

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H. I. F.	1950

MIAMI COUNTY
MIA.70 (17.20) (18.26)

MIA-70~(17.20)~(18.26)

MIAMI COUNTY
ELIZABETH TOWNSHIP

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CONVENTIONAL SIGNS

COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
CORPORATION LINE	-----
PROPERTY LINE	-----
FENCE LINE	-----
CENTER LINE	-----
POLE LINE	-----
RAILROAD	-----
HEDGE	-----
DRAIN PIPE (NEW)	-----
DRAIN PIPE (OLD)	-----
GUARD RAIL (NEW)	-----
GUARD RAIL (OLD)	-----
TREES AND STUMPS	-----

LINE DATA

Begin Project (Part 1)	STA. 908+00	
End Project (Part 1)	STA. 914+65	
No ADDITIONS or DEDUCTIONS		
TOTAL (Part 1)		= 665 Lin. Ft.
Begin Project (Part 2)	STA. 964+00	
End Project (Part 2)	STA. 968+50	
No ADDITIONS or DEDUCTIONS		
TOTAL (Part 2)		= 450 Lin. Ft.
NET LENGTH OF PROJECT		= 1115 Lin. Ft. = 0.211 MILES
Begin Work (Part 1)	STA. 907+00	
End Work (Part 1)	STA. 915+00	
No ADDITIONS or DEDUCTIONS		
TOTAL (Part 1)		= 800 Lin. Ft.
Begin Work (Part 2)	STA. 963+80	
End Work (Part 2)	STA. 971+00	
No ADDITIONS or DEDUCTIONS		
TOTAL (Part 2)		= 720 Lin. Ft.
NET LENGTH OF WORK		= 1520 Lin. Ft. = 0.288 MILES



LOCATION PLAN

SCALE 1" = 1 MILE
PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

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 necessary 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 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
DATE 5-4-50 DIVISION DEPUTY DIRECTOR

APPROVED
DATE CHIEF ENGINEER, BUREAU OF MAINTENANCE

APPROVED
DATE 5-26-50 CHIEF ENGINEER, BUREAU OF BRIDGES & R.R. CROSSINGS

APPROVED
DATE 6-9-50 CHIEF ENGINEER, BUREAU OF LOCATION & DESIGN

APPROVED
DATE 6-9-50 FIRST ASSISTANT DIRECTOR & CHIEF ENGINEER

APPROVED
DATE 6-9-50 DIRECTOR OF HIGHWAYS

SUPPLEMENTAL SPECIFICATIONS	
NO.	DATE
T-110	Rev. 8-3-36
S-303	12-20-40

STANDARD	CONSTRUCTION	DRAWINGS
SSB-1-47	7-27-49	I-1,2,3,4,5
T-8-C.B. No. 7	5-1-47	I-15 No. 1
S.B-1-47	1-20-48	I-15 No. 2
L-3	4-1-50	I-14 G
G-807	2-1-50	2-1-47
L-3-A	4-1-50	

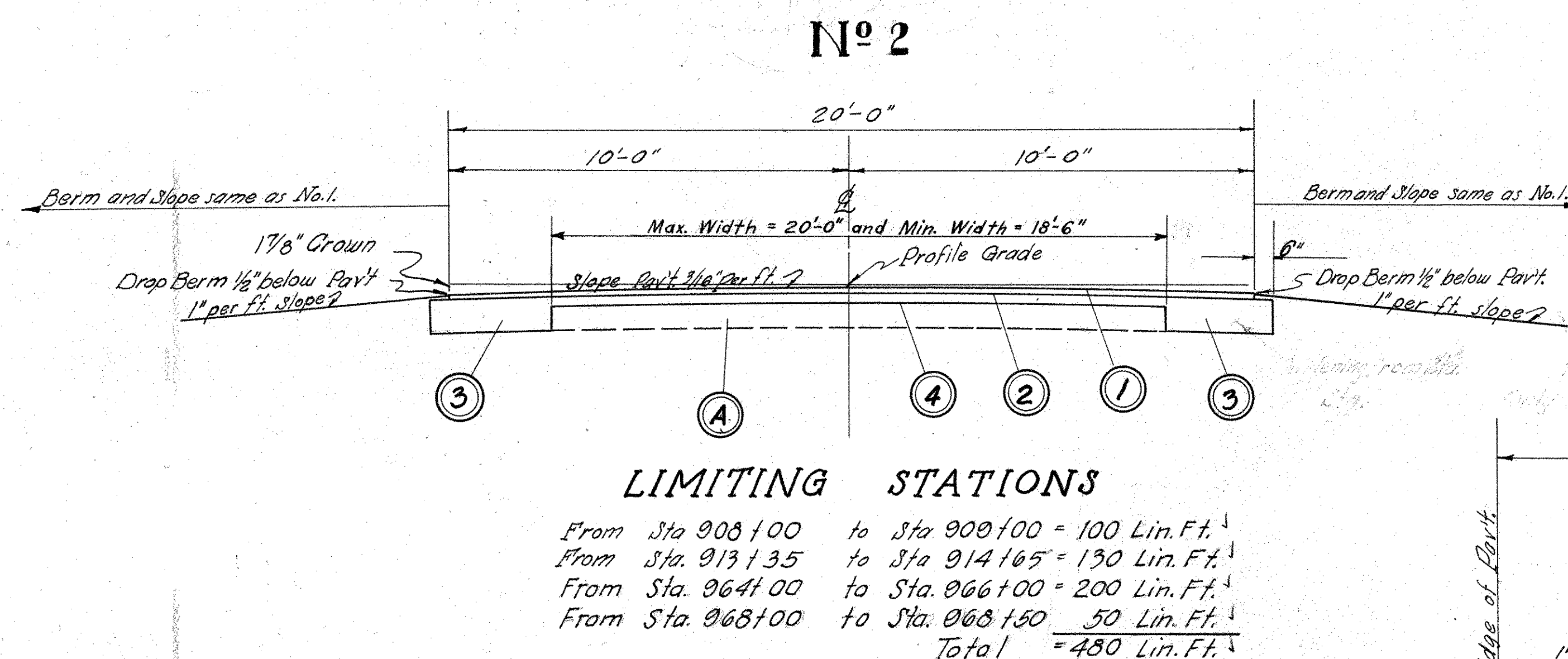
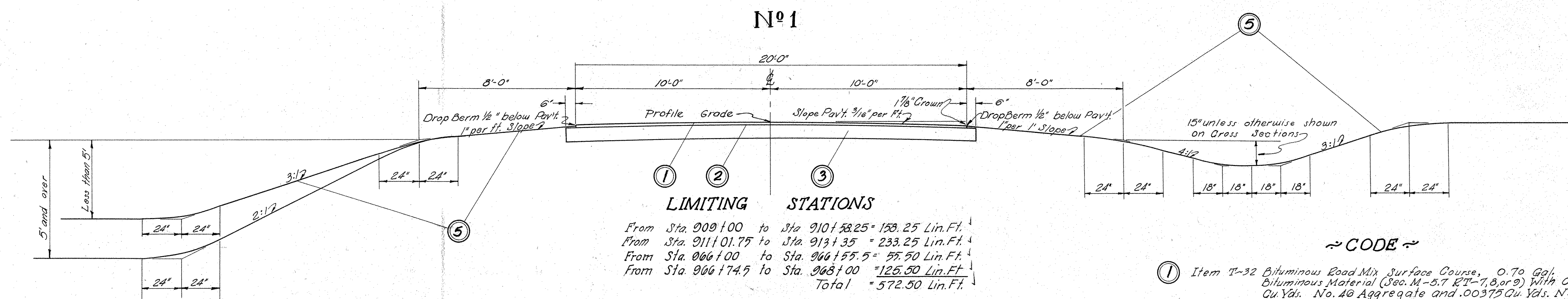
CONSTRUCTION
BUREAU
JUN 15 1956
GROUND PHOTOLAB

FILE NUMBER	MIAMI COUNTY MIA. 70~(17.20)~(18.26)
DATE OF LETTING CONTRACT	NO. _____

TYPICAL SECTION

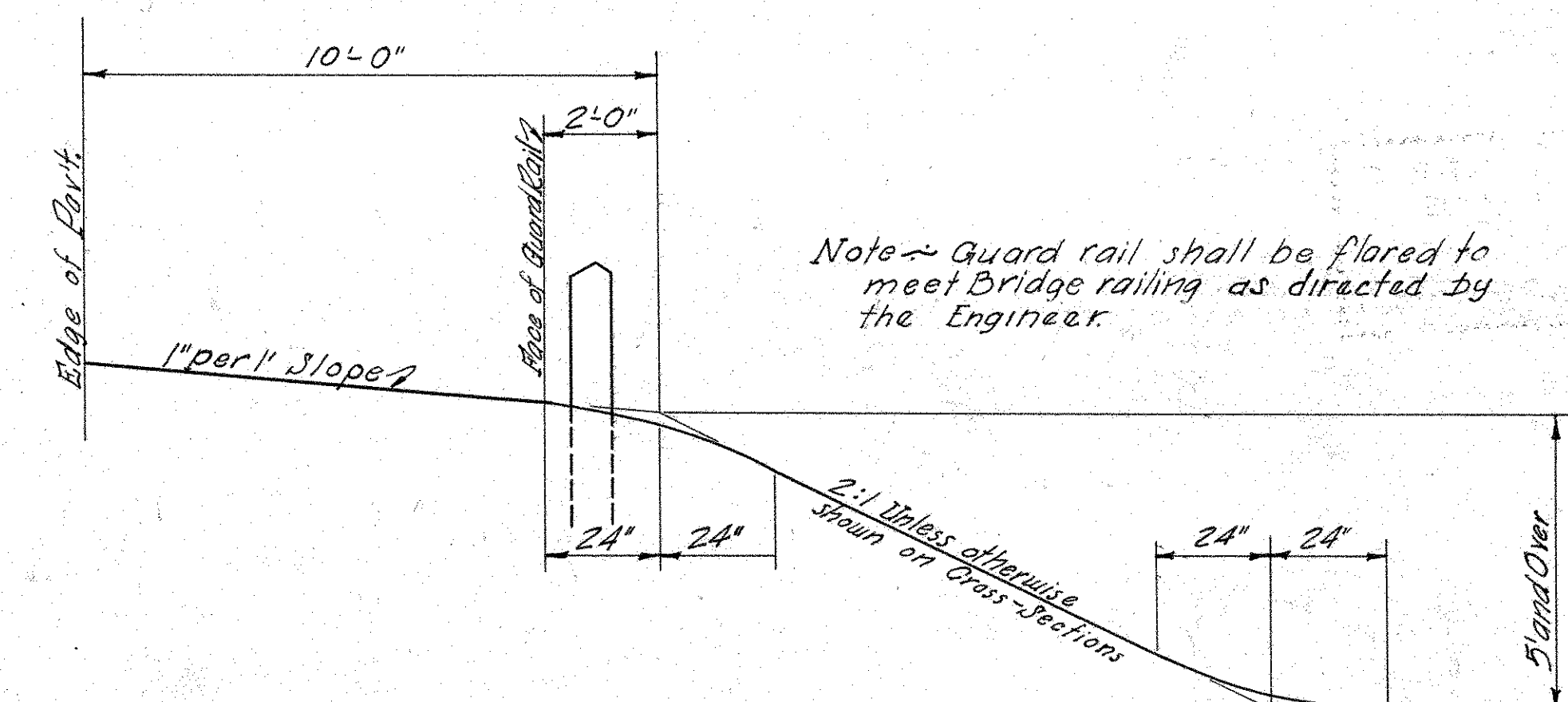
T-32 ON B-11 BASE

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



~ CODE ~

- ① Item T-32 Bituminous Road Mix Surface Course, 0.70 Gal. Bituminous Material (Sec. M-5.7 RT-7, 8, or 9) With 0.0375 Cu Yds. No. 40 Aggregate and 0.0375 Cu Yds. No. 20 choke aggregate per Sq. Yd. Seal Coat 0.25 Gal. Bituminous Material (Sec. M-5.7 RT-7, 8, or 9) and 0.0075 Cu Yds. No. 6 Aggregate per Sq. Yds. - Method A, B, or C.
- ② Item T-30 Bituminous Prime Coat (Sec. M-5.7 RT-2, or 3 at 0.25 Gal. per Sq. Yd.
- ③ Item B-11 8" Stabilized Base Course without Chemical Admixtures. Material to be placed in two 4" Compacted layers Type "B" Composition.
- ⑤ Item L-2 Seeding & Protecting Type "A."
- ④ Item B-11 0" to 8" Variable depth Stabilized Base Course without chemical admixtures. Material to be placed in layers not to exceed 4" compacted thickness. Type "B" Composition.
- Ⓐ Existing Traffic Bound Surface Treated Pavement.



TYPICAL GUARD RAIL SECTION
(To be used where guard rail is shown on plans)

GENERAL NOTES & DETAILS

TRAFFIC ~ Traffic shall be maintained at all times except as permitted by Sec. 5-15.02 of Construction and Materials Specification. Payment for all labor, material, (Except Item T-110 Traffic Compacted Surface Course & Item M-10 Calcium Chloride) and use of equipment for maintaining traffic in accordance with specifications except that part included within the limits of Item 5-15, Temporary Run-around Road and bridges shall be included in lump sum bid for maintaining traffic including lights, signs, barricades & Watchman. Item T-110 & M-10 material shall be applied as directed by the Engineer. Estimated quantities including surface for temporary run around road T-110 - 321 Cu. Yd. M-10 - 7 Tons.

UTILITIES ~ The contractor shall notify at least 48 hours before breaking ground all Public Service Corporations having wires, poles, pipe conduits, manholes, or other structures that may be affected by this operation. Any and all work required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted in these plans.

EXISTING UNDER GROUND APPURTENANCES ~ The location, size and depth of all existing pipe and underground utility appurtenance represents the best information obtainable, but the State of Ohio does not guarantee the correctness thereof. Payment for pipe removed will be made according to the listing shown on these plans.

FIELD OFFICE ~ A field office shall be furnished by the contractor at a convenient place for the exclusive use of the engineer and his assistants. It shall have a minimum floor area of 150 sq. ft. and shall be the contractors responsibility to provide ample light, equipment, and heat as per Sec. 5-0.01(b) of the Construction and Materials Specification. The Contractor shall have a telephone installed and maintained during the construction of this project. Payment for the above shall be included in the Contract Unit Price bid for the various items of the contract.

SPECIAL DITCHES ~ For special Ditch Grades see Cross Section sheets.

REMOVAL (MISCELLANEOUS) ~ The removal and disposal of any existing pavement, poles, stubs, head walls, pipes, or other masonry lying within or below the limits of any excavation item (and not specifically paid for under a separate item) are classified as excavation and paid for under the excavation item of which they are a part. Additional excavation necessary to perform any of the above operations shall be paid for at the contract unit price bid per Cu. Yd. for Item E-1 Roadway Excavation, or Item E-2 Excavation for Structures or, Item E-3 Channel Excavation.

