

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
JEF-152-0.01
JEFFERSON COUNTY
VILLAGE OF DILLONVALE

FED. RD. DIV.	STATE	FED. AID PROJECT	FISCAL YEAR	18
2	OHIO		1950	

JEF-152-0.01

CONVENTIONAL SIGNS

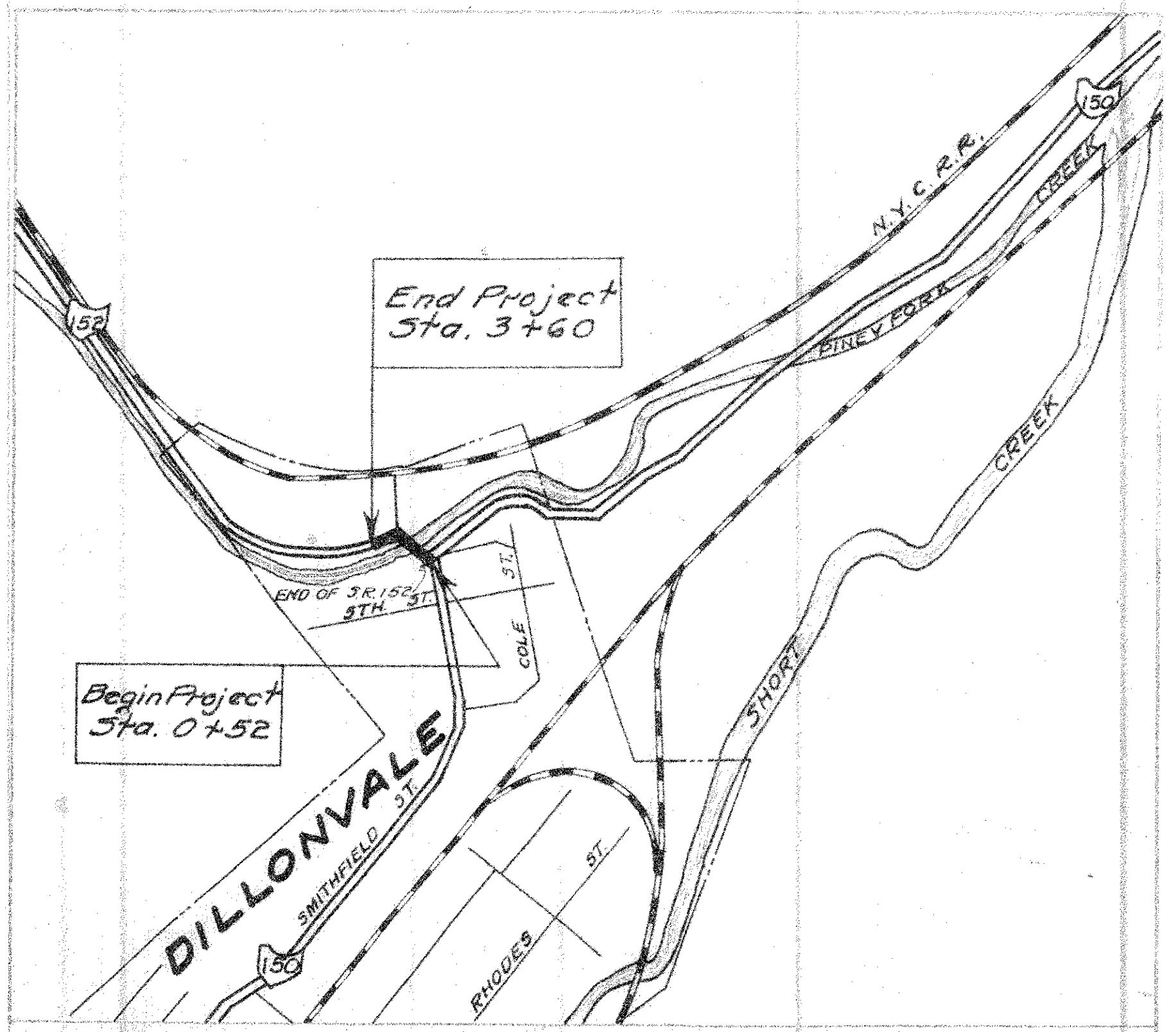
CORPORATION LINE	_____
PROPERTY LINE	_____
CENTER LINE	_____
FENCE LINE	_____
POLE LINE	_____
HEDGE	_____
RAILROADS	_____
Telephone	⊕
Power	⊕

INDEX OF SHEETS

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LINE DATA

BEGIN PROJECT	STA. 0+52
END PROJECT	STA. 3+60
NET LENGTH OF PROJECT	= 308 LIN. FT. OR 0.058 MILE
BEGIN WORK	STA. 0+00
END WORK	STA. 3+60
NET LENGTH OF WORK	= 360 LIN. FT. OR 0.068 MILE



LOCATION PLAN

Scale 1" = 1000'
PORTION TO BE IMPROVED
STATE HIGHWAYS
STREETS

SCALES

PLAN	1" = 50'
PROFILE - HORIZONTAL	1" = 50'
PROFILE - VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

The standard specifications of the State of Ohio, Department of Highways, 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 not require the closing to traffic of the highway and that provisions for maintenance and safety of traffic will be as set forth in these plans and estimates.

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

Approved Dwight W. Smith
Date 1-21-50 Division Deputy Director.

Approved _____
Date _____ Chief Engineer, Bureau of Maintenance.

Approved Richard O. Pitt
Date 2-8-50 Chief Engineer, Bureau of Bridges & R.R. Crossings.

Approved R. H. Polhemus
Date 2-9-50 Chief Engineer, Bureau of Location & Design.

Approved J. F. Shanklin
Date 2-9-50 First Asst. Director & Chief Engineer.

Approved M. Miller
Date 2-9-50 Director of Highways.

STANDARD DRAWINGS

G-8.07	2-1-47	L-2	10-1-45
I-8 C.B. No. 3-A	12-15-41		
I-12	3-15-48		
S-27 P.C. 3	2-20-45		

SUPPLEMENTAL SPECIFICATIONS

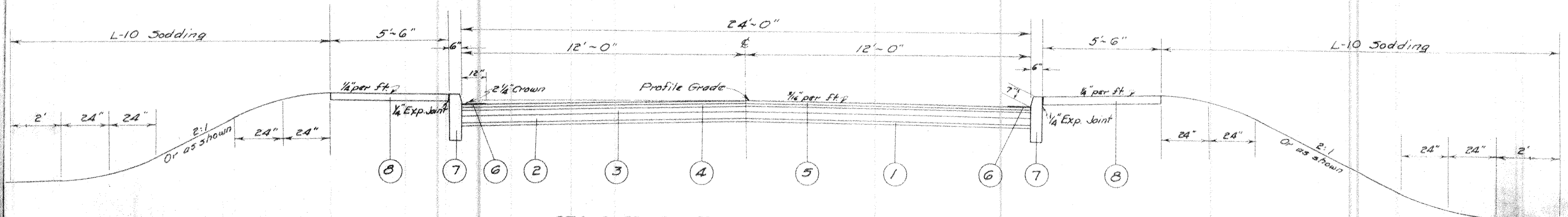
T-110	Rev. 8-3-36.
S-303	12-20-46.
31	6-13-49

File JEF-152-0.01
No. DATE OF LETTING
CONTRACT No. _____

TYPICAL SECTION

TYPE T-35

SCALE : 1" = 2'-0"



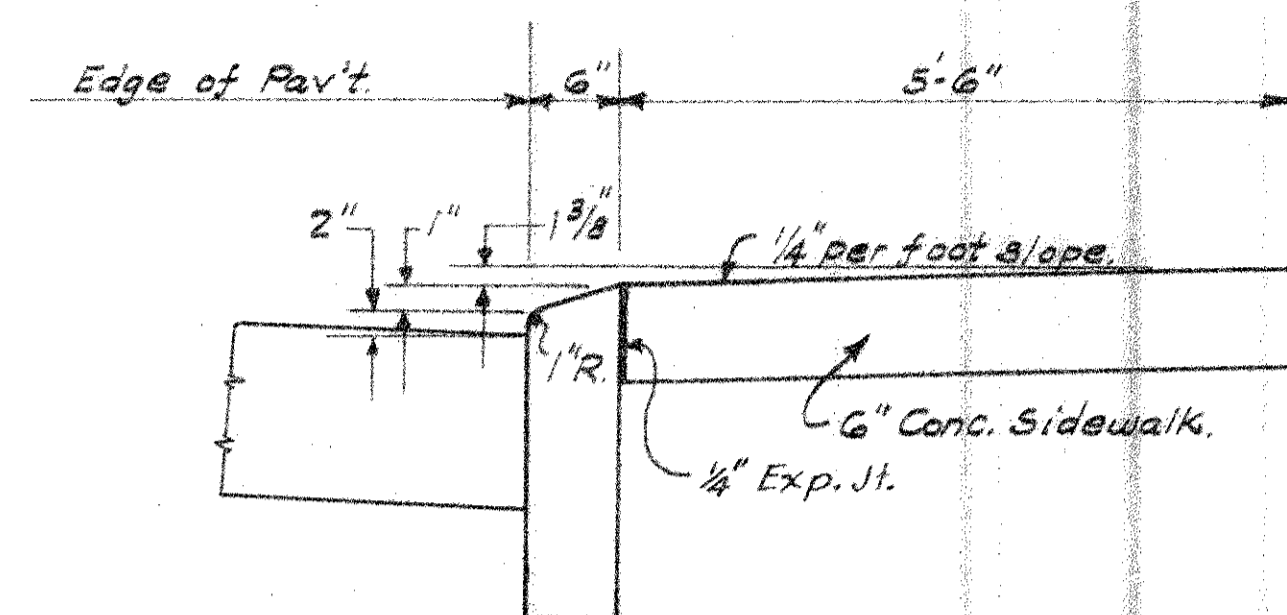
STA. 0+52 TO STA. 0+78.47 = 26.47 LIN. FT.
 STA. 1+57.53 TO STA. 3+60 = 202.47 LIN. FT.

NOTE: For Pavement Transition
 Details See Sheets 9 and 10.

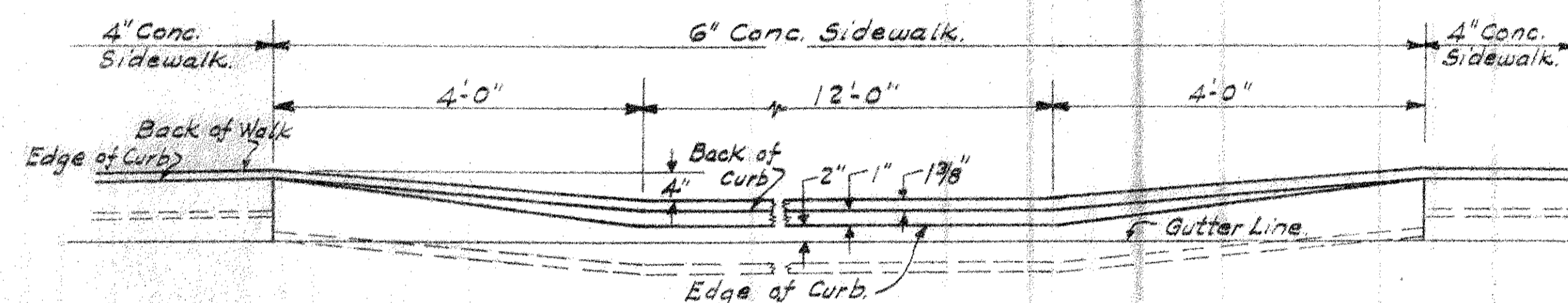
~ KEY ~

- ① I-10 1 1/2" Insulation Course.
- ② B-35-3" Asphaltic Concrete Base Course.
- ③ B-35-3" Asphaltic Concrete Base Course.
- ④ B-35-1 1/4" Asphaltic Concrete Leveling Course.
- ⑤ T-35-1 1/4" Asphaltic Concrete Surface Course, Type "A"
- ⑥ Gutter Seal.
- ⑦ 6" x 24" Concrete Curb.
- ⑧ 4" Concrete Sidewalk.

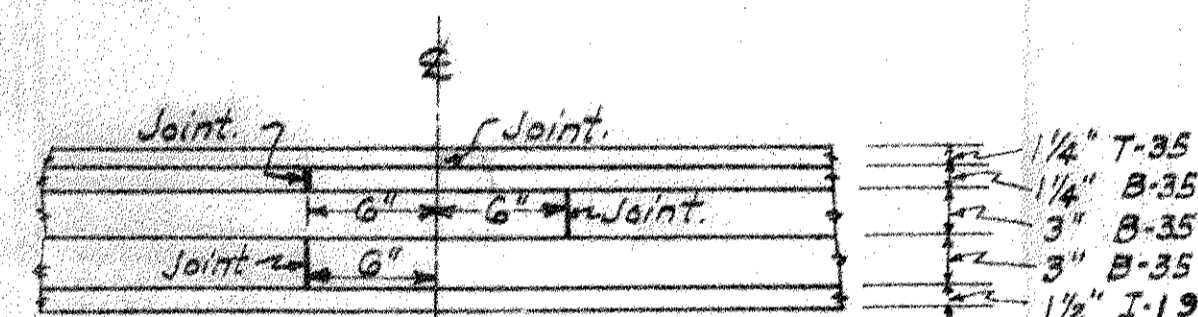
DETAILS AND GENERAL NOTES



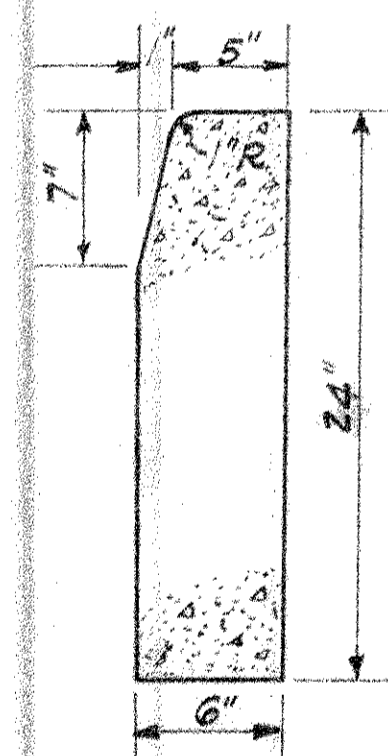
SECTION OF CURB AND SIDEWALK AT DRIVES



ELEVATION OF SIDEWALK AT DRIVES
(Cost to be included in price bid per Lin. Ft. of curb)



METHOD OF LAPPING LONGITUDINAL JOINTS



CURB DETAIL TYPE 6 (MOD)

CURVES:~ Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

BERMS AND SLOPES:~ Berms and slopes shall be finished in accordance with the typical sections except where otherwise shown on the cross sections. While the cross sections, as drawn, show straight lines and angles, in construction all corners shall be rounded as shown on the typical sections.

EMBANKMENT:~ In lieu of the requirements for full width construction under Sec. E-1.05 the embankment, where traffic is maintained, may be placed in part width construction.

UTILITY ADJUSTMENT:~ Any and all work required for Public or Private Utilities will be done by the respective owners, and the Contractor shall co-operate with the Utility Companies by arranging his work in such a manner that needless conflicts will be avoided.

FIELD HOUSE:~ The Contractor shall provide a suitable "Field Office" in accordance with Sec. 5-001(b) having a minimum of 120 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained during construction of this project.

I-17 GRADING REQUIREMENTS:~ The grading requirements for material passing the No. 200 mesh sieve, as specified in Sec. I-17.02 may be modified as follows:~

Passing the 200 mesh - 0% to 20% provided compaction is obtained in accordance with Sec. I-17.02.

BITUMINOUS CONCRETE BASE COURSE:~ Base course may be constructed of Type "A" surface course composition.

EXISTING WALKS AND STEPS:~ Unless otherwise shown on the plan, the existing walks and steps shall not be disturbed. Slopes shall be warped to fit walks and steps as directed by the Engineer. The Contractor shall exercise every precaution to prevent damage to lawns and shrubbery outside of the actual construction limits.

EXISTING GUARD RAIL:~ Existing guard rail specified for removal shall become the property of the Contractor and shall be disposed of by him. The remaining end post shall be braced as directed by the Engineer. Payment for this work shall be included in the price bid per lineal foot for Item Special - Removal and Disposal of Existing Guard Rail.

TRAFFIC:~ The Contractor shall maintain traffic at all times in accordance with the requirements of Sec. G-8.07. The item of "Maintaining Traffic" shall include furnishing lights, signs, barricades and watchmen necessary to secure the flow of traffic twenty-four (24) hours daily. Estimated quantities of Items T-10 Traffic Compacted Surface Course and M-10 Calcium Chloride have been listed in the General Summary. These materials are to be used for surfacing temporary traffic lanes and the temporary run-around approaches as directed by the Engineer.

SUMMARY OF QUANTITIES

CULVERTS							
Ref. No.	Station	See Sheet	Removal-Lin. Ft. of 12" Pipe	Excavation Cu. Yds.		Pipe for Roadway	Catch Basin
				Structure	15"	15"	No. 3-A
I-C	3+39	10	60	10	60		1
Totals			60	10	60		1

APPROACHES		
Total of Sheet No.	I-17 Aggr. Cu. Yds.	New Pavement Surface Sq. Yds.
	G	10
	* 2	
Totals		
	12	228

TREE REMOVAL		
Total of Sheet No.	Tree Removal Each	
	12"-18"	
G	4	
Total		
	4	

* 15% for Compaction.
 ° Carried to Pavement Calculations.

