INDEX OF SHEETS

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 230B
STATE HIGHWAY NO. 1
DOUGLAS CO.

LEGEND

SCALES

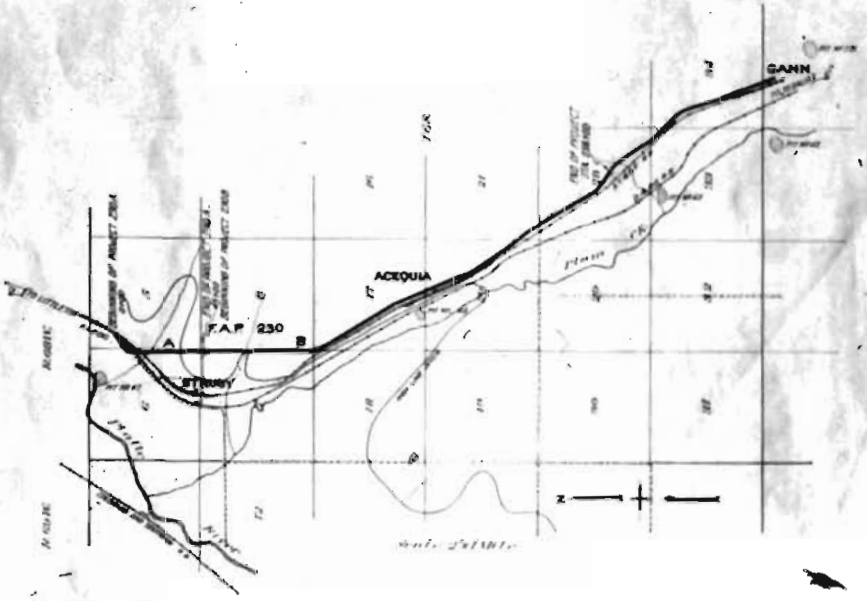
ON PLAN 1 IN = 100 FT

ON PROFILE 1 IN = 100 FT HORIZONTAL
1 IN = 10 FT VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

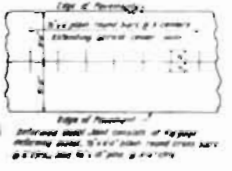
GROSS LENGTH OF PROJECT 21 094.8 = 3.995 MI.

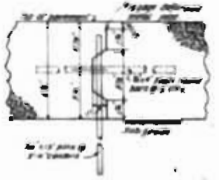
NET LENGTH OF PROJECT 21 094.8 = 3.938 MI.

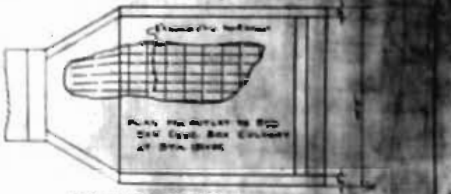


TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

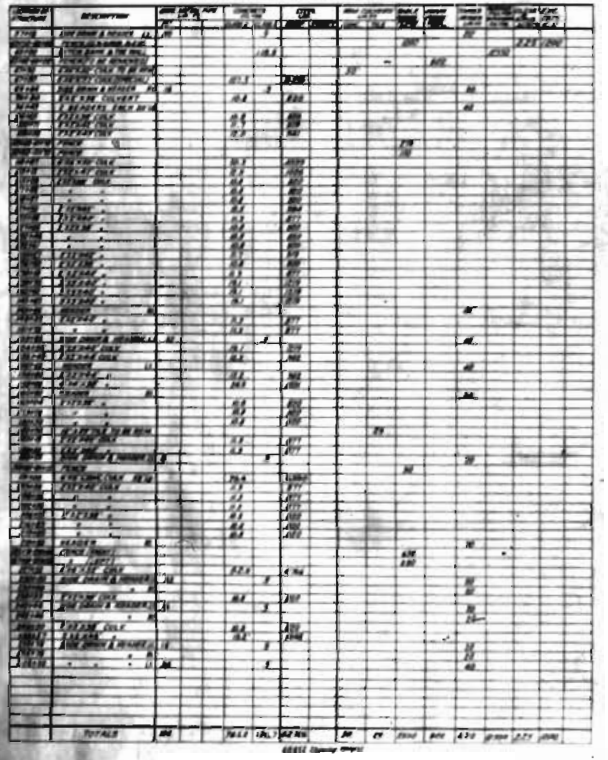
STANDARD CONCRETE PAVEMENT



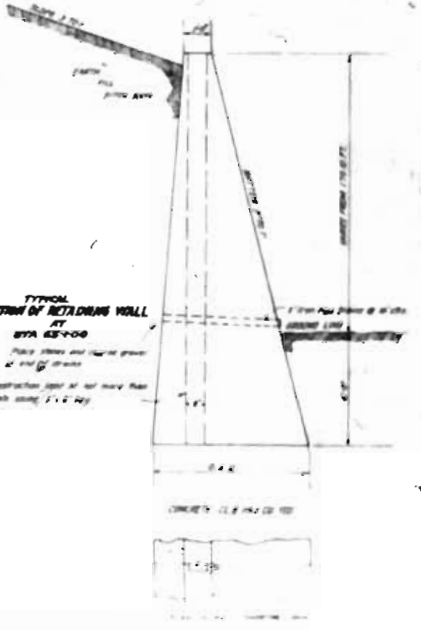




TABULATION OF STRUCTURES



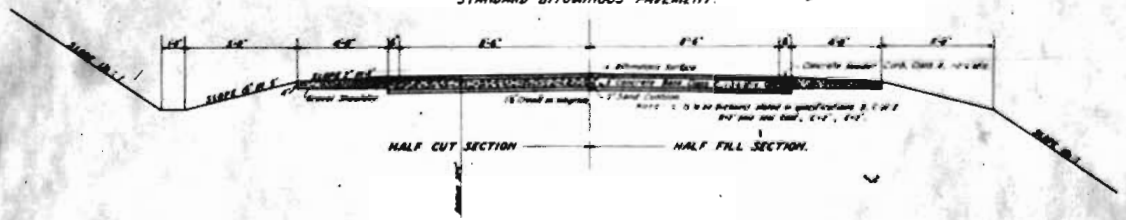
TYPICAL SECTION OF RETAINING WALL AT STA 63+00



SUMMARY OF QUANTITIES

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

STANDARD BITUMINOUS PAVEMENT.



HALF CUT SECTION ——— HALF FILL SECTION.

SUMMARY OF QUANTITIES FOR BITUMINOUS PAVEMENT USED IN LIEU OF PLAIN CEMENT CONCRETE PAVEMENT

Plain Cement Concrete Base Course	[redacted]	Square Yards
" " " Header Curb	[redacted]	Linear Feet
Bituminous Surface Course	[redacted]	Square Yards

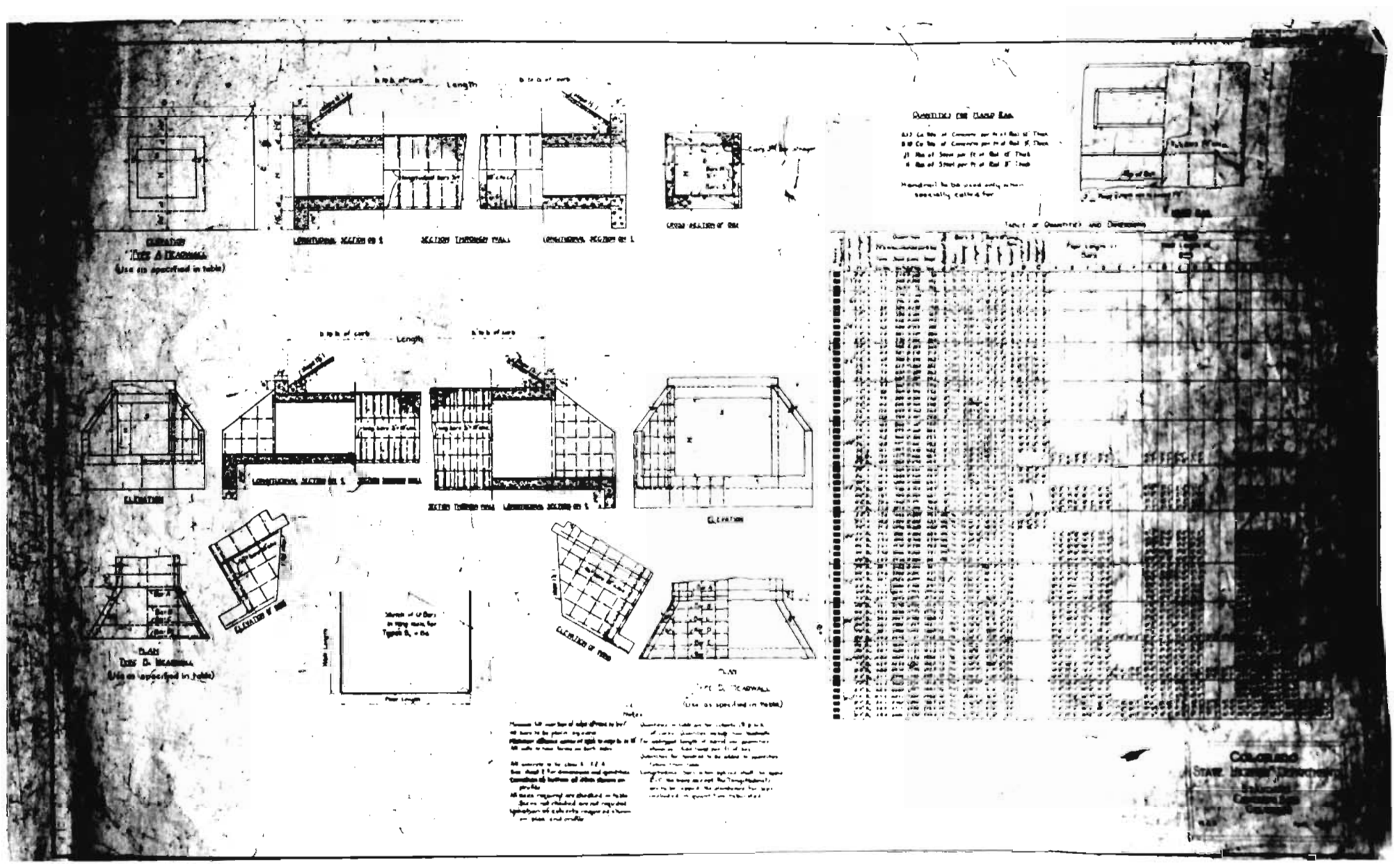
TABLE OF EQUIVALENTS.

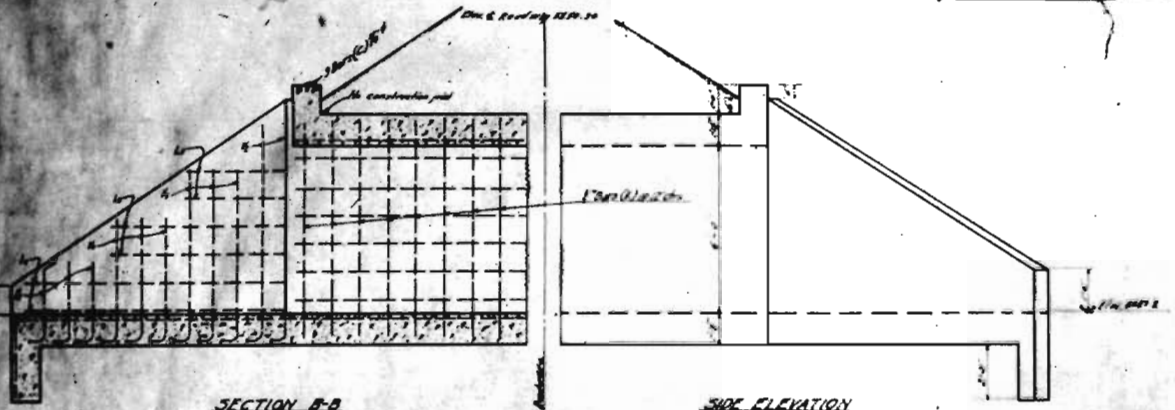
1 Sq. Yd. of Concrete Base Course	1.0 Sq. Yd.
1 " " " Header Curb	0.0833 "
1 " " " Bituminous Surface	1.0000 "

Base course is class C concrete, 1:2½:5 mix., 1.40 bbls. of cement per cu. yd. of concrete

Header curb is class A concrete, 1:2:4 mix., 1.56 bbls. of cement per cu. yd. of concrete

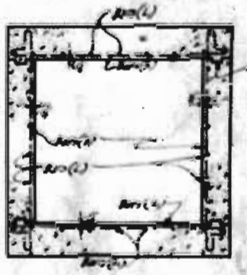
1 Lin. Ft. of Pavement	1.0 Sq. Yds. Base Course 0.1 Lin. Ft. Header Curb 1.0000 Sq. Yds. Bit. Surface 0.0900 Cu. Yds. " "
1 Mile of Pavement	5280.0 Sq. Yds. Base Course 528.0 Lin. Ft. Header Curb 5280.00 Sq. Yds. Bit. Surface 475.20 Cu. Yds. " "
1 Sq. Yd. Base Course	0.1 Lin. Ft. of pavement 0.189394 Cu. Yds. Concrete 0.471696 Bbls. Cement
1 Lin. Ft. Header Curb	0.8 Lin. Ft. of pavement 0.666666 Cu. Yds. Concrete 0.999999 Bbls. Cement
1 Sq. Yd. Bit. Surface	0.189394 Lin. Ft. of pavement 0.090000 Cu. Yds. Bit. Surface
1 Cu. Yd. C.C.C. Concrete	5.6 Lin. Ft. of pavement 1.1990 Sq. Yds. Base Course
1 Cu. Yd. Cl. A Concrete	66.4 Lin. Ft. of Header Curb 11.9 " " " Pavement
1 Cu. Yd. Bit. Pavement	0.189394 Lin. Ft. Pavement 11.1 Sq. Yds. Bit. Surface