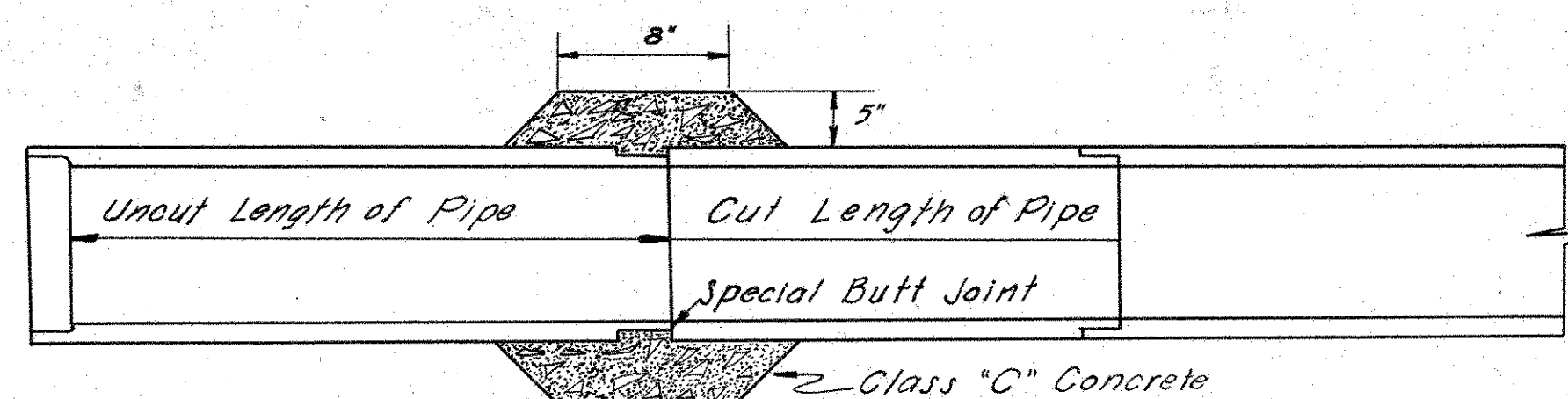
SEEDING AND PROTECTING TYPE "A" ~ Quantities for seeding Item L-9 are calculated for the soil areas between lines ten feet (10) outside the work limits as shown on the cross section or to the Right of Way line if such line is less than ten feet from the work limits. All areas outside these limits, where the vegetative growth has been injuriously disturbed or destroyed by the contractor, shall be restored and seeded in accordance with the provisions of Item L-9 by the contractor at his own expense.

B-11 COMPACTING ~ Stabilized Base Course material shall be placed and Compacted in layers not exceeding 4" compacted depth.

FINISHING SHOULDERS, SLOPES & DITCHES ~ Final earthwork sections shall be finished by rounding breaks in the shoulders, ditches, and backslopes as shown on the typical sections.

REMOVAL OF EXISTING PAVEMENT ~ Any existing traffic bound surface treated pavement required to be removed either by the plans or at the direction of the Engineer, shall be removed and disposed of in accordance with Item E-1 and paid for as same.

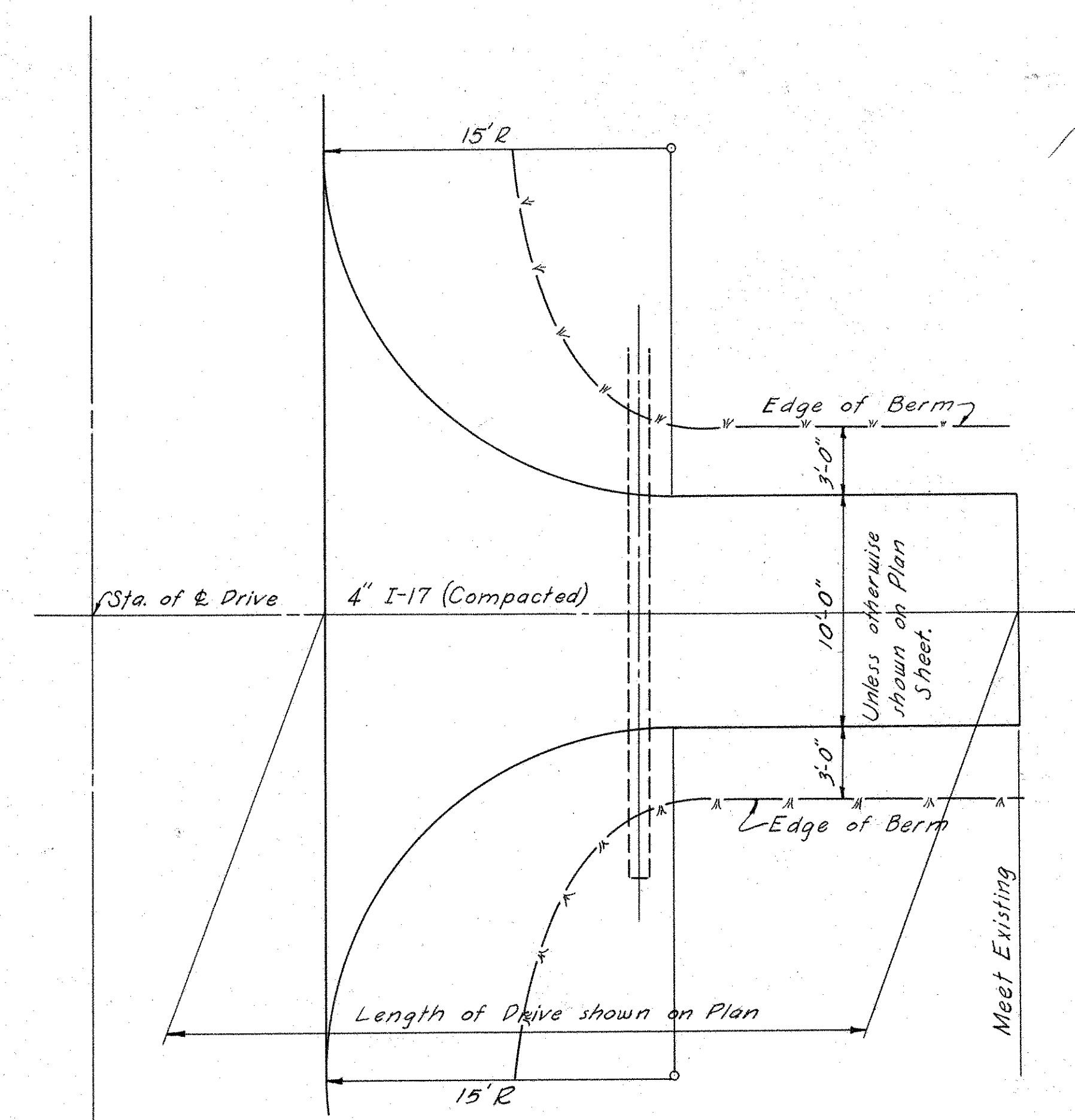
PIPE CULVERTS ~ When Bell and Spigot Pipe is used, any necessary pipe cutoffs will be made at the spigot end of the length of pipe adjacent to the end length. When Tongue and Groove pipe is used, the length of pipe next to the end length shall be cut and butt joint formed with a collar as shown below. Cost of the joint and collar to be included in the price bid per lin. ft. of pipe.



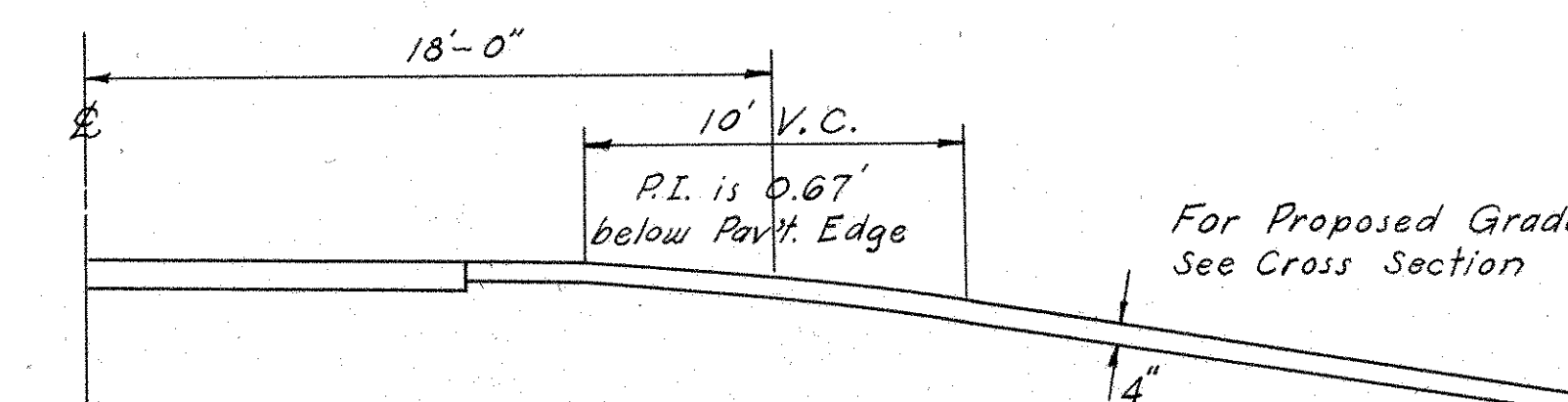
REMOVAL OF EXISTING GUARD RAIL ~ Existing Guard Rail becomes the property of the Contractor and cost of removal and disposal shall be included in price of removal of existing structure.

SANITARY SEWAGE ~ Any existing tile lines found to be carrying sanitary sewage, shall not be connected into roadway drainage lines, catch basins, culverts or roadside ditches, even though they may be shown to be connected on these plans.

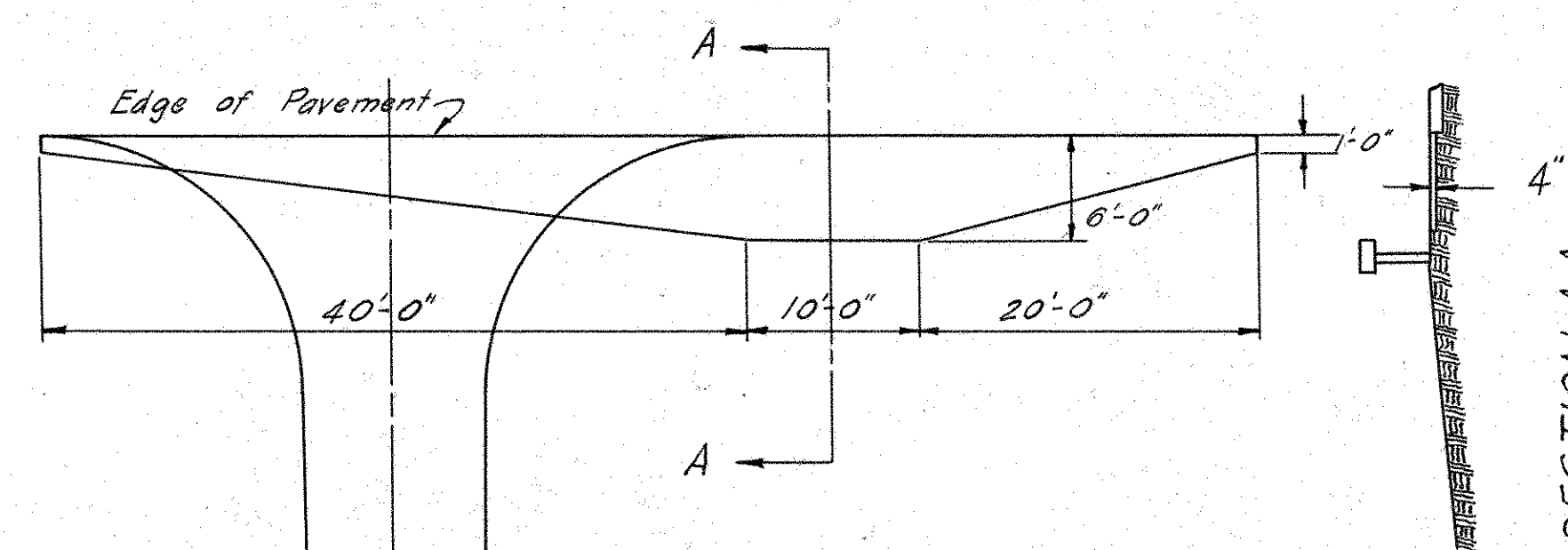
LENGTH OF PIPE SPECIALS ~ Pipe specials are assumed to be two feet (2') in length. If actual length of the pipe special used is less than two feet the contractor will furnish enough extra pipe to make up the difference between the assumed and actual length at the unit price bid for each special. If the actual length of pipe special used is greater than two feet, the extra length of the pipe special over two feet shall be paid for as lineal feet of pipe.