STEPS				
Total of Sheet No.	Concrete Steps Lin. Ft.	Pipe Railing Lin. Ft.	Removals	
			Existing Pavement Sq. Yds.	Existing Sidewalk Sq. Ft.
G	108	24.6	44	55
Totals				
	108	24.6	* 44	** 55

* Combined in General Summary.
 ** Combined in General Summary.

REMOVALS				
Total of Sheet No.	Existing Curb Lin. Ft.	Existing Sidewalk Sq. Ft.	Existing Pavement Sq. Yds.	Existing Guard Rail Lin. Ft.
	G	690	1826	772
Totals				
	690	**1826	*772	105

* Combined in General Summary.
 ** Combined in General Summary.

NEW SIDEWALK AND CURB			
Total of Sheet No.	New Sidewalk Sq. Ft.		New Curb Lin. Ft.
	4"	6"	Straight/Circular
G	2842	220	535 88
Totals			
	2842	220	535 88

EARTHWORK AND SODDING						
Station		Roadway Excavation Cu. Yds.	Embankment Cu. Yds.	Embankment +20% Cu. Yds.	Sodding Sq. Yds.	2" Topsoil Sq. Yds.
From	To					
0+00	3+60	16	819	983	860	860
Totals						
		16	819	983	860	860

Borrow : $983 - 16 = 967$ Cu. Yds.
 Water : $819 \times 5 \div 1000 = 4$ M-Gals.

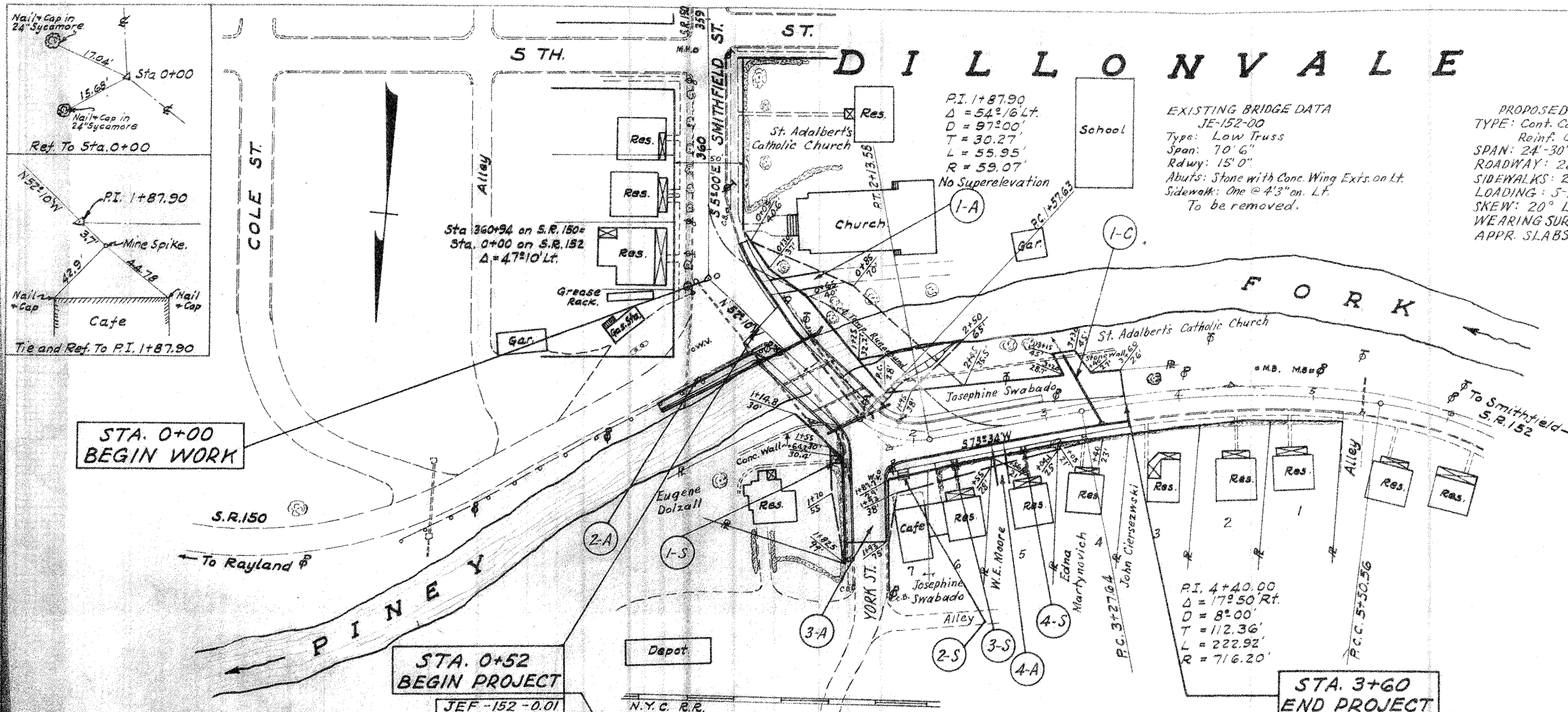
SUMMARY OF QUANTITIES

PAVEMENT CALCULATIONS

Sta. 0+00 to Sta. 0+52	=	54 X 2 ÷ 9 =	12	Sq. Yds.	
Sta. 0+52 to Sta. 0+78.47	=	26.47 X 342 Avg. ÷ 9 =	101	Sq. Yds.	
Sta. 1+57.53 to Sta. 2+13.58	=	56.05 X 26 Avg. ÷ 9 =	162	Sq. Yds.	
Sta. 2+13.58 to Sta. 3+00	=	86.42 X 24 ÷ 9 =	230	Sq. Yds.	
Sta. 3+00 to Sta. 3+60	=	60 X 21 Avg. ÷ 9 =	140	Sq. Yds.	
Approaches	=		228	Sq. Yds.	
Total Area of Pavement	=				873 Sq. Yds.
Item I-19					
Area	=		873	Sq. Yds.	
Extra Area Sta. 3+00 to Sta. 3+60 (See Sh. 10)	=	60 X 0.5 ÷ 9 =	4	Sq. Yds.	
Total I-19					877 Sq. Yds.
Item B-35 Base Course					
Area	=		873	Sq. Yds.	
Extra Area Sta. 3+00 to Sta. 3+60	=	60 X 0.375 ÷ 9 =	3	Sq. Yds.	
Total Area	=		876	Sq. Yds.	
Total Base Course	=	876 X 6 ÷ 36			146 Cu. Yds.
Item B-35 Leveling Course					
	=	873 X 1/4 ÷ 36			30 Cu. Yds.
Item T-35 Surface Course					
	=	873 X 1/4 ÷ 36			30 Cu. Yds.

GENERAL SUMMARY			
ITEM	QUANTITY	UNIT	DESCRIPTION
ROADWAY			
E-1	16	Cu. Yds.	Roadway Excavation.
E-4	967	Cu. Yds.	Borrow.
E-8	816	Sq. Yds.	Removal and Disposal of Existing Pavement.
E-8	690	Lin. Ft.	Removal and Disposal of Existing Curb.
E-8	1881	Sq. Ft.	Removal and Disposal of Existing Sidewalk.
E-9	4	Each	Removal of Trees and Stumps.
E-11	4	M. Gals.	Water.
E-12	60	Lin. Ft.	12" Pipe Removed and Disposed of.
I-13	108	Lin. Ft.	Concrete Steps.
I-13	2842	Sq. Ft.	4" Concrete Sidewalks.
I-13	220	Sq. Ft.	6" Concrete Sidewalks.
Special	105	Lin. Ft.	Removal and Disposal of Existing Guard Rail, as per Plan.
I-17	12	Cu. Yds.	Side Approaches, Mail Box Turnouts and Berm Material.
S-14	25	Lin. Ft.	Railing (2" Extra Strength Wrought Iron Pipe)
L-2	860	Sq. Yds.	2" Topsoil Furnished and Placed
L-10	860	Sq. Yds.	Sodding.
M-10	4	Tons	Calcium Chloride for Maintaining Traffic.
T-110	200	Cu. Yds.	Traffic Compacted Surface Course for Maintaining Traffic.
DRAINAGE			
E-2	10	Cu. Yds.	Excavation for Structures.
I-8	1	Each	Std. No. 3-A Catch Basin.
S-27	60	Lin. Ft.	15" Pipe for Roadway Culvert.
PAVEMENT			
I-19	877	Sq. Yds.	1 1/4" Insulation Course.
B-35	146	Cu. Yds.	Asphaltic Concrete Base Course, (70-80 or 85-100)
B-35	30	Cu. Yds.	Asphaltic Concrete Leveling Course, (70-80 or 85-100)
T-35	30	Cu. Yds.	Asphaltic Concrete Surface Course, Type A, (70-80 or 85-100)
I-12	623	Lin. Ft.	Standard Type 6 Concrete Curb, Modified As Per Plan
STRUCTURE OVER 20' SPAN - BRIDGE No JE-152-00 See Sheet No. 14 for Quantities.			

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PROPOSED STRUCTURE
 TYPE: Cont. Conc. Slab on Reinf. Conc. Substructure.
 SPAN: 24'-30"-24' 7/8" Bearings.
 ROADWAY: 28'0"
 SIDEWALKS: 2 @ 6'0"
 LOADING: 5-15-26.
 SKEW: 20° L.F.
 WEARING SURF: 3/4" Mono. Conc.
 APPR. SLABS: None.

EXISTING BRIDGE DATA
 JE-152-00
 Type: Low Truss
 Span: 70'6"
 Rdwy: 15'0"
 Abut: Stone with Conc. Wing Exts. on Lt.
 Sidewalk: One @ 4'3" on L.F.
 To be removed.

APPROACHES

Ref. No.	Station	Side	See Sheet	I-17 Aggr. Cu. Yds.	New Pavt. Surface Sq. Yds.	Depress. & Sidewalk Lin. Ft.
1-A	0+40	Lt.	7	6		20
2-A	0+52	Rt.	7#9		16	
3-A	1+71	Rt.	8#10		212	
4-A	2+63	Rt.	8	4		20
Totals				10	228	

CULVERTS

Ref. No.	Station	See Sheet	Removals		New Work	
			Type	Length	Type	Length
1-C	3+39	10	V.S.P.	12"	60'	Pipe 15" 60'

STEPS

Ref. No.	Station	Side	See Sheet	Removals		New Work	
				Conc. Steps Lin. Ft.	Pipe Railing Lin. Ft.	Pavt. Sq. Yds.	Walk Sq. Ft.
1-S	*0+07.5	Rt.	11	16			12
2-S	1+75	Rt.	11	48	44		
3-S	2+27	Rt.	11	28	134		24
4-S	2+78	Rt.	11	16			19
Totals				108	246	44	55

* on York St.

TREE REMOVAL

From Sta.	To Sta.	Side	See Sheet	Each
0+35		Lt.		1
0+80	0+85	Lt.		2
3+05		Rt.		1
Total				4

REMOVALS

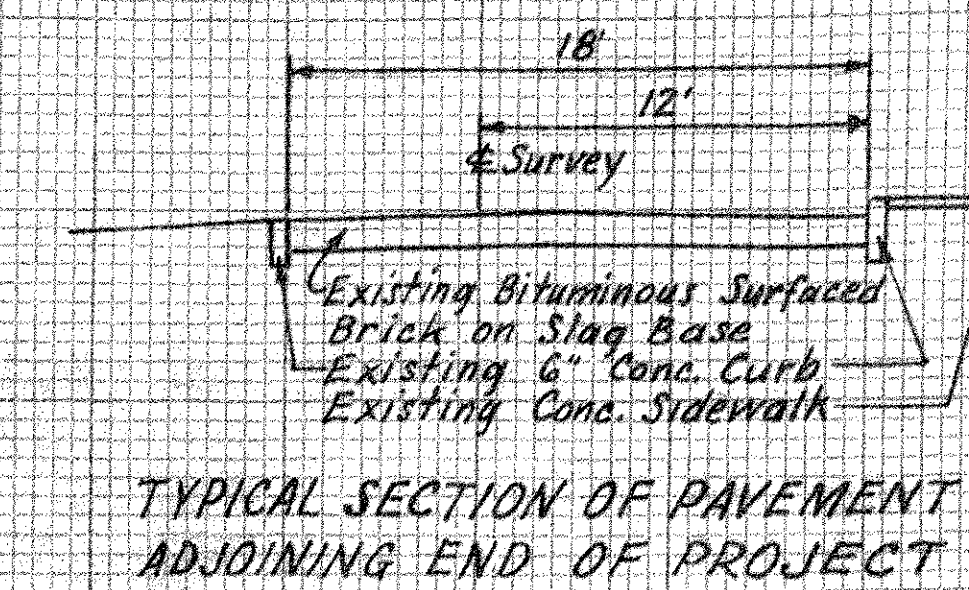
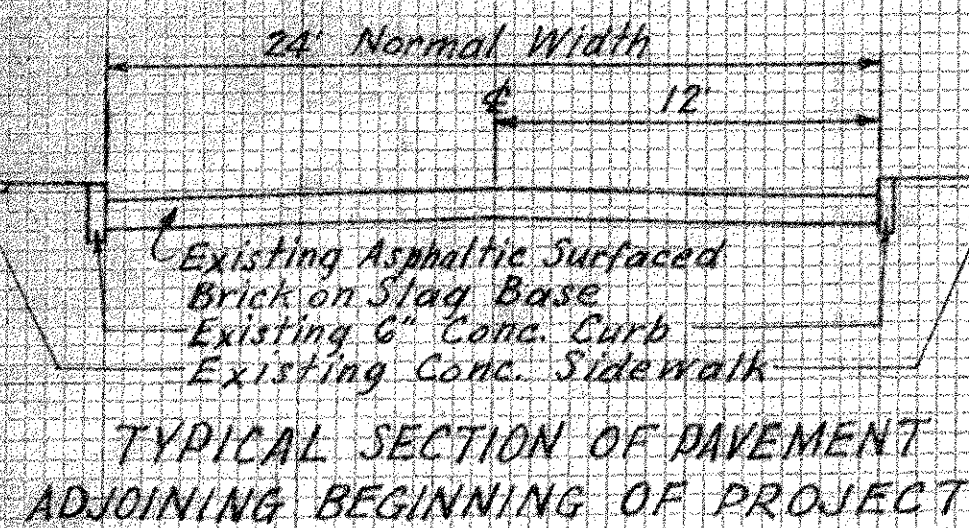
Station From	Station To	Side	See Sheet	Curb Lin. Ft.	Walk Sq. Ft.	Pavt. Sq. Yds.	G. Rail Lin. Ft.
0+00	0+83	Lt.	9	86	470		
0+43	0+78	Rt.	9	80			
1+57	3+60	Lt.	10	198			
1+50	*0+72	Rt.	10	88	344		
*0+72	3+60	Rt.	10	238			
1+86	3+60	Rt.	10		1006		
3+24	3+27	Rt.	6		6		
0+00	0+52	Lt.	9			12	
0+52	0+78	Rt.	9			83	
1+57	3+60	Rt.	10			448	
*0+00	*0+72	Rt.	10			229	
0+35	0+77	Rt.	6				105
Totals				690	1826	772	105

* on York St.