SECTION B-B

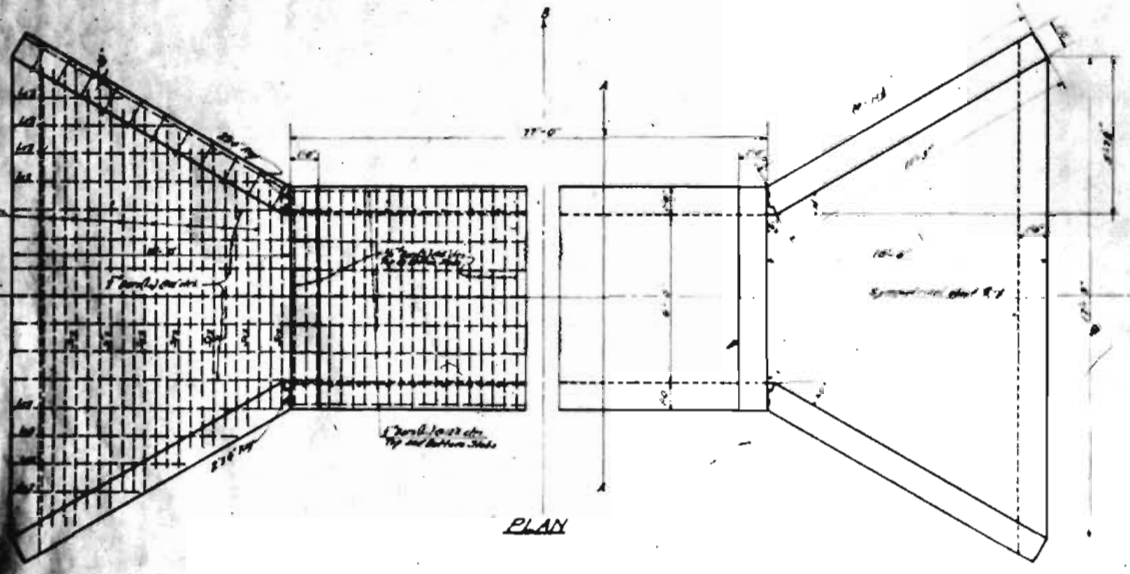
SIDE ELEVATION



SECTION A-A

BAR TABLE

SUMMARY OF QUANTITIES

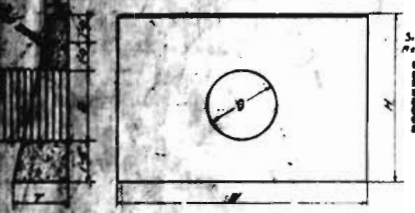


PLAN

GENERAL NOTES

LOADING DATA

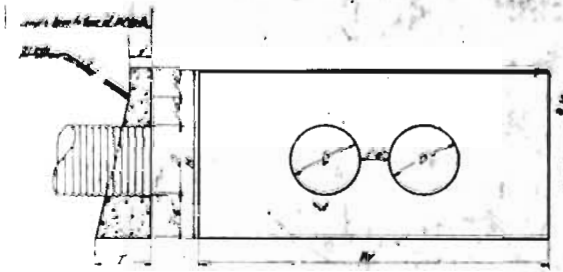
COLORADO
STATE HIGHWAY DEPARTMENT
6'-6" Culvert



TYPE-A

DIMENSIONS & QUANTITIES

Sizes Required	Size of Pipe D	Width of Wall W	Height of Wall H	Thickness of Wall T	Concrete & Walls Cu Yds
	24"	5'-3"	4'-6"	1'-0"	0.6
	30"	6'-0"	5'-6"	1'-0"	0.7
	36"	6'-9"	6'-6"	1'-0"	0.8
	42"	7'-6"	7'-6"	1'-0"	0.9
	48"	8'-3"	8'-6"	1'-0"	1.0
	60"	9'-9"	10'-6"	1'-0"	1.2



TYPE-B

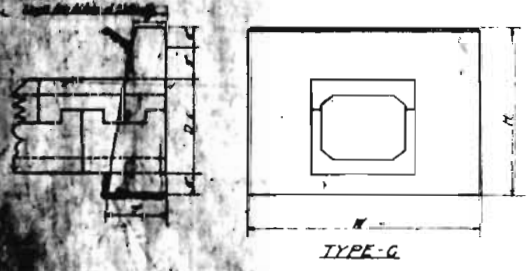
DIMENSIONS & QUANTITIES

Sizes Required	Size of Pipe D	Width of Wall W	Height of Wall H	Thickness of Wall T	Concrete & Walls Cu Yds
	24"	9'-3"	4'-6"	1'-0"	1.0
	30"	10'-6"	5'-6"	1'-0"	1.2
	36"	11'-9"	6'-6"	1'-0"	1.4
	42"	13'-0"	7'-6"	1'-0"	1.6
	48"	14'-3"	8'-6"	1'-0"	1.8
	60"	16'-9"	10'-6"	1'-0"	2.2

Notes
All Concrete to be Class "B" (1:2½:5)
Minimum fill over pipe to be 1'-0"
Minimum grade of pipe to be 1%

HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS UNDER MAIN ROAD

HEADWALLS FOR INTERLOCKING CONCRETE CULVERTS PARALLEL TO MAIN ROAD



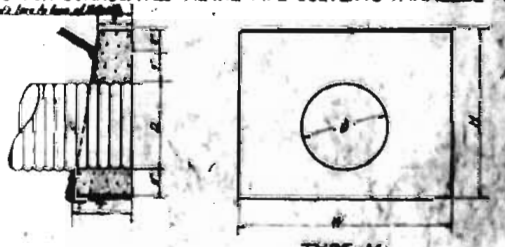
TYPE-G

Notes
All Concrete to be Class "B" (1:2½:5)
Minimum fill over pipe to be 3".
Minimum grade of pipe to be 1%.
Quantities are for Headwalls only

DIMENSIONS & QUANTITIES

Size	Width of Wall W	Height of Wall H	Thickness of wall T	Concrete & Walls Cu Yds	Sizes Required
24"	4'-3"	3'-6"	1'-0"	0.6	
30"	4'-9"	4'-6"	1'-0"	0.9	
36"	5'-0"	4'-6"	1'-0"	1.1	

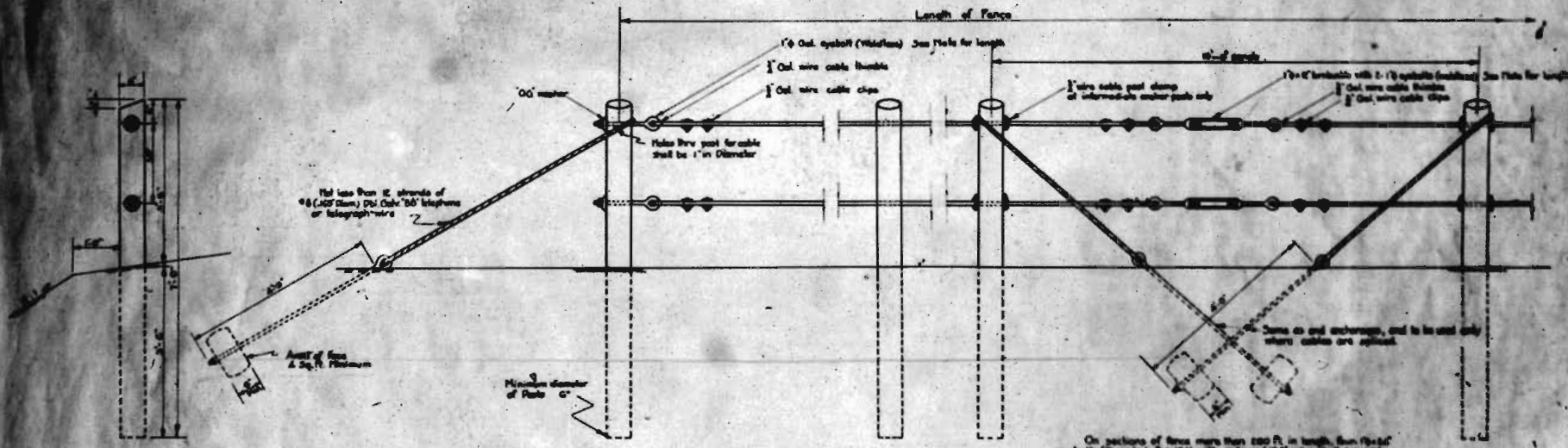
HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS PARALLEL TO MAIN ROAD



TYPE-M

DIMENSIONS & QUANTITIES

Size	D	W	H	T	Concrete & Walls Cu Yds
	24"	4'-6"	3'-0"	1'-0"	0.7
	30"	5'-0"	3'-6"	1'-0"	0.9
	36"	5'-6"	4'-0"	1'-0"	1.1
	42"	6'-0"	4'-6"	1'-0"	1.3



On sections of fence more than 200 ft. in length, then five 5/8" eye bolts (threaded for 10") with nuts and Oxt. washers shall be used.
On sections not more than 200 ft. in length, two-1 1/4" eye bolts (threaded for 3") and two-1'0" x 5" eye bolts (threaded for 9") including nuts and Oxt. washers shall be used.
Wherever cables are spliced, two-1" x 16" steel turnbuckles and four 1'0" x 5" eye bolts shall be used. Cables shall be clamped to posts and two anchors used as shown.
Splice so that no length of cable shall be over 2000 ft. long.