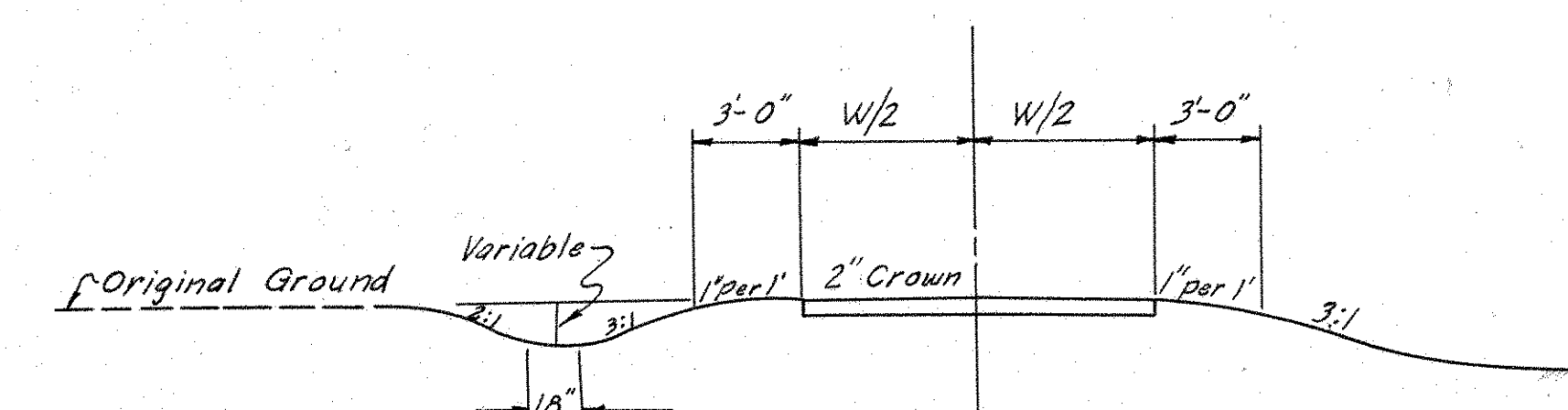
TYPICAL PLAN FOR DRIVES



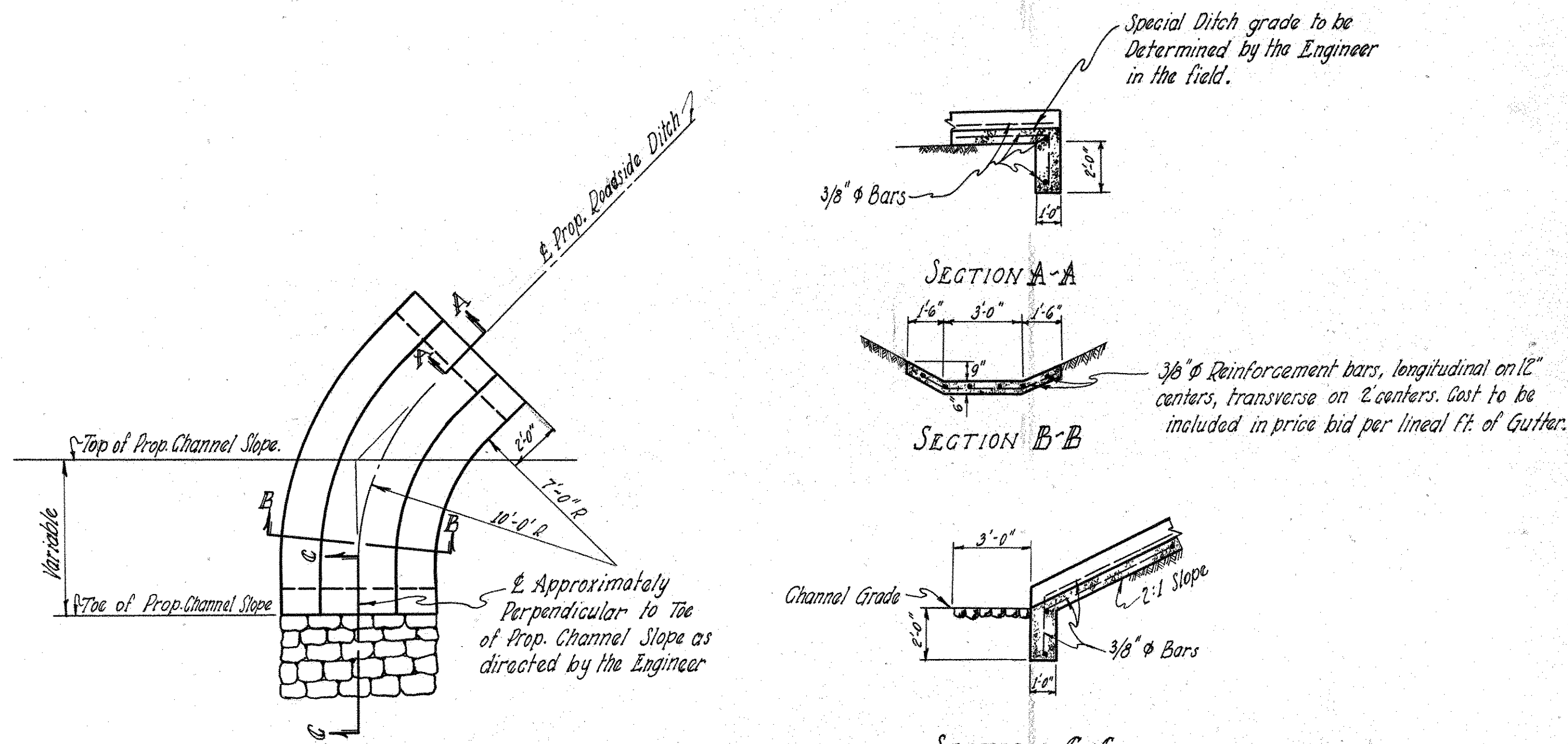
SECTION OF DRIVE



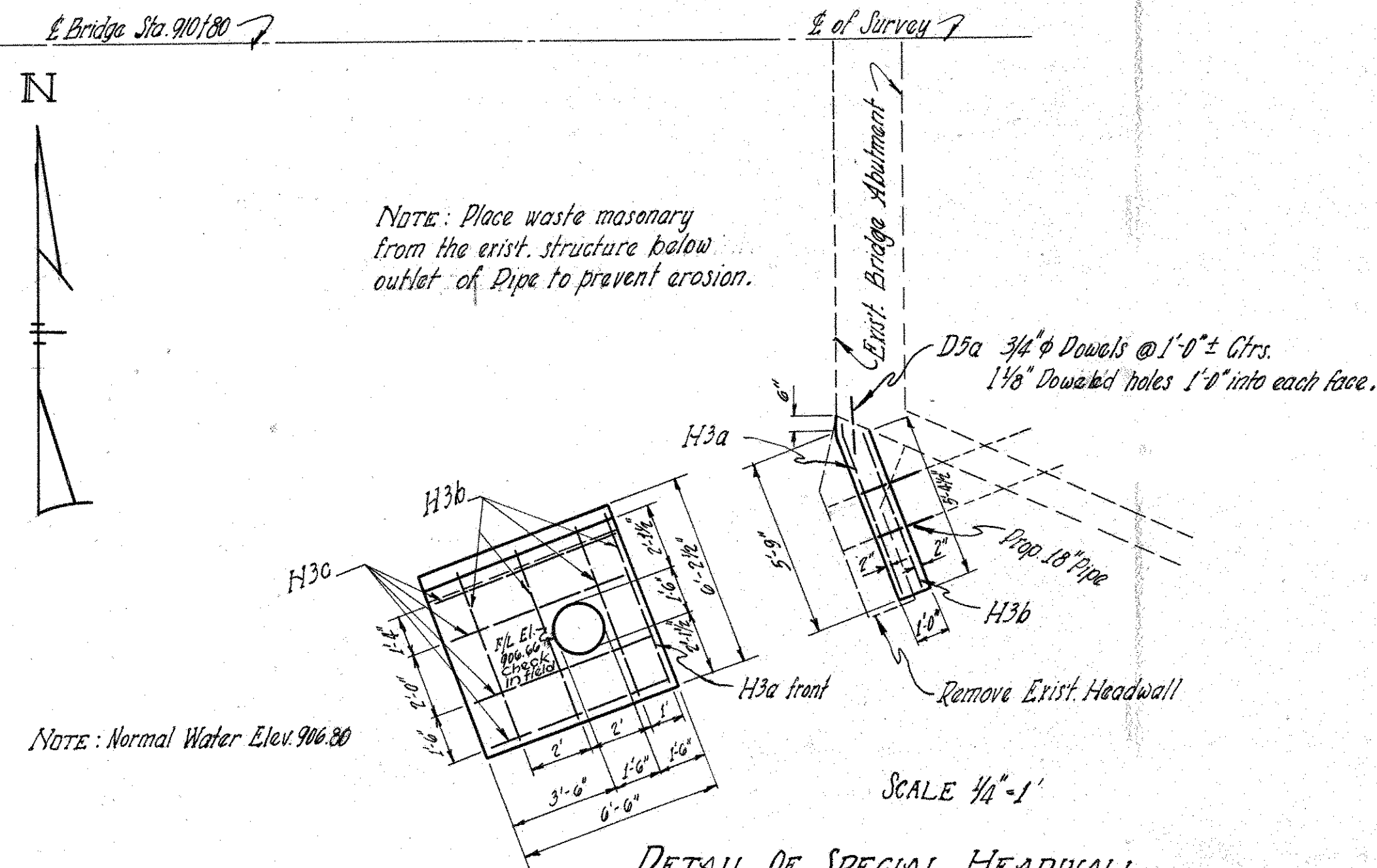
DETAIL OF MAIL BOX APPROACHES



TYPICAL SECTION FOR ALL DRIVES



SCALE 1/4"=1'
DETAILS OF SPECIAL CONCRETE GUTTERS
RT. & LT. OF BRIDGE STA. 910+80



ESTIMATED	QUANTITIES
ITEM S-1 Concrete for Structures "Class C"	1.4 Cu.Yds.
ITEM S-4 Reinforcing Steel	78 Lbs.
ITEM E-2 Excavation for Structure	1.7 Cu.Yds.
ITEM S-22 Removal of Portions of Exist. Structure	Lump
ITEM I-3 18" Pipe for Roadway Drainage	2 Lin.Ft.
ITEM S-23 1 1/8" Dowel Holes	7 Each

REINFORCING STEEL TABLE				
Mark	Size	Nº	Length	Weight
H3a	1/2" Ø	1	5'-9"	3.8
H3b	1/2" Ø	4	5'-0"	13.4
H3c	1/2" Ø	4	6'-0"	16.0
D5a	3/4" Ø	7	2'-0"	21.0
RE3	1/2" Ø	1	5'-8"	3.8
TOTAL				58.0

PAVEMENT CALCULATIONS

ITEM B-11 STABILIZED BASE COURSE	TOTAL
From Typical Section N°1 $572.50 \text{ Lin. Ft.} \times 21 \div 9 = 1335.83 \text{ Sq. Yds.}$	
From Typical Section N°2 $1335.8 \times 8 \div 36 = 296.8 \text{ Cu. Yds.}$	
Estimated Quantities	102.0 Cu.Yds.
From Drive & Approach Table $16 \text{ Sq. Yds.} \times 8 \div 36 = 3.6 \text{ Cu. Yds.}$	
Total	$402.4 \text{ Cu. Yds.} \div 30\% = 523 \text{ Cu. Yds.}$
ITEM B-11 WATER DELIVERED & APPLIED	
From Above Total $523 \times 0.05 \times 3780 \div 8.33 \times 1000 = 12 \text{ M. Gal.}$	
TOTAL	12 M.Gal.
ITEM B-11 SPREADING SHAPING & COMPACTING	
From Typical Sections N°1 & N°2 $(572.5 \times 480) \div 21 \div 9 = 2452.8 \text{ Sq. Yds.}$	
From Drive & Approach Table 10.0 Sq. Yds.	
TOTAL	2472.8 Sq. Yds.
ITEM T-30 BITUMINOUS PRIME COAT (SEC.M-5.7, RT. 2 or 3)	
From Above Table $2472 \text{ Sq. Yds.} \times 0.25 \text{ Gal. per Sq. Yd.} = 618 \text{ Gal.}$	
TOTAL	618 Gals.
ITEM T-30 BITUINOUS TACK COAT (SEC.M-5.7, RT. 2 or 3)	
From Drive and Approach Table $280 \text{ Sq. Yds.} \times 0.10 \text{ Gal. per Sq. Yd.} = 28 \text{ Gals.}$	
TOTAL	28 Gals.
ITEM T-32 BITUMINOUS MIX SURFACE COURSE	
From Typical Sections N°1 & N°2 $(572.5 \times 1480) \div 20 \div 9 = 2338 \text{ Sq. Yds.}$	
From Drive & Approach Table 280 Sq. Yds.	
Total	2624 Sq. Yds.
N°46 Aggregate $2624 \text{ Sq. Yds.} \times 0.0375 = 99 \text{ Cu. Yds.}$	99 Cu. Yds.
N°9 Aggregate for Choke $2624 \text{ Sq. Yds.} \times 0.00375 = 10 \text{ Cu. Yds.}$	10 Cu. Yds.
N°6 Aggregate for Seal $2624 \text{ Sq. Yds.} \times 0.0075 = 20 \text{ Cu. Yds.}$	20 Cu. Yds.
Bituminous Material for Road Mix (Sec. M-5.7, RT. 7, 8 or 9) $2624 \text{ Sq. Yds.} \times 0.70 = 1837 \text{ Gals.}$	1837 Gals.
Bituminous Material for Seal (Sec. M-5.7, RT. 7, 8 or 9) $2624 \text{ Sq. Yds.} \times 0.25 = 656 \text{ Gals.}$	656 Gals.
ITEM I-17 SIDE APPROACH MAIL BOX TURNOUTS & BERM MATERIAL	
From Drive and Approach Table $250 \text{ Sq. Yds.} \times 4 \times 1.20 \div 36 = 34 \text{ Cu. Yds.}$	
TOTAL	34 Cu. Yds.
ITEM E-11 WATER	
From Roadway Earthwork Table $1575 \times 5 \div 1000 = 8 \text{ M. Gals.}$	
TOTAL	8 M.Gals.
ITEM E-9 REMOVAL OF TREES & STUMPS	
Approx. No. of Trees = 3 Approx. No. of Stumps = 0	
TOTAL	Lump
ITEM L-9 SEEDING & PROTECTING TYPE "A"	
From Roadside Improvement Table 9440 Sq. Yds.	
TOTAL	9440 Sq. Yds.
ITEM L-9 COMMERCIAL FERTILIZER (10-0-4)	
From Roadside Improvement Table Estimated Seeding $9440 \times 9 \times 2\% \div 1000 \times 1\% \div 2000 = 0.85 \text{ tons}$	
TOTAL	0.85 Tons
ITEM L-9 AGRICULTURAL GROUND LIMESTONE	
From Roadside Improvement Table Estimated Seeding $9440 \times 9 \times 10\% \div 1000 \times 1\% \div 2000 = 4.25 \text{ tons}$	
TOTAL	4.25 Tons

MIAMI COUNTY
MIA. 70-(17.20)(18.26)

STRUCTURES ~ 20' SPAN & UNDER																		
Sheet No.	Ref No.	Station	Item E-2 Excavation For Structures	Item E-3 Channel Excavation	Item S-1 Concrete for Structure			Item S-3 Type "C" Waterproofing	Item S-4 Reinforcing Steel	Item S-9 1/4" Premoulded Expansion Joint Filler	Item S-14 Railing Type I-15, I-13 With Steel Posts	Item S-15 Temporary Runaround Bridge & Approaches	Item S-24 Removal of Existing Structure	Item S-29 Porous Backfill	Item S-30.3 Waterproofing Premoulded Sealing Strip	Item I-10 Riprap Type "A" Grouted	Item T-35 Type "A" or "C" Asphaltic Conc. Surface Course 2-1.4 Courses	
					Class "C"	Class "E"												
					Superstre	Abut Wall	Footings											
			Cu. Yds	Cu. Yds	Cu. Yds	Cu. Yds	Sq. Yds	Lbs.	Sq. Ft	Lin Ft.	Lump	Lump	Cu. Yds	Lin Ft	Sq. Yds	Cu Yds		
8	I-C	966+65	131.0	327.0	26.1	63.2	36.8	72	8948	12	38	Lump	Lump	33	17	60	5	
To Recap			131.0		26.1			8948								60		
To Summary				327.0		63.2	36.8	72		12	38	Lump	Lump	33	17		5	

DRIVES AND APPROACHES "A"								
Ref. No.	Sheet No.	Station	Side	T-30 Tack Coat @ 0.10 gal./sq. yd.	T-30 Prime coat @ 0.25 gal. on B-11 Stab- leized Base Course	T-32 Bituminous Rd. Mix Surface	I-17 Side App. Mat. Box, Berm Mat.	Remarks
1-A		907+72	Lt				53	Drive
2-A		907+75 to 908+00	Lt & Rt	53	35	55		Approach
3-A		909+52	Rt				30	M.B.
4-A		909+98	Rt				44	Drive
5-A		913+14	Rt				44	Drive
6-A		914+65 to 915+00	Lt & Rt	79		79		Approach
1-A		963+88 to 964+00	Lt & Rt	45		45		Approach
2-A		967+00	Rt				85	Drive & M.B.
3-A		968+50 to 969+00	Lt & Rt	103	12.5	107		Approach
Total to calculations				280	16.0	286	256	

ROADWAY EARTHWORK			
Station	Excavation	Embankment	Embankment + 20%
	Cu. Yds	Cu. Yds	Cu. Yds
907+00 to 915+00	206	1151	1381
963+80 to 971+00	565	404	485
Total	771	1555	1866
Excavation 771 Cu Yds Channel Excavation 327 Cu Yds Total 1098 Cu Yds Net Borrow = 1866 Cu Yds - 1098 Cu Yds = 768 Cu Yds			

ROADSIDE IMPROVEMENT		
Station		Item L-9 Seeding and Protecting Type "A"
From	To	Sq. Yds
907+00	915+00	5130
964+00	971+00	4310
Total		9440

ROADWAY DRAINAGE "D"																		
Sheet No	Ref. No.	Station	Side	E-2 Excavation For Strs.	E-12 Pipe Removed Disposed	F-1 Pipe For Drainways	F-3 Pipe For Road Way Drainage	F-5 Pipe Outlet For Roadway Dr.	F-5 Pipe Specials 12"x14"x12" Box	F-8 CB No.7 Side Ditch Catch Basin	I-10 Riprap	I-14 Paved Gutter	F-16 M.H. CB Inlets Abandoned	S-1 Conc. for Strs.	S-4 Reinforcing Steel	S-22 Removal of Portions of Exist. Str.	S-23 18" Dowel Holes	
				Cu. Yds.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Each	Sq. Yds.	Lin. Ft.	Each	Cu. Yds.	Lbs.	Exist. Str.	Each	
7	1-D	907+72	Lt		Under 15	12"	12"	18"	8"	12"								
	2-D	909+98	Rt		20	34												
	3-D	910+80	Lt															
	4-D	912+23 to 912+50	Rt				20		10	1		8	50					
	5-D	913+38	Rt				4			1	1							
	6-D	911+00	Rt	1.7				2							1.4	58	Lump	7
8	1-D	965+78	Lt									7						
	2-D	966+22 to 966+60	Lt				40		10	1				1				
	3-D	966+65 to 966+74	Lt															
	4-D	967+00	Rt		42	30												
	5-D	970+50	Lt								15							
	Total to Recap				1.7							33			1.4	58		
Total to Summary					91	94	64	2	10	20	1	1	1	1	50		Lump	7

RECAP					
From Roadway Drainage Table	Item I-10 Riprap Type "A" Grouted	Item I-15 Guard Rail Steel Beam Type	Item E-2 Excavation for Strs	Item S-1 Concrete for Strs Class "C"	Item S-4 Reinforcing Steel
	Sq. Yds	Lin. Ft.	Cu. Yds	Cu. Yds	Lbs.
From Roadway Drainage Table	33		1.7	1.4	580
From Structures 20' Span & Under	60		131.0	26.1	8948.0
From Guard Rail table (Part 1)		100			
From Guard Rail table (Part 2)		37			
Total to Summary	93	137	132.7	27.5	9006.0