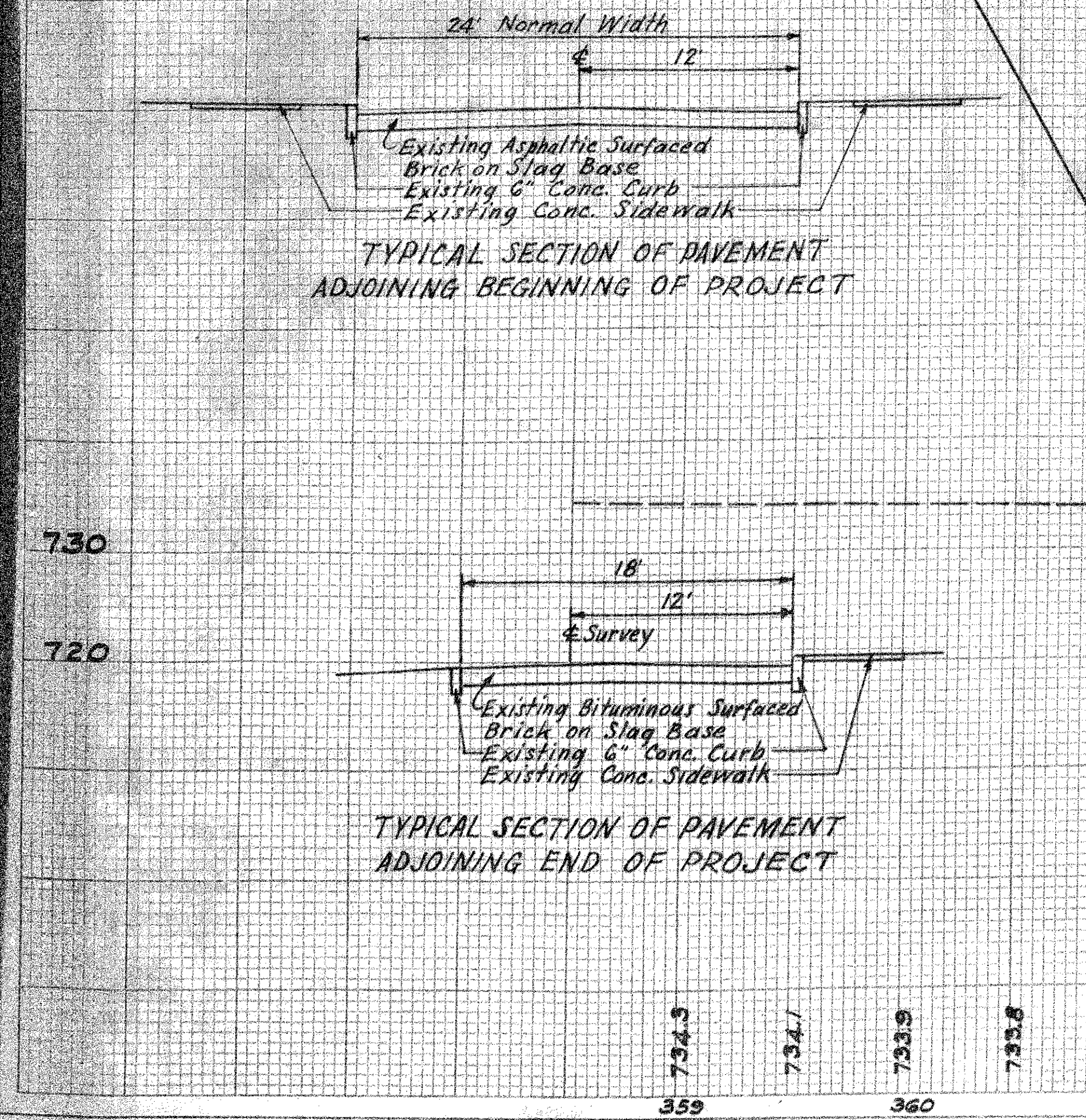
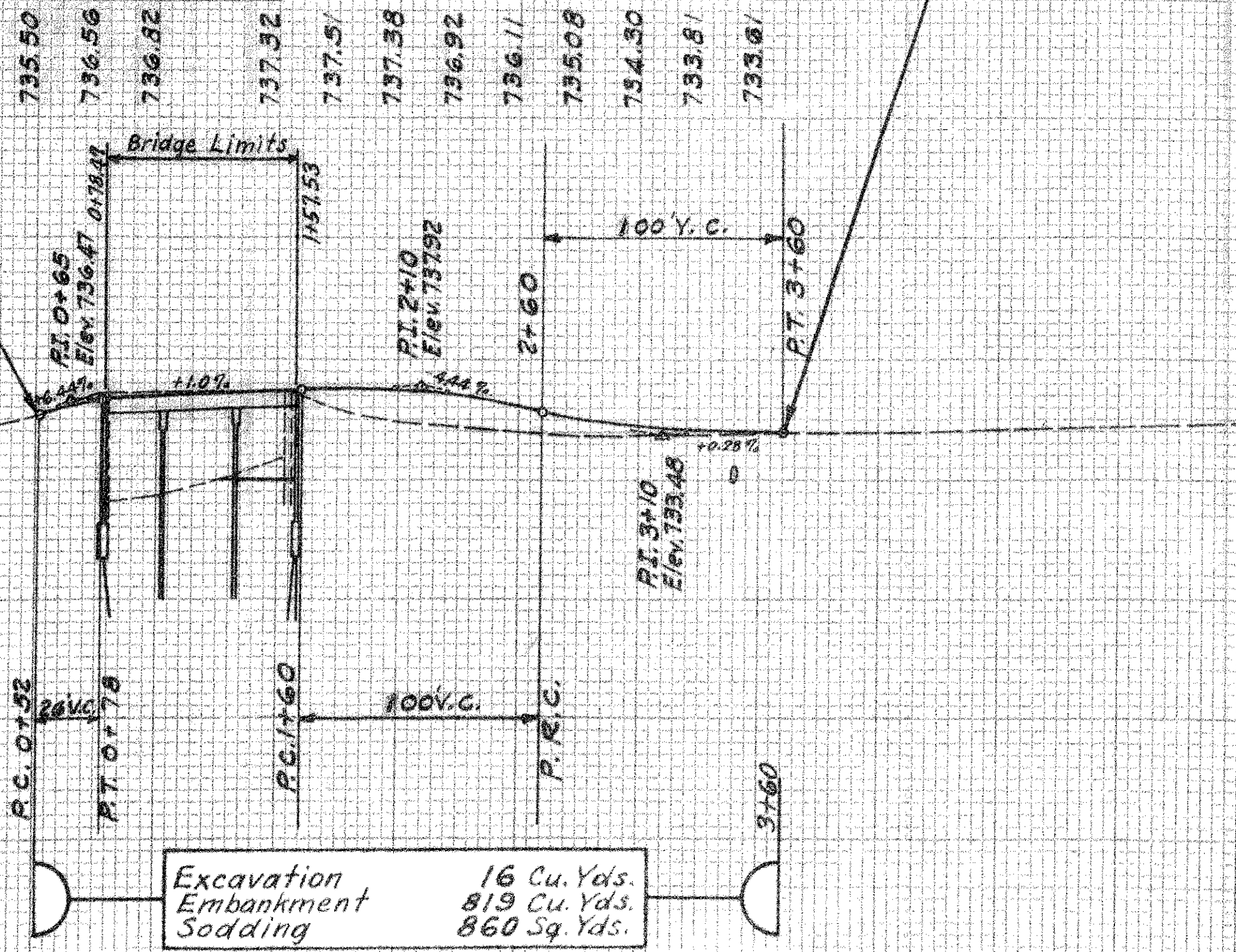
NEW SIDEWALK AND CURB

Station From	Station To	Side	See Sheet	Sidewalk 4" Sq. Ft.	Curb 6" Str. Lin. Ft.	Curb 6" Circ. Lin. Ft.
0+00	0+83	Lt.	9	360	86	
0+37	0+73	Rt.	9	472	73	17
1+63	3+00	Lt.	10	668	88	37
1+52	*0+72	Rt.	10	465	72	14
*0+72	3+60	Rt.	10	871	216	20
3+24	3+27	Rt.	6	6		
Totals				2842	220	58

* on York St.



B.M. Sta 0+71
 +Cut on S.E. Cor. Abut.
 7' Rt. &
 Elev. 735.91



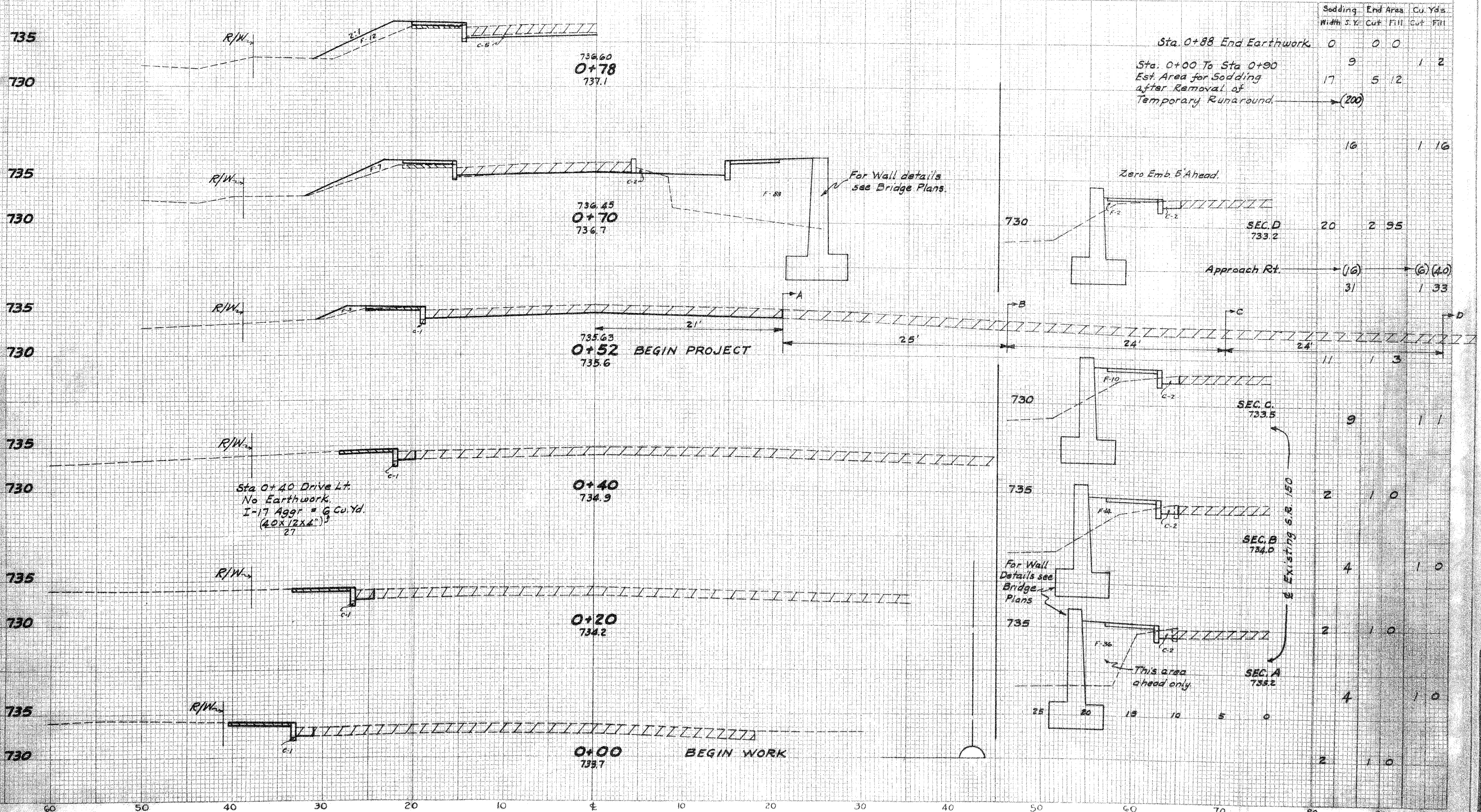
60 50 40 30 20 10 0 10 20 30 40 50 60

BRIDGE

RD. NO. DIVISION	STATE	PROJECT	TYPE FONDS
2	OHIO		H.I.

7
18

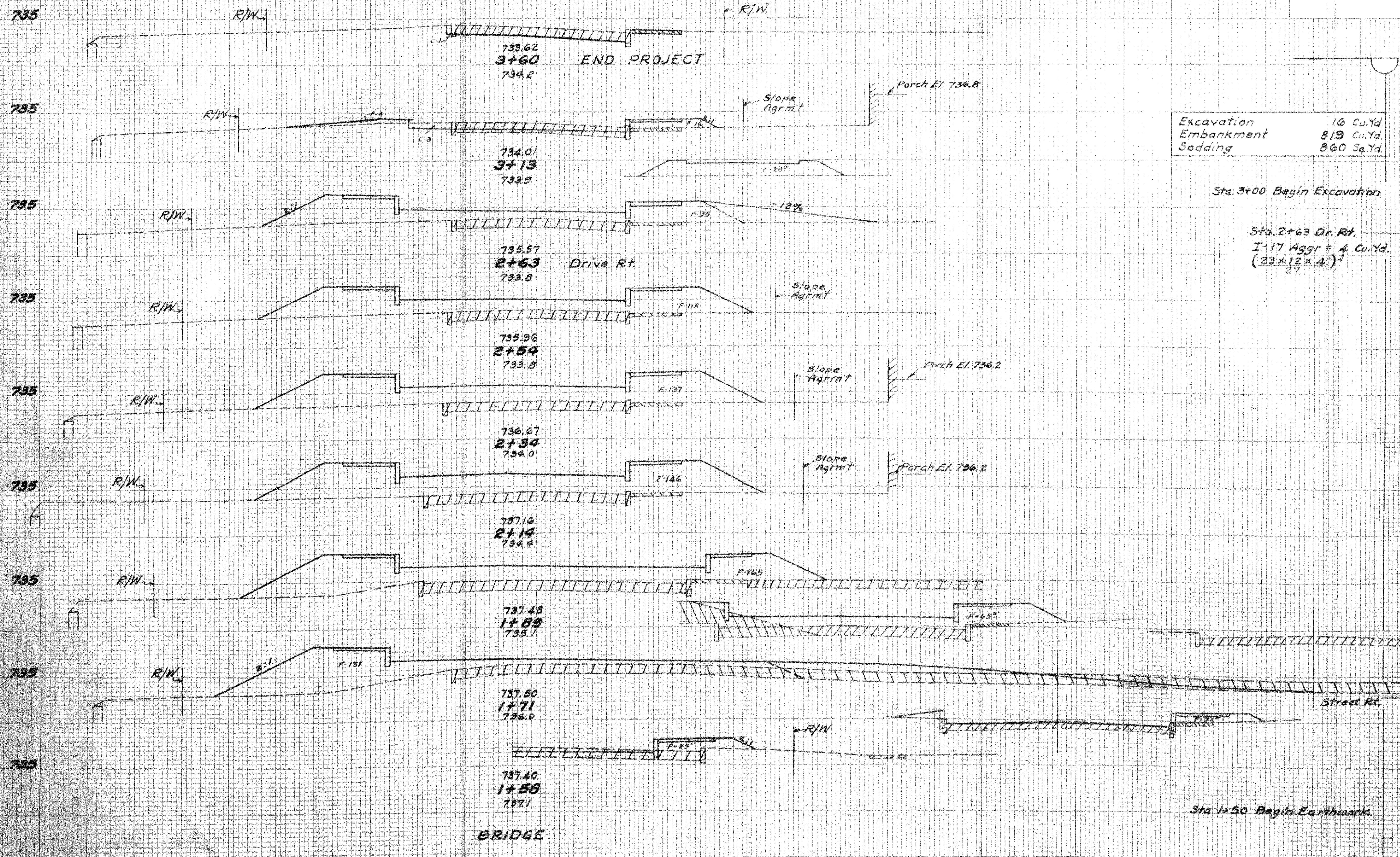
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Width S.Y.	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill

Sta. 0+88 End Earthwork	0	0	0	0
Sta. 0+00 To Sta 0+90	9		1	2
Est. Area for Sodding after Removal of Temporary Runaround	17	5	12	
			(200)	
	16		1	16
SEC. D	20	2	95	
Approach Rt.	(16)		(6) (40)	
	31		1	33
			11	1
SEC. C.	9		1	1
	2		1	0
SEC. B	4		1	0
	2		1	0
SEC. A	4		1	0
	2		1	0

STA. 0+00 TO STA. 0+78



Excavation 16 Cu.Yd.
 Embankment 819 Cu.Yd.
 Sodding 860 Sq.Yd.

Width	End Area		Cu. Yds.	
	Sq. Y.	Cut	Fill	Cut
4	1	0		
68			3	17
22	3	20		
128	0		0	106
(15)			0	(10)
24	0		0	95
25			0	36
26	0		0	118
60			0	94
28	0		0	137
62			0	105
28	0		0	146
75			0	144
26	0		0	165
44			0	99
(70)			0	(74)
18	0		0	131
20			0	38
10	0		0	25
0	4	0	0	4

Sta. 3+00 Begin Excavation

Sta. 2+63 Dr. Rt.
 I-17 Aggr = 4 Cu.Yd.
 (23 x 12 x 4) / 27

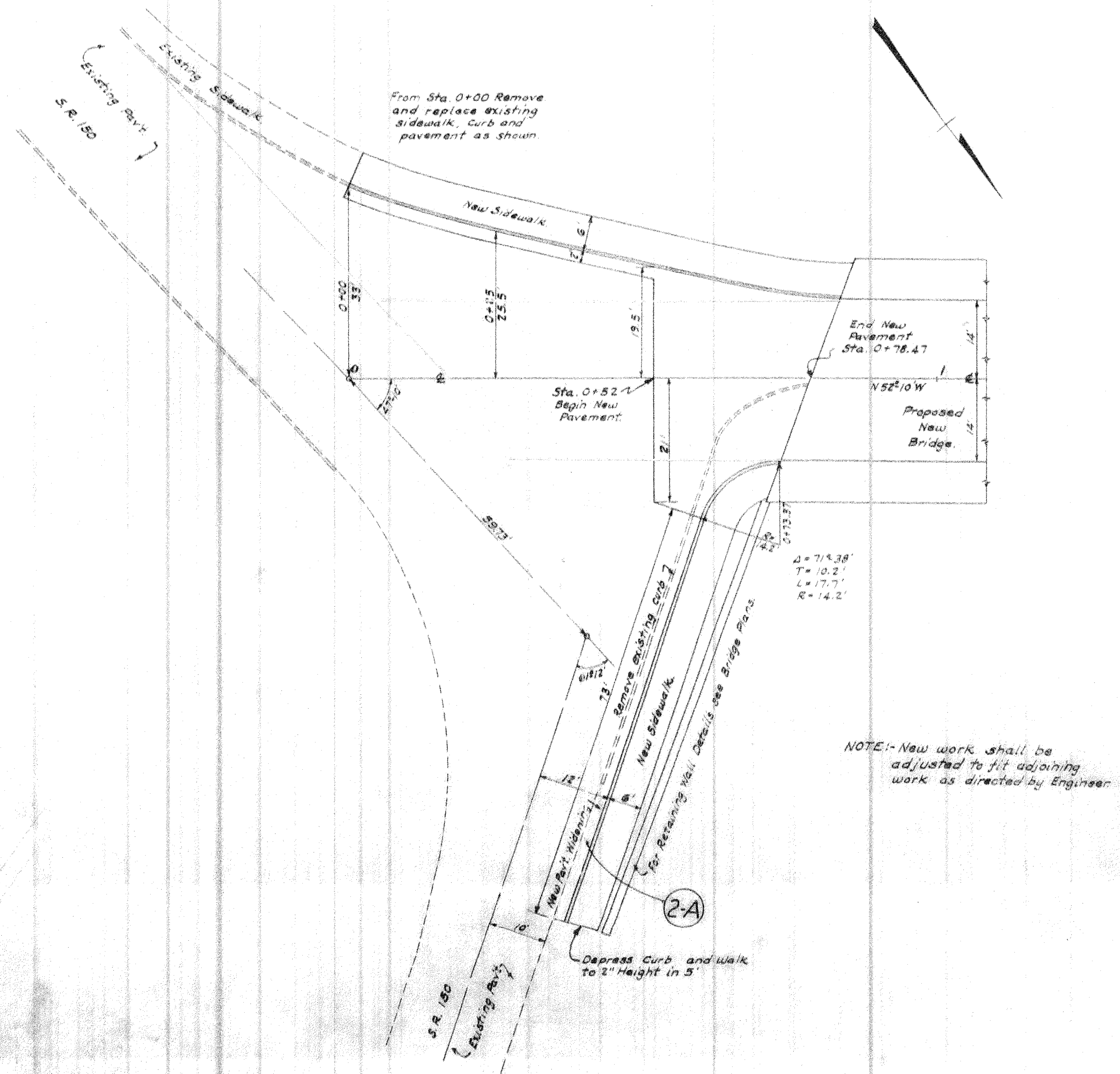
Sta. 1+50 Begin Earthworks

PAVEMENT DETAILS STA. 0+00 TO STA. 0+79
SCALE 1"=10'