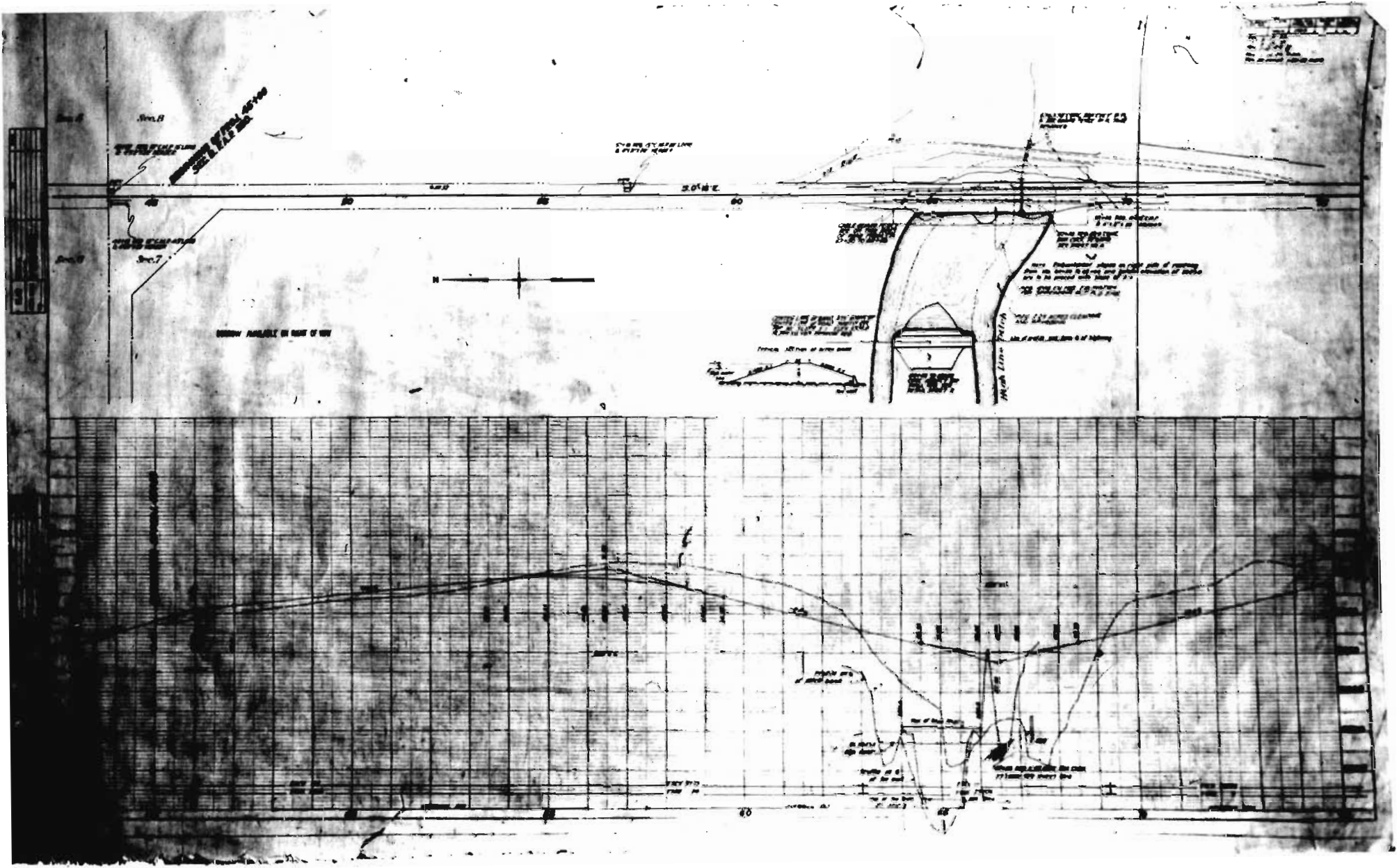
- GENERAL NOTES -

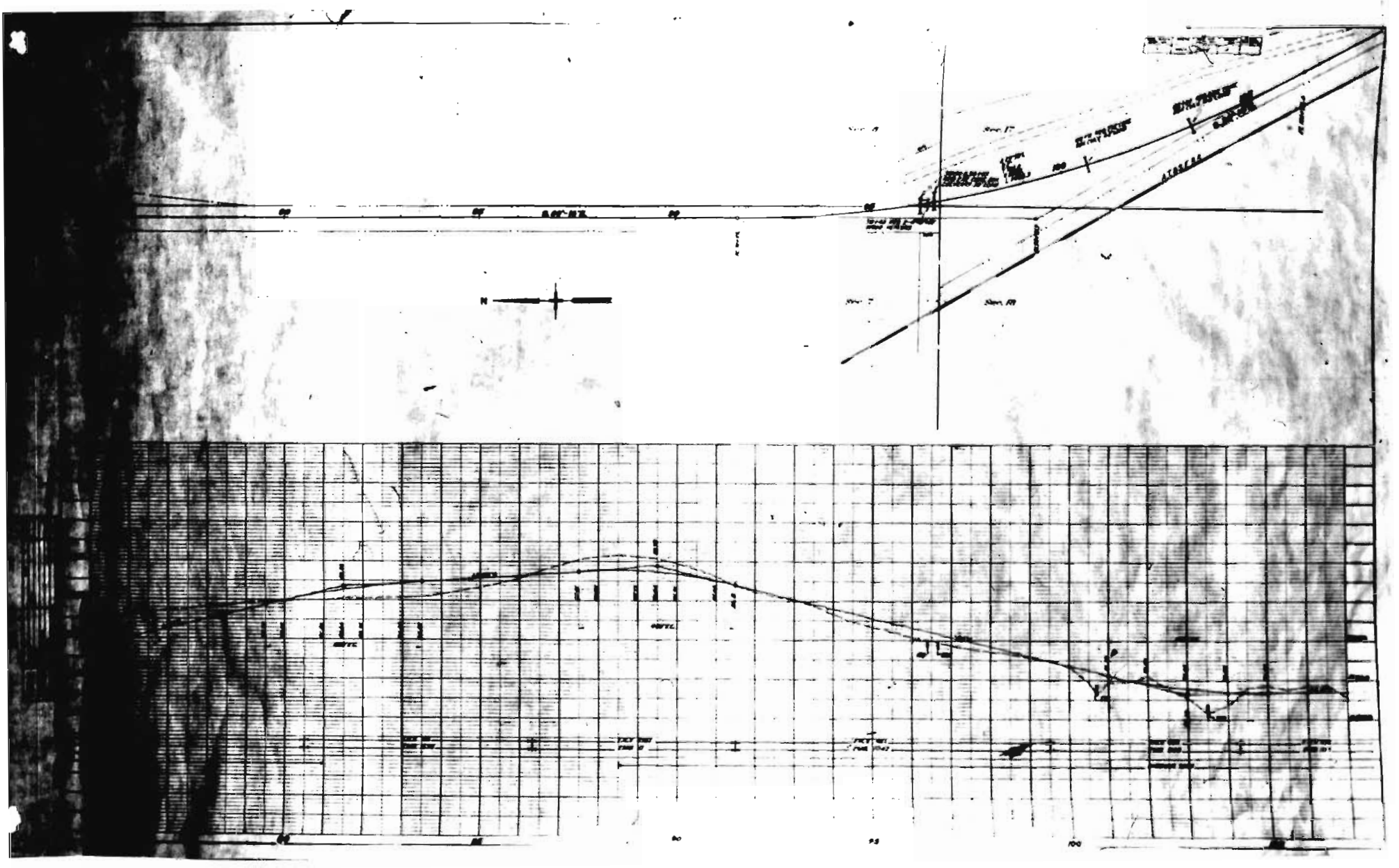
All wood posts used for this railing shall be round and made of peeled straight, sound Red Spruce, Oak, Long Leaf Yellow Pine or Douglas Fir and at no section less than 6" in diameter. Bark shall be removed from posts and the surface sheaved smooth.
All posts shall be dip-treated with creosote oil, before being set, for a length of 4 1/2 ft.
Fence to be set to true line and grade, and backfill to be thoroly tamped.
Cable to be not less than 3/8" in diameter. Second hand cable in good condition may be used.
Standard cast iron O.G. washers to be used under all nuts.

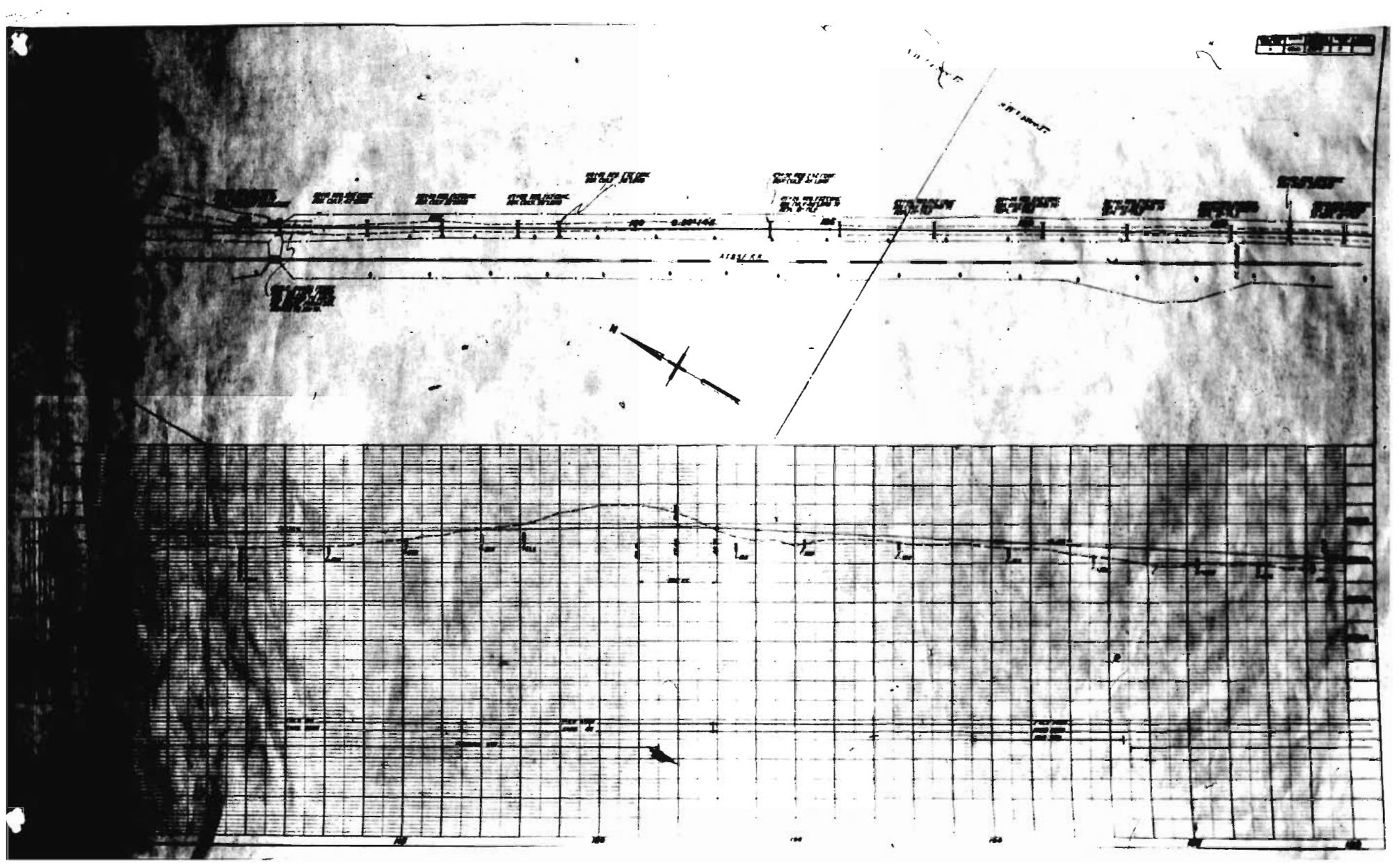
The remaining upper section of posts, and all parts not galvanized, shall receive two coats of paint consisting of 85% pure white lead and 15% zinc white, mixed with pure raw linseed oil. The coats need not be alike.
All work to be done in accordance with the Standard Specifications of the Colorado State Highway Department.

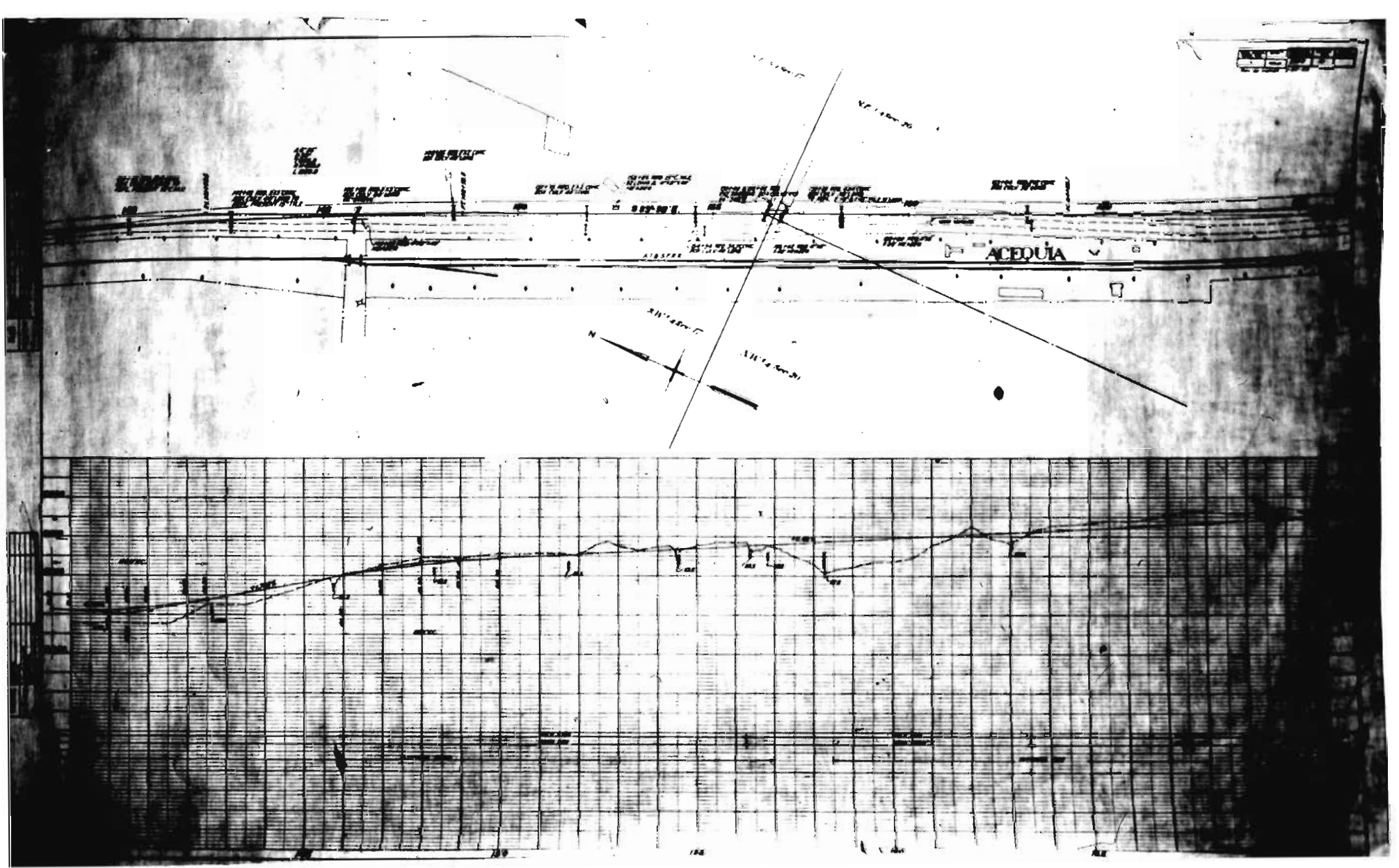
Approved _____
Bridge Engineer

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
WIRE CABLE GUARD FENCE
WITH TIMBER POSTS