GENERAL	SUMMARY	DESCRIPTION	ROADWAY
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		Cu. Yds.	Roadway Excavation
E-1	771	Cu. Yds.	Channel Excavation
E-2	327	Cu. Yds.	Borrow
E-3	768	Lump	Removal of Trees & Stumps
E-4	8	M.Cals.	Water
I-15	137	Lin. Ft.	Guard Rail, Steel Beam Type (Deep)
I-17	34	Cu. Yds.	Side Approaches, Mail Box Turnouts and Berm Material
L-9	9,440	Sq. Yds.	Seeding & Protecting Type A"
L-9	0.85	Tons	Commercial Fertilizer (10-0-4)
L-9	4.25	Tons	Agricultural Ground Limestone.
T-110	321	Cu. Yds.	Traffic Compacted Surface Course For Maintaining Traffic
M-10	7	Tons	Calcium Chloride For Maintaining Traffic
DRAINAGE			
E-2	133	Cu. Yds.	Excavation for Structures.
E-12	91	Lin. Ft.	Pipe Removed & Disposed of (15" and Under)
I-1	94	Lin. Ft.	12" Pipe for Driveways.
I-3	64	Lin. Ft.	12" Pipe for Roadway Drainage
I-3	10	Lin. Ft.	8" Pipe Outlets for Roadway Drainage
I-3	20	Lin. Ft.	12" Pipe Outlets for Roadway Drainage
I-5	3	Each	12" Pipe Specials for Roadway Drainage
I-8	1	Each	Std. No. 7 Side Ditch Catch Basin
I-10	93	Sq. Yds.	Riprap Type A" (Grouted)
I-14	50	Lin. Ft.	Paved Gutter as per plan
I-16	1	Each	Catch Basin Abandoned
I-3	2	Lin. Ft.	18" Pipe for Roadway Drainage.
S-1	100	Cu. Yds.	Concrete for Structures, Class E"
S-1	217	Cu. Yds.	Concrete for Structures, Class C"
S-3	72	Sq. Yds.	Type C" Waterproofing
S-4	900	Lbs.	Reinforcing Steel
S-9	12	Sq. Ft.	14" Premoulded Expansion Joint Filler.
S-22	Lump	Lump	Removal of Portions of Existing Structure
S-23	7	Each	1 1/8" Dowel Holes
S-24	Lump	Lump	Removal of Existing Structure
S-29	33	Cu. Yds.	Porous Backfill
S-303	17	Lin. Ft.	Waterproofing (Premoulded Sealing Strip)
S-14	38	Lin. Ft.	Railing (Type I-15.13 with steel posts)
S-15	Lump	Lump	Temporary Run-around Road & Bridge
T-35	5	Cu. Yds.	Asphaltic Concrete Surface Course Type A or B" (70-80 or 85-100).
PAVEMENT			
B-11	523	Cu. Yds.	Delivered Completed Mixture Type "B"
B-11	12	M. Gal.	Delivered and Applied Water
B-11	2,472	Sq. Yds.	Spreading, Shaping and Compacting.
T-30	618	Gals.	Bituminous Prime Coat. Sec. M-5.7 Rt. 2 or 3
T-30	28	Gals.	Bituminous Tack Coat. Sec. M-5.7 Rt. 2 or 3
T-32	656	Gals.	Seal Coat Bituminous Material Sec. M-5.7 Rt. 2 or 3
T-32	1,837	Gals.	Road Mix Bituminous Material Sec. M-5.7 Rt. 2 or 3
T-32	99	Cu. Yds.	Nº40 Aggregate for Road Mix.
T-32	10	Cu. Yds.	Nº9 Aggregate for Grate
T-32	20	Cu. Yds.	Nº6 Aggregate for Seal.
STRUCTURES OVER 20 FT. SPAN			
For Quantities See Sheet N° 17			

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	H.I.F.	1950

MIAMI COUNTY
MIA.70 (17.20) (18.26)

Diagram illustrating a typical section of adjoining pavement. The total width is 30 feet, divided into three 10-foot sections. The central 10-foot section is labeled "Traffic Bound Surface Treated".

Vernance E. Neal
 0.183 Ac.

UTILITY

Troy Tipp Telephone Co. Inc.
Dayton Power & Light Co.

48.85'

015700

5417'

Cul/Nell\'' in
Clothes Post

S.E. Corner Yard

Iron Post
S.W. Corner Yard

PROJECT - HWT 1

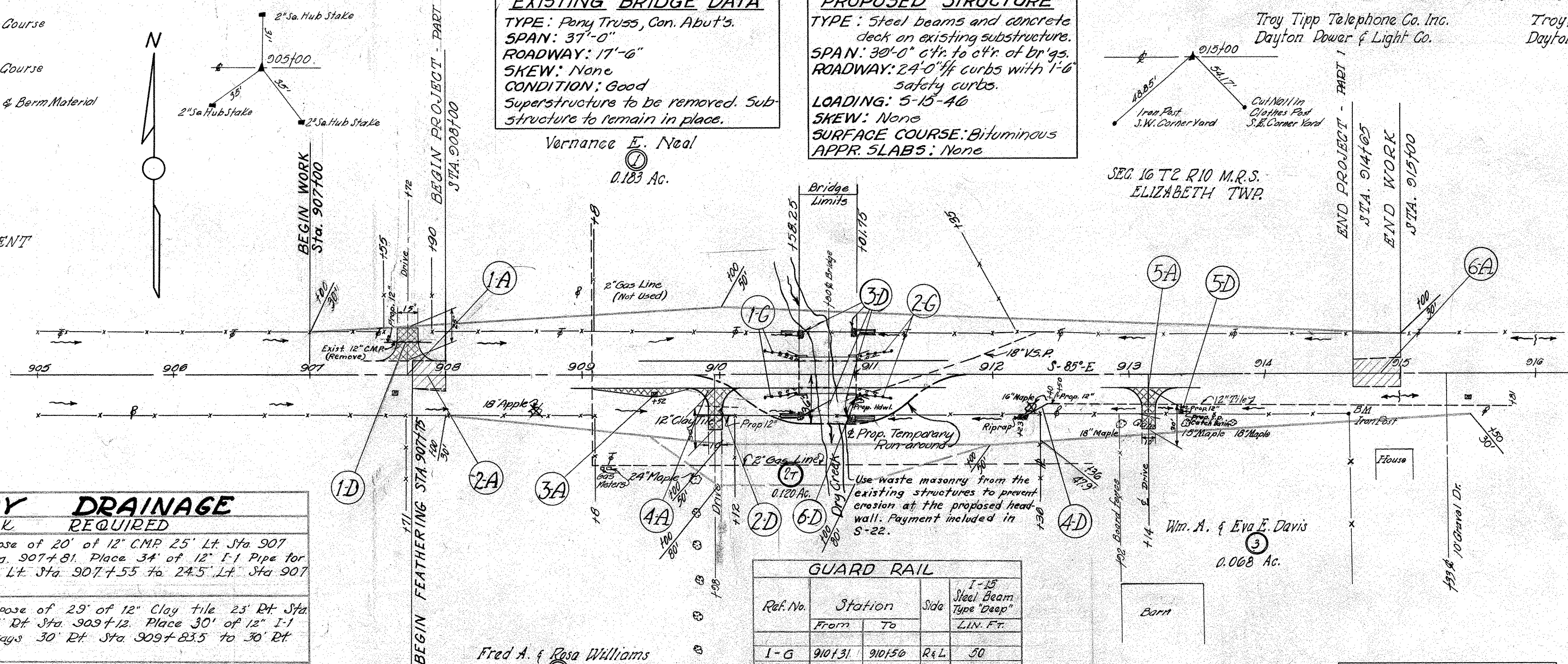
A. 014605	WORK
	015700

SEC 16 T2 R10 M.R.S.
ELIZABETH TWP.

UTILITY	OWNERSHIP
Tipp Telephone Co. Inc.	Troy, Ohio
ton Power & Light Co.	Dayton, Ohio

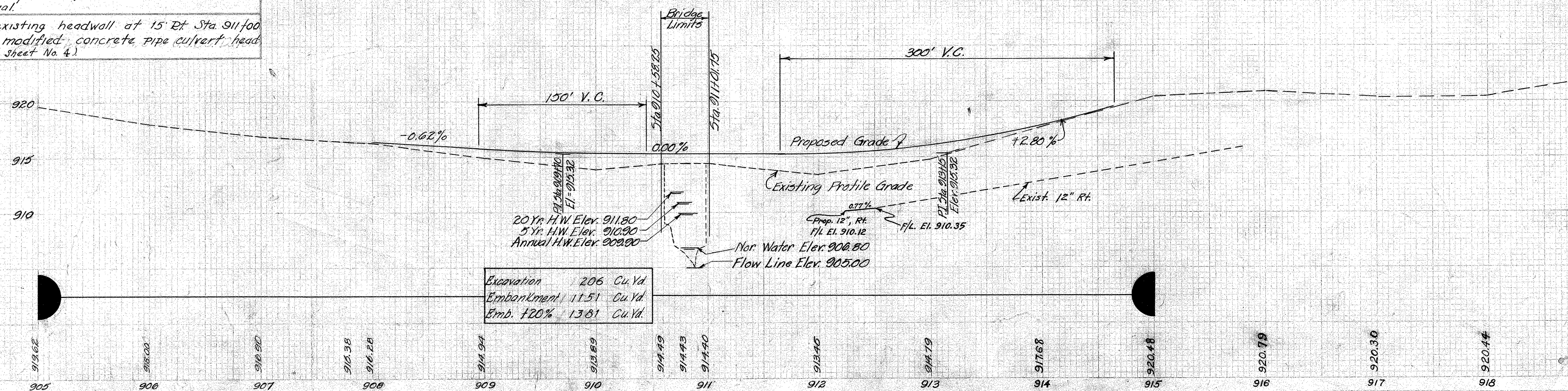
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

MIAMI COUNTY
MIA-70-(17.20)(18.26)
BRIDGE No MI. -70-173



ROADWAY DRAINAGE		
REF NO.	WORK	REQUIRED
1-D	Remove and dispose of 20' of 12" CMP 25' Lt. Sta 907+61 to 25' Lt. Sta. 907+81. Place 34' of 12" I-1 Pipe for Driveways 24.5' Lt. Sta 907+55 to 24.5' Lt. Sta 907+69.	
2-D	Remove and dispose of 29' of 12" Clay tile 23' Rt. Sta 909+83 to 24' Rt. Sta. 909+12. Place 30' of 12" I-1 Pipe for Driveways 30' Rt. Sta 909+83.5 to 30' Rt. Sta 910+12.5.	
3-D	Construct a total of 50' linear feet of I-14 Paved gutter on the four roadside ditches entering Dry Creek at the Bridge at Sta 910+80. The linear feet of paved gutter for each ditch is on the roadway cross-sections. Place 2 3/4 yds. of Rip-rap Type A' (Grouted) at the outlet of each of the four paved gutters. (See Detail Sheet N°4.)	
4-D	Extend existing 12" Tile with 12"x 30" bend I-5 pipe special, 20' of 12" I-3 pipe for roadway drainage and 10' of 12" I-3 pipe outlet for roadway drainage 325' Rt. Sta 912+23 to 22' Rt. Sta. 912+50. Place 3 3/4 yds. of Rip-Rap at the proposed pipe outlet as directed by the Engineer.	
5-D	Place one side ditch Catch Basin I-8 C.B. No 7, 215' Rt. Sta 913+38. Shape earth from drive to drain into the Prop. Catch Basin. Connect A' of 12" I-3 pipe for roadway drainage from C.B. into 12" Tee I-5 pipe special.	
6-D	Remove the existing headwall at 15' Rt. Sta 911+00. Construct a modified concrete pipe culvert head wall (See detail sheet No. 4).	

GUARD RAIL				
Ref. No.	Station		Side	1-15 Steel Beam Type "Deep" LIN. FT.
	From	To		
I-G	910131	910150	R & L	50
E-G	911104	911129	R & L	50
	Total			100



PLAN & PROFILE ~ STA 905+00 TO 918+00

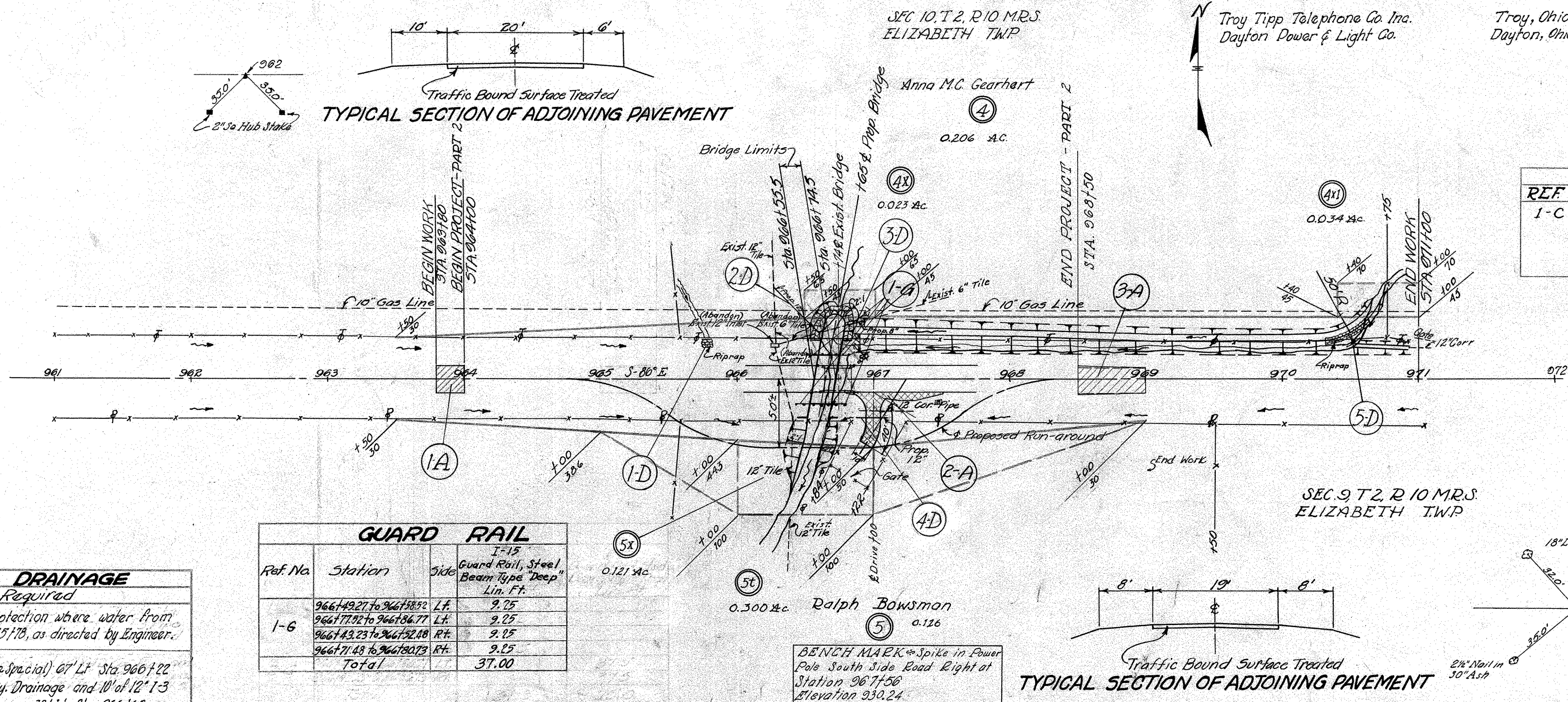
(For 4711 to be checked 10-19-1950)

EXISTING BRIDGE DATA
TYPE: Steel Beam - Stone Abutts
SPAN: 16'-8 1/2" LOADING: H-10
ROADWAY: 16'-0"
SKEW: None
FLOOR: 3" Plank
CONDITION: Fair
To Be Removed

PROPOSED STRUCTURE
TYPE: Standard Slab Bridge
SPAN: 16'-0"
ROADWAY: 36'-0" w/ Guard Rails
LOADING: 5-15-40
SKEW: 10° Left Forward
SURFACE COURSE: Asphaltic Conc.
APPR. SLABS: None

ROADWAY DRAINAGE	
Ref. No.	Work Required
1-D	Place 7 Sp. Yds. of 1-10 Riprap as bank protection where water from field enters side ditch at Approx. 29' Lt. Sta. 965+75, as directed by Engineer.
2-D	Relocate Ex. 12" Tile with 12"x45" Bend (1-5 Pipe Spacing) 67' Lt. Sta. 966+22 and connect to this 40' of 12" 1-3 Pipe for Rdwy. Drainage and 10' of 12" 1-3 Pipe Outlet for Rdwy. Drainage. End Pipe at Approx. 33' Lt. Sta. 966+60. Grade of Pipe to be constructed as directed by the Engineer (Approx. Outlet 1/4" Elev. 928.4). Abandon Ex. 12" Inlet and Pipes entering inlet. Plug Ex. Pipes Entering Exist. Inlet.
3-D	Place 10' of 8" 1-3 Pipe Outlet for Rdwy. Drainage at approx. 40' Lt. Sta. 966+65 and connect to Exist. 6" Tile at 42.5' Lt. Sta. 966+74. Construct Pipe through the riprap at channel and set grade of pipe as directed by the Engineer.
4-D	Remove and dispose of 42' of 12" Curr. Pipe and place 30' of 12" 1-1 Pipe for Driveways 28' Rt. Sta. 966+85.5 and End 28' Rt. Sta. 967+14.5.
5-D	Place 15 Sp. Yds. of 1-10 Riprap as bank protection at the turn of the proposed ditch at approx. 34' Lt. Sta. 970+50 as directed by Engineer.