TD. NO.	STATE	PROJECT	FIG. NO.
2	OHIO		9

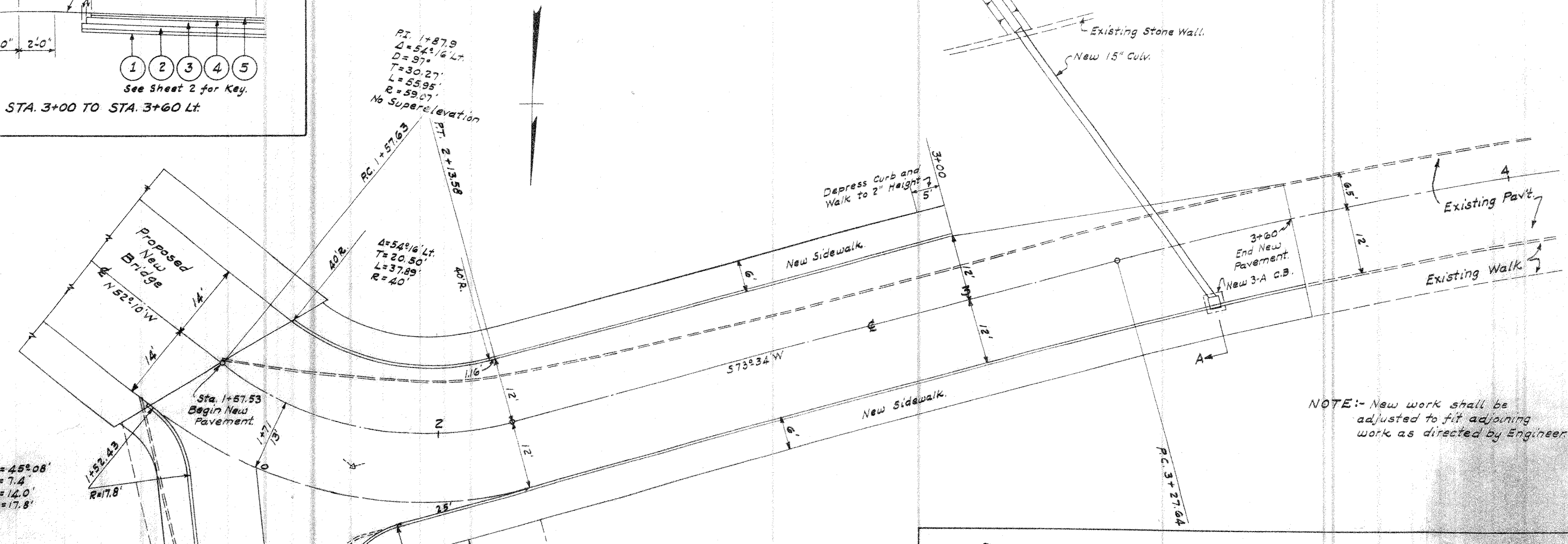
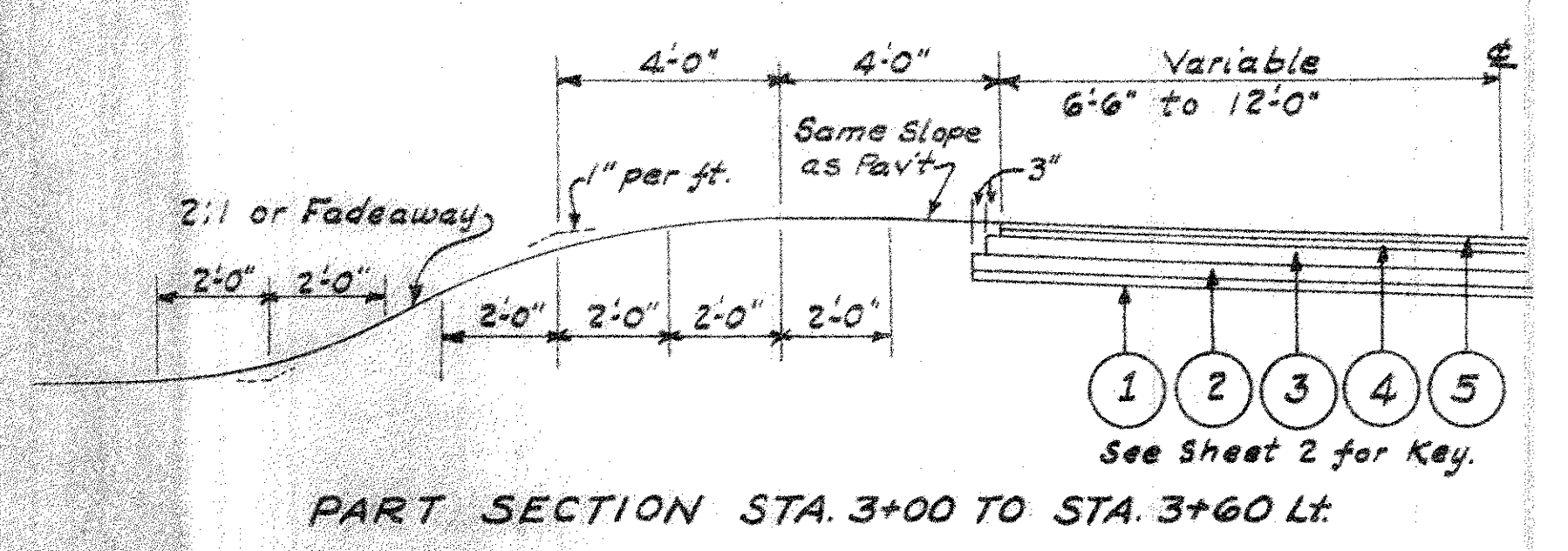
18

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PAVEMENT DETAILS STA. 1+50 TO STA. 3+60
SCALE: 1"=10'

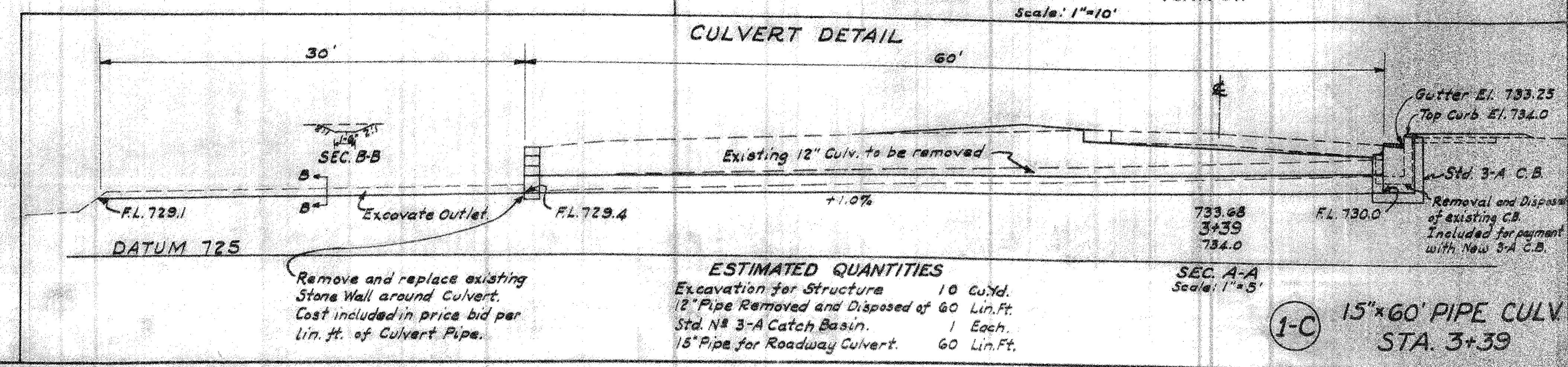
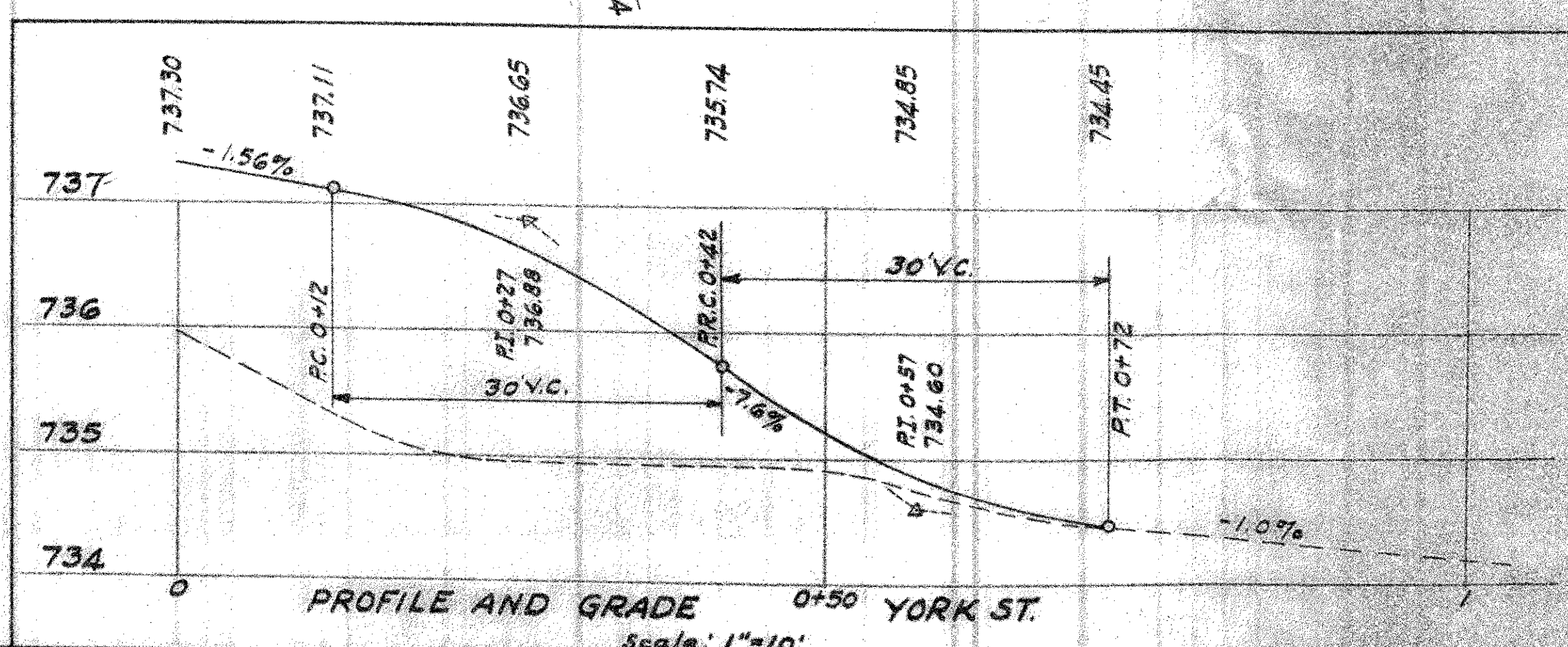
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NOTE:- New work shall be adjusted to fit adjoining work as directed by Engineer

CURVE TABLE							
P.C. 3+27.64			D= 8° Rt.		P.C.C. 5+50.56		
LEFT					RIGHT		
Edge Pav't.	Add Super	Width	Station	Profile Grade	Width	Deduct Crown	Edge Pav't.
736.73	0.00	12'	2+25	736.92	12'	0.19'	736.73
736.51	0.03		+34	736.67			736.48
736.06	0.14		+50	736.11			735.92
735.94	0.17		+54	735.96			735.77
735.75	0.24		+60	735.70			735.51
735.65	0.27		+63	735.57			735.38
735.23	0.34		+75	735.08			734.89
734.58	0.47	12'	3+00	734.30			734.11
734.40	0.52	10.8'	+10	734.07			733.88
734.28	0.53	10.5'	+13	734.01			733.82
734.28	0.63	9.5'	+25	733.81			733.62
734.20	0.75	7.7'	+43	733.64			733.45
734.20	0.78	7.2'	+50	733.61			733.42
734.23	0.80	6.5'	+60	733.62	12'	0.19'	733.43

NOTE:- Superelevation has been calculated to fit adjoining pavement at Sta. 3+60



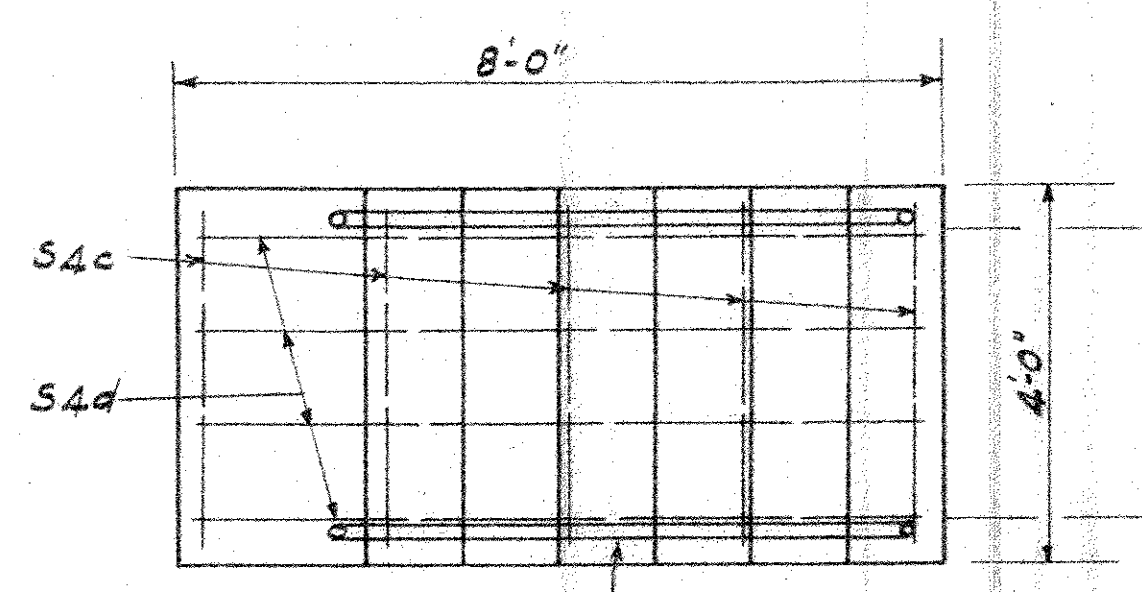
Remove and replace existing Stone Wall around Culvert. Cost included in price bid per lin. ft. of Culvert Pipe.

ESTIMATED QUANTITIES
Excavation for Structure 10 Cu.Yd.
12" Pipe Removed and Disposed of 60 Lin.Ft.
Std. N# 3-A Catch Basin. 1 Each.
15" Pipe for Roadway Culvert. 60 Lin.Ft.

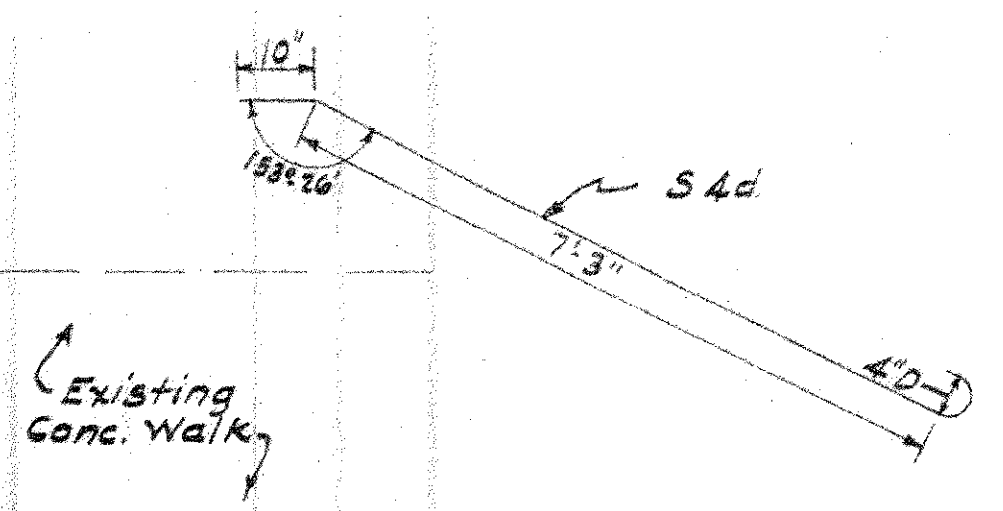
SEC. A-A
Scale: 1"=5'

1-C 15"X60' PIPE CULV
STA. 3+39

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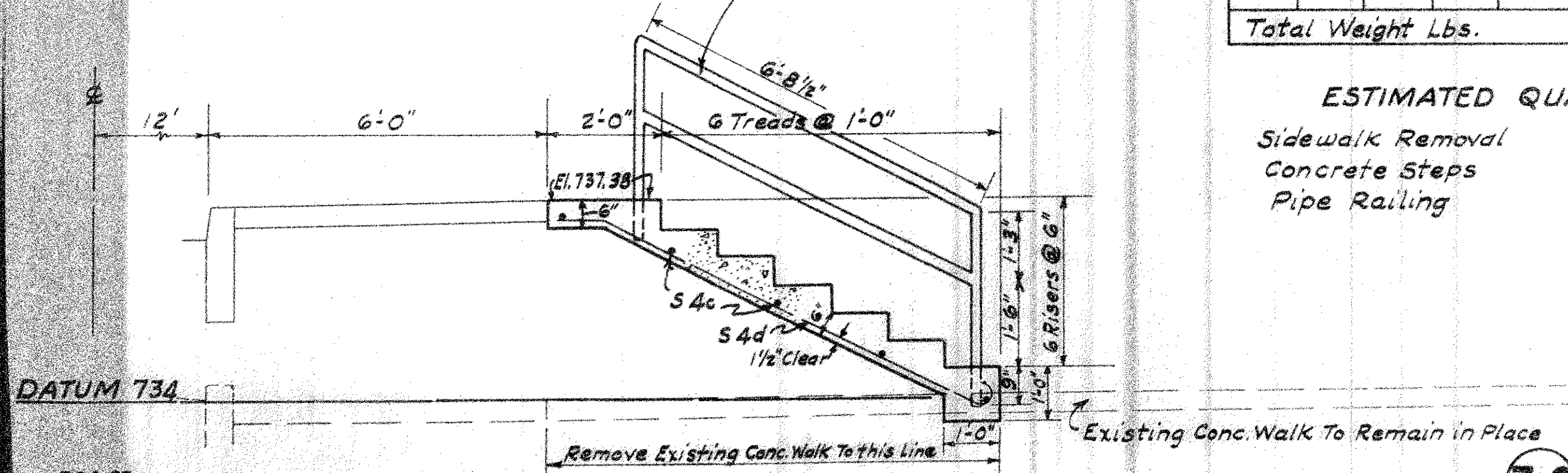


PLAN
Scale 1/2"=1'-0"



STEEL LIST						
Mark	Shape	Space	Size	Number	Length	Weight
S4c	Str.	Shown	5/8"φ	5	3'-6"	18
S4d	Bent	1'-0"	5/8"φ	4	9'-0"	38
Total Weight Lbs.						56

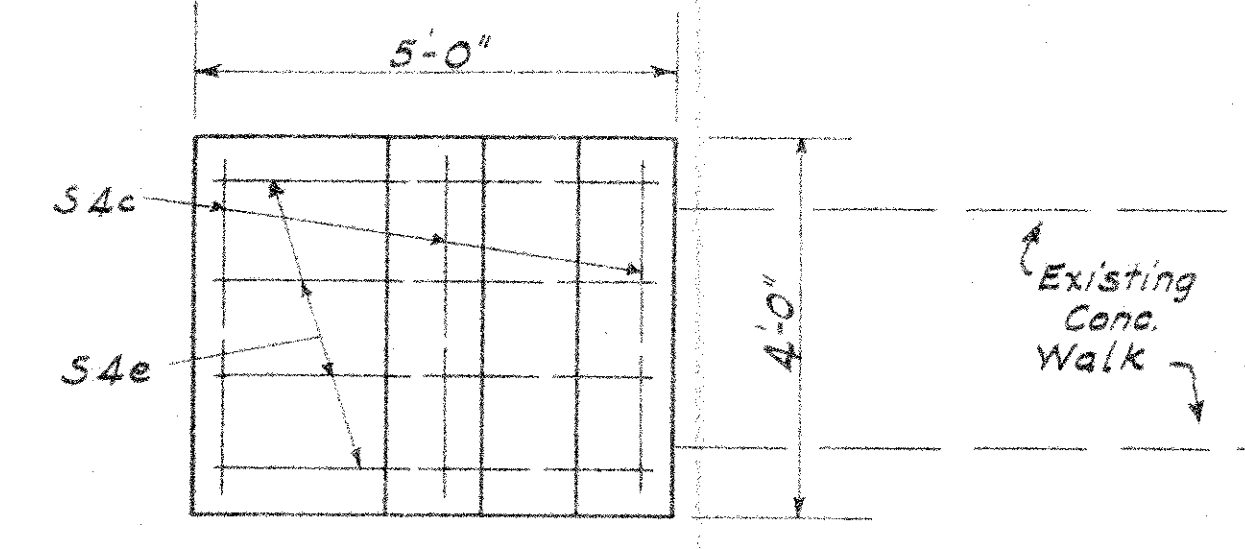
ESTIMATED QUANTITIES	
Sidewalk Removal	24 Sq. Ft.
Concrete Steps	28 Lin. Ft.
Pipe Railing	13.4 Lin. Ft.



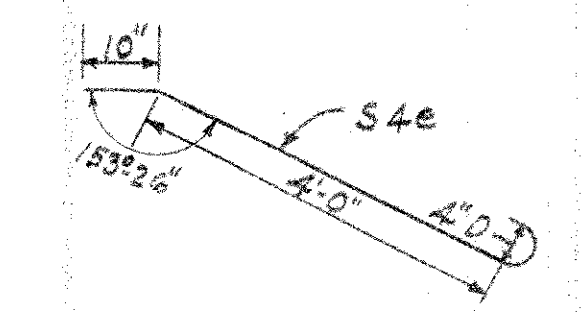
CROSS SECTION
Scale 1/2"=1'-0"

3-S STEPS RT. STA. 2+27

736.87
2+27
734.1

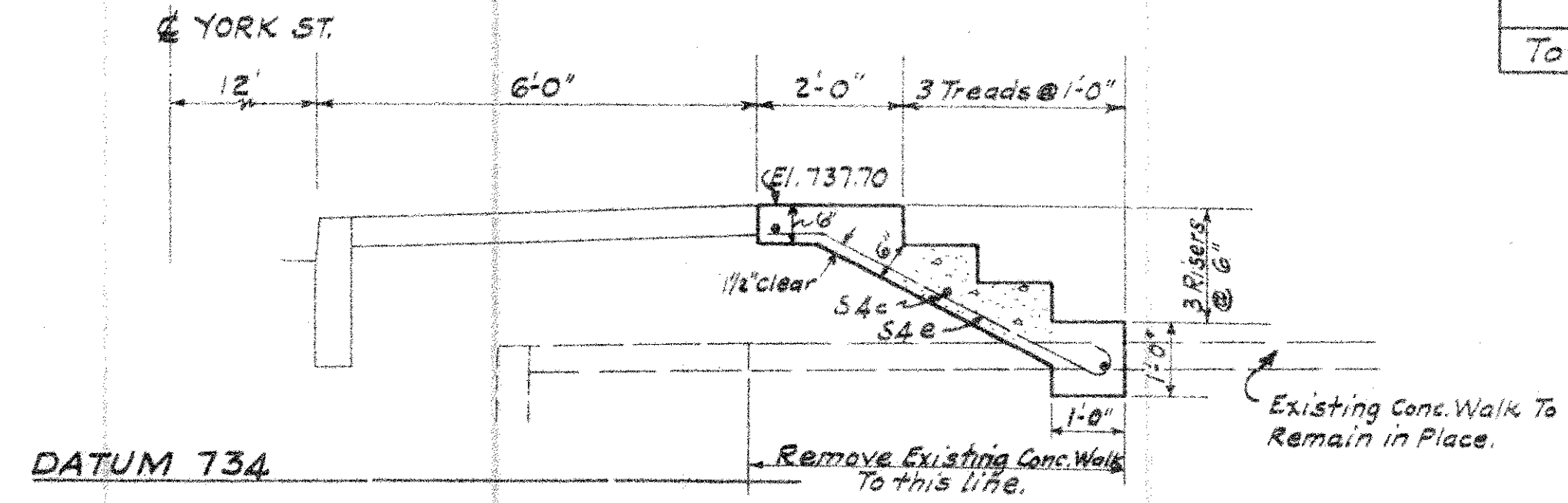


PLAN
Scale 1/2"=1'-0"



STEEL LIST						
Mark	Shape	Space	Size	Number	Length	Weight
S4c	Str.	Shown	5/8"φ	3	3'-6"	11
S4e	Bent	1'-0"	5/8"φ	4	4'-9"	20
RE4	Str.		5/8"φ	2	2'-6"	5
Total Weight Lbs.						36

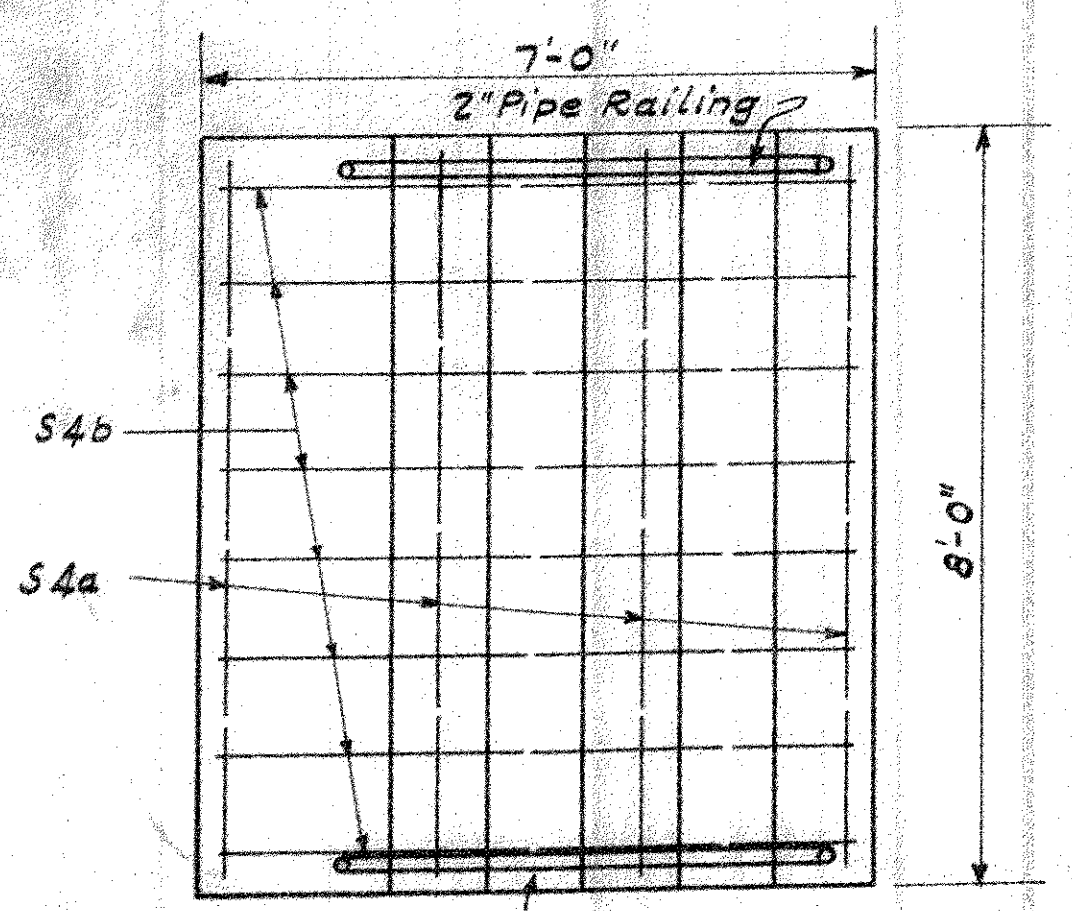
ESTIMATED QUANTITIES	
Sidewalk Removal	12 Sq. Ft.
Concrete Steps	16 Lin. Ft.



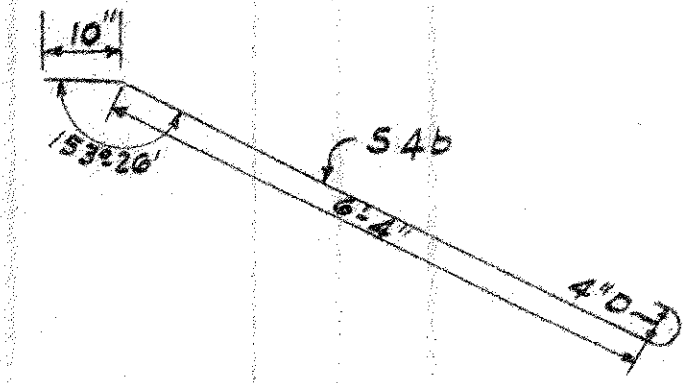
CROSS SECTION
Scale 1/2"=1'-0"

737.18
0+07.5 on YORK ST.
735.6

1-S STEPS RT. STA. 0+07.5 ON YORK ST.

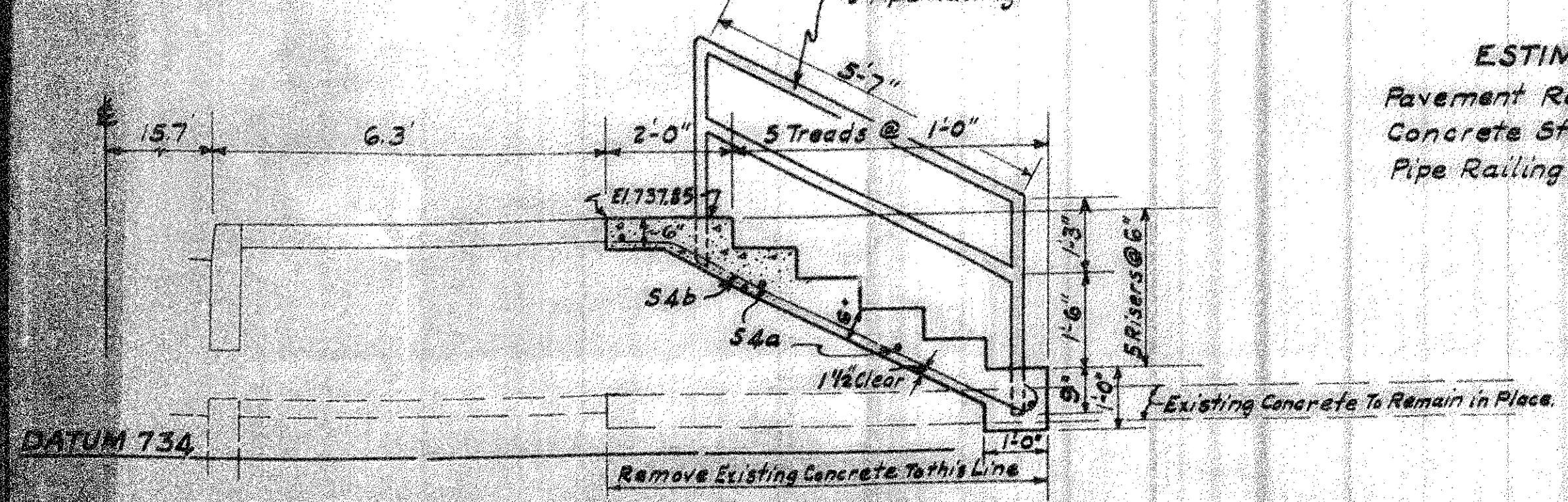


PLAN
Scale 1/2"=1'-0"



STEEL LIST						
Mark	Shape	Space	Size	Number	Length	Weight
S4a	Str.	Shown	5/8"φ	4	7'-6"	31
S4b	Bent	1'-0"	5/8"φ	8	8'-0"	67
Total Weight Lbs.						98

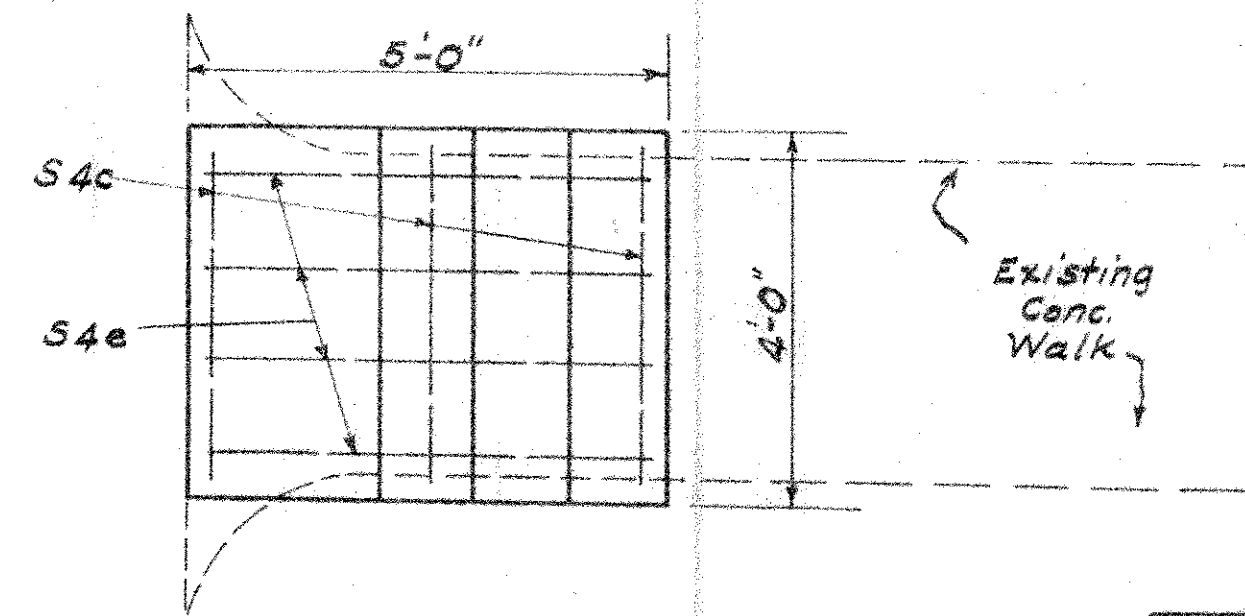
ESTIMATED QUANTITIES	
Pavement Removal	4.4 Sq. Yd.
Concrete Steps	48 Lin. Ft.
Pipe Railing	11.2 Lin. Ft.



