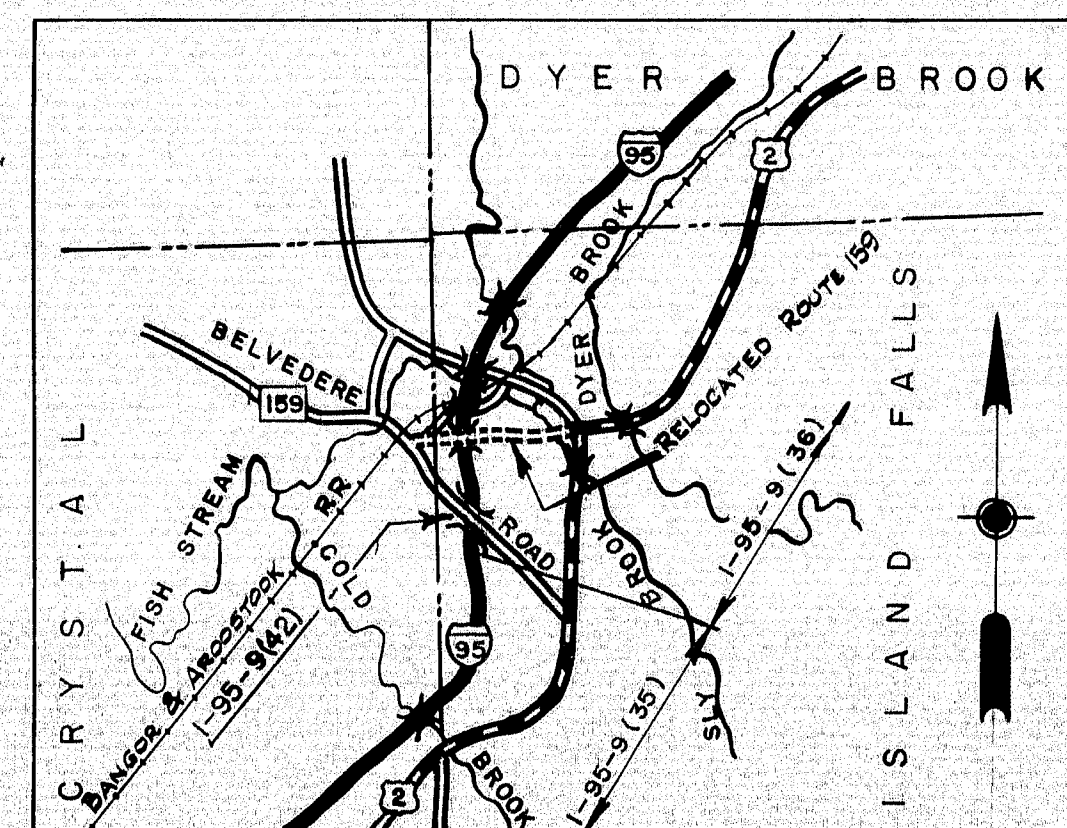


STATE OF MAINE
STATE HIGHWAY COMMISSION



BELVEDERE ROAD
OVER
INTERSTATE 95
IN THE TOWN OF
ISLAND FALLS
AROOSTOOK COUNTY
FEDERAL AID PROJECT NO. I-95-9(42)270



LOCATION MAP
APPROX. SCALE- 1"= 2 MILES

INDEX OF SHEETS

- 1.-----TITLE SHEET
- 2.-----GENERAL PLAN & QUANTITIES
- 3,3A -----FOUNDATIONS SURVEY
- 4,5 -----PLAN & PROFILE
- 6-10B -----CROSS SECTIONS
- 11 -----ABUTMENT NO. 1
- 12 -----ABUTMENT NO. 2
- 13 -----PIERS
- 14 -----STRUCTURAL STEEL
- 15 -----BLOCKING
- 16-16B -----SUPERSTRUCTURE
- 17 -----SLOPE PROTECTION
- 18 -----REINFORCING STEEL SCHEDULE

STANDARD DETAILS

- | | |
|-----------|--|
| BD 101-64 | BEARING PEDESTALS |
| BD 103-64 | BEAM SPLICES |
| BD 104-66 | DIAPHRAGMS, ARMORED JOINT, SHEAR CONNECTORS, DRAIN |
| BD 105-64 | EXPANSION DAMS |
| BD 109-66 | STEEL RAIL |
| BD 108-65 | ALUMINUM RAIL |

- (5) Dec. 1966 Guard Rail, etc.
(8) Dec. 1966 Field Office -Type "B", etc.

TRAFFIC

BELVEDERE ROAD		
A.D.T.	1967	125
A.D.T.	1987	185
D.H.V.		30
D		60%
T		14%
V		60 M.P.H.

APPROVED
MAINE STATE HIGHWAY COMMISSION

Don J. Stuenkel
CHAIRMAN
Robert G. L. Chard
Steven D. Shaw
Sylvester L. Fox
CHIEF ENGINEER

March 22, 1967
DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

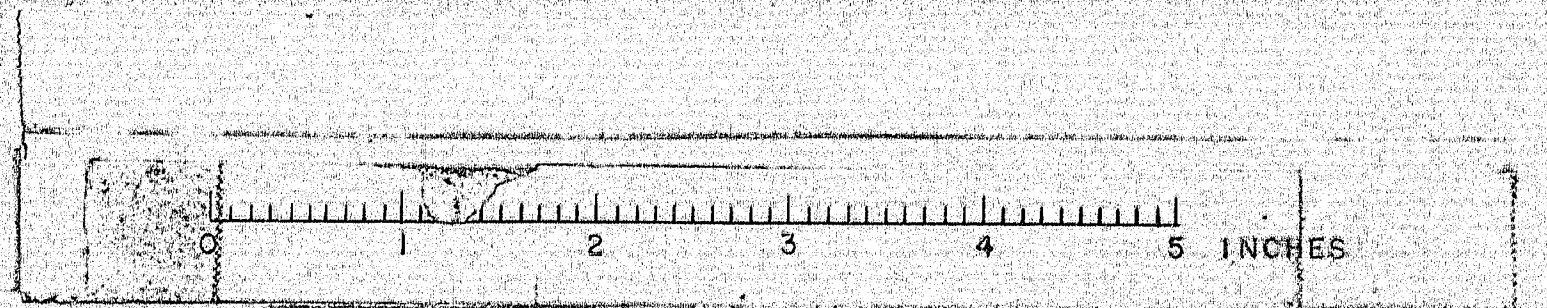
REGION 1

APPROVED

DIVISION ENGINEER

DATE

101-184



SPECIFICATIONS

DESIGN
M.S.H.O. Standard Specifications for Highway Bridges 1961, with Interim Specifications thru 1964.

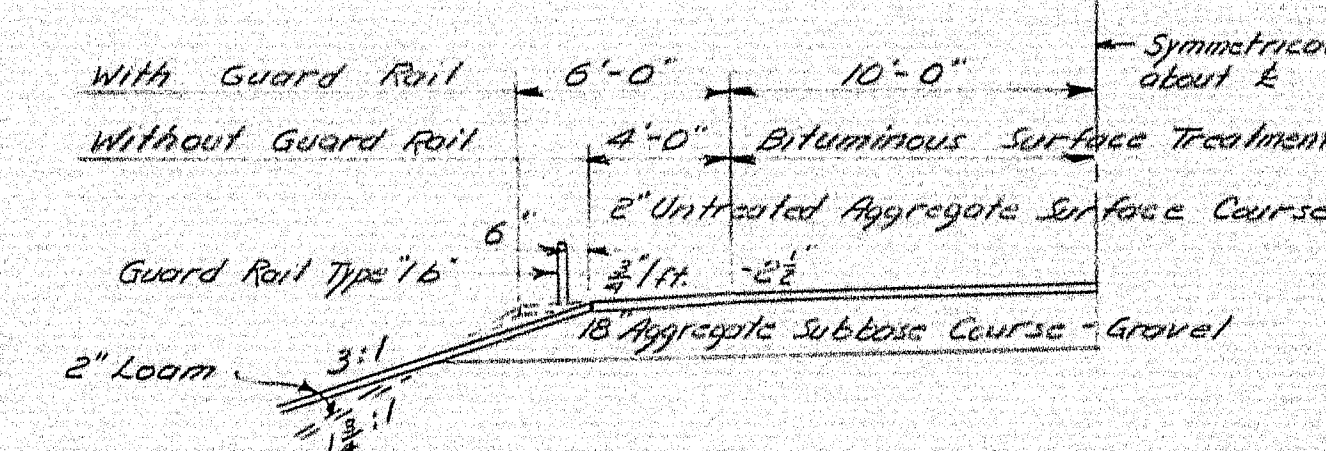
CONTRACT
State of Maine, State Highway Commission Standard Specifications for Highways and Bridges, Revision of June 1965, and Supplemental Specifications.

LIVE LOADING
H20-44

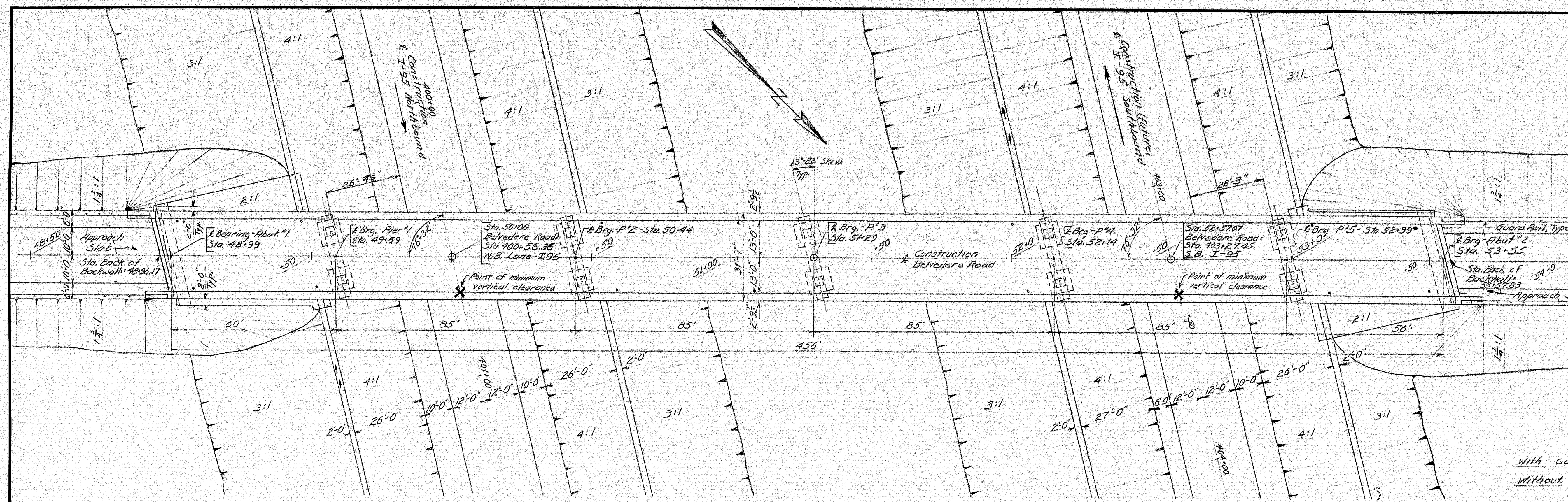
ALLOWABLE STRESSES
Concrete - $f_c = 1200 \text{ psi}$ $n=10$
Reinforcing Steel, Intermediate Grade
 $f_s = 20,000 \text{ psi}$
Structural Steel
A36 = 20,000 psi
A441 = 27,000 psi (Group 1)
25,000 psi (25 $\frac{3}{4}$ to 12 in.)

CONCRETE CLASSIFICATION
All concrete shall be Class A except Slope Protection - Class Y.

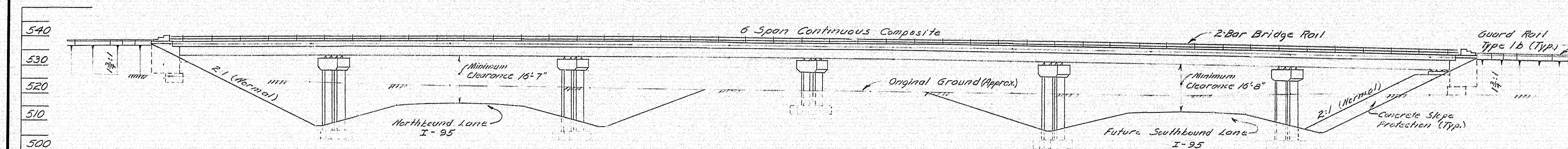
STRUCTURAL STEEL CLASSIFICATION
Stringers and Cover Plates at Piers to be A441 (See Structural Steel Details).
High Tensile Strength Bolts - A325.
All other material (Rivets, Stringers, Diaphragms, bearings, etc.) to be A36.
(See Structural Steel Details).
Above Classifications are A.S.T.M. Designations.



SECTION - BELVEDERE ROAD



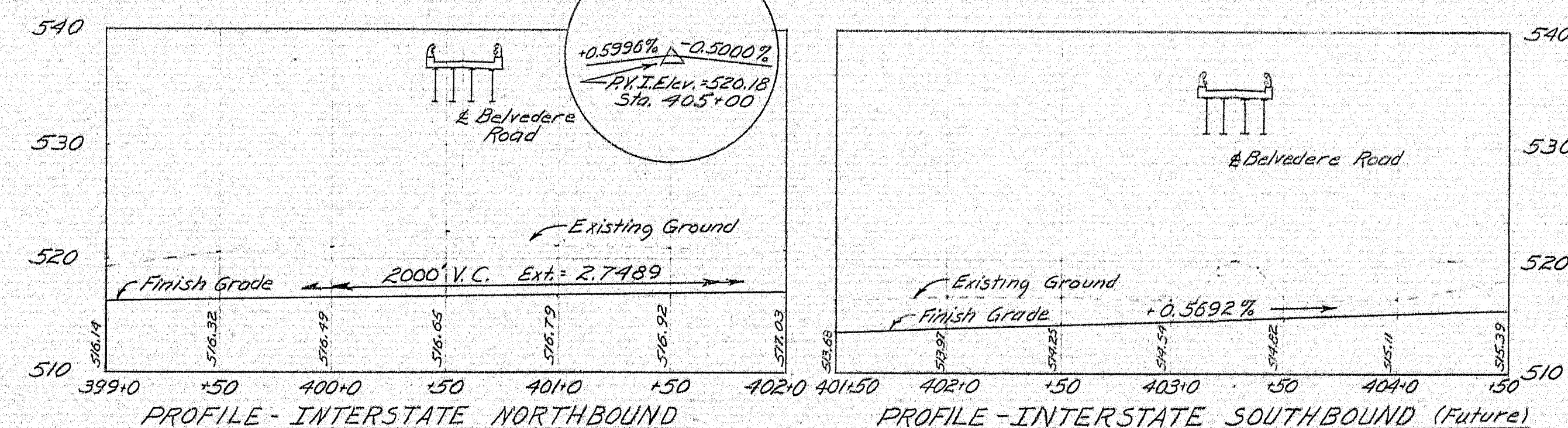
PLAN
Scale: 1" = 20'



ELEVATION
Scale: 1" = 20'

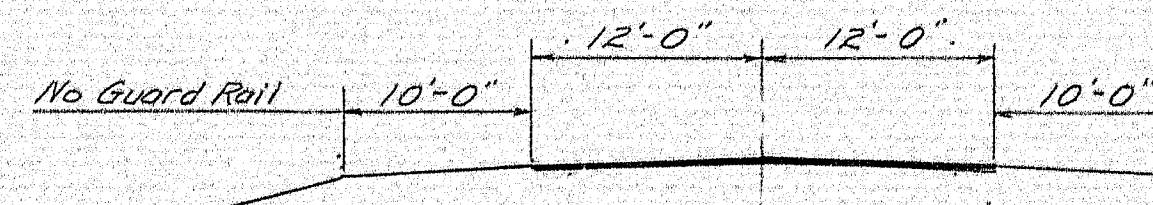
ESTIMATE OF QUANTITIES				
DESCRIPTION	UNIT	QUANTITY	DESCRIPTION	UNIT QUANTITY
Clearing	acre	1	Structural Steel, Fabricated & Delivered	Ls. 2.5
Common Excavation	c.y.	8930	Structural Steel, Erection	Ls. 2.5
Common Borrow	c.y.	3500	Shear Connectors	Ls. 2.5
Gravel Borrow	c.y.	825	Field Painting - Structural Steel	Ls. 2.5
Str. Earth Exca. - Piers	c.y.	460	Bridge Railing	Ls. 918
Aggregate Subbase Course - Gravel	c.y.	1900	Membrane Water proofing	S.Y. 1317
Hot Bituminous Pavement (Grading C-1)	ton	147	Slope Protection	S.Y. 517
Bit. Material for Prime Coat	gal.	1160	Curing Box for Concrete Cylinders	each 1
Blotter Material	c.y.	30	Epoxy Resin Surface Sealant	S.Y. 91
Bit. Material for Seal Coat	gal.	475	Guard Rail, Type 16	Ls. 680
Cover Coat Material - Sand	c.y.	30	Anchorage for Cable Guard Rail	each 4
Untreated Aggregate Surface Course	c.y.	195	Vertical Bridge Curb - Type 1	Ls. 944
Struct. Concrete - Abut. & Ret. Walls	c.y.	145	Loom	c.y. 220
Struct. Concrete - Piers	c.y.	225	Seeding - Method "E"	units 34
Struct. Concrete - Reinforced Slabs on Steel Bridges	Ls.	2.5	Hay Mulch	ton 2.5
Struct. Concrete - Approach Slabs	Ls.	4.5	Field Office, Type B	each 1
Reinf. Steel - Fabricated & Delivered	lbs.	137,000		
Reinf. Steel - Placing	lbs.	137,000		

Estimated weight of structural steel, based on nominal sizes and not including welds = 316,000 lbs.
Estimated Quantity of structural concrete, Roadway and Sidewalk Slabs on Steel Bridges = 420 c.y.
Estimated Quantity of structural concrete, Approach Slabs = 19 c.y.

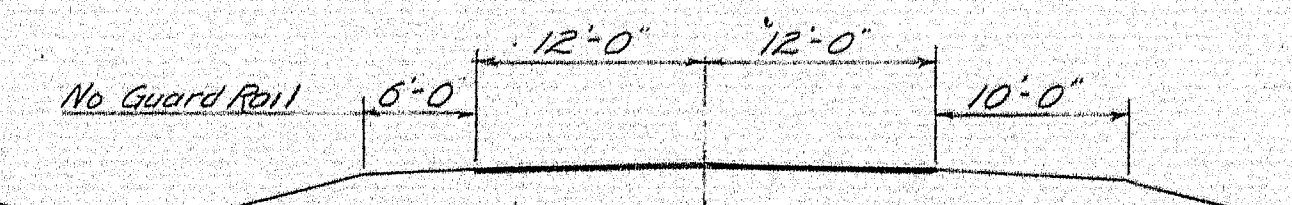


PROFILE - INTERSTATE NORTHBOUND

PROFILE - INTERSTATE SOUTHBOUND (Future)



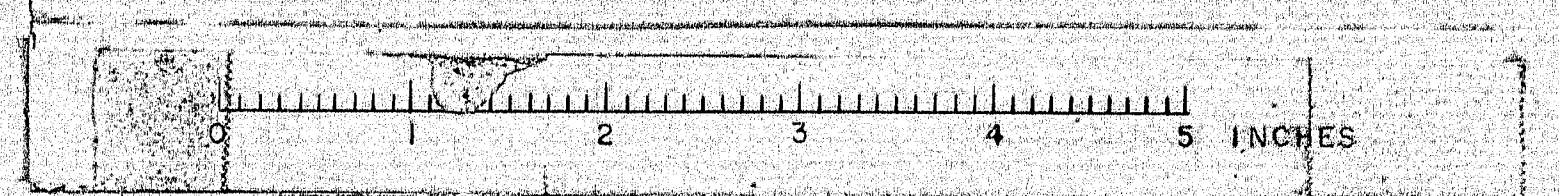
TYPICAL SECTION
I-95 NORTHBOUND



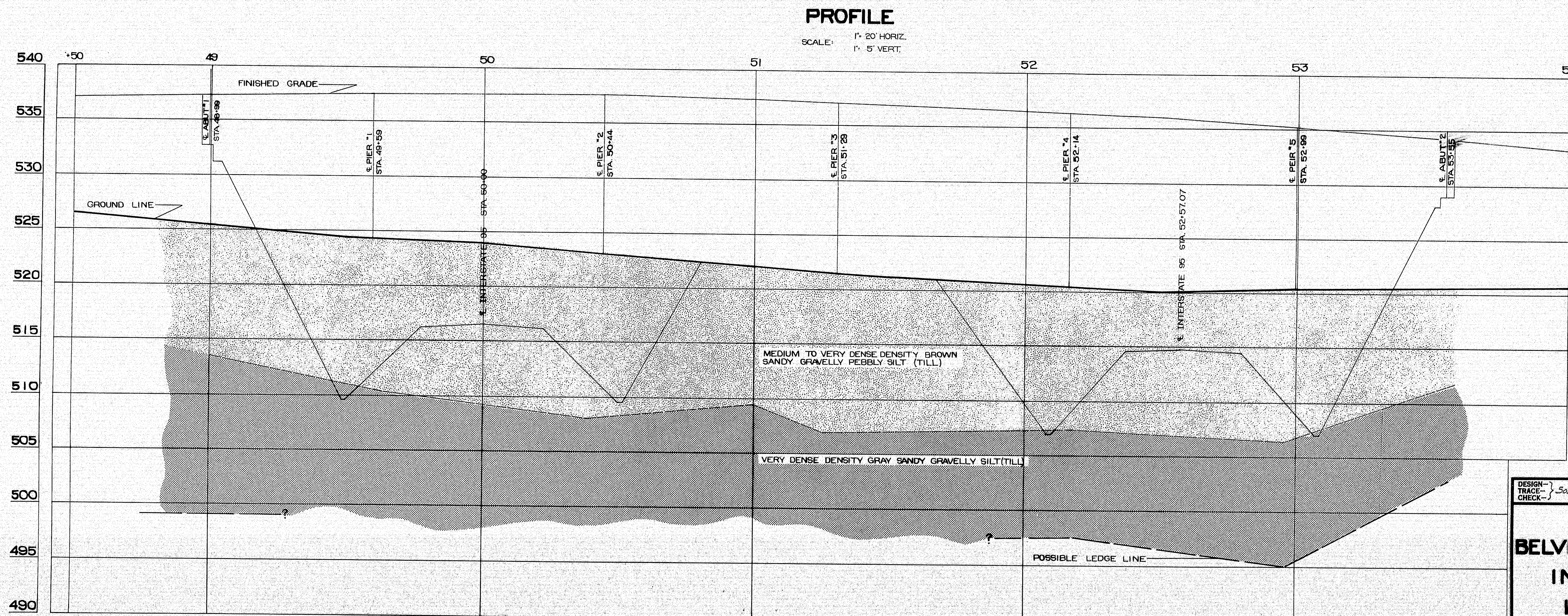
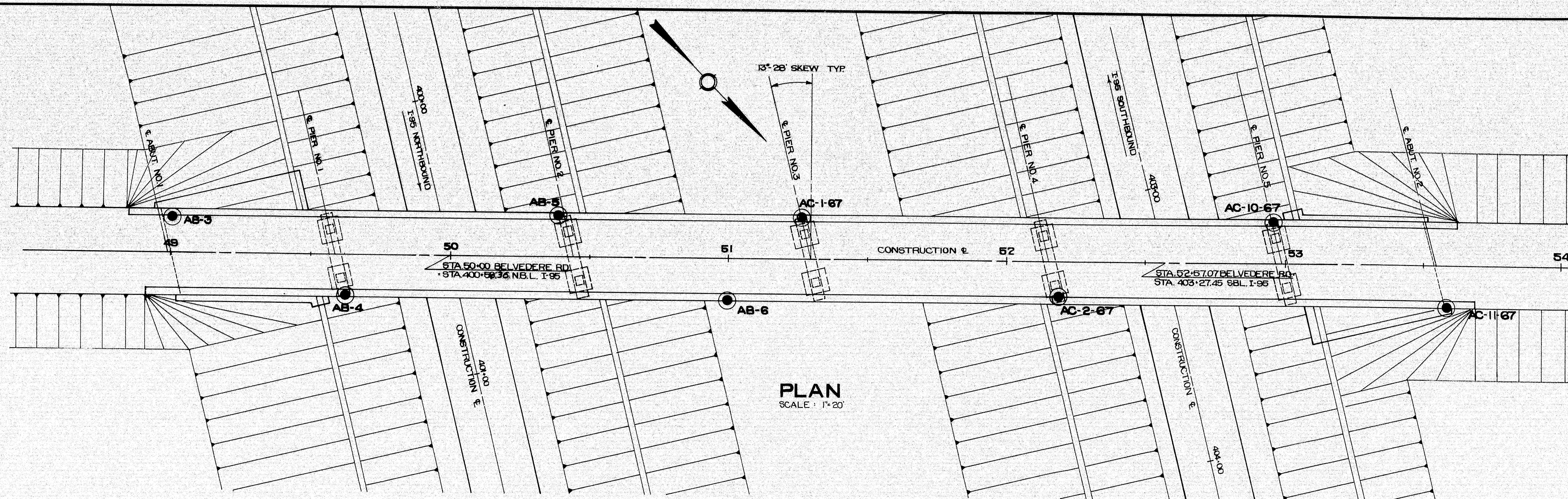
TYPICAL SECTION (with traffic)
I-95 SOUTHBOUND
(Future)

DESIGN - J.M.L.	DETAIL - J.M.L.	BRIDGE NO. SURVEY - 101-185
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
BELVEDERE ROAD		
OVER		
INTERSTATE 95		
IN THE TOWN OF		
ISLAND FALLS		
AROOSTOOK COUNTY		
GENERAL PLAN		
SHEET 2 OF 18 AUGUSTA, MAINE MARCH 1967		

101-185



B. P. D. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-9(42)	3	18



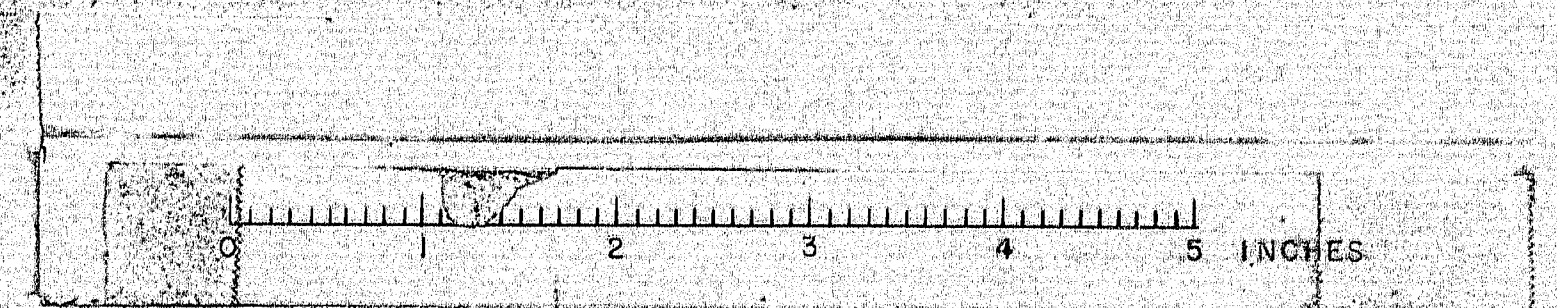
DESIGN: Soils Division
TRACE: SURVEY
CHECK: PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

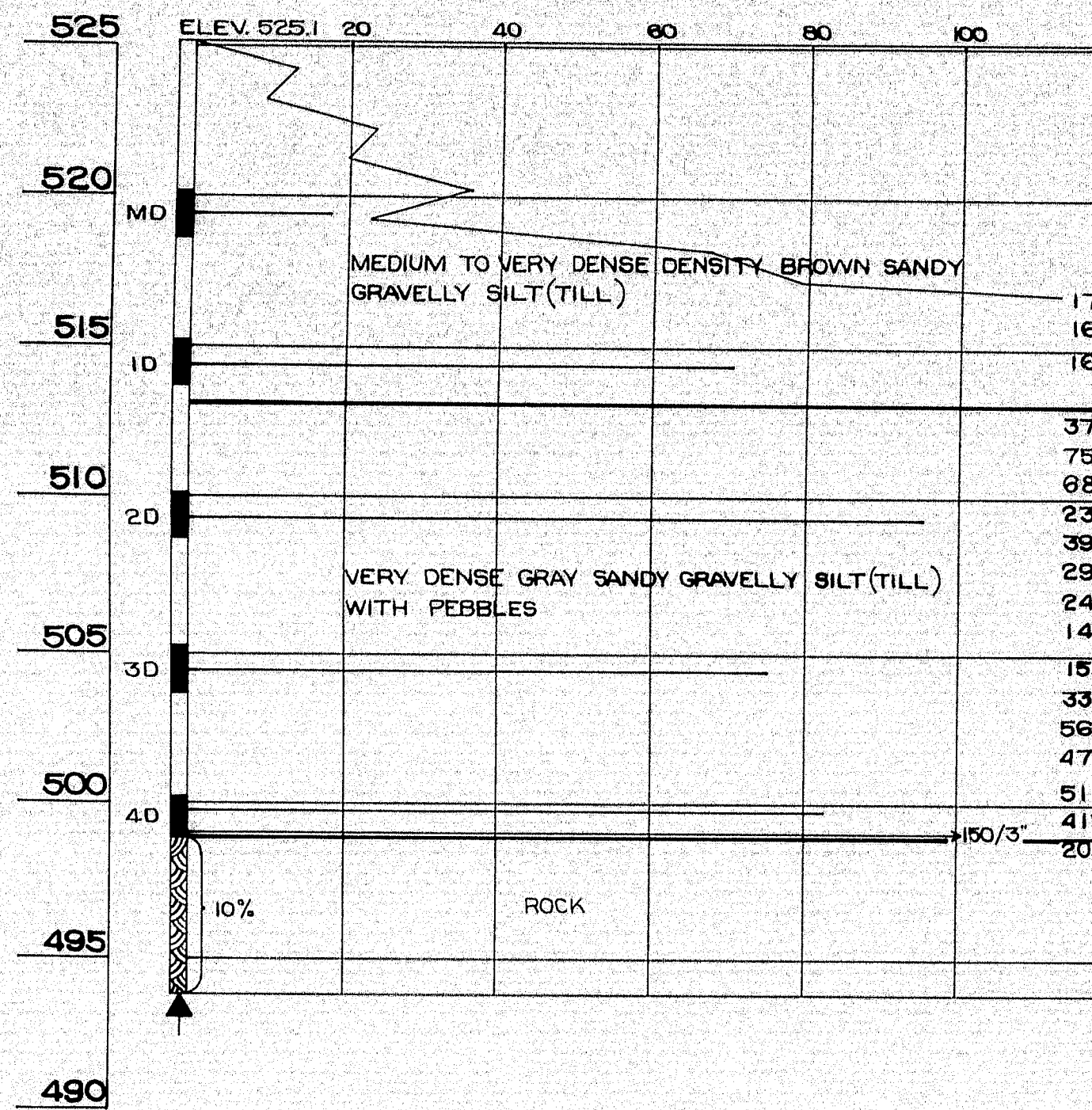
BELVEDERE ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
ISLAND FALLS
AROOSTOOK COUNTY
FOUNDATION SURVEY

SHEET 3 OF 18 AUGUSTA, MAINE

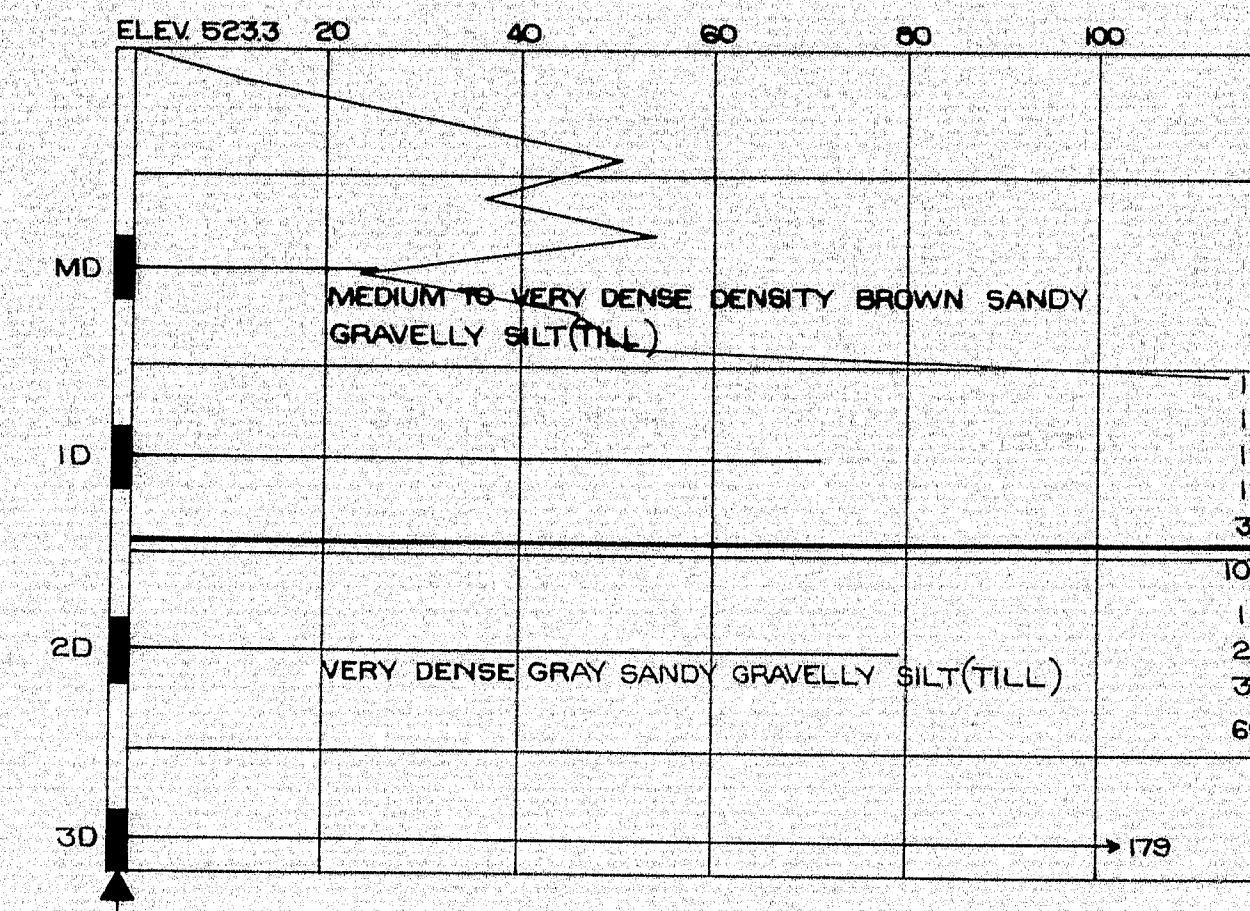
101-186



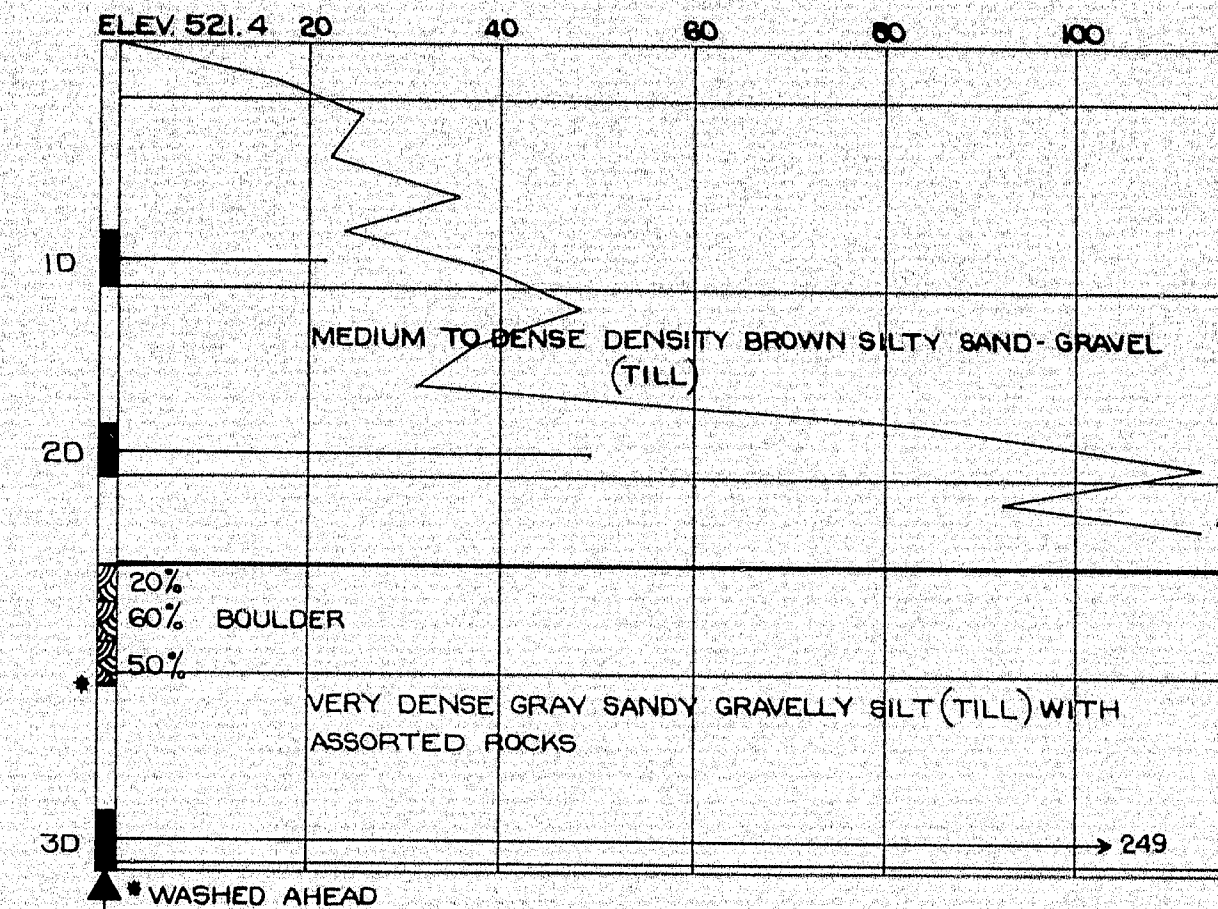
BORING AB-3
STA. 49+01 13' LT. ABUT. NO. 1



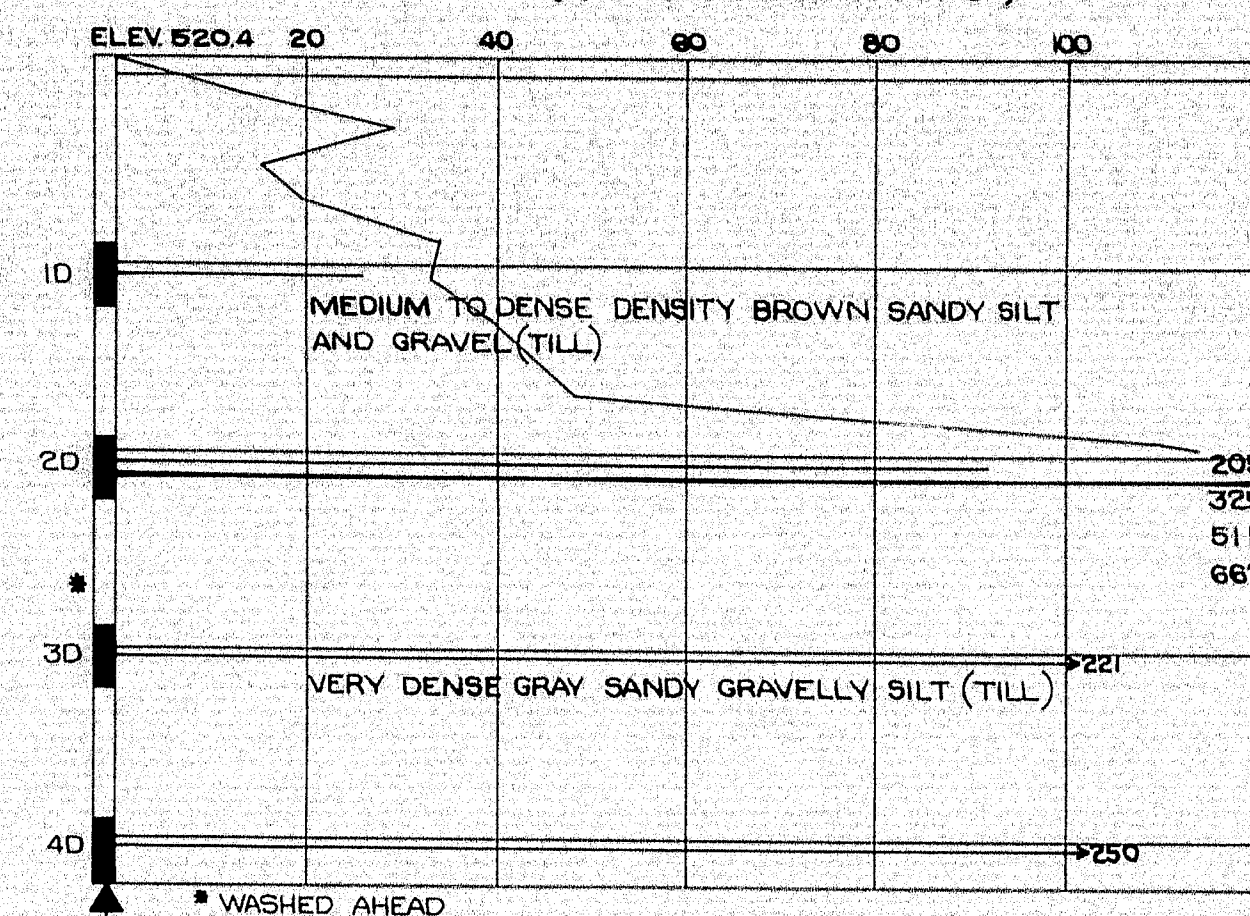
BORING AB-4
STA. 49+62 15' RT. PIER NO. 1



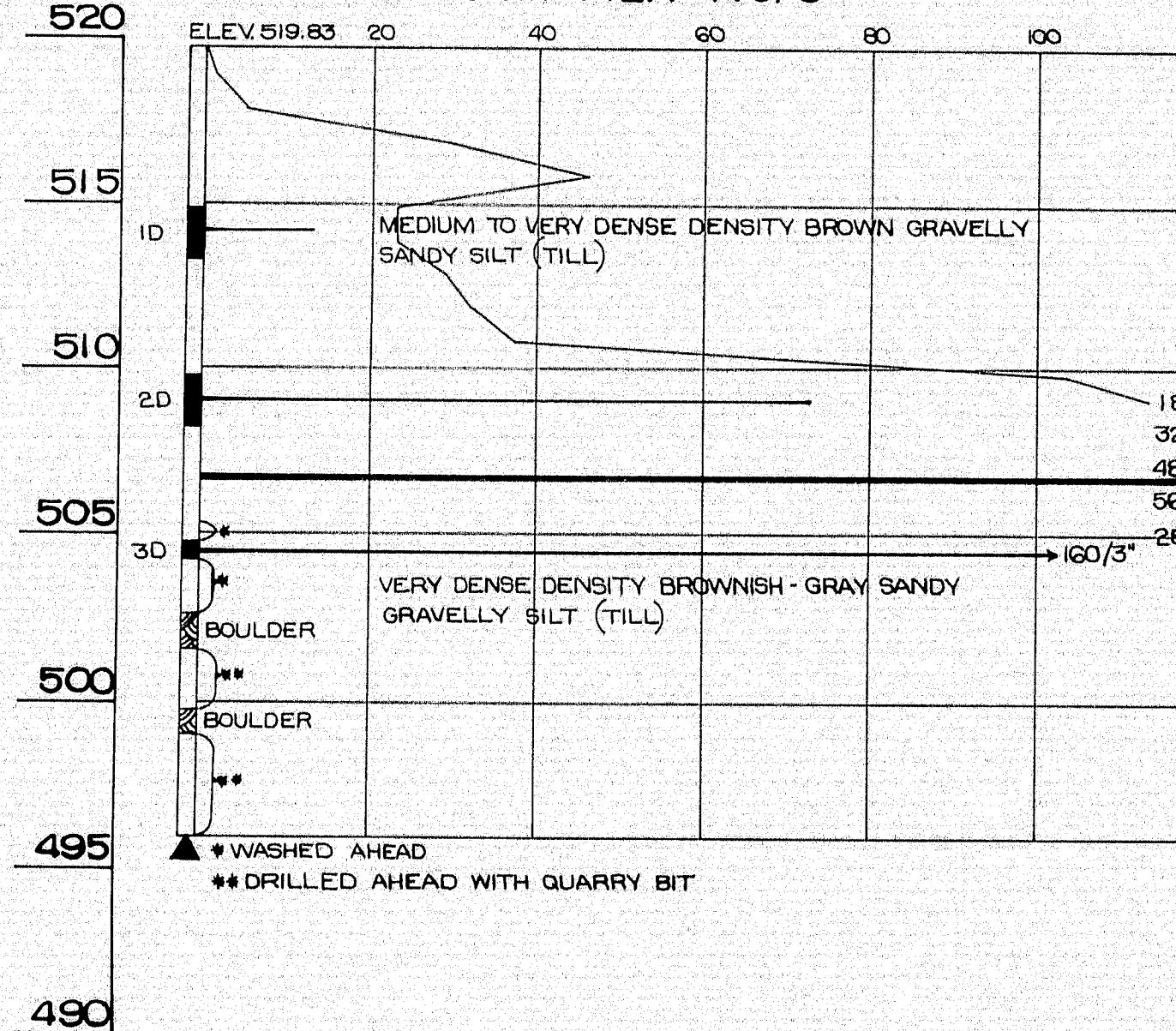
BORING AB-5
STA. 50+38 15' LT. PIER NO. 2



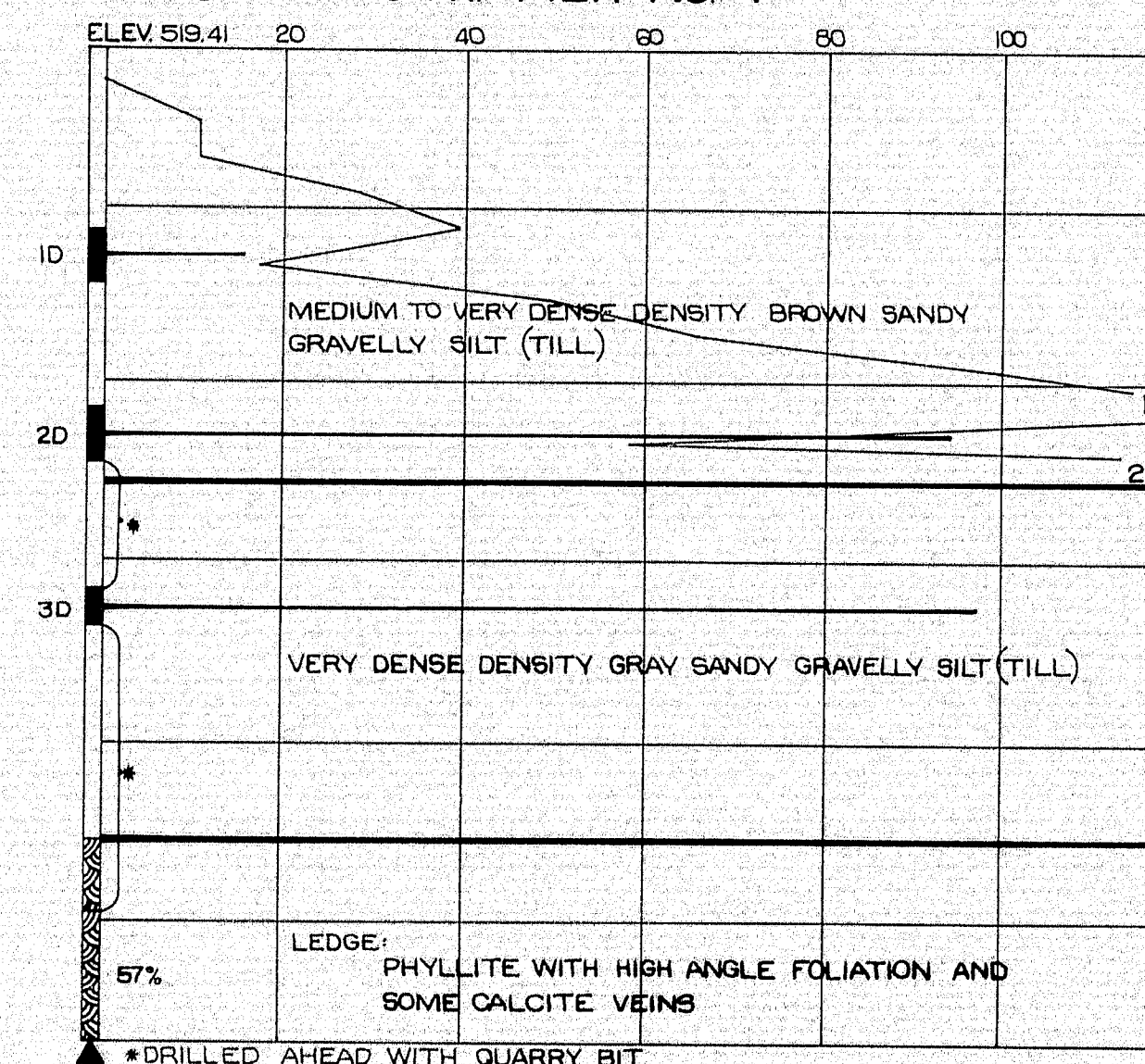
BORING AB-6
STA. 50+99 12' RT. (NEAR PIER NO. 3)



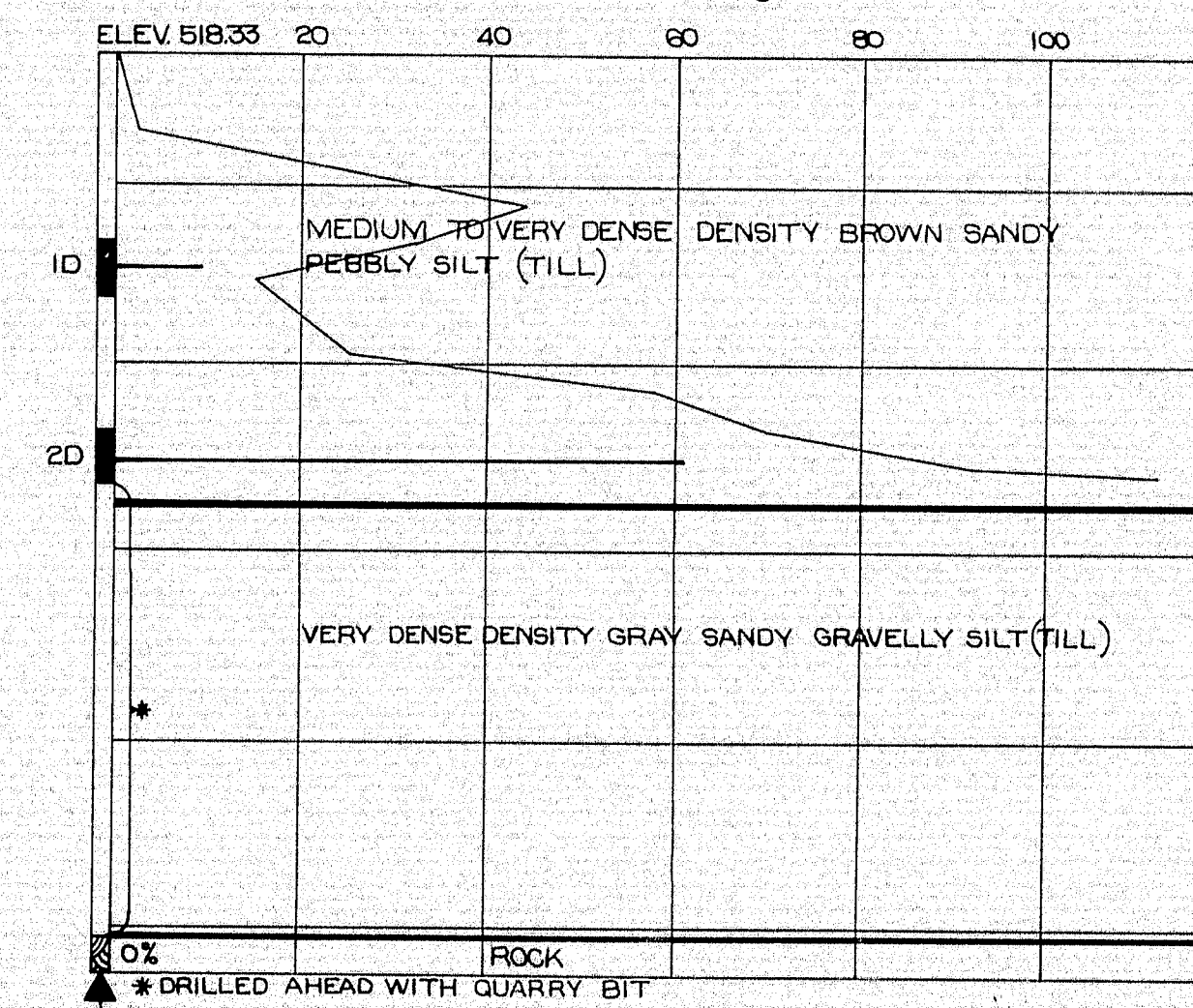
BORING AC-1
STA. 51+26 15' LT. PIER NO. 3



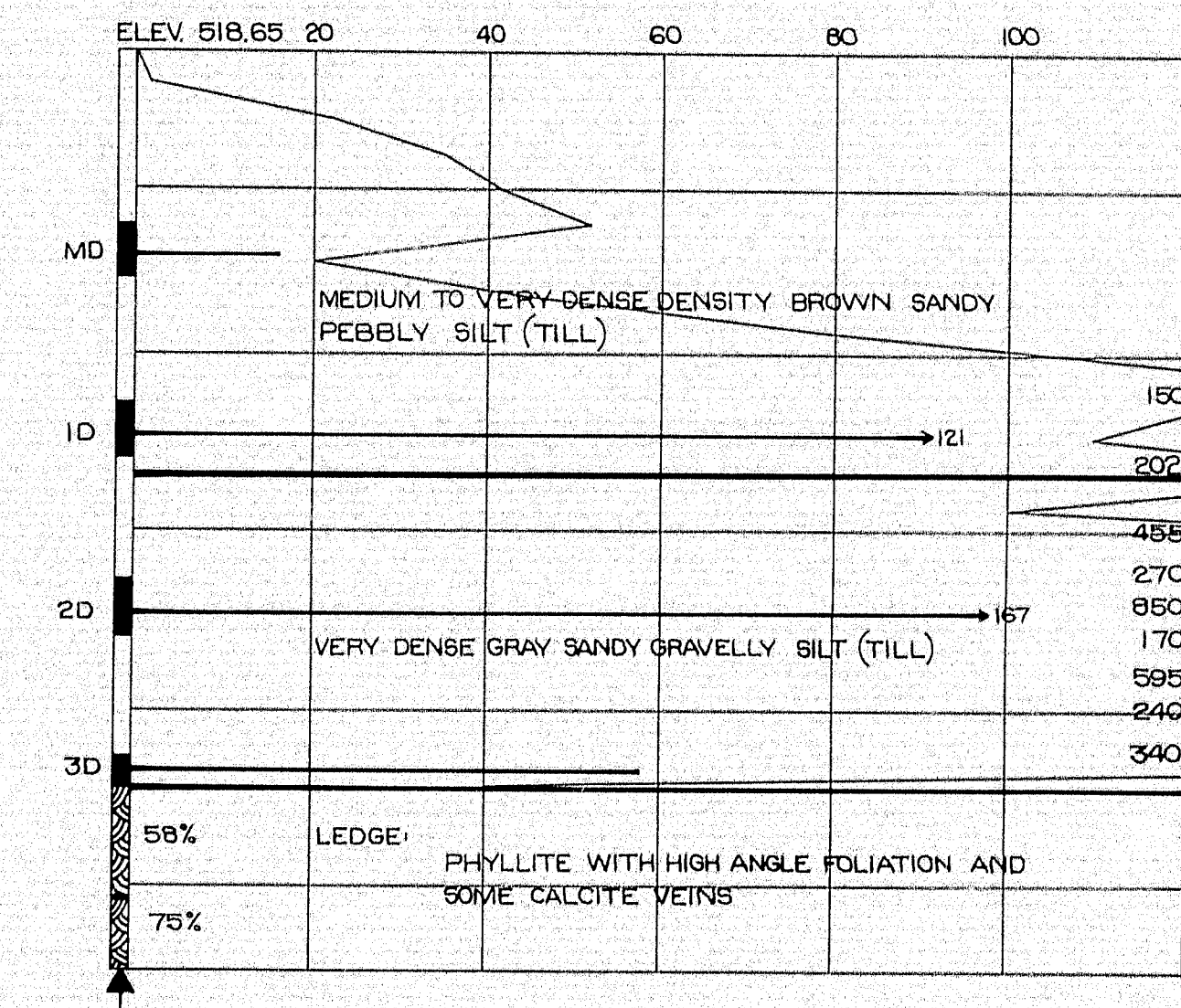
BORING AC-2
STA. 52+18 13' RT. PIER NO. 4



BORING AC-10
STA. 52+95 15' LT. PIER NO. 5



BORING AC-11
STA. 53+58 15' RT. ABUT. NO. 2

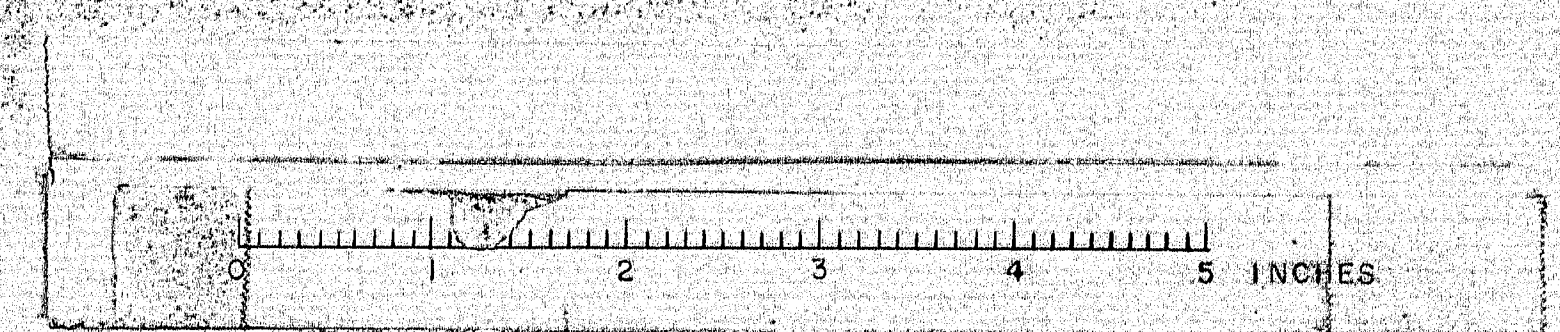


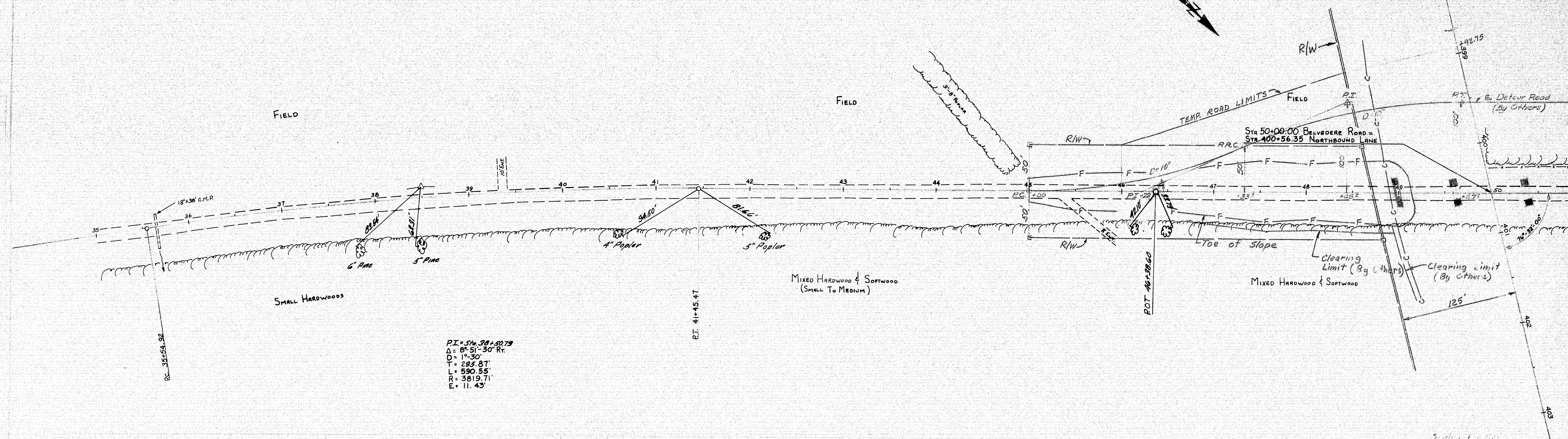
BORING NOTES

- ALL SAMPLES AND VANES ARE MADE AHEAD OF CASING
- NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 FT. LBS. OF ENERGY PER BLOW
- LOCATION OF SAMPLE OR SAMPLE ATTEMPT
- NUMBER AND TYPE OF DRY SAMPLE
- S & H SAMPLER #1290'S
- UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLER
- NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- LOCATION CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK

DESIGN-- TRACE-- CHECK--	Soils Division	BRIDGE NO. SURVEY-- PLOT--
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
BELVEDERE ROAD BRIDGE		
OVER		
INTERSTATE 95		
IN THE TOWN OF		
ISLAND FALLS		
AROOSTOOK COUNTY		
FOUNDATION SURVEY		
SHEET 3A OF 18 AUGUSTA, MAINE		

101-187





GENERAL NOTES

1. All loam areas and depths must be authorized by the Engineer unless specifically called for on the Typical Sections, Plans or in the Specs. Loaming of slopes has been estimated on a 2" depth.
2. All 1 1/2:1 & 3:1 fill slopes shall be loamed unless otherwise directed by the Engineer.
3. Seeding Method No. 2 and Hay Mulch on all slopes or as directed by the Engineer.
4. All Clearing Row Limits (As Noted) are shown on the Plans.

5. The Surface Course and Base Course depths as shown on the plans are intended to be nominal.

6. Do not excavate for base course if existing material is suitable as determined by the Engineer in the field.

7. R/W Monuments shall be installed by others.

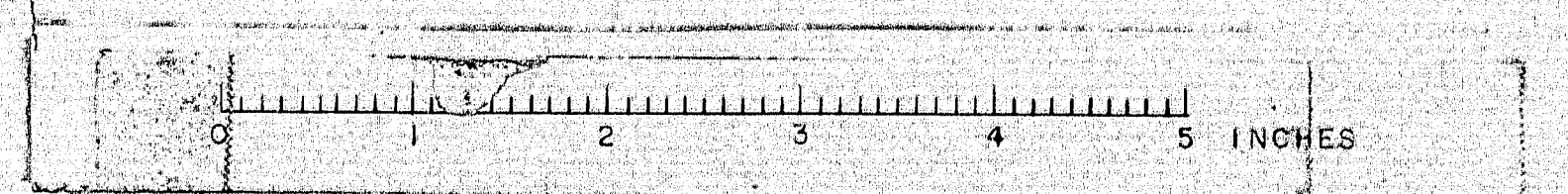
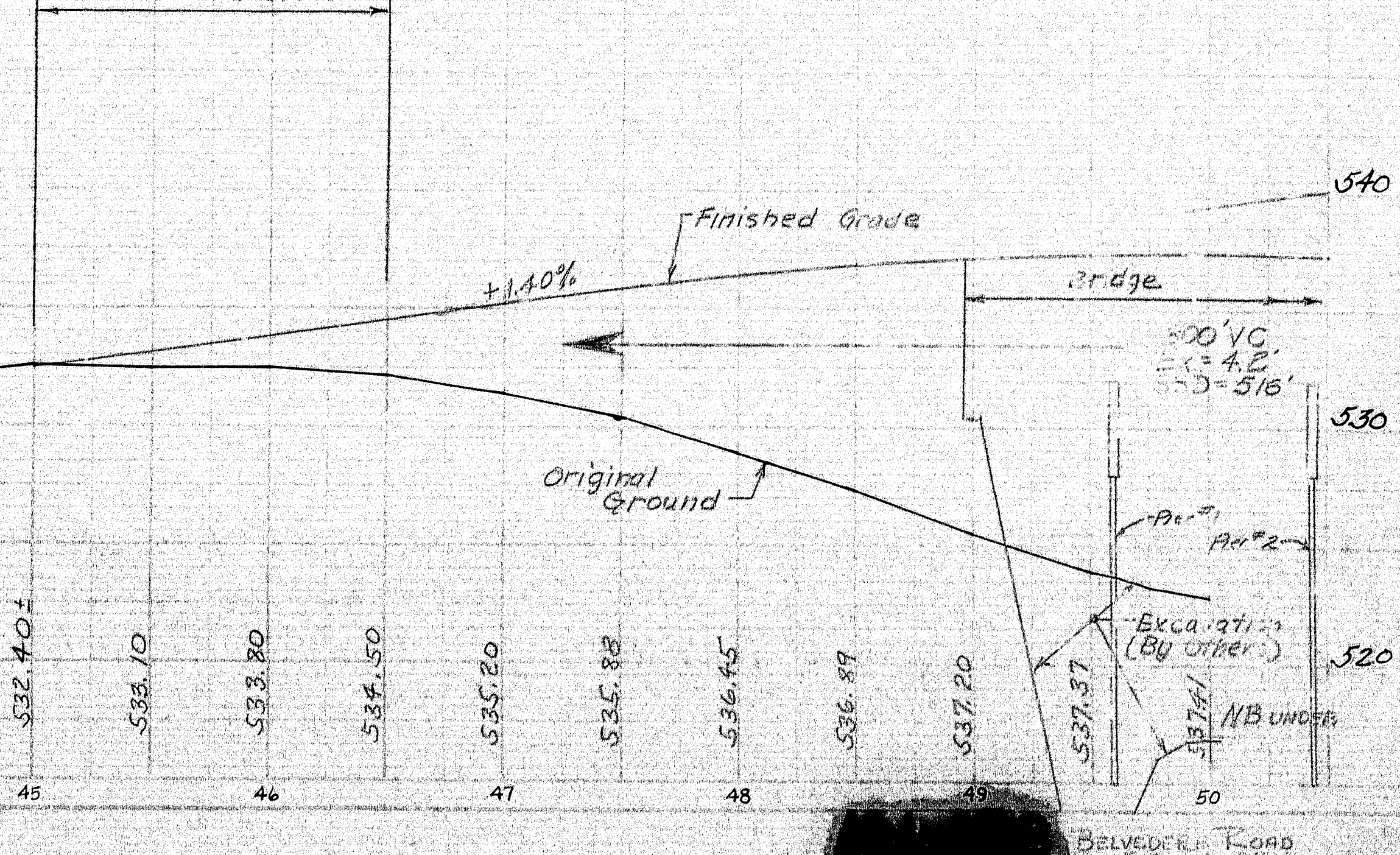
8. No Utilities involved on this project.

9. Bituminous Surface Treatment shall be in accordance with Section 410 and shall consist of the following:

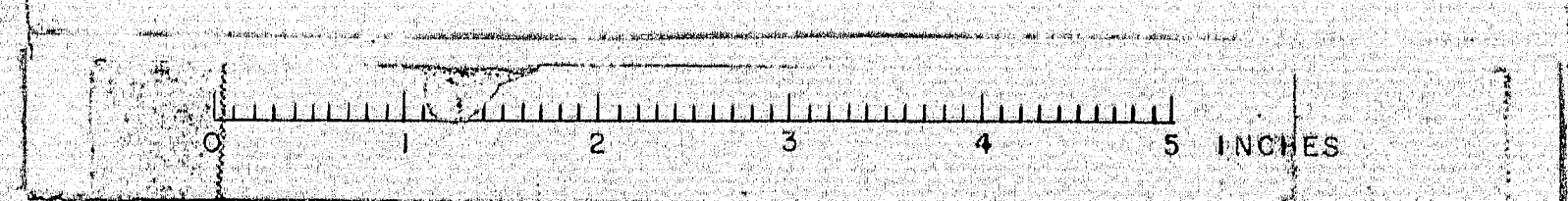
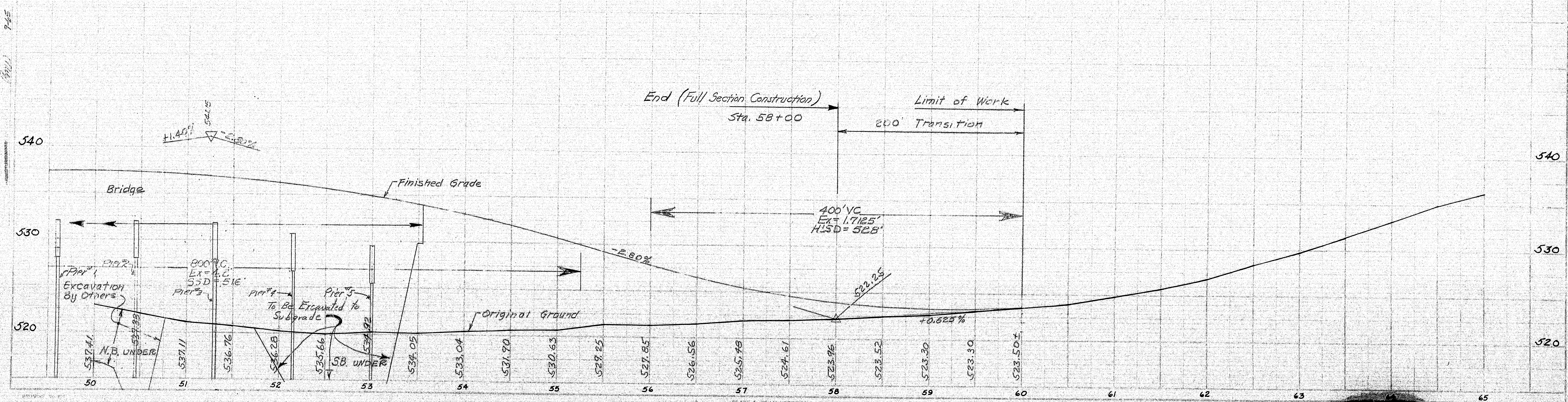
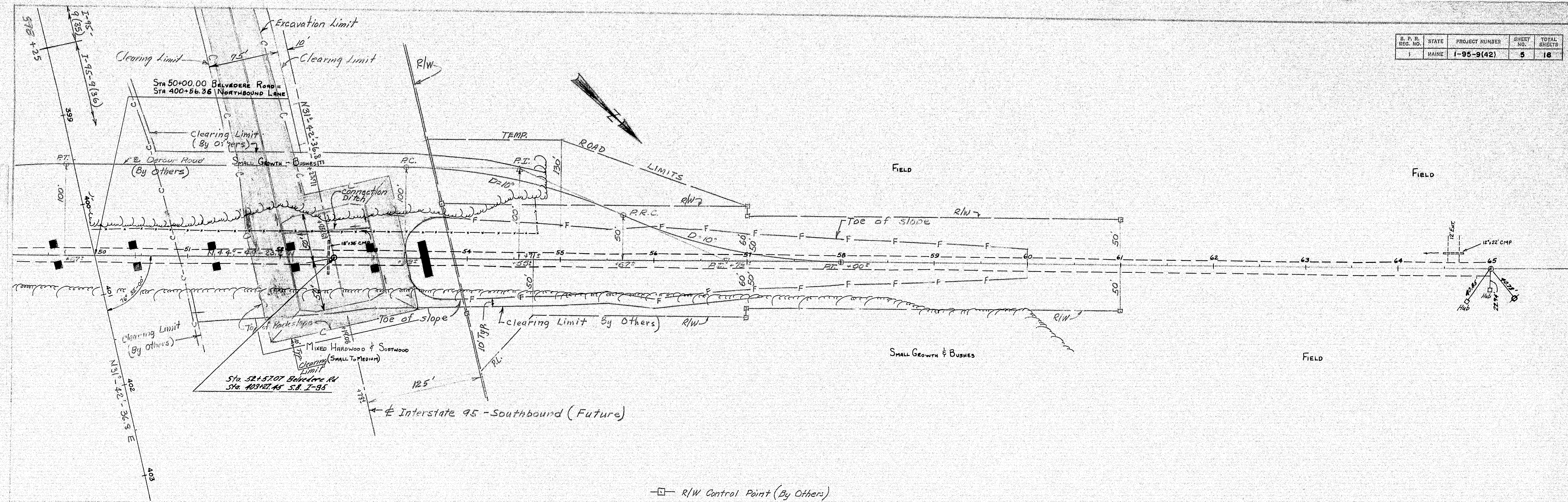
- A. One (1) Seal Coat - Section 409, Road Tar R.T.-5 @ 0.2 gals / s.y. 2.
- B. One (1) Prime Coat - Section 408, Road Tar R.T.-5 @ 0.5 gals / s.y. 2.

10. All embankments within fifty (50) feet of bridge abutment shall be compacted by the moisture and density control method as stated in subsection 203.12

Limit of Work
150' Transition
Begin (Full Section Construction)
Sta 46+50



D. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-9(42)	5	18



Merry & Raymond 3-68
C.D.H.
7-68

±

523.60

46+00

525

523.10

+50

525

522.40 ±

45+00

525

Limit of Work

+50

525

44+00

525

+50

520

43+00

520

42+50

520

±

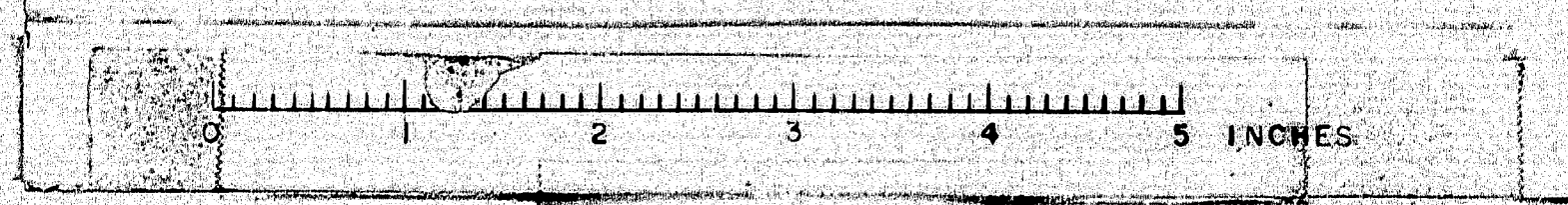


PLATE 5 - CROSS SECTION 5+00 TO 42+50
Main and Shoulder of Road
Main and Shoulder of Road

S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-85-242	6	10

X-SECTIONS 42+50 to 46+00

Ball's Pond Road

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-9(42)	7	10

DATE	
------	--

Merry & Raymond
C.H.
3-65
9-65

62-1036

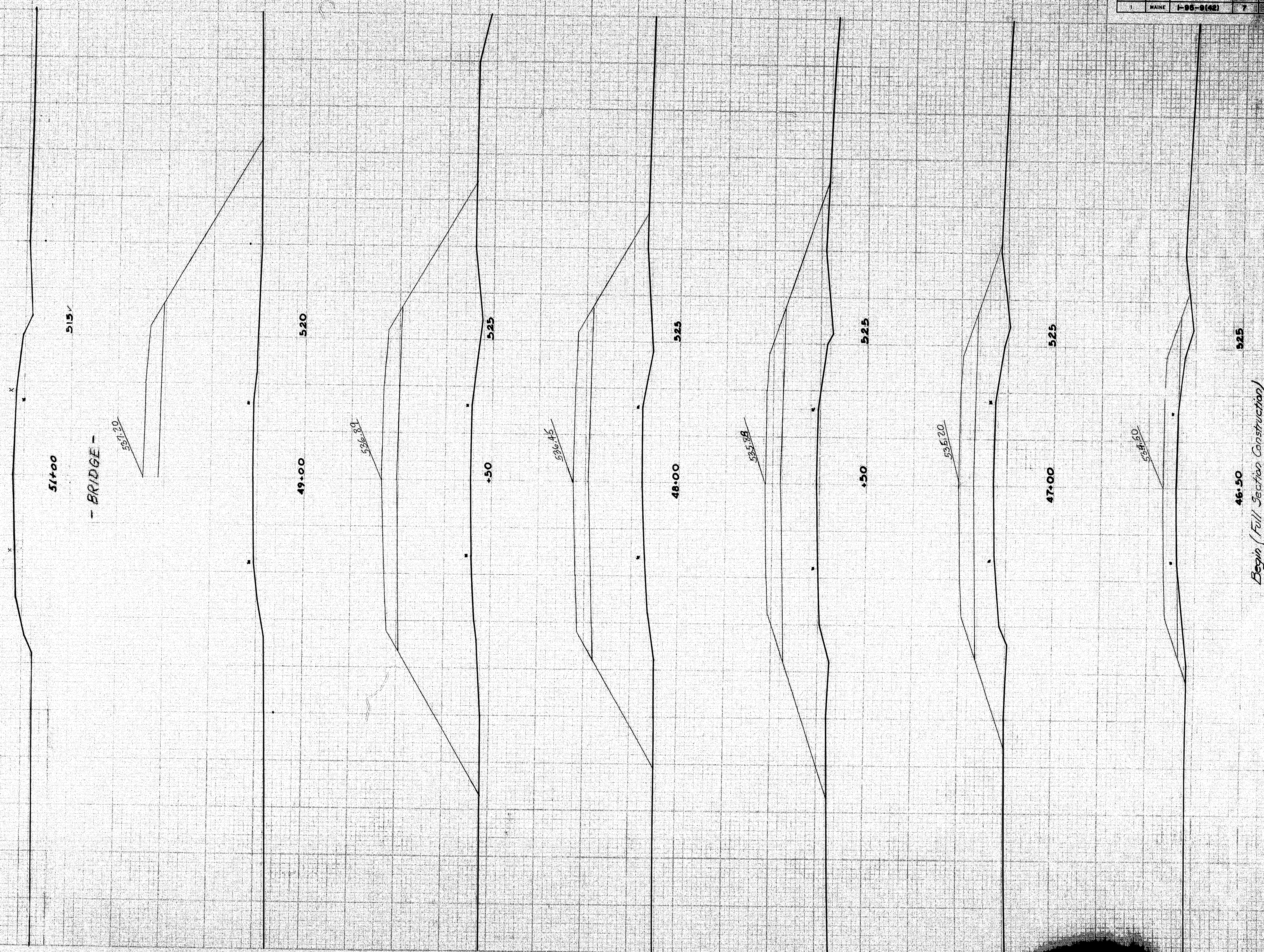
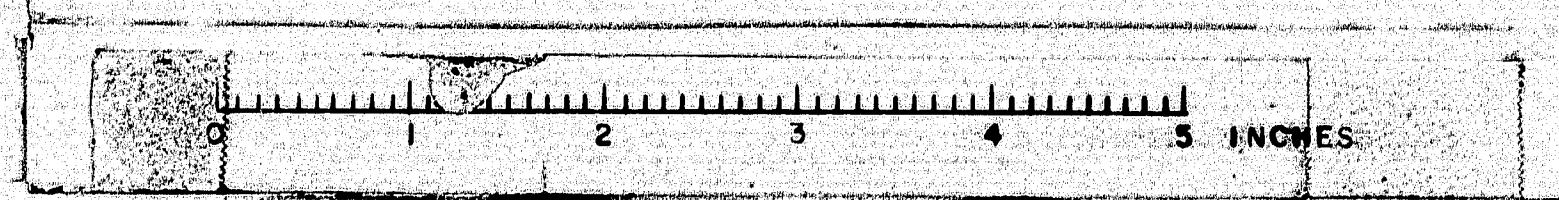
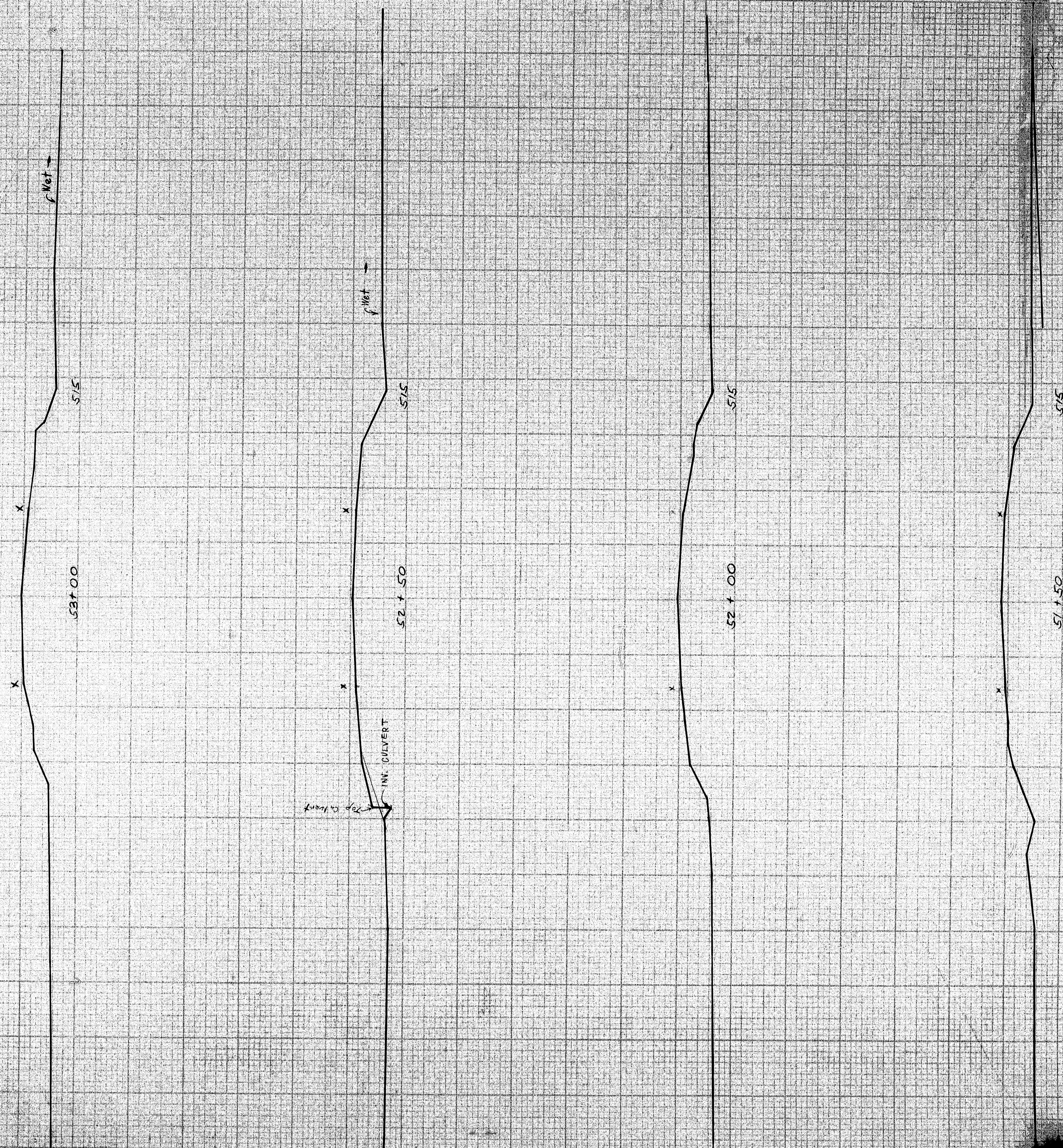


PLATE 3 - CROSS SECTION OF F. M. D. R.
MOUNT. ROAD NO. 101, 101-101, 101-101
QUARTZ LITHOLOGY CONTAINS 101



FINAL SURVEY	DATE	BY	DATE
BARBER			
CLIFF			
DEPT. LANE			
TRANS			
2024 3/10/20			

ORIGINAL SURVEY	SUBMITTED	BY	DATE
NAME ADDRESS PHONE	PLASTIC	Merry & Raymond	3-65
95-1032	195	PDW	9-65



B. F. R. REG. NO.	STATE	PROJECT NUMBER	DATE
1	MAINE	1-05-0402	0

Olvedere Road Island Fa

FINAL SURVEY	DATE
NOTED	BY
NO. 1	DATE

ORIGINAL SURVEY	DATE
NOTED	BY
NO. 1	DATE

S. P. R.	STATE	PROJECT NUMBER	SHEET	TOTAL SHEETS
1	MAINE	1-85-2022	10	10

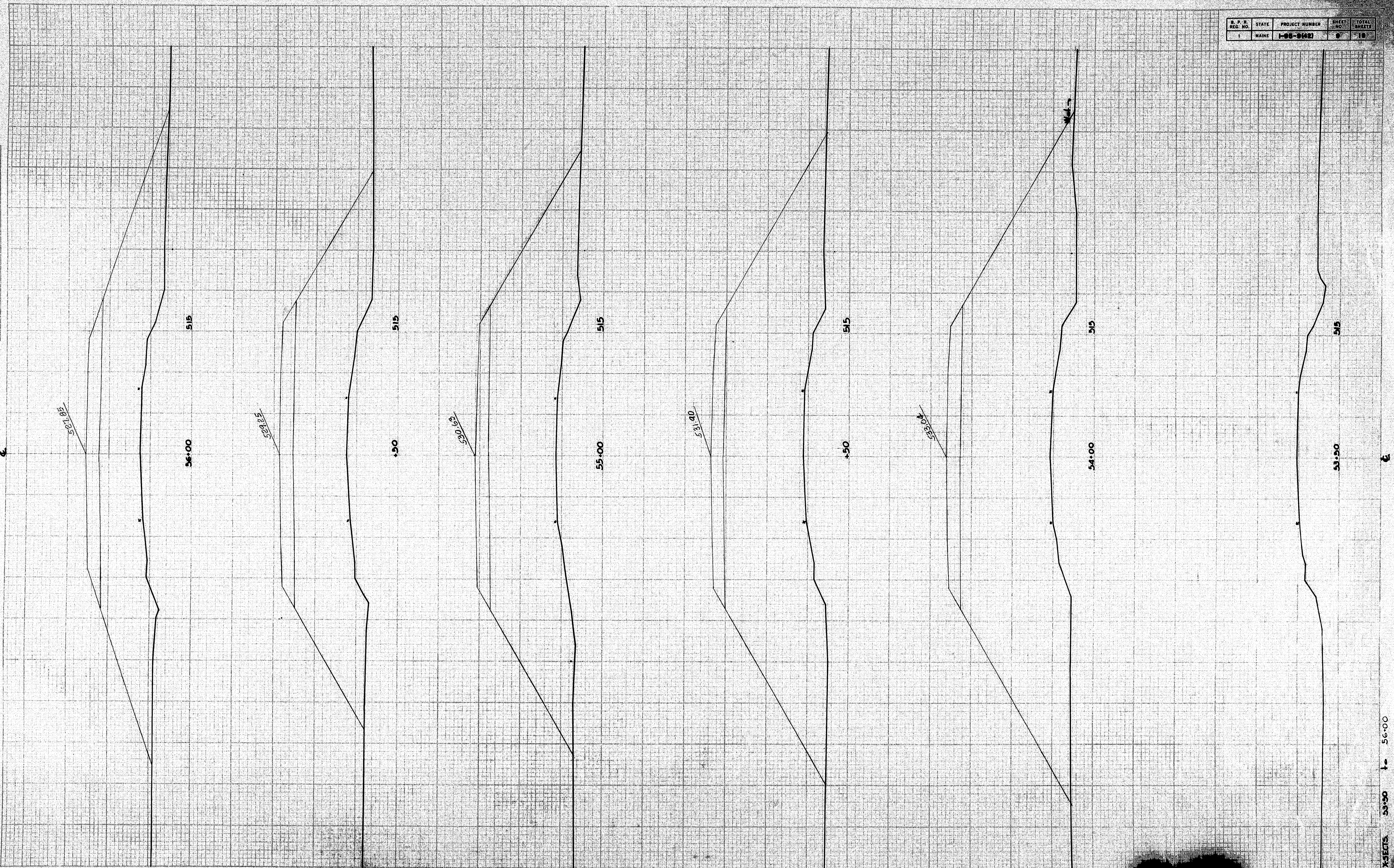
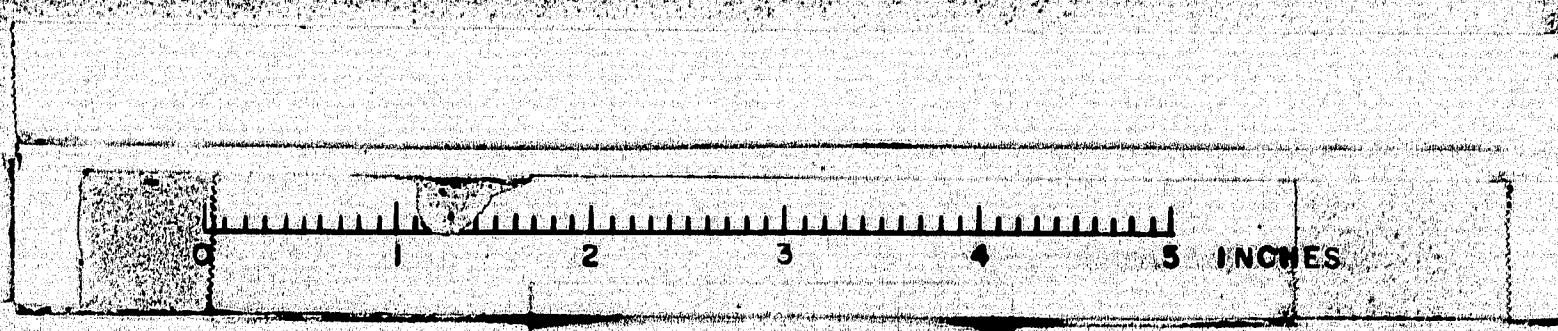


PLATE 3 - CROSS SECTION

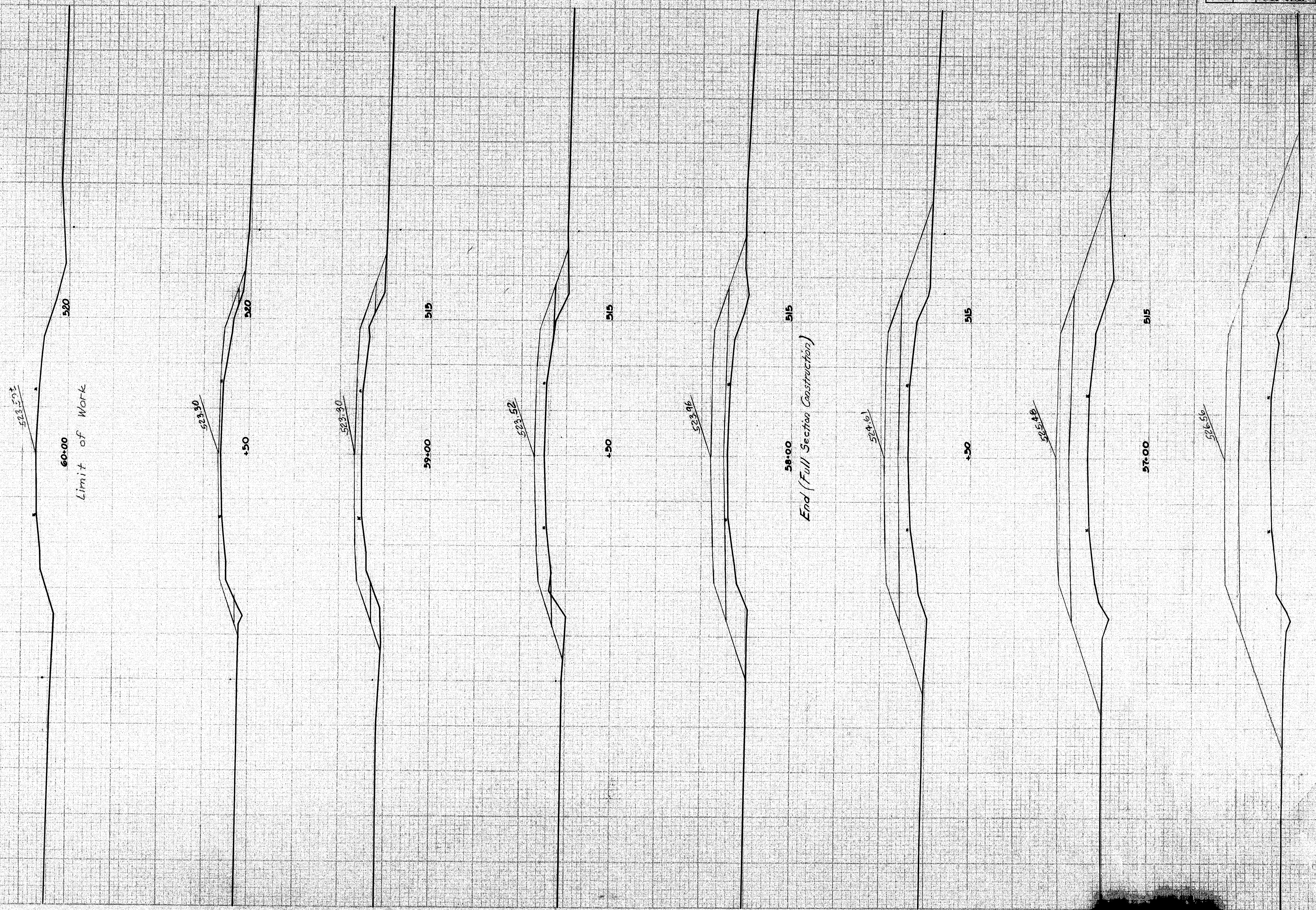
Belvedere Road
Island Falls



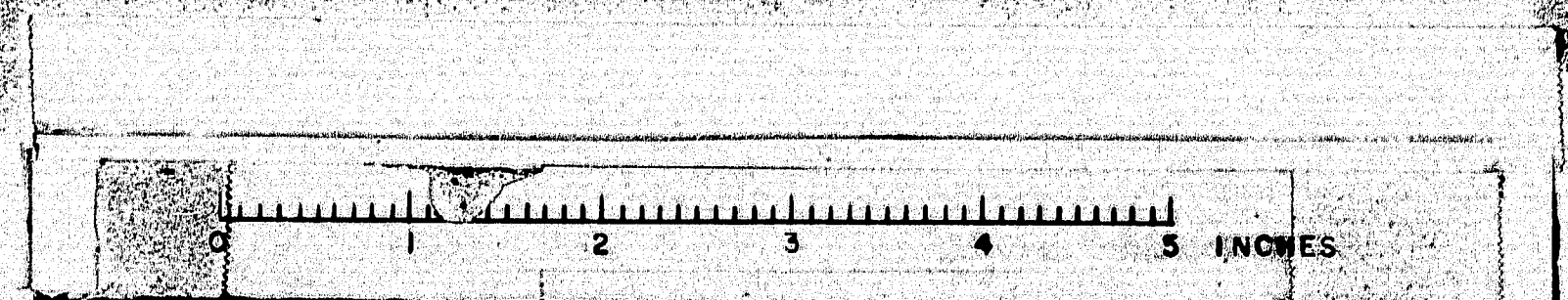
DATE	
DESIGNED BY	
CHECKED BY	
APPROVED BY	
NO.	

DRAWN BY
 MARY E. BRYNARD
 3-45
 845

REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-88-9(48)	10	10

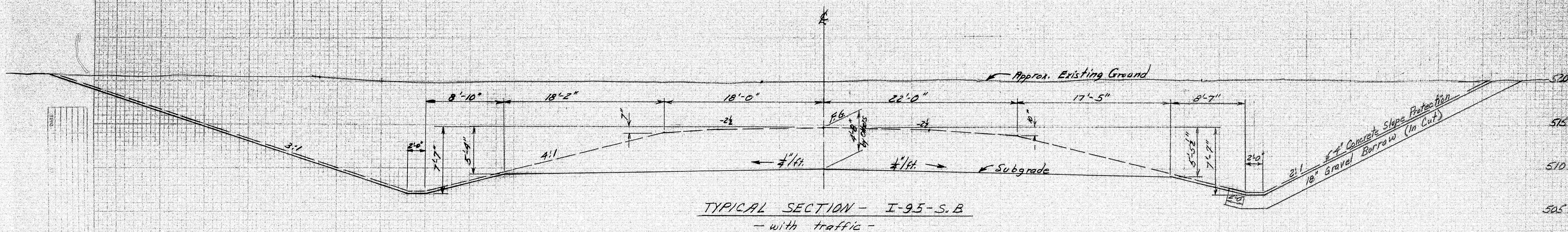


End (Full Section Construction)



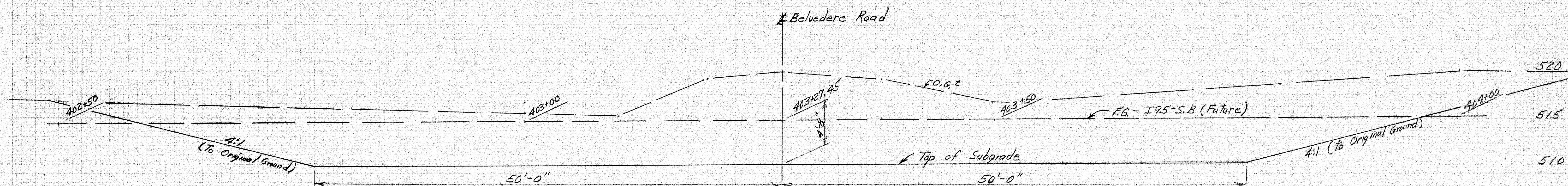
Belvedere Island Falls

SECTION 56:50 to 60:00



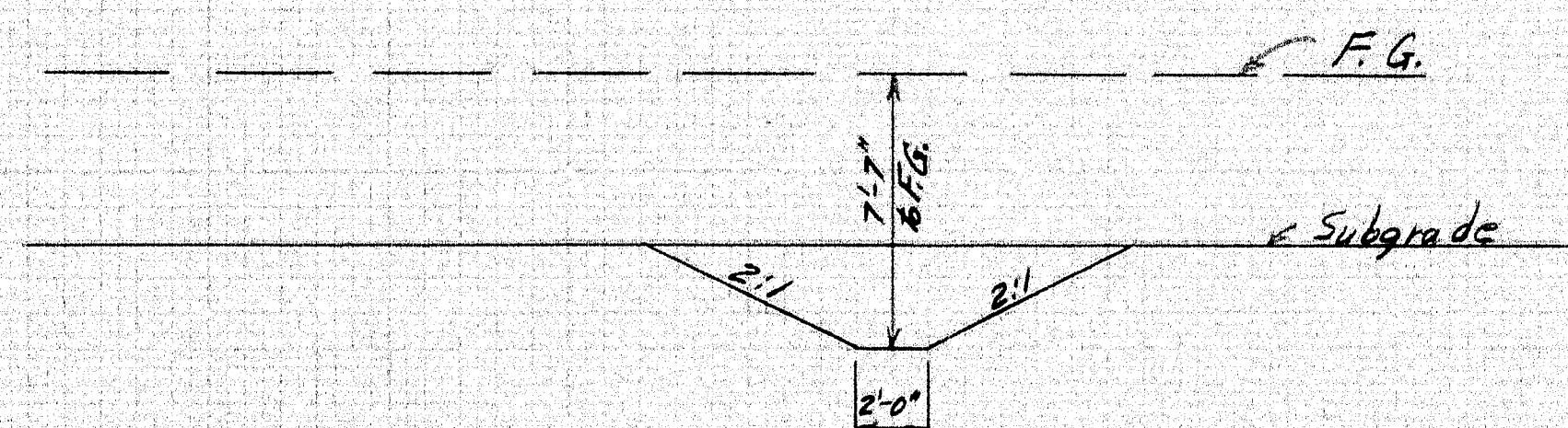
TYPICAL SECTION - I-95-S.B.
- with traffic -

Note: Excavate I-95-S.B. to Subgrade
50' each side of Belvedere Road
See Sheet #5 for Plan View

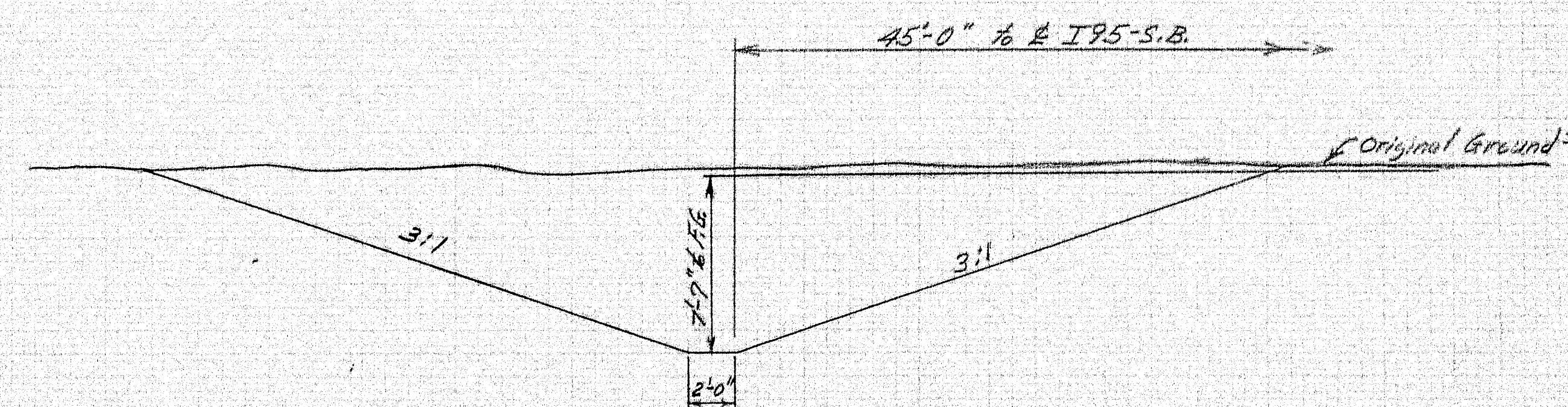


PROFILE ALONG I-95-S.B. (Future)
- Limits of Excavation -

Note: Excavation as shown on sheets 10A & 10B to be
paid for under Item 203.20 - Common Excavation.
Commence Excavation at ditch outlet and
proceed toward bridge to allow drainage.

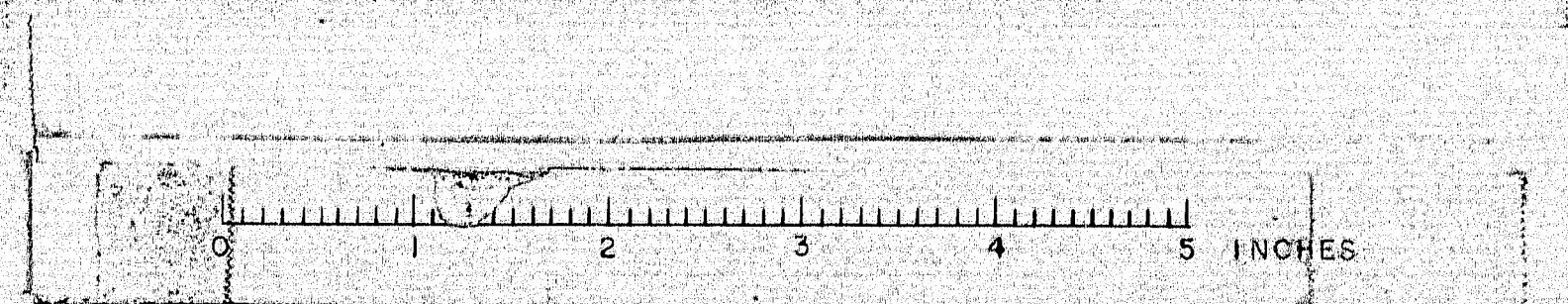


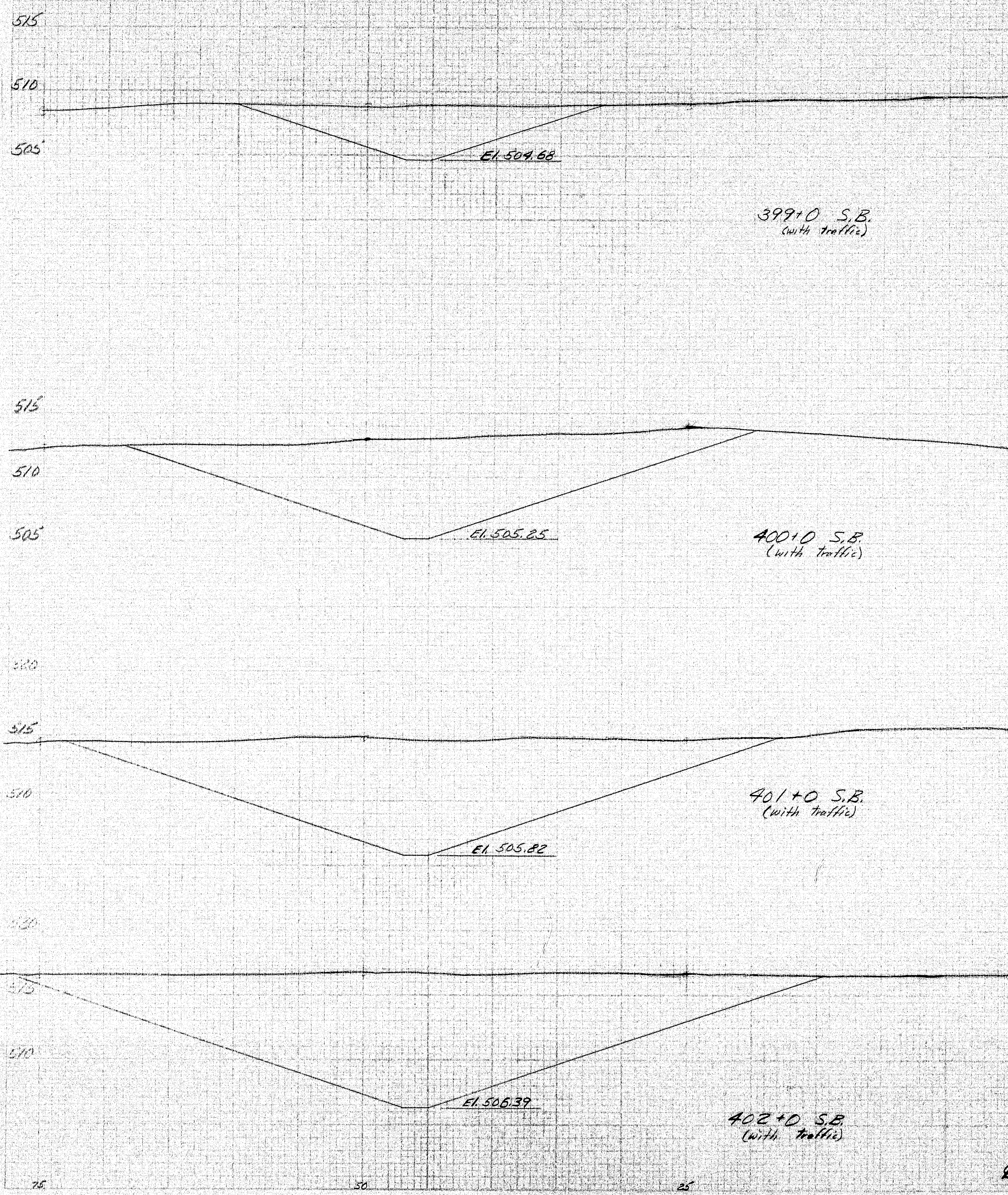
TYPICAL SECTION - CONNECTION DITCH
[Sta. 402+90(R) to 403+15(L)]



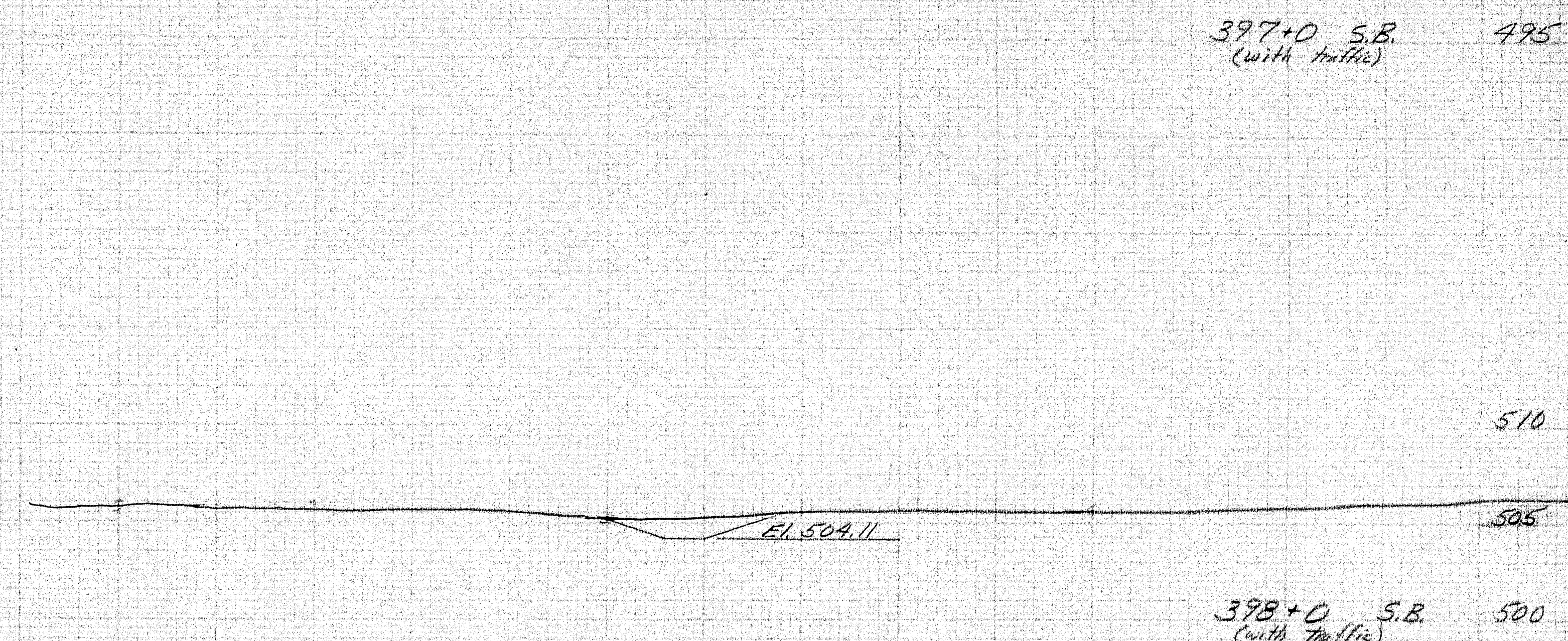
TYPICAL DITCH SECTION
STA. 397+0± to 402+75±
I-95-S.B.
(with Traffic)

Belvedere Road
Island Falls





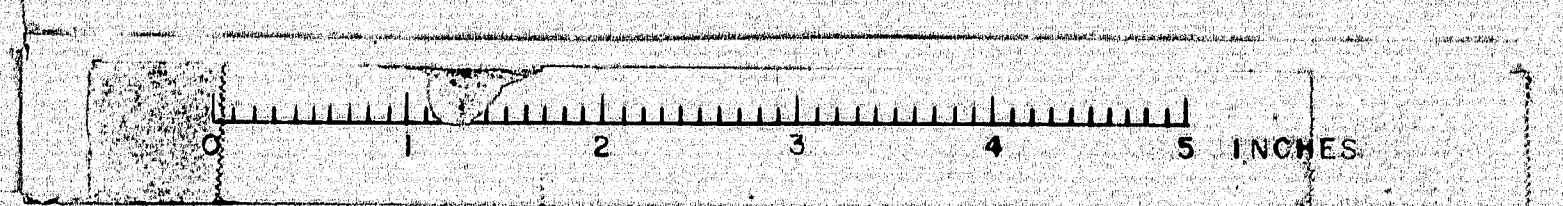
— ZERO DITCH SECTION —
STA. 397+0±

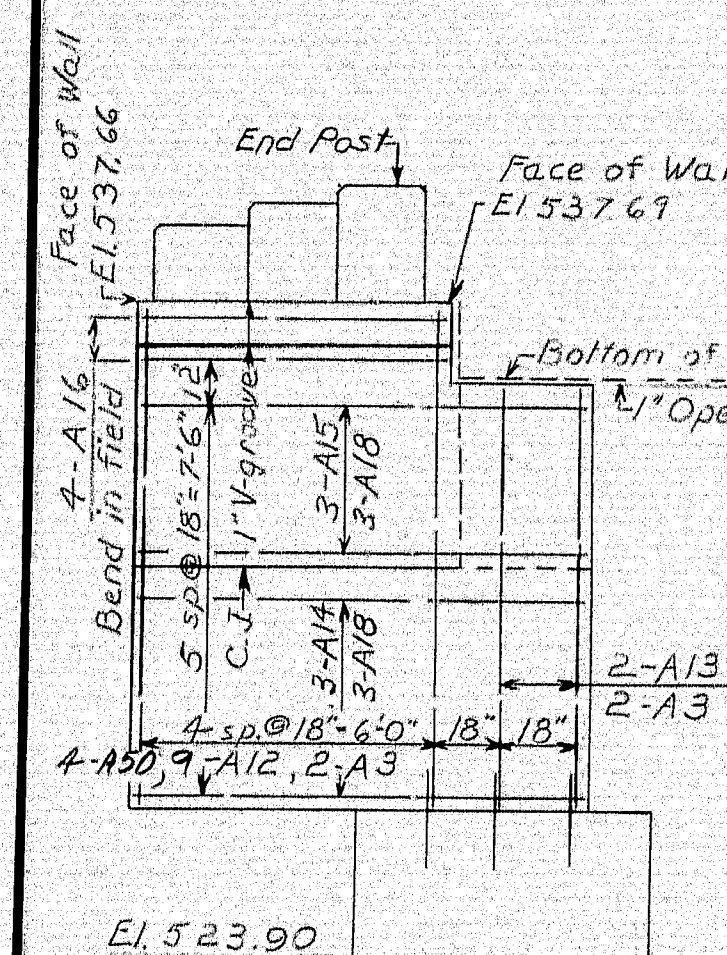
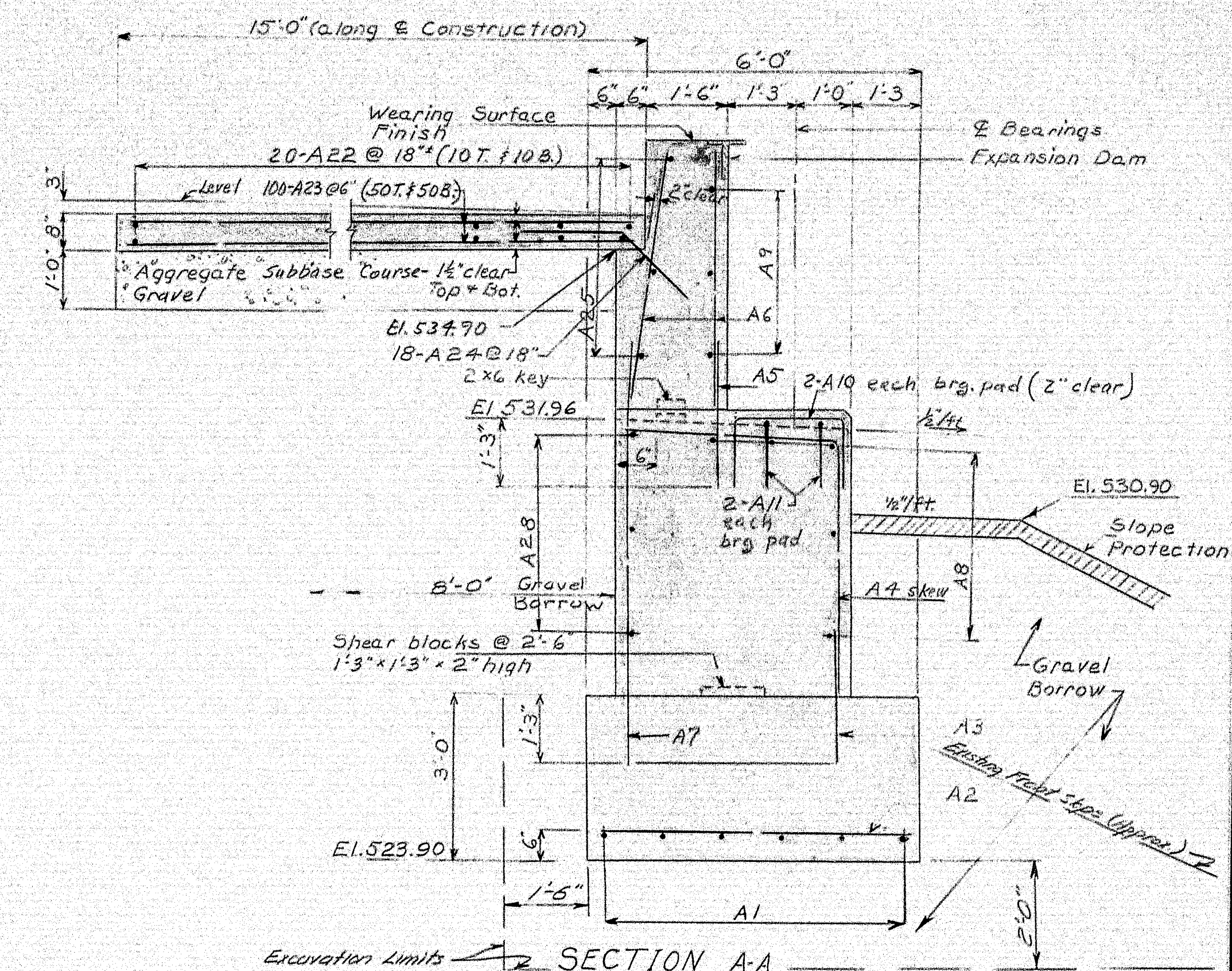
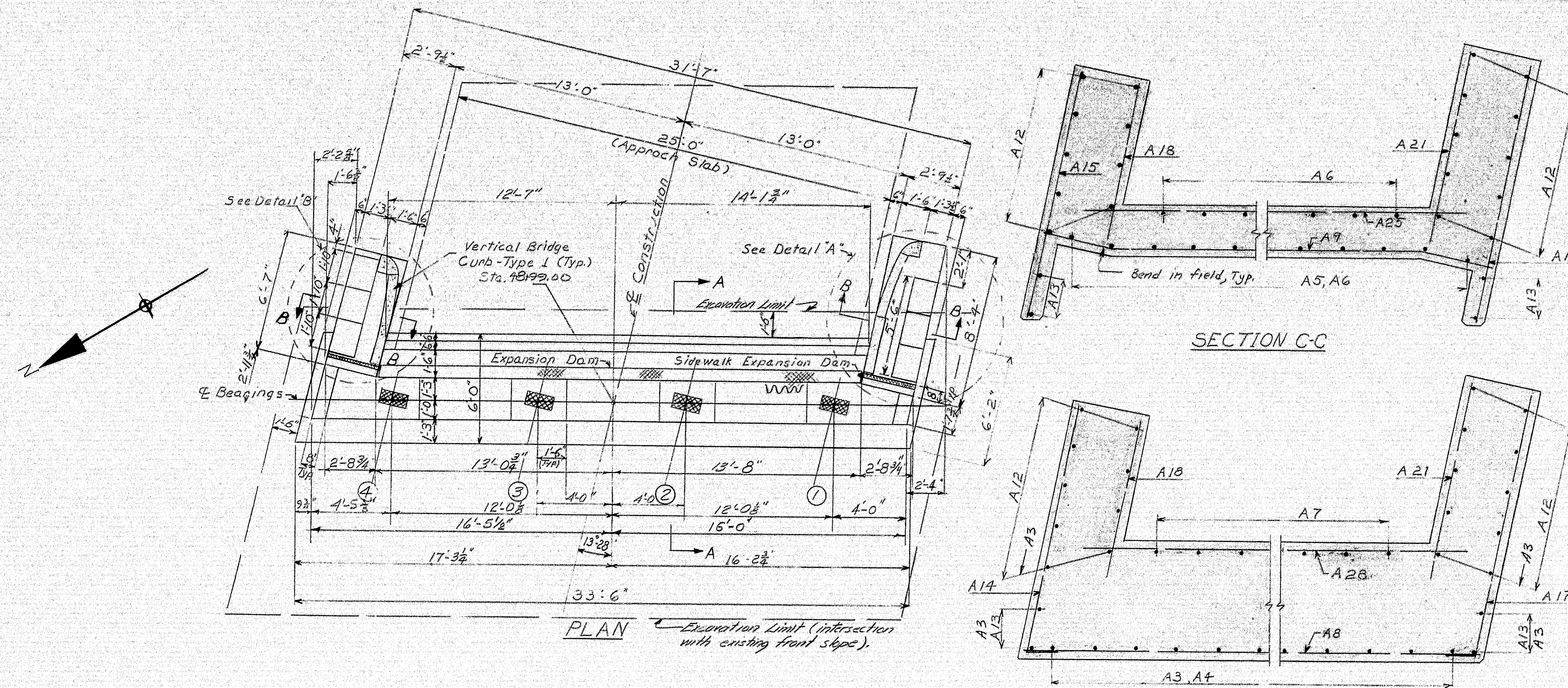


Note: 75' strip to be cleared (10' R/L to 85' R/L)
from Sta. 397+0± to 402+00± S.B.

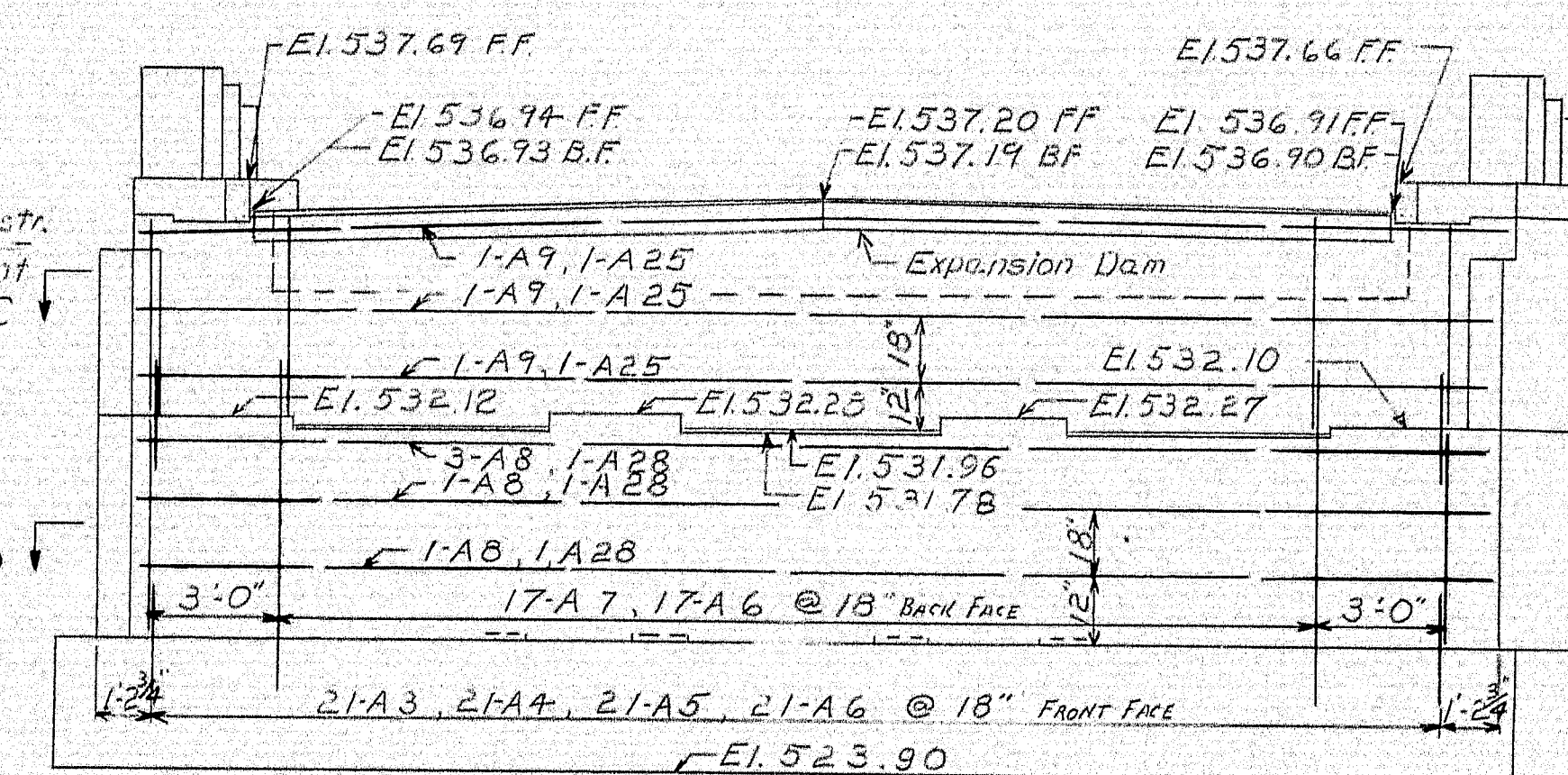
S.B. with Traffic

Belvedere Road
Island Falls

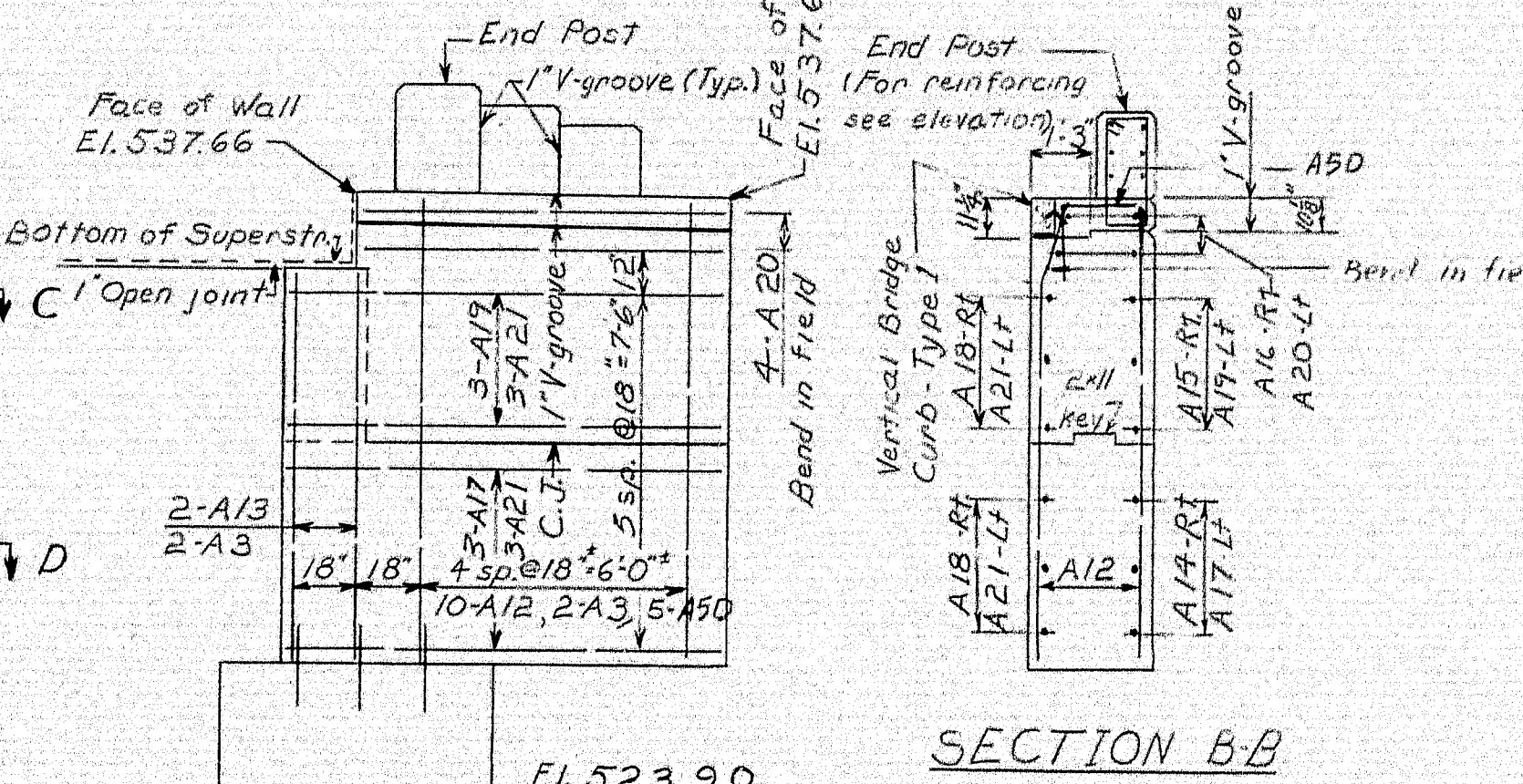




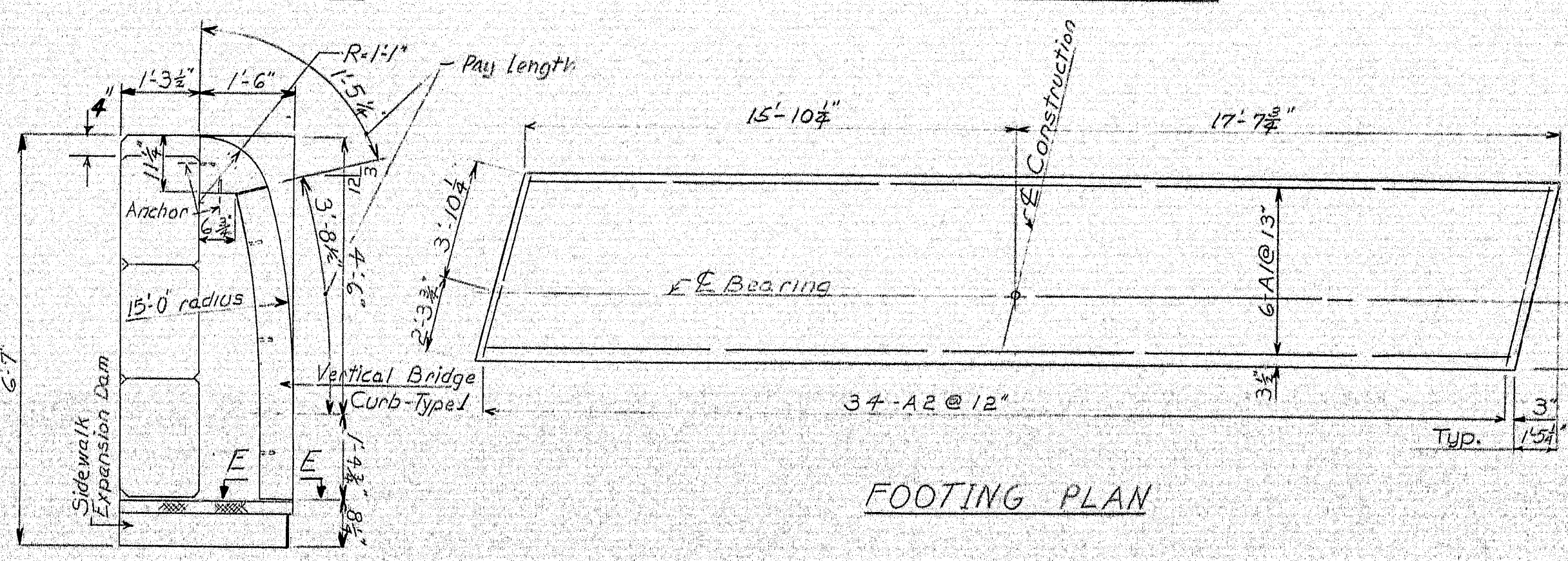
RIGHT SIDE ELEVATION



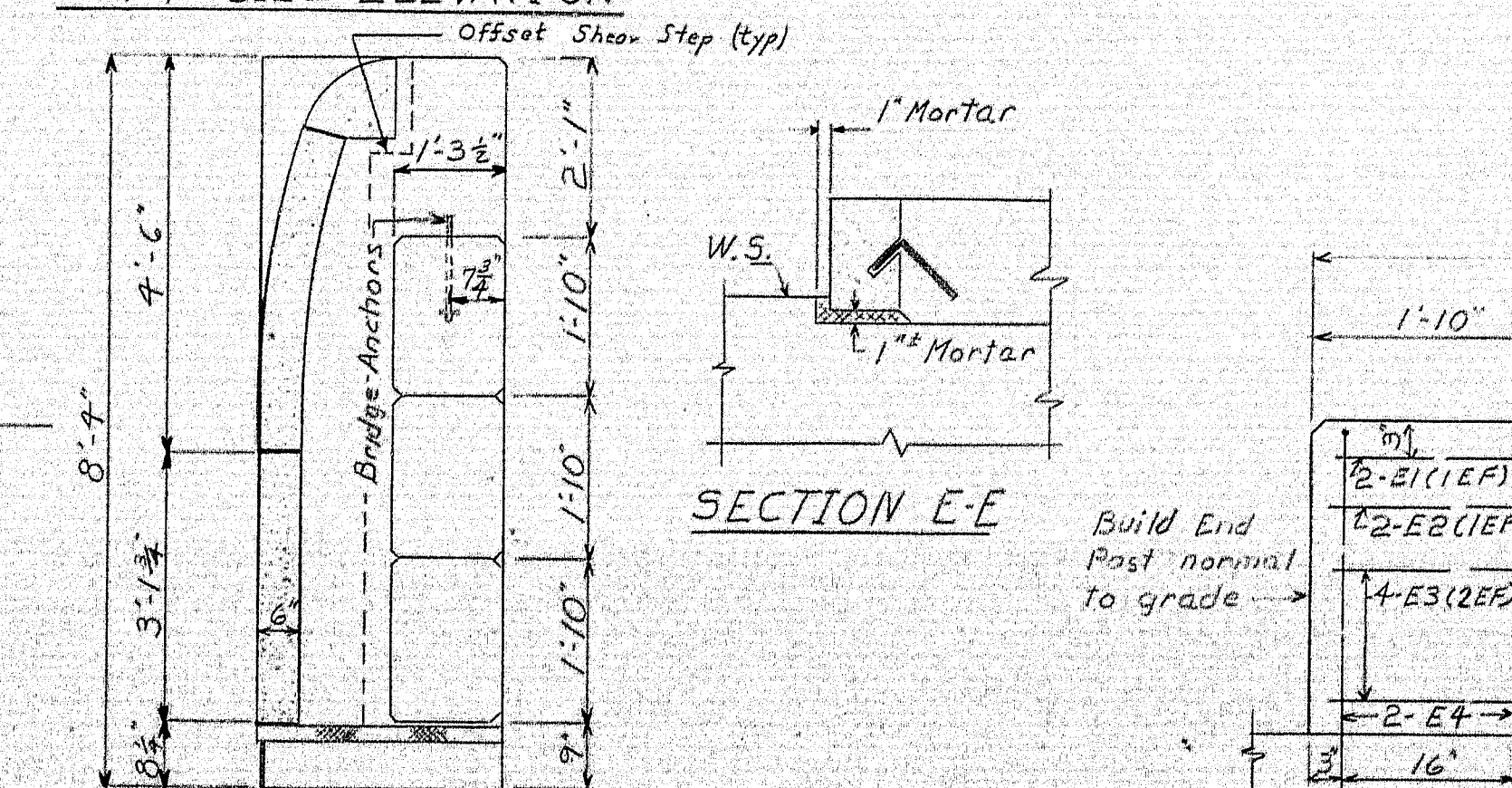
FRONT ELEVATION



LEFT SIDE ELEVATION

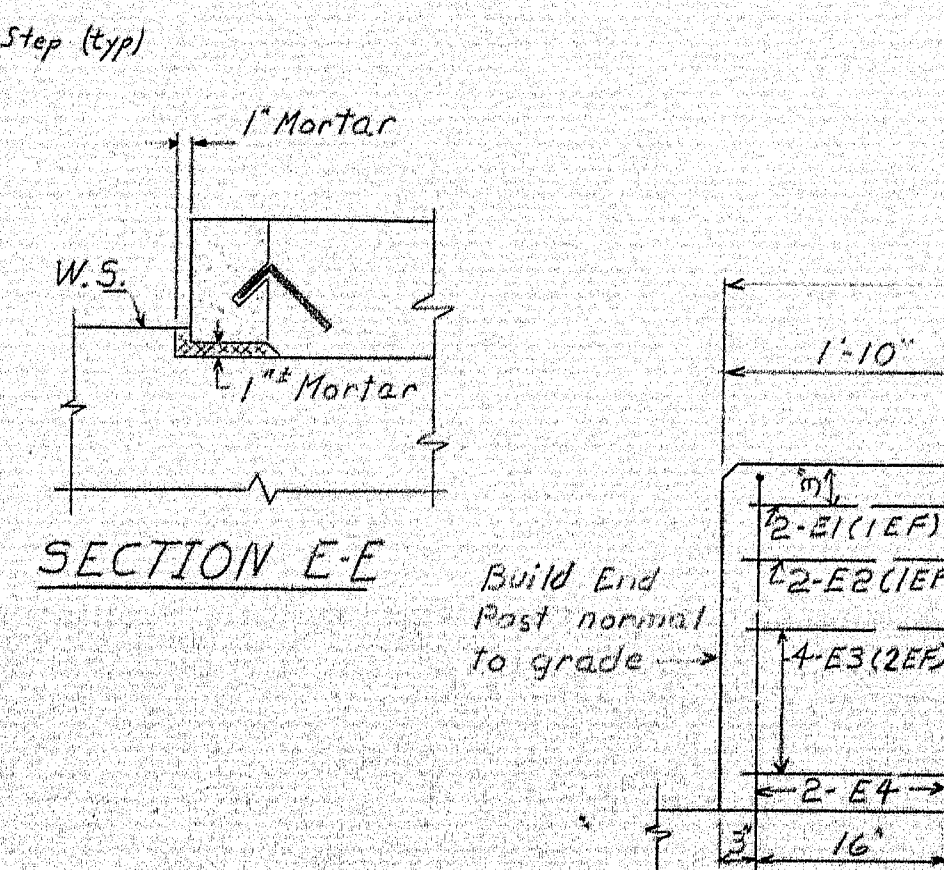


FOOTING PLAN

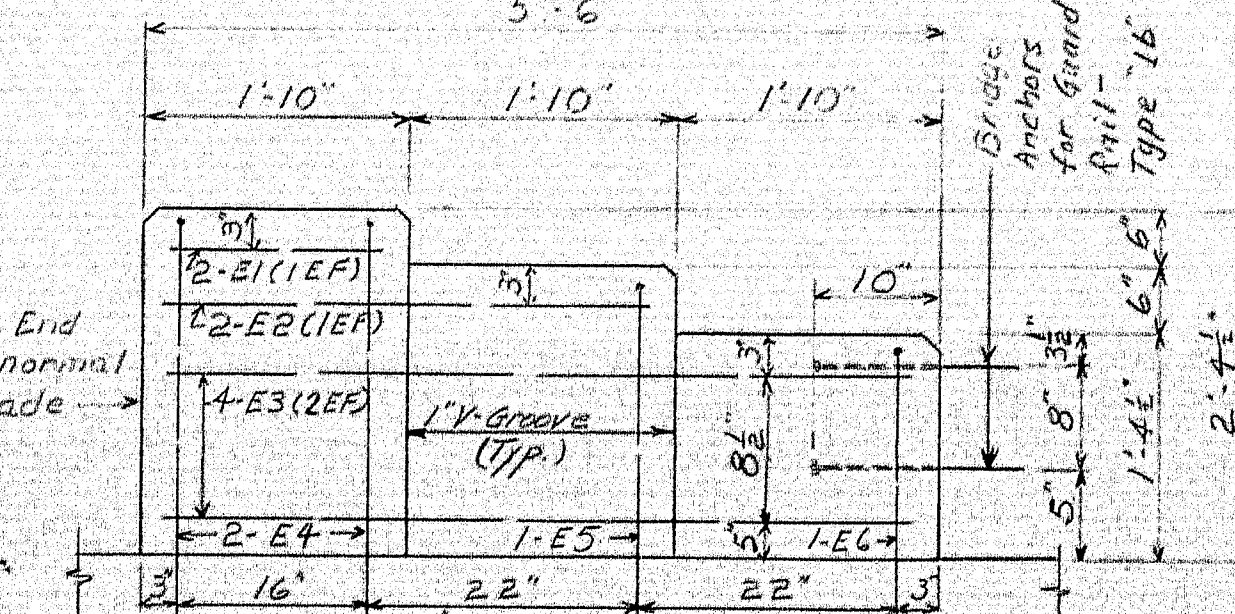


DETAIL A

(similar to Detail B)



SECTION E-E



ELEVATION END POST

GENERAL ABUTMENT NOTES

- Backwall and wingwall shall be constructed after structural steel has been erected and bottom of slab elevations have been established.
- Position reinforcing steel to clear anchor bolts.
- Reinforcing steel shall have 3" clear cover except as shown.
- Cast face of backwalls, bridge seats and breast walls of abutment down to 6" below slope paving with Epoxy Resin Surface Sealant.
- LT denotes construction joint, FF denotes front face, BF denotes back face, EF denotes each face.
- For Bearing Pedestals and preparation of bridge seats see sheet BD101-64. For Expansion Dam details see sheet BD105-64. For Slope Protection details see sheet 17.
- Approach Slabs will be paid for under Item 502.21. Concrete End Posts will be paid for under Item 502.21.

8. Maximum Soil Pressure = 2.6 tons per sq. ft.

DESIGN - E. S. DeLima	BRIDGE NO.
CHECK - J. L. Chandler	101-189H
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
BELVEDERE ROAD OVER INTERSTATE 95 IN THE TOWN OF ISLAND FALLS AROOSTOOK COUNTY	
ABUTMENT NO. 1	
SHEET 11 OF 18	AUGUSTA, MAINE MARCH 1967