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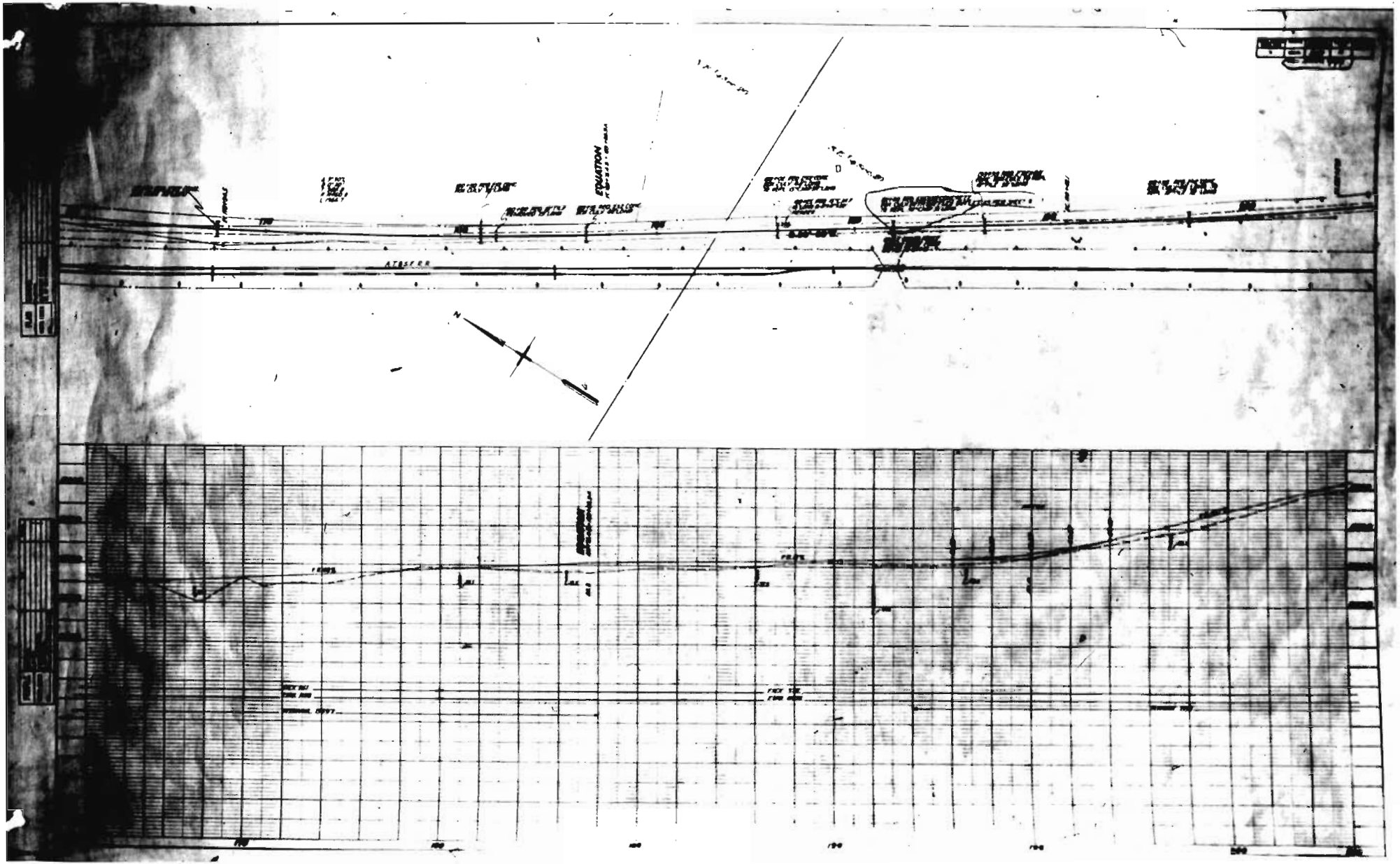
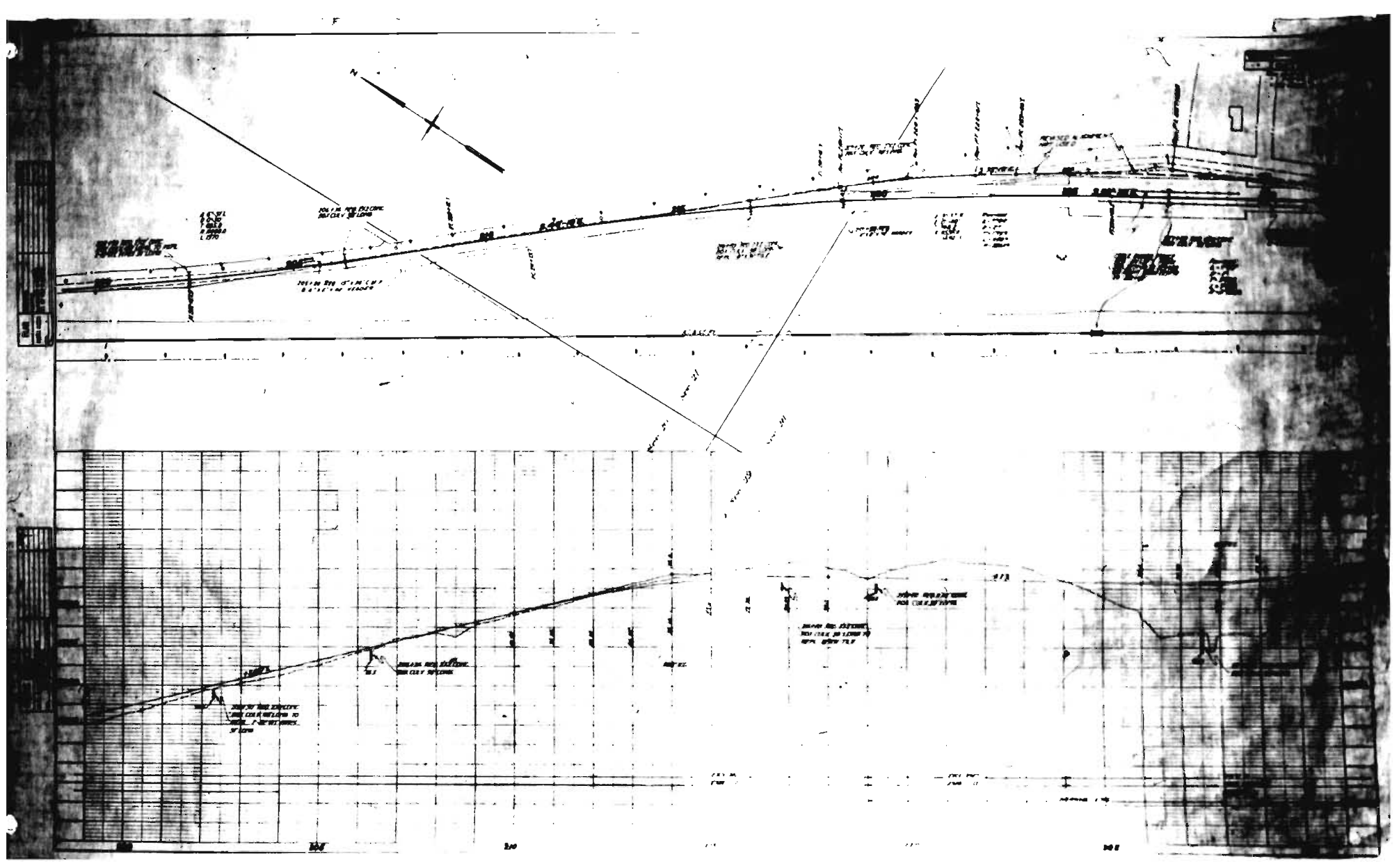
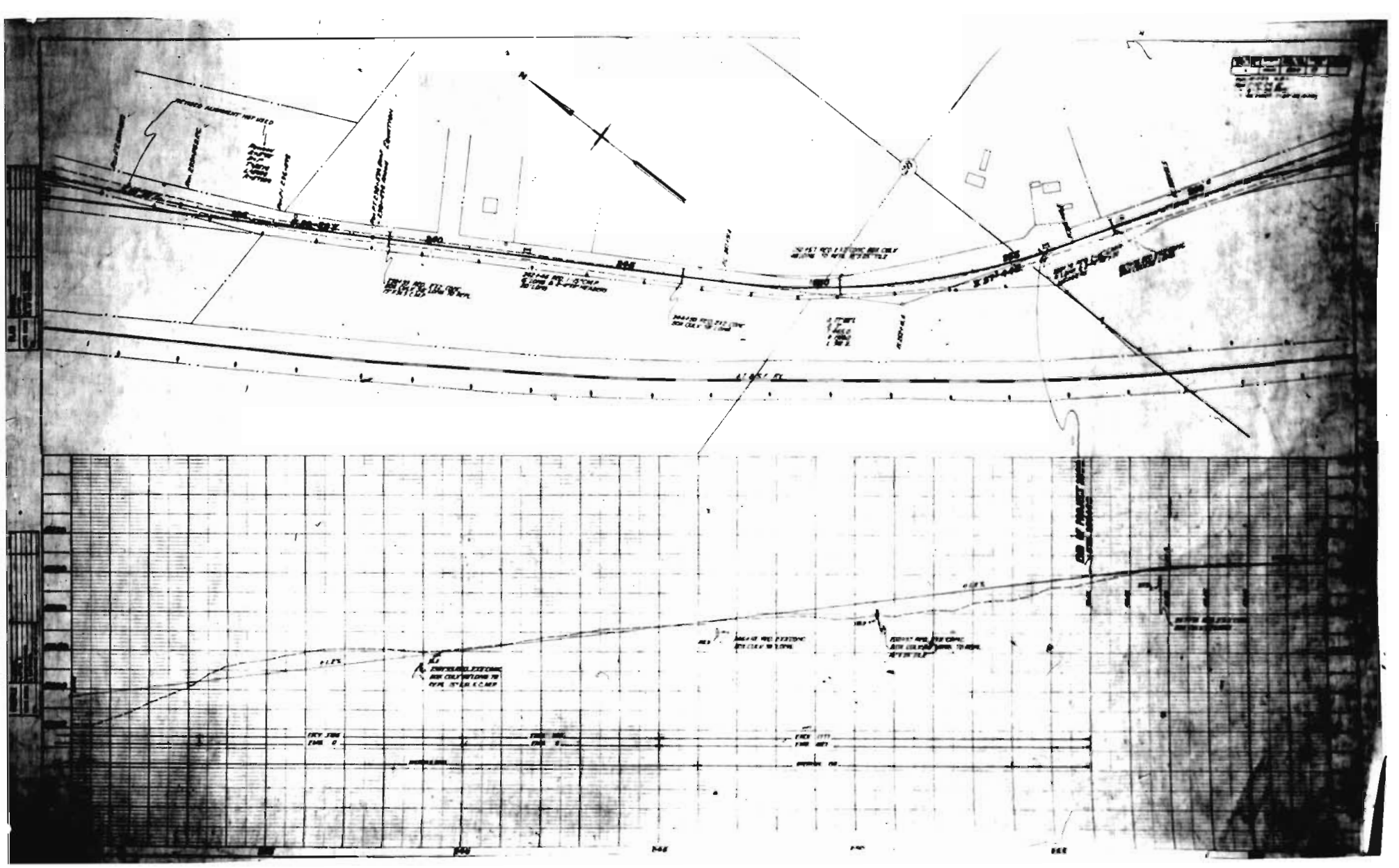
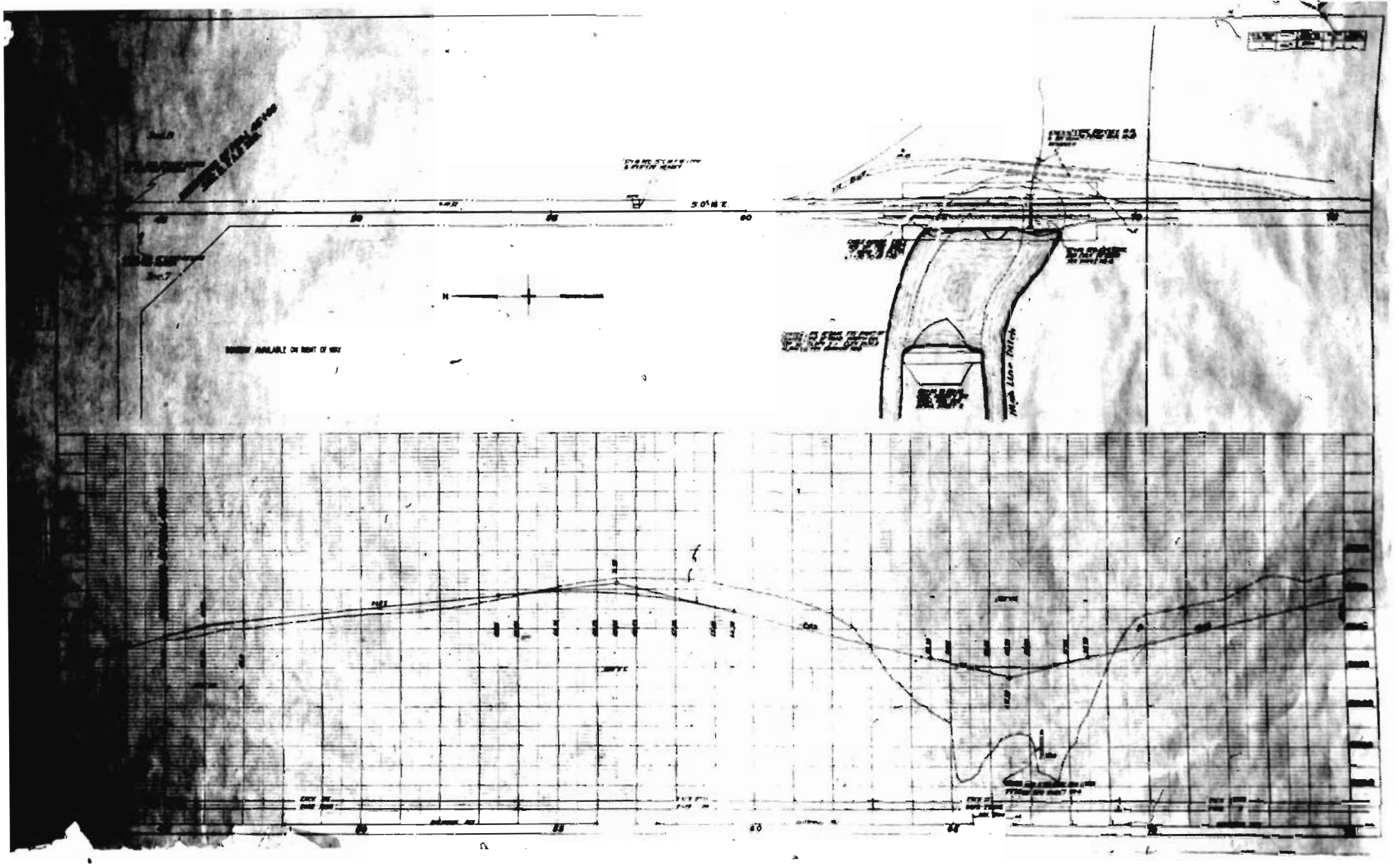