GUARD RAIL			
Ref. No.	Station	Side	Guard Rail, Steel Beam Type Deep Lin. Ft.
1-6	966+49.27 to 966+88.52	Lt.	9.25
	966+77.92 to 966+86.77	Lt.	9.25
	966+49.23 to 966+82.18	Rt.	9.25
	966+77.49 to 966+80.73	Rt.	9.25
Total			37.00

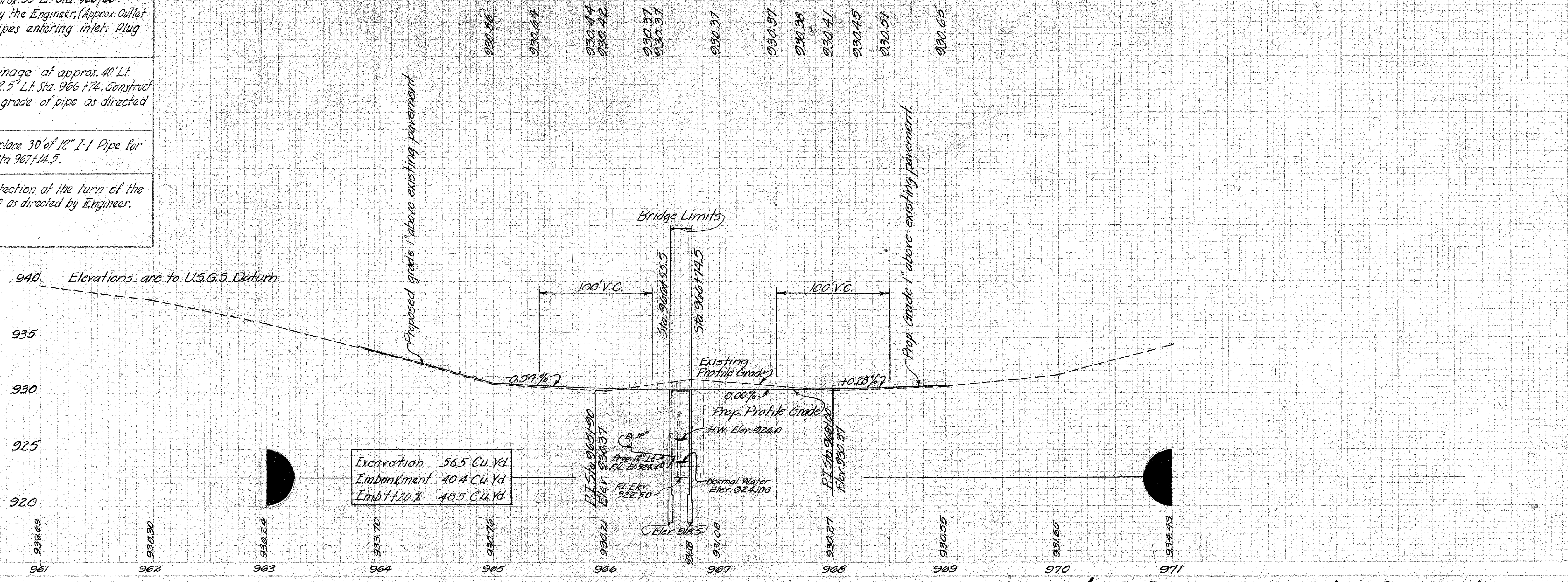


UTILITY OWNERSHIP
Troy Tapp Telephone Co. Inc.
Dayton Power & Light Co.
Troy, Ohio
Dayton, Ohio

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	HIF	1950

MIAMI COUNTY
MIA-70-(17.20)(18.20)
BRIDGE No. MI-70-183

STRUCTURES	
REF. NO.	WORK REQUIRED
1-C	Construct 16'-0" Span Conc. Slab top Bridge as shown on Detailed Drawing Sheet No. 13.



PLAN & PROFILE - STA. 961+00 TO 971+00

(Exist. x 300, Ck'd 10-28-49)
(Prop. x 500, Ck'd 11-2-49)
(Area Volumes from 11-22-49)

End Area Volume	Cut	Fill	Cut Fill
911.50	913.67	911.50	913.67

End Guard Rail R/Ly Lt. Sta 911+29

915.32
911+50
913.67

915.32
911+15
914.13

915.32
911+25 (Back of Abutment)
914.32

915.32
910+51.25 (Back of Abutment)
914.49

915.32
910+52
914.26

915.32
910+45
914.42

915.33
910+20
914.07

915.36
910+00
913.89

915.75
909+00
914.34

916.37
908+00
916.26

907+00
916.50

Begin Project Sta 909+00

Begin Work Sta 907+00

907+72 Drive Left
916.45

The grade and elevation of the proposed 12" pipe to be constructed as directed by the Engineer.

Begin Guard Rail R/Ly Lt. Sta 910+31

12 Lin. Ft. of Paved Gutter

13 Lin. Ft. of Paved Gutter

13 Lin. Ft. of Paved Gutter

12 Lin. Ft. of Paved Gutter

Location 206 Ck'd
Elevation 11.51
Ck'd

Add for Dr. R/Ly

Add for Dr. L/R

MIAMI COUNTY
MIA-70-(17.20)(18.26)
BRIDGE No MI-70-173

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

9
18

CROSS SECTIONS ~ STA 907+00 TO 911+50

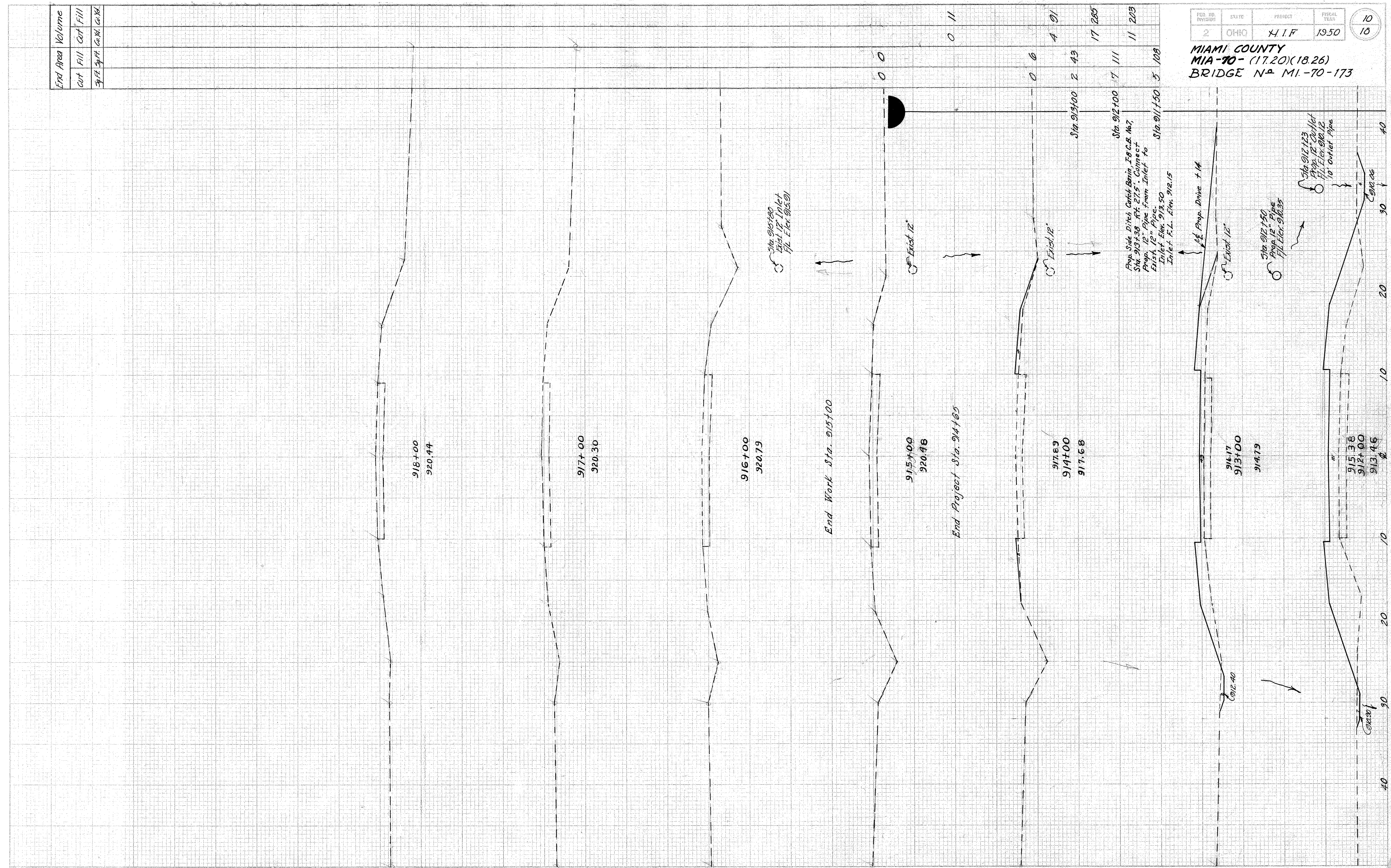
(EXIST. P.L. Hcd 1.18, 10-29-93)
(EXIST. CHECKING RISEN 0-21-93)
Proposed & Sections checked by FLS-11-2

End Area Volume	
Cut	Fill
Sta 912+00 to Sta 918+00	Sta 912+00 to Sta 918+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	1950

10
10

MIAMI COUNTY
MIA-70-(17.20)(18.26)
BRIDGE N^o MI-70-173



CROSS SECTIONS ~ STA 912+00 TO 918+00

Year	1990	2000	2010	2020	2030	2040
1990	40	30	20	10	0	0
2000	40	30	20	10	0	0
2010	40	30	20	10	0	0
2020	40	30	20	10	0	0
2030	40	30	20	10	0	0
2040	40	30	20	10	0	0