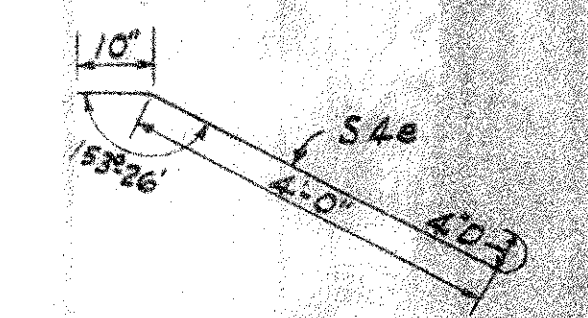
CROSS SECTION
Scale 1/2"=1'-0"

2-S STEPS RT. STA. 2+78

737.43
2+78
735.0

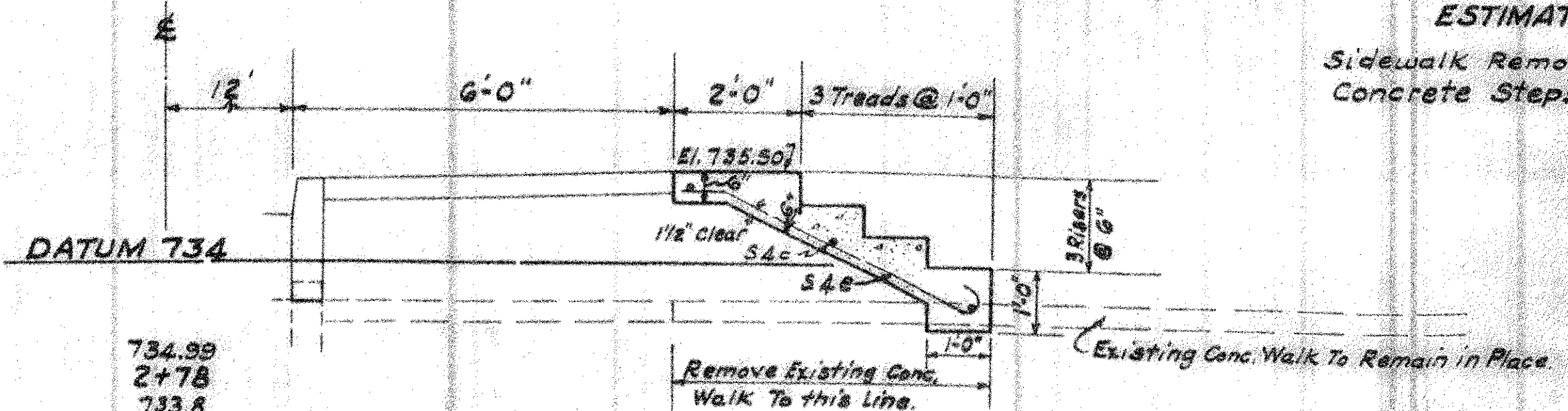


PLAN
Scale 1/2"=1'-0"



STEEL LIST						
Mark	Shape	Space	Size	Number	Length	Weight
S4c	Str.	Shown	5/8"φ	3	3'-6"	11
S4e	Bent	1'-0"	5/8"φ	4	4'-9"	20
Total Weight Lbs.						31

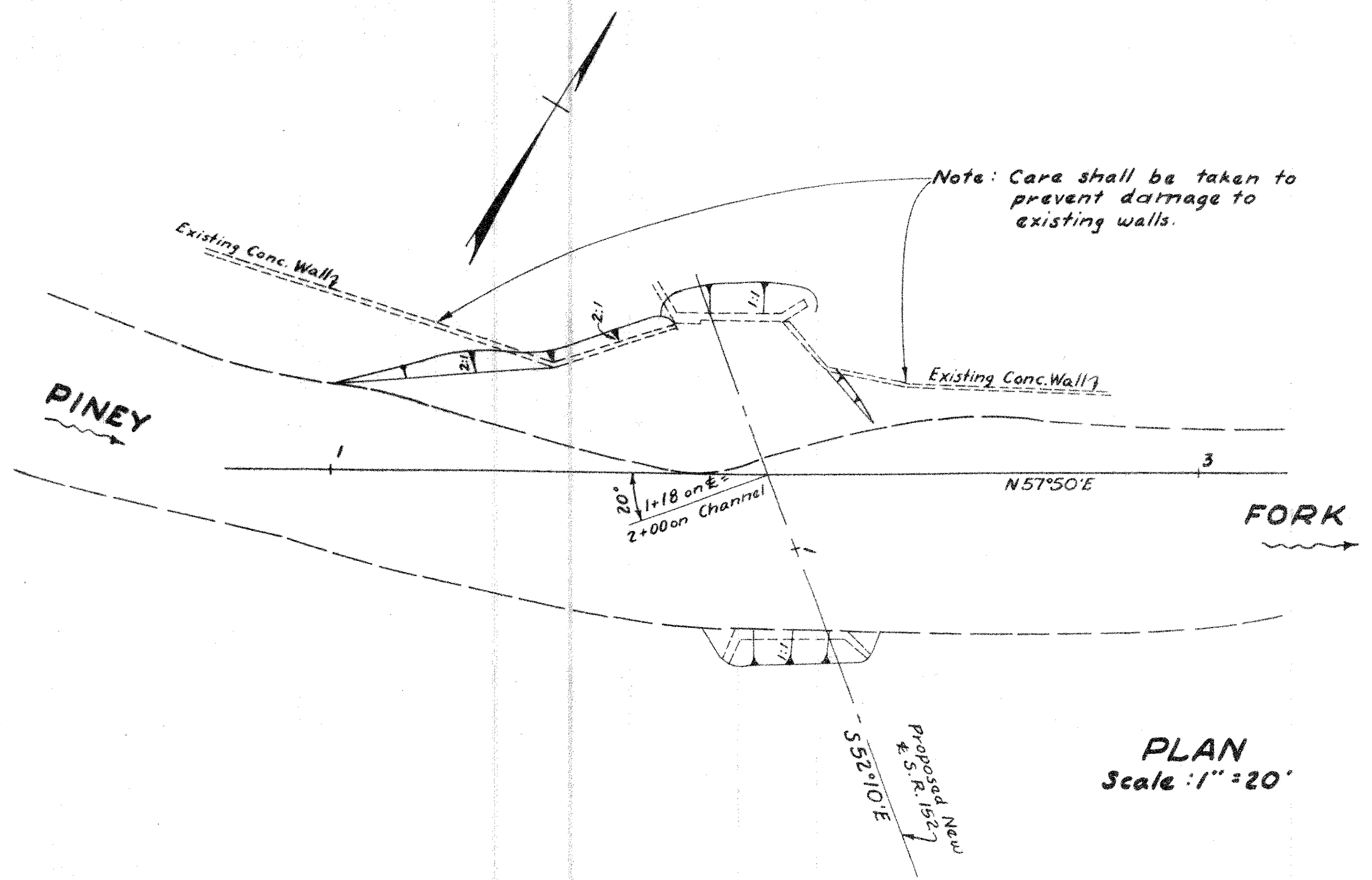
ESTIMATED QUANTITIES	
Sidewalk Removal	19 Sq. Ft.
Concrete Steps	16 Lin. Ft.



CROSS SECTION
Scale 1/2"=1'-0"

734.99
2+78
733.8

4-S STEPS RT. STA. 2+78

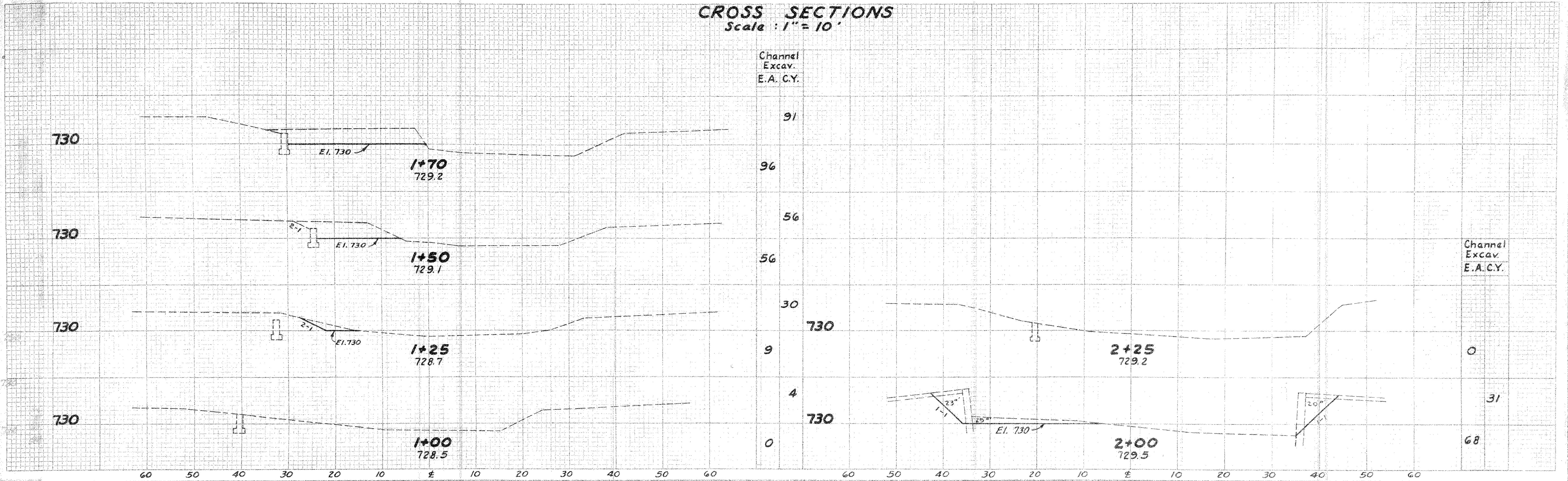


PLAN
Scale: 1" = 20'

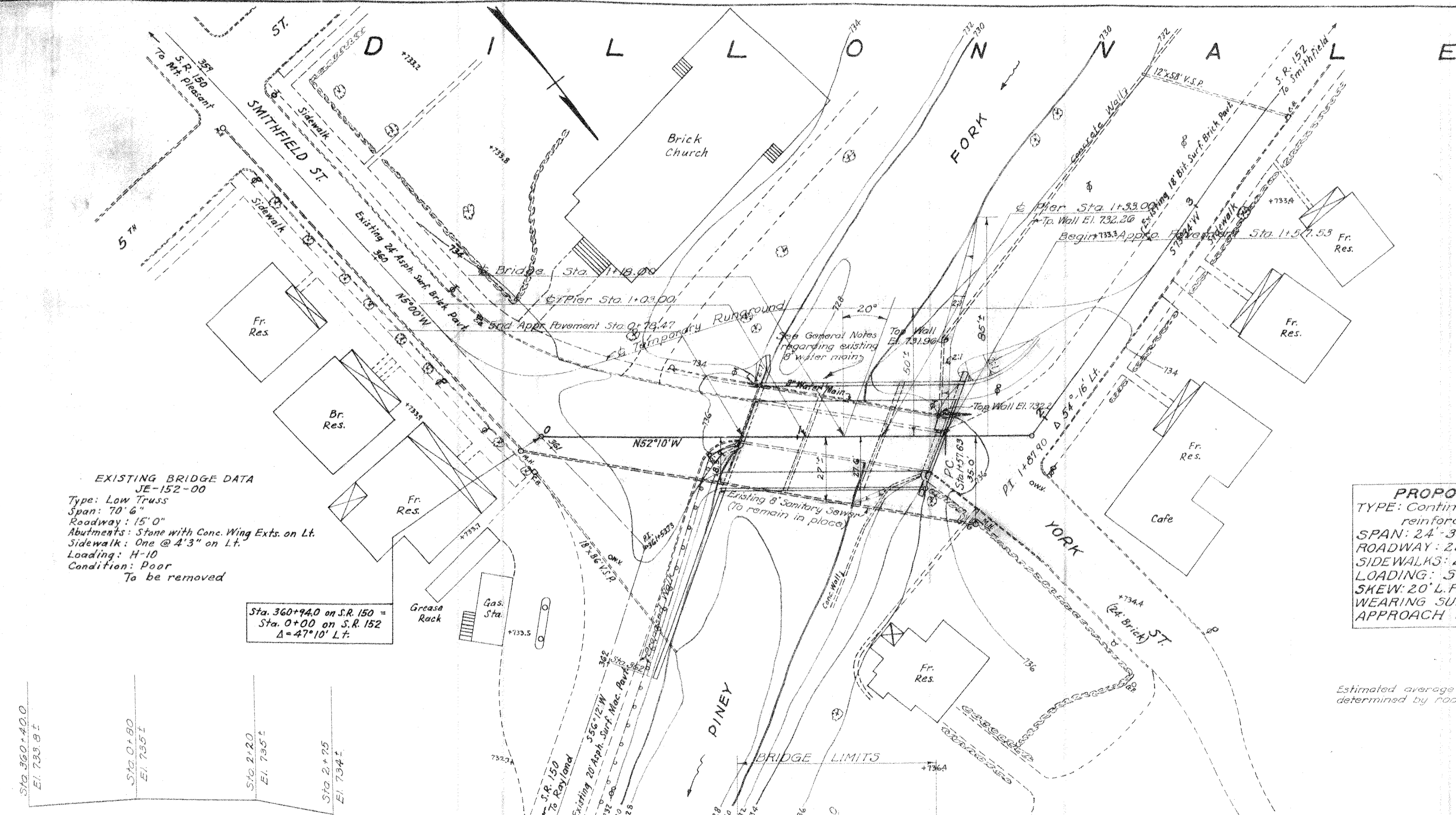
ESTIMATED QUANTITIES
Channel Excavation 212 Cu. Yds.

Note: Channel Excavation included with Bridge Quantities. See Sheet No. 14.

CROSS SECTIONS
Scale: 1" = 10'



JEF-152-0.01
In Dillonvale

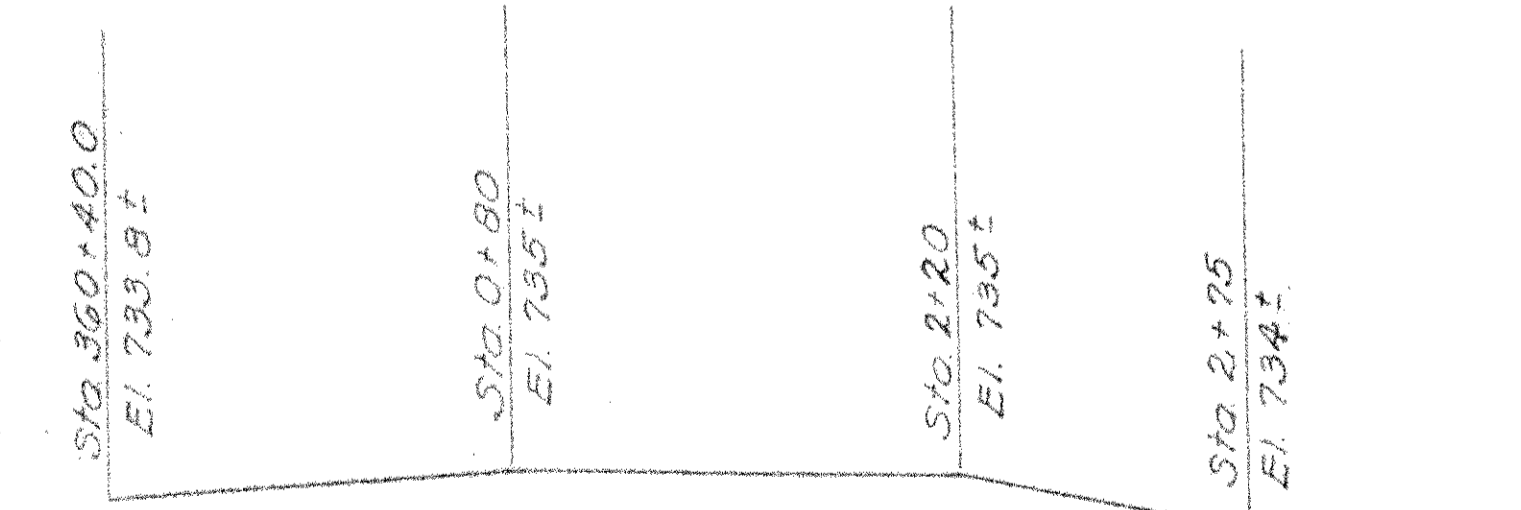


EXISTING BRIDGE DATA
JE-152-00
Type: Low Truss
Span: 70' 6"
Roadway: 15' 0"
Abutments: Stone with Conc. Wing Exts. on Lt.
Sidewalk: One @ 4' 3" on Lt.
Loading: H-10
Condition: Poor
To be removed

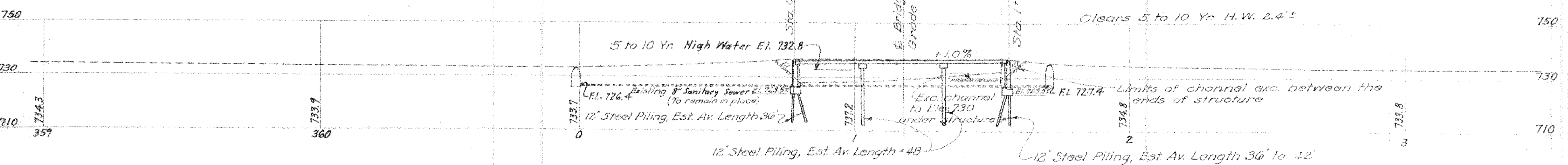
Sta. 360+94.0 on S.R. 150 =
Sta. 0+00 on S.R. 152
Δ = 47° 10' Lt.

PROPOSED STRUCTURE
TYPE: Continuous concrete slab on reinforced concrete substructure
SPAN: 24'-30'-24' @ bearings
ROADWAY: 28'-0"
SIDEWALKS: 2 @ 6'-0"
LOADING: 5-15-4G
SKEW: 20° L.F.
WEARING SURFACE: Monolithic conc. 3/4"
APPROACH SLABS: None

Estimated average piling lengths determined by rod soundings.



PROFILE ON PROPOSED TEMPORARY RUN-AROUND
Stations are projections from & Roadway



DRAINAGE AREA = 22 SQ. MI.

SITE PLAN
BRIDGE NO. JE-152-00
OVER PINEY FORK
JEFFERSON CO. S.R. 152
VILLAGE OF DILLONVALE
SEC. JEF-152-0.01
Scale: 1" = 20' Sta. 1+18.00
EXISTING TOPO. PROPOSED WORK
SURVEY DRAWN DESIGN DRAWN CHECK REVIEW
W.J.C. Div. Office P.E.S. P.E.S. J.W.D.

GENERAL NOTES

REFERENCE shall be made to Supplemental Specification S-303 dated 12-20-46, and Supple. Spec. T-110 revised 8-3-36.

TEMPORARY RUN-AROUND BRIDGE & 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 Supple. Spec. 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. Provide 5 ft wide sidewalk on temporary run-around bridge. Items T-110 and M-10 are included in roadway quantities for payment.

REMOVAL OF EXISTING BRIDGE Existing Superstructure shall be carefully dismantled, matchmarked for re-erection and piled near the bridge site at the disposal of Jefferson County. Existing Substructure shall be removed. Suitable material may be used for bank protection where directed by the Engineer.

WELDING shall be Class 'A'.

WATER MAIN During construction operations the existing 8" water main will temporarily be placed in by-pass location around the construction area by the owner of the water line. When new structure is completed the water main is to be supported on brackets at the side of the new structure.

All labor and material necessary for relocating and mounting the existing 8" water main on the side of the new structure will be furnished by the owner of the water line, but the Contractor shall cooperate with the owner in such installation. No part of the water main or its supports shall project below the bottom of the bridge slab.

SANITARY SEWER Existing 8" sanitary sewer is to remain in place, and an opening thru the new South abutment for same shall be provided and protected by a suitable sleeve.

All labor and material necessary for furnishing and installing sleeve will be provided by the owner of the sewer.

Contractor shall exercise special care in work adjacent to sewer to insure uninterrupted service thru the sewer.

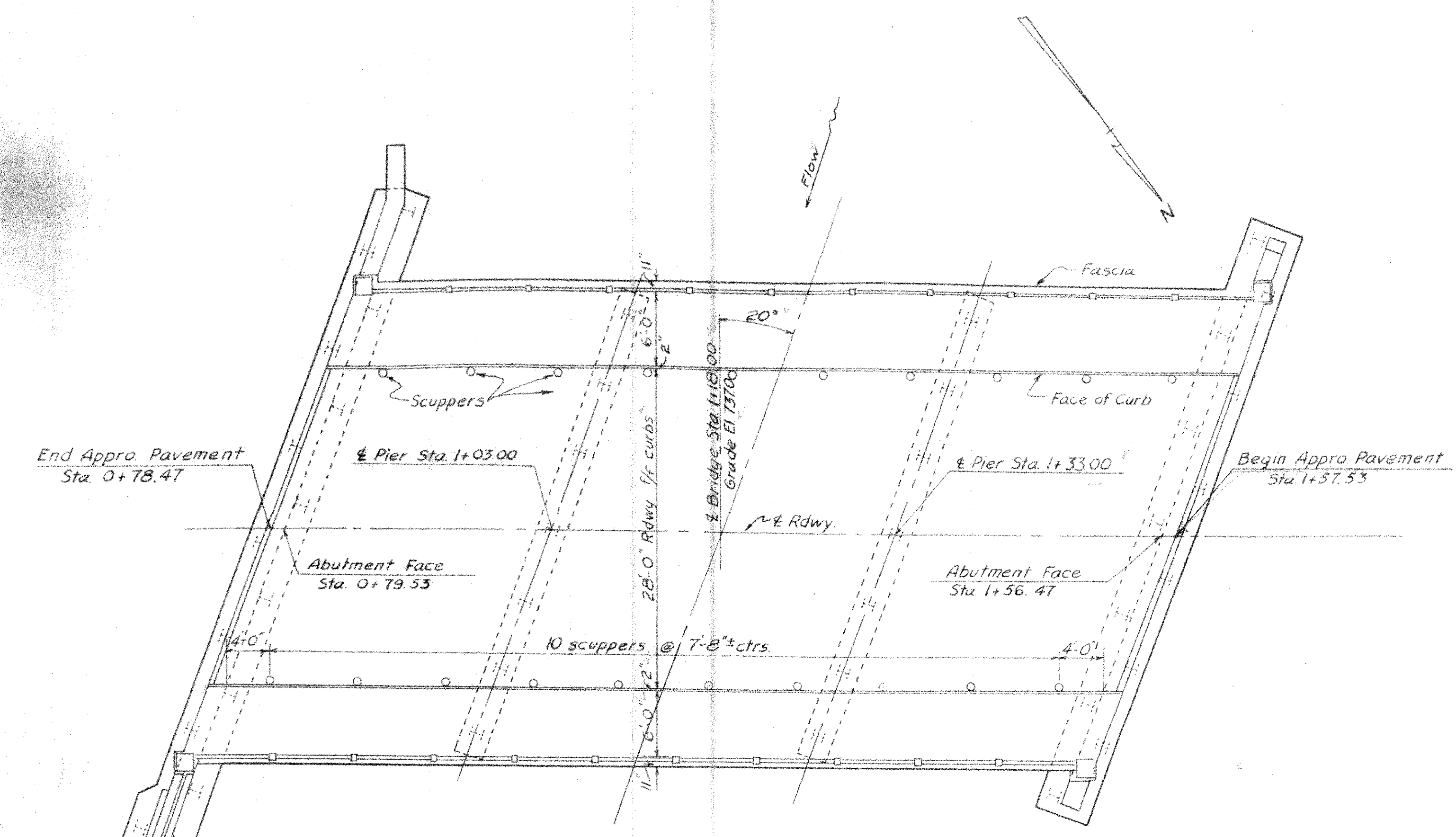
PILING Pier piling shall be driven to shale to a minimum bearing capacity of 40 tons. Abutment and retaining wall piling shall be driven to shale to a minimum bearing capacity of 30 tons.

PIER CAP CONCRETE QUANTITY is included in the quantity of superstructure concrete.

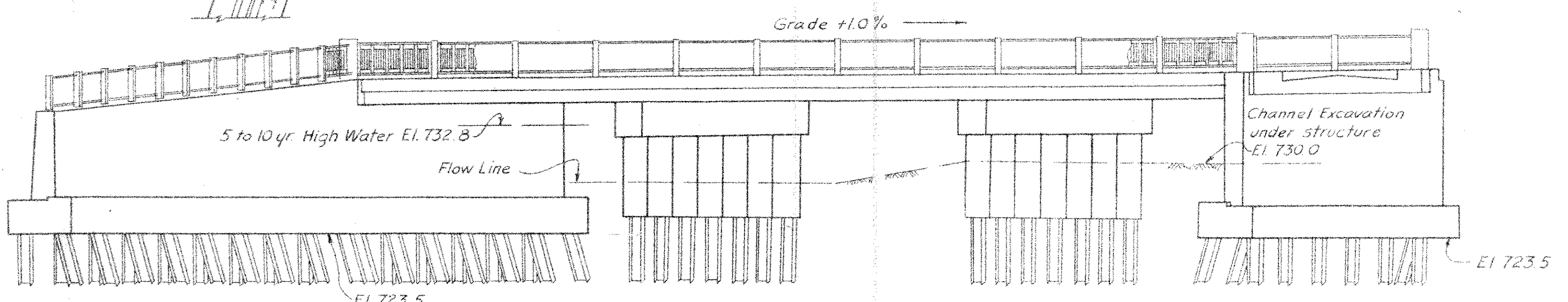
PIER PILE ENCASEMENT may extend a maximum of 1" above the bottom of pier cap. If metal forms for encasement are left in place the exposed portions shall be painted in accordance with Item S-8, using two coats M-99, M-920 or M-921 and two coats M-912. Payment for encasement, for painting, and for necessary excavation shall be included in the price per lin. ft. of piles.

SURFACE FINISH OF CONCRETE Fascia of deck slab, curb faces and railing end posts shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item S-1.

FALSEWORK SUPPORT Pier cap shall not be used to support falsework for slab.



PLAN



ELEVATION

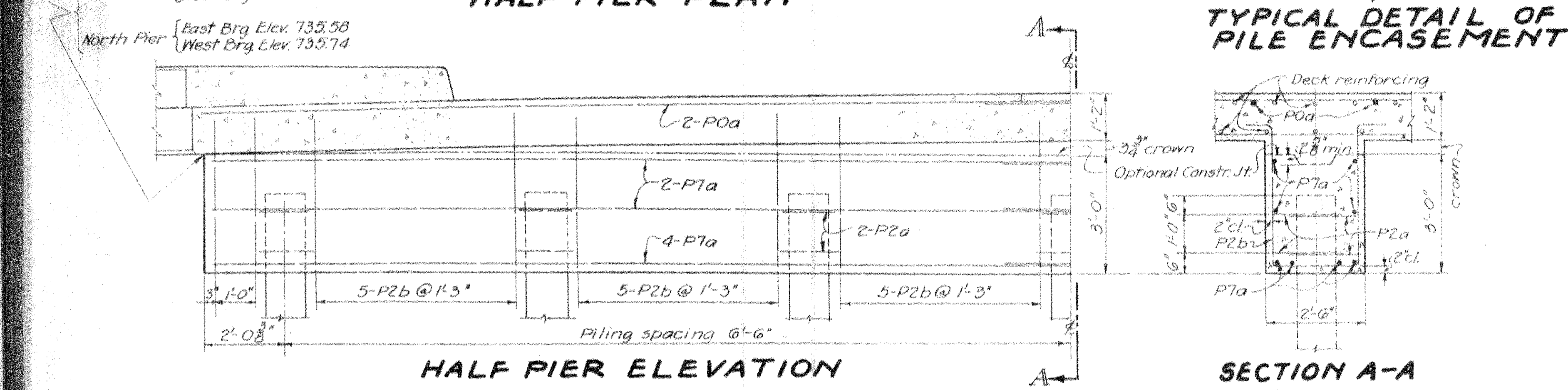
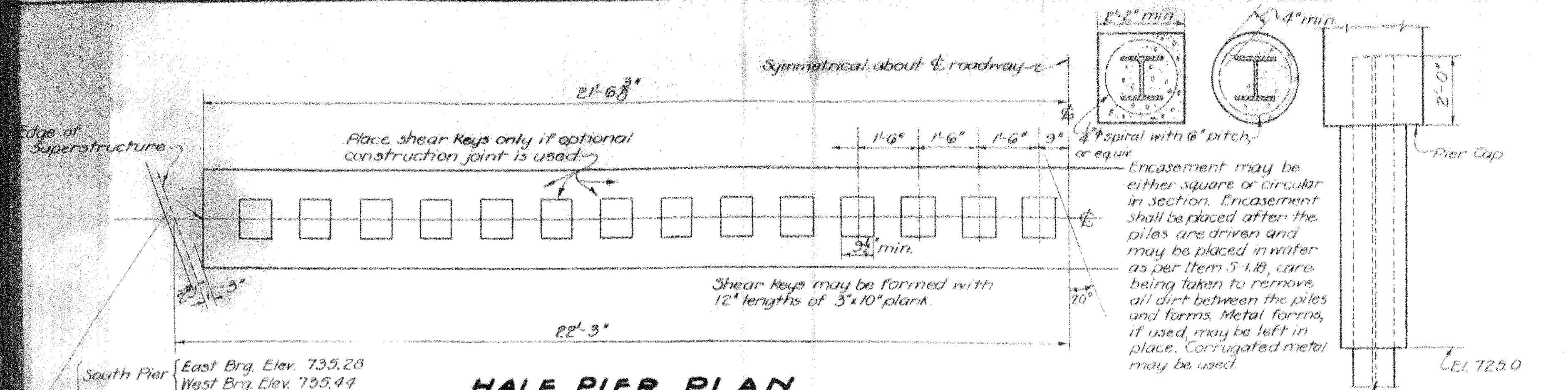
ESTIMATED QUANTITIES											
Item	Total	Unit		Super	N	Abut	S	Abut	Ret	Piers	General
E-2	Lump S	Lump S	Cofferdams, cribs and sheeting								Lump S
E-2	375	Cu Yd	Unclassified excavation		116	84		175			
E-3	212	Cu Yd	Channel excavation								212
S-1	208	Cu Yd	Class C concrete, Superstructure	208							
S-1	108	Cu Yd	Class E concrete, walls		29	31		48			
S-1	107	Cu Yd	Class E concrete, footings		28	30		49			
S-303	41	Lin Ft	Waterproofing, premolded sealing strip		10	10		21			
S-4	45468	Lb	Reinforcing steel	36908	1345	1598		1679	3630	108	
S-9	30	Sq Ft	Premolded expansion joint filler		15	15					
S-9	40	Sq Ft	Premolded expansion joint filler					40			
S-14	238.85	Lin Ft	Railing (steel with concrete end posts)	160.85				78.00			
S-15	Lump S	Lump S	Temporary run-around bridge & approaches								Lump S
S-16	Lump S	Lump S	First test pile								Lump S
S-18	2310	Lin Ft	Steel piling, 12" BP @ 53 lb. (including encasement)	510	470	650		680			
S-24	Lump S	Lump S	Removal of existing structure								Lump S
S-29	55	Cu Yd	Porous backfill		16	22		17			

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

**GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES**
BRIDGE No. JE-152-00
OVER PINEY FORK
JEFFERSON COUNTY
SEC. JEF-152-0.01 STA. 1+18.00

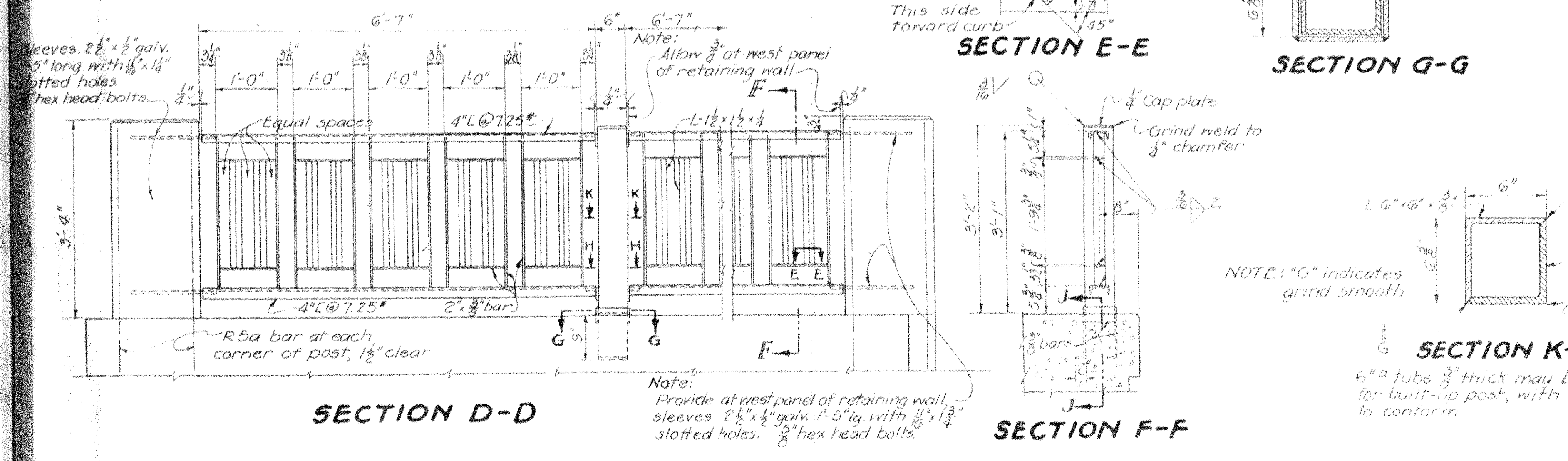
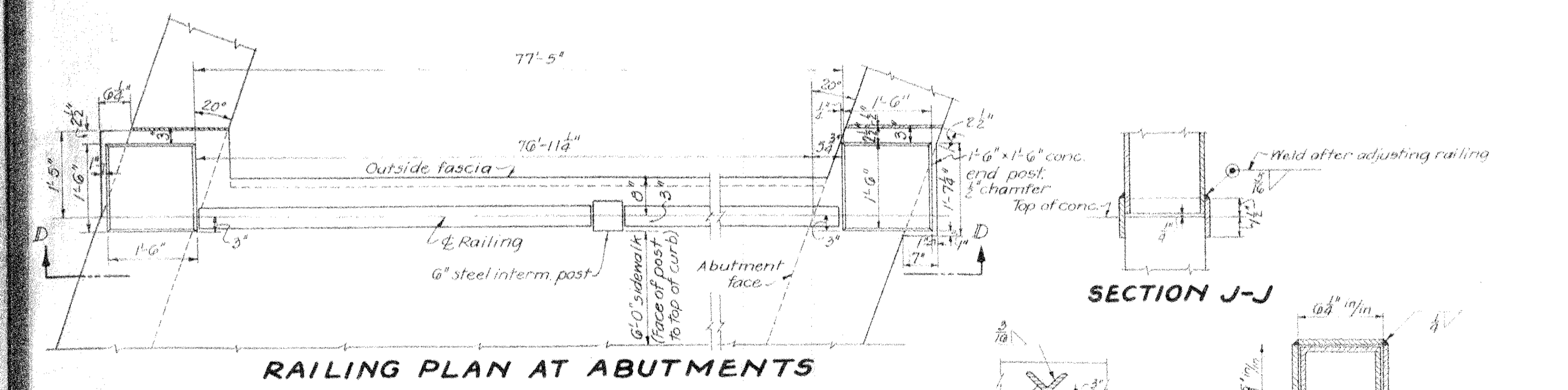
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.V.G.	J.V.G.	R.P.C.	W.C.R.	B.F.G.	12-16-49

JEF-152-0.01



REINFORCING STEEL LIST

Mark	Size	No.	Length	Weight	Jhp.	Bending Diagrams	Mark	Size	No.	Length	Weight	Jhp.
SOUTH ABUTMENT						SUPERSTRUCTURE						
A5a	3/4"	8	5'-8"	68	B	A5a	1 1/4"	78	20'-10"	5524	S	
A4a	3/4"	45	5'-1"	238	B	A4a	1 1/4"	40	11'-4"	1541	S	
A4b	3/4"	10	10'-0"	104	S	A4c	1 1/4"	36	8'-7"	1050	S	
A4c	3/4"	44	9'-6"	436	S	A7a	1"	108	28'-6"	8218	S	
A4d	3/4"	12	8'-6"	106	S	A7b	1"	34	21'-1"	1914	B	
A4e	3/4"	8	26'-3"	219	S	A7c	1"	36	18'-8"	1795	B	
A4f	3/4"	8	29'-8"	248	S	A7d	1"	17	19'-3"	874	S	
A4g	3/4"	1	5'-0"	5	B	A7e	1"	18	16'-0"	769	S	
A4h	3/4"	3	6'-0"	19	S	A7f	1"	16	28'-0"	1196	S	
A4j	3/4"	9	6'-3"	26	B							
A4k	3/4"	7	7'-6"	35	S							
A4l	3/4"	2	7'-0"	15	S							
A4m	3/4"	14	4'-0"	59	S							
RETAINING WALL						REPLACEMENT BARS						
W4a	3/4"	34	5'-2"	183	B	W4a	3/4"	4	16'-6"	99	S	
W4b	3/4"	6	7'-6"	47	S	W4b	3/4"	4	16'-9"	101	S	
W4c	3/4"	6	7'-9"	49	S	W4c	3/4"	4	17'-0"	102	S	
W4d	3/4"	6	8'-3"	52	S	W4d	3/4"	4	17'-3"	104	S	
W4e	3/4"	7	8'-6"	62	S	W4e	3/4"	4	17'-6"	105	S	
W4f	3/4"	1	8'-9"	9	S	W4f	3/4"	4	17'-9"	107	S	
W4g	3/4"	6	9'-0"	57	S	W4g	3/4"	4	18'-0"	108	S	
W4h	3/4"	17	9'-3"	67	S	W4h	3/4"	4	18'-3"	110	S	
W4j	3/4"	6	9'-0"	60	S	W4i	3/4"	4	18'-6"	111	S	
W4k	3/4"	32	10'-0"	334	S	W4j	3/4"	4	18'-9"	113	S	
W4l	3/4"	6	10'-3"	64	S	W4k	3/4"	4	18'-6"	111	S	
W4m	3/4"	18	37'-0"	695	S	W4l	3/4"	4	18'-9"	113	S	
NORTH ABUTMENT						PIERS						
A4a	3/4"	53	5'-1"	281	B	P0a	1 1/4"	8	23'-6"	939	S	
A4b	3/4"	10	10'-0"	104	S	P7a	1"	32	23'-0"	1965	S	
A4m	3/4"	10	4'-0"	42	S	P2a	3/4"	56	5'-3"	196	B	
A4n	3/4"	6	9'-2"	57	S	P2b	3/4"	68	10'-4"	470	B	
A4p	3/4"	48	10'-3"	513	S	RAILING POST REINF.						
A4r	3/4"	10	27'-6"	287	S	R5a	3/4"	16	5'-0"	Included 5' in railing for payment		
A4s	3/4"	10	25'-0"	261	S							
RAILING PLAN AT ABUTMENTS						SECTION D-D						
77'-5"						6'-7"						
Outside fascia						6'-7"						
7'-6" x 11 1/4"						6'-7"						
Railing						6'-7"						
6" steel interm. post						6'-7"						
6'-0" sidewalk (face of post to top of curb)						6'-7"						
Abutment face						6'-7"						
1'-6" x 1'-6" conc. end post, 1/2" chamfer						6'-7"						
Top of conc.						6'-7"						
Weld after adjusting railing						6'-7"						
SECTION J-J						SECTION E-E						
SECTION G-G						SECTION F-F						
SECTION K-K						SECTION H-H						



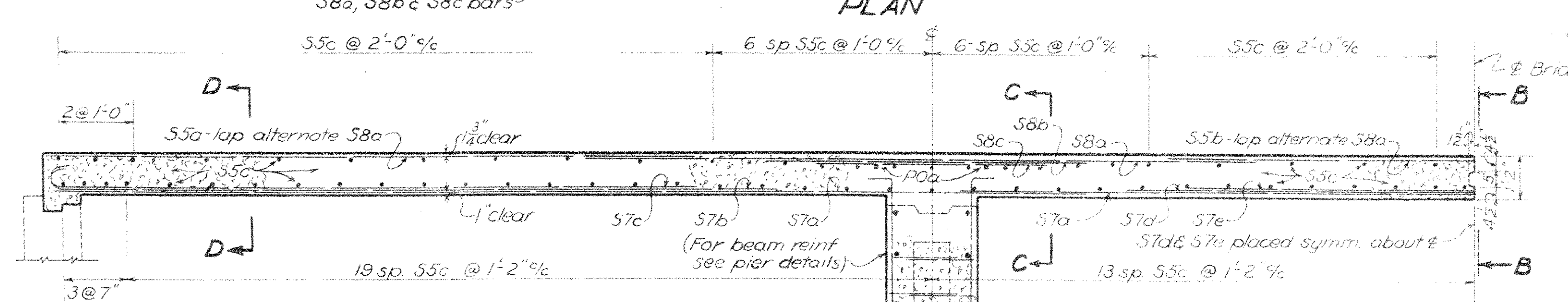
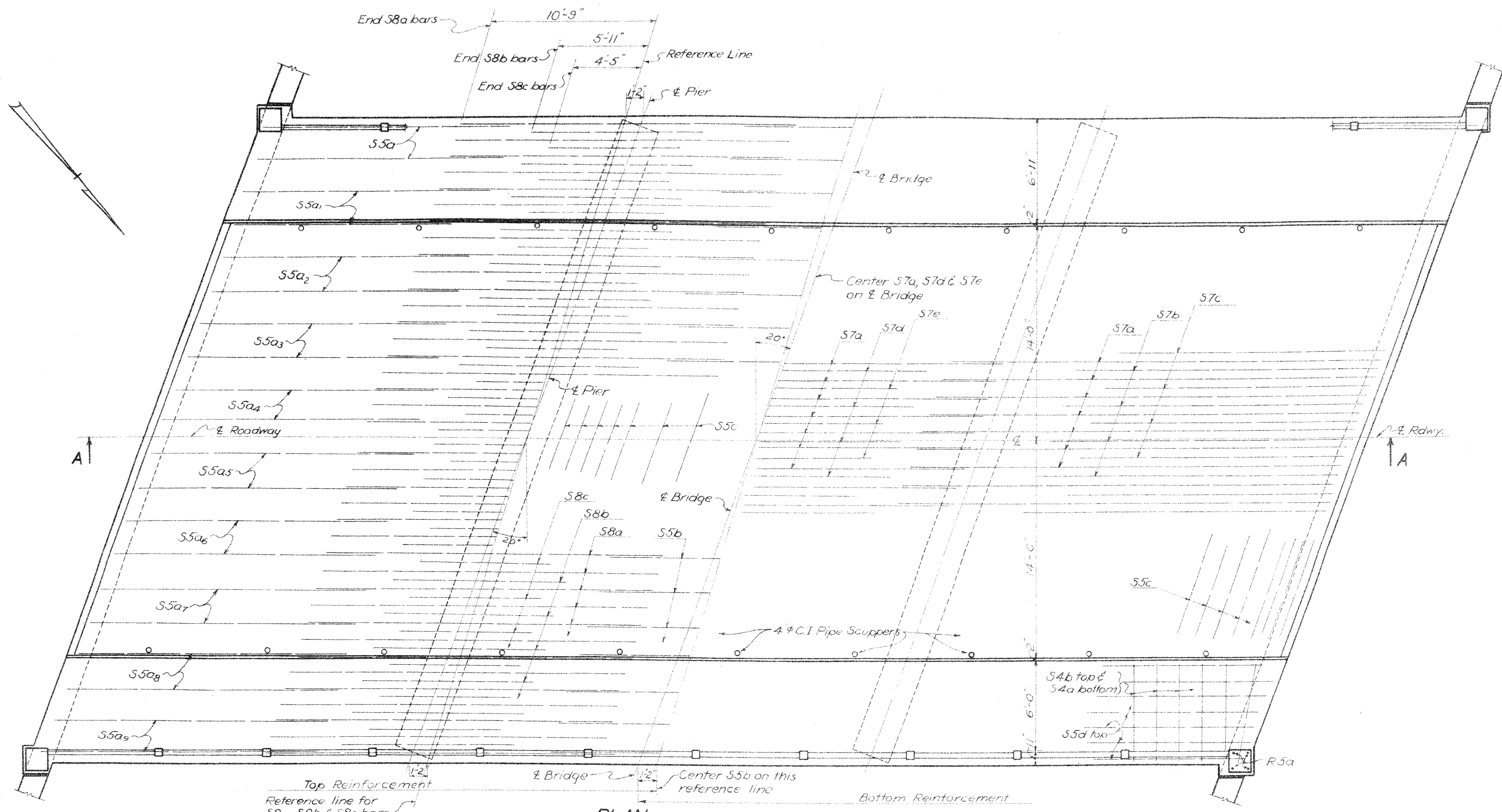
PIER & RAILING DETAILS
BRIDGE No. JE-152-00
OVER PINEY FORK
JEFFERSON COUNTY STA. 1+18.00
SEC. JEF-152-0.01

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
J.V.G.	J.V.G.	KET	W.C.K.	BFG
				MAR 12-16-49

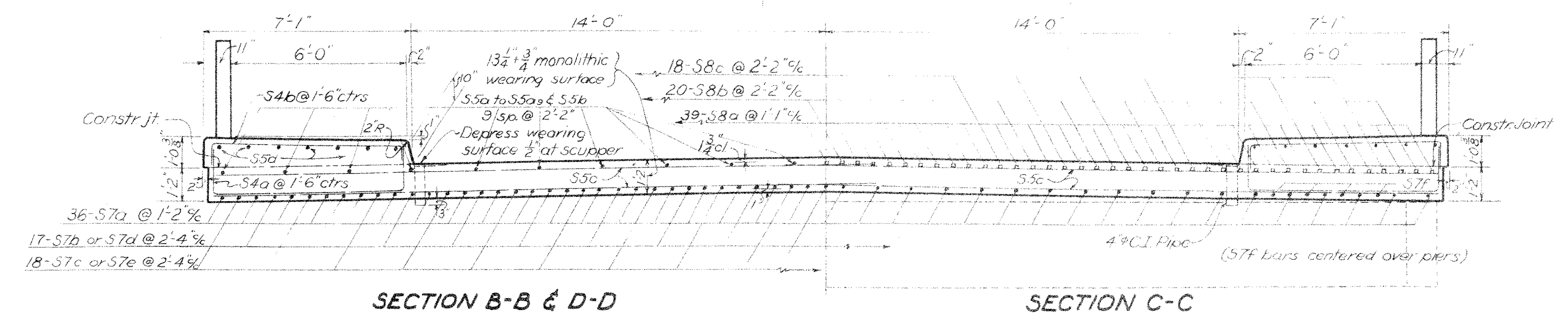
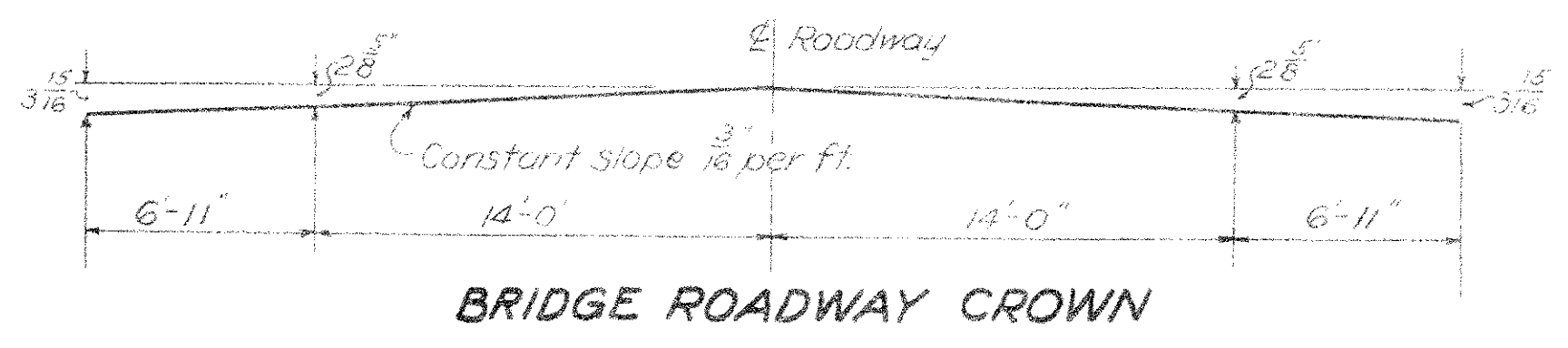
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	HIF	1950

18
18

JEF-152-0.01



NOTE:
Loosen or remove shoring supports under slab before sidewalk concrete is placed.
A longitudinal construction joint with key is permissible on roadway.



ST. & GRID
PARTIAL HIGHWAYS
BRIDGE & RAILROAD CROSSINGS

SUPERSTRUCTURE DETAILS
BRIDGE NO. JE-152-00
OVER PINEY FORK
JEFFERSON COUNTY
SEC. JEF-152-0.01 STA. 1+18.00

DESIGNED	DRAWN	CHECKED	APPROVED	DATE
J.V.G.	J.V.G.	R.B.P.	A.C.R.	B.F.G. 12-16-49