EQUATION
ATSF R.R.
N



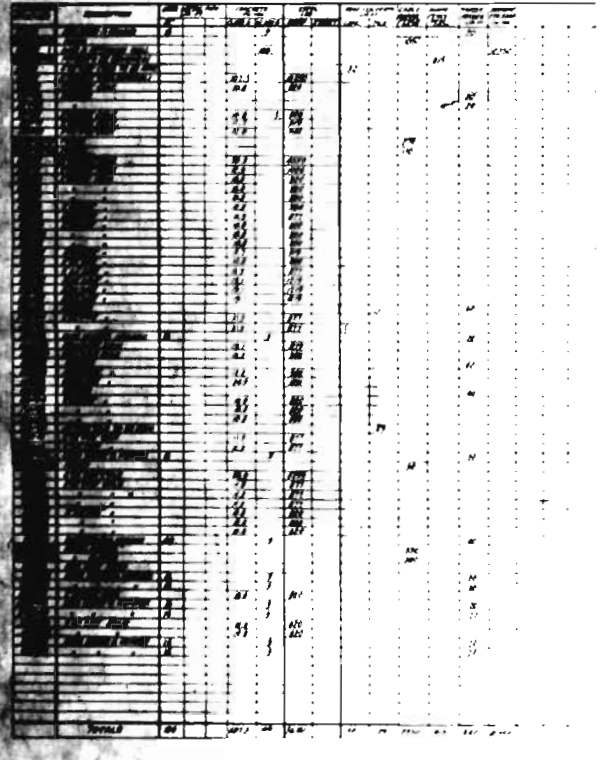


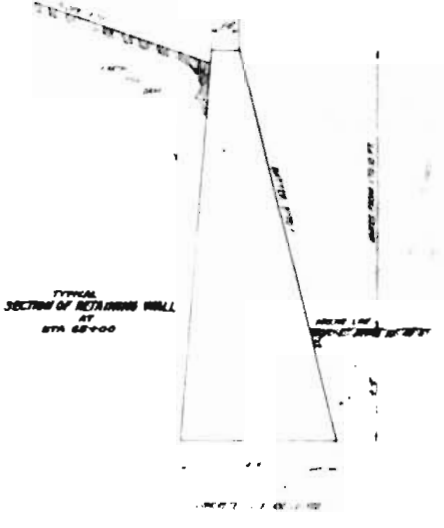


TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

STANDARD CONCRETE PAVEMENT

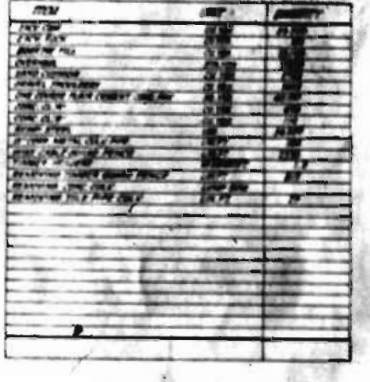
TABULATION OF STRUCTURES

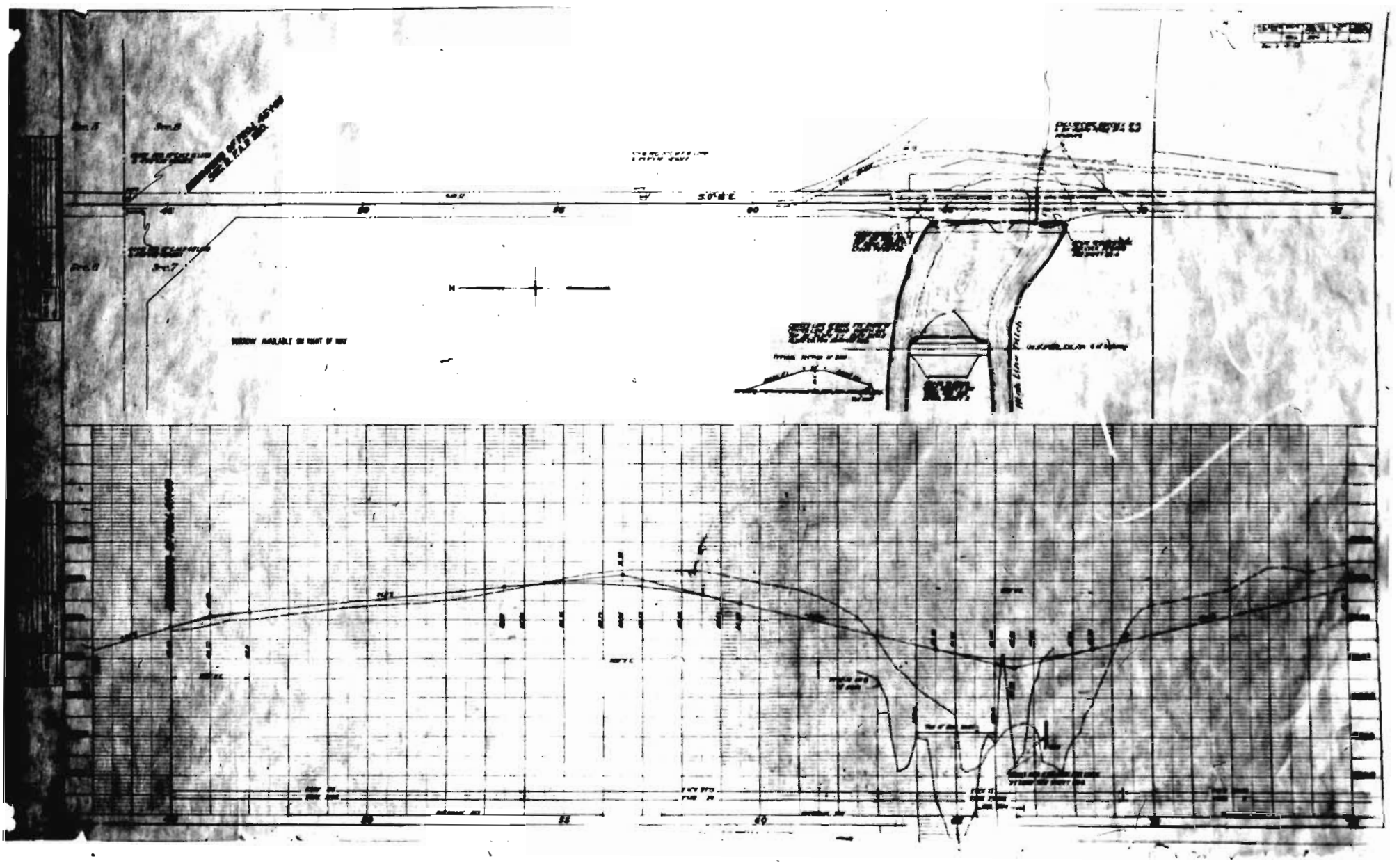




TYPICAL SECTION OF RETAINING WALL AT STA 69+00

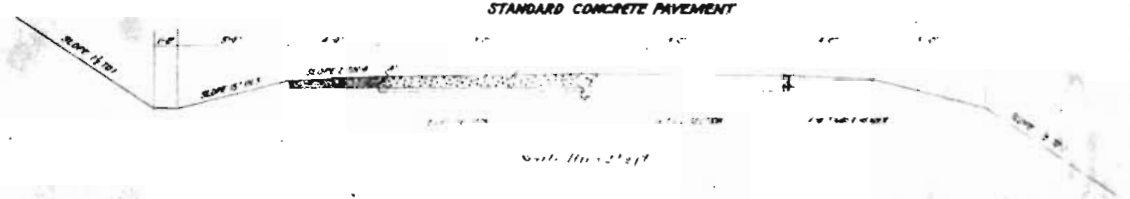
SUMMARY OF QUANTITIES



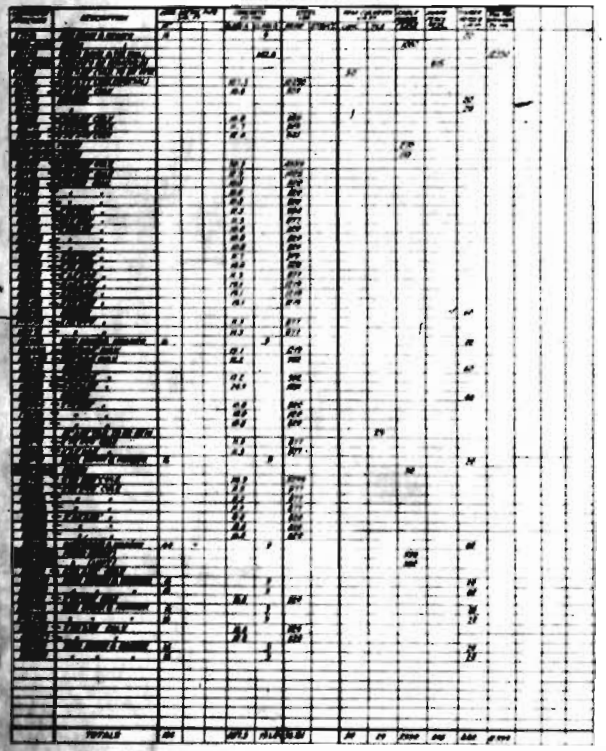


TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

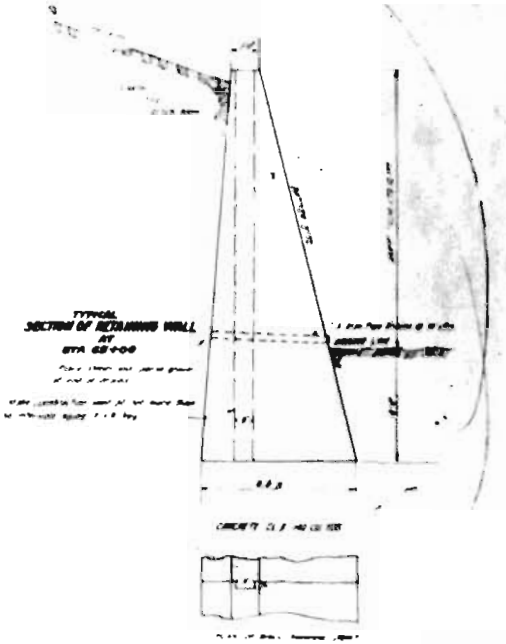
STANDARD CONCRETE PAVEMENT



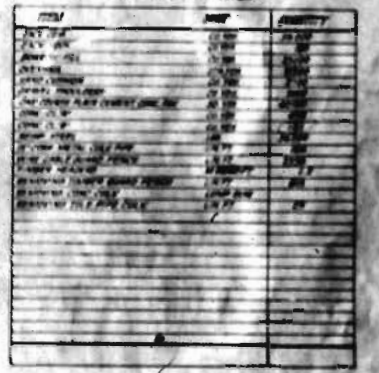
TABULATION OF STRUCTURES

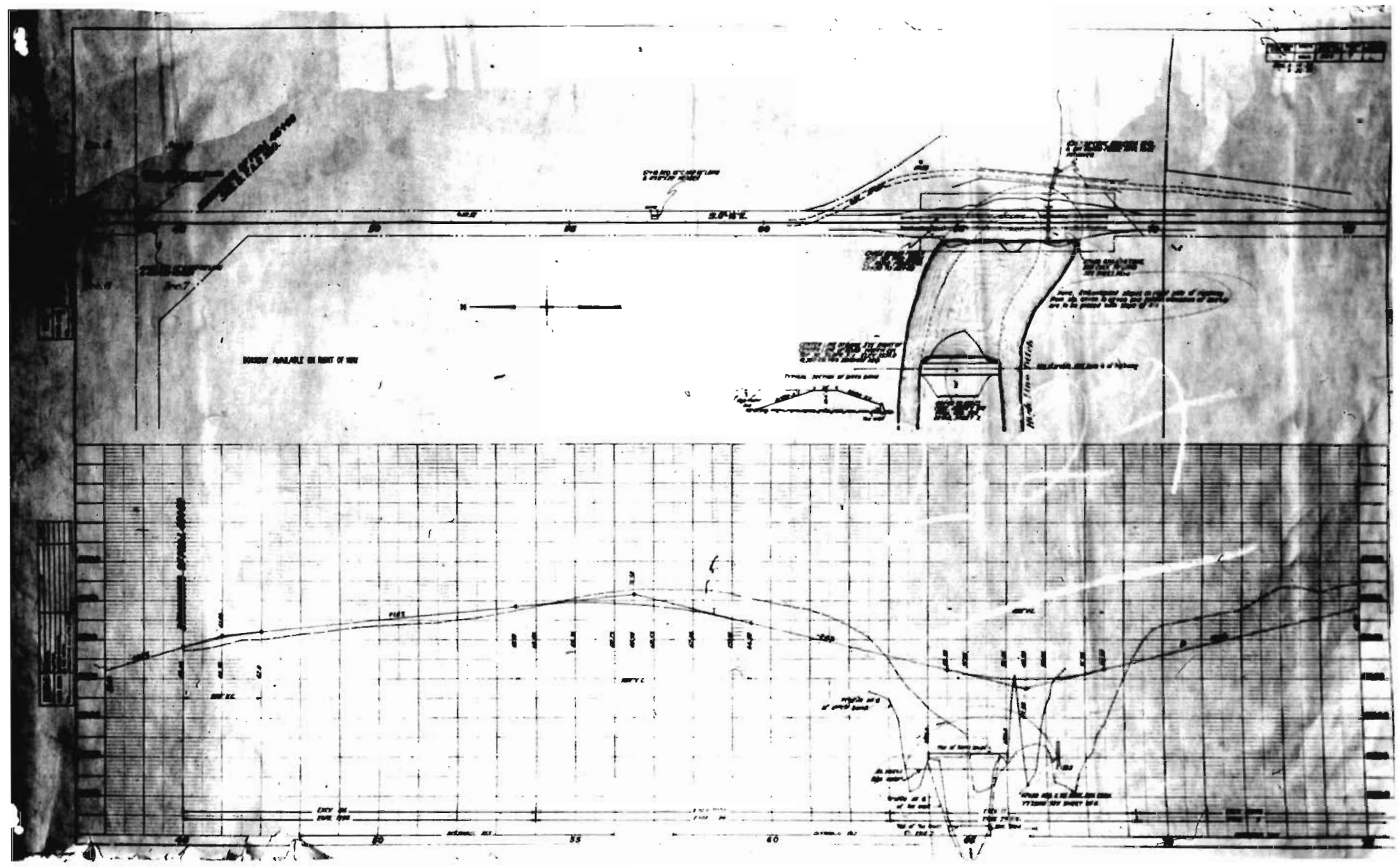


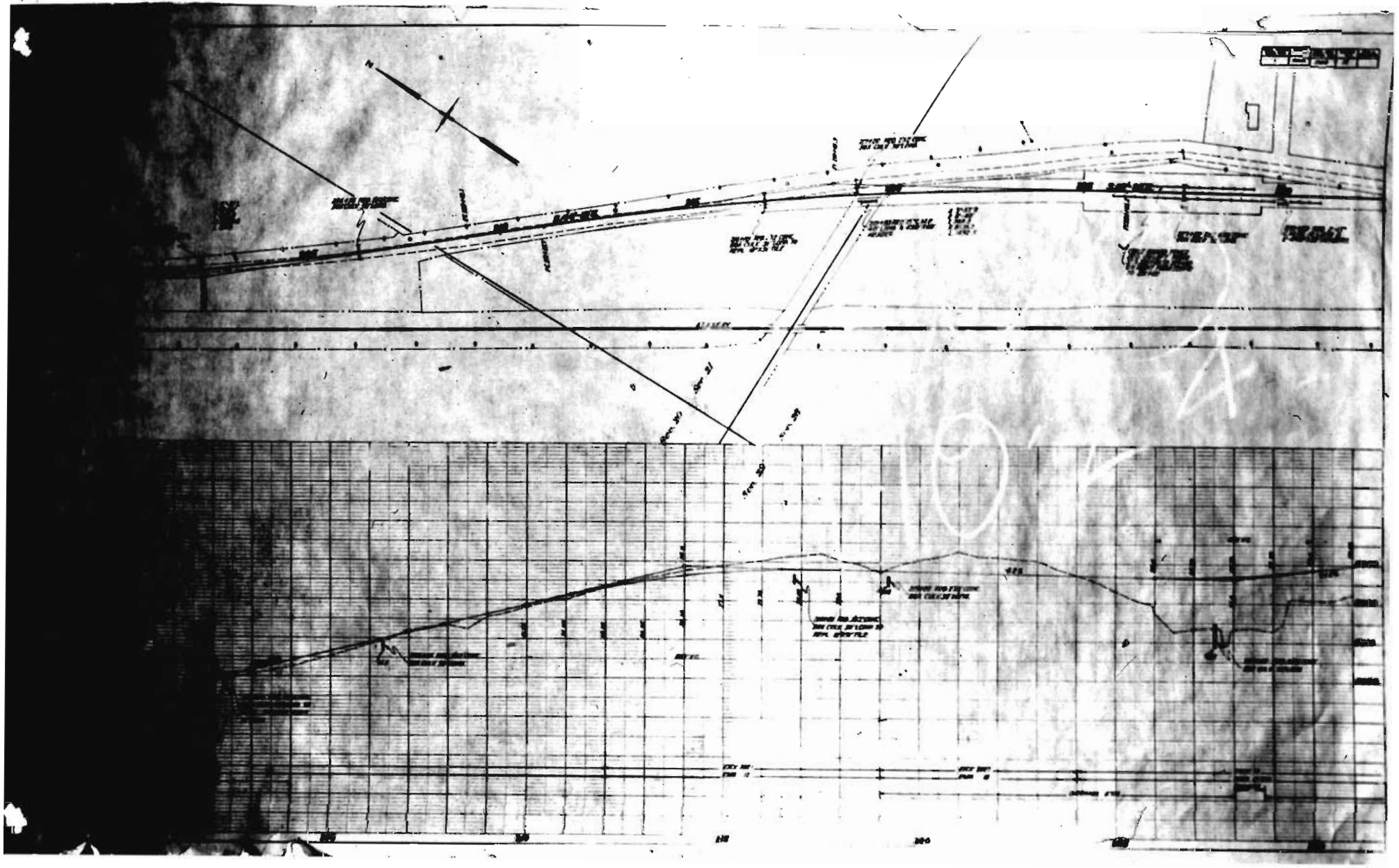
TYPICAL SECTION OF RETAINING WALL AT STA. 65+00

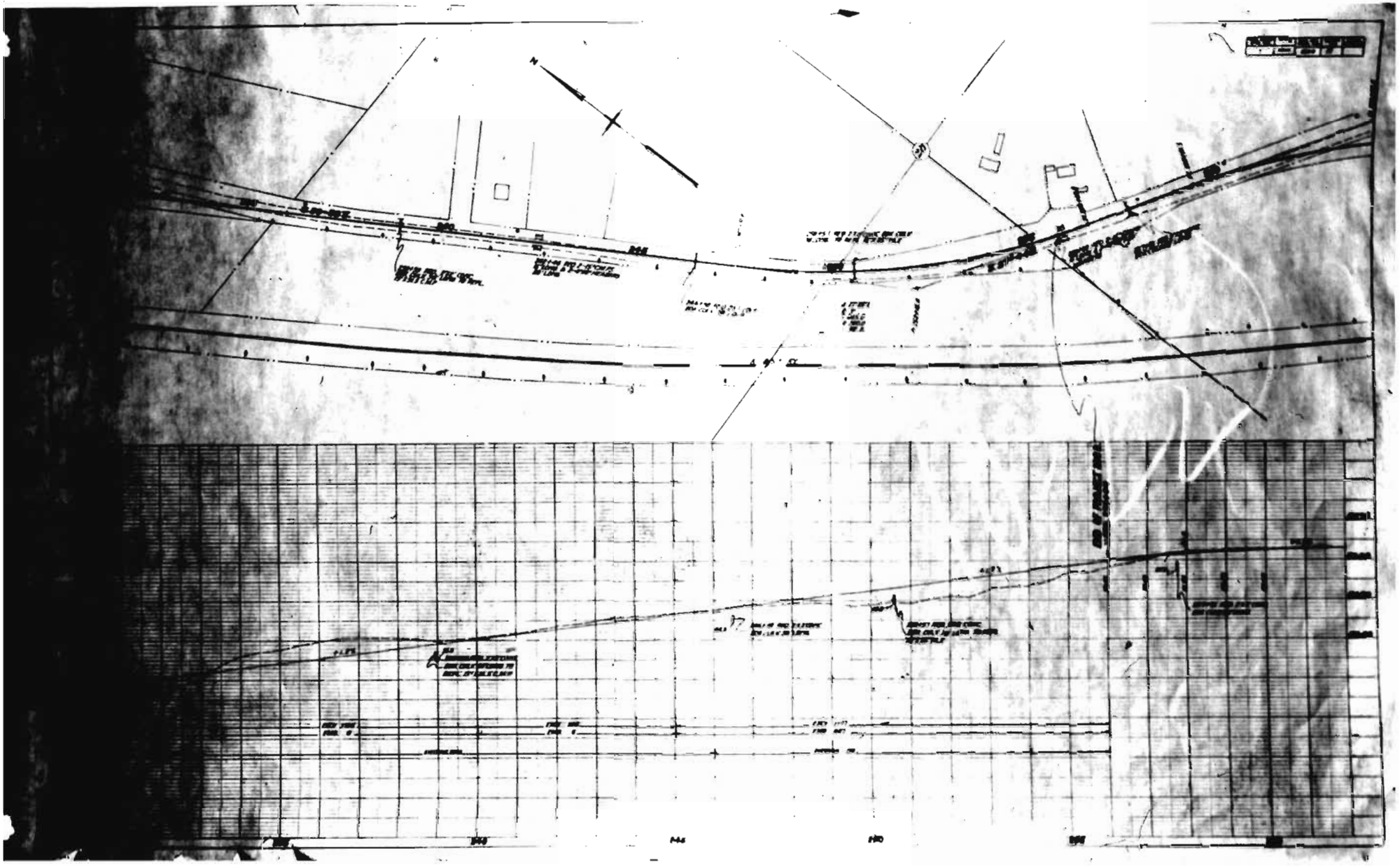


SUMMARY OF QUANTITIES



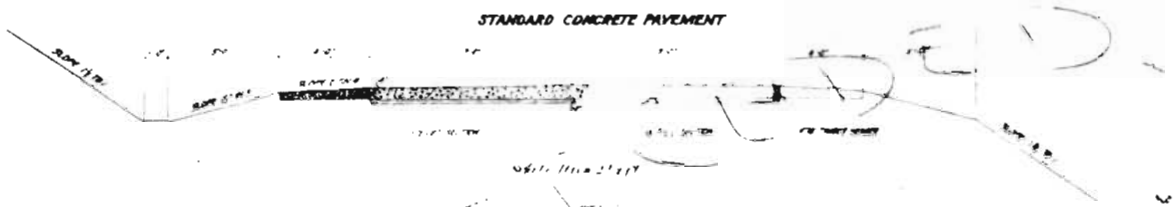




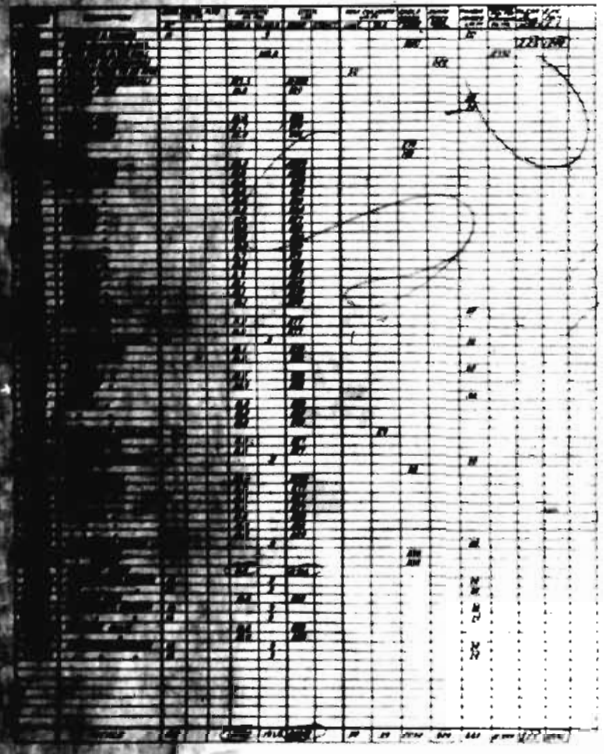


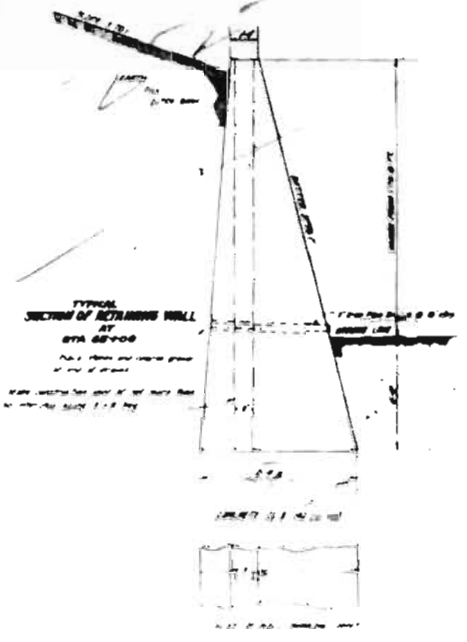
TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

STANDARD CONCRETE PAVEMENT



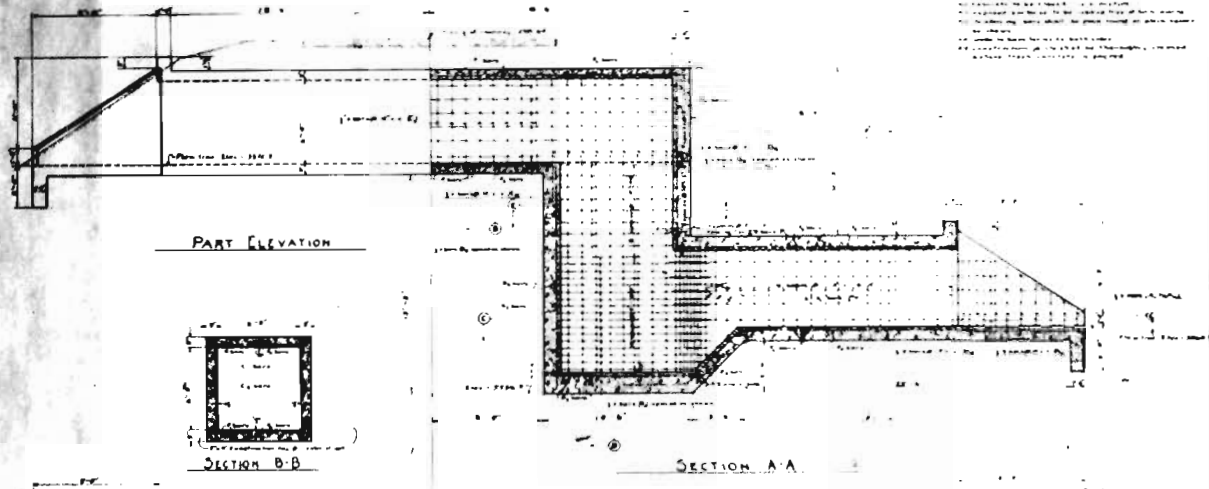
TABULATION OF STRUCTURES

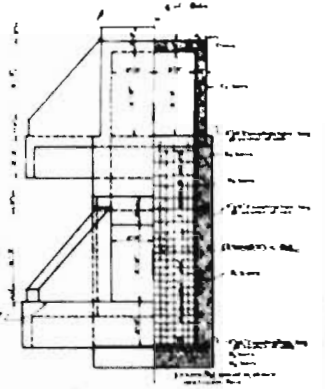


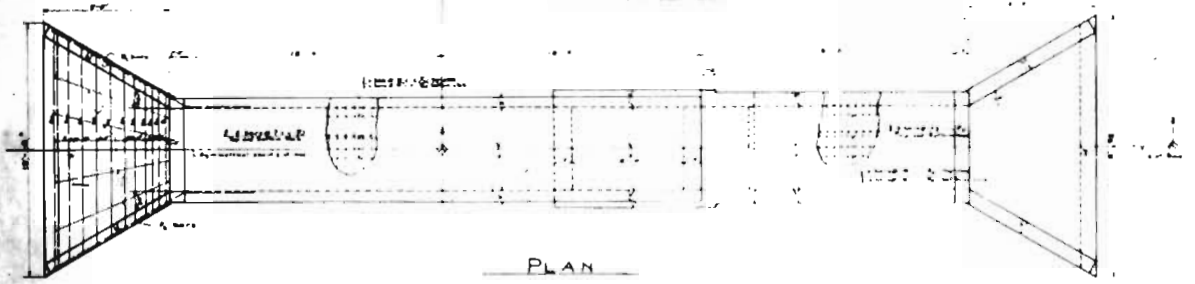


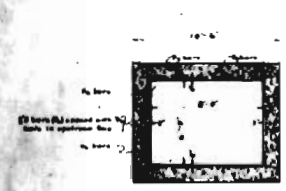
TYPICAL SECTION OF RETAINING WALL AT STA 65+00

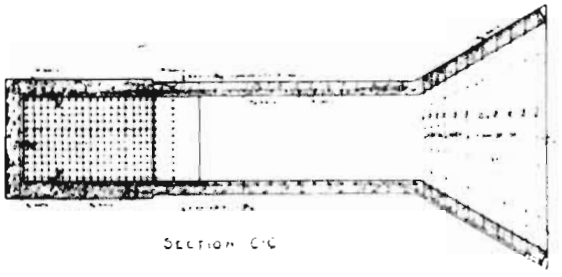
SUMMARY OF QUANTITIES





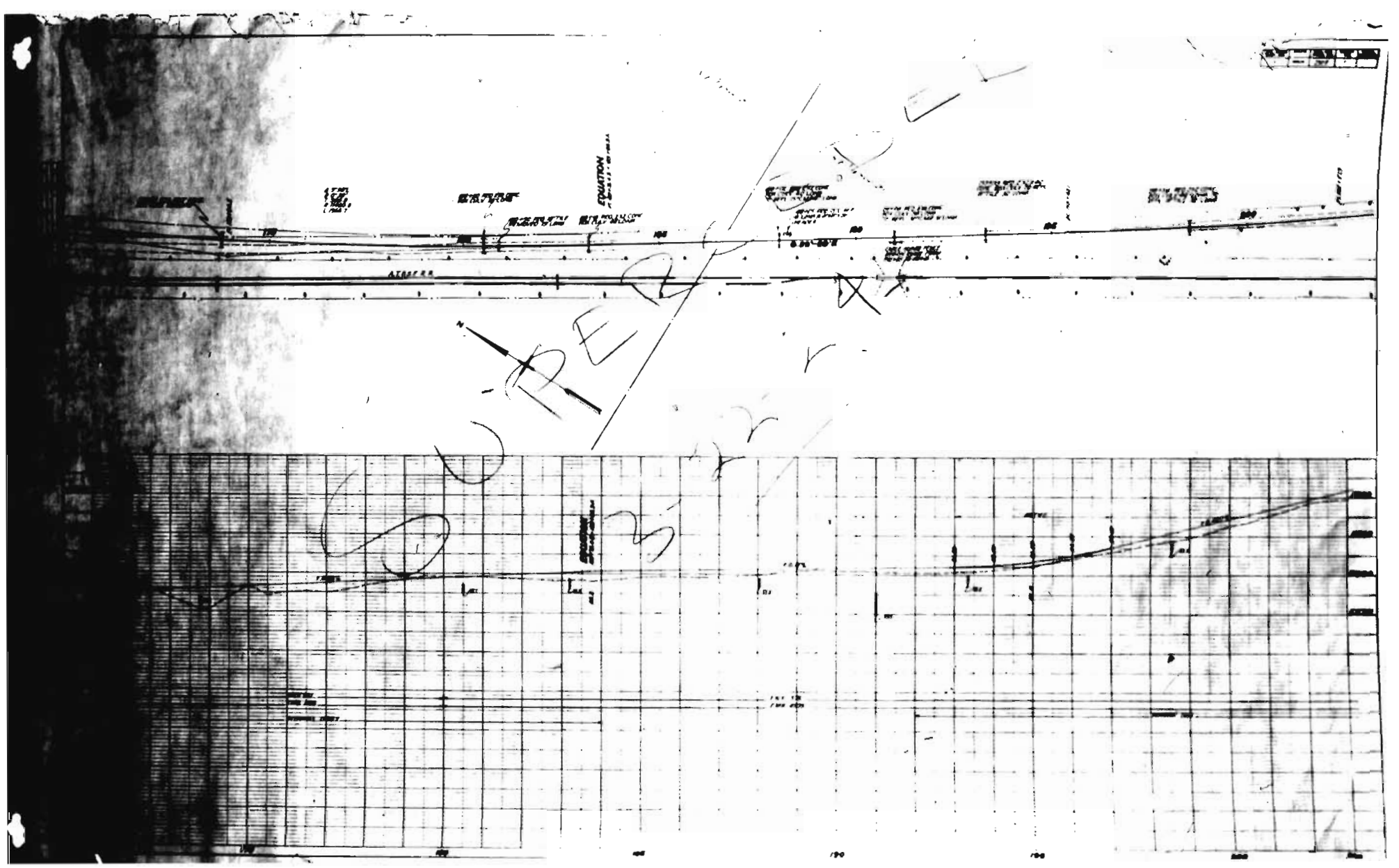






BAR LIST

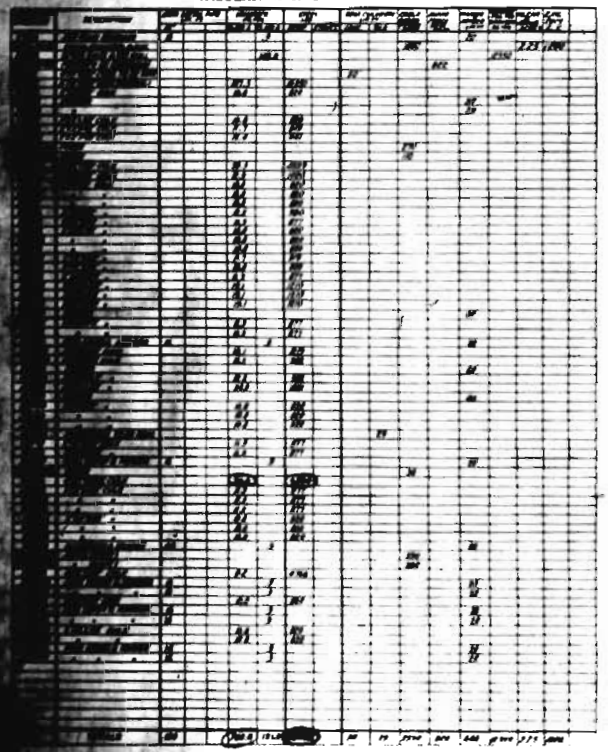
COLORADO
STATE HIGHWAY DEPARTMENT

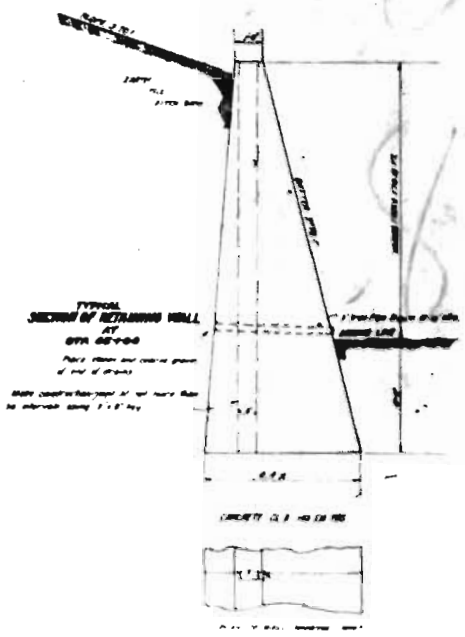


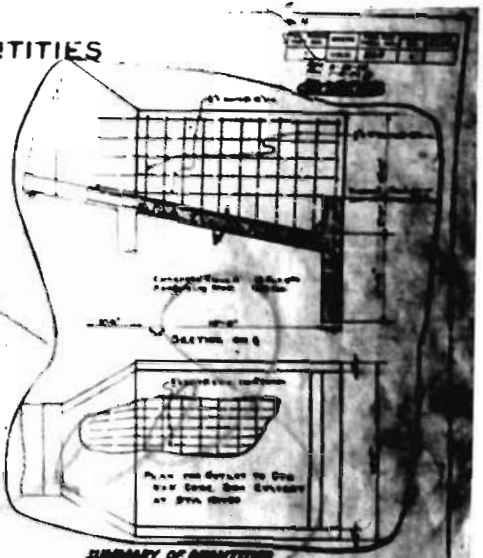
TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

STANDARD CONCRETE PAVEMENT

TABULATION OF STRUCTURES



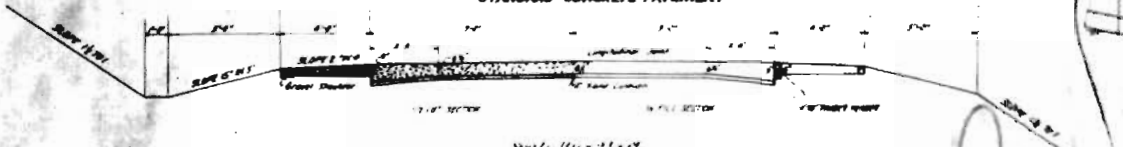


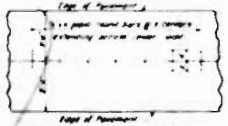


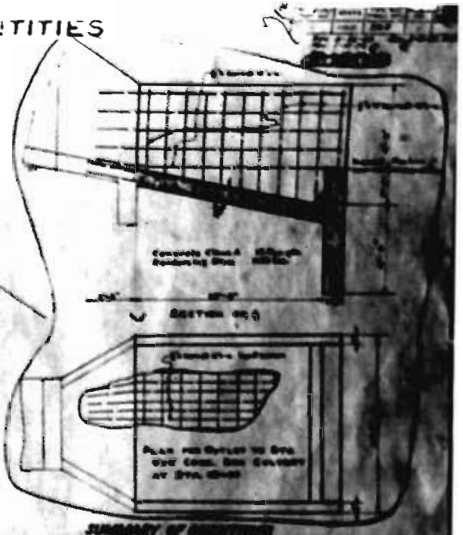
SUMMARY OF QUANTITIES

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

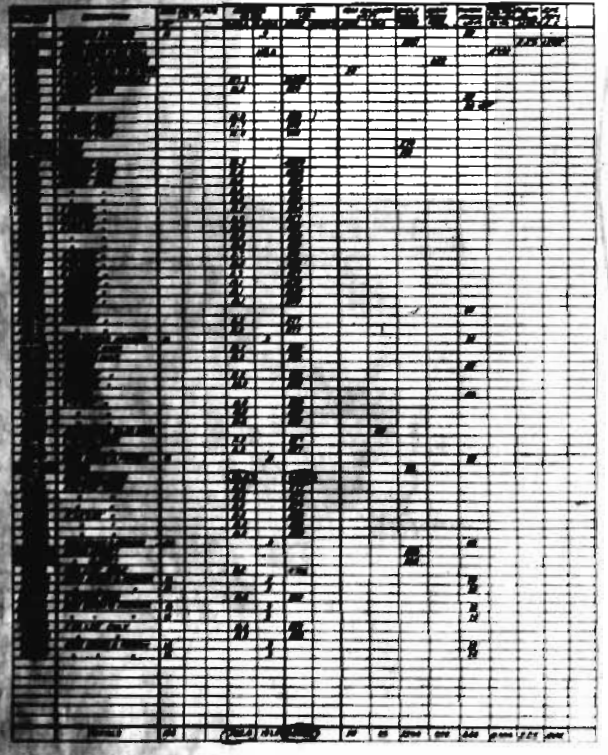
STANDARD CONCRETE PAVEMENT

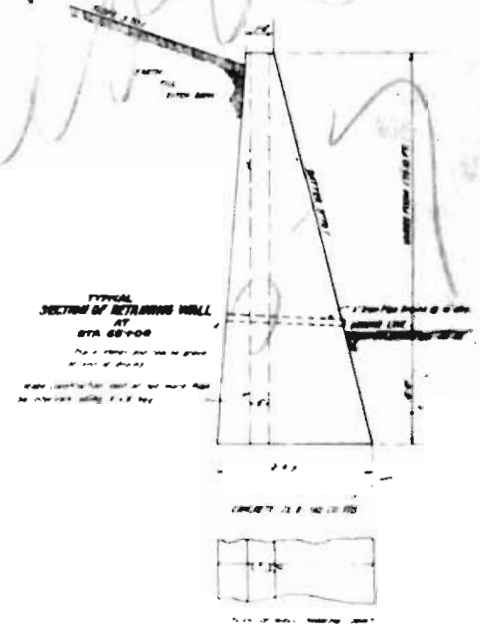






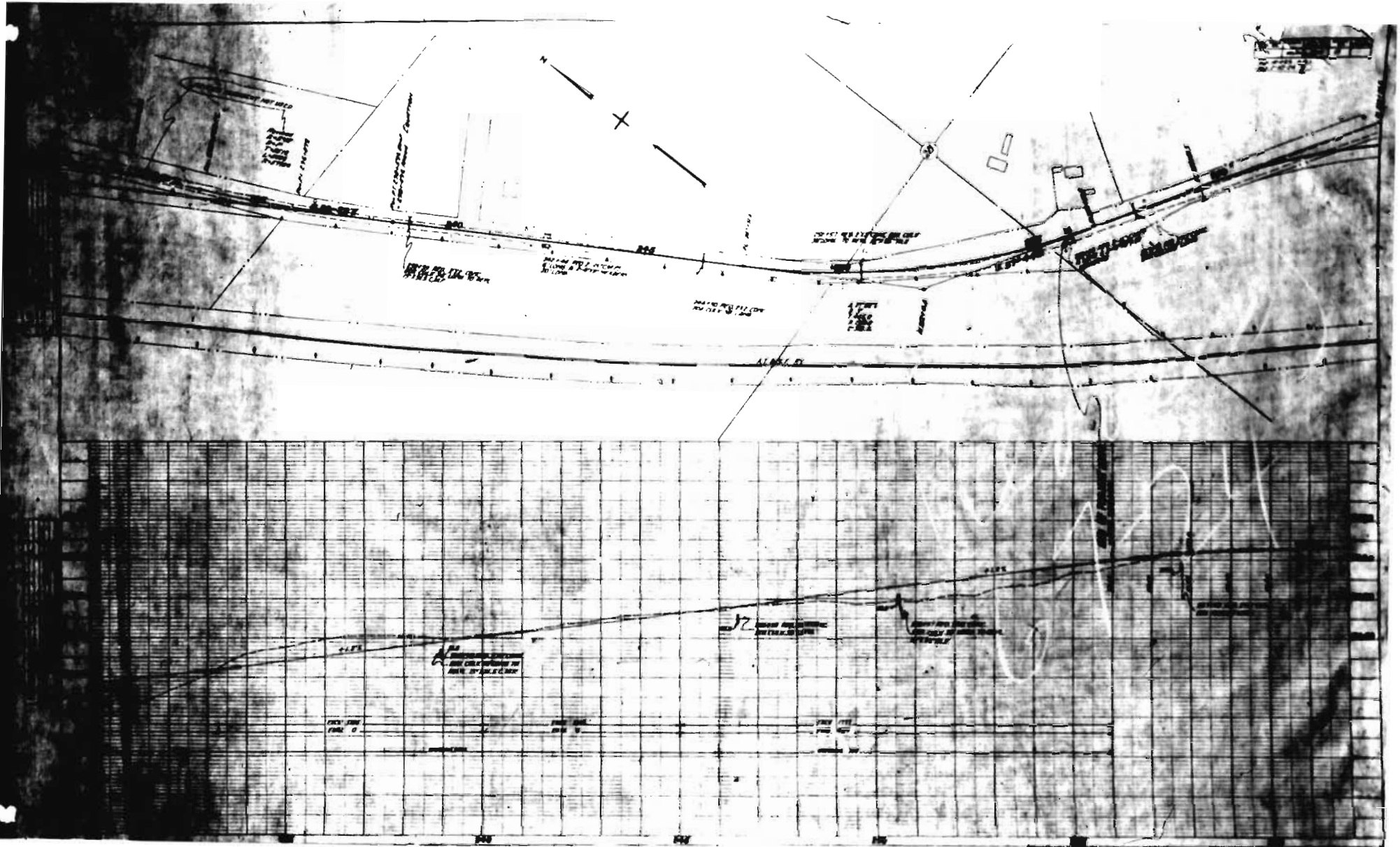
TABULATION OF STRUCTURES





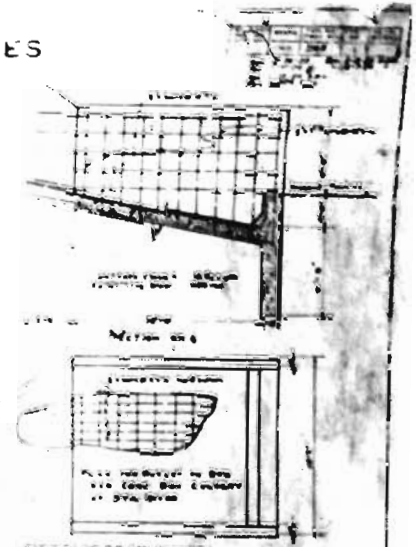
TYPICAL SECTION OF RETAINING WALL AT STA 68+00

SUMMARY OF QUANTITIES

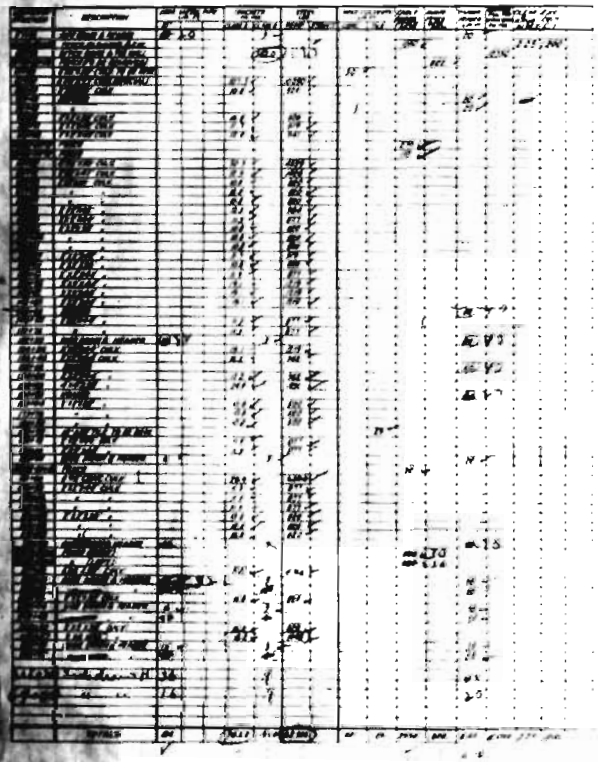


TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

STANDARD CONCRETE PAVEMENT

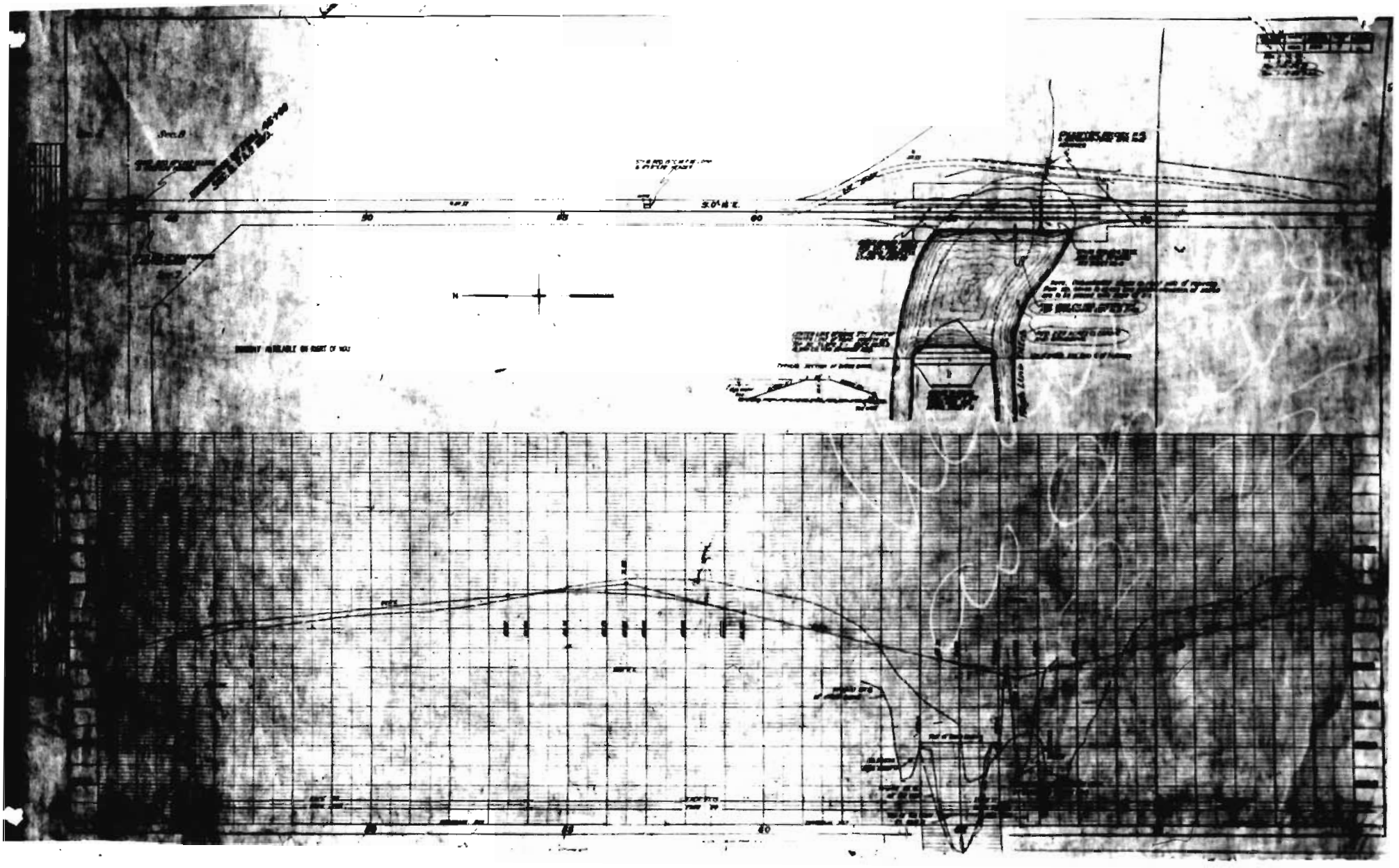


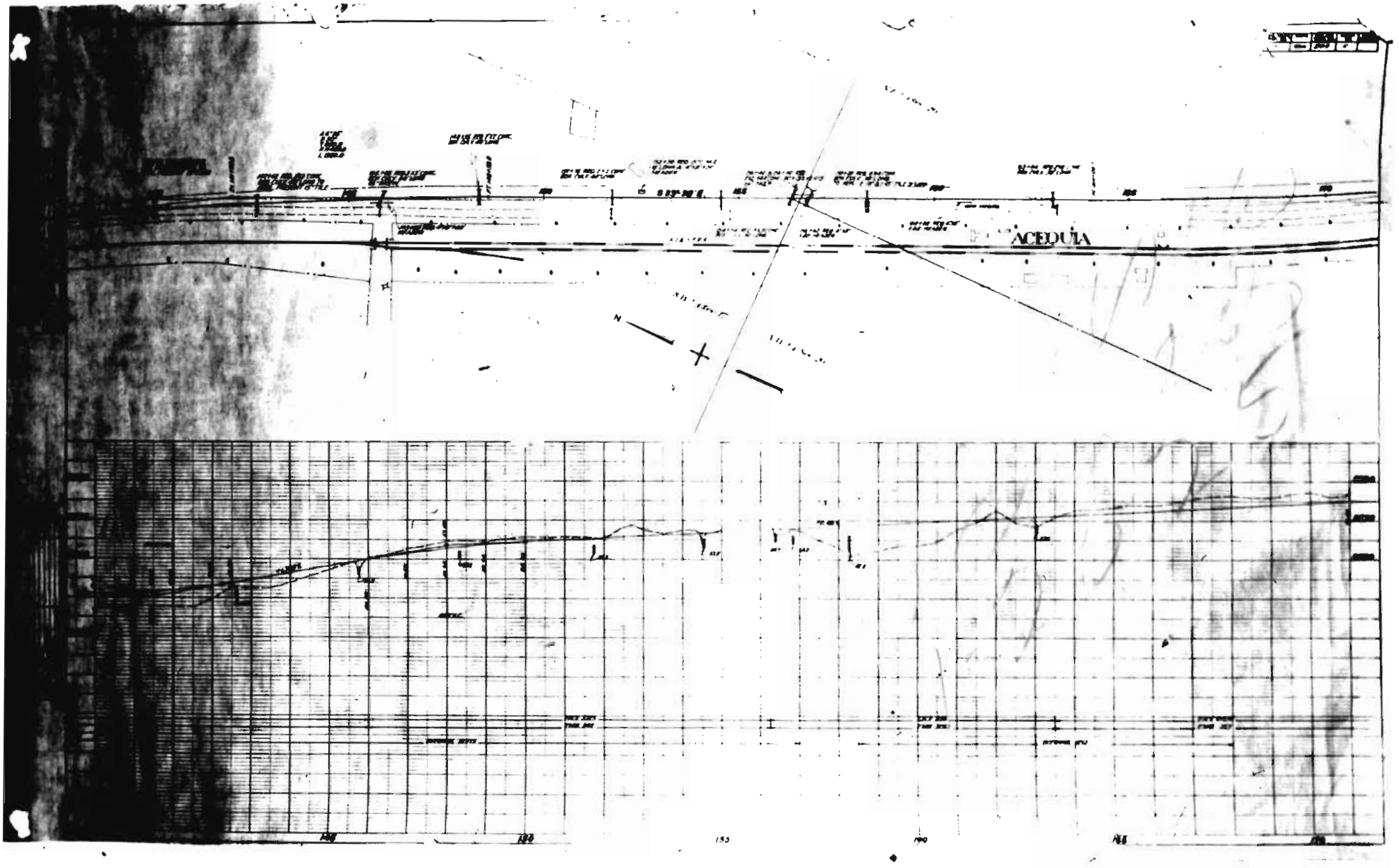
TABULATION OF STRUCTURES



TYPICAL SECTION OF RETAINING WALL AT STA 69+00

SUMMARY OF QUANTITIES

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