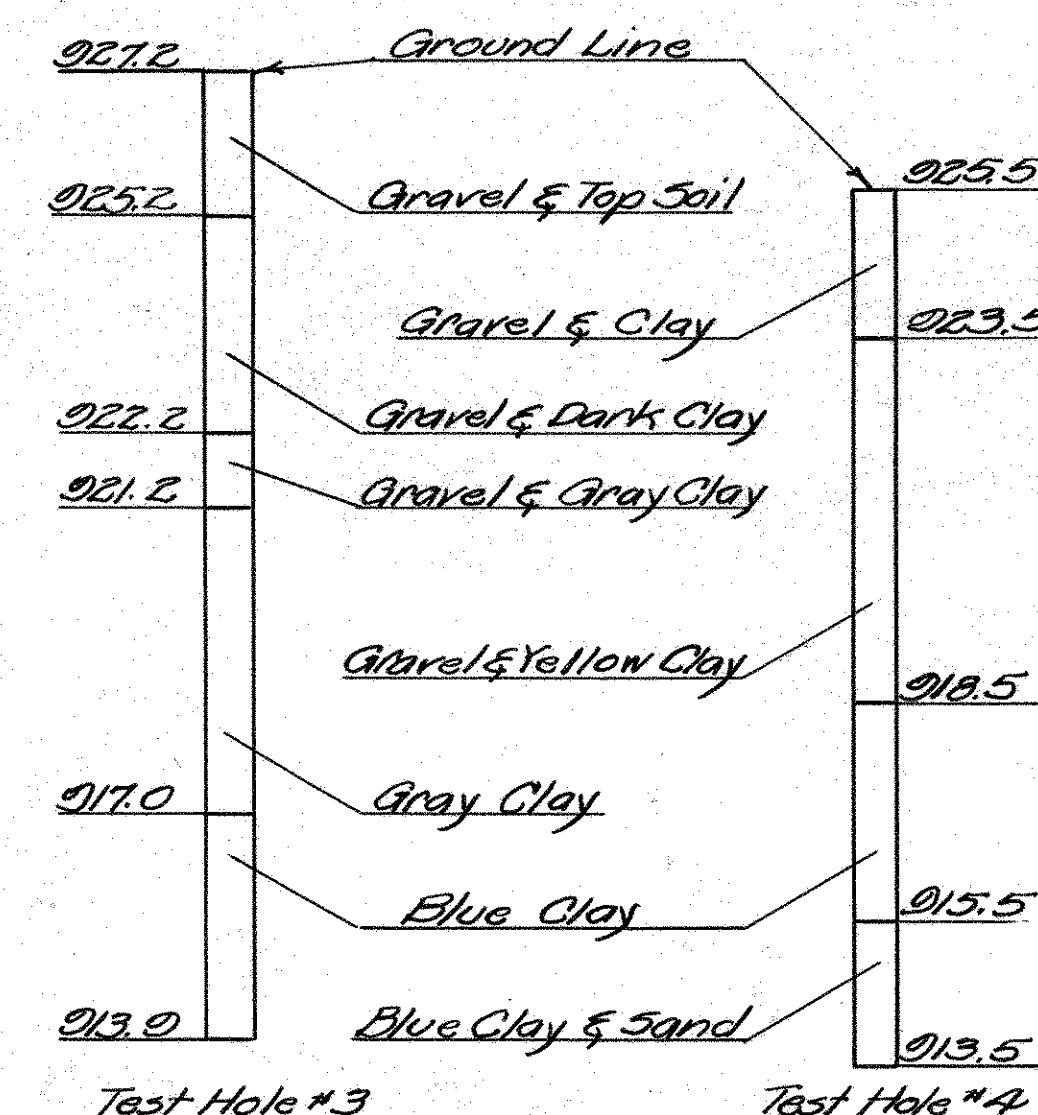
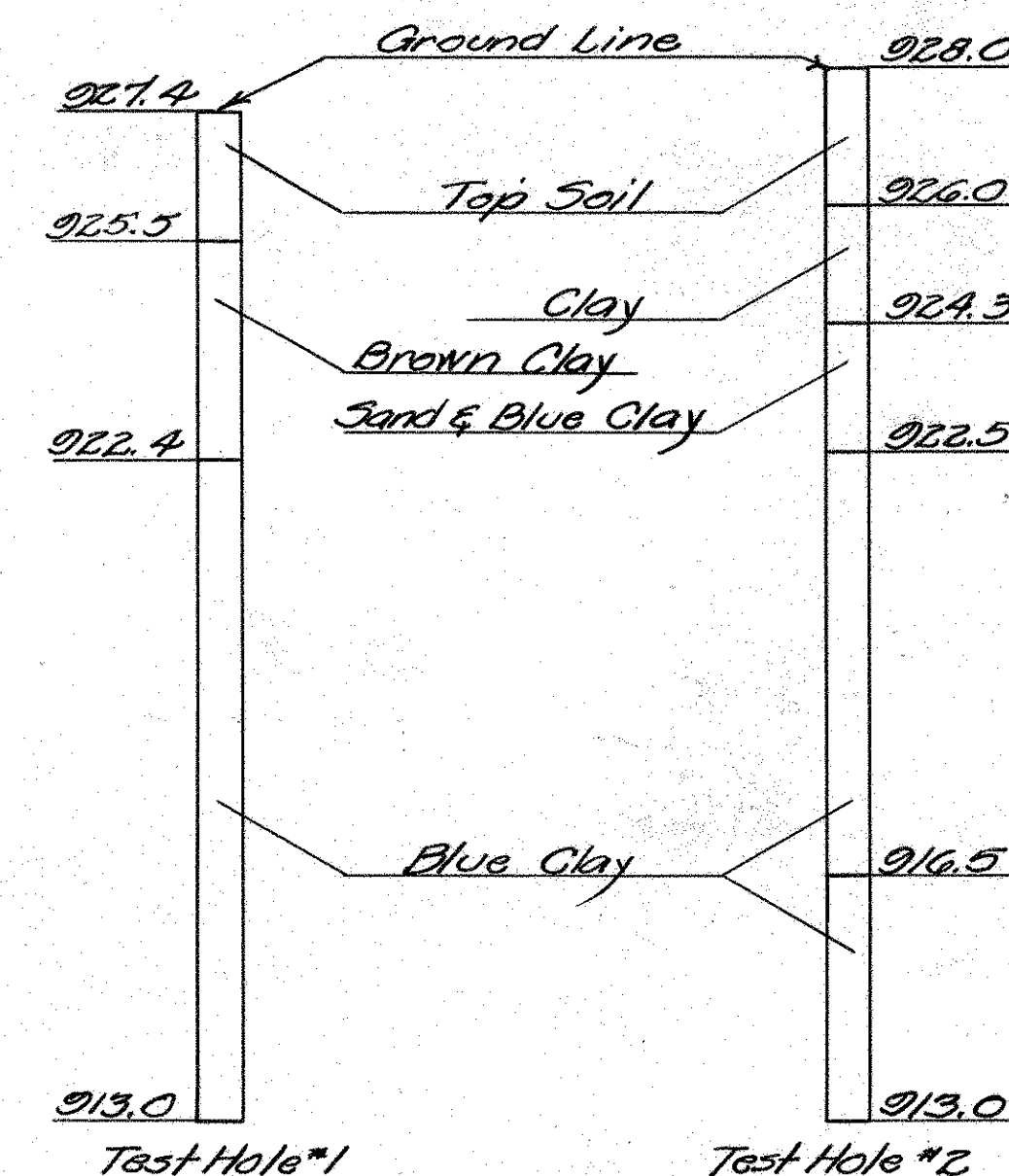
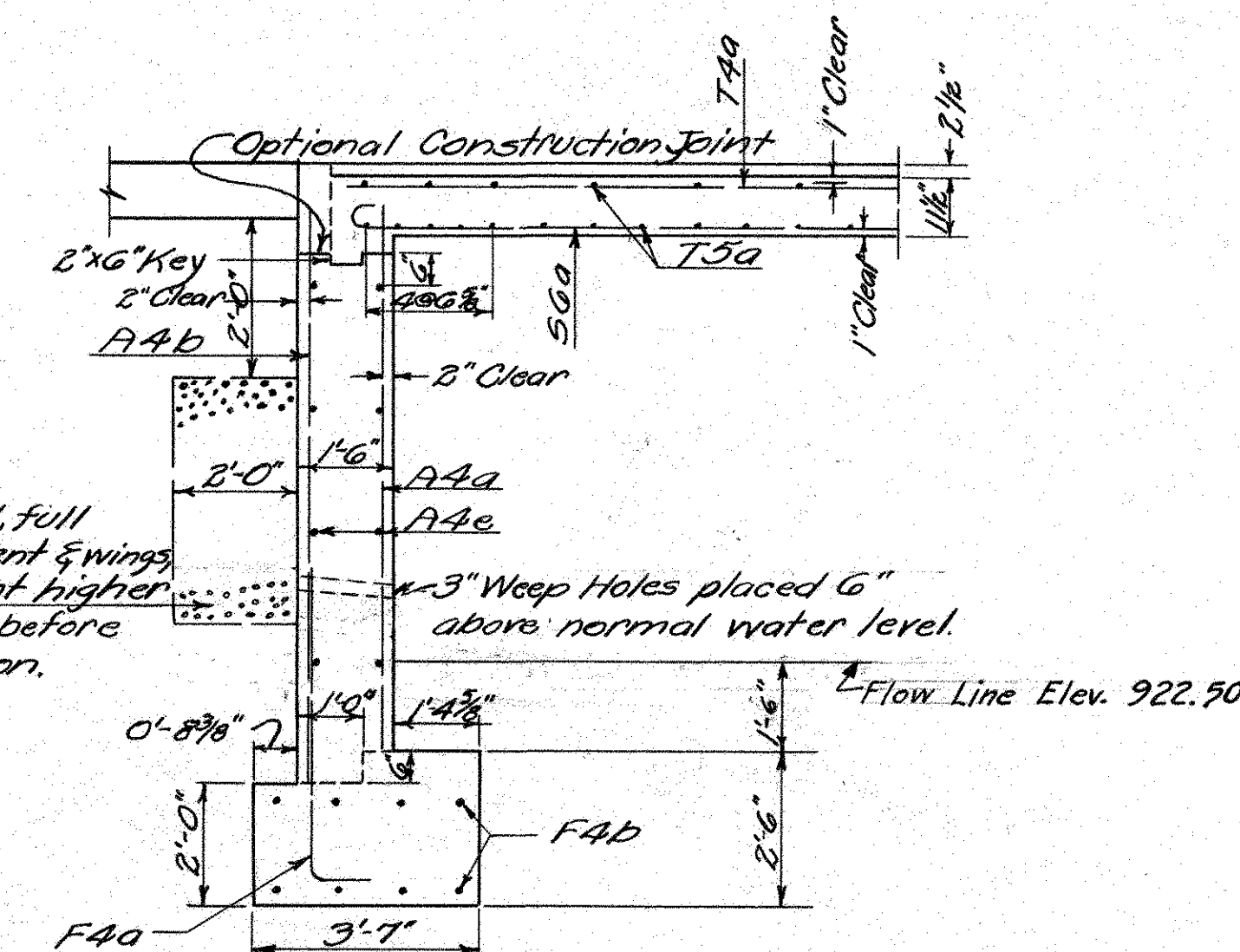
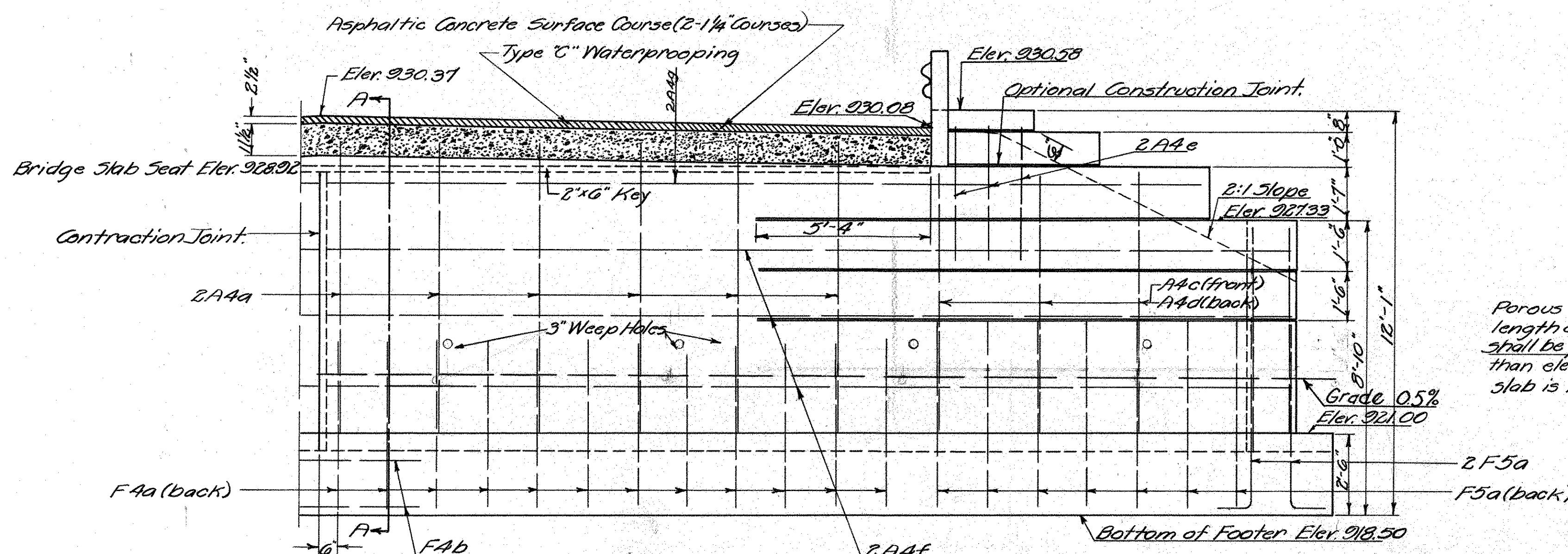
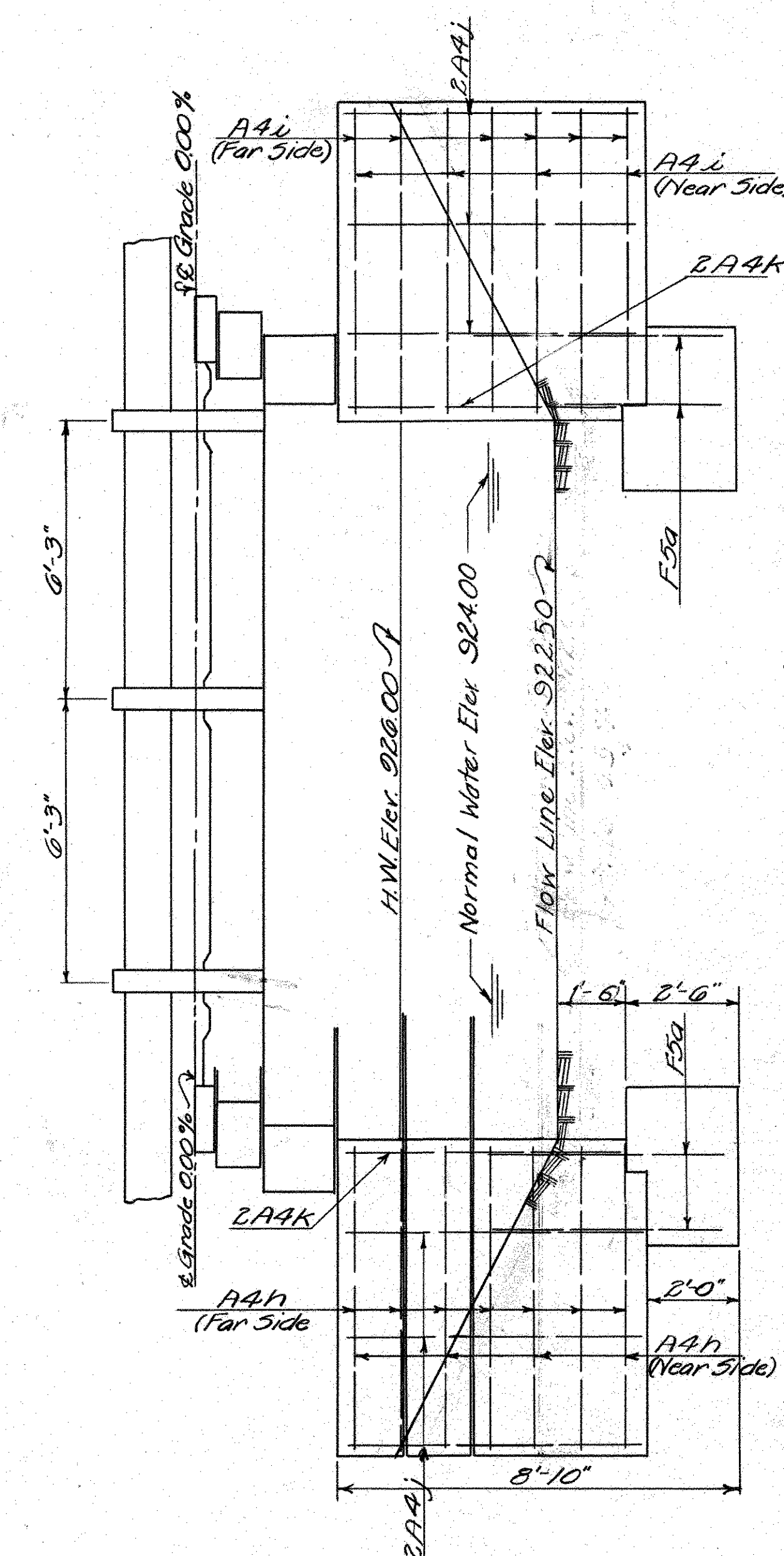
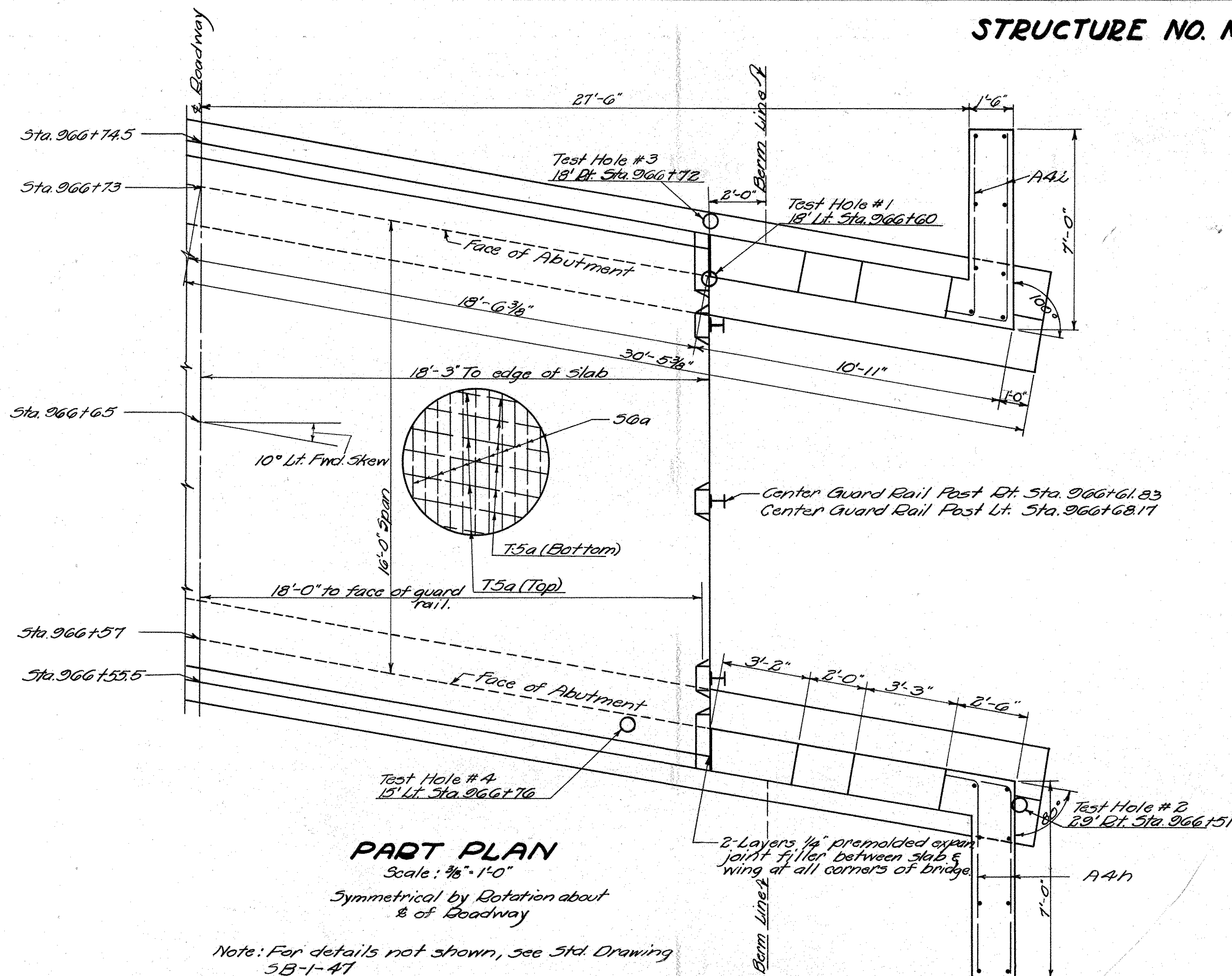
MIAMI COUNTY
MIA ~ 70 ~ (17.20)(18.26)
BRIDGE N^o MI-70-183

CROSS SECTIONS ~ STA. 962+00 TO 972+00

STRUCTURE NO. MI-70-183

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	H.I.F.	1950

MIAMI COUNTY
MIA-70-(17.20)(18.26)
BRIDGE No MI-70 183



NOTE:-
The State assumes no responsibility
for the accuracy of the above founda-
tion information.

DRAINAGE AREA - 0.91 SQ. MI.

Designed by RDM
Traced by RDM
Checked by J.L.S.
Reviewed by R.H.S.

STRUCTURE - STA. 966+65

MIAMI COUNTY
MIA - 70 - (17.20)(18.26)
BRIDGE N^o 70-183

GENERAL NOTES

SURFACE COURSE 2 1/2" Asphaltic Concrete Surface Course, Item T-35, laid in two 1 1/2" courses. DECK shall be waterproofed with type "C" waterproofing.

TEMPORARY RUN-AROUND & APPROACHES shall be paid for as lump sum under Item S-15, except furnishing and placing approach surface course. Surface course aggregate shall be paid for per cu yd, and be governed by Supplemental Specification T-110 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-105 with side slopes not steeper than 1 1/2:1.

REMOVAL OF EXISTING BRIDGE when no longer needed to maintain traffic, structural steel, lattice railing, channel railing and I-Beam railing posts shall be piled along the right-of-way at the disposal of the State forces, and the remainder of the superstructure shall be disposed of by the contractor. (Suitable waste masonry may be used as Rip-Rap as directed by the Engineer where shown on the plans.)

EXISTING SUPERSTRUCTURE may be moved and used as run-around bridge.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structure (Unclassified)	131.0 Cu. Yds.
Item E-3	Channel Excavation	327.0 Cu. Yds.
Item S-1	Concrete for Structure Class "C" (Superstructure)	26.1 Cu. Yds.
Item S-1	Concrete for Structure Class "E" (Abutment Walls)	63.2 Cu. Yds.
Item S-1	Concrete for Structure Class "E" (Footers)	36.8 Cu. Yds.
Item S-9	1/4" Premoulded Expansion Joint Filler	12.0 Sq. Ft.
Item S-4	Reinforcing Steel	8948.0 Lb.
Item S-29	Porous Backfill	33.0 Cu. Yds.
Item S-323	Waterproofing (Premoulded Sealing Strip)	17.0 Lin. Ft.
Item S-24	Removal of existing Structure	Lump
Item S-14	Railing (Type I-15.13 Guard Rail with Steel Posts)	38.0 Lin. Ft.
Item S-3	Type "C" Waterproofing	72.0 Sq. Yds.
Item T-35	Asphaltic Concrete Surface Course (Type "A" or "C") (10-80 or 85-100)	5.0 Cu. Yds.
Item I-10	Riprap, Type "A" Grouted	60.0 Sq. Yds.
Item S-15	Temporary Run-around Bridge and Approaches	Lump

BRIDGE DATA

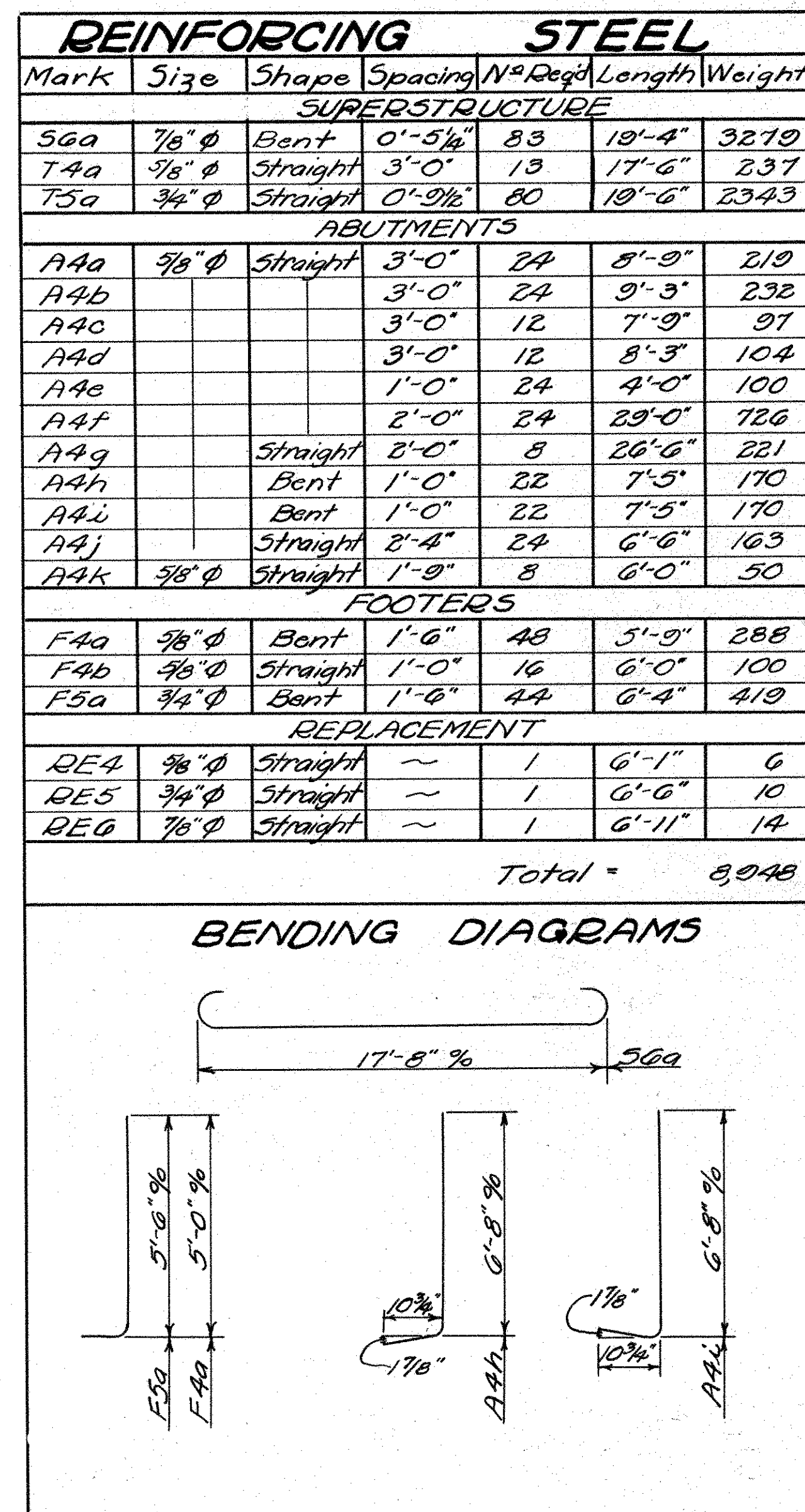
TYPE ~ Reference shall be made to Std. Dwg. #SB-1-47 (Revised 1-20-48). Supplemental Specifications S-303, dated 12-20-46 & T-110 revised 8-3-36. S-15-46 Loading.

SIZE ~ 36'-0" Roadway, 16'-0" Span

WORK REQD ~ Build Reinforced Concrete Slab Top Bridge without gutters at sta. 966 + 65. 10" Left Forward Skew.

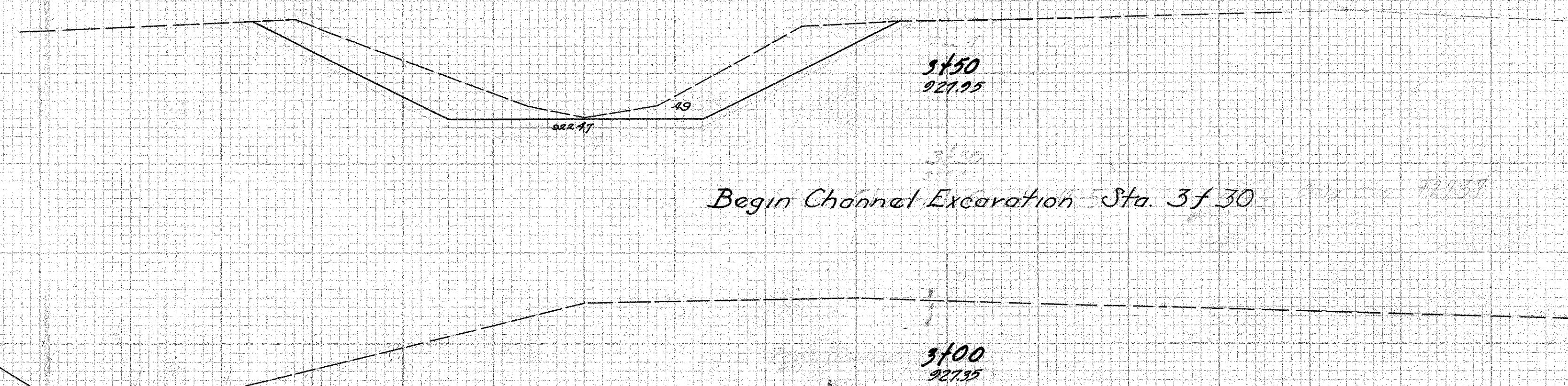
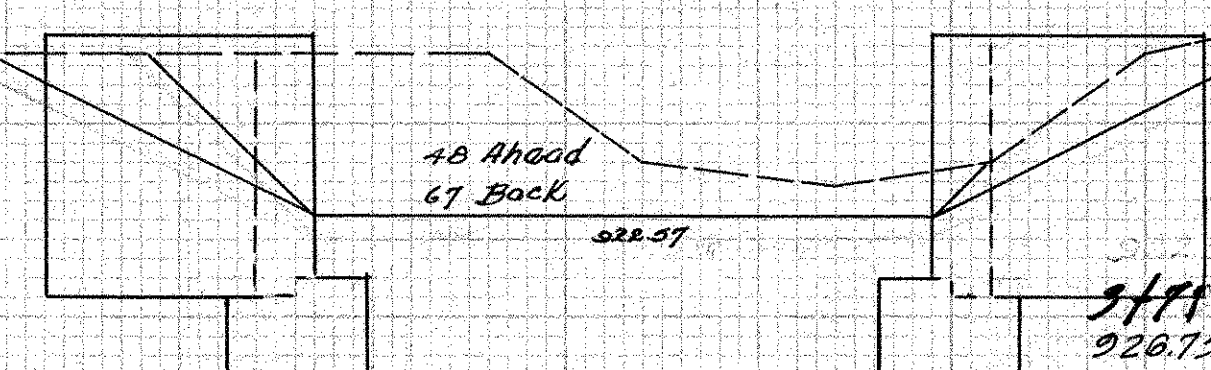
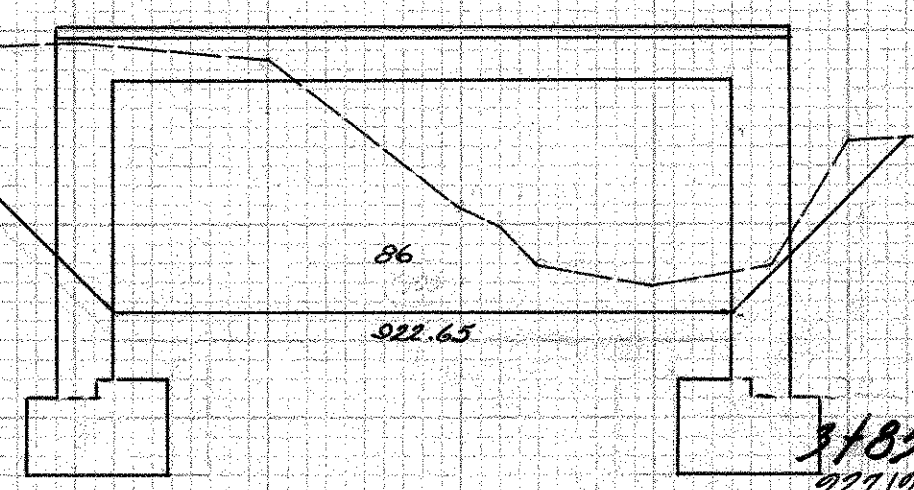
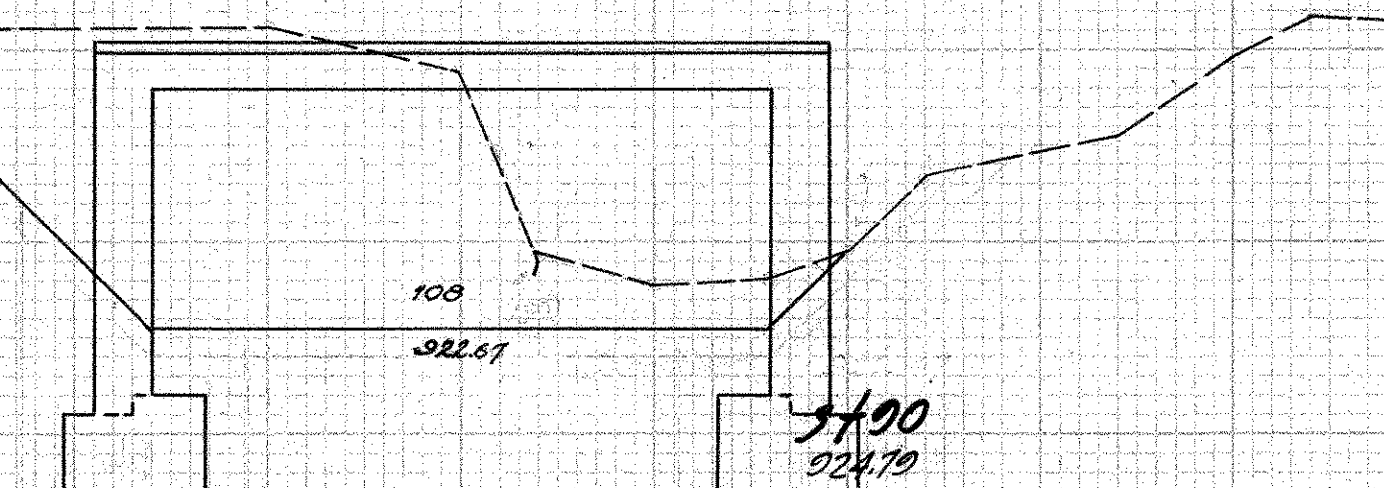
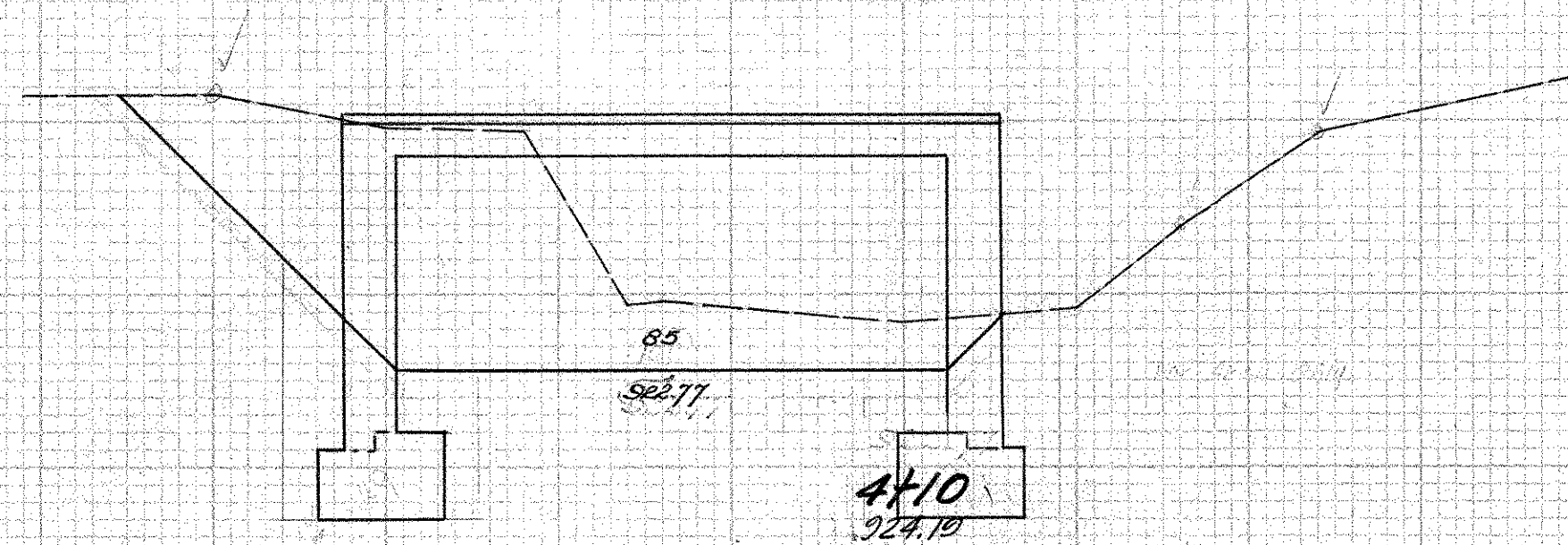
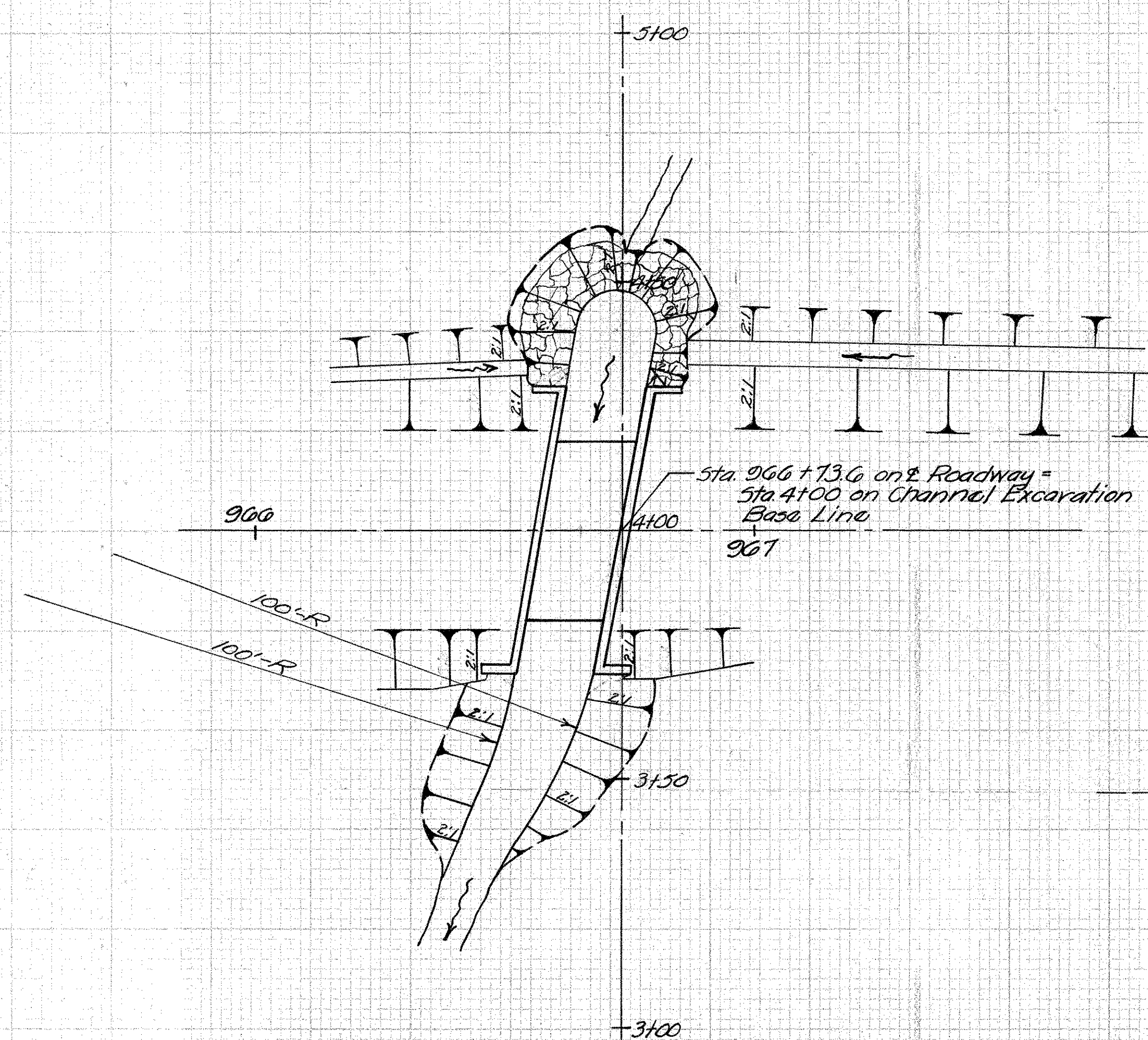
Excavate for Prop. Structure and channel change as shown. Remove Steel Beam and Stone Abutments of 16'-8 1/2" Span. Structure located at Sta. 966 + 73.6 per Item S-24.60 Sq. Yds. of Rip-Rap Type "A" grouted to be placed as shown on Plans or as directed by the Engineer.

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 S-1.



EXCAVATION	327	CU YDS
EMBANKMENT	0	CU YDS

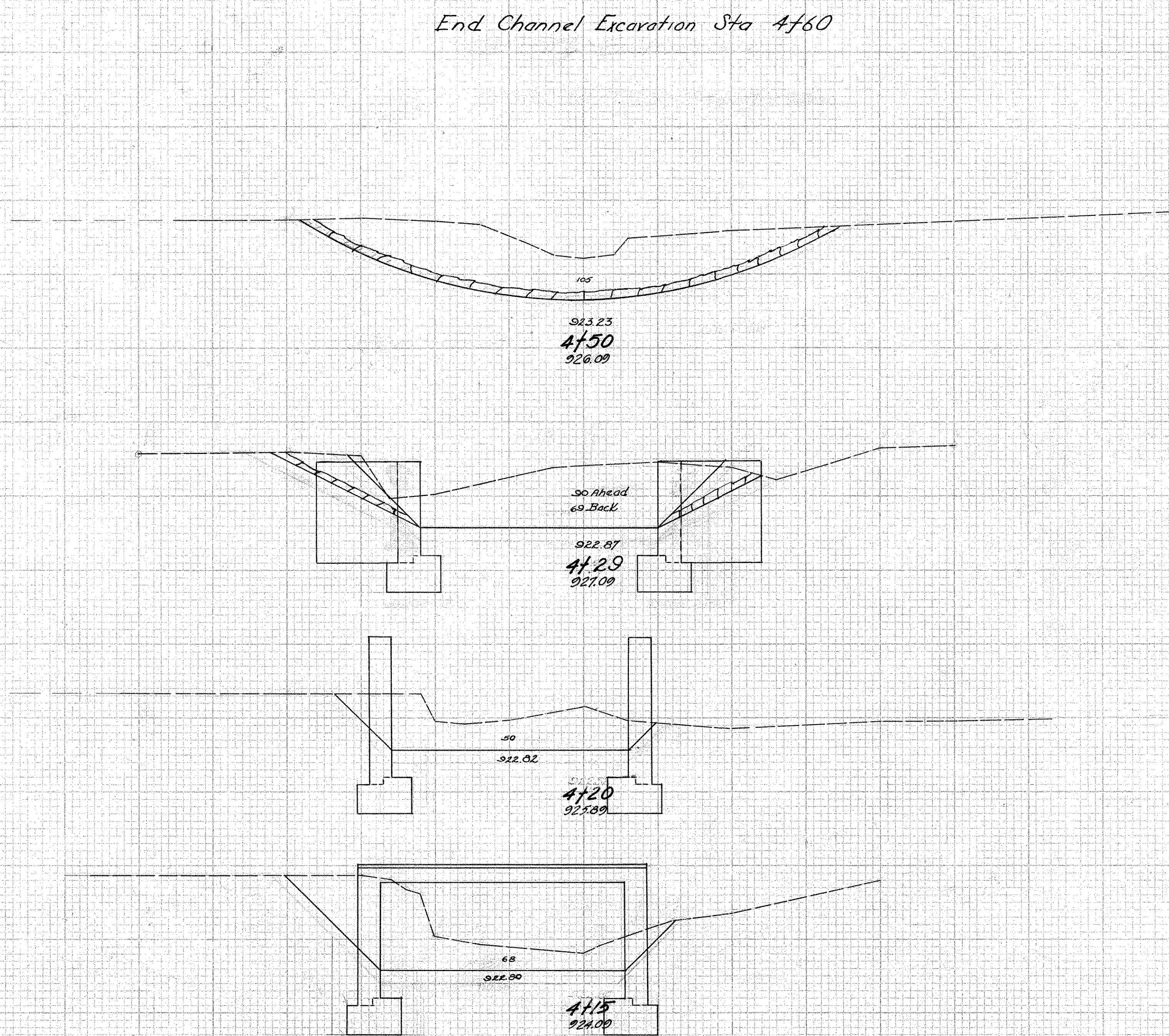
Ahead -
Back -



CHANNEL X-SECTIONS - STRUCTURE ~ STA. 966+65

(Encl. Checked 6/11/16-49)

MIAMI COUNTY
MIA-70-(17.20X18.26)
BRIDGE N^o. MI-70-183



END AREA		VOLUME	
CUT	FILL	CUT	FILL
Sq Yds	Sq Yds	Cu Yds	Cu Yds
0	0		
		19	
105	0		
		76	0
90	0		
69	0		
		20	0
		50	0
		11	0
68	0		
		14	0
85	0		

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H. I. F.	1950

16
18

MIAMI COUNTY
MIA-70-(17.20)(18.26)
BRIDGE NO. MI-70-173
1.3 MILES WEST ALCONY

DRAINAGE AREA 4.0 Sq. Mi.

EXISTING BRIDGE DATA

TYPE - PONY TRUSS CON. ABUTS.

SPAN - 37'-0" ROADWAY - 17'-6"

SKEW - 0°

CONDITION - Good

SUPERSTRUCTURE to be removed. SUB-STRUCTURE to remain in place.

PROPOSED STRUCTURE

TYPE: Steel beams and concrete deck on existing substructure

SPAN: 39'-0" c't'r. to c't'r. of br'gs.

ROADWAY: 24'-0" f't curbs with 1'-6" safety curbs.

LOADING: 5-15-40

SKEW: None

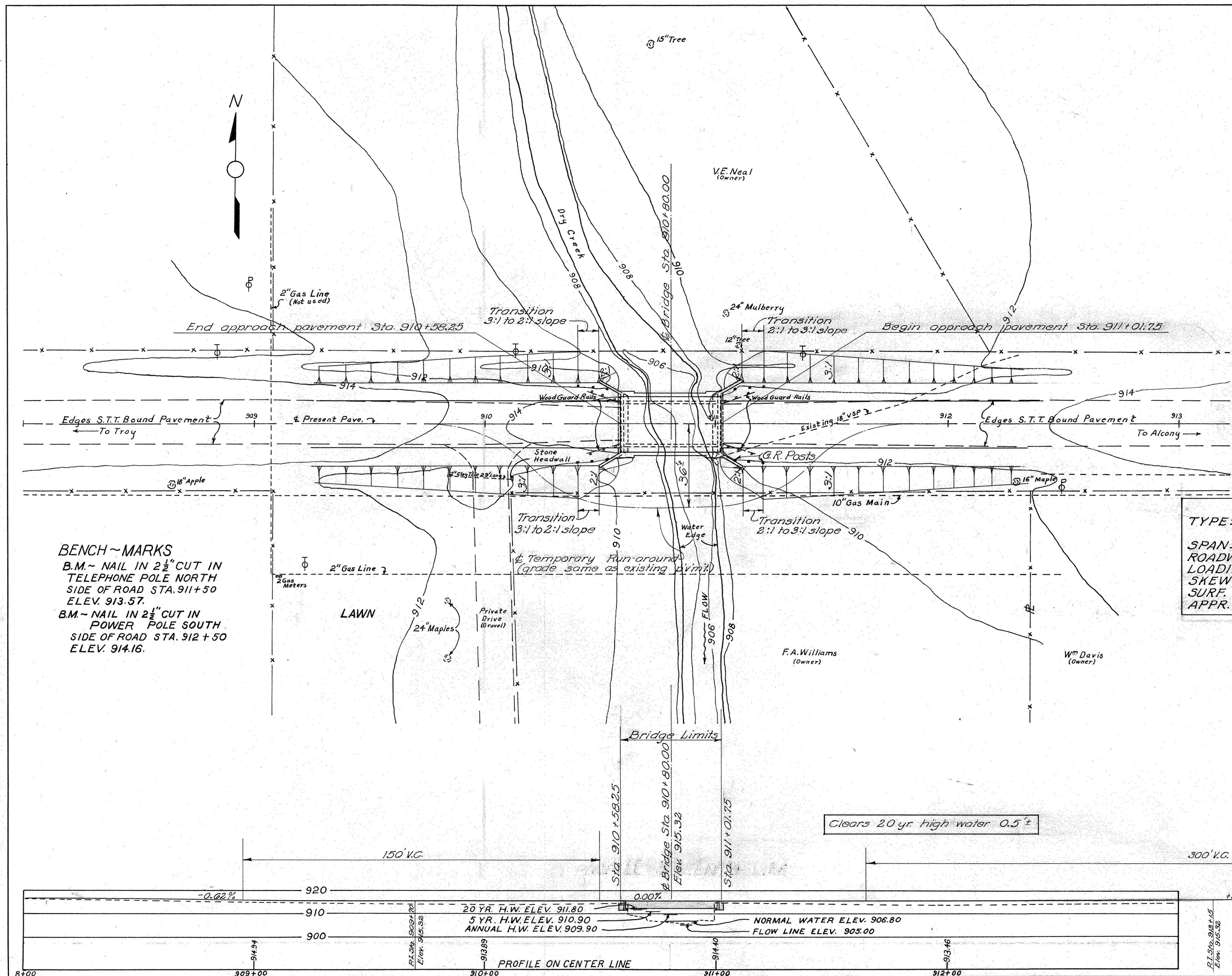
SURF. COURSE: Bituminous

APPR. SLABS: None

BENCH-MARKS

B.M. - NAIL IN 2 1/2" CUT IN TELEPHONE POLE NORTH SIDE OF ROAD STA. 911+50 ELEV. 913.57.

B.M. - NAIL IN 2 1/2" CUT IN POWER POLE SOUTH SIDE OF ROAD STA. 912+50 ELEV. 914.16.



STATE of OHIO DEPARTMENT of HIGHWAYS BUREAU of BRIDGES			
SITE PLAN BRIDGE NO. MI-70-173 OVER DRY CREEK MIAMI COUNTY MIA-70-(17.20)(18.26) Scale 1"=20' STA. 910+80.00			
PRESENT TOPO	PROPOSED	WORK	
SURVEYED	DRAWN	DRAWN	CHECKED
F.L.S.	J.L.J.	J.H.B.	E.V.A.
			11-7-49

