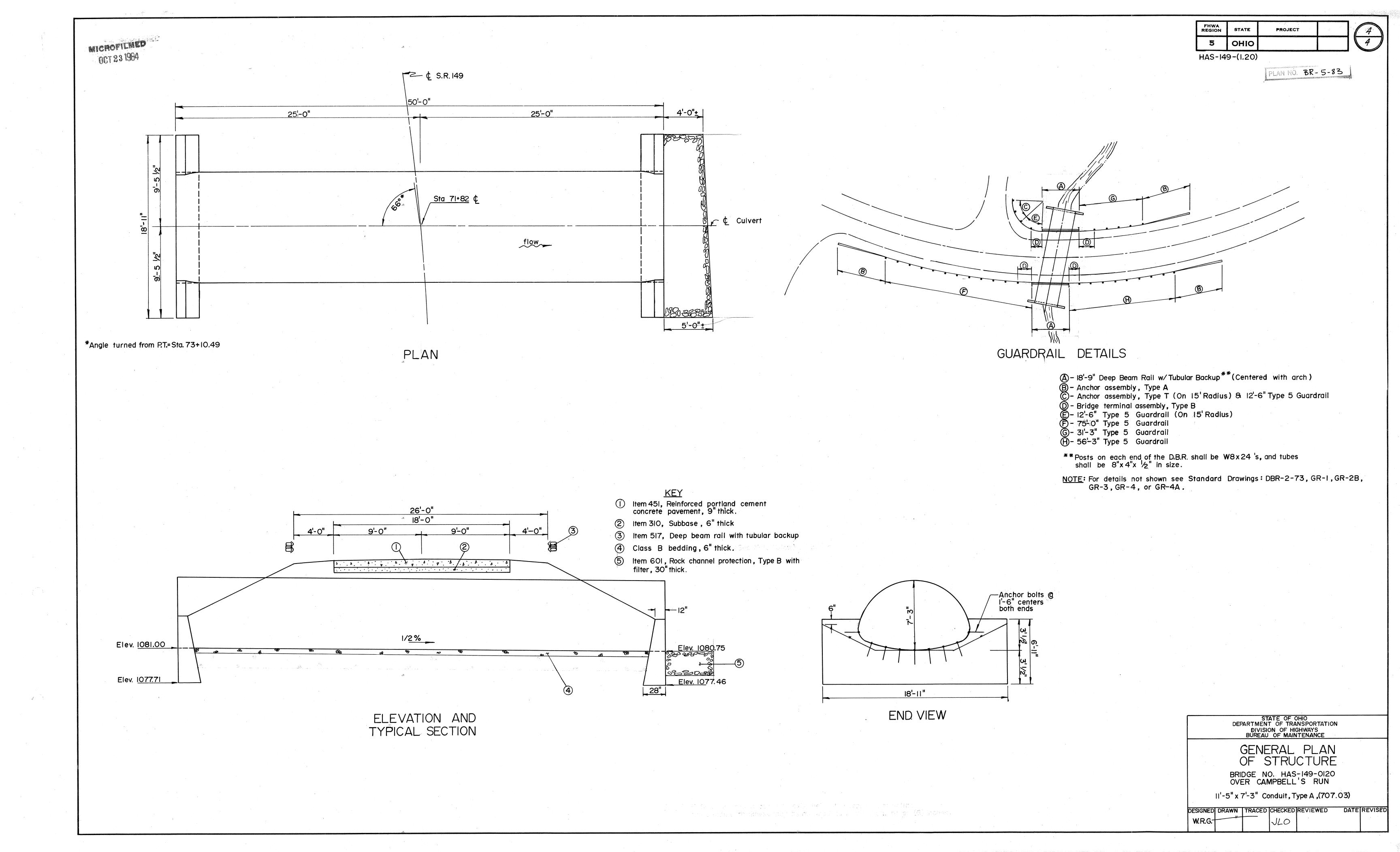
LOCATION OF GUARDRAIL:

The location of guardrail run as shown on this plan are subject to adjustment by the Engineer to assure that the planned installation will afford maximum protection for traffic.

EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION. AS PER PLAN:

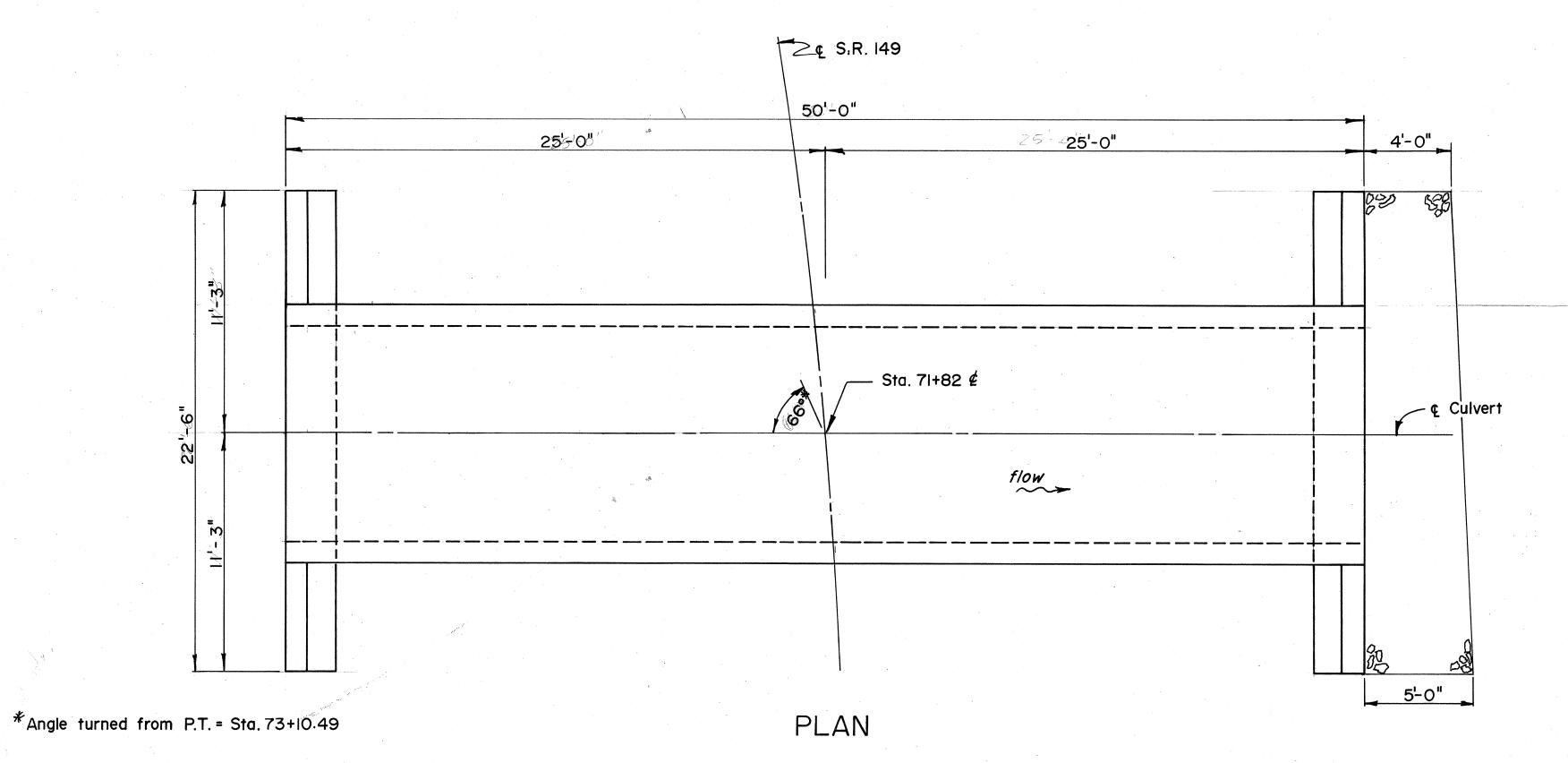
This item shall cover any additional fill material needed to fill between the arch and the forward abutment of the existing structure. It also covers excavation and embankment work on each end of the arch as per plan and directed by the Engineer.





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FHWA REGION	STATE	946	PRO.	JECT		(4)
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HAS-149-(01.20)



OCL 39, 1884 MICKOLIEMED

Anchor bolts @ 1'-6" centers (See note below) **

6" 6"

(Typical for both ends)

10'x7' Precast reinforced concrete box sections as per Supplemental Specification 955 C850 Table 2, as per plan.

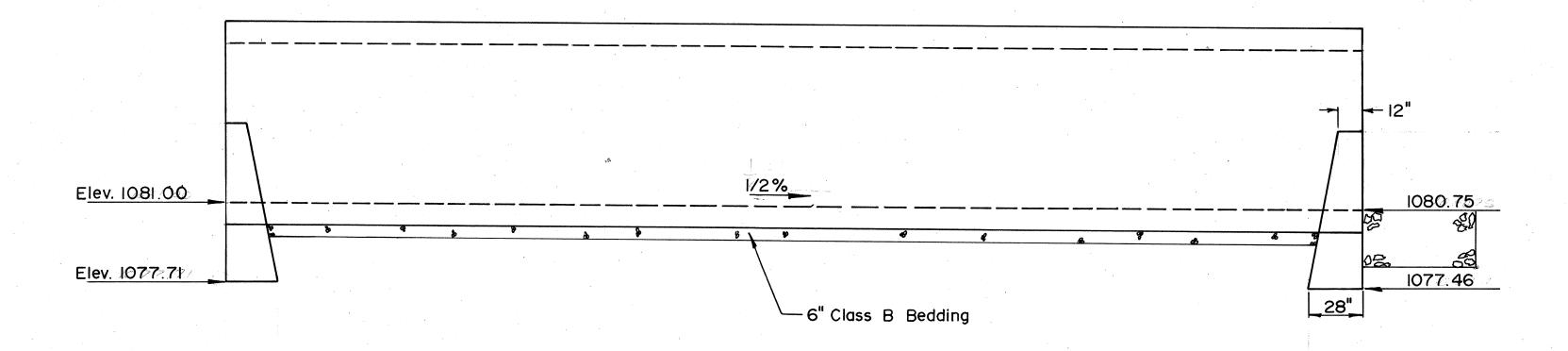
**Anchor bolts are typical as per Std. Dwg. HW-4A, except that bolts need not be galvanized and, instead of the nuts, the bolts shall be connected with anchor inserts cast into the end sections. All costs to be included in Item 603-10'x7' Precast reinforced concrete box sections.

If concrete box sections are used there will be an additional 1.4 Cu.Yds. of masonry concrete needed for the headwalls and an additional 1.5 Cu.Yds. of 601 rock channel protection, both of which will be included in the cost of Item 603-10'x7' P.R.C. box sections.

IOTE:

For typical section and other details not shown see sheet 4 of 4.

1'-0"



ELEVATION

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BUREAU OF MAINTENANCE

ALTERNATE STRUCTURE

BRIDGE NO. HAS-149-0120
OVER CAMPBELL'S RUN
10'x7' Precast Reinforced
Concrete Box Sections

DